[1] Total PCBs /surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :46/47(Missing value :0)
Detection Frequency (sample) :46/47(Missing value :0)

Detection limit :*5.5 Quantification limit :*16

	stats
Geometric mean	84
Median	79
Maximum	2,400
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	78
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(8)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	50
Akita Pref.	4	Lake Hachiro	73
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	18
Fukushima Pref.	6	Onahama Port	120
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	74
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	130
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	150
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	150
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	360
,	12	Mouth of Riv. Sumida(Minato Ward)	1,400
Yokohama City	13	Yokohama Port	310
Kawasaki City	14	Keihin Canal, Port of Kawasaki	640
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	87
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	59
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	480
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	210
Nagano Pref.	19	Lake Suwa(center)	67
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	tr(9)
Aichi Pref.	21	Nagoya Port	360
Mie Pref.	22	Yokkaichi Port	79
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	91
Kyoto Pref.	24	Miyazu Port	tr(10)
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	480
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	420
Osaka City	27	Osaka Port	2,400
Hyogo Pref.	28	Offshore of Himeji	73
Kobe City	29	Kobe Port(center)	390
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	100
Okayama Pref.	31	Offshore of Mizushima	46
Hiroshima Pref.	32	Kure Port	160
	33	Hiroshima Bay	54
Yamaguchi Pref.	34	Tokuyama Bay	18
	35	Offshore of Ube	41
	36	Offshore of Hagi	tr(13)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	tr(11)
Kagawa Pref.	38	Takamatsu Port	580
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(7)
Kitakyushu City	40	Dokai Bay	2,200
Saga Pref.	41	Imari Bay	20
Nagasaki Pref.	42	Omura Bay	28
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	150
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	22
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(12)
Okinawa Pref.	47	Naha Port	500

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samp (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

(Note 4) nd: Not detected

(Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[1-1] Monochlorobiphenyls/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):11/47(Missing value:0)
Detection Frequency (sample):11/47(Missing value:0)

Detection limit :0.3 Quantification limit :0.7

	stats
Geometric mean	nd
Median	nd
Maximum	20
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	2.6
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	0.7
, i	12	Mouth of Riv. Sumida(Minato Ward)	0.8
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	tr(0.6)
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	20
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	13
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	tr(0.4)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	tr(0.3)
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	5.5
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	tr(0.3)
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	tr(0.3)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[1-2] Dichlorobiphenyls/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :1.1 Quantification limit :3.3

	stats
Geometric mean	12
Median	12
Maximum	290
Minimum	tr(2.3)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	14
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(2.9)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	11
Akita Pref.	4	Lake Hachiro	3.9
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	9.3
Fukushima Pref.	6	Onahama Port	23
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	13
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	38
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	27
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	20
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	28
ĺ	12	Mouth of Riv. Sumida(Minato Ward)	45
Yokohama City	13	Yokohama Port	28
Kawasaki City	14	Keihin Canal, Port of Kawasaki	26
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	9.2
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	14
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	84
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	29
Nagano Pref.	19	Lake Suwa(center)	11
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	tr(2.8)
Aichi Pref.	21	Nagoya Port	22
Mie Pref.	22	Yokkaichi Port	21
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	4.8
Kyoto Pref.	24	Miyazu Port	4.1
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	61
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	37
Osaka City	27	Osaka Port	290
Hyogo Pref.	28	Offshore of Himeji	8.3
Kobe City	29	Kobe Port(center)	13
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	14
Okayama Pref.	31	Offshore of Mizushima	8.4
Hiroshima Pref.	32	Kure Port	5.1
	33	Hiroshima Bay	4.4
Yamaguchi Pref.	34	Tokuyama Bay	3.6
	35	Offshore of Ube	6.0
	36	Offshore of Hagi	3.4
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	tr(2.3)
Kagawa Pref.	38	Takamatsu Port	16
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(2.3)
Kitakyushu City	40	Dokai Bay	53
Saga Pref.	41	Imari Bay	4.3
Nagasaki Pref.	42	Omura Bay	7.0
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	12
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	3.5
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	tr(2.4)
<u> </u>	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(2.9)
Okinawa Pref.	47	Naha Port	23

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-3] Trichlorobiphenyls/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :0.5

Quantification limit :1.5

	stats
Geometric mean	16
Median	15
Maximum	950
Minimum	tr(0.6)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	15
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	1.8
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	11
Akita Pref.	4	Lake Hachiro	4.2
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	tr(1.3)
Fukushima Pref.	6	Onahama Port	34
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	15
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	25
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	36
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	33
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	79
, and the second	12	Mouth of Riv. Sumida(Minato Ward)	310
Yokohama City	13	Yokohama Port	57
Kawasaki City	14	Keihin Canal, Port of Kawasaki	110
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	12
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	4.9
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	190
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	59
Nagano Pref.	19	Lake Suwa(center)	4.8
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	tr(1.3)
Aichi Pref.	21	Nagoya Port	62
Mie Pref.	22	Yokkaichi Port	14
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	8.2
Kyoto Pref.	24	Miyazu Port	2.0
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	100
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	100
Osaka City	27	Osaka Port	950
Hyogo Pref.	28	Offshore of Himeji	20
Kobe City	29	Kobe Port(center)	62
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	22
Okayama Pref.	31	Offshore of Mizushima	8.4
Hiroshima Pref.	32	Kure Port	16
	33	Hiroshima Bay	10
Yamaguchi Pref.	34	Tokuyama Bay	3.0
S	35	Offshore of Ube	10
	36	Offshore of Hagi	2.5
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	3.7
Kagawa Pref.	38	Takamatsu Port	130
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(1.3)
Kitakyushu City	40	Dokai Bay	290
Saga Pref.	41	Imari Bay	3.2
Nagasaki Pref.	42	Omura Bay	12
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	24
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(1.4)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	tr(0.6)
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	1.8
Okinawa Pref.	47	Naha Port	74

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samp (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-4] Tetrachlorobiphenyls/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :46/47(Missing value :0)
Detection Frequency (sample) :46/47(Missing value :0)

Detection limit :0.5 Quantification limit :1.2

	stats
Geometric mean	20
Median	21
Maximum	910
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	18
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(0.8)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	12
Akita Pref.	4	Lake Hachiro	11
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	1.4
Fukushima Pref.	6	Onahama Port	31
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	27
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	36
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	37
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	54
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	120
,	12	Mouth of Riv. Sumida(Minato Ward)	720
Yokohama City	13	Yokohama Port	120
Kawasaki City	14	Keihin Canal, Port of Kawasaki	250
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	21
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	9.0
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	150
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	92
Nagano Pref.	19	Lake Suwa(center)	16
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	2.6
Aichi Pref.	21	Nagoya Port	150
Mie Pref.	22	Yokkaichi Port	16
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	21
Kyoto Pref.	24	Miyazu Port	tr(0.9)
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	120
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	140
Osaka City	27	Osaka Port	720
Hyogo Pref.	28	Offshore of Himeji	21
Kobe City	29	Kobe Port(center)	130
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	27
Okayama Pref.	31	Offshore of Mizushima	13
Hiroshima Pref.	32	Kure Port	34
	33	Hiroshima Bay	14
Yamaguchi Pref.	34	Tokuyama Bay	2.5
	35	Offshore of Ube	12
	36	Offshore of Hagi	1.2
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	2.3
Kagawa Pref.	38	Takamatsu Port	240
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(0.9)
Kitakyushu City	40	Dokai Bay	910
Saga Pref.	41	Imari Bay	4.8
Nagasaki Pref.	42	Omura Bay	4.9
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	42
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	2.1
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	1.9
Okinawa Pref.	47	Naha Port	120

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samp (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-4-1] 3,3',4,4'-Tetrachlorobiphenyl (#77)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):24/47(Missing value:0)
Detection Frequency (sample):24/47(Missing value:0)

Detection limit :0.4 Quantification limit :1.1

	stats
Geometric mean	tr(0.5)
Median	tr(0.5)
Maximum	9.0
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(0.5)
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(0.5)
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(0.6)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(0.7)
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(0.5)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	tr(0.7)
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	3.2
	12	Mouth of Riv. Sumida(Minato Ward)	7.6
Yokohama City	13	Yokohama Port	1.2
Kawasaki City	14	Keihin Canal, Port of Kawasaki	2.7
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	tr(0.5)
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	1.4
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	1.5
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	tr(0.5)
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	2.0
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	1.1
Osaka City	27	Osaka Port	6.4
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	1.7
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	tr(0.5)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	1.4
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	2.9
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	9.0
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	tr(1.0)
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	1.1

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sampl (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-4-2] 3,4,4',5-Tetrachlorobiphenyl (#81)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :0/47(Missing value :0)
Detection Frequency (sample) :0/47(Missing value :0)

Detection limit :0.5

Quantification limit :1.2

	stats
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
,	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

[1-5] Pentachlorobiphenyls/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :0.4 Quantification limit :1.1

	stats
Geometric mean	20
Median	21
Maximum	790
Minimum	2.0

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	20
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	2.0
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	10
Akita Pref.	4	Lake Hachiro	33
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	5.7
Fukushima Pref.	6	Onahama Port	21
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	14
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	20
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	32
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	30
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	83
, F	12	Mouth of Riv. Sumida(Minato Ward)	260
Yokohama City	13	Yokohama Port	61
Kawasaki City	14	Keihin Canal, Port of Kawasaki	170
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	30
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	9.1
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	33
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	23
Nagano Pref.	19	Lake Suwa(center)	23
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	2.3
Aichi Pref.	21	Nagoya Port	94
Mie Pref.	22	Yokkaichi Port	17
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	35
Kyoto Pref.	24	Miyazu Port	2.3
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	130
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	82
Osaka City	27	Osaka Port	280
Hyogo Pref.	28	Offshore of Himeji	16
Kobe City	29	Kobe Port(center)	100
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	27
Okayama Pref.	31	Offshore of Mizushima	7.6
Hiroshima Pref.	32	Kure Port	46
	33	Hiroshima Bay	16
Yamaguchi Pref.	34	Tokuyama Bay	3.4
3	35	Offshore of Ube	7.3
	36	Offshore of Hagi	2.3
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	2.5
Kagawa Pref.	38	Takamatsu Port	110
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	2.6
Kitakyushu City	40	Dokai Bay	790
Saga Pref.	41	Imari Bay	4.5
Nagasaki Pref.	42	Omura Bay	2.7
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	45
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	8.5
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	2.0
5	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	3.9
Okinawa Pref.	47	Naha Port	90

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

[1-5-1] 2,3,3',4,4'-Pentachlorobiphenyl (#105)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):37/47(Missing value:0) Detection Frequency (sample):37/47(Missing value:0)

Detection limit :0.4 Quantification limit :0.9

	stats
Geometric mean	1.2
Median	1.2
Maximum	78
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1.5
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(0.6)
Akita Pref.	4	Lake Hachiro	2.0
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	tr(0.4)
Fukushima Pref.	6	Onahama Port	1.6
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	tr(0.7)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	1.8
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	2.0
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	1.8
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	2.7
	12	Mouth of Riv. Sumida(Minato Ward)	10
Yokohama City	13	Yokohama Port	2.7
Kawasaki City	14	Keihin Canal, Port of Kawasaki	8.2
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	2.0
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(0.7)
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	2.2
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	1.0
Nagano Pref.	19	Lake Suwa(center)	1.2
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	4.0
Mie Pref.	22	Yokkaichi Port	tr(0.6)
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	2.1
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	6.3
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	4.6
Osaka City	27	Osaka Port	11
Hyogo Pref.	28	Offshore of Himeji	tr(0.8)
Kobe City	29	Kobe Port(center)	3.3
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	1.6
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	1.1
	33	Hiroshima Bay	tr(0.8)
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	tr(0.4)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	7.7
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	78
Saga Pref.	41	Imari Bay	tr(0.4)
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	3.3
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(0.8)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(0.5)
Okinawa Pref.	47	Naha Port	2.4

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-5-2] 2,3,4,4',5-Pentachlorobiphenyl (#114)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :6/47(Missing value :0)
Detection Frequency (sample) :6/47(Missing value :0)

Detection limit :0.4 Quantification limit :1.1

	stats
Geometric mean	nd
Median	nd
Maximum	3.6
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
,	12	Mouth of Riv. Sumida(Minato Ward)	tr(0.5)
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	tr(0.5)
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	tr(0.5)
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	tr(0.5)
Osaka City	27	Osaka Port	tr(0.6)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
Ü	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	3.6
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
Ĭ	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-5-3] 2,3',4,4'-5-Pentachlorobiphenyl (#118)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :47/47(Missing value :0)

Detection Frequency (sample):47/47(Missing value:0)

Detection limit :0.3 Quantification limit :0.7

	stats
Geometric mean	3.0
Median	2.7
Maximum	110
Minimum	tr(0.4)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	3.4
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(0.5)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	2.0
Akita Pref.	4	Lake Hachiro	6.1
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	1.1
Fukushima Pref.	6	Onahama Port	3.6
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	1.6
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	2.6
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	4.6
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	3.7
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	6.3
	12	Mouth of Riv. Sumida(Minato Ward)	22
Yokohama City	13	Yokohama Port	6.9
Kawasaki City	14	Keihin Canal, Port of Kawasaki	24
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	5.2
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	1.5
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	2.8
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	2.6
Nagano Pref.	19	Lake Suwa(center)	2.7
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	0.7
Aichi Pref.	21	Nagoya Port	11
Mie Pref.	22	Yokkaichi Port	1.5
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	5.7
Kyoto Pref.	24	Miyazu Port	0.7
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	23
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	6.2
Osaka City	27	Osaka Port	18
Hyogo Pref.	28	Offshore of Himeji	2.3
Kobe City	29	Kobe Port(center)	11
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	3.8
Okayama Pref.	31	Offshore of Mizushima	1.4
Hiroshima Pref.	32	Kure Port	4.5
	33	Hiroshima Bay	2.7
Yamaguchi Pref.	34	Tokuyama Bay	0.8
	35	Offshore of Ube	1.2
	36	Offshore of Hagi	tr(0.4)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	tr(0.6)
Kagawa Pref.	38	Takamatsu Port	18
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	0.7
Kitakyushu City	40	Dokai Bay	110
Saga Pref.	41	Imari Bay	0.9
Nagasaki Pref.	42	Omura Bay	tr(0.5)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	7.5
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	1.8
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	0.7
Ī	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	1.1
Okinawa Pref.	47	Naha Port	7.6

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-5-4] 2',3,4,4',5-Pentachlorobiphenyl (#123)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :11/47(Missing value :0) Detection Frequency (sample) :11/47(Missing value :0)

Detection limit :0.2 Quantification limit :0.5

	stats
Geometric mean	nd
Median	nd
Maximum	3.9
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	tr(0.3)
-	12	Mouth of Riv. Sumida(Minato Ward)	0.6
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	0.5
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	tr(0.3)
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	0.5
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	tr(0.3)
Osaka City	27	Osaka Port	0.8
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	tr(0.2)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
Timosimia Tier.	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
- amagaem 11en	35	Offshore of Ube	nd
_	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	0.5
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	3.9
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	tr(0.2)
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
Tagosiiiia i ici.	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-5-5] 3,3',4,4',5-Pentachlorobiphenyl (#126)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :1/47(Missing value :0)
Detection Frequency (sample) :1/47(Missing value :0)

Detection limit :0.3 Quantification limit :0.8

	stats
Geometric mean	nd
Median	nd
Maximum	1.0
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
_	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	1.0
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
ļ ,	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd: Not detected

[1-6] Hexachlorobiphenyls/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :41/47(Missing value :0)
Detection Frequency (sample) :41/47(Missing value :0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	8
Median	8
Maximum	130
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	8
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	5
Akita Pref.	4	Lake Hachiro	19
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	6
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	5
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	8
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	17
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	14
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	41
-	12	Mouth of Riv. Sumida(Minato Ward)	82
Yokohama City	13	Yokohama Port	31
Kawasaki City	14	Keihin Canal, Port of Kawasaki	66
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	13
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(2)
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	16
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	5
Nagano Pref.	19	Lake Suwa(center)	11
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	31
Mie Pref.	22	Yokkaichi Port	8
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	20
Kyoto Pref.	24	Miyazu Port	tr(1)
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	61
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	49
Osaka City	27	Osaka Port	130
Hyogo Pref.	28	Offshore of Himeji	7
Kobe City	29	Kobe Port(center)	65
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	12
Okayama Pref.	31	Offshore of Mizushima	6
Hiroshima Pref.	32	Kure Port	44
Timosimia Tier.	33	Hiroshima Bay	9
Yamaguchi Pref.	34	Tokuyama Bay	4
- amagaem 11en	35	Offshore of Ube	4
_	36	Offshore of Hagi	tr(1)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	64
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	120
Saga Pref.	41	Imari Bay	tr(2)
Nagasaki Pref.	42	Omura Bay	tr(1)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	23
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	5
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
Tagosiiiia i ici.	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(2)
Okinawa Pref.	47	Naha Port	120

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-6-1] 2,3,3',4,4',5-Hexachlorobiphenyl (#156)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :25/47(Missing value :0)
Detection Frequency (sample) :25/47(Missing value :0)

Detection limit :0.3 Quantification limit :0.8

	stats
Geometric mean	tr(0.4)
Median	tr(0.3)
Maximum	2.7
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(0.5)
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(0.3)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(0.5)
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(0.7)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	tr(0.5)
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	0.8
ĺ	12	Mouth of Riv. Sumida(Minato Ward)	1.7
Yokohama City	13	Yokohama Port	tr(0.5)
Kawasaki City	14	Keihin Canal, Port of Kawasaki	1.5
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	tr(0.6)
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	tr(0.5)
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(0.3)
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	tr(0.7)
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	tr(0.7)
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	1.9
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	1.3
Osaka City	27	Osaka Port	2.7
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	1.0
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	tr(0.5)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	tr(0.4)
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
Ī	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	1.9
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	2.0
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	0.9
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(0.3)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	1.3

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-6-2] 2,3,3',4,4',5'-Hexachlorobiphenyl (#157)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):11/47(Missing value:0)
Detection Frequency (sample):11/47(Missing value:0)

Detection limit :0.2 Quantification limit :0.5

	stats
Geometric mean	nd
Median	nd
Maximum	0.7
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(0.2)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	tr(0.3)
	12	Mouth of Riv. Sumida(Minato Ward)	tr(0.4)
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	tr(0.4)
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	0.6
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	tr(0.4)
Osaka City	27	Osaka Port	0.7
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	tr(0.2)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	0.5
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(0.4)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	tr(0.2)
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[1-6-3] 2,3',4,4',5,5'-Hexachlorobiphenyl (#167)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :6/47(Missing value :0)
Detection Frequency (sample) :6/47(Missing value :0)

Detection limit :0.8 Quantification limit :1.9

	stats
Geometric mean	nd
Median	nd
Maximum	tr(1.0)
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
_	12	Mouth of Riv. Sumida(Minato Ward)	tr(0.8)
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	tr(0.8)
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	tr(0.9)
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	tr(1.0)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	tr(0.9)
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(1.0)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
-	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[1-6-4] 3,3',4,4',5,5'-Hexachlorobiphenyl (#169)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :0/47(Missing value :0)
Detection Frequency (sample) :0/47(Missing value :0)

Detection limit :0.5 Quantification limit :1.2

	stats
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
-	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
1250011111111 1 101.	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

[1-7] Heptachlorobiphenyls/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):35/47(Missing value:0) Detection Frequency (sample):35/47(Missing value:0)

Detection limit :0.6 Quantification limit :1.7

	stats
Geometric mean	2.0
Median	tr(1.6)
Maximum	58
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(1.0)
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(1.5)
Akita Pref.	4	Lake Hachiro	tr(1.6)
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(1.0)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(1.0)
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	3.0
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	3.1
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	8.8
	12	Mouth of Riv. Sumida(Minato Ward)	16
Yokohama City	13	Yokohama Port	9.6
Kawasaki City	14	Keihin Canal, Port of Kawasaki	15
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	2.2
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	5.9
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	tr(0.9)
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	4.7
Mie Pref.	22	Yokkaichi Port	2.7
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	1.8
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	9.4
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	10
Osaka City	27	Osaka Port	25
Hyogo Pref.	28	Offshore of Himeji	tr(0.8)
Kobe City	29	Kobe Port(center)	17
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	2.0
Okayama Pref.	31	Offshore of Mizushima	2.1
Hiroshima Pref.	32	Kure Port	15
	33	Hiroshima Bay	tr(1.1)
Yamaguchi Pref.	34	Tokuyama Bay	tr(1.0)
	35	Offshore of Ube	2.1
	36	Offshore of Hagi	tr(1.5)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	15
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	34
Saga Pref.	41	Imari Bay	tr(1.0)
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	4.4
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(1.0)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	58

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[1-7-1] 2,2',3,3',4,4',5-Heptachlorobiphenyl (#170)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :20/47(Missing value :0)
Detection Frequency (sample) :20/47(Missing value :0)

Detection limit :0.6 Quantification limit :1.6

	stats
Geometric mean	nd
Median	nd
Maximum	6.2
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(0.8)
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(0.8)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	tr(0.7)
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	tr(1.4)
, <u> </u>	12	Mouth of Riv. Sumida(Minato Ward)	2.1
Yokohama City	13	Yokohama Port	tr(1.2)
Kawasaki City	14	Keihin Canal, Port of Kawasaki	1.9
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	tr(0.7)
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	tr(0.8)
Mie Pref.	22	Yokkaichi Port	tr(0.6)
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	tr(0.6)
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	2.0
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	1.7
Osaka City	27	Osaka Port	4.2
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	2.2
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	1.6
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	2.1
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	3.2
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	tr(1.0)
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	6.2

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[1-7-2] 2,2',3,4,4',5,5'-Heptachlorobiphenyl (#180)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):34/47(Missing value:0)
Detection Frequency (sample):34/47(Missing value:0)

Detection limit :0.6 Quantification limit :1.7

	stats
Geometric mean	tr(1.2)
Median	tr(1.1)
Maximum	22
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(1.0)
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(0.8)
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(1.0)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(1.0)
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(1.6)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	tr(1.5)
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	2.8
	12	Mouth of Riv. Sumida(Minato Ward)	4.9
Yokohama City	13	Yokohama Port	3.7
Kawasaki City	14	Keihin Canal, Port of Kawasaki	5.6
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	tr(1.5)
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	2.4
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	tr(0.9)
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	2.2
Mie Pref.	22	Yokkaichi Port	tr(1.5)
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	tr(1.2)
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	3.8
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	3.8
Osaka City	27	Osaka Port	8.6
Hyogo Pref.	28	Offshore of Himeji	tr(0.8)
Kobe City	29	Kobe Port(center)	6.7
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	tr(1.3)
Okayama Pref.	31	Offshore of Mizushima	tr(1.1)
Hiroshima Pref.	32	Kure Port	5.8
	33	Hiroshima Bay	tr(1.1)
Yamaguchi Pref.	34	Tokuyama Bay	tr(1.0)
	35	Offshore of Ube	tr(1.1)
	36	Offshore of Hagi	tr(0.7)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	4.9
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	11
Saga Pref.	41	Imari Bay	tr(1.0)
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	2.3
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(1.0)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	22

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[1-7-3] 2,3,3',4,4',5,5'-Heptachlorobiphenyl (#189)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :0/47(Missing value :0)

Detection Frequency (sample):0/47(Missing value:0)

Detection limit :0.3 Quantification limit :0.8

	stats
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

[1-8] Octachlorobiphenyls/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):12/47(Missing value:0)
Detection Frequency (sample):12/47(Missing value:0)

Detection limit :0.3 Quantification limit :0.9

	stats
Geometric mean	nd
Median	nd
Maximum	9.7
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	1.4
	12	Mouth of Riv. Sumida(Minato Ward)	2.2
Yokohama City	13	Yokohama Port	1.4
Kawasaki City	14	Keihin Canal, Port of Kawasaki	1.7
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	tr(0.4)
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagova Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	1.5
Osaka City	27	Osaka Port	4.6
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	2.0
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	1.7
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	5.8
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	tr(0.6)
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
3	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	9.7

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[1-9] Nonachlorobiphenyls/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :4/47(Missing value :0)

Detection Frequency (sample) :4/47(Missing value :0)

Detection limit :0.3 Quantification limit :0.8

	stats
Geometric mean	nd
Median	nd
Maximum	1.2
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	tr(0.4)
, <u> </u>	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	tr(0.5)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
8	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	1.2
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
9	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	tr(0.5)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[1-10] Decachlorobiphenyl/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :6/47(Missing value :0)
Detection Frequency (sample) :6/47(Missing value :0)

Detection limit :0.5 Quantification limit :1.3

	stats
Geometric mean	nd
Median	nd
Maximum	27
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1.3
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(0.9)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	tr(0.8)
	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	tr(1.0)
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	tr(0.9)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	27
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[2] Hexachlorobenzene/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :47/47(Missing value :0)

Detection Frequency (sample):47/47(Missing value:0)

Detection limit :0.8 Quantification limit :2.1

	stats
Geometric mean	12
Median	10
Maximum	180
Minimum	2.9

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	41
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	9.1
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	6.9
Akita Pref.	4	Lake Hachiro	10
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	10
Fukushima Pref.	6	Onahama Port	99
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	110
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	9.7
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	38
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	11
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	150
	12	Mouth of Riv. Sumida(Minato Ward)	14
Yokohama City	13	Yokohama Port	16
Kawasaki City	14	Keihin Canal, Port of Kawasaki	11
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	20
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	14
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	47
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	9.0
Nagano Pref.	19	Lake Suwa(center)	34
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	12
Aichi Pref.	21	Nagoya Port	7.3
Mie Pref.	22	Yokkaichi Port	10
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	13
Kyoto Pref.	24	Miyazu Port	4.1
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	18
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	16
Osaka City	27	Osaka Port	13
Hyogo Pref.	28	Offshore of Himeji	4.0
Kobe City	29	Kobe Port(center)	5.7
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	8.8
Okayama Pref.	31	Offshore of Mizushima	5.5
Hiroshima Pref.	32	Kure Port	2.9
	33	Hiroshima Bay	3.2
Yamaguchi Pref.	34	Tokuyama Bay	5.2
	35	Offshore of Ube	5.5
	36	Offshore of Hagi	4.9
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	6.3
Kagawa Pref.	38	Takamatsu Port	6.5
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	4.3
Kitakyushu City	40	Dokai Bay	110
Saga Pref.	41	Imari Bay	4.3
Nagasaki Pref.	42	Omura Bay	3.6
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	13
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	180
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	7.4
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	9.6
Okinawa Pref.	47	Naha Port	3.7

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

[7]Chlordanes/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :47/47(Missing value :0)

Detection Frequency (sample):47/47(Missing value:0)

Detection limit :*5.6 Quantification limit :*14

	stats
Geometric mean	53
Median	54
Maximum	530
Minimum	tr(8)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	98
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(9)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(8)
Akita Pref.	4	Lake Hachiro	tr(12)
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	tr(11)
Fukushima Pref.	6	Onahama Port	26
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	59
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	150
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	210
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	220
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	160
,	12	Mouth of Riv. Sumida(Minato Ward)	110
Yokohama City	13	Yokohama Port	120
Kawasaki City	14	Keihin Canal, Port of Kawasaki	59
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	54
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	19
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	270
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	40
Nagano Pref.	19	Lake Suwa(center)	26
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	21
Aichi Pref.	21	Nagoya Port	82
Mie Pref.	22	Yokkaichi Port	75
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	30
Kyoto Pref.	24	Miyazu Port	15
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	280
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	530
Osaka City	27	Osaka Port	160
Hyogo Pref.	28	Offshore of Himeji	28
Kobe City	29	Kobe Port(center)	73
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	82
Okayama Pref.	31	Offshore of Mizushima	18
Hiroshima Pref.	32	Kure Port	20
	33	Hiroshima Bay	33
Yamaguchi Pref.	34	Tokuyama Bay	38
S	35	Offshore of Ube	34
	36	Offshore of Hagi	tr(8)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	18
Kagawa Pref.	38	Takamatsu Port	170
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	30
Kitakyushu City	40	Dokai Bay	110
Saga Pref.	41	Imari Bay	23
Nagasaki Pref.	42	Omura Bay	tr(12)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	240
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	110
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	52
5	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	130
Okinawa Pref.	47	Naha Port	330

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

(Note 4) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[7-1]cis-Chlordane/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :1 Quantification limit :2

	stats
Geometric mean	19
Median	19
Maximum	210
Minimum	2

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	21
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	3
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	3
Akita Pref.	4	Lake Hachiro	4
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	4
Fukushima Pref.	6	Onahama Port	10
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	23
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	54
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	79
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	81
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	59
	12	Mouth of Riv. Sumida(Minato Ward)	44
Yokohama City	13	Yokohama Port	53
Kawasaki City	14	Keihin Canal, Port of Kawasaki	25
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	18
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	6
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	98
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	15
Nagano Pref.	19	Lake Suwa(center)	10
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	8
Aichi Pref.	21	Nagoya Port	32
Mie Pref.	22	Yokkaichi Port	31
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	12
Kyoto Pref.	24	Miyazu Port	5
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	110
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	210
Osaka City	27	Osaka Port	64
Hyogo Pref.	28	Offshore of Himeji	11
Kobe City	29	Kobe Port(center)	31
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	31
Okayama Pref.	31	Offshore of Mizushima	7
Hiroshima Pref.	32	Kure Port	8
	33	Hiroshima Bay	12
Yamaguchi Pref.	34	Tokuyama Bay	13
	35	Offshore of Ube	12
	36	Offshore of Hagi	2
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	7
Kagawa Pref.	38	Takamatsu Port	59
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	11
Kitakyushu City	40	Dokai Bay	42
Saga Pref.	41	Imari Bay	8
Nagasaki Pref.	42	Omura Bay	4
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	90
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	33
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	19
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	42
Okinawa Pref.	47	Naha Port	120

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

[7-2]trans-Chlordane/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	15
Median	15
Maximum	150
Minimum	tr(2)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	52
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(2)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(2)
Akita Pref.	4	Lake Hachiro	4
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	3
Fukushima Pref.	6	Onahama Port	7
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	17
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	42
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	54
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	69
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	44
	12	Mouth of Riv. Sumida(Minato Ward)	32
Yokohama City	13	Yokohama Port	33
Kawasaki City	14	Keihin Canal, Port of Kawasaki	16
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	15
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	5
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	89
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	11
Nagano Pref.	19	Lake Suwa(center)	7
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	5
Aichi Pref.	21	Nagoya Port	22
Mie Pref.	22	Yokkaichi Port	20
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	8
Kyoto Pref.	24	Miyazu Port	5
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	79
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	150
Osaka City	27	Osaka Port	43
Hyogo Pref.	28	Offshore of Himeji	8
Kobe City	29	Kobe Port(center)	21
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	21
Okayama Pref.	31	Offshore of Mizushima	5
Hiroshima Pref.	32	Kure Port	5
	33	Hiroshima Bay	9
Yamaguchi Pref.	34	Tokuyama Bay	12
	35	Offshore of Ube	10
	36	Offshore of Hagi	3
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	5
Kagawa Pref.	38	Takamatsu Port	42
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	9
Kitakyushu City	40	Dokai Bay	32
Saga Pref.	41	Imari Bay	6
Nagasaki Pref.	42	Omura Bay	4
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	69
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	24
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	14
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	32
Okinawa Pref.	47	Naha Port	97

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[7-3]Oxychlordane/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):19/47(Missing value:0)
Detection Frequency (sample):19/47(Missing value:0)

Detection limit :2 Quantification limit :4

	stats
Geometric mean	nd
Median	nd
Maximum	12
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	6
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	5
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	5
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	4
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	tr(3)
_	12	Mouth of Riv. Sumida(Minato Ward)	tr(3)
Yokohama City	13	Yokohama Port	tr(3)
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	tr(2)
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	5
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	6
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	12
Osaka City	27	Osaka Port	tr(4)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	tr(2)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	5
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(3)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	5
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	4
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
-	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	4
Okinawa Pref.	47	Naha Port	6

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[7-4]cis-Nonachlor/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :0.6 Quantification limit :1.5

	stats
Geometric mean	4.6
Median	4.6
Maximum	36
Minimum	tr(0.6)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	3.8
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(0.6)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(0.8)
Akita Pref.	4	Lake Hachiro	1.5
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	tr(0.8)
Fukushima Pref.	6	Onahama Port	2.4
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	5.0
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	9.3
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	16
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	16
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	14
	12	Mouth of Riv. Sumida(Minato Ward)	10
Yokohama City	13	Yokohama Port	9.8
Kawasaki City	14	Keihin Canal, Port of Kawasaki	4.7
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	4.6
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(1.4)
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	16
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	3.0
Nagano Pref.	19	Lake Suwa(center)	2.1
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	2.0
Aichi Pref.	21	Nagoya Port	7.6
Mie Pref.	22	Yokkaichi Port	5.7
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	3.5
Kyoto Pref.	24	Miyazu Port	tr(1.3)
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	16
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	36
Osaka City	27	Osaka Port	13
Hyogo Pref.	28	Offshore of Himeji	2.5
Kobe City	29	Kobe Port(center)	5.6
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	6.8
Okayama Pref.	31	Offshore of Mizushima	1.6
Hiroshima Pref.	32	Kure Port	2.4
	33	Hiroshima Bay	3.5
Yamaguchi Pref.	34	Tokuyama Bay	3.0
	35	Offshore of Ube	3.5
	36	Offshore of Hagi	tr(0.6)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	tr(1.4)
Kagawa Pref.	38	Takamatsu Port	19
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	2.4
Kitakyushu City	40	Dokai Bay	9.6
Saga Pref.	41	Imari Bay	2.8
Nagasaki Pref.	42	Omura Bay	tr(1.4)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	23
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	13
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	5.2
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	14
Okinawa Pref.	47	Naha Port	27

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[7-5]trans-Nonachlor/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	13
Median	14
Maximum	120
Minimum	tr(2)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	15
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(3)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(2)
Akita Pref.	4	Lake Hachiro	3
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	tr(3)
Fukushima Pref.	6	Onahama Port	7
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	14
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	41
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	56
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	49
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	37
,	12	Mouth of Riv. Sumida(Minato Ward)	25
Yokohama City	13	Yokohama Port	24
Kawasaki City	14	Keihin Canal, Port of Kawasaki	13
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	14
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	6
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	65
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	11
Nagano Pref.	19	Lake Suwa(center)	6
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	6
Aichi Pref.	21	Nagoya Port	20
Mie Pref.	22	Yokkaichi Port	18
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	7
Kyoto Pref.	24	Miyazu Port	4
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	64
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	120
Osaka City	27	Osaka Port	36
Hyogo Pref.	28	Offshore of Himeji	7
Kobe City	29	Kobe Port(center)	15
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	21
Okayama Pref.	31	Offshore of Mizushima	4
Hiroshima Pref.	32	Kure Port	5
	33	Hiroshima Bay	9
Yamaguchi Pref.	34	Tokuyama Bay	10
5	35	Offshore of Ube	8
	36	Offshore of Hagi	tr(2)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	5
Kagawa Pref.	38	Takamatsu Port	43
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	8
Kitakyushu City	40	Dokai Bay	24
Saga Pref.	41	Imari Bay	6
Nagasaki Pref.	42	Omura Bay	tr(3)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	56
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	33
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	14
~ <u> </u>	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	37
Okinawa Pref.	47	Naha Port	76

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[8]Heptachlors/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :32/47(Missing value :0) Detection Frequency (sample) :32/47(Missing value :0)

Detection limit :*2.5 Quantification limit :*6.9

	stats
Geometric mean	tr(4)
Median	tr(4)
Maximum	88
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	88
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(3)
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	23
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	12
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	20
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	20
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	21
, l	12	Mouth of Riv. Sumida(Minato Ward)	22
Yokohama City	13	Yokohama Port	16
Kawasaki City	14	Keihin Canal, Port of Kawasaki	7
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	tr(4)
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(3)
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	17
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(3)
Nagano Pref.	19	Lake Suwa(center)	tr(3)
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	tr(6)
Mie Pref.	22	Yokkaichi Port	8
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	tr(3)
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	22
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	52
Osaka City	27	Osaka Port	11
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	8
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	tr(3)
Okayama Pref.	31	Offshore of Mizushima	tr(3)
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	tr(3)
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	11
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	12
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	24
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(6)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	tr(4)
Ŭ	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	12
Okinawa Pref.	47	Naha Port	10

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

(Note 4) nd: Not detected

(Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[8-1]Heptachlor/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :2/47(Missing value :0)
Detection Frequency (sample) :2/47(Missing value :0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	nd
Median	nd
Maximum	6
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	6
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(1)
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bav	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

[8-2]cis-Heptachlor epoxide/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):46/47(Missing value:0)
Detection Frequency (sample):46/47(Missing value:0)

Detection limit :0.6 Quantification limit :1.6

	stats
Geometric mean	4.7
Median	3.5
Maximum	83
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	83
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(0.8)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(1.2)
Akita Pref.	4	Lake Hachiro	1.6
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	2.4
Fukushima Pref.	6	Onahama Port	1.6
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	23
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	12
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	20
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	20
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	21
	12	Mouth of Riv. Sumida(Minato Ward)	22
Yokohama City	13	Yokohama Port	16
Kawasaki City	14	Keihin Canal, Port of Kawasaki	6.6
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	4.5
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	3.2
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	17
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	3.1
Nagano Pref.	19	Lake Suwa(center)	3.2
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	tr(1.0)
Aichi Pref.	21	Nagoya Port	5.7
Mie Pref.	22	Yokkaichi Port	8.3
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	2.8
Kyoto Pref.	24	Miyazu Port	tr(0.6)
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	22
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	52
Osaka City	27	Osaka Port	11
Hyogo Pref.	28	Offshore of Himeji	1.7
Kobe City	29	Kobe Port(center)	7.5
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	3.4
Okayama Pref.	31	Offshore of Mizushima	2.8
Hiroshima Pref.	32	Kure Port	tr(1.4)
	33	Hiroshima Bay	2.7
Yamaguchi Pref.	34	Tokuyama Bay	tr(1.0)
	35	Offshore of Ube	1.7
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	2.0
Kagawa Pref.	38	Takamatsu Port	11
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(1.3)
Kitakyushu City	40	Dokai Bay	12
Saga Pref.	41	Imari Bay	1.9
Nagasaki Pref.	42	Omura Bay	tr(1.2)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	24
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	5.5
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	3.5
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	12
Okinawa Pref.	47	Naha Port	9.6

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[8-3]trans-Heptachlor epoxide/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :0/47(Missing value :0)
Detection Frequency (sample) :0/47(Missing value :0)

Detection limit :0.9 Quantification limit :2.3

	stats
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
-	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
_	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
1250011111111 1 101.	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

[11] HCHs (Hexachlorohexanes)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :*2.0 Quantification limit :*5.1

	stats
Geometric mean	190
Median	180
Maximum	2,200
Minimum	23

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	900
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	58
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	150
Akita Pref.	4	Lake Hachiro	750
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	170
Fukushima Pref.	6	Onahama Port	610
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	320
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	160
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	200
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	210
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	300
Í	12	Mouth of Riv. Sumida(Minato Ward)	220
Yokohama City	13	Yokohama Port	210
Kawasaki City	14	Keihin Canal, Port of Kawasaki	130
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	280
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	43
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	300
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	56
Nagano Pref.	19	Lake Suwa(center)	200
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	59
Aichi Pref.	21	Nagoya Port	230
Mie Pref.	22	Yokkaichi Port	500
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	560
Kyoto Pref.	24	Miyazu Port	87
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	410
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	1,200
Osaka City	27	Osaka Port	1,400
Hyogo Pref.	28	Offshore of Himeji	180
Kobe City	29	Kobe Port(center)	900
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	180
Okayama Pref.	31	Offshore of Mizushima	150
Hiroshima Pref.	32	Kure Port	76
	33	Hiroshima Bay	90
Yamaguchi Pref.	34	Tokuyama Bay	86
	35	Offshore of Ube	160
	36	Offshore of Hagi	39
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	50
Kagawa Pref.	38	Takamatsu Port	520
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	23
Kitakyushu City	40	Dokai Bay	2,200
Saga Pref.	41	Imari Bay	110
Nagasaki Pref.	42	Omura Bay	48
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	290
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	66
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	180
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	170
Okinawa Pref.	47	Naha Port	54

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[11-1] α-HCH• surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :47/47(Missing value :0)

Detection Frequency (sample):47/47(Missing value:0)

Detection limit :0.4 Quantification limit :0.9

	stats
Geometric mean	47
Median	45
Maximum	680
Minimum	3.7

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	190
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	8.3
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	45
Akita Pref.	4	Lake Hachiro	200
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	36
Fukushima Pref.	6	Onahama Port	370
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	97
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	33
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	49
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	34
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	78
	12	Mouth of Riv. Sumida(Minato Ward)	61
Yokohama City	13	Yokohama Port	45
Kawasaki City	14	Keihin Canal, Port of Kawasaki	28
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	120
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	12
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	48
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	13
Nagano Pref.	19	Lake Suwa(center)	39
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	13
Aichi Pref.	21	Nagova Port	64
Mie Pref.	22	Yokkaichi Port	180
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	150
Kyoto Pref.	24	Miyazu Port	25
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	83
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	330
Osaka City	27	Osaka Port	680
Hyogo Pref.	28	Offshore of Himeji	35
Kobe City	29	Kobe Port(center)	440
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	69
Okayama Pref.	31	Offshore of Mizushima	61
Hiroshima Pref.	32	Kure Port	18
	33	Hiroshima Bay	19
Yamaguchi Pref.	34	Tokuyama Bay	21
	35	Offshore of Ube	69
	36	Offshore of Hagi	3.7
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	22
Kagawa Pref.	38	Takamatsu Port	180
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	7.4
Kitakyushu City	40	Dokai Bay	500
Saga Pref.	41	Imari Bay	25
Nagasaki Pref.	42	Omura Bay	10
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	64
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	10
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	46
6	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	12
Okinawa Pref.	47	Naha Port	12

[11-2] β-HCH• surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :0.7 Quantification limit :1.8

	stats
Geometric mean	100
Median	110
Maximum	830
Minimum	12

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	620
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	19
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	90
Akita Pref.	4	Lake Hachiro	460
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	110
Fukushima Pref.	6	Onahama Port	180
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	180
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	75
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	120
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	140
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	190
ĺ	12	Mouth of Riv. Sumida(Minato Ward)	130
Yokohama City	13	Yokohama Port	140
Kawasaki City	14	Keihin Canal, Port of Kawasaki	84
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	110
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	24
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	180
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	16
Nagano Pref.	19	Lake Suwa(center)	130
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	35
Aichi Pref.	21	Nagoya Port	140
Mie Pref.	22	Yokkaichi Port	180
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	350
Kyoto Pref.	24	Miyazu Port	51
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	260
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	640
Osaka City	27	Osaka Port	490
Hyogo Pref.	28	Offshore of Himeji	110
Kobe City	29	Kobe Port(center)	290
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	90
Okayama Pref.	31	Offshore of Mizushima	61
Hiroshima Pref.	32	Kure Port	51
	33	Hiroshima Bay	62
Yamaguchi Pref.	34	Tokuyama Bay	60
	35	Offshore of Ube	71
	36	Offshore of Hagi	33
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	20
Kagawa Pref.	38	Takamatsu Port	200
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	12
Kitakyushu City	40	Dokai Bay	830
Saga Pref.	41	Imari Bay	72
Nagasaki Pref.	42	Omura Bay	34
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	190
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	46
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	110
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	140
Okinawa Pref.	47	Naha Port	36

[11-3] γ-HCH(synonym:Lindane)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :0.5 Quantification limit :1.4

	stats
Geometric mean	17
Median	16
Maximum	190
Minimum	2.1

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	46
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	6.9
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	11
Akita Pref.	4	Lake Hachiro	44
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	8.2
Fukushima Pref.	6	Onahama Port	43
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	25
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	40
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	17
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	28
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	19
	12	Mouth of Riv. Sumida(Minato Ward)	25
Yokohama City	13	Yokohama Port	20
Kawasaki City	14	Keihin Canal, Port of Kawasaki	12
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	36
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	4.0
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	59
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	5.5
Nagano Pref.	19	Lake Suwa(center)	15
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	9.2
Aichi Pref.	21	Nagoya Port	19
Mie Pref.	22	Yokkaichi Port	88
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	37
Kyoto Pref.	24	Miyazu Port	9.0
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	50
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	190
Osaka City	27	Osaka Port	180
Hyogo Pref.	28	Offshore of Himeji	14
Kobe City	29	Kobe Port(center)	130
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	16
Okayama Pref.	31	Offshore of Mizushima	19
Hiroshima Pref.	32	Kure Port	6.4
	33	Hiroshima Bay	7.4
Yamaguchi Pref.	34	Tokuyama Bay	4.0
	35	Offshore of Ube	15
	36	Offshore of Hagi	2.1
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	5.9
Kagawa Pref.	38	Takamatsu Port	99
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	2.3
Kitakyushu City	40	Dokai Bay	190
Saga Pref.	41	Imari Bay	6.5
Nagasaki Pref.	42	Omura Bay	2.8
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	19
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	5.6
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	13
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	7.7
Okinawa Pref.	47	Naha Port	5.2

[11-4] δ-HCH• surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :0.4 Quantification limit :1.0

	stats
Geometric mean	8.2
Median	8.2
Maximum	690
Minimum	tr(0.4)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	45
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	24
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	6.6
Akita Pref.	4	Lake Hachiro	44
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	11
Fukushima Pref.	6	Onahama Port	20
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	17
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	7.6
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	11
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	4.0
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	11
	12	Mouth of Riv. Sumida(Minato Ward)	6.7
Yokohama City	13	Yokohama Port	4.8
Kawasaki City	14	Keihin Canal, Port of Kawasaki	2.4
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	12
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	3.1
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	13
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	22
Nagano Pref.	19	Lake Suwa(center)	12
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	2.2
Aichi Pref.	21	Nagoya Port	8.3
Mie Pref.	22	Yokkaichi Port	51
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	19
Kyoto Pref.	24	Miyazu Port	2.1
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	14
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	43
Osaka City	27	Osaka Port	76
Hyogo Pref.	28	Offshore of Himeji	20
Kobe City	29	Kobe Port(center)	45
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	6.6
Okayama Pref.	31	Offshore of Mizushima	5.1
Hiroshima Pref.	32	Kure Port	1.1
	33	Hiroshima Bay	1.9
Yamaguchi Pref.	34	Tokuyama Bay	1.0
	35	Offshore of Ube	4.5
	36	Offshore of Hagi	tr(0.4)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	2.2
Kagawa Pref.	38	Takamatsu Port	43
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	1.2
Kitakyushu City	40	Dokai Bay	690
Saga Pref.	41	Imari Bay	5.4
Nagasaki Pref.	42	Omura Bay	tr(0.8)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	18
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	4.0
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	8.2
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	7.2
Okinawa Pref.	47	Naha Port	tr(0.9)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam

(Note 2) Data treated as detected means detection limit value and more.

 $(Note\ 3)\ tr: detection\ limit\ value\ and\ more,\ less\ than\ Quantification\ limit\ value.$

[14] Polybromodiphenyl ethers(Br4~Br10• surface water (pg/L)

Monitored year :2017

Detection Frequency (site):41/47(Missing value:0)
Detection Frequency (sample):41/47(Missing value:0)

Detection limit :*24 Quantification limit :*66

	atata
	stats
Geometric mean	150
Median	250
Maximum	4,600
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	250
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(65)
Akita Pref.	4	Lake Hachiro	66
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	390
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	950
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	320
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	800
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	250
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	1,400
,	12	Mouth of Riv. Sumida(Minato Ward)	290
Yokohama City	13	Yokohama Port	tr(54)
Kawasaki City	14	Keihin Canal, Port of Kawasaki	130
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	890
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	170
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	420
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	73
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagova Port	1,900
Mie Pref.	22	Yokkaichi Port	270
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	74
Kyoto Pref.	24	Miyazu Port	96
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	1,000
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	4,600
Osaka City	27	Osaka Port	1,300
Hyogo Pref.	28	Offshore of Himeji	81
Kobe City	29	Kobe Port(center)	77
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	430
Okayama Pref.	31	Offshore of Mizushima	tr(48)
Hiroshima Pref.	32	Kure Port	260
	33	Hiroshima Bay	600
Yamaguchi Pref.	34	Tokuyama Bay	1,500
	35	Offshore of Ube	87
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	610
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(24)
Kitakyushu City	40	Dokai Bay	470
Saga Pref.	41	Imari Bay	tr(62)
Nagasaki Pref.	42	Omura Bay	130
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	280
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	320
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	tr(31)
6	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	370
Okinawa Pref.	47	Naha Port	210

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

(Note 4) nd: Not detected

(Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[14-1] Tetrabromodiphenyl ethers/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :44/47(Missing value :0)
Detection Frequency (sample) :44/47(Missing value :0)

Detection limit :3 Quantification limit :9

	stats
Geometric mean	tr(4)
Median	tr(4)
Maximum	12
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(6)
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(4)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(3)
Akita Pref.	4	Lake Hachiro	tr(4)
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	tr(4)
Fukushima Pref.	6	Onahama Port	tr(6)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(5)
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(6)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	tr(7)
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	tr(4)
	12	Mouth of Riv. Sumida(Minato Ward)	tr(7)
Yokohama City	13	Yokohama Port	tr(6)
Kawasaki City	14	Keihin Canal, Port of Kawasaki	tr(3)
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	tr(4)
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(3)
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	tr(8)
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	tr(3)
Aichi Pref.	21	Nagoya Port	tr(4)
Mie Pref.	22	Yokkaichi Port	tr(5)
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	tr(3)
Kyoto Pref.	24	Miyazu Port	tr(3)
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	tr(7)
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	tr(8)
Osaka City	27	Osaka Port	tr(5)
Hyogo Pref.	28	Offshore of Himeji	tr(4)
Kobe City	29	Kobe Port(center)	tr(7)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	tr(4)
Okayama Pref.	31	Offshore of Mizushima	tr(4)
Hiroshima Pref.	32	Kure Port	tr(3)
	33	Hiroshima Bay	tr(3)
Yamaguchi Pref.	34	Tokuyama Bay	tr(4)
	35	Offshore of Ube	tr(3)
	36	Offshore of Hagi	tr(5)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	tr(4)
Kagawa Pref.	38	Takamatsu Port	tr(6)
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(4)
Kitakyushu City	40	Dokai Bay	tr(6)
Saga Pref.	41	Imari Bay	tr(5)
Nagasaki Pref.	42	Omura Bay	tr(6)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	12
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(4)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	tr(3)
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(4)
Okinawa Pref.	47	Naha Port	tr(4)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-1-1] 2,2',4,4'-Tetrabromodiphenyl ether (#47)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)

Detection Frequency (sample):47/47(Missing value:0)

Detection limit :2 Quantification limit :6

	stats
Geometric mean	tr(4)
Median	tr(4)
Maximum	11
Minimum	tr(3)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	6
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(5)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(3)
Akita Pref.	4	Lake Hachiro	tr(4)
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	tr(5)
Fukushima Pref.	6	Onahama Port	6
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	tr(3)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(5)
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	7
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	7
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	tr(5)
	12	Mouth of Riv. Sumida(Minato Ward)	7
Yokohama City	13	Yokohama Port	6
Kawasaki City	14	Keihin Canal, Port of Kawasaki	tr(3)
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	tr(4)
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(3)
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	8
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(3)
Nagano Pref.	19	Lake Suwa(center)	tr(3)
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	tr(3)
Aichi Pref.	21	Nagoya Port	tr(3)
Mie Pref.	22	Yokkaichi Port	tr(5)
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	tr(3)
Kyoto Pref.	24	Miyazu Port	tr(3)
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	7
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	8
Osaka City	27	Osaka Port	6
Hyogo Pref.	28	Offshore of Himeji	tr(5)
Kobe City	29	Kobe Port(center)	7
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	tr(4)
Okayama Pref.	31	Offshore of Mizushima	tr(5)
Hiroshima Pref.	32	Kure Port	tr(3)
	33	Hiroshima Bay	tr(3)
Yamaguchi Pref.	34	Tokuyama Bay	tr(4)
	35	Offshore of Ube	tr(3)
	36	Offshore of Hagi	tr(5)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	tr(4)
Kagawa Pref.	38	Takamatsu Port	6
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(4)
Kitakyushu City	40	Dokai Bay	tr(5)
Saga Pref.	41	Imari Bay	tr(4)
Nagasaki Pref.	42	Omura Bay	tr(5)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	11
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(3)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	tr(3)
-	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(3)
Okinawa Pref.	47	Naha Port	tr(4)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[14-2] Pentabromodiphenyl ethers/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :24/47(Missing value :0)
Detection Frequency (sample) :24/47(Missing value :0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	nd
Median	tr(1)
Maximum	8
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(1)
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(1)
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	4
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(2)
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(2)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	4
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	tr(1)
	12	Mouth of Riv. Sumida(Minato Ward)	3
Yokohama City	13	Yokohama Port	tr(1)
Kawasaki City	14	Keihin Canal, Port of Kawasaki	tr(1)
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	tr(1)
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	5
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	3
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	tr(1)
Kyoto Pref.	24	Miyazu Port	tr(1)
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	tr(2)
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	3
Osaka City	27	Osaka Port	tr(1)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	8
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
_	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
- amagaem 11en	35	Offshore of Ube	tr(1)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	tr(1)
Kagawa Pref.	38	Takamatsu Port	tr(1)
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(1)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	5
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
134505111114 1 101.	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-2-1] 2,2',4,4',5-Pentabromodiphenyl ether (#99)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :40/47(Missing value :0)
Detection Frequency (sample) :40/47(Missing value :0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	tr(1)
Median	tr(1)
Maximum	6
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(2)
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(1)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(1)
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	4
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(2)
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(2)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	4
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	tr(1)
, <u> </u>	12	Mouth of Riv. Sumida(Minato Ward)	3
Yokohama City	13	Yokohama Port	tr(1)
Kawasaki City	14	Keihin Canal, Port of Kawasaki	tr(1)
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	tr(1)
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	4
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	tr(1)
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	tr(1)
Aichi Pref.	21	Nagoya Port	tr(1)
Mie Pref.	22	Yokkaichi Port	tr(1)
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	tr(1)
Kyoto Pref.	24	Miyazu Port	tr(1)
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	tr(2)
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	3
Osaka City	27	Osaka Port	tr(2)
Hyogo Pref.	28	Offshore of Himeji	tr(1)
Kobe City	29	Kobe Port(center)	6
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	tr(1)
Okayama Pref.	31	Offshore of Mizushima	tr(1)
Hiroshima Pref.	32	Kure Port	nd
Timosinina Tier.	33	Hiroshima Bay	tr(1)
Yamaguchi Pref.	34	Tokuyama Bay	tr(1)
ramagaem riei.	35	Offshore of Ube	tr(1)
-	36	Offshore of Hagi	tr(1)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	tr(1)
Kagawa Pref.	38	Takamatsu Port	tr(1)
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(1)
Kitakyushu City	40	Dokai Bay	tr(1)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	tr(1)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	4
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(1)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	tr(1)
Kagosiiiiia Fiel.	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(1)
Okinawa Pref.	47	Naha Port	tr(1)
Okiliawa Piel.	4/	Ivalia I Oit	u(1)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value.

[14-3] Hexabromodiphenyl ethers/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :1/47(Missing value :0)
Detection Frequency (sample) :1/47(Missing value :0)

Detection limit :3 Quantification limit :7

	stats
Geometric mean	nd
Median	nd
Maximum	tr(6)
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(6)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
-	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-3-1] 2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :1/47(Missing value :0)
Detection Frequency (sample) :1/47(Missing value :0)

Detection limit :3 Quantification limit :7

	stats
Geometric mean	nd
Median	nd
Maximum	tr(4)
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(4)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
_	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-3-2] 2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :2/47(Missing value :0)

Detection Frequency (sample):2/47(Missing value:0)

Detection limit :2 Quantification limit :4

	stats
Geometric mean	nd
Median	nd
Maximum	tr(2)
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(2)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	tr(2)
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
-	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-4] Heptabromodiphenyl ethers/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :1/47(Missing value :0)
Detection Frequency (sample) :1/47(Missing value :0)

Detection limit :5 Quantification limit :14

	stats
Geometric mean	nd
Median	nd
Maximum	30
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	30
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
Í	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

[14-4-1] 2,2',3,3',4,5',6'-Pentabromodiphenyl ether (#175)/surface water (pg/L) and [14-4-2] 2,2',3,4,4',5',6'-Pentabromodiphenyl ether (#183)/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :1/47(Missing value :0)
Detection Frequency (sample) :1/47(Missing value :0)

Detection limit :5 Quantification limit :14

•	stats
Geometric mean	nd
Median	nd
Maximum	30
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	30
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
ĺ	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

[14-5] Octabromodiphenyl ethers/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):22/47(Missing value:0)
Detection Frequency (sample):22/47(Missing value:0)

Detection limit :1 Quantification limit :2

	stats
Geometric mean	tr(2)
Median	nd
Maximum	33
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	8
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	7
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	5
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	33
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	2
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	19
	12	Mouth of Riv. Sumida(Minato Ward)	11
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	8
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	13
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	17
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	8
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	24
Osaka City	27	Osaka Port	10
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	2
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	2
Yamaguchi Pref.	34	Tokuyama Bay	10
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	11
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	3
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	7
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	5
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
-	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(1)
Okinawa Pref.	47	Naha Port	2

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-6] Nonabromodiphenyl ethers/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):37/47(Missing value:0) Detection Frequency (sample):37/47(Missing value:0)

Detection limit :3 Quantification limit :7

	stats
Geometric mean	17
Median	26
Maximum	460
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	26
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(4)
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	46
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	100
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	43
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	93
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	27
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	200
	12	Mouth of Riv. Sumida(Minato Ward)	43
Yokohama City	13	Yokohama Port	tr(3)
Kawasaki City	14	Keihin Canal, Port of Kawasaki	17
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	110
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	23
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	62
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	10
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	200
Mie Pref.	22	Yokkaichi Port	35
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	10
Kyoto Pref.	24	Miyazu Port	8
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	120
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	460
Osaka City	27	Osaka Port	170
Hyogo Pref.	28	Offshore of Himeji	10
Kobe City	29	Kobe Port(center)	tr(3)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	60
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	25
	33	Hiroshima Bay	70
Yamaguchi Pref.	34	Tokuyama Bay	180
	35	Offshore of Ube	tr(3)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	93
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	42
Saga Pref.	41	Imari Bay	tr(4)
Nagasaki Pref.	42	Omura Bay	15
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	39
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	47
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
-	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	32
Okinawa Pref.	47	Naha Port	28

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-7] Decabromodiphenyl ether/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :46/47(Missing value :0)

Detection Frequency (sample):46/47(Missing value:0)

Detection limit :8 Quantification limit :24

	stats
Geometric mean	150
Median	210
Maximum	4,100
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	220
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	tr(15)
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	58
Akita Pref.	4	Lake Hachiro	61
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	tr(17)
Fukushima Pref.	6	Onahama Port	330
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	840
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	270
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	630
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	210
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	1,200
	12	Mouth of Riv. Sumida(Minato Ward)	230
Yokohama City	13	Yokohama Port	44
Kawasaki City	14	Keihin Canal, Port of Kawasaki	110
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	770
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	140
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	330
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(23)
Nagano Pref.	19	Lake Suwa(center)	63
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	tr(13)
Aichi Pref.	21	Nagoya Port	1,700
Mie Pref.	22	Yokkaichi Port	230
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	60
Kyoto Pref.	24	Miyazu Port	84
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	900
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	4,100
Osaka City	27	Osaka Port	1,100
Hyogo Pref.	28	Offshore of Himeji	67
Kobe City	29	Kobe Port(center)	59
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	360
Okayama Pref.	31	Offshore of Mizushima	44
Hiroshima Pref.	32	Kure Port	230
	33	Hiroshima Bay	520
Yamaguchi Pref.	34	Tokuyama Bay	1,300
	35	Offshore of Ube	80
	36	Offshore of Hagi	tr(8)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	500
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(20)
Kitakyushu City	40	Dokai Bay	420
Saga Pref.	41	Imari Bay	53
Nagasaki Pref.	42	Omura Bay	110
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	220
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	260
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	28
~ "	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	330
Okinawa Pref.	47	Naha Port	180

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[17] Pentachlorobenzene/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):47/47(Missing value:0)
Detection Frequency (sample):47/47(Missing value:0)

Detection limit :0.6 Quantification limit :1.4

	stats
Geometric mean	8.8
Median	5.9
Maximum	140
Minimum	2.0

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	39
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	4.8
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	3.3
Akita Pref.	4	Lake Hachiro	11
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	5.9
Fukushima Pref.	6	Onahama Port	36
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	120
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	8.3
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	30
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	16
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	140
,	12	Mouth of Riv. Sumida(Minato Ward)	23
Yokohama City	13	Yokohama Port	26
Kawasaki City	14	Keihin Canal, Port of Kawasaki	34
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	19
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	12
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	14
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	4.4
Nagano Pref.	19	Lake Suwa(center)	53
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	3.3
Aichi Pref.	21	Nagoya Port	32
Mie Pref.	22	Yokkaichi Port	5.4
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	5.8
Kyoto Pref.	24	Miyazu Port	2.0
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	37
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	12
Osaka City	27	Osaka Port	12
Hyogo Pref.	28	Offshore of Himeji	3.2
Kobe City	29	Kobe Port(center)	4.6
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	5.3
Okayama Pref.	31	Offshore of Mizushima	2.9
Hiroshima Pref.	32	Kure Port	2.9
	33	Hiroshima Bay	2.9
Yamaguchi Pref.	34	Tokuyama Bay	3.7
	35	Offshore of Ube	3.3
	36	Offshore of Hagi	3.9
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	3.0
Kagawa Pref.	38	Takamatsu Port	6.5
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	2.1
Kitakyushu City	40	Dokai Bay	84
Saga Pref.	41	Imari Bay	3.4
Nagasaki Pref.	42	Omura Bay	2.2
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	8.1
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	6.9
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	2.9
5	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	4.0
Okinawa Pref.	47	Naha Port	3.3

[22]Pentachlorophenol and its salts and esters/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):42/47(Missing value:0)
Detection Frequency (sample):42/47(Missing value:0)

Detection limit :*15 Quantification limit :*44

	stats
Geometric mean	95
Median	110
Maximum	3,600
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1,600
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	470
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	130
Fukushima Pref.	6	Onahama Port	62
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	410
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	3,600
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	130
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	520
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	1,100
,	12	Mouth of Riv. Sumida(Minato Ward)	270
Yokohama City	13	Yokohama Port	180
Kawasaki City	14	Keihin Canal, Port of Kawasaki	360
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	220
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	250
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	870
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(27)
Nagano Pref.	19	Lake Suwa(center)	62
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	tr(24)
Aichi Pref.	21	Nagoya Port	450
Mie Pref.	22	Yokkaichi Port	420
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	tr(35)
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	310
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	940
Osaka City	27	Osaka Port	150
Hyogo Pref.	28	Offshore of Himeji	150
Kobe City	29	Kobe Port(center)	460
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	97
Okayama Pref.	31	Offshore of Mizushima	81
Hiroshima Pref.	32	Kure Port	tr(27)
	33	Hiroshima Bay	tr(22)
Yamaguchi Pref.	34	Tokuyama Bay	tr(16)
	35	Offshore of Ube	tr(26)
	36	Offshore of Hagi	tr(28)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	tr(27)
Kagawa Pref.	38	Takamatsu Port	150
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(26)
Kitakyushu City	40	Dokai Bay	110
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	440
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(38)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	tr(20)
~	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	62
Okinawa Pref.	47	Naha Port	tr(39)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

(Note 4) nd: Not detected

(Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[22-1]Pentachlorophenol/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):43/47(Missing value:0) Detection Frequency (sample):43/47(Missing value:0)

Detection limit :10 Quantification limit :30

	stats
Geometric mean	86
Median	110
Maximum	3,500
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	610
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	460
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	120
Fukushima Pref.	6	Onahama Port	62
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	380
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	3,500
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	120
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	470
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	1,100
, L	12	Mouth of Riv. Sumida(Minato Ward)	260
Yokohama City	13	Yokohama Port	150
Kawasaki City	14	Keihin Canal, Port of Kawasaki	330
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	200
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	230
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	580
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(20)
Nagano Pref.	19	Lake Suwa(center)	62
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	tr(24)
Aichi Pref.	21	Nagoya Port	430
Mie Pref.	22	Yokkaichi Port	410
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	tr(14)
Kyoto Pref.	24	Miyazu Port	35
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	270
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	880
Osaka City	27	Osaka Port	110
Hyogo Pref.	28	Offshore of Himeji	140
Kobe City	29	Kobe Port(center)	440
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	63
Okayama Pref.	31	Offshore of Mizushima	81
Hiroshima Pref.	32	Kure Port	tr(27)
	33	Hiroshima Bay	tr(22)
Yamaguchi Pref.	34	Tokuyama Bay	tr(16)
	35	Offshore of Ube	tr(26)
	36	Offshore of Hagi	tr(22)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	tr(21)
Kagawa Pref.	38	Takamatsu Port	140
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(21)
Kitakyushu City	40	Dokai Bay	110
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	400
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	32
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	tr(14)
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	53
Okinawa Pref.	47	Naha Port	31

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[22-2]Pentachloroanisole/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):32/47(Missing value:0) Detection Frequency (sample):32/47(Missing value:0)

Detection limit :5 Quantification limit :14

	stats
Geometric mean	tr(10)
Median	tr(8)
Maximum	1,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1,000
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(13)
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	tr(10)
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	31
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	150
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(11)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	53
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	43
	12	Mouth of Riv. Sumida(Minato Ward)	tr(11)
Yokohama City	13	Yokohama Port	25
Kawasaki City	14	Keihin Canal, Port of Kawasaki	26
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	21
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	17
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	290
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(7)
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	19
Mie Pref.	22	Yokkaichi Port	tr(7)
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	40
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	58
Osaka City	27	Osaka Port	42
Hyogo Pref.	28	Offshore of Himeji	tr(10)
Kobe City	29	Kobe Port(center)	15
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	34
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	tr(6)
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	tr(6)
Kagawa Pref.	38	Takamatsu Port	tr(7)
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	tr(5)
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	36
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(6)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	tr(6)
-	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(9)
Okinawa Pref.	47	Naha Port	tr(8)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[23]Short-chain chlorinated paraffins/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :1/47(Missing value :0)
Detection Frequency (sample) :1/47(Missing value :0)

Detection limit :*3,900 Quantification limit :*11,700

	stats
Geometric mean	nd
Median	nd
Maximum	24,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
,	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kvoto Pref.	24	Mivazu Port	24.000
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
8	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd: Not detected

(Note 4) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[23-1]Chlorinated decanes/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :1/47(Missing value :0)
Detection Frequency (sample) :1/47(Missing value :0)

Detection limit :1,100 Quantification limit :3,300

	stats
Geometric mean	nd
Median	nd
Maximum	tr(1,600)
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	tr(1,600)
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
-	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[23-2]Chlorinated undecanes/surface water (pg/L)

Monitored year :2017

Detection Frequency (site):13/47(Missing value:0)
Detection Frequency (sample):13/47(Missing value:0)

Detection limit :500 Quantification limit :1,500

	stats
Geometric mean	nd
Median	nd
Maximum	3,100
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	tr(500)
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	tr(700)
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	tr(1,200)
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	tr(800)
	12	Mouth of Riv. Sumida(Minato Ward)	tr(1,000)
Yokohama City	13	Yokohama Port	tr(700)
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	nd
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	2,900
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	tr(700)
Osaka City	27	Osaka Port	3,100
Hyogo Pref.	28	Offshore of Himeji	tr(600)
Kobe City	29	Kobe Port(center)	tr(900)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	tr(500)
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(700)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
-	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[23-3]Chlorinated dodecanes/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :4/47(Missing value :0)
Detection Frequency (sample) :4/47(Missing value :0)

Detection limit :1,100 Quantification limit :3,300

	stats
Geometric mean	nd
Median	nd
Maximum	10,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(1,200)
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	tr(1,100)
Mie Pref.	22	Yokkajchi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	24	Miyazu Port	10,000
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	tr(1,300)
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
_	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
- amagaem 11en	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
isagosiiiiia i ici.	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[23-4]Chlorinated tridecanes/surface water (pg/L)

Monitored year :2017

Detection Frequency (site) :7/47(Missing value :0)
Detection Frequency (sample) :7/47(Missing value :0)

Detection limit :1,200 Quantification limit :3,600

	stats
Geometric mean	nd
Median	nd
Maximum	10,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
Iwate Pref.	2	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay(Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Saitama Pref.	9	Akigaseshusuizeki of Riv. Arakawa(Shiki City)	nd
Chiba City	10	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	11	Mouth of Riv. Arakawa(Koto Ward)	nd
, i	12	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	13	Yokohama Port	nd
Kawasaki City	14	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	15	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	16	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	17	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	18	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	19	Lake Suwa(center)	nd
Shizuoka Pref.	20	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	21	Nagoya Port	tr(1,200)
Mie Pref.	22	Yokkaichi Port	nd
Shiga Pref.	23	Lake Biwa(center, offshore of Karasaki)	tr(1,400)
Kyoto Pref.	24	Miyazu Port	10,000
Kyoto City	25	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato(Sakai City)	tr(1,600)
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port(center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	tr(1,400)
Okayama Pref.	31	Offshore of Mizushima	tr(1,200)
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori(Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo(Miyazaki City)	tr(1,400)
Kagoshima Pref.	45	Riv. Amori(Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed sam (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1] Total PCBs /sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :61/62(Missing value :0) Detection Frequency (sample) :61/62(Missing value :0) Detection limit :*5.0 Quantification limit :*14

	stats
Geometric mean	4,600
Median	6,200
Maximum	610,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	140
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	710
	3	Tomakomai Port	6,100
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	200
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	3,900
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	560
Akita Pref.	7	Lake Hachiro	2,900
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	840
Fukushima Pref.	9	Onahama Port	47,000
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	680
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	250
Chiba Pref.	12	Coast of Ichihara and Anegasaki	29,000
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	1,100
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	70,000
	15	Mouth of Riv. Sumida(Minato Ward)	280,000
Yokohama City	16	Yokohama Port	120,000
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	37,000
	18	Keihin Canal, Port of Kawasaki	260,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	430
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	1,000
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	6,200
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	100
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	87
Nagano Pref.	24	Lake Suwa(center)	8,200
Shizuoka Pref.	25	Shimizu Port	24,000
4:1:D C	26	Riv. Tenryu(Iwata City)	130
Aichi Pref.	27	Kinuura Port	18,000
Mie Pref.	28 29	Nagoya Port Yokkaichi Port	28,000
Mie Prei.			26,000
Shiga Pref.	30	Toba Port Lake Biwa(center, offshore of Minamihira)	18,000 7,200
Siliga I ICI.	32	Lake Biwa(center, offshore of Karasaki)	11,000
Kyoto Pref.	33	Miyazu Port	1,800
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	5,800
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	24,000
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	39,000
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	65,000
	38	Osaka Port	610,000
	39	Outside Osaka Port	88,000
Hyogo Pref.	40	Offshore of Himeji	15,000
Kobe City	41	Kobe Port(center)	180,000
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	660
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	1,500
Okayama Pref.	44	Offshore of Mizushima	2,300
Hiroshima Pref.	45	Kure Port	90,000
	46	Hiroshima Bay	20,000
Yamaguchi Pref.	47	Tokuyama Bay	4,600
	48	Offshore of Ube	4,700
	49	Offshore of Hagi	2,800
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	400
Kagawa Pref.	51	Takamatsu Port	130,000
Ehime Pref.	52	Niihama Port	210
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	560
Kitakyushu City	54	Dokai Bay	220,000
Fukuoka City	55	Hakata Bay	7,700
Saga Pref.	56	Imari Bay	6,600
Nagasaki Pref.	57	Omura Bay	7,100
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	1,300
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	37
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	96
Okinawa Pref.	62	Naha Port	140,000
		y (site) is based on the number of sites, thus means (the number of detected sites/the numb	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr : detection limit value and more, less than Quantification limit value.

⁽Note 4) nd: Not detected

⁽Note 5) * : indicates the sum value of the Quantification [Detection] limits of each congener.

[1-1] Monochlorobiphenyls/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.2 Quantification limit :0.6

	stats
Geometric mean	38
Median	67
Maximum	1,600
Minimum	tr(0.4)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	1.2
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	2.9
	3	Tomakomai Port	51
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	0.7
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	130
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	1.0
Akita Pref.	7	Lake Hachiro	25
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	2.3
Fukushima Pref.	9	Onahama Port	460
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	16
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	0.8
Chiba Pref.	12	Coast of Ichihara and Anegasaki	110
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	6.2
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	430
	15	Mouth of Riv. Sumida(Minato Ward)	1,600
Yokohama City	16	Yokohama Port	850
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	63
	18	Keihin Canal, Port of Kawasaki	1,600
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	3.6
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	240
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	8.8
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	1.4
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	1.0
Nagano Pref.	24	Lake Suwa(center)	73
Shizuoka Pref.	25	Shimizu Port	100
	26	Riv. Tenryu(Iwata City)	1.3
Aichi Pref.	27	Kinuura Port	170
	28	Nagoya Port	200
Mie Pref.	29	Yokkaichi Port	160
	30	Toba Port	78
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	55
8	32	Lake Biwa(center, offshore of Karasaki)	69
Kyoto Pref.	33	Miyazu Port	37
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	160
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	60
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	200
o sum o ny	37	Mouth of Riv. Yodo(Osaka City)	220
	38	Osaka Port	1,600
	39	Outside Osaka Port	620
Hyogo Pref.	40	Offshore of Himeji	280
Kobe City	41	Kobe Port(center)	430
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	3.7
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	62
Okayama Pref.	44	Offshore of Mizushima	65
Hiroshima Pref.	45	Kure Port	200
	46	Hiroshima Bay	210
Yamaguchi Pref.	47	Tokuyama Bay	100
- amagacin i ici.	48	Offshore of Ube	64
	49	Offshore of Hagi	27
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	3.4
Kagawa Pref.	51	Takamatsu Port	190
Ehime Pref.	52	Niihama Port	3.3
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	6.6
Kitakyushu City	54	Dokai Bay	520
Fukuoka City	55	Hakata Bay	110
Saga Pref.	56	Imari Bay	97
Nagasaki Pref.	57	Omura Bay	170
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	7.6
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	1.9
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(0.4)
ragosiiilla 1 ici.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	1.0
Okinawa Pref.	62	Naha Port	290
(Nata 1) Datastian f	02	Ivalia Fort	250

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-2] Dichlorobiphenyls/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.8 Quantification limit :2.4

	stats
Geometric mean	280
Median	350
Maximum	26,000
Minimum	tr(1.7)

Hokkaido Iwate Pref. Aliyagi Pref. Sendai City Akita Pref. Fukushima Pref. Ibaraki Pref. Tochigi Pref. Ichiba City Ithoryo Met. Ithor	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City) Tomakomai Port Riv. Toyosawa(Hanamaki City) Sendai Bay(Matsushima Bay) Hirose-ohashi Bridge, Riv. Hirose(Sendai City) Lake Hachiro Mouth of Riv. Mogami(Sakata City) Onahama Port Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City) Tagawa Kyubun Area Head Works(Utsunomiya City) Coast of Ichihara and Anegasaki Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Arakawa(Koto Ward) Mouth of Riv. Sumida(Minato Ward) Yokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	18 60 1,000 3.9 450 6.9 61 28 4,400 45 26 860 54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600 1,600
Iwate Pref. 4 Miyagi Pref. 5 Sendai City 6 Akita Pref. 7 Yamagata Pref. 8 Ibaraki Pref. 10 Chiba Pref. 11 Chiba Pref. 11 Tokyo Met. 11 Yokohama City 11 Kawasaki City 11 Niigata Pref. 12 Toyama Pref. 2 Ishikawa Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Aichi Pref. 2 Mie Pref. 2 Mie Pref. 2	Tomakomai Port Riv. Toyosawa(Hanamaki City) Sendai Bay(Matsushima Bay) Hirose-ohashi Bridge, Riv. Hirose(Sendai City) Lake Hachiro Mouth of Riv. Mogami(Sakata City) Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City) Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City) Tagawa Kyubun Area Head Works(Utsunomiya City) Coast of Ichihara and Anegasaki Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Sumida(Minato Ward) Mouth of Riv. Sumida(Minato Ward) Vokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	1,000 3.9 450 6.9 61 28 4,400 45 26 860 54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Iwate Pref. 4 Miyagi Pref. 5 Sendai City 6 Akita Pref. 7 Yamagata Pref. 8 Fukushima Pref. 1 Ibaraki Pref. 1 Chiba Pref. 1 Chiba City 1 Tokyo Met. 1 Yokohama City 1 Kawasaki City 1 Niigata Pref. 2 Ishikawa Pref. 2 Ishikawa Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Mie Pref. 2	Riv. Toyosawa(Hanamaki City) Sendai Bay(Matsushima Bay) Hirose-ohashi Bridge, Riv. Hirose(Sendai City) Lake Hachiro Mouth of Riv. Mogami(Sakata City) Onahama Port Onahama Port Onahama Port Coast of Ichihara and Anegasaki Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Arakawa(Koto Ward) Mouth of Riv. Sumida(Minato Ward) Yokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Nagoya Port Nagoya Port Vokaichi Port	3.9 450 6.9 61 28 4,400 45 26 860 54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Miyagi Pref. Sendai City Akita Pref. 74 amagata Pref. 85 Eukushima Pref. 10 Tochigi Pref. 11 Chiba Pref. 12 Chiba City 13 Tokyo Met. 14 Tokyo Met. 15 Tokyo Met. 16 Town Met. 17 Tokyo Met. 18 Tokyo Met. 19 Tokyo Met. 10 Tokyo Met. 10 Tokyo Met. 11 Tokyo Met. 12 Tokyo Met. 13 Tokyo Met. 14 Tokyo Met. 15 Toyama Pref. 16 Toyama Pref. 17 Toyama Pref. 18 Toyama Pref. 19 Toyama Pref. 20 Toyama Pref. 21 Yamanashi Pref. 22 Yamanashi Pref. 23 Tokyo Met. 24 Toyama Pref. 26 Toyama Pref. 27 Toyama Pref. 28 Toyama Pref. 29 Toyama Pref. 20 Toyama Pref. 20 Toyama Pref. 20 Toyama Pref. 21 Toyama Pref. 22 Toyama Pref. 23 Toyama Pref. 24 Toyama Pref. 25 Toyama Pref. 26 Toyama Pref. 27 Toyama Pref. 28 Toyama Pref. 29 Toyama Pref. 20 Toyama Pref. 21 Toyama Pref. 22 Toyama Pref. 23 Toyama Pref. 24 Toyama Pref. 25 Toyama Pref. 26 Toyama Pref. 27 Toyama Pref. 28 Toyama Pref. 29 Toyama Pref. 20 Toyama Pref. 21 Toyama Pref. 22 Toyama Pref. 23 Toyama Pref. 24 Toyama Pref. 25 Toyama Pref. 26 Toyama Pref. 27 Toyama Pref. 28 Toyama Pref. 29 Toyama Pref. 20 Toyama Pref. 21 Toyama Pref. 22 Toyama Pref. 23 Toyama Pref. 24 Toyama Pref. 25 Toyama Pref. 26 Toyama Pref. 27 Toyama Pref. 28 Toyama Pref. 29 Toyama Pref. 20 Toyama Pref. 21 Toyama Pref. 22 Toyama Pref. 23 Toyama Pref. 24 Toyama Pref. 25 Toyama Pref. 26 Toyama Pref. 27 Toyama Pref. 28 Toyama Pref. 29 Toyama Pref. 20 Toyama Pref. 21 Toyama Pref. 22 Toyama Pref. 23 Toyama Pref. 24 Toyama Pref. 25 Toyama Pref. 26 Toyama Pref. 27 Toyama Pref. 28 Toyama Pref. 28 Toyama Pref. 29 Toyama Pref	Sendai Bay(Matsushima Bay) Hirose-ohashi Bridge, Riv. Hirose(Sendai City) Lake Hachiro Mouth of Riv. Mogami(Sakata City) Onahama Port Onahama Port Onahama Port Coast of Ichihara and Anegasaki Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Arakawa(Koto Ward) Mouth of Riv. Sumida(Minato Ward) Vokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Vokkaichi Port	450 6.9 6.9 61 28 4,400 45 26 860 54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Sendai City Akita Pref. 7 Yamagata Pref. 8 Fukushima Pref. 10 Tochigi Pref. 11 Chiba Pref. 12 Chiba City 13 Tokyo Met. 14 Tokyo Met. 15 Tokyo Met. 16 Toyoma Pref. 17 Toyama Pref. 19 Toyama Pref. 20 Ishikawa Pref. 21 Yamanashi Pref. 22 Yamanashi Pref. 22 Aichi Pref. 22 Mie Pref. 22 Mie Pref. 23 Mie Pref. 24 Mie Pref. 26 Mie Pref. 27 Mie Pref. 26 Mie Pref. 27 Mie Pref. 28 Mie Pref. 29 Mie Pref. 20 Mie Pref. 21 Mie Pref. 22 Mie Pref. 23 Mie Pref. 24 Mie Pref. 25 Mie Pref. 26 Mie Pref. 27 Mie Pref. 28 Mie Pref. 29 Mie Pref. 20 Mie Pref.	Hirose-ohashi Bridge, Riv. Hirose(Sendai City) Lake Hachiro Mouth of Riv. Mogami(Sakata City) Onahama Port OTonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City) Tagawa Kyubun Area Head Works(Utsunomiya City) Coast of Ichihara and Anegasaki Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Sumida(Minato Ward) Mouth of Riv. Sumida(Minato Ward) Yokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Nagoya Port Yokkaichi Port	6.9 61 28 4,400 45 26 860 54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Akita Pref. 7 Yamagata Pref. 8 Fukushima Pref. 9 Ibaraki Pref. 1 Tochigi Pref. 1 Chiba Pref. 1 Tokyo Met. 1 Yokohama City 1 Niigata Pref. 1 Toyama Pref. 2 Ishikawa Pref. 2 Yamanashi Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Aichi Pref. 2 Aichi Pref. 2 Mie Pref. 2 Mie Pref. 2 Mie Pref. 3 Mie Pref. 4 Mi	Lake Hachiro Mouth of Riv. Mogami(Sakata City) Onahama Port Onekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City) Tagawa Kyubun Area Head Works(Utsunomiya City) Coast of Ichihara and Anegasaki Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Sumida(Minato Ward) Mouth of Riv. Sumida(Minato Ward) Yokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Nagoya Port Yokkaichi Port	61 28 4,400 45 26 860 54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Yamagata Pref. 8 Fukushima Pref. 9 Ibaraki Pref. 1 Tochigi Pref. 1 Chiba Pref. 1 Chiba City 1 Tokyo Met. 1 Yokohama City 1 Kawasaki City 1 Niigata Pref. 2 Ishikawa Pref. 2 Yamanashi Pref. 2 Xamanashi Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Mie Pref. 2 Mie Pref. 2 Mie Pref. 2	Mouth of Riv. Mogami(Sakata City) Onahama Port Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City) Tagawa Kyubun Area Head Works(Utsunomiya City) Coast of Ichihara and Anegasaki Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Sumida(Minato Ward) Mouth of Riv. Sumida(Minato Ward) Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Senshu-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Nagoya Port Nagoya Port Vokkaichi Port	28 4,400 45 26 860 54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Fukushima Pref. 19 Ibaraki Pref. 10 Tochigi Pref. 11 Chiba Pref. 12 Chiba City 12 Tokyo Met. 12 Tokyo Met. 12 Yokohama City 13 Kawasaki City 14 Niigata Pref. 15 Toyama Pref. 22 Ishikawa Pref. 22 Yamanashi Pref. 22 Yamanashi Pref. 22 Shizuoka Pref. 22 Aichi Pref. 22 Mie Pref. 23 Mie Pref. 24 Mie Pref. 25 Mie Pref. 26 Mie Pref. 27 Mie Pref. 28 Mie Pref. 29 Mie Pref. 20 Mie Pref. 30 Mie Pref.	Onahama Port Onahama Port Onahama Port Onekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City) Tagawa Kyubun Area Head Works(Utsunomiya City) Coast of Ichihara and Anegasaki Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Arakawa(Koto Ward) Mouth of Riv. Sumida(Minato Ward) Yokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Nagoya Port Yokkaichi Port	4,400 45 26 860 54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Ibaraki Pref. 10 Tochigi Pref. 1 Chiba Pref. 1 Chiba City 1 Tokyo Met. 1 Tokyo Met. 1 Yokohama City 1 Kawasaki City 1 Niigata Pref. 2 Ishikawa Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 3	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City) Tagawa Kyubun Area Head Works(Utsunomiya City) Coast of Ichihara and Anegasaki Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Sumida(Minato Ward) Yokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	45 26 860 54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Tochigi Pref. 1 Chiba Pref. 1 Chiba City 1 Tokyo Met. 1 Yokohama City 1 Kawasaki City 1 Niigata Pref. 2 Ishikawa Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2	Tagawa Kyubun Area Head Works(Utsunomiya City) Coast of Ichihara and Anegasaki Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Sumida(Minato Ward) Mouth of Riv. Sumida(Minato Ward) Wokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Senshu-bashi Bridge, Riv. Shono(Tsuruga City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	26 860 54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Chiba Pref. 1: Chiba City 1: Tokyo Met. 1. Yokohama City 1: Kawasaki City 1: Niigata Pref. 2: Ishikawa Pref. 2: Fukui Pref. 2: Nagano Pref. 2: Shizuoka Pref. 2: Aichi Pref. 2: Mie Pref. 2: Mie Pref. 2: Mie Pref. 2: Aichi Pref. 2: Mie Pref. 2: Aichi Pref. 3: Aic	Coast of Ichihara and Anegasaki Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Arakawa(Koto Ward) Mouth of Riv. Sumida(Minato Ward) Yokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	860 54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Chiba City Tokyo Met. 1 Yokohama City I Kawasaki City Niigata Pref. Ishikawa Pref. 2 Ishikawa Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Mie Pref. 2 Mie Pref. 2 3	Mouth of Riv. Hanami(Chiba City) Mouth of Riv. Arakawa(Koto Ward) Mouth of Riv. Sumida(Minato Ward) Yokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	54 4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Tokyo Met. 1. Yokohama City 1. Kawasaki City 1. Niigata Pref. 1. Toyama Pref. 2. Ishikawa Pref. 2. Fukui Pref. 2. Yamanashi Pref. 2. Shizuoka Pref. 2. Aichi Pref. 2. Mie Pref. 2.	Mouth of Riv. Arakawa(Koto Ward) Mouth of Riv. Sumida(Minato Ward) Mouth of Riv. Sumida(Minato Ward) Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Senshu-bashi Bridge, Riv. Shono(Tsuruga City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	4,200 13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Yokohama City 1 Kawasaki City 1 Niigata Pref. 1 Toyama Pref. 2 Ishikawa Pref. 2 Fukui Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2	Mouth of Riv. Sumida(Minato Ward) Yokohama Port Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	13,000 3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Yokohama City	6 Yokohama Port 7 Mouth of Riv. Tama(Kawasaki City) 8 Keihin Canal, Port of Kawasaki 9 Lower Riv. Shinano(Niigata City) 10 Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) 11 Mouth of Riv. Sai(Kanazawa City) 12 Mishima-bashi Bridge, Riv. Shono(Tsuruga City) 13 Senshu-bashi Bridge, Riv. Arakawa(Kofu City) 14 Lake Suwa(center) 15 Shimizu Port 16 Riv. Tenryu(Iwata City) 17 Kinuura Port 18 Nagoya Port 19 Yokkaichi Port	3,100 1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Niigata Pref. 1 Niigata Pref. 2 Ishikawa Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Mie Pref. 2 3	Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City) Mouth of Riv. Sai(Kanazawa City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	1,400 5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Niigata Pref. 19 Toyama Pref. 2 Ishikawa Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 3	8 Keihin Canal, Port of Kawasaki 9 Lower Riv. Shinano(Niigata City) 10 Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) 11 Mouth of Riv. Sai(Kanazawa City) 12 Mishima-bashi Bridge, Riv. Shono(Tsuruga City) 13 Senshu-bashi Bridge, Riv. Arakawa(Kofu City) 14 Lake Suwa(center) 15 Shimizu Port 16 Riv. Tenryu(Iwata City) 17 Kinuura Port 18 Nagoya Port 19 Yokkaichi Port	5,500 26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Niigata Pref. 1 Toyama Pref. 2 Ishikawa Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 3	Description of the sum	26 50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Toyama Pref. 2 Ishikawa Pref. 2 Fukui Pref. 2	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	50 210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Ishikawa Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 2 Aichi Pref. 2 2 Mie Pref. 2 3 3	Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	210 tr(1.7) 6.9 260 1,700 10 1,000 2,600
Fukui Pref. 2. Yamanashi Pref. 2. Nagano Pref. 2. Shizuoka Pref. 2. Aichi Pref. 2. Mie Pref. 2. 30 3.	Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center) Shimizu Port Riv. Tenryu(Iwata City) Kinuura Port Nagoya Port Yokkaichi Port	tr(1.7) 6.9 260 1,700 10 1,000 2,600
Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 30 3	3 Senshu-bashi Bridge, Riv. Arakawa(Kofu City) 4 Lake Suwa(center) 5 Shimizu Port 6 Riv. Tenryu(Iwata City) 7 Kinuura Port 8 Nagoya Port 9 Yokkaichi Port	6.9 260 1,700 10 1,000 2,600
Nagano Pref. 2. Shizuoka Pref. 2. 2 2 Aichi Pref. 2. Mie Pref. 2. 30 3.	4 Lake Suwa(center) 5 Shimizu Port 6 Riv. Tenryu(Iwata City) 7 Kinuura Port 8 Nagoya Port 9 Yokkaichi Port	260 1,700 10 1,000 2,600
Shizuoka Pref. 2 2 2 Aichi Pref. 2 2 2 Mie Pref. 2 30 3	5 Shimizu Port 6 Riv. Tenryu(Iwata City) 7 Kinuura Port 8 Nagoya Port 9 Yokkaichi Port	1,700 10 1,000 2,600
Aichi Pref. 2 Mie Pref. 2 Mie Pref. 3	6 Riv. Tenryu(Iwata City) 7 Kinuura Port 8 Nagoya Port 9 Yokkaichi Port	10 1,000 2,600
Aichi Pref. 2 Mie Pref. 2 Mie Pref. 3	7 Kinuura Port 8 Nagoya Port 9 Yokkaichi Port	1,000 2,600
Mie Pref. 2:	8 Nagoya Port 9 Yokkaichi Port	2,600
Mie Pref. 29	9 Yokkaichi Port	
30		1,600
	O Toba Port	1,000
Shiga Pref. 3	v 1 OOA f OIt	360
	1 Lake Biwa(center, offshore of Minamihira)	230
3:	2 Lake Biwa(center, offshore of Karasaki)	640
Kyoto Pref. 3:	3 Miyazu Port	160
Kyoto City 3-	4 Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	820
Osaka Pref. 3:		2,000
Osaka City 3	6 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	2,500
3	7 Mouth of Riv. Yodo(Osaka City)	3,600
3:	8 Osaka Port	26,000
3	9 Outside Osaka Port	7,800
Hyogo Pref. 4	0 Offshore of Himeji	1,800
Kobe City 4	1 Kobe Port(center)	4,900
Nara Pref. 4	2 Taisho-bashi Bridge, Riv. Yamato(Oji Town)	91
YY 1 D C 4	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	220
Wakayama Pref. 4.	City)	220
Okayama Pref. 4	4 Offshore of Mizushima	340
Hiroshima Pref. 4	5 Kure Port	1,400
4	6 Hiroshima Bay	1,400
Yamaguchi Pref. 4	7 Tokuyama Bay	260
4	8 Offshore of Ube	300
49	9 Offshore of Hagi	160
Tokushima Pref. 5		16
Kagawa Pref. 5	*/	10,000
Ehime Pref. 52		25
Kochi Pref. 5		25
Kitakyushu City 5	` */	4,400
Fukuoka City 5:	,	570
Saga Pref. 5		370
Nagasaki Pref. 5		520
Oita Pref. 5	·	100
Miyazaki Pref. 5	` ''	9.3
Kagoshima Pref. 6	7 7	3.4
6		3.2
Okinawa Pref. 6		3,200

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-3] Trichlorobiphenyls/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :61/62(Missing value :0) Detection Frequency (sample) :61/62(Missing value :0) Detection limit :0.9 Quantification limit :2.7

	stats
Geometric mean	660
Median	920
Maximum	160,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	9.7
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	120
	3	Tomakomai Port	900
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	6.3
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	500
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	31
Akita Pref.	7	Lake Hachiro	170
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	66
Fukushima Pref.	9	Onahama Port	7,000
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	130
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	68
Chiba Pref.	12	Coast of Ichihara and Anegasaki	3,600
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	140
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	19,000
	15	Mouth of Riv. Sumida(Minato Ward)	69,000
Yokohama City	16	Yokohama Port	13,000
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	8,200
	18	Keihin Canal, Port of Kawasaki	30,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	72
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	140
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	1,400
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	19
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	8.2
Nagano Pref.	24	Lake Suwa(center)	950
Shizuoka Pref.	25	Shimizu Port	5,400
	26	Riv. Tenryu(Iwata City)	21
Aichi Pref.	27	Kinuura Port	3,300
	28	Nagoya Port	8,000
Mie Pref.	29	Yokkaichi Port	7,100
	30	Toba Port	820
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	930
	32	Lake Biwa(center, offshore of Karasaki)	1,900
Kyoto Pref.	33	Miyazu Port	310
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	1,900
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	3,200
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	4,100
	37	Mouth of Riv. Yodo(Osaka City)	8,100
	38	Osaka Port	160,000
	39	Outside Osaka Port	23,000
Hyogo Pref.	40	Offshore of Himeji	2,300
Kobe City	41	Kobe Port(center)	8,700
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	39
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	210
-		City)	
Okayama Pref.	44	Offshore of Mizushima	440
Hiroshima Pref.	45	Kure Port	5,100
	46	Hiroshima Bay	2,800
Yamaguchi Pref.	47	Tokuyama Bay	470
	48	Offshore of Ube	640
	49	Offshore of Hagi	270
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	47
Kagawa Pref.	51	Takamatsu Port	55,000
Ehime Pref.	52	Niihama Port	60
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	52
Kitakyushu City	54	Dokai Bay	39,000
Fukuoka City	55	Hakata Bay	1,400
Saga Pref.	56	Imari Bay	940
Nagasaki Pref.	57	Omura Bay	1,000
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	430
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	5.4
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	9.0
Okinawa Pref.	62	Naha Port V (site) is based on the number of sites, thus means (the number of detected sites/the number)	6,600

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-4] Tetrachlorobiphenyls/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :61/62(Missing value :0) Detection Frequency (sample) :61/62(Missing value :0) Detection limit :0.8 Quantification limit :2.1

	stats
Geometric mean	1,100
Median	1,300
Maximum	200,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	14
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	160
	3	Tomakomai Port	1,500
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	38
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	760
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	77
Akita Pref.	7	Lake Hachiro	460
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	160
Fukushima Pref.	9	Onahama Port	11,000
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	200
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	84
Chiba Pref.	12	Coast of Ichihara and Anegasaki	11,000
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	410
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	26,000
1011/01/1011	15	Mouth of Riv. Sumida(Minato Ward)	110,000
Yokohama City	16	Yokohama Port	27,000
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	13,000
Kawasaki City	18	Keihin Canal, Port of Kawasaki	61,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	110
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	230
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	1,700
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	56
Yamanashi Pref.		Senshu-bashi Bridge, Riv. Snono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	13
Nagano Pref.	23	· •	
U	24	Lake Suwa(center)	1,900
Shizuoka Pref.	25	Shimizu Port	5,500
1:1:D C	26	Riv. Tenryu(Iwata City)	31
Aichi Pref.	27	Kinuura Port	5,200
20.00	28	Nagoya Port	9,800
Mie Pref.	29	Yokkaichi Port	7,800
	30	Toba Port	1,200
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	1,700
	32	Lake Biwa(center, offshore of Karasaki)	2,200
Kyoto Pref.	33	Miyazu Port	320
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	1,400
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	6,000
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	11,000
	37	Mouth of Riv. Yodo(Osaka City)	23,000
	38	Osaka Port	200,000
	39	Outside Osaka Port	24,000
Hyogo Pref.	40	Offshore of Himeji	4,200
Kobe City	41	Kobe Port(center)	26,000
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	140
W-1 Df	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	200
Wakayama Pref.	43	City)	290
Okayama Pref.	44	Offshore of Mizushima	460
Hiroshima Pref.	45	Kure Port	11,000
ļ	46	Hiroshima Bay	3,700
Yamaguchi Pref.	47	Tokuyama Bay	620
- T	48	Offshore of Ube	1,300
	49	Offshore of Hagi	460
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	80
Kagawa Pref.	51	Takamatsu Port	39,000
Ehime Pref.	52	Niihama Port	49
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	83
Kitakyushu City	54	Dokai Bay	100,000
Fukuoka City	55	Hakata Bay	2,300
Saga Pref.	56	Imari Bay	1,100
Nagasaki Pref.	57	Omura Bay	1,300
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	360
Miyazaki Pref.	59	Mouth of Riv. Ona(Ona City) Mouth of Riv. Oyodo(Miyazaki City)	5.8
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
01: 7.0	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	47
Okinawa Pref.	62	Naha Port	16,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-4-1] 3,3',4,4'-Tetrachlorobiphenyl (#77)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.1 Quantification limit :0.3

	stats
Geometric mean	30
Median	36
Maximum	4,600
Minimum	tr(0.1)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	1.1
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	3.1
	3	Tomakomai Port	25
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	0.6
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	22
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	3.5
Akita Pref.	7	Lake Hachiro	24
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	3.5
Fukushima Pref.	9	Onahama Port	200
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	5.6
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	2.3
Chiba Pref.	12	Coast of Ichihara and Anegasaki	230
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	9.5
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	900
	15	Mouth of Riv. Sumida(Minato Ward)	3,400
Yokohama City	16	Yokohama Port	450
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	120
	18	Keihin Canal, Port of Kawasaki	1,400
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	3.2
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	5.4
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	33
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	0.5
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	0.5
Nagano Pref.	24	Lake Suwa(center)	83
Shizuoka Pref.	25	Shimizu Port	180
	26	Riv. Tenryu(Iwata City)	0.7
Aichi Pref.	27	Kinuura Port	120
	28	Nagoya Port	150
Mie Pref.	29	Yokkaichi Port	150
	30	Toba Port	47
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	70
	32	Lake Biwa(center, offshore of Karasaki)	130
Kyoto Pref.	33	Miyazu Port	11
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	42
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	130
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	330
	37	Mouth of Riv. Yodo(Osaka City)	2,100
	38	Osaka Port	4,600
	39	Outside Osaka Port	540
Hyogo Pref.	40	Offshore of Himeji	370
Kobe City	41	Kobe Port(center)	730
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	5.0
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	14
		City)	- 10
Okayama Pref.	44	Offshore of Mizushima	12
Hiroshima Pref.	45	Kure Port	190
** 1:5 0	46	Hiroshima Bay	91
Yamaguchi Pref.	47	Tokuyama Bay	23
	48	Offshore of Ube	24
T 1 1: D C	49	Offshore of Hagi	11
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	1.6
Kagawa Pref.	51	Takamatsu Port	660
Ehime Pref.	52	Niihama Port Mouth of Riv. Chimanta (Chimanta City)	1.7
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	2.7
Kitakyushu City	54	Dokai Bay	1,400
Fukuoka City	55	Hakata Bay	50
Saga Pref.	56	Imari Bay	38
Nagasaki Pref.	57	Omura Bay	40
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	7.7
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	0.3
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(0.1)
Olsinsu B C	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	1.1
Okinawa Pref.	62	Naha Port	200

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-4-2] 3,4,4',5-Tetrachlorobiphenyl (#81)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :51/62(Missing value :0) Detection Frequency (sample) :51/62(Missing value :0) Detection limit :0.09 Quantification limit :0.24

	stats
Geometric mean	1.3
Median	1.7
Maximum	220
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(0.13)
	3	Tomakomai Port	1.7
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	1.5
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	tr(0.20)
Akita Pref.	7	Lake Hachiro	nd
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	0.66
Fukushima Pref.	9	Onahama Port	9.4
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(0.11)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	5.8
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	0.39
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	8.5
	15	Mouth of Riv. Sumida(Minato Ward)	57
Yokohama City	16	Yokohama Port	23
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	5.0
)	18	Keihin Canal, Port of Kawasaki	130
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	tr(0.09)
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(0.23)
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	1.1
Fukui Pref. Yamanashi Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Nagano Pref.	24	Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center)	nd 2.4
Shizuoka Pref.	25	Shimizu Port	10
Snizuoka Prei.	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	2.7
Alciii Fiel.	28	Nagoya Port	5.4
Mie Pref.	29	Yokkaichi Port	4.3
WHE I ICI.	30	Toba Port	2.7
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	4.1
Singa 1 ici.	32	Lake Biwa(center, offshore of Karasaki)	6.0
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	0.86
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	5.0
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	12
,	37	Mouth of Riv. Yodo(Osaka City)	13
	38	Osaka Port	220
	39	Outside Osaka Port	33
Hyogo Pref.	40	Offshore of Himeji	3.4
Kobe City	41	Kobe Port(center)	66
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	tr(0.22)
W.I. D.C	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	0.26
Wakayama Pref.	43	City)	0.26
Okayama Pref.	44	Offshore of Mizushima	0.85
Hiroshima Pref.	45	Kure Port	14
	46	Hiroshima Bay	8.2
Yamaguchi Pref.	47	Tokuyama Bay	1.7
	48	Offshore of Ube	2.2
	49	Offshore of Hagi	0.56
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	tr(0.10)
Kagawa Pref.	51	Takamatsu Port	34
Ehime Pref.	52	Niihama Port	tr(0.11)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	tr(0.11)
Kitakyushu City	54	Dokai Bay	77
Fukuoka City	55	Hakata Bay	2.8
Saga Pref.	56	Imari Bay	6.2
Nagasaki Pref.	57	Omura Bay	1.3
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	tr(0.13)
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	17

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

 $(Note\ 3)\ tr: detection\ limit\ value\ and\ more,\ less\ than\ Quantification\ limit\ value.$

[1-5] Pentachlorobiphenyls/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :61/62(Missing value :0) Detection Frequency (sample) :61/62(Missing value :0) Detection limit :0.8 Quantification limit :2.2

	stats
Geometric mean	970
Median	1,100
Maximum	110,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	21
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	200
	3	Tomakomai Port	990
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	91
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	760
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	220
Akita Pref.	7	Lake Hachiro	1,100
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	340
Fukushima Pref.	9	Onahama Port	12,000
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	150
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	40
Chiba Pref.	12	Coast of Ichihara and Anegasaki	6,500
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	290
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	12,000
	15	Mouth of Riv. Sumida(Minato Ward)	56,000
Yokohama City	16	Yokohama Port	23,000
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	7,600
	18	Keihin Canal, Port of Kawasaki	66,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	120
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	200
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	1,300
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	19
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	28
Nagano Pref.	24	Lake Suwa(center)	2,400
Shizuoka Pref.	25	Shimizu Port	2,400
	26	Riv. Tenryu(Iwata City)	38
Aichi Pref.	27	Kinuura Port	3,900
M. D. C	28	Nagoya Port	4,300
Mie Pref.	29	Yokkaichi Port	4,700
Chi Df	30	Toba Port Lake Biwa(center, offshore of Minamihira)	2,200 2,100
Shiga Pref.	31		
Vt- Df	33	Lake Biwa(center, offshore of Karasaki) Miyazu Port	3,000
Kyoto Pref. Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	990
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	4,900
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	10,000
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	16,000
	38	Osaka Port	110,000
	39	Outside Osaka Port	15,000
Hyogo Pref.	40	Offshore of Himeji	2,600
Kobe City	41	Kobe Port(center)	32,000
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	170
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	360
Okayama Pref.	44	Offshore of Mizushima	320
Hiroshima Pref.	45	Kure Port	16,000
	46	Hiroshima Bay	3,700
Yamaguchi Pref.	47	Tokuyama Bay	670
8	48	Offshore of Ube	850
	49	Offshore of Hagi	530
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	120
Kagawa Pref.	51	Takamatsu Port	12,000
Ehime Pref.	52	Niihama Port	25
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	150
Kitakyushu City	54	Dokai Bay	51,000
Fukuoka City	55	Hakata Bay	1,600
Saga Pref.	56	Imari Bay	1,000
Nagasaki Pref.	57	Omura Bay	1,300
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	140
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	8.9
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
-	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	18
	61	Gotanda-basin Bridge, Kiv. Gotanda (Kinkikusinkino City)	10

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-5-1] 2,3,3',4,4'-Pentachlorobiphenyl (#105)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.1 Quantification limit :0.3

	stats
Geometric mean	68
Median	79
Maximum	6,900
Minimum	tr(0.2)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	2.9
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	15
	3	Tomakomai Port	75
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	6.3
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	52
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	11
Akita Pref.	7	Lake Hachiro	74
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	23
Fukushima Pref.	9	Onahama Port	820
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	11
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	3.2
Chiba Pref.	12	Coast of Ichihara and Anegasaki	410
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	24
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	660
	15	Mouth of Riv. Sumida(Minato Ward)	2,700
Yokohama City	16	Yokohama Port	1,600
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	510
	18	Keihin Canal, Port of Kawasaki	4,800
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	9.3
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	16
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	92
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	2.4
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	2.3
Nagano Pref.	24	Lake Suwa(center)	150
Shizuoka Pref.	25	Shimizu Port	230
	26	Riv. Tenryu(Iwata City)	3.3
Aichi Pref.	27	Kinuura Port	280
	28	Nagoya Port	240
Mie Pref.	29	Yokkaichi Port	260
	30	Toba Port	87
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	180
S	32	Lake Biwa(center, offshore of Karasaki)	280
Kyoto Pref.	33	Miyazu Port	23
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	53
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	480
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	870
Ĭ	37	Mouth of Riv. Yodo(Osaka City)	920
	38	Osaka Port	6,900
	39	Outside Osaka Port	580
Hyogo Pref.	40	Offshore of Himeji	160
Kobe City	41	Kobe Port(center)	1,600
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	15
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	29
Okayama Pref.	44	Offshore of Mizushima	18
Hiroshima Pref.	45	Kure Port	580
	46	Hiroshima Bay	180
Yamaguchi Pref.	47	Tokuyama Bay	30
	48	Offshore of Ube	58
	49	Offshore of Hagi	30
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	9.2
Kagawa Pref.	51	Takamatsu Port	940
Ehime Pref.	52	Niihama Port	1.9
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	13
Kitakyushu City	54	Dokai Bay	4,400
Fukuoka City	55	Hakata Bay	140
Saga Pref.	56	Imari Bay	83
Nagasaki Pref.	57	Omura Bay	88
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	3.5
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	1.0
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(0.2)
-150011111111111111111111111111111111	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	1.9
Okinawa Pref.	62	Naha Port	940
(Note 1) Detection f	. 02	(cita) is based on the number of citas, thus means (the number of detected sites/the number	2770

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-5-2] 2,3,4,4',5-Pentachlorobiphenyl (#114)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :58/62(Missing value :0) Detection Frequency (sample) :58/62(Missing value :0) Detection limit :0.09 Quantification limit :0.22

	stats
Geometric mean	3.4
Median	3.7
Maximum	490
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	0.90
	3	Tomakomai Port	5.3
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	0.44
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	2.3
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	1.1
Akita Pref.	7	Lake Hachiro	4.1
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	1.6
Fukushima Pref.	9	Onahama Port	53
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	0.60
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(0.20)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	12
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	1.3
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	46
	15	Mouth of Riv. Sumida(Minato Ward)	170
Yokohama City	16	Yokohama Port	82
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	34
	18	Keihin Canal, Port of Kawasaki	240
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	0.49
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	1.1
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	6.3
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(0.17)
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	tr(0.12)
Nagano Pref.	24	Lake Suwa(center)	6.7
Shizuoka Pref.	25	Shimizu Port	12
	26	Riv. Tenryu(Iwata City)	0.26
Aichi Pref.	27	Kinuura Port	5.5
	28	Nagoya Port	15
Mie Pref.	29	Yokkaichi Port	18
	30	Toba Port	13
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	12
	32	Lake Biwa(center, offshore of Karasaki)	18
Kyoto Pref.	33	Miyazu Port	0.97
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	3.2
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	30
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	64
	37	Mouth of Riv. Yodo(Osaka City)	65
	38	Osaka Port	490
	39	Outside Osaka Port	26
Hyogo Pref.	40	Offshore of Himeji	nd
Kobe City	41	Kobe Port(center)	45
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	0.78
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	2.0
wakayama riei.	43	City)	2.0
Okayama Pref.	44	Offshore of Mizushima	0.76
Hiroshima Pref.	45	Kure Port	18
	46	Hiroshima Bay	5.3
Yamaguchi Pref.	47	Tokuyama Bay	1.1
	48	Offshore of Ube	2.6
	49	Offshore of Hagi	0.98
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	0.52
Kagawa Pref.	51	Takamatsu Port	59
Ehime Pref.	52	Niihama Port	tr(0.11)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	0.63
Kitakyushu City	54	Dokai Bay	300
Fukuoka City	55	Hakata Bay	6.1
Saga Pref.	56	Imari Bay	4.0
Nagasaki Pref.	57	Omura Bay	3.4
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	tr(0.09)
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(0.13)
Okinawa Pref.	62	Naha Port	32
(Note 1) Detection (er (gita) is based on the number of gitas, thus means (the number of detected gitas/the number of	C 1 1 1

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-5-3] 2,3',4,4'-5-Pentachlorobiphenyl (#118)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.3 Quantification limit :0.8

	stats
Geometric mean	170
Median	210
Maximum	17,000
Minimum	tr(0.7)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	4.3
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	32
	3	Tomakomai Port	150
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	16
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	170
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	33
Akita Pref.	7	Lake Hachiro	210
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	60
Fukushima Pref.	9	Onahama Port	1,700
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	29
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	6.9
Chiba Pref.	12	Coast of Ichihara and Anegasaki	1,100
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	50
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	1,600
	15	Mouth of Riv. Sumida(Minato Ward)	9,100
Yokohama City	16	Yokohama Port	3,700
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	920
	18	Keihin Canal, Port of Kawasaki	14,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	22
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	36
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	210
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	3.7
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	5.4
Nagano Pref.	24	Lake Suwa(center)	350
Shizuoka Pref.	25	Shimizu Port	450
	26	Riv. Tenryu(Iwata City)	7.9
Aichi Pref.	27	Kinuura Port	720
	28	Nagoya Port	680
Mie Pref.	29	Yokkaichi Port	880
	30	Toba Port	270
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	390
	32	Lake Biwa(center, offshore of Karasaki)	610
Kyoto Pref.	33	Miyazu Port	61
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	150
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	700
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,400
	37	Mouth of Riv. Yodo(Osaka City)	2,200
	38	Osaka Port	17,000
	39	Outside Osaka Port	2,600
Hyogo Pref.	40	Offshore of Himeji	520
Kobe City	41	Kobe Port(center)	4,800
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	26
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	69
,		City)	
Okayama Pref.	44	Offshore of Mizushima	59
Hiroshima Pref.	45	Kure Port	2,100
	46	Hiroshima Bay	640
Yamaguchi Pref.	47	Tokuyama Bay	110
	48	Offshore of Ube	140
	49	Offshore of Hagi	100
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	22
Kagawa Pref.	51	Takamatsu Port	2,000
Ehime Pref.	52	Niihama Port	5.0
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	31
Kitakyushu City	54	Dokai Bay	8,300
Fukuoka City	55	Hakata Bay	340
Saga Pref.	56	Imari Bay	200
Nagasaki Pref.	57	Omura Bay	260
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	18
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	2.2
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(0.7)
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	3.5
Okinawa Pref.	62	Naha Port	2,600

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-5-4] 2',3,4,4',5-Pentachlorobiphenyl (#123)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :60/62(Missing value :0) Detection Frequency (sample) :60/62(Missing value :0) Detection limit :0.1 Quantification limit :0.2

	stats
Geometric mean	3.5
Median	3.8
Maximum	310
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(0.1)
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	0.7
	3	Tomakomai Port	3.7
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	0.3
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	2.9
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	0.5
Akita Pref.	7	Lake Hachiro	3.2
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	1.2
Fukushima Pref.	9	Onahama Port	32
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	0.6
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	0.2
Chiba Pref.	12	Coast of Ichihara and Anegasaki	15
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	1.0
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	37
	15	Mouth of Riv. Sumida(Minato Ward)	130
Yokohama City	16	Yokohama Port	74
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	25
	18	Keihin Canal, Port of Kawasaki	190
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	0.4
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	0.8
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	4.7
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(0.1)
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	tr(0.1)
Nagano Pref.	24	Lake Suwa(center)	6.5
Shizuoka Pref.	25	Shimizu Port	11
	26	Riv. Tenryu(Iwata City)	0.2
Aichi Pref.	27	Kinuura Port	7.0
	28	Nagoya Port	14
Mie Pref.	29	Yokkaichi Port	16
	30	Toba Port	3.8
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	8.6
S	32	Lake Biwa(center, offshore of Karasaki)	13
Kyoto Pref.	33	Miyazu Port	1.3
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	2.9
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	24
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	49
, and the second	37	Mouth of Riv. Yodo(Osaka City)	55
	38	Osaka Port	310
	39	Outside Osaka Port	36
Hyogo Pref.	40	Offshore of Himeji	9.4
Kobe City	41	Kobe Port(center)	79
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	0.7
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	1.4
Okayama Pref.	44	Offshore of Mizushima	0.9
Hiroshima Pref.	45	Kure Port	37
	46	Hiroshima Bay	11
Yamaguchi Pref.	47	Tokuyama Bay	1.6
8	48	Offshore of Ube	2.9
	49	Offshore of Hagi	1.9
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	0.5
Kagawa Pref.	51	Takamatsu Port	41
Ehime Pref.	52	Niihama Port	tr(0.1)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	0.6
Kitakyushu City	54	Dokai Bay	200
Fukuoka City	55	Hakata Bay	7.3
Saga Pref.	56	Imari Bay	3.9
Nagasaki Pref.	57	Omura Bay	4.8
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	0.2
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(0.1)
Okinawa Pref.	62	Naha Port	50
(Note 1) Detection f	·	(cita) is bessed on the number of sites, thus means (the number of detected sites/the number	0 1::

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-5-5] 3,3',4,4',5-Pentachlorobiphenyl (#126)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :59/62(Missing value :0) Detection Frequency (sample) :59/62(Missing value :0) Detection limit :0.1 Quantification limit :0.3

	stats
Geometric mean	1.7
Median	1.9
Maximum	84
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	0.4
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	0.3
	3	Tomakomai Port	1.2
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	tr(0.2)
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	2.0
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	tr(0.1)
Akita Pref.	7	Lake Hachiro	2.0
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	0.4
Fukushima Pref.	9	Onahama Port	7.1
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	0.5
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(0.1)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	7.4
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	0.5
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	14
Tony o 1110	15	Mouth of Riv. Sumida(Minato Ward)	39
Yokohama City	16	Yokohama Port	31
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	10
rawasan City	18	Keihin Canal, Port of Kawasaki	41
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	0.4
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	0.5
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	1.2
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	tr(0.1)
Nagano Pref.	24	Lake Suwa(center)	7.1
Shizuoka Pref.		Shimizu Port	5.3
Snizuoka Prei.	25		
4:1:D C	26	Riv. Tenryu(Iwata City)	tr(0.1)
Aichi Pref.	27	Kinuura Port	4.0
) (; D, C	28	Nagoya Port	3.8
Mie Pref.	29	Yokkaichi Port	4.2
at: p c	30	Toba Port	3.1
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	nd
	32	Lake Biwa(center, offshore of Karasaki)	9.0
Kyoto Pref.	33	Miyazu Port	0.9
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	1.2
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	14
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	14
	37	Mouth of Riv. Yodo(Osaka City)	22
	38	Osaka Port	84
	39	Outside Osaka Port	15
Hyogo Pref.	40	Offshore of Himeji	9.4
Kobe City	41	Kobe Port(center)	43
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	0.6
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	0.6
., akayama 1 ici.	۲,5	City)	0.0
Okayama Pref.	44	Offshore of Mizushima	0.8
Hiroshima Pref.	45	Kure Port	17
	46	Hiroshima Bay	6.4
Yamaguchi Pref.	47	Tokuyama Bay	1.4
	48	Offshore of Ube	1.7
	49	Offshore of Hagi	0.8
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	0.3
Kagawa Pref.	51	Takamatsu Port	17
Ehime Pref.	52	Niihama Port	tr(0.1)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	0.4
Kitakyushu City	54	Dokai Bay	45
Fukuoka City	55	Hakata Bay	2.7
Saga Pref.	56	Imari Bay	3.3
Nagasaki Pref.	57	Omura Bay	3.3
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	tr(0.1)
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	tr(0.1)
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(0.1)
Okinawa Pref.	62	Naha Port	26
(Note 1) Detection f	02	(cita) is based on the number of sites, thus means (the number of detected sites/the number of	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[1-6] Hexachlorobiphenyls/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :61/62(Missing value :0) Detection Frequency (sample) :61/62(Missing value :0) Detection limit :0.8 Quantification limit :2.2

	stats
Geometric mean	850
Median	1,200
Maximum	76,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	45
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	130
	3	Tomakomai Port	880
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	51
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	760
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	160
Akita Pref.	7	Lake Hachiro	850
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	210
Fukushima Pref.	9	Onahama Port	8,900
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	99
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	26
Chiba Pref.	12	Coast of Ichihara and Anegasaki	4,700
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	190
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	6,500
**	15	Mouth of Riv. Sumida(Minato Ward)	23,000
Yokohama City	16	Yokohama Port	27,000
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	5,200
) D C	18	Keihin Canal, Port of Kawasaki	59,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	75
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	130
Ishikawa Pref. Fukui Pref.	21	Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	1,100
Yamanashi Pref.		Č : (26
Nagano Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center)	1,900
Shizuoka Pref.	25	Shimizu Port	4,100
Silizuoka Fiel.	26	Riv. Tenryu(Iwata City)	22
Aichi Pref.	27	Kinuura Port	3,000
Alcili I Ici.	28	Nagoya Port	2,300
Mie Pref.	29	Yokkaichi Port	3,100
WHE I ICI.	30	Toba Port	6,400
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	1,600
Singu i ici.	32	Lake Biwa(center, offshore of Karasaki)	2,300
Kyoto Pref.	33	Miyazu Port	390
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	490
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	5,800
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	9,700
	37	Mouth of Riv. Yodo(Osaka City)	12,000
	38	Osaka Port	76,000
	39	Outside Osaka Port	12,000
Hyogo Pref.	40	Offshore of Himeji	2,600
Kobe City	41	Kobe Port(center)	59,000
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	180
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	250
wakayama riei.	43	City)	250
Okayama Pref.	44	Offshore of Mizushima	400
Hiroshima Pref.	45	Kure Port	28,000
	46	Hiroshima Bay	5,200
Yamaguchi Pref.	47	Tokuyama Bay	1,200
	48	Offshore of Ube	920
	49	Offshore of Hagi	770
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	100
Kagawa Pref.	51	Takamatsu Port	6,400
Ehime Pref.	52	Niihama Port	28
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	160
Kitakyushu City	54	Dokai Bay	17,000
Fukuoka City	55	Hakata Bay	1,200
Saga Pref.	56	Imari Bay	1,600
Nagasaki Pref.	57	Omura Bay	1,700
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	140
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	6.1
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd 14
Oleiner B C	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	14
Okinawa Pref.	62	Naha Port y (site) is based on the number of sites, thus means (the number of detected sites/the number)	49,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-6-1] 2,3,3',4,4',5-Hexachlorobiphenyl (#156)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.09 Quantification limit :0.24

	stats
Geometric mean	22
Median	28
Maximum	1,800
Minimum	tr(0.13)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	0.92
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	4.3
	3	Tomakomai Port	18
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	1.8
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	15
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	3.2
Akita Pref.	7	Lake Hachiro	27
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	7.7
Fukushima Pref.	9	Onahama Port	300
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	3.5
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	0.79
Chiba Pref.	12	Coast of Ichihara and Anegasaki	79
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	6.1
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	170
	15	Mouth of Riv. Sumida(Minato Ward)	590
Yokohama City	16	Yokohama Port	580
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	170
	18	Keihin Canal, Port of Kawasaki	1,500
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	2.6
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	3.9
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	34
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	0.26
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	0.78
Nagano Pref.	24	Lake Suwa(center)	53
Shizuoka Pref.	25	Shimizu Port	97
	26	Riv. Tenryu(Iwata City)	0.86
Aichi Pref.	27	Kinuura Port	48
	28	Nagoya Port	55
Mie Pref.	29	Yokkaichi Port	80
	30	Toba Port	86
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	55
8	32	Lake Biwa(center, offshore of Karasaki)	100
Kyoto Pref.	33	Miyazu Port	8.8
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	15
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	260
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	350
,	37	Mouth of Riv. Yodo(Osaka City)	370
	38	Osaka Port	1,800
	39	Outside Osaka Port	210
Hyogo Pref.	40	Offshore of Himeji	64
Kobe City	41	Kobe Port(center)	1,000
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	5.4
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	8.4
Okayama Pref.	44	Offshore of Mizushima	6.0
Hiroshima Pref.	45	Kure Port	400
	46	Hiroshima Bay	80
Yamaguchi Pref.	47	Tokuyama Bay	15
<i>g</i>	48	Offshore of Ube	14
	49	Offshore of Hagi	15
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	2.8
Kagawa Pref.	51	Takamatsu Port	210
Ehime Pref.	52	Niihama Port	0.50
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	4.0
Kitakyushu City	54	Dokai Bay	450
Fukuoka City	55	Hakata Bay	28
Saga Pref.	56	Imari Bay	31
Nagasaki Pref.	57	Omura Bay	31
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	1.5
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	0.34
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(0.13)
ragosiiilla i ici.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	0.67
Okinawa Pref.	62	Naha Port	770
(Note 1) Detection f	02	Inalia Foli	1/0

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-6-2] 2,3,3',4,4',5'-Hexachlorobiphenyl (#157)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :59/62(Missing value :0) Detection Frequency (sample) :59/62(Missing value :0) Detection limit :0.09 Quantification limit :0.24

	stats
Geometric mean	4.8
Median	5.5
Maximum	340
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	0.39
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	0.89
	3	Tomakomai Port	3.1
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	0.45
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	3.9
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	0.54
Akita Pref.	7	Lake Hachiro	5.9
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	1.7
Fukushima Pref.	9	Onahama Port	62
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	0.80
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(0.21)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	20
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	1.5
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	40
	15	Mouth of Riv. Sumida(Minato Ward)	120
Yokohama City	16	Yokohama Port	100
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	40
	18	Keihin Canal, Port of Kawasaki	280
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	0.56
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	0.96
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	7.1
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	tr(0.19)
Nagano Pref.	24	Lake Suwa(center)	12
Shizuoka Pref.	25	Shimizu Port	14
	26	Riv. Tenryu(Iwata City)	tr(0.22)
Aichi Pref.	27	Kinuura Port	12
	28	Nagoya Port	14
Mie Pref.	29	Yokkaichi Port	20
	30	Toba Port	8.5
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	14
	32	Lake Biwa(center, offshore of Karasaki)	22
Kyoto Pref.	33	Miyazu Port	2.0
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	3.2
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	63
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	86
Ţ	37	Mouth of Riv. Yodo(Osaka City)	90
	38	Osaka Port	340
	39	Outside Osaka Port	42
Hyogo Pref.	40	Offshore of Himeji	15
Kobe City	41	Kobe Port(center)	160
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	1.4
W 1 D C	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	2.1
Wakayama Pref.	43	City)	2.1
Okayama Pref.	44	Offshore of Mizushima	1.2
Hiroshima Pref.	45	Kure Port	73
	46	Hiroshima Bay	20
Yamaguchi Pref.	47	Tokuyama Bay	3.0
-	48	Offshore of Ube	2.8
	49	Offshore of Hagi	3.0
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	0.64
Kagawa Pref.	51	Takamatsu Port	43
Ehime Pref.	52	Niihama Port	tr(0.13)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	0.91
Kitakyushu City	54	Dokai Bay	96
Fukuoka City	55	Hakata Bay	6.4
Saga Pref.	56	Imari Bay	5.1
Nagasaki Pref.	57	Omura Bay	6.5
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	0.30
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(0.16)
Okinawa Pref.	62	Naha Port	110
(Note 1) Detection f		(cita) is bessed on the number of sites, thus means (the number of detected sites/the number	2 1 1 1

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-6-3] 2,3',4,4',5,5'-Hexachlorobiphenyl (#167)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.08 Quantification limit :0.21

	stats
Geometric mean	9.7
Median	12
Maximum	680
Minimum	tr(0.09)

Hokkaido	Local communities	No	Monitored sites	Measured value
Josephane			Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	
Jovate Pref. 4 Riv. Toyosawa(Hanamaki City) 0.71		2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1.7
Miyagai Pref. 5 Sendai Bay/Matsuchima Bay) 1.2		3	Tomakomai Port	6.4
Sendial City	Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	0.71
Akina Perf. 7	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	8.3
Yamagata Pref. 8 Mouth of Riv. Mogamifskata City) 2.9	Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	1.2
Fukushima Pref. 9 Onahama Port 110 Donahama Port 10 Tochiga Pref. 10 Tochiga Pref. 11 Togawa Kyubun Area Head Works/Usunomiya City) 0.37 Chiba Pref. 12 Coat of Chahara and Angeasaki 41 Chiba City 13 Mouth of Riv. Hanami(Chiba City) 2.5 Mouth of Riv. Arakawa Koto Ward) 7.3 Mouth of Riv. Mouth of Riv. Arakawa Koto Ward) 2.30 Mouth of Riv. Sunian(Mintao Ward) 2.20 Mouth of Riv. Arakawa Koto Ward) 2.20 Mouth of Riv. Tenyru(wata City) 2.21 Mouth of Riv. Tenyru(wata City) 2.22 Mouth of Riv. Tenyru(wata City) 2.23 Mouth of Riv. Mouth of R	Akita Pref.	7	Lake Hachiro	11
	Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	2.9
Tochigh Pref. 11 Tagawa Kyubun Area Head Works(Usunomiya City) 0.37 14 14 15 15 15 15 15 15	Fukushima Pref.	9	Onahama Port	110
Chiba Pref. 12 Coast of fehhara and Anegasaki	Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	1.4
Chiba City	Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	0.37
Tokyo Met.	Chiba Pref.	12	Coast of Ichihara and Anegasaki	41
15	Chiba City	13	Mouth of Riv. Hanami(Chiba City)	2.5
Yokohama Ciry	Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	73
Kawasaki City		15	Mouth of Riv. Sumida(Minato Ward)	230
Niigata Pref. 19	Yokohama City	16	Yokohama Port	260
Niigata Pref. 19	Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	69
Toyama Pref. 20 Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City) 12		18	Keihin Canal, Port of Kawasaki	610
Ishikawa Pref. 21 Mouth of Riv. Saif (Kanazawa City) 12 Fukui Pref. 22 Mishima-bashi Bridge, Riv. Shono(Tsuruga City) 0.37 Nagano Pref. 24 Lake Suwa(center) 0.37 Nagano Pref. 25 Shimizu Port 34 46 Riv. Tenryu(Iwata City) 0.36 Aichi Pref. 27 Kinuura Port 23 Aichi Pref. 29 Yokkaichi Port 23 Mie Pref. 29 Yokkaichi Port 32 Mie Pref. 29 Yokkaichi Port 35 30 Toba Port 32 Shiga Pref. 31 Lake Biwa(center, offshore of Minamihira) 22 Shiga Pref. 31 Lake Biwa(center, offshore of Karasaki) 33 Kyoto Pref. 33 Miyazu Port 3.4 Kyoto City 34 Miyamae-bashi Bridge, Riv. Katsura(Kyoto City) 6.0 Osaka City 35 Mouth of Riv. Yamato(Sakai City) 150 Ayaka Saka Port 96 96 Hyogo Pref. <t< td=""><td>Niigata Pref.</td><td>19</td><td></td><td>1.0</td></t<>	Niigata Pref.	19		1.0
Fukui Pref. 22 Mishima-bashi Bridge, Riv. Shono(Tsuruga City) tr(0.11)	Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	1.7
Yamanshi Pref. 23 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 20 20	Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	12
Nagano Pref. 24	Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(0.11)
Shizuoka Pref. 25 Shimizu Port 26 Riv. Tenryul(wata City) 0.36 Aichi Pref. 27 Kinuura Port 23 28 Nagoya Port 25 35 30 Toba Port 35 30 31 Lake Biwa(center, offshore of Minamihira) 22 32 Lake Biwa(center, offshore of Minamihira) 22 33 Toba Port 33 Myarau Port 33 Kyoto Pref. 33 Myarau Port 34 Myarau Port 35 Kyoto City 34 Myarau Post 35 Mouth of Riv. Yamato(Sakai City) 36 Kema-bashi Bridge, Riv. Katsura(Kyoto City) 40 Myarau Port 110 Osaka Pref. 35 Mouth of Riv. Yamato(Sakai City) 110 Osaka Pref. 36 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 160 38 Osaka Port 680 39 Outside Osaka Port 96 Hyogo Pref. 40 Offshore of Himeji 29 Kobe City 41 Kobe Port(center) 460 Nara Pref. 42 Taisho-bashi Bridge, Riv. Yamato(Oji Town) 2.4 Wakayama Pref. 43 Kinokawa-ohashi Bridge, Riv. Yamato(Oji Town) 2.4 Wakayama Pref. 44 Offshore of Mizushima 2.7 Hiroshima Pref. 45 Kure Port 190 46 Hiroshima Bay 6.8 48 Offshore of Ube 6.3 49 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Kushima Pref. 52 Nimama Port 53 Mouth of Riv. Shimanto(Shimanto City) 1.3 Saga Pref. 54 Mouth of Riv. Shimanto(Shimanto City) 1.5 Kagoshima Pref. 58 Mouth of Riv. Otado(City Shima City) 1.5 Kagoshima Pref. 59 Mouth of Riv. Otado(City Shima City) 1.5 Kagoshima Pref. 58 Mouth of Riv. Otado(City Shimana City) 1.5 Kagoshima Pref. 59 Mouth of Riv. Otado(City Shimana City) 1.5 Kagoshima Pref. 59 Mouth of Riv. Otado(City Shimana City) 1.5 Kagoshima Pref. 50 Mouth of Riv. Otado(City Shimana City) 1.5 Kagoshima Pref. 59 Mouth of Riv. Otado(City Shimana City) 1.7 Kagoshima Pref. 60 Riv. Amori(Kirishima City) 1.7 Kagoshima Pref. 60 Riv. Amori(Kirishima City	Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	0.37
Aichi Pref. 27 Kimuura Port 23 23 28 28 280 290 70 25 25 25 27 29 Yokkaichi Port 35 30 70 ba Port 32 32 32 32 32 32 33 33 34 34	Nagano Pref.	24	Lake Suwa(center)	20
Aichi Pref. 28 Nagoya Port 25 Nagoya Port 25 Nagoya Port 25 Nagoya Port 35 25 25 26 29 Yokaichi Port 35 30 Toba Port 32 22 23 25 25 25 25 25	Shizuoka Pref.	25	Shimizu Port	34
Mie Pref. 29 Yokkaichi Port 35 35 35 36 37 32 32 32 33 32 34 34 34		26	Riv. Tenryu(Iwata City)	0.36
Mie Pref. 29	Aichi Pref.	27	Kinuura Port	23
Shiga Pref. 31 Lake Biwa(center, offshore of Minamihira) 32 22 23 23 24 24 24 24		28	Nagoya Port	25
Shiga Pref. 31	Mie Pref.	29	Yokkaichi Port	35
Signature Sign		30	Toba Port	32
System S	Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	22
Kyoto City 34 Miyamae-bashi Bridge,Riv. Katsura(Kyoto City) 6.0 Osaka Pref. 35 Mouth of Riv. Yamato(Sakai City) 110 Osaka City 36 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 150 38 Osaka Port 680 39 Outside Osaka Port 96 Hyogo Pref. 40 Offshore of Himeji 29 Kobe City 41 Kobe Port(center) 460 Nara Pref. 42 Taisho-bashi Bridge, Riv. Yamato(Oji Town) 2.4 Wakayama Pref. 43 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) 3.3 Okayama Pref. 45 Kure Port 190 Hiroshima Bay 40 40 Yamaguchi Pref. 47 Tokuyama Bay 6.8 48 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 9.23 Kitakyushu City		32	Lake Biwa(center, offshore of Karasaki)	33
Osaka Pref. 35 Mouth of Riv. Yamato(Sakai City) 110 Osaka City 36 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 150 37 Mouth of Riv. Yodo(Osaka City) 160 38 Osaka Port 680 39 Outside Osaka Port 96 Hyogo Pref. 40 Offshore of Himeji 29 Kobe City 41 Kobe Port(center) 460 Nara Pref. 42 Taisho-bashi Bridge, Riv. Yamato(Oji Town) 2.4 Wakayama Pref. 43 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) 3.3 Okayama Pref. 44 Offshore of Mizushima 2.7 Hiroshima Pref. 45 Kure Port 190 46 Hiroshima Bay 40 Yamaguchi Pref. 47 Tokuyama Bay 6.8 48 Offshore of Ube 6.3 49 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port <t< td=""><td>Kyoto Pref.</td><td>33</td><td>Miyazu Port</td><td>3.4</td></t<>	Kyoto Pref.	33	Miyazu Port	3.4
Osaka Pref. 35 Mouth of Riv. Yamato(Sakai City) 110 Osaka City 36 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 150 37 Mouth of Riv. Yodo(Osaka City) 160 38 Osaka Port 680 39 Outside Osaka Port 96 Hyogo Pref. 40 Offshore of Himej 29 Kobe City 41 Kobe Port(center) 460 Nara Pref. 42 Taisho-bashi Bridge, Riv. Yamato(Oji Town) 2.4 Wakayama Pref. 43 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) 3.3 Okayama Pref. 44 Offshore of Mizushima 2.7 Hiroshima Pref. 45 Kure Port 190 44 Hiroshima Bay 40 Yamaguchi Pref. 47 Tokuyama Bay 6.8 48 Offshore of Ube 6.3 49 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagaya Pref. 51 Takamatsu Port <td< td=""><td>Kyoto City</td><td>34</td><td>Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)</td><td>6.0</td></td<>	Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	6.0
37 Mouth of Riv. Yodo(Osaka City) 160 38 Osaka Port 39 Outside Osaka Port 96 96 140 Offshore of Himeji 29 140 141 140	Osaka Pref.	35		110
38	Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	150
39 Outside Osaka Port 96	-	37	Mouth of Riv. Yodo(Osaka City)	160
Hyogo Pref. 40 Offshore of Himeji 29		38	Osaka Port	680
Kobe City 41 Kobe Port(center) 460 Nara Pref. 42 Taisho-bashi Bridge, Riv. Yamato(Oji Town) 2.4 Wakayama Pref. 43 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) 3.3 Okayama Pref. 44 Offshore of Mizushima 2.7 Hiroshima Pref. 45 Kure Port 190 46 Hiroshima Bay 40 Yamaguchi Pref. 47 Tokuyama Bay 6.8 48 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref.		39	Outside Osaka Port	96
Kobe City 41 Kobe Port(center) 460 Nara Pref. 42 Taisho-bashi Bridge, Riv. Yamato(Oji Town) 2.4 Wakayama Pref. 43 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) 3.3 Okayama Pref. 44 Offshore of Mizushima 2.7 Hiroshima Pref. 45 Kure Port 190 46 Hiroshima Bay 40 Yamaguchi Pref. 47 Tokuyama Bay 6.8 48 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref.	Hyogo Pref.	40	Offshore of Himeji	29
Wakayama Pref. 43 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) 3.3 Okayama Pref. 44 Offshore of Mizushima 2.7 Hiroshima Pref. 45 Kure Port 190 46 Hiroshima Bay 40 Yamaguchi Pref. 47 Tokuyama Bay 6.8 48 Offshore of Ube 6.3 49 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 58 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref.		41	Kobe Port(center)	460
Wakayama Pref. 43 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) 3.3 Okayama Pref. 44 Offshore of Mizushima 2.7 Hiroshima Pref. 45 Kure Port 190 46 Hiroshima Bay 40 Yamaguchi Pref. 47 Tokuyama Bay 6.3 48 Offshore of Ube 6.3 49 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref.	Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	2.4
Wakayama Pref. 43 City) 3.3 Okayama Pref. 44 Offshore of Mizushima 2.7 Hiroshima Pref. 45 Kure Port 190 46 Hiroshima Bay 40 Yamaguchi Pref. 47 Tokuyama Bay 6.8 48 Offshore of Ube 6.3 49 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19)	W. 1 D. C	40		2.2
Hiroshima Pref. 45 Kure Port 190 46 Hiroshima Bay 40 Yamaguchi Pref. 47 Tokuyama Bay 6.8 48 Offshore of Ube 6.3 49 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino Cit	Wakayama Pref.	43	1	3.3
Yamaguchi Pref. 46 Hiroshima Bay 40 Yamaguchi Pref. 47 Tokuyama Bay 6.8 48 Offshore of Ube 6.3 49 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 54 Dokai Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29	Okayama Pref.	44	Offshore of Mizushima	2.7
Yamaguchi Pref. 47 Tokuyama Bay 6.8 48 Offshore of Ube 6.3 49 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29		45	Kure Port	190
Yamaguchi Pref. 47 Tokuyama Bay 6.8 48 Offshore of Ube 6.3 49 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29				
49 Offshore of Hagi 5.8 Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29	Yamaguchi Pref.	47	Tokuyama Bay	6.8
Tokushima Pref. 50 Mouth of Riv. Yoshino(Tokushima City) 1.2 Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29	C	48	Offshore of Ube	6.3
Kagawa Pref. 51 Takamatsu Port 80 Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29		49	Offshore of Hagi	5.8
Ehime Pref. 52 Niihama Port 0.28 Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) Kagoshima Pref. 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29	Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	1.2
Kochi Pref. 53 Mouth of Riv. Shimanto(Shimanto City) 2.3 Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29	Kagawa Pref.	51	Takamatsu Port	80
Kitakyushu City 54 Dokai Bay 180 Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29	Ehime Pref.	52	Niihama Port	0.28
Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29	Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	2.3
Fukuoka City 55 Hakata Bay 13 Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29			• • • • • • • • • • • • • • • • • • • •	180
Saga Pref. 56 Imari Bay 14 Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29	Fukuoka City		Hakata Bay	13
Nagasaki Pref. 57 Omura Bay 15 Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29			·	
Oita Pref. 58 Mouth of Riv. Oita(Oita City) 0.60 Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29				15
Miyazaki Pref. 59 Mouth of Riv. Oyodo(Miyazaki City) tr(0.19) Kagoshima Pref. 60 Riv. Amori(Kirishima City) tr(0.09) 61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29	0		·	
Kagoshima Pref.60Riv. Amori(Kirishima City)tr(0.09)61Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)0.29			` */	
61 Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) 0.29	•			\ /
87 \ 17	5			
Okinawa Pref. 62 Naha Port 350	Okinawa Pref.			

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-6-4] 3,3',4,4',5,5'-Hexachlorobiphenyl (#169)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :29/62(Missing value :0) Detection Frequency (sample) :29/62(Missing value :0) Detection limit :0.1 Quantification limit :0.4

	stats
Geometric mean	tr(0.3)
Median	nd
Maximum	27
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(0.1)
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(0.2)
	3	Tomakomai Port	tr(0.3)
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	1.2
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	tr(0.1)
Akita Pref.	7	Lake Hachiro	1.3
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	nd
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	1.4
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	4.7
	15	Mouth of Riv. Sumida(Minato Ward)	6.3
Yokohama City	16	Yokohama Port	14
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	2.3
	18	Keihin Canal, Port of Kawasaki	10
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	0.8
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	3.7
Shizuoka Pref.	25	Shimizu Port	nd
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	nd
) () D ()	28	Nagoya Port	nd
Mie Pref.	29	Yokkaichi Port	nd
CI. D. C	30	Toba Port	nd
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	nd
II , D C	32	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	tr(0.2)
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	8.6
Osaka City	36 37	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	6.8
		Mouth of Riv. Yodo(Osaka City) Osaka Port	
	38	Outside Osaka Port	6.5 nd
Hyogo Pref.	40	Offshore of Himeji	4.4
Kobe City	41	Kobe Port(center)	27
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	tr(0.3)
Ivala Fiel.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	u(0.3)
Wakayama Pref.	43	City)	nd
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	nd
Tritosimila i ici.	46	Hiroshima Bay	nd
Yamaguchi Pref.	47	Tokuyama Bay	nd
1 umagacini i ici.	48	Offshore of Ube	0.7
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	tr(0.1)
Kagawa Pref.	51	Takamatsu Port	1.9
Ehime Pref.	52	Niihama Port	tr(0.1)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	4.3
Fukuoka City	55	Hakata Bay	nd
Saga Pref.	56	Imari Bay	2.5
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
<i>G</i>	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	20
(Note 1) Detection f		(cita) is based on the number of citas, thus means (the number of detected citas/the number	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-7] Heptachlorobiphenyls/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :60/62(Missing value :0) Detection Frequency (sample) :60/62(Missing value :0) Detection limit :0.3 Quantification limit :0.9

	stats
Geometric mean	260
Median	460
Maximum	33,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	25
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	30
	3	Tomakomai Port	650
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	7.1
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	350
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	54
Akita Pref.	7	Lake Hachiro	170
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	31
Fukushima Pref.	9	Onahama Port	2,300
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	24
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	5.3
Chiba Pref.	12	Coast of Ichihara and Anegasaki	1,800
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	37
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	1,500
V-11	15	Mouth of Riv. Sumida(Minato Ward) Yokohama Port	5,700
Yokohama City	16 17		18,000 960
Kawasaki City	18	Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki	32,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	17
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	38
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	390
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(0.6)
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	3.8
Nagano Pref.	24	Lake Suwa(center)	560
Shizuoka Pref.	25	Shimizu Port	4,100
Singwone 1101.	26	Riv. Tenryu(Iwata City)	4.4
Aichi Pref.	27	Kinuura Port	1,100
	28	Nagoya Port	800
Mie Pref.	29	Yokkaichi Port	1,000
	30	Toba Port	5,900
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	420
	32	Lake Biwa(center, offshore of Karasaki)	430
Kyoto Pref.	33	Miyazu Port	200
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	60
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	1,400
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,300
	37	Mouth of Riv. Yodo(Osaka City)	1,500
	38	Osaka Port	33,000
	39	Outside Osaka Port	4,700
Hyogo Pref.	40	Offshore of Himeji	690
Kobe City	41	Kobe Port(center)	30,000
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	30
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	59
Ol D C	4.4	City) Offshore of Mizushima	210
Okayama Pref.	44		210
Hiroshima Pref.	45 46	Kure Port Hiroshima Bay	21,000 2,700
Yamaguchi Pref.	47	Tokuyama Bay	910
i amagucili Fiel.	48	Offshore of Ube	510
	49	Offshore of Hagi	480
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	27
Kagawa Pref.	51	Takamatsu Port	2,100
Ehime Pref.	52	Niihama Port	10
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	65
Kitakyushu City	54	Dokai Bay	7,400
Fukuoka City	55	Hakata Bay	380
Saga Pref.	56	Imari Bay	1,200
Nagasaki Pref.	57	Omura Bay	820
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	65
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	2.8
Okinawa Pref.	62	Naha Port	31,000
01 . 1) 5		y (site) is based on the number of sites, thus means (the number of detected sites/the number	C 1 1 1

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[1-7-1] 2,2',3,3',4,4',5-Heptachlorobiphenyl (#170)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :60/62(Missing value :0) Detection Frequency (sample) :60/62(Missing value :0) Detection limit :0.2 Quantification limit :0.5

	stats
Geometric mean	34
Median	57
Maximum	3,800
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	3.3
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	4.2
	3	Tomakomai Port	67
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	1.3
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	35
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	5.8
Akita Pref.	7	Lake Hachiro	26
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	4.7
Fukushima Pref.	9	Onahama Port	320
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	3.5
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	0.8
Chiba Pref.	12	Coast of Ichihara and Anegasaki	180
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	5.5
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	200
	15	Mouth of Riv. Sumida(Minato Ward)	730
Yokohama City	16	Yokohama Port	2,100
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	150
	18	Keihin Canal, Port of Kawasaki	3,600
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	2.5
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	4.8
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	47
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(0.2)
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	0.6
Nagano Pref.	24	Lake Suwa(center)	74
Shizuoka Pref.	25	Shimizu Port	470
	26	Riv. Tenryu(Iwata City)	0.7
Aichi Pref.	27	Kinuura Port	110
	28	Nagoya Port	95
Mie Pref.	29	Yokkaichi Port	130
	30	Toba Port	590
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	63
8	32	Lake Biwa(center, offshore of Karasaki)	71
Kyoto Pref.	33	Miyazu Port	19
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	10
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	220
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	200
o sum o ny	37	Mouth of Riv. Yodo(Osaka City)	210
	38	Osaka Port	3,700
	39	Outside Osaka Port	520
Hyogo Pref.	40	Offshore of Himeji	71
Kobe City	41	Kobe Port(center)	3,200
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	4.3
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	-
Wakayama Pref.	43	City)	8.3
Okayama Pref.	44	Offshore of Mizushima	17
Hiroshima Pref.	45	Kure Port	2,100
	46	Hiroshima Bay	240
Yamaguchi Pref.	47	Tokuyama Bay	81
- amagacin i ici.	48	Offshore of Ube	50
	49	Offshore of Hagi	47
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	3.5
Kagawa Pref.	51	Takamatsu Port	280
Ehime Pref.	52	Niihama Port	0.8
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	7.6
Kitakyushu City	54	Dokai Bay	780
Fukuoka City	55	Hakata Bay	42
Saga Pref.	56	Imari Bay	120
Nagasaki Pref.	57	Omura Bay	80
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	5.3
Miyazaki Pref.	59	Mouth of Riv. Ora(Ora City) Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City) Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd tr(0.4)
Okinawa Pref.			3,800
(Note 1) Detection f	62	Naha Port	3,800

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[1-7-2] 2,2',3,4,4',5,5'-Heptachlorobiphenyl (#180)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :60/62(Missing value :0) Detection Frequency (sample) :60/62(Missing value :0) Detection limit :0.2 Quantification limit :0.5

	stats
Geometric mean	77
Median	120
Maximum	10,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	7.6
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	8.9
	3	Tomakomai Port	200
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	2.1
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	94
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	16
Akita Pref.	7	Lake Hachiro	49
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	9.0
Fukushima Pref.	9	Onahama Port	700
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	6.6
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	1.5
Chiba Pref.	12	Coast of Ichihara and Anegasaki	480
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	11
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	380
	15	Mouth of Riv. Sumida(Minato Ward)	1,600
Yokohama City	16	Yokohama Port	5,200
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	270
	18	Keihin Canal, Port of Kawasaki	10,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	4.7
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	11
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	110
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	0.5
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	1.3
Nagano Pref.	24	Lake Suwa(center)	150
Shizuoka Pref.	25	Shimizu Port	1,300
	26	Riv. Tenryu(Iwata City)	1.5
Aichi Pref.	27	Kinuura Port	260
	28	Nagoya Port	220
Mie Pref.	29	Yokkaichi Port	300
	30	Toba Port	1,700
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	110
	32	Lake Biwa(center, offshore of Karasaki)	110
Kyoto Pref.	33	Miyazu Port	45
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	17
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	420
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	360
	37	Mouth of Riv. Yodo(Osaka City)	410
	38	Osaka Port	9,700
	39	Outside Osaka Port	1,300
Hyogo Pref.	40	Offshore of Himeji	170
Kobe City	41	Kobe Port(center)	7,600
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	8.6
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	18
wakayama 1 ici.	73	City)	10
Okayama Pref.	44	Offshore of Mizushima	50
Hiroshima Pref.	45	Kure Port	5,900
	46	Hiroshima Bay	680
Yamaguchi Pref.	47	Tokuyama Bay	250
	48	Offshore of Ube	140
	49	Offshore of Hagi	130
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	7.4
Kagawa Pref.	51	Takamatsu Port	630
Ehime Pref.	52	Niihama Port	2.1
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	20
Kitakyushu City	54	Dokai Bay	2,200
Fukuoka City	55	Hakata Bay	100
Saga Pref.	56	Imari Bay	340
Nagasaki Pref.	57	Omura Bay	220
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	15
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
011	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	0.8
Okinawa Pref.	62	Naha Port	8,300

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-7-3] 2,3,3',4,4',5,5'-Heptachlorobiphenyl (#189)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :54/62(Missing value :0) Detection Frequency (sample) :54/62(Missing value :0) Detection limit :0.08 Quantification limit :0.22

	stats
Geometric mean	1.9
Median	2.2
Maximum	160
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(0.11)
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	0.27
	3	Tomakomai Port	2.0
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	tr(0.09)
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	2.1
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	tr(0.20)
Akita Pref.	7	Lake Hachiro	2.1
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	0.33
Fukushima Pref.	9	Onahama Port	15
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	6.9
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	0.32
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	11
·	15	Mouth of Riv. Sumida(Minato Ward)	39
Yokohama City	16	Yokohama Port	88
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	8.3
•	18	Keihin Canal, Port of Kawasaki	130
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	tr(0.17)
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	0.33
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	2.0
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	5.3
Shizuoka Pref.	25	Shimizu Port	17
	26	Riv. Tenryu(Iwata City)	tr(0.08)
Aichi Pref.	27	Kinuura Port	5.3
	28	Nagoya Port	4.8
Mie Pref.	29	Yokkaichi Port	6.4
	30	Toba Port	19
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	5.5
6	32	Lake Biwa(center, offshore of Karasaki)	5.6
Kyoto Pref.	33	Miyazu Port	1.1
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	0.50
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	15
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	12
	37	Mouth of Riv. Yodo(Osaka City)	13
	38	Osaka Port	140
	39	Outside Osaka Port	23
Hyogo Pref.	40	Offshore of Himeji	4.6
Kobe City	41	Kobe Port(center)	120
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	0.31
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	0.50
Okayama Pref.	44	Offshore of Mizushima	0.96
Hiroshima Pref.	45	Kure Port	88
	46	Hiroshima Bay	12
Yamaguchi Pref.	47	Tokuyama Bay	4.0
r amagaem r rei.	48	Offshore of Ube	2.2
	49	Offshore of Hagi	2.0
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	0.22
Kagawa Pref.	51	Takamatsu Port	14
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	0.36
Kitakyushu City	54	Dokai Bay	36
Fukuoka City	55	Hakata Bay	2.1
Saga Pref.	56	Imari Bay	4.9
Nagasaki Pref.	57	Omura Bay	4.1
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	0.28
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
ragosiiilla i ici.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	160
		v (site) is based on the number of sites, thus means (the number of detected sites/the number	l

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-8] Octachlorobiphenyls/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :59/62(Missing value :0) Detection Frequency (sample) :59/62(Missing value :0) Detection limit :0.1 Quantification limit :0.3

	stats
Geometric mean	51
Median	94
Maximum	14,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	4.1
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	4.2
	3	Tomakomai Port	140
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	0.6
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	74
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	8.8
Akita Pref.	7	Lake Hachiro	27
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	3.6
Fukushima Pref.	9	Onahama Port	580
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	5.4
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	1.1
Chiba Pref.	12	Coast of Ichihara and Anegasaki	490
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	9.3
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	230
	15	Mouth of Riv. Sumida(Minato Ward)	930
Yokohama City	16	Yokohama Port	4,200
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	120
	18	Keihin Canal, Port of Kawasaki	6,400
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	2.2
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	6.8
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	56
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	0.3
Nagano Pref.	24	Lake Suwa(center)	96
Shizuoka Pref.	25	Shimizu Port	1,100
4:1:D C	26	Riv. Tenryu(Iwata City)	0.5
Aichi Pref.	27	Kinuura Port	230
M: D C	28	Nagoya Port	160
Mie Pref.	29	Yokkaichi Port	230
China Duaf	30	Toba Port	1,300
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira) Lake Biwa(center, offshore of Karasaki)	62
Vt- Df		Mivazu Port	
Kyoto Pref. Kyoto City	33	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	48
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	280
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	310
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	300
	38	Osaka Port	5,900
	39	Outside Osaka Port	910
Hyogo Pref.	40	Offshore of Himeji	220
Kobe City	41	Kobe Port(center)	14,000
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	8.4
Ivara i ici.	72	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	0.4
Wakayama Pref.	43	City)	8.7
Okayama Pref.	44	Offshore of Mizushima	46
Hiroshima Pref.	45	Kure Port	6,000
1111 0 511111111 1 1 1 1 1 1	46	Hiroshima Bay	630
Yamaguchi Pref.	47	Tokuyama Bay	320
Tumagaem Tren	48	Offshore of Ube	110
	49	Offshore of Hagi	130
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	3.8
Kagawa Pref.	51	Takamatsu Port	400
Ehime Pref.	52	Niihama Port	2.0
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	13
Kitakyushu City	54	Dokai Bay	1,500
Fukuoka City	55	Hakata Bay	80
Saga Pref.	56	Imari Bay	250
Nagasaki Pref.	57	Omura Bay	200
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	13
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	0.5
Okinawa Pref.	62	Naha Port	8,500
(Note 1) Detection f		y (gita) is begad on the number of gites, thus means (the number of detected gites/the number	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

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Quantification limit :0.4

[1-9] Nonachlorobiphenyls/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :58/62(Missing value :0) Detection Frequency (sample) :58/62(Missing value :0) Detection limit :0.1

	stats
Geometric mean	7.8
Median	13
Maximum	980
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(0.2)
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1.1
	3	Tomakomai Port	9.6
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	tr(0.1)
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	17
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	0.7
Akita Pref.	7	Lake Hachiro	8.8
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	1.2
Fukushima Pref.	9	Onahama Port	63
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	3.4
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(0.1)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	42
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	1.2
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	43
	15	Mouth of Riv. Sumida(Minato Ward)	150
Yokohama City	16	Yokohama Port	440
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	18
	18	Keihin Canal, Port of Kawasaki	510
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	0.6
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	1.6
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	5.0
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	23
Shizuoka Pref.	25	Shimizu Port	76
4: 1: D. C	26	Riv. Tenryu(Iwata City)	tr(0.2)
Aichi Pref.	27	Kinuura Port	23
Mie Pref.	28 29	Nagoya Port Yokkaichi Port	20
Mie Prei.			
Shiga Pref.	30	Toba Port Lake Biwa(center, offshore of Minamihira)	75 26
Siliga Fiel.	32	Lake Biwa(center, offshore of Karasaki)	14
Kyoto Pref.	33	Miyazu Port	6.2
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	0.5
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	46
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	47
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	39
	38	Osaka Port	660
	39	Outside Osaka Port	120
Hyogo Pref.	40	Offshore of Himeji	25
Kobe City	41	Kobe Port(center)	980
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	1.2
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	1.5
Okayama Pref.	44	Offshore of Mizushima	5.1
Hiroshima Pref.	45	Kure Port	620
	46	Hiroshima Bay	57
Yamaguchi Pref.	47	Tokuyama Bay	34
	48	Offshore of Ube	9.3
	49	Offshore of Hagi	10
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	0.7
Kagawa Pref.	51	Takamatsu Port	46
Ehime Pref.	52	Niihama Port	1.5
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	1.4
Kitakyushu City	54	Dokai Bay	150
Fukuoka City	55	Hakata Bay	11
Saga Pref.	56	Imari Bay	18
Nagasaki Pref.	57	Omura Bay	52
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	1.1
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
Transcomma Trem	- 0		
Okinawa Pref.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(0.1)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[1-10] Decachlorobiphenyl/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :54/62(Missing value :0) Detection Frequency (sample) :54/62(Missing value :0) Detection limit :0.2 Quantification limit :0.4

	stats
Geometric mean	7.6
Median	9.9
Maximum	2,500
Minimum	nd

ocal communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(0.2)
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1.6
	3	Tomakomai Port	3.1
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	68
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	19
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	2.2
Fukushima Pref.	9	Onahama Port	380
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	12
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	47
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	1.0
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	73
	15	Mouth of Riv. Sumida(Minato Ward)	270
Yokohama City	16	Yokohama Port	2,500
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	17
	18	Keihin Canal, Port of Kawasaki	460
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	1.0
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	2.4
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	3.5
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	20
Shizuoka Pref.	25	Shimizu Port	10
	26	Riv. Tenryu(Iwata City)	5.1
Aichi Pref.	27	Kinuura Port	45
	28	Nagoya Port	10
Mie Pref.	29	Yokkaichi Port	24
	30	Toba Port	6.5
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	87
	32	Lake Biwa(center, offshore of Karasaki)	11
Kyoto Pref.	33	Miyazu Port	5.6
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	0.4
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	33
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	29
	37	Mouth of Riv. Yodo(Osaka City)	26
	38	Osaka Port	210
	39	Outside Osaka Port	89
Hyogo Pref.	40	Offshore of Himeji	14
Kobe City	41	Kobe Port(center)	120
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	0.8
XII D.C	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	1.2
Wakayama Pref.	43	City)	1.2
Okayama Pref.	44	Offshore of Mizushima	3.0
Hiroshima Pref.	45	Kure Port	740
Hiroshima Pref.	45 46		740 25
	46	Hiroshima Bay	25
		Hiroshima Bay Tokuyama Bay	
	46 47 48	Hiroshima Bay Tokuyama Bay Offshore of Ube	25 16 9.8
/amaguchi Pref.	46 47 48 49	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi	25 16 9.8 2.4
Yamaguchi Pref. Tokushima Pref.	46 47 48	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City)	25 16 9.8
Yamaguchi Pref. Tokushima Pref. Kagawa Pref.	46 47 48 49 50 51	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port	25 16 9.8 2.4 0.8 38
Yamaguchi Pref. Tokushima Pref. Kagawa Pref. Ehime Pref.	46 47 48 49 50	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port	25 16 9.8 2.4 0.8
Yamaguchi Pref. Tokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref.	46 47 48 49 50 51 52 53	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City)	25 16 9.8 2.4 0.8 38 9.3 1.3
Yamaguchi Pref. Fokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City	46 47 48 49 50 51 52 53 54	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay	25 16 9.8 2.4 0.8 38 9.3 1.3 1,100
Yamaguchi Pref. Fokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City	46 47 48 49 50 51 52 53 54 55	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay	25 16 9.8 2.4 0.8 38 9.3 1.3 1,100 8.9
Yamaguchi Pref. Fokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref.	46 47 48 49 50 51 52 53 54 55 56	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay	25 16 9.8 2.4 0.8 38 9.3 1.3 1,100 8.9 7.1
Yamaguchi Pref. Fokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref.	46 47 48 49 50 51 52 53 54 55 56	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay	25 16 9.8 2.4 0.8 38 9.3 1.3 1,100 8.9 7.1
Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref.	46 47 48 49 50 51 52 53 54 55 56 57	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay Mouth of Riv. Oita(Oita City)	25 16 9.8 2.4 0.8 38 9.3 1.3 1,100 8.9 7.1 78 tr(0.2)
Yamaguchi Pref. Tokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref. Miyazaki Pref.	46 47 48 49 50 51 52 53 54 55 56 57 58	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay Mouth of Riv. Oita(Oita City) Mouth of Riv. Oyodo(Miyazaki City)	25 16 9.8 2.4 0.8 38 9.3 1.3 1,100 8.9 7.1 78 tr(0.2)
Yamaguchi Pref. Fokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref.	46 47 48 49 50 51 52 53 54 55 56 57	Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay Mouth of Riv. Oita(Oita City)	25 16 9.8 2.4 0.8 38 9.3 1.3 1,100 8.9 7.1 78 tr(0.2)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[2] Hexachlorobenzene/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :1 Quantification limit :3

	stats
Geometric mean	82
Median	65
Maximum	11,000
Minimum	3

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	19
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	110
	3	Tomakomai Port	92
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	21
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	600
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	42
Akita Pref.	7	Lake Hachiro	82
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	52
Fukushima Pref.	9	Onahama Port	11,000
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	150
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	8
Chiba Pref.	12	Coast of Ichihara and Anegasaki	180
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	20
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	1,000
	15	Mouth of Riv. Sumida(Minato Ward)	1,000
Yokohama City	16	Yokohama Port	360
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	320
N D. C	18	Keihin Canal, Port of Kawasaki	1,100
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	55
Toyama Pref. Ishikawa Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	51
	21	Mouth of Riv. Sai(Kanazawa City)	90
Fukui Pref. Yamanashi Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	8
Nagano Pref.	24	Lake Suwa(center)	620
Shizuoka Pref.	25	Shimizu Port	100
Silizuoka Fiel.	26	Riv. Tenryu(Iwata City)	34
Aichi Pref.	27	Kinuura Port	59
Alcin Fiel.	28	Nagoya Port	70
Mie Pref.	29	Yokkaichi Port	150
WHE I ICI.	30	Toba Port	66
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	180
Singu i ici.	32	Lake Biwa(center, offshore of Karasaki)	52
Kyoto Pref.	33	Miyazu Port	20
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	27
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	280
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	240
,	37	Mouth of Riv. Yodo(Osaka City)	290
	38	Osaka Port	830
	39	Outside Osaka Port	190
Hyogo Pref.	40	Offshore of Himeji	90
Kobe City	41	Kobe Port(center)	150
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	23
W-1 Df	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	5.6
Wakayama Pref.	43	City)	56
Okayama Pref.	44	Offshore of Mizushima	21
Hiroshima Pref.	45	Kure Port	320
	46	Hiroshima Bay	56
Yamaguchi Pref.	47	Tokuyama Bay	200
	48	Offshore of Ube	48
	49	Offshore of Hagi	21
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	37
Kagawa Pref.	51	Takamatsu Port	280
Ehime Pref.	52	Niihama Port	130
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	46
Kitakyushu City	54	Dokai Bay	1,200
Fukuoka City	55	Hakata Bay	32
Saga Pref.	56	Imari Bay	62
Nagasaki Pref.	57	Omura Bay	42
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	6
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	14
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	5
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	7
Okinawa Pref.	62	Naha Port	63
(NI.4. 1) D.4. 4' (y (sita) is based on the number of sites, thus means (the number of detected sites/the number of	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[7]Chlordanes/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :60/62(Missing value :0) Detection Frequency (sample) :60/62(Missing value :0) Detection limit :*6.3 Quantification limit :*20

	stats
Geometric mean	170
Median	150
Maximum	9,400
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(15)
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	280
	3	Tomakomai Port	39
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	tr(13)
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	65
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	200
Akita Pref.	7	Lake Hachiro	110
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	53
Fukushima Pref.	9	Onahama Port	540
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	65
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	64
Chiba Pref.	12	Coast of Ichihara and Anegasaki	250
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	450
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	3,300
	15	Mouth of Riv. Sumida(Minato Ward)	8,400
Yokohama City	16	Yokohama Port	590
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	2,700
	18	Keihin Canal, Port of Kawasaki	690
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	100
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	120
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	570
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	100
Nagano Pref.	24	Lake Suwa(center)	640
Shizuoka Pref.	25	Shimizu Port	240
	26	Riv. Tenryu(Iwata City)	23
Aichi Pref.	27	Kinuura Port	120
	28	Nagoya Port	200
Mie Pref.	29	Yokkaichi Port	210
	30	Toba Port	110
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	1,200
	32	Lake Biwa(center, offshore of Karasaki)	240
Kyoto Pref.	33	Miyazu Port	tr(14)
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	79
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	6,300
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	4,300
	37	Mouth of Riv. Yodo(Osaka City)	1,800
	38	Osaka Port	2,400
	39	Outside Osaka Port	290
Hyogo Pref.	40	Offshore of Himeji	280
Kobe City	41	Kobe Port(center)	310
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	490
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	95
Okayama Pref.	44	City) Offshore of Mizushima	22
Hiroshima Pref.	45	V. D.	280
Tillosillila Fiel.	46	Kure Port Hiroshima Bay	290
Yamaguchi Pref.	47	Tokuyama Bay	58
i amagucini Fiei.	48	Offshore of Ube	78
	49	Offshore of Hagi	tr(8.3)
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	40
Kagawa Pref.	51	Takamatsu Port	9,400
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	87
Kitakyushu City	54	Dokai Bay	450
Fukuoka City	55	Hakata Bay	160
Saga Pref.	56	Imari Bay	84
Nagasaki Pref.	57	Omura Bay	97
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	28
Miyazaki Pref.	59	Mouth of Riv. Ora(Ona City) Mouth of Riv. Oyodo(Miyazaki City)	70
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	34
Kagosiiima Piei.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	140
Okinawa Pref.	62	Naha Port	9,400
(Nata 1) Datastian f	02	[Nana Port	9,400

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

 $(Note\ 3)\ tr: detection\ limit\ value\ and\ more,\ less\ than\ Quantification\ limit\ value.$

(Note 4) nd: Not detected

(Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[7-1]cis-Chlordane/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :61/62(Missing value :0) Detection Frequency (sample) :61/62(Missing value :0) Detection limit :1.6 Quantification limit :4.8

	stats
Geometric mean	47
Median	36
Maximum	2,800
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(3.0)
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	50
	3	Tomakomai Port	10
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	tr(2.8)
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	14
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	57
Akita Pref.	7	Lake Hachiro	30
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	14
Fukushima Pref.	9	Onahama Port	140
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	17
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	16
Chiba Pref.	12	Coast of Ichihara and Anegasaki	57
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	120
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	960
,	15	Mouth of Riv. Sumida(Minato Ward)	2,600
Yokohama City	16	Yokohama Port	150
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	700
rea wasani City	18	Keihin Canal, Port of Kawasaki	170
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	29
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	29
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	150
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	26
Nagano Pref.	24	Lake Suwa(center)	210
Shizuoka Pref.	25	Shimizu Port	63
Silizuoka Fiel.	26	Riv. Tenryu(Iwata City)	5.7
Aichi Pref.	27	Kinuura Port	27
Aichi Prei.			
Mi- Df	28	Nagoya Port Yokkaichi Port	52
Mie Pref.	29		51
CI. D. C	30	Toba Port	29
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	390
Y/ . D 0	32	Lake Biwa(center, offshore of Karasaki)	68
Kyoto Pref.	33	Miyazu Port	tr(4.0)
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	22
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	1,700
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,100
	37	Mouth of Riv. Yodo(Osaka City)	500
	38	Osaka Port	620
	39	Outside Osaka Port	73
Hyogo Pref.	40	Offshore of Himeji	71
Kobe City	41	Kobe Port(center)	85
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	130
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	25
•		City)	
Okayama Pref.	44	Offshore of Mizushima	5.9
Hiroshima Pref.	45	Kure Port	64
	46	Hiroshima Bay	66
Yamaguchi Pref.	47	Tokuyama Bay	15
	48	Offshore of Ube	23
	49	Offshore of Hagi	tr(2.3)
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	10
Kagawa Pref.	51	Takamatsu Port	2,500
Ehime Pref.	52	Niihama Port	tr(1.7)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	22
Kitakyushu City	54	Dokai Bay	110
Fukuoka City	55	Hakata Bay	39
Saga Pref.	56	Imari Bay	21
		O D	22
Nagasaki Pref.	57	Omura Bay	22
Nagasaki Pref. Oita Pref.	58	Mouth of Riv. Oita(Oita City)	7.7
		Mouth of Riv. Oita(Oita City) Mouth of Riv. Oyodo(Miyazaki City)	
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	7.7 17 7.8
Oita Pref. Miyazaki Pref.	58 59	Mouth of Riv. Oita(Oita City) Mouth of Riv. Oyodo(Miyazaki City)	7.7 17

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[7-2]trans-Chlordane/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :1 Quantification limit :4

	stats
Geometric mean	53
Median	41
Maximum	3,000
Minimum	tr(1)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	7
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	150
	3	Tomakomai Port	16
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	4
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	22
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	63
Akita Pref.	7	Lake Hachiro	31
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	15
Fukushima Pref.	9	Onahama Port	180
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	18
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	20
Chiba Pref.	12	Coast of Ichihara and Anegasaki	72
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	120
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	930
	15	Mouth of Riv. Sumida(Minato Ward)	2,500
Yokohama City	16	Yokohama Port	170
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	690
	18	Keihin Canal, Port of Kawasaki	200
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	32
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	33
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	170
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(2)
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	28
Nagano Pref.	24	Lake Suwa(center)	180
Shizuoka Pref.	25	Shimizu Port	70
	26	Riv. Tenryu(Iwata City)	6
Aichi Pref.	27	Kinuura Port	34
	28	Nagoya Port	56
Mie Pref.	29	Yokkaichi Port	58
	30	Toba Port	30
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	300
	32	Lake Biwa(center, offshore of Karasaki)	58
Kyoto Pref.	33	Miyazu Port	4
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	24
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	1,800
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,100
	37	Mouth of Riv. Yodo(Osaka City)	470
	38	Osaka Port	650
	39	Outside Osaka Port	73
Hyogo Pref.	40	Offshore of Himeji	81
Kobe City	41	Kobe Port(center)	90
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	130
W. 1 D. 0	40	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	9.5
Wakayama Pref.	43	City)	25
Okayama Pref.	44	Offshore of Mizushima	6
Hiroshima Pref.	45	Kure Port	80
	46	Hiroshima Bay	86
Yamaguchi Pref.	47	Tokuyama Bay	16
	48	Offshore of Ube	25
	49	Offshore of Hagi	tr(2)
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	11
Kagawa Pref.	51	Takamatsu Port	2,800
Ehime Pref.	52	Niihama Port	tr(1)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	24
Kitakyushu City	54	Dokai Bay	150
Fukuoka City	55	Hakata Bay	44
Saga Pref.	56	Imari Bay	24
Nagasaki Pref.	57	Omura Bay	26
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	8
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	18
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	10
5	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	38
Okinawa Pref.	62	Naha Port	3,000
(Note 1) Detection f		(cita) is bessed on the number of sites, thus means (the number of detected sites/the number	2,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[7-3]Oxychlordane/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :41/62(Missing value :0) Detection Frequency (sample) :41/62(Missing value :0) Detection limit :1 Quantification limit :3

	stats
Geometric mean	tr(1)
Median	tr(1)
Maximum	78
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(1)
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	12
	3	Tomakomai Port	nd
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	nd
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	tr(1)
Akita Pref.	7	Lake Hachiro	nd
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	tr(1)
Fukushima Pref.	9	Onahama Port	tr(1)
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(1)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	nd
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	4
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	10
	15	Mouth of Riv. Sumida(Minato Ward)	27
Yokohama City	16	Yokohama Port	tr(1)
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	23
	18	Keihin Canal, Port of Kawasaki	tr(1)
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	tr(1)
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(2)
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	5
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	tr(1)
Nagano Pref.	24	Lake Suwa(center)	tr(1)
Shizuoka Pref.	25	Shimizu Port	tr(2)
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	tr(1)
) () D ()	28	Nagoya Port	nd
Mie Pref.	29	Yokkaichi Port	tr(1)
ati n c	30	Toba Port	nd
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	tr(2)
W . D C	32	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	tr(1)
Osaka Pref.	35 36	Mouth of Riv. Yamato(Sakai City)	78
Osaka City	37	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	12
	38	Mouth of Riv. Yodo(Osaka City) Osaka Port	3
	39	Outside Osaka Port	tr(1)
Hyogo Pref.	40	Offshore of Himeji	tr(2)
Kobe City	41	Kobe Port(center)	tr(1)
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	11
Nata Fiet.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	11
Wakayama Pref.	43	City)	tr(1)
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	tr(1)
Tinosinna Tiet.	46	Hiroshima Bay	tr(1)
Yamaguchi Pref.	47	Tokuyama Bay	nd
rumagaem rrei.	48	Offshore of Ube	nd
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	tr(1)
Kagawa Pref.	51	Takamatsu Port	33
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	tr(1)
Kitakyushu City	54	Dokai Bay	tr(1)
Fukuoka City	55	Hakata Bay	tr(1)
Saga Pref.	56	Imari Bay	nd
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	tr(1)
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
<i>G</i>	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	3
Okinawa Pref.	62	Naha Port	12
		v (site) is based on the number of sites, thus means (the number of detected sites/the number of	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[7-4]cis-Nonachlor/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :61/62(Missing value :0) Detection Frequency (sample) :61/62(Missing value :0) Detection limit :0.7 Quantification limit :1.7

	stats
Geometric mean	31
Median	25
Maximum	1,500
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(1.3)
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	17
	3	Tomakomai Port	5.2
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	tr(1.6)
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	15
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	21
Akita Pref.	7	Lake Hachiro	21
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	6.9
Fukushima Pref.	9	Onahama Port	100
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	13
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	7.3
Chiba Pref.	12	Coast of Ichihara and Anegasaki	75
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	73
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	530
	15	Mouth of Riv. Sumida(Minato Ward)	1,200
Yokohama City	16	Yokohama Port	130
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	390
	18	Keihin Canal, Port of Kawasaki	170
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	13
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	17
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	72
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	14
Nagano Pref.	24	Lake Suwa(center)	110
Shizuoka Pref.	25	Shimizu Port	38
	26	Riv. Tenryu(Iwata City)	3.3
Aichi Pref.	27	Kinuura Port	32
	28	Nagoya Port	57
Mie Pref.	29	Yokkaichi Port	51
	30	Toba Port	23
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	260
	32	Lake Biwa(center, offshore of Karasaki)	63
Kyoto Pref.	33	Miyazu Port	2.5
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	9.2
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	730
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	630
_	37	Mouth of Riv. Yodo(Osaka City)	310
	38	Osaka Port	540
	39	Outside Osaka Port	67
Hyogo Pref.	40	Offshore of Himeji	47
Kobe City	41	Kobe Port(center)	67
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	60
W 1 D C	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	12
Wakayama Pref.	43	City)	13
Okayama Pref.	44	Offshore of Mizushima	4.3
Hiroshima Pref.	45	Kure Port	72
	46	Hiroshima Bay	66
Yamaguchi Pref.	47	Tokuyama Bay	16
C	48	Offshore of Ube	15
	49	Offshore of Hagi	2.0
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	6.2
Kagawa Pref.	51	Takamatsu Port	1,500
Ehime Pref.	52	Niihama Port	tr(1.2)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	14
Kitakyushu City	54	Dokai Bay	81
Fukuoka City	55	Hakata Bay	34
Saga Pref.	56	Imari Bay	18
Nagasaki Pref.	57	Omura Bay	26
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	4.3
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	11
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	5.2
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	23
Okinawa Pref.	62	Naha Port	1,400
(Note 1) Detection t		(cita) is based on the number of citas, thus means (the number of detected citas/the number	C 1 1 1 1

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[7-5]trans-Nonachlor/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :61/62(Missing value :0) Detection Frequency (sample) :61/62(Missing value :0) Detection limit :2 Quantification limit :6

	stats
Geometric mean	47
Median	39
Maximum	2,600
Minimum	nd

ocal communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(3)
-	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	50
	3	Tomakomai Port	8
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	tr(5)
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	14
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	57
Akita Pref.	7	Lake Hachiro	24
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	16
Fukushima Pref.	9	Onahama Port	120
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	17
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	20
Chiba Pref.	12	Coast of Ichihara and Anegasaki	48
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	130
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	850
***	15	Mouth of Riv. Sumida(Minato Ward)	2,100
Yokohama City	16	Yokohama Port	140
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	870
	18	Keihin Canal, Port of Kawasaki	150
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	28
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	35
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	170
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(2)
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	31
Nagano Pref.	24	Lake Suwa(center)	140
Shizuoka Pref.	25	Shimizu Port	64
	26	Riv. Tenryu(Iwata City)	8
Aichi Pref.	27	Kinuura Port	23
	28	Nagoya Port	40
Mie Pref.	29	Yokkaichi Port	47
	30	Toba Port	25
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	230
	32	Lake Biwa(center, offshore of Karasaki)	48
Kyoto Pref.	33	Miyazu Port	tr(3)
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	23
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	2,000
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,400
	37	Mouth of Riv. Yodo(Osaka City)	550
	38	Osaka Port	620
	39	Outside Osaka Port	72
Hyogo Pref.	40	Offshore of Himeji	77
Kobe City	41	Kobe Port(center)	70
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	160
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	31
•		City)	J.
Okayama Pref.	44	Offshore of Mizushima	6
Hiroshima Pref.	45	Kure Port	66
	46	Hiroshima Bay	75
Yamaguchi Pref.	47	Tokuyama Bay	11
	48	Offshore of Ube	15
	49	Offshore of Hagi	tr(2)
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	12
Kagawa Pref.	51	Takamatsu Port	2,600
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	26
Kitakyushu City	54	Dokai Bay	110
Fukuoka City	55	Hakata Bay	38
Saga Pref.	56	Imari Bay	21
Nagasaki Pref.	57	Omura Bay	23
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	8
Olla Fiel.		Mouth of Riv. Oyodo(Miyazaki City)	23
Miyazaki Pref.	59		23
Miyazaki Pref.	60	Riv. Amori(Kirishima City)	11

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[8]Heptachlors/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :43/62(Missing value :0) Detection Frequency (sample) :43/62(Missing value :0) Detection limit :*1.6 Quantification limit :*4.1

	stats
Geometric mean	tr(2.7)
Median	tr(2.9)
Maximum	160
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	6.1
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	160
	3	Tomakomai Port	tr(2.9)
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	tr(1.7)
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	4.2
Akita Pref.	7	Lake Hachiro	tr(1.9)
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	tr(1.6)
Fukushima Pref.	9	Onahama Port	6.3
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	tr(2.3)
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	tr(2.3)
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	6.0
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	34
	15	Mouth of Riv. Sumida(Minato Ward)	84
Yokohama City	16	Yokohama Port	5.6
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	20
	18	Keihin Canal, Port of Kawasaki	5.4
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	4.7
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	6.2
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	6.8
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	8.4
Shizuoka Pref.	25	Shimizu Port	tr(2.8)
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	tr(3.6)
	28	Nagoya Port	4.2
Mie Pref.	29	Yokkaichi Port	tr(3.2)
	30	Toba Port	nd
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	9.4
	32	Lake Biwa(center, offshore of Karasaki)	tr(1.7)
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	85
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	31
	37	Mouth of Riv. Yodo(Osaka City)	19
	38	Osaka Port	13
	39	Outside Osaka Port	tr(3.8)
Hyogo Pref.	40	Offshore of Himeji	tr(3.0)
Kobe City	41	Kobe Port(center)	nd
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	5.2
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	tr(2.1)
wakayama i ici.	73	City)	11(2.1)
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	4.6
	46	Hiroshima Bay	4.5
Yamaguchi Pref.	47	Tokuyama Bay	nd
	48	Offshore of Ube	tr(1.6)
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	tr(2.0)
Kagawa Pref.	51	Takamatsu Port	54
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	6.5
Fukuoka City	55	Hakata Bay	tr(2.5)
Saga Pref.	56	Imari Bay	tr(1.7)
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	62
(Note 1) Detection ((cita) is based on the number of sites, thus means (the number of detected sites/the number of	c 1 1 1

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

 $(Note\ 3)\ tr: detection\ limit\ value\ and\ more,\ less\ than\ Quantification\ limit\ value.$

(Note 4) nd: Not detected

(Note 5) * : indicates the sum value of the Quantification [Detection] limits of each congener.

[8-1]Heptachlor/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :53/62(Missing value :0) Detection Frequency (sample) :53/62(Missing value :0) Detection limit :0.3 Quantification limit :0.9

	stats
Geometric mean	1.2
Median	1.1
Maximum	40
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(0.8)
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	15
	3	Tomakomai Port	tr(0.4)
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	tr(0.7)
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	3.4
Akita Pref.	7	Lake Hachiro	tr(0.7)
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	3.6
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	1.0
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(0.6)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	1.2
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	3.3
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	9.7
	15	Mouth of Riv. Sumida(Minato Ward)	18
Yokohama City	16	Yokohama Port	2.6
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	6.5
	18	Keihin Canal, Port of Kawasaki	3.3
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	1.2
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	0.9
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	3.4
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(0.3)
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	tr(0.3)
Nagano Pref.	24	Lake Suwa(center)	3.0
Shizuoka Pref.	25	Shimizu Port	1.1
4:1:D C	26	Riv. Tenryu(Iwata City)	tr(0.6)
Aichi Pref.	27	Kinuura Port	1.9
M: D C	28	Nagoya Port	1.8
Mie Pref.	29	Yokkaichi Port	1.5
China Duaf	30	Toba Port	tr(0.5) 3.8
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira) Lake Biwa(center, offshore of Karasaki)	
Vt- Df		Mivazu Port	tr(0.6)
Kyoto Pref. Kyoto City	33	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	tr(0.4) tr(0.4)
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	18
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	8.3
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	3.8
	38	Osaka Port	7.5
	39	Outside Osaka Port	2.0
Hyogo Pref.	40	Offshore of Himeji	1.2
Kobe City	41	Kobe Port(center)	nd
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	1.2
Ivara i ici.	72	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	1.2
Wakayama Pref.	43	City)	tr(0.7)
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	3.2
	46	Hiroshima Bay	2.1
Yamaguchi Pref.	47	Tokuyama Bay	nd
guern 1101.	48	Offshore of Ube	0.9
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	tr(0.5)
Kagawa Pref.	51	Takamatsu Port	13
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	3.5
Fukuoka City	55	Hakata Bay	1.6
Saga Pref.	56	Imari Bay	1.0
Nagasaki Pref.	57	Omura Bay	1.0
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	tr(0.5)
Miyazaki Pref.	59	Mouth of Riv. Ora(Offa City) Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(0.3)
ragosinna i ici.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(0.3)
Okinawa Pref.	62	Naha Port	40
OKIIMWA I ICI.	02	I TORING A COLO	70

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr : detection limit value and more, less than Quantification limit value.

⁽Note 4) nd: Not detected

The Environmental Monitoring 2017

Quantification limit:1.2

[8-2]cis-Heptachlor epoxide/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :51/62(Missing value :0) Detection Frequency (sample) :51/62(Missing value :0) Detection limit :0.5

	stats
Geometric mean	1.9
Median	1.6
Maximum	150
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	5.3
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	150
	3	Tomakomai Port	2.5
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	tr(1.0)
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	tr(0.8)
Akita Pref.	7	Lake Hachiro	1.2
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	1.6
Fukushima Pref.	9	Onahama Port	2.7
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	1.3
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(0.5)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	tr(1.1)
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	2.7
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	24
,	15	Mouth of Riv. Sumida(Minato Ward)	66
Yokohama City	16	Yokohama Port	3.0
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	13
Tawasan eng	18	Keihin Canal, Port of Kawasaki	2.1
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	3.5
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	5.3
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	3.4
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	tr(0.7)
Nagano Pref.	24	Lake Suwa(center)	5.4
Shizuoka Pref.	25	Shimizu Port	1.7
Silizuoka Fiel.	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	1.7
Alcili Fiel.	28	Nagoya Port	2.4
Mie Pref.	29	Yokkaichi Port	1.7
Mile Fiel.			
Shiga Pref.	30	Toba Port Lake Biwa(center, offshore of Minamihira)	tr(0.7) 5.6
Siliga Fiel.	32	,	
IZ (D C		Lake Biwa(center, offshore of Karasaki)	tr(1.1)
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	tr(1.0)
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	67
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	23
	37	Mouth of Riv. Yodo(Osaka City)	15
	38	Osaka Port	5.9
** ** **	39	Outside Osaka Port	1.8
Hyogo Pref.	40	Offshore of Himeji	1.8
Kobe City	41	Kobe Port(center)	tr(1.0)
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	4.0
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	1.4
•		City)	
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	1.4
	46	Hiroshima Bay	2.4
Yamaguchi Pref.	47	Tokuyama Bay	nd
	48	Offshore of Ube	tr(0.7)
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	1.5
Kagawa Pref.	51	Takamatsu Port	41
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	1.5
Kitakyushu City	54	Dokai Bay	3.0
Fukuoka City	55	Hakata Bay	tr(0.9)
Saga Pref.	56	Imari Bay	tr(0.7)
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
	59	Mouth of Riv. Oyodo(Miyazaki City)	tr(0.7)
Miyazaki Pref.	39		
	60	Riv. Amori(Kirishima City)	nd
Miyazaki Pref. Kagoshima Pref.			nd tr(0.7)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[8-3]trans-Heptachlor epoxide/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :0/62(Missing value :0) Detection Frequency (sample) :0/62(Missing value :0) Detection limit :0.8 Quantification limit :2.0

	stats
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
	3	Tomakomai Port	nd
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	nd
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	nd
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	nd
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	nd
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	nd
	15	Mouth of Riv. Sumida(Minato Ward)	nd
Yokohama City	16	Yokohama Port	nd
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	nd
	18	Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	nd
Shizuoka Pref.	25	Shimizu Port	nd
4: 1: D. C	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	nd
Mie Pref.	28 29	Nagoya Port Yokkaichi Port	nd d
Mie Prei.			nd 1
Shiga Pref.	30	Toba Port Lake Biwa(center, offshore of Minamihira)	nd nd
Siliga Fiel.	32	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	nd
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	nd
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	nd
	38	Osaka Port	nd
	39	Outside Osaka Port	nd
Hyogo Pref.	40	Offshore of Himeji	nd
Kobe City	41	Kobe Port(center)	nd
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	nd
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	nd
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	nd
	46	Hiroshima Bay	nd
Yamaguchi Pref.	47	Tokuyama Bay	nd
	48	Offshore of Ube	nd
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	nd
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	nd
Fukuoka City	55	Hakata Bay	nd
Saga Pref.	56	Imari Bay	nd
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
		D: A (W: 1: C:)	1
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
Kagoshima Pref. Okinawa Pref.	60	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[11] HCHs (Hexachlorohexanes)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :*1.4 Quantification limit :*3.6

	stats
Geometric mean	270
Median	250
Maximum	7,900
Minimum	10

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	45
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1,400
	3	Tomakomai Port	120
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	120
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	220
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	13
Akita Pref.	7	Lake Hachiro	930
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	140
Fukushima Pref.	9	Onahama Port	1,400
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	63
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	10
Chiba Pref.	12	Coast of Ichihara and Anegasaki	140
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	58
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	900
	15	Mouth of Riv. Sumida(Minato Ward)	2,200
Yokohama City	16	Yokohama Port	480
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	270
	18	Keihin Canal, Port of Kawasaki	750
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	120
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	150
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	200
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	14
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	10
Nagano Pref.	24	Lake Suwa(center)	780
Shizuoka Pref.	25	Shimizu Port	240
	26	Riv. Tenryu(Iwata City)	36
Aichi Pref.	27	Kinuura Port	830
	28	Nagoya Port	400
Mie Pref.	29	Yokkaichi Port	450
	30	Toba Port	150
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	2,600
	32	Lake Biwa(center, offshore of Karasaki)	510
Kyoto Pref.	33	Miyazu Port	240
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	66
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	1,700
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	2,900
_	37	Mouth of Riv. Yodo(Osaka City)	4,000
	38	Osaka Port	4,000
	39	Outside Osaka Port	1,900
Hyogo Pref.	40	Offshore of Himeji	770
Kobe City	41	Kobe Port(center)	1,100
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	50
W. 1 D. C	40	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	210
Wakayama Pref.	43	City)	210
Okayama Pref.	44	Offshore of Mizushima	91
Hiroshima Pref.	45	Kure Port	1,200
	46	Hiroshima Bay	680
Yamaguchi Pref.	47	Tokuyama Bay	230
	48	Offshore of Ube	650
	49	Offshore of Hagi	110
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	88
Kagawa Pref.	51	Takamatsu Port	1,700
Ehime Pref.	52	Niihama Port	15
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	160
Kitakyushu City	54	Dokai Bay	7,900
Fukuoka City	55	Hakata Bay	590
Saga Pref.	56	Imari Bay	1,200
Nagasaki Pref.	57	Omura Bay	760
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	42
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	350
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	15
5	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	130
Okinawa Pref.	62	Naha Port	250
(Note 1) Detection f		(cita) is based on the number of sites, thus means (the number of detected sites/the number	6 1 1 1

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) * : indicates the sum value of the Quantification [Detection] limits of each congener.

[11-1] α -HCH• sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.2 Quantification limit :0.5

	stats
Geometric mean	77
Median	86
Maximum	1,900
Minimum	1.0

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	10
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	440
	3	Tomakomai Port	44
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	55
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	77
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	3.8
Akita Pref.	7	Lake Hachiro	150
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	32
Fukushima Pref.	9	Onahama Port	650
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	18
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	3.0
Chiba Pref.	12	Coast of Ichihara and Anegasaki	53
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	16
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	340
	15	Mouth of Riv. Sumida(Minato Ward)	760
Yokohama City	16	Yokohama Port	200
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	92
	18	Keihin Canal, Port of Kawasaki	280
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	27
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	33
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	66
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	3.4
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	1.7
Nagano Pref.	24	Lake Suwa(center)	220
Shizuoka Pref.	25	Shimizu Port	67
	26	Riv. Tenryu(Iwata City)	12
Aichi Pref.	27	Kinuura Port	290
	28	Nagoya Port	160
Mie Pref.	29	Yokkaichi Port	180
	30	Toba Port	45
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	340
8	32	Lake Biwa(center, offshore of Karasaki)	95
Kyoto Pref.	33	Miyazu Port	93
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	12
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	620
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	230
	37	Mouth of Riv. Yodo(Osaka City)	350
	38	Osaka Port	1,500
	39	Outside Osaka Port	890
Hyogo Pref.	40	Offshore of Himeji	190
Kobe City	41	Kobe Port(center)	470
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	13
raia i ici.		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	13
Wakayama Pref.	43	City)	63
Okayama Pref.	44	Offshore of Mizushima	30
Hiroshima Pref.	45	Kure Port	490
	46	Hiroshima Bay	270
Yamaguchi Pref.	47	Tokuyama Bay	93
- amagaciii i ici.	48	Offshore of Ube	210
	49	Offshore of Hagi	38
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	26
Kagawa Pref.	51	Takamatsu Port	510
Ehime Pref.	52	Niihama Port	1.0
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	46
Kitakyushu City	54	Dokai Bay	1,900
Fukuoka City	55	Hakata Bay	240
Saga Pref.	56	Imari Bay	380
ŭ	57		260
Nagasaki Pref. Oita Pref.	58	Omura Bay Mouth of Riv. Oita(Oita City)	260
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	77
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	2.2
01: 7: 0	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	26
Okinawa Pref.	62	Naha Port	79

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[11-2] β -HCH• sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample):62/62(Missing value:0) Detection limit :0.6 Quantification limit:1.5

	stats
Geometric mean	140
Median	110
Maximum	3,400
Minimum	5.7

ocal communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	28
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	710
	3	Tomakomai Port	58
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	29
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	100
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	5.7
Akita Pref.	7	Lake Hachiro	620
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	77
Fukushima Pref.	9	Onahama Port	420
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	33
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	5.9
Chiba Pref.	12	Coast of Ichihara and Anegasaki	53
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	29
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	340
W 1 1 G'r	15	Mouth of Riv. Sumida(Minato Ward)	990
Yokohama City	16	Yokohama Port	170
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	100
N D. C	18	Keihin Canal, Port of Kawasaki	300
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	69
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	98
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	100
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	7.5
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	7.1
Nagano Pref.	24	Lake Suwa(center)	430
Shizuoka Pref.	25	Shimizu Port	130
	26	Riv. Tenryu(Iwata City)	16
Aichi Pref.	27	Kinuura Port	330
Mr. D. C	28	Nagoya Port	150
Mie Pref.	29	Yokkaichi Port	170
CI. D. C	30	Toba Port	62
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	2,100
V · D C	32	Lake Biwa(center, offshore of Karasaki)	380
Kyoto Pref.	33	Miyazu Port	110 42
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	.=
Osaka Pref. Osaka City	35	Mouth of Riv. Yamato(Sakai City) Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	850 2,500
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	3,400
	38	Osaka Port	1,800
	39	Outside Osaka Port	620
Hyogo Pref.	40	Offshore of Himeii	430
Kobe City	41	Kobe Port(center)	450
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	28
Ivala I ICI.	72	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	20
Wakayama Pref.	43	City)	110
Okayama Pref.	44	Offshore of Mizushima	47
Hiroshima Pref.	45	Kure Port	510
11.100	46	Hiroshima Bay	310
Yamaguchi Pref.	47	Tokuyama Bay	100
annagueni i iei.	48	Offshore of Ube	340
	49	Offshore of Hagi	59
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	46
Kagawa Pref.	51	Takamatsu Port	950
Ehime Pref.	52	Niihama Port	13
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	80
Kitakyushu City	54	Dokai Bay	2,400
Fukuoka City	55	Hakata Bay	240
Saga Pref.	56	Imari Bay	570
Nagasaki Pref.	57	Omura Bay	390
0	58	Mouth of Riv. Oita(Oita City)	18
Ona Prei		Mouth of Riv. Oyodo(Miyazaki City)	210
Oita Pref. Miyazaki Pref.	59		
Miyazaki Pref.	59 60		
	60 61	Riv. Amori(Kirishima City) Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	9.9 77

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

Quantification limit:1.0

[11-3] γ -HCH(synonym:Lindane)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.4
 stats

 Geometric mean
 23

 Median
 25

 Maximum
 1,900

 Minimum
 tr(0.4)

ocal communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	3.1
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	74
	3	Tomakomai Port	13
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	17
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	23
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	2.5
Akita Pref.	7	Lake Hachiro	26
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	11
Fukushima Pref.	9	Onahama Port	130
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	3.0
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(0.9)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	22
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	6.9
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	88
	15	Mouth of Riv. Sumida(Minato Ward)	280
Yokohama City	16	Yokohama Port	67
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	45
ĺ	18	Keihin Canal, Port of Kawasaki	90
Niigata Pref.		Lower Riv. Shinano(Niigata City)	8.5
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	9.4
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	15
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	2.0
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	1.1
Nagano Pref.	24	Lake Suwa(center)	44
Shizuoka Pref.	25	Shimizu Port	20
	26	Riv. Tenryu(Iwata City)	5.0
Aichi Pref.	27	Kinuura Port	78
Attenia i ter.		Nagoya Port	42
Mie Pref.	29	Yokkaichi Port	45
when then	30	Toba Port	33
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	78
Siliga I ICI.	32	Lake Biwa(center, offshore of Karasaki)	12
Kyoto Pref.	33	Miyazu Port	22
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	4.3
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	120
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	53
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	90
+	38	Osaka Port	370
-		Outside Osaka Port	180
Hyogo Pref.	40	Offshore of Himeji	54
Kobe City	41	Kobe Port(center)	86
Nara Pref.	42	,	3.7
Nara Prei.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	3.7
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	18
Ol Df	44	City) Offshore of Mizushima	6.4
Okayama Pref.			6.4
Hiroshima Pref.	45	Kure Port	140
V 1:D 0	46	Hiroshima Bay	50
Yamaguchi Pref.	47	Tokuyama Bay	18
		Offshore of Ube	37
	49	Offshore of Hagi	8.3
E 1 1 1 D C		Mouth of Riv. Yoshino(Tokushima City)	
	50	T 1	9.6
Kagawa Pref.	51	Takamatsu Port	77
Kagawa Pref. Ehime Pref.	51 52	Niihama Port	77 tr(0.4)
Kagawa Pref. Ehime Pref. Kochi Pref.	51 52 53	Niihama Port Mouth of Riv. Shimanto(Shimanto City)	77 tr(0.4)
Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City	51 52 53 54	Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay	77 tr(0.4) 15 1,900
Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City	51 52 53 54 55	Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay	77 tr(0.4) 15 1,900 43
Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref.	51 52 53 54 55 56	Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay	77 tr(0.4) 15 1,900 43 88
Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref.	51 52 53 54 55 56 57	Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay	77 tr(0.4) 15 1,900 43 88 53
Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref.	51 52 53 54 55 56 57 58	Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay Mouth of Riv. Oita(Oita City)	77 tr(0.4) 15 1,900 43 88 53 4.3
Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref. Miyazaki Pref.	51 52 53 54 55 56 57 58 59	Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay Mouth of Riv. Oita(Oita City) Mouth of Riv. Oyodo(Miyazaki City)	77 tr(0.4) 15 1,900 43 88 53 4.3
Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref.	51 52 53 54 55 56 57 58	Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay Mouth of Riv. Oita(Oita City)	77 tr(0.4) 15 1,900 43 88 53 4.3

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

[11-4] δ-HCH• sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.2 Quantification limit :0.6

	stats
Geometric mean	25
Median	22
Maximum	1,700
Minimum	tr(0.2)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	3.9
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	140
	3	Tomakomai Port	9.6
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	16
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	22
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	1.4
Akita Pref.	7	Lake Hachiro	130
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	18
Fukushima Pref.	9	Onahama Port	180
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	9.3
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	0.6
Chiba Pref.	12	Coast of Ichihara and Anegasaki	15
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	5.6
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	130
	15	Mouth of Riv. Sumida(Minato Ward)	180
Yokohama City	16	Yokohama Port	48
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	31
	18	Keihin Canal, Port of Kawasaki	83
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	17
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	13
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	22
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	1.4
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	0.6
Nagano Pref.	24	Lake Suwa(center)	85
Shizuoka Pref.	25	Shimizu Port	19
	26	Riv. Tenryu(Iwata City)	3.0
Aichi Pref.	27	Kinuura Port	130
	28	Nagoya Port	51
Mie Pref.	29	Yokkaichi Port	57
	30	Toba Port	11
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	130
	32	Lake Biwa(center, offshore of Karasaki)	27
Kyoto Pref.	33	Miyazu Port	13
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	7.4
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	150
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	83
	37	Mouth of Riv. Yodo(Osaka City)	130
	38	Osaka Port	350
	39	Outside Osaka Port	200
Hyogo Pref.	40	Offshore of Himeji	95
Kobe City	41	Kobe Port(center)	100
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	5.4
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	21
Okayama Pref.	44	Offshore of Mizushima	7.5
Hiroshima Pref.	45	Kure Port	100
	46	Hiroshima Bay	55
Yamaguchi Pref.	47	Tokuyama Bay	21
8	48	Offshore of Ube	63
	49	Offshore of Hagi	8.5
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	6.9
Kagawa Pref.	51	Takamatsu Port	200
Ehime Pref.	52	Niihama Port	tr(0.2)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	17
Kitakyushu City	54	Dokai Bay	1,700
Fukuoka City	55	Hakata Bay	65
Saga Pref.	56	Imari Bay	160
Nagasaki Pref.	57	Omura Bay	55
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	5.3
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	31
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	1.1
3	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	15
Okinawa Pref.	62	Naha Port	13
(Note 1) Detection f		(cita) is based on the number of sites, thus means (the number of detected sites/the number of s	1

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14] Polybromodiphenyl ethers(Br4~Br10)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :61/62(Missing value :0) Detection Frequency (sample) :61/62(Missing value :0) Detection limit :*33 Quantification limit :*89

	stats
Geometric mean	5,000
Median	6,200
Maximum	610,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	400
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	2,000
	3	Tomakomai Port	5,700
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	tr(78)
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	6,700
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	tr(67)
Akita Pref.	7	Lake Hachiro	1,600
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	590
Fukushima Pref.	9	Onahama Port	24,000
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	26,000
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	140
Chiba Pref.	12	Coast of Ichihara and Anegasaki	8,600
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	4,300
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	190,000
	15	Mouth of Riv. Sumida(Minato Ward)	160,000
Yokohama City	16	Yokohama Port	19,000
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	24,000
	18	Keihin Canal, Port of Kawasaki	60,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	3,100
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	2,100
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	77,000
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(72)
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	600
Nagano Pref.	24	Lake Suwa(center)	11,000
Shizuoka Pref.	25	Shimizu Port	2,900
	26	Riv. Tenryu(Iwata City)	150
Aichi Pref.	27	Kinuura Port	17,000
	28	Nagoya Port	170,000
Mie Pref.	29	Yokkaichi Port	49,000
	30	Toba Port	4,500
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	15,000
	32	Lake Biwa(center, offshore of Karasaki)	5,500
Kyoto Pref.	33	Miyazu Port	770
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	950
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	41,000
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	59,000
	37	Mouth of Riv. Yodo(Osaka City)	44,000
	38	Osaka Port	610,000
	39	Outside Osaka Port	40,000
Hyogo Pref.	40	Offshore of Himeji	7,800
Kobe City	41	Kobe Port(center)	28,000
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	13,000
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	26,000
•		City)	·
Okayama Pref.	44	Offshore of Mizushima	1,300
Hiroshima Pref.	45	Kure Port	23,000
	46	Hiroshima Bay	57,000
Yamaguchi Pref.	47	Tokuyama Bay	550,000
	48	Offshore of Ube	5,900
	49	Offshore of Hagi	420
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	550
Kagawa Pref.	51	Takamatsu Port	360,000
Ehime Pref.	52	Niihama Port	96
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	580
Kitakyushu City	54	Dokai Bay	120,000
Fukuoka City	55	Hakata Bay	6,500
Saga Pref.	56	Imari Bay	3,900
Nagasaki Pref.	57	Omura Bay	1,600
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	150
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	130
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	91
Okinawa Pref.	62	Naha Port	41,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

 $(Note\ 3)\ tr: detection\ limit\ value\ and\ more,\ less\ than\ Quantification\ limit\ value.$

(Note 4) nd: Not detected

(Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

The Environmental Monitoring 2017

[14-1] Tetrabromodiphenyl ethers/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :44/62(Missing value :0) Detection Frequency (sample) :44/62(Missing value :0) Detection limit :4 Quantification limit :9

	stats
Geometric mean	13
Median	10
Maximum	570
Minimum	nd

ocal communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	12
	3	Tomakomai Port	310
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	16
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	12
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	tr(5)
Fukushima Pref.	9	Onahama Port	380
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	tr(7)
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(6)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	21
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	23
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	180
	15	Mouth of Riv. Sumida(Minato Ward)	260
Yokohama City	16	Yokohama Port	54
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	99
	18	Keihin Canal, Port of Kawasaki	570
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	tr(5)
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	9
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	tr(5)
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	32
Shizuoka Pref.	25	Shimizu Port	tr(8)
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	tr(7)
	28	Nagoya Port	20
Mie Pref.	29	Yokkaichi Port	11
	30	Toba Port	nd
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	97
	32	Lake Biwa(center, offshore of Karasaki)	54
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	230
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	360
	37	Mouth of Riv. Yodo(Osaka City)	220
	38	Osaka Port	170
	39	Outside Osaka Port	37
Hyogo Pref.	40	Offshore of Himeji	13
Kobe City	41	Kobe Port(center)	35
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	tr(8)
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	nd
wakayama 1 ici.	73	City)	nu
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	15
	46	Hiroshima Bay	tr(6)
Yamaguchi Pref.	47	Tokuyama Bay	20
	48	Offshore of Ube	tr(4)
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	88
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	110
Fukuoka City	55	Hakata Bay	12
Saga Pref.	56	Imari Bay	13
Nagasaki Pref.	57	Omura Bay	tr(5)
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(4)
<i>-</i>	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[14-1-1] 2,2',4,4'-Tetrabromodiphenyl ether (#47)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :44/62(Missing value :0) Detection Frequency (sample) :44/62(Missing value :0) Detection limit :4 Quantification limit :9

	stats
Geometric mean	11
Median	tr(8.5)
Maximum	330
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	12
	3	Tomakomai Port	180
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	12
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	tr(8)
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	tr(6)
Fukushima Pref.	9	Onahama Port	250
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	tr(7)
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(6)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	15
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	17
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	98
	15	Mouth of Riv. Sumida(Minato Ward)	140
Yokohama City	16	Yokohama Port	36
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	60
	18	Keihin Canal, Port of Kawasaki	330
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	tr(5)
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	9
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	tr(5)
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	21
Shizuoka Pref.	25	Shimizu Port	tr(8)
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	tr(7)
	28	Nagoya Port	15
Mie Pref.	29	Yokkaichi Port	11
	30	Toba Port	nd
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	44
	32	Lake Biwa(center, offshore of Karasaki)	34
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	140
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	250
	37	Mouth of Riv. Yodo(Osaka City)	120
	38	Osaka Port	110
	39	Outside Osaka Port	24
Hyogo Pref.	40	Offshore of Himeji	9
Kobe City	41	Kobe Port(center)	20
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	tr(7)
W. 1 D. C	40	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	,
Wakayama Pref.	43	City)	nd
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	15
	46	Hiroshima Bay	tr(6)
Yamaguchi Pref.	47	Tokuyama Bay	20
-	48	Offshore of Ube	tr(4)
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	67
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	60
Fukuoka City	55	Hakata Bay	12
Saga Pref.	56	Imari Bay	9
Nagasaki Pref.	57	Omura Bay	tr(5)
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(4)
5	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	22
(Note 1) Detection f		(cita) is bessed on the number of sites, thus means (the number of detected sites/the number of	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

The Environmental Monitoring 2017

Quantification limit :9

[14-2] Pentabromodiphenyl ethers/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :37/62(Missing value :0) Detection Frequency (sample) :37/62(Missing value :0) Detection limit :4

	stats
Geometric mean	10
Median	tr(5.5)
Maximum	560
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(7)
	3	Tomakomai Port	170
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	tr(6)
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	tr(6)
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	550
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	tr(4)
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(4)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	23
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	29
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	170
	15	Mouth of Riv. Sumida(Minato Ward)	210
Yokohama City	16	Yokohama Port	62
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	96
	18	Keihin Canal, Port of Kawasaki	560
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	tr(4)
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	20
Shizuoka Pref.	25	Shimizu Port	tr(5)
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	tr(6)
	28	Nagoya Port	16
Mie Pref.	29	Yokkaichi Port	14
	30	Toba Port	nd
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	72
8	32	Lake Biwa(center, offshore of Karasaki)	41
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	230
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	260
	37	Mouth of Riv. Yodo(Osaka City)	310
	38	Osaka Port	140
	39	Outside Osaka Port	23
Hyogo Pref.	40	Offshore of Himeji	tr(8)
Kobe City	41	Kobe Port(center)	25
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	9
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	nd
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	14
- III community	46	Hiroshima Bay	nd
Yamaguchi Pref.	47	Tokuyama Bay	18
- amagacin i ici.	48	Offshore of Ube	tr(5)
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	160
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	74
Fukuoka City	55	Hakata Bay	tr(5)
Saga Pref.	56	Imari Bay	nd
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
ragosinina i ici.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	43
(Note 1) Detection f	02	Invalia Fort	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-2-1] 2,2',4,4',5-Pentabromodiphenyl ether (#99)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :43/62(Missing value :0) Detection Frequency (sample) :43/62(Missing value :0) Detection limit :2 Quantification limit :6

	stats
Geometric mean	7
Median	tr(4.5)
Maximum	380
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	7
	3	Tomakomai Port	98
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	7
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	tr(4)
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	tr(3)
Fukushima Pref.	9	Onahama Port	380
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	tr(4)
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	tr(4)
Chiba Pref.	12	Coast of Ichihara and Anegasaki	13
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	16
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	93
	15	Mouth of Riv. Sumida(Minato Ward)	120
Yokohama City	16	Yokohama Port	42
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	65
	18	Keihin Canal, Port of Kawasaki	310
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	tr(2)
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(4)
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	tr(4)
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	17
Shizuoka Pref.	25	Shimizu Port	tr(4)
4:1:D C	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	6
M: D C	28	Nagoya Port	9
Mie Pref.	29	Yokkaichi Port	
China Duaf	30	Toba Port	tr(2)
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira) Lake Biwa(center, offshore of Karasaki)	34
Vt- Df	32	Mivazu Port	25
Kyoto Pref. Kyoto City	33	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	120
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	140
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	180
	38	Osaka Port	100
	39	Outside Osaka Port	13
Hyogo Pref.	40	Offshore of Himeji	6
Kobe City	41	Kobe Port(center)	14
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	6
Ivara i ici.	72	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	- U
Wakayama Pref.	43	City)	nd
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	12
	46	Hiroshima Bay	tr(3)
Yamaguchi Pref.	47	Tokuyama Bay	9
guern 1101.	48	Offshore of Ube	nd
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	tr(2)
Kagawa Pref.	51	Takamatsu Port	72
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	39
Fukuoka City	55	Hakata Bay	tr(5)
Saga Pref.	56	Imari Bay	tr(3)
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	30
(Note 1) Detection ((site) is besed on the number of sites, thus money (the number of detected sites/the number of	0 1 1:)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-3] Hexabromodiphenyl ethers/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :44/62(Missing value :0) Detection Frequency (sample) :44/62(Missing value :0) Detection limit :2 Quantification limit :6

	stats
Geometric mean	16
Median	24
Maximum	570
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
	3	Tomakomai Port	45
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	27
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	22
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	290
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	21
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	55
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	30
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	450
	15	Mouth of Riv. Sumida(Minato Ward)	570
Yokohama City	16	Yokohama Port	110
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	86
	18	Keihin Canal, Port of Kawasaki	290
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	tr(3)
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(2)
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	61
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	59
Shizuoka Pref.	25	Shimizu Port	14
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	23
	28	Nagoya Port	160
Mie Pref.	29	Yokkaichi Port	200
	30	Toba Port	25
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	120
8	32	Lake Biwa(center, offshore of Karasaki)	39
Kyoto Pref.	33	Miyazu Port	tr(4)
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	320
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	160
, and the second	37	Mouth of Riv. Yodo(Osaka City)	280
	38	Osaka Port	540
	39	Outside Osaka Port	51
Hyogo Pref.	40	Offshore of Himeji	40
Kobe City	41	Kobe Port(center)	120
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	7
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	tr(3)
Okayama Pref.	44	Offshore of Mizushima	6
Hiroshima Pref.	45	Kure Port	30
	46	Hiroshima Bay	170
Yamaguchi Pref.	47	Tokuyama Bay	390
8	48	Offshore of Ube	43
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	420
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	100
Fukuoka City	55	Hakata Bay	6
Saga Pref.	56	Imari Bay	18
Nagasaki Pref.	57	Omura Bay	tr(5)
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	120
(Note 1) Detection f	. 02	(cita) is based on the number of citas, thus means (the number of detected sites (the number of	120

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-3-1] 2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :42/62(Missing value :0) Detection Frequency (sample) :42/62(Missing value :0) Detection limit :2 Quantification limit :6

	stats
Geometric mean	tr(5)
Median	tr(3)
Maximum	190
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
	3	Tomakomai Port	26
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	tr(3)
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	nd
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	100
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	tr(3)
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	14
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	7
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	57
	15	Mouth of Riv. Sumida(Minato Ward)	72
Yokohama City	16	Yokohama Port	15
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	22
	18	Keihin Canal, Port of Kawasaki	110
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	tr(3)
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(2)
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	6
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	11
Shizuoka Pref.	25	Shimizu Port	tr(2)
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	tr(4)
	28	Nagoya Port	7
Mie Pref.	29	Yokkaichi Port	35
	30	Toba Port	tr(3)
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	21
	32	Lake Biwa(center, offshore of Karasaki)	11
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	190
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	66
	37	Mouth of Riv. Yodo(Osaka City)	140
	38	Osaka Port	140
	39	Outside Osaka Port	9
Hyogo Pref.	40	Offshore of Himeji	11
Kobe City	41	Kobe Port(center)	35
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	tr(5)
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	tr(3)
·		City)	-(0)
Okayama Pref.	44	Offshore of Mizushima	tr(3)
Hiroshima Pref.	45	Kure Port	tr(5)
	46	Hiroshima Bay	tr(3)
Yamaguchi Pref.	47	Tokuyama Bay	14
	48	Offshore of Ube	6
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	tr(2)
Kagawa Pref.	51	Takamatsu Port	150
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	17
Fukuoka City	55	Hakata Bay	tr(3)
Saga Pref.	56	Imari Bay	tr(2)
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	18

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-3-2] 2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :40/62(Missing value :0) Detection Frequency (sample) :40/62(Missing value :0) Detection limit :2 Quantification limit :5

	stats
Geometric mean	tr(4)
Median	tr(4)
Maximum	68
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	tr(2)
	3	Tomakomai Port	11
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	5
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	8
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	68
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	tr(3)
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	tr(4)
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	9
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	48
	15	Mouth of Riv. Sumida(Minato Ward)	51
Yokohama City	16	Yokohama Port	9
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	13
	18	Keihin Canal, Port of Kawasaki	34
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(2)
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	5
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	14
Shizuoka Pref.	25	Shimizu Port	tr(4)
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	tr(2)
	28	Nagoya Port	8
Mie Pref.	29	Yokkaichi Port	10
	30	Toba Port	tr(4)
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	26
8	32	Lake Biwa(center, offshore of Karasaki)	8
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	38
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	34
	37	Mouth of Riv. Yodo(Osaka City)	43
	38	Osaka Port	27
	39	Outside Osaka Port	tr(4)
Hyogo Pref.	40	Offshore of Himeji	tr(4)
Kobe City	41	Kobe Port(center)	6
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	tr(2)
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	(2)
Wakayama Pref.	43	City)	nd
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	tr(4)
	46	Hiroshima Bay	22
Yamaguchi Pref.	47	Tokuyama Bay	32
- amagaciii i ici.	48	Offshore of Ube	9
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	35
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	13
Fukuoka City	55	Hakata Bay	tr(3)
Saga Pref.	56	Imari Bay	tr(4)
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
ragosinina i iei.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	12
(Note 1) Detection f	. 02	I valid I Oit	1.1.

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-4] Heptabromodiphenyl ethers/sediment (pg/g-dry)

Monitored year :2017

Detection Frequency (site) :36/62(Missing value :0)
Detection Frequency (sample) :36/62(Missing value :0)

Detection limit :6 Quantification limit :15

	stats
Geometric mean	18
Median	16
Maximum	580
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
	3	Tomakomai Port	tr(6)
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	tr(7)
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	20
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	140
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	19
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	46
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	37
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	370
	15	Mouth of Riv. Sumida(Minato Ward)	580
Yokohama City	16	Yokohama Port	92
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	58
	18	Keihin Canal, Port of Kawasaki	94
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	35
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	67
Shizuoka Pref.	25	Shimizu Port	nd
4: 1: D. C	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	tr(6)
Mie Pref.	28 29	Nagoya Port Yokkaichi Port	60 340
Mie Prei.			19
Shiga Pref.	30	Toba Port Lake Biwa(center, offshore of Minamihira)	89
Siliga Fiel.	32	Lake Biwa(center, offshore of Karasaki)	36
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	340
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	160
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	130
	38	Osaka Port	480
	39	Outside Osaka Port	51
Hyogo Pref.	40	Offshore of Himeji	75
Kobe City	41	Kobe Port(center)	350
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	tr(13)
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	tr(11)
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	33
	46	Hiroshima Bay	100
Yamaguchi Pref.	47	Tokuyama Bay	140
Č	48	Offshore of Ube	44
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	570
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	130
Fukuoka City	55	Hakata Bay	nd
Saga Pref.	56	Imari Bay	nd
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
1	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	01		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

 $[14\text{-}4\text{-}1]\ 2,2',3,3',4,5',6'\text{-}Pentabromodiphenyl ether } (\#175)/sediment\ (pg/g-dry)\ and$

[14-4-2] 2,2',3,4,4',5',6'-Heptabromodiphenyl ether (#183)/sediment (pg/g-dry)

Monitored year :2017

Detection Frequency (site) :34/62(Missing value :0)
Detection Frequency (sample) :34/62(Missing value :0)

Detection limit :6 Quantification limit :15

	stats
Geometric mean	tr(13)
Median	tr(9)
Maximum	360
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
	3	Tomakomai Port	tr(6)
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	nd
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	tr(9)
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	96
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	tr(8)
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	36
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	20
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	220
	15	Mouth of Riv. Sumida(Minato Ward)	320
Yokohama City	16	Yokohama Port	68
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	27
) D C	18	Keihin Canal, Port of Kawasaki	49
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref. Fukui Pref.	21	Mouth of Riv. Sai(Kanazawa City) Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(12)
Yamanashi Pref.	22	C	nd
	24	Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center)	nd 33
Nagano Pref. Shizuoka Pref.	25	Shimizu Port	nd
Silizuoka Fiel.	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	nd
Alcin I Ici.	28	Nagoya Port	22
Mie Pref.	29	Yokkaichi Port	280
WHE I ICI.	30	Toba Port	tr(9)
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	50
Singa 1 rei.	32	Lake Biwa(center, offshore of Karasaki)	20
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	270
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	89
,	37	Mouth of Riv. Yodo(Osaka City)	82
	38	Osaka Port	290
	39	Outside Osaka Port	26
Hyogo Pref.	40	Offshore of Himeji	56
Kobe City	41	Kobe Port(center)	320
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	tr(13)
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	tr(11)
·		City)	` ′
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	20
** 1:D 0	46	Hiroshima Bay	26
Yamaguchi Pref.	47	Tokuyama Bay	40
	48	Offshore of Ube	36
Tokushima Pref.	49	Offshore of Hagi	nd
	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51 52	Takamatsu Port Niihama Port	360
Ehime Pref.			nd
Kochi Pref. Kitakyushu City	53 54	Mouth of Riv. Shimanto(Shimanto City) Dokai Bay	nd 55
Fukuoka City	55	Hakata Bay	nd
Saga Pref. Nagasaki Pref.	56 57	Imari Bay Omura Bay	nd nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oydo(Miyazaki City)	nd nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd nd
Kagosiiima Pref.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	
Okinawa Pref.	62	Naha Port	nd 55
		Nana Port	· · · · · · · · · · · · · · · · · · ·

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr : detection limit value and more, less than Quantification limit value.

⁽Note 4) nd: Not detected

[14-5] Octabromodiphenyl ethers/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :48/62(Missing value :0) Detection Frequency (sample) :48/62(Missing value :0) Detection limit :2 Quantification limit :5

	stats
Geometric mean	38
Median	58
Maximum	1,900
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	22
	3	Tomakomai Port	43
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	49
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	53
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	10
Fukushima Pref.	9	Onahama Port	380
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	140
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	110
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	91
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	830
	15	Mouth of Riv. Sumida(Minato Ward)	1,100
Yokohama City	16	Yokohama Port	160
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	200
	18	Keihin Canal, Port of Kawasaki	330
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	30
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	27
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	150
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	180
Shizuoka Pref.	25	Shimizu Port	26
4: 1: D. C	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	45
Mie Pref.	28 29	Nagoya Port Yokkaichi Port	290
Mie Prei.			490 32
Shiga Pref.	30	Toba Port Lake Biwa(center, offshore of Minamihira)	170
Siliga Fiel.	32	Lake Biwa(center, offshore of Karasaki)	70
Kyoto Pref.	33	Miyazu Port	8
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	14
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	560
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	710
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	430
	38	Osaka Port	1,800
	39	Outside Osaka Port	160
Hyogo Pref.	40	Offshore of Himeji	100
Kobe City	41	Kobe Port(center)	200
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	120
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	110
Okayama Pref.	44	Offshore of Mizushima	tr(4)
Hiroshima Pref.	45	Kure Port	230
	46	Hiroshima Bay	300
Yamaguchi Pref.	47	Tokuyama Bay	1,100
Č	48	Offshore of Ube	62
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	1,900
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	8
Kitakyushu City	54	Dokai Bay	570
Fukuoka City	55	Hakata Bay	38
Saga Pref.	56	Imari Bay	27
Nagasaki Pref.	57	Omura Bay	8
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.		Naha Port	330

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-6] Nonabromodiphenyl ethers/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :61/62(Missing value :0) Detection Frequency (sample) :61/62(Missing value :0) Detection limit :5 Quantification limit :15

	stats
Geometric mean	400
Median	490
Maximum	29,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	34
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	160
	3	Tomakomai Port	340
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	tr(9)
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	530
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	tr(6)
Akita Pref.	7	Lake Hachiro	210
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	69
Fukushima Pref.	9	Onahama Port	2,000
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	2,500
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	17
Chiba Pref.	12	Coast of Ichihara and Anegasaki	760
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	510
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	9,100
	15	Mouth of Riv. Sumida(Minato Ward)	7,600
Yokohama City	16	Yokohama Port	1,100
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	1,500
	18	Keihin Canal, Port of Kawasaki	2,800
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	280
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	130
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	2,700
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(11)
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	65
Nagano Pref.	24	Lake Suwa(center)	850
Shizuoka Pref.	25	Shimizu Port	210
	26	Riv. Tenryu(Iwata City)	17
Aichi Pref.	27	Kinuura Port	830
	28	Nagoya Port	7,400
Mie Pref.	29	Yokkaichi Port	3,500
	30	Toba Port	200
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	650
	32	Lake Biwa(center, offshore of Karasaki)	430
Kyoto Pref.	33	Miyazu Port	92
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	140
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	2,600
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	7,300
	37	Mouth of Riv. Yodo(Osaka City)	5,100
	38	Osaka Port	25,000
	39	Outside Osaka Port	2,300
Hyogo Pref.	40	Offshore of Himeji	660
Kobe City	41	Kobe Port(center)	2,400
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	1,200
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	2,200
•		City)	2,200
Okayama Pref.	44	Offshore of Mizushima	110
Hiroshima Pref.	45	Kure Port	2,100
	46	Hiroshima Bay	3,600
Yamaguchi Pref.	47	Tokuyama Bay	29,000
	48	Offshore of Ube	440
	49	Offshore of Hagi	40
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	57
Kagawa Pref.	51	Takamatsu Port	24,000
Ehime Pref.	52	Niihama Port	tr(14)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	65
Kitakyushu City	54	Dokai Bay	4,800
Fukuoka City	55	Hakata Bay	470
Saga Pref.	56	Imari Bay	240
Nagasaki Pref.	57	Omura Bay	100
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	tr(14)
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	tr(14)
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
		Riv. Amori(Kirishima City) Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City) Naha Port	nd tr(12) 2,500

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) ${\rm tr}$: detection limit value and more, less than Quantification limit value.

[14-7] Decabromodiphenyl ether/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :10 Quantification limit :30

	stats
Geometric mean	4,600
Median	5,700
Maximum	580,000
Minimum	tr(27)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	370
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1,800
	3	Tomakomai Port	4,800
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	69
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	6,100
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	61
Akita Pref.	7	Lake Hachiro	1,300
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	510
Fukushima Pref.	9	Onahama Port	20,000
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	23,000
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	110
Chiba Pref.	12	Coast of Ichihara and Anegasaki	7,600
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	3,600
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	180,000
	15	Mouth of Riv. Sumida(Minato Ward)	150,000
Yokohama City	16	Yokohama Port	17,000
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	22,000
	18	Keihin Canal, Port of Kawasaki	55,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	2,800
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	1,900
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	74,000
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	61
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	530
Nagano Pref.	24	Lake Suwa(center)	10,000
Shizuoka Pref.	25	Shimizu Port	2,600
	26	Riv. Tenryu(Iwata City)	130
Aichi Pref.	27	Kinuura Port	16,000
	28	Nagoya Port	160,000
Mie Pref.	29	Yokkaichi Port	44,000
	30	Toba Port	4,200
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	14,000
S	32	Lake Biwa(center, offshore of Karasaki)	4,800
Kyoto Pref.	33	Miyazu Port	670
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	800
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	37,000
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	50,000
,	37	Mouth of Riv. Yodo(Osaka City)	38,000
	38	Osaka Port	580,000
	39	Outside Osaka Port	37,000
Hyogo Pref.	40	Offshore of Himeji	6,900
Kobe City	41	Kobe Port(center)	25,000
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	12,000
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	,
Wakayama Pref.	43	City)	24,000
Okayama Pref.	44	Offshore of Mizushima	1,200
Hiroshima Pref.	45	Kure Port	21,000
	46	Hiroshima Bay	53,000
Yamaguchi Pref.	47	Tokuyama Bay	520,000
g	48	Offshore of Ube	5,300
	49	Offshore of Hagi	380
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	490
Kagawa Pref.	51	Takamatsu Port	330,000
Ehime Pref.	52	Niihama Port	82
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	510
Kitakyushu City	54	Dokai Bay	110,000
Fukuoka City	55	Hakata Bay	6,000
Saga Pref.	56	Imari Bay	3,600
Nagasaki Pref.	57	Omura Bay	1,500
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	140
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	120
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(27)
ragosiiilla i ici.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	79
Okinawa Pref.	62	Naha Port	38,000
(Note 1) Detection f	02	Inalia Foli	30,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[17] Pentachlorobenzene/sediment (pg/g-wet)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample):62/62(Missing value:0) Detection limit :0.5 Quantification limit:1.2

	stats
Geometric mean	61
Median	61
Maximum	2,800
Minimum	1.3

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	20
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	120
	3	Tomakomai Port	63
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	21
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	220
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	6.3
Akita Pref.	7	Lake Hachiro	82
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	44
Fukushima Pref.	9	Onahama Port	2,800
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	170
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	5.2
Chiba Pref.	12	Coast of Ichihara and Anegasaki	120
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	17
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	1,200
	15	Mouth of Riv. Sumida(Minato Ward)	1,000
Yokohama City	16	Yokohama Port	220
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	170
	18	Keihin Canal, Port of Kawasaki	1,300
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	67
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	41
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	110
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	5.4
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	5.1
Nagano Pref.	24	Lake Suwa(center)	830
Shizuoka Pref.	25	Shimizu Port	58
	26	Riv. Tenryu(Iwata City)	19
Aichi Pref.	27	Kinuura Port	52
	28	Nagoya Port	71
Mie Pref.	29	Yokkaichi Port	100
	30	Toba Port	51
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	210
	32	Lake Biwa(center, offshore of Karasaki)	60
Kyoto Pref.	33	Miyazu Port	17
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	34
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	210
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	260
	37	Mouth of Riv. Yodo(Osaka City)	240
	38	Osaka Port	610
** ** **	39	Outside Osaka Port	150
Hyogo Pref.	40	Offshore of Himeji	94
Kobe City	41	Kobe Port(center)	150
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	7.5
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	31
Ol P C	4.4	City)	1.7
Okayama Pref.	44	Offshore of Mizushima	17
Hiroshima Pref.	45	Kure Port	130
Yamaguchi Pref.	46 47	Hiroshima Bay	62
r amaguem Prei.	48	Tokuyama Bay Offshore of Ube	28
	48	Offshore of Hagi	
T 1 1: D C		ě	11
Tokushima Pref. Kagawa Pref.	50 51	Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port	23 220
Ehime Pref.	52	Niihama Port	32
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	41
Kitakyushu City	54	Dokai Bay	1,600
Fukuoka City	55	Hakata Bay	28
Saga Pref.	56	Imari Bay	45
Nagasaki Pref.	57	Omura Bay	39
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	3.0
Miyazaki Pref.	59	Mouth of Riv. Ora(Ora City) Mouth of Riv. Oyodo(Miyazaki City)	9.5
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	1.3
Kagosiiilia Fiel.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	3.8
Okinawa Pref.	62	Naha Port	73
		v (site) is based on the number of sites, thus means (the number of detected sites/the number	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[20] Total Polychlorinated Naphthalenes/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :*9.1 Quantification limit :*27

	stats
Geometric mean	630
Median	800
Maximum	32,000
Minimum	tr(16)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	27
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	280
	3	Tomakomai Port	260
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	110
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	850
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	190
Akita Pref.	7	Lake Hachiro	470
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	200
Fukushima Pref.	9	Onahama Port	3,000
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	390
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	67
Chiba Pref.	12	Coast of Ichihara and Anegasaki	1,600
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	140
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	4,900
	15	Mouth of Riv. Sumida(Minato Ward)	19,000
Yokohama City	16	Yokohama Port	28,000
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	7,000
	18	Keihin Canal, Port of Kawasaki	32,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	210
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	210
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	1,000
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(20)
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	70
Nagano Pref.	24	Lake Suwa(center)	2,800
Shizuoka Pref.	25	Shimizu Port	640
	26	Riv. Tenryu(Iwata City)	60
Aichi Pref.	27	Kinuura Port	890
	28	Nagoya Port	880
Mie Pref.	29	Yokkaichi Port	1,500
	30	Toba Port	3,300
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	1,100
8	32	Lake Biwa(center, offshore of Karasaki)	490
Kyoto Pref.	33	Miyazu Port	1,900
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	1,800
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	2,800
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	3,000
	37	Mouth of Riv. Yodo(Osaka City)	3,500
	38	Osaka Port	14,000
	39	Outside Osaka Port	2,600
Hyogo Pref.	40	Offshore of Himeji	800
Kobe City	41	Kobe Port(center)	6,900
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	100
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	350
Okayama Pref.	44	Offshore of Mizushima	140
Hiroshima Pref.	45	Kure Port	6,100
	46	Hiroshima Bay	1,500
Yamaguchi Pref.	47	Tokuyama Bay	410
- amagacin i ici.	48	Offshore of Ube	560
	49	Offshore of Hagi	160
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	140
Kagawa Pref.	51	Takamatsu Port	6,100
Ehime Pref.	52	Niihama Port	tr(20)
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	190
Kitakyushu City	54	Dokai Bay	6,600
Fukuoka City	55	Hakata Bay	910
Saga Pref.	56	Imari Bay	1,200
Nagasaki Pref.	57	Omura Bay	790
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	tr(22)
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	38
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(16)
ragosinina i ici.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(17)
Okinawa Pref.	62	Naha Port	4,100
(Note 1) Detection f	02	INAIIA FOIL	7,100

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

(Note 4) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[20-1] monochlorinated Naphthalene/sediment (pg/g-dry)

Monitored year :2017

Detection Frequency (site):55/62(Missing value:0)
Detection Frequency (sample):55/62(Missing value:0)

Detection limit :6 Quantification limit :18

	stats
Geometric mean	66
Median	76
Maximum	5,500
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	tr(8)
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	46
	3	Tomakomai Port	52
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	tr(11)
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	69
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	18
Akita Pref.	7	Lake Hachiro	40
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	170
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	24
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	140
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	tr(12)
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	400
	15	Mouth of Riv. Sumida(Minato Ward)	1,300
Yokohama City	16	Yokohama Port	3,600
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	550
	18	Keihin Canal, Port of Kawasaki	3,700
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	tr(14)
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	tr(16)
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	84
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	tr(9)
Nagano Pref.	24	Lake Suwa(center)	120
Shizuoka Pref.	25	Shimizu Port	48
4: 1: D. C	26	Riv. Tenryu(Iwata City)	nd 92
Aichi Pref.	27	Kinuura Port	
Mie Pref.	28 29	Nagoya Port Yokkaichi Port	160
Mie Prei.			210
Shiga Pref.	30	Toba Port Lake Biwa(center, offshore of Minamihira)	210 97
Siliga Fiel.	32	Lake Biwa(center, offshore of Karasaki)	48
Kyoto Pref.	33	Miyazu Port	490
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	210
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	160
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	320
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	270
	38	Osaka Port	5,500
	39	Outside Osaka Port	570
Hyogo Pref.	40	Offshore of Himeji	88
Kobe City	41	Kobe Port(center)	270
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	tr(9)
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	· · · · · · · · · · · · · · · · · · ·
Wakayama Pref.	43	City)	18
Okayama Pref.	44	Offshore of Mizushima	30
Hiroshima Pref.	45	Kure Port	340
	46	Hiroshima Bay	120
Yamaguchi Pref.	47	Tokuyama Bay	83
Ü	48	Offshore of Ube	53
	49	Offshore of Hagi	18
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	25
Kagawa Pref.	51	Takamatsu Port	1,300
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	31
Kitakyushu City	54	Dokai Bay	390
Fukuoka City	55	Hakata Bay	63
Saga Pref.	56	Imari Bay	130
Nagasaki Pref.	57	Omura Bay	100
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	tr(16)
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(6)
1	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	61	Gottanda Gushi Bridge, 141. Gottanda (Tehnkikushikino City)	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[20-2] dichlorinated Naphthalene/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.4 Quantification limit :1.1

	stats
Geometric mean	74
Median	77
Maximum	9,000
Minimum	2.3

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	3.4
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	26
	3	Tomakomai Port	53
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	6.9
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	82
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	2.6
Akita Pref.	7	Lake Hachiro	56
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	12
Fukushima Pref.	9	Onahama Port	280
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	38
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	3.9
Chiba Pref.	12	Coast of Ichihara and Anegasaki	240
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	12
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	630
	15	Mouth of Riv. Sumida(Minato Ward)	3,800
Yokohama City	16	Yokohama Port	8,200
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	1,400
	18	Keihin Canal, Port of Kawasaki	9,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	21
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	15
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	92
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	3.9
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	5.6
Nagano Pref.	24	Lake Suwa(center)	260
Shizuoka Pref.	25	Shimizu Port	56
4:1:D C	26	Riv. Tenryu(Iwata City)	14
Aichi Pref.	27	Kinuura Port	130
M: D C	28	Nagoya Port	150
Mie Pref.	29	Yokkaichi Port	150
China Duaf	30	Toba Port	660
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira) Lake Biwa(center, offshore of Karasaki)	44
Vt- Df		Miyazu Port	
Kyoto Pref. Kyoto City	33	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	960 290
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	160
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	230
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	420
	38	Osaka Port	1,600
	39	Outside Osaka Port	320
Hyogo Pref.	40	Offshore of Himeji	100
Kobe City	41	Kobe Port(center)	690
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	6.9
Ivara i ici.	72	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	0.7
Wakayama Pref.	43	City)	26
Okayama Pref.	44	Offshore of Mizushima	23
Hiroshima Pref.	45	Kure Port	710
1111 0 511111111 1 1 1 1 1 1	46	Hiroshima Bay	180
Yamaguchi Pref.	47	Tokuyama Bay	72
Tumagaem Tren	48	Offshore of Ube	53
	49	Offshore of Hagi	21
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	19
Kagawa Pref.	51	Takamatsu Port	1,200
Ehime Pref.	52	Niihama Port	3.6
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	18
Kitakyushu City	54	Dokai Bay	440
Fukuoka City	55	Hakata Bay	63
Saga Pref.	56	Imari Bay	120
Nagasaki Pref.	57	Omura Bay	110
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	3.7
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	4.2
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	2.3
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	4.2
Okinawa Pref.	62	Naha Port	860
(Note 1) Detection ((site) is besed on the number of sites, thus many (the number of detected sites/the numbers	0 1 1:)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[20-3] trichlorinated Naphthalene/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.5 Quantification limit :1.3

	stats
Geometric mean	100
Median	150
Maximum	7,400
Minimum	tr(1.1)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	3.1
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	41
	3	Tomakomai Port	36
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	14
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	140
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	13
Akita Pref.	7	Lake Hachiro	90
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	32
Fukushima Pref.	9	Onahama Port	480
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	48
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	15
Chiba Pref.	12	Coast of Ichihara and Anegasaki	300
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	13
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	870
•	15	Mouth of Riv. Sumida(Minato Ward)	4,100
Yokohama City	16	Yokohama Port	5,800
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	1,200
•	18	Keihin Canal, Port of Kawasaki	7,400
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	42
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	38
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	240
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	7.4
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	8.4
Nagano Pref.	24	Lake Suwa(center)	540
Shizuoka Pref.	25	Shimizu Port	94
Silizuoka 1 ici.	26	Riv. Tenryu(Iwata City)	9.8
Aichi Pref.	27	Kinuura Port	200
Alcili I Ici.	28	Nagova Port	170
Mie Pref.	29	Yokkaichi Port	170
whe riel.	30	Toba Port	1,100
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	190
Siliga I Ici.	32	Lake Biwa(center, offshore of Karasaki)	78
Vt- Df	33	Miyazu Port	190
Kyoto Pref. Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	420
Osaka Pref.	35 36	Mouth of Riv. Yamato(Sakai City)	410 460
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	
	37	Mouth of Riv. Yodo(Osaka City)	640
	38	Osaka Port	2,300
II D C		Outside Osaka Port	440
Hyogo Pref.	40	Offshore of Himeji	160
Kobe City	41	Kobe Port(center)	1,600
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	8.9
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	63
<u> </u>		City)	
Okayama Pref.	44	Offshore of Mizushima	27
Hiroshima Pref.	45	Kure Port	1,400
**	46	Hiroshima Bay	330
Yamaguchi Pref.	47	Tokuyama Bay	65
	48	Offshore of Ube	110
	49	Offshore of Hagi	39
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	19
Kagawa Pref.	51	Takamatsu Port	690
Ehime Pref.	52	Niihama Port	2.1
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	25
Kitakyushu City	54	Dokai Bay	1,100
Fukuoka City	55	Hakata Bay	150
Saga Pref.	56	Imari Bay	200
Nagasaki Pref.	57	Omura Bay	170
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	4.5
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	4.2
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	1.8
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	tr(1.1)
	01	Gotanda Gashi Bridge, 141. Gotanda (Temkikashiking Gity)	()

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[20-4] tetrachlorinated Naphthalene/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.5 Quantification limit :1.5

	stats
Geometric mean	210
Median	250
Maximum	5,900
Minimum	5.7

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	9.9
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	110
	3	Tomakomai Port	70
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	44
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	280
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	95
Akita Pref.	7	Lake Hachiro	170
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	100
Fukushima Pref.	9	Onahama Port	1,000
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	130
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	32
Chiba Pref.	12	Coast of Ichihara and Anegasaki	520
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	49
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	1,600
•	15	Mouth of Riv. Sumida(Minato Ward)	5,900
Yokohama City	16	Yokohama Port	4,500
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	2,000
ř	18	Keihin Canal, Port of Kawasaki	5,800
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	80
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	80
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	400
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	7.3
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	27
Nagano Pref.	24	Lake Suwa(center)	1,100
Shizuoka Pref.	25	Shimizu Port	250
Silizuoka 1 iei.	26	Riv. Tenryu(Iwata City)	28
Aichi Pref.	27	Kinuura Port	300
Alcin I Ici.	28	Nagoya Port	250
Mie Pref.	29	Yokkaichi Port	370
when then.	30	Toba Port	990
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	390
Siliga Fiel.	32	Lake Biwa(center, offshore of Karasaki)	170
Kyoto Pref.	33	Miyazu Port	200
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	620
Osaka Pref. Osaka City	35 36	Mouth of Riv. Yamato(Sakai City) Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,200 1,100
Osaka City	37	U	1,100
		Mouth of Riv. Yodo(Osaka City)	
	38	Osaka Port	2,500
II D.C		Outside Osaka Port	780
Hyogo Pref.	40	Offshore of Himeji	270
Kobe City	41	Kobe Port(center)	2,700
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	33
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	150
•		City)	
Okayama Pref.	44	Offshore of Mizushima	38
Hiroshima Pref.	45	Kure Port	2,400
	46	Hiroshima Bay	530
Yamaguchi Pref.	47	Tokuyama Bay	93
	48	Offshore of Ube	230
	49	Offshore of Hagi	54
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	49
Kagawa Pref.	51	Takamatsu Port	1,600
Ehime Pref.	52	Niihama Port	9.1
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	74
Kitakyushu City	54	Dokai Bay	2,200
Fukuoka City	55	Hakata Bay	390
Saga Pref.	56	Imari Bay	480
Nagasaki Pref.	57	Omura Bay	270
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	9.0
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	10
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	5.7
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	6.3

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[20-5] pentachlorinated Naphthalene/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :0.5 Quantification limit :1.5

	stats
Geometric mean	110
Median	120
Maximum	3,300
Minimum	tr(0.5)

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	3.0
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	51
	3	Tomakomai Port	37
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	26
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	190
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	54
Akita Pref.	7	Lake Hachiro	86
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	46
Fukushima Pref.	9	Onahama Port	600
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	79
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	15
Chiba Pref.	12	Coast of Ichihara and Anegasaki	300
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	43
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	960
W 1 1 G':	15	Mouth of Riv. Sumida(Minato Ward)	3,300
Yokohama City	16	Yokohama Port	3,200
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	1,400
Niigata Pref.	18 19	Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City)	2,800
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	45
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	190
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	tr(0.9)
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	19
Nagano Pref.	24	Lake Suwa(center)	610
Shizuoka Pref.	25	Shimizu Port	150
Silizuoka 1 ici.	26	Riv. Tenryu(Iwata City)	8.6
Aichi Pref.	27	Kinuura Port	140
Attent Tier.	28	Nagoya Port	120
Mie Pref.	29	Yokkaichi Port	290
which felt.	30	Toba Port	250
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	230
8	32	Lake Biwa(center, offshore of Karasaki)	110
Kyoto Pref.	33	Miyazu Port	74
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	230
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	730
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	740
	37	Mouth of Riv. Yodo(Osaka City)	810
	38	Osaka Port	1,400
	39	Outside Osaka Port	380
Hyogo Pref.	40	Offshore of Himeji	140
Kobe City	41	Kobe Port(center)	1,200
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	39
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	74
		City)	/-
Okayama Pref.	44	Offshore of Mizushima	16
Hiroshima Pref.	45	Kure Port	1,000
	46	Hiroshima Bay	260
Yamaguchi Pref.	47	Tokuyama Bay	56
	48	Offshore of Ube	92
	49	Offshore of Hagi	21
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	21
Kagawa Pref.	51	Takamatsu Port	1,100
Ehime Pref.	52	Niihama Port	3.6
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	40
Kitakyushu City	54	Dokai Bay	1,300
Fukuoka City	55	Hakata Bay	200
Saga Pref.	56	Imari Bay	220
Nagasaki Pref.	57	Omura Bay	110
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	4.7
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	3.5
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	tr(0.5)
Okinawa Pref.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	5.0
Okinawa Pref.	62	Naha Port	840

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

[20-6] hexachlorinated Naphthalene/sediment (pg/g-dry)

Monitored year :2017

Detection Frequency (site) :55/62(Missing value :0)
Detection Frequency (sample) :55/62(Missing value :0)

Detection limit :0.6 Quantification limit :1.6

	stats
Geometric mean	22
Median	28
Maximum	2,300
Minimum	nd

	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	8.0
	3	Tomakomai Port	8.5
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	3.7
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	67
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	8.3
Akita Pref.	7	Lake Hachiro	23
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	6.5
Fukushima Pref.	9	Onahama Port	260
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	50
Tochigi Pref. Chiba Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City) Coast of Ichihara and Anegasaki	tr(1.5)
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	8.3
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	330
Tokyo Wict.	15	Mouth of Riv. Alakawa(Roto Ward) Mouth of Riv. Sumida(Minato Ward)	780
Yokohama City	16	Yokohama Port	1,700
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	400
Kawasaki City	18	Keihin Canal, Port of Kawasaki	2,300
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	7.6
Tovama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	12
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	31
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	
Nagano Pref.	24	Lake Suwa(center)	tr(1.5)
Shizuoka Pref.		Shimizu Port	
Snizuoka Prei.	25		31
Aichi Pref.	26 27	Riv. Tenryu(Iwata City)	nd 27
Aichi Prei.		Kinuura Port	27
M. D. C	28	Nagoya Port	29
Mie Pref.	29	Yokkaichi Port	170
CI. D. C	30	Toba Port	42
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	74
IZ + D C		Lake Biwa(center, offshore of Karasaki)	31
Kyoto Pref.	33	Miyazu Port	14
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	= -
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	140
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	150
	37	Mouth of Riv. Yodo(Osaka City)	190
	38	Osaka Port	
			470
II D C	39	Outside Osaka Port	130
Hyogo Pref.	39 40	Offshore of Himeji	130 34
Kobe City	39 40 41	Offshore of Himeji Kobe Port(center)	130 34 380
, ,	39 40	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town)	130 34
Kobe City Nara Pref.	39 40 41	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	130 34 380
Kobe City Nara Pref. Wakayama Pref.	39 40 41 42 43	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	130 34 380 6.3 14
Kobe City Nara Pref. Wakayama Pref. Okayama Pref.	39 40 41 42 43 44	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima	130 34 380 6.3 14 5.2
Kobe City Nara Pref. Wakayama Pref. Okayama Pref.	39 40 41 42 43 44 45	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port	130 34 380 6.3 14 5.2 250
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref.	39 40 41 42 43 44 45 46	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay	130 34 380 6.3 14 5.2 250 60
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref.	39 40 41 42 43 44 45 46 47	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay	130 34 380 6.3 14 5.2 250 60 27
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref.	39 40 41 42 43 44 45 46 47 48	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube	130 34 380 6.3 14 5.2 250 60 27 22
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Yamaguchi Pref.	39 40 41 42 43 44 45 46 47 48 49	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi	130 34 380 6.3 14 5.2 250 60 27 22 3.4
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Yamaguchi Pref.	39 40 41 42 43 44 45 46 47 48 49 50	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City)	130 34 380 6.3 14 5.2 250 60 27 22 3.4 2.6
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Camaguchi Pref. Cokushima Pref. Kagawa Pref.	39 40 41 42 43 44 45 46 47 48 49 50 51	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port	130 34 380 6.3 14 5.2 250 60 27 22 3.4 2.6 150
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Camaguchi Pref. Cokushima Pref. Kagawa Pref. Ehime Pref.	39 40 41 42 43 44 45 46 47 48 49 50 51 52	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port	130 34 380 6.3 14 5.2 250 60 27 22 3.4 2.6 150 tr(0.9)
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Camaguchi Pref. Cokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref.	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City)	130 34 380 6.3 14 5.2 250 60 27 22 3.4 2.6 150 tr(0.9) 3.9
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Yamaguchi Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay	130 34 380 6.3 14 5.2 250 60 27 22 3.4 2.6 150 tr(0.9) 3.9 800
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Yamaguchi Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay	130 34 380 6.3 14 5.2 250 60 27 22 3.4 2.6 150 tr(0.9) 3.9 800 35
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Yamaguchi Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref.	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay	130 34 380 6.3 14 5.2 250 60 27 22 3.4 2.6 150 tr(0.9) 3.9 800 35 41
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Yamaguchi Pref. Kagawa Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref.	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay	130 34 380 6.3 14 5.2 250 60 27 22 3.4 2.6 150 tr(0.9) 3.9 800 35 41
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Yamaguchi Pref. Kagawa Pref. Kagawa Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref.	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay Mouth of Riv. Oita(Oita City)	130 34 380 6.3 14 5.2 250 60 27 22 3.4 2.6 150 tr(0.9) 3.9 800 35 41 25 nd
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Yamaguchi Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref. Miyazaki Pref.	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay Mouth of Riv. Oita(Oita City) Mouth of Riv. Oyodo(Miyazaki City)	130 34 380 6.3 14 5.2 250 60 27 22 3.4 2.6 150 tr(0.9) 3.9 800 35 41 25 nd nd
Kobe City Nara Pref. Wakayama Pref. Okayama Pref. Hiroshima Pref. Yamaguchi Pref. Fokushima Pref. Kagawa Pref. Kochi Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref.	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	Offshore of Himeji Kobe Port(center) Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City) Offshore of Mizushima Kure Port Hiroshima Bay Tokuyama Bay Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino(Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto(Shimanto City) Dokai Bay Hakata Bay Imari Bay Omura Bay Mouth of Riv. Oita(Oita City)	130 34 380 6.3 14 5.2 250 60 27 22 3.4 2.6 150 tr(0.9) 3.9 800 35 41 25 nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[20-7] heptachlorinated Naphthalene/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :52/62(Missing value :0) Detection Frequency (sample) :52/62(Missing value :0)

Detection limit :0.3 Quantification limit :0.7

	stats
Geometric mean	4.4
Median	5.1
Maximum	680
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1.4
	3	Tomakomai Port	2.6
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	15
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	tr(0.4)
Akita Pref.	7	Lake Hachiro	6.5
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	1.3
Fukushima Pref.	9	Onahama Port	120
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	20
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	20
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	1.1
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	
V 1 1 C'	15	Mouth of Riv. Sumida(Minato Ward)	150
Yokohama City	16	Yokohama Port	500
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	59
Niigata Pref.	18 19	Keihin Canal, Port of Kawasaki Lower Riv. Shinano(Niigata City)	680 1.7
		(8 7)	4.7
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	
Ishikawa Pref. Fukui Pref.	21	Mouth of Riv. Sai(Kanazawa City)	4.2
Yamanashi Pref.	23	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd nd
Nagano Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center)	nd 12
Shizuoka Pref.	25	Shimizu Port	5.9
Silizuoka Fiel.	26	Riv. Tenryu(Iwata City)	
Aichi Pref.	27	Kinuura Port	nd 2.9
Alcili Fiel.	28	Nagoya Port	4.3
Mie Pref.	29	Yokkaichi Port	86
Mile Fiel.	30	Toba Port	5.9
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	17
Siliga I ICI.	32	Lake Biwa(center, offshore of Karasaki)	5.4
Kyoto Pref.	33	Miyazu Port	2.2
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	1.8
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	19
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	19
Obuku City	37	Mouth of Riv. Yodo(Osaka City)	25
•	38	Osaka Port	63
•	39	Outside Osaka Port	24
Hyogo Pref.	40	Offshore of Himeji	6.0
Kobe City	41	Kobe Port(center)	63
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	tr(0.3)
****		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	, ,
Wakayama Pref.	43	City)	1.2
Okayama Pref.	44	Offshore of Mizushima	1.5
Hiroshima Pref.	45	Kure Port	34
ļ	46	Hiroshima Bay	12
Yamaguchi Pref.	47	Tokuyama Bay	9.2
-	48	Offshore of Ube	4.3
	49	Offshore of Hagi	tr(0.5)
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	0.7
Kagawa Pref.	51	Takamatsu Port	15
Ehime Pref.	52	Niihama Port	1.2
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	tr(0.4)
Kitakyushu City	54	Dokai Bay	280
Fukuoka City	55	Hakata Bay	7.9
Saga Pref.	56	Imari Bay	8.8
Nagasaki Pref.	57	Omura Bay	4.2
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[20-8] octachlorinated Naphthalene/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :43/62(Missing value :0) Detection Frequency (sample) :43/62(Missing value :0) Detection limit :0.3 Quantification limit :0.8

	stats
Geometric mean	1.4
Median	1.2
Maximum	270
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	0.8
	3	Tomakomai Port	0.8
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	2.6
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	2.3
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	0.9
Fukushima Pref.	9	Onahama Port	41
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	2.6
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	8.9
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	tr(0.3)
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	25
	15	Mouth of Riv. Sumida(Minato Ward)	29
Yokohama City	16	Yokohama Port	270
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	12
	18	Keihin Canal, Port of Kawasaki	220
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	tr(0.6)
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	3.8
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	1.3
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	2.5
Shizuoka Pref.	25	Shimizu Port	2.2
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	1.0
	28	Nagoya Port	1.0
Mie Pref.	29	Yokkaichi Port	31
	30	Toba Port	2.5
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	3.2
	32	Lake Biwa(center, offshore of Karasaki)	1.1
Kyoto Pref.	33	Miyazu Port	tr(0.4)
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	4.3
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	4.8
	37	Mouth of Riv. Yodo(Osaka City)	3.9
	38	Osaka Port	11
	39	Outside Osaka Port	4.9
Hyogo Pref.	40	Offshore of Himeji	nd
Kobe City	41	Kobe Port(center)	13
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	nd
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	nd
-		City)	nd
Okayama Pref.	44	Offshore of Mizushima	tr(0.6)
Hiroshima Pref.		Kure Port	8.6
	46	Hiroshima Bay	3.5
Yamaguchi Pref.	47	Tokuyama Bay	2.9
	48	Offshore of Ube	tr(0.7)
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	4.3
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	79
Fukuoka City	55	Hakata Bay	1.5
Saga Pref.	56	Imari Bay	1.2
Nagasaki Pref.	57	Omura Bay	1.2
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
01: 2 2	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	3.8

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[22] Pentachlorophenol and its salts and esters/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :*4 Quantification limit :*9

	stats
Geometric mean	410
Median	470
Maximum	7,400
Minimum	9

ocal communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	180
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1,300
	3	Tomakomai Port	180
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	160
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	440
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	50
Akita Pref.	7	Lake Hachiro	1,400
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	260
Fukushima Pref.	9	Onahama Port	1,900
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	240
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	79
Chiba Pref.	12	Coast of Ichihara and Anegasaki	7,400
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	120
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	3,000
77 1 1 61	15	Mouth of Riv. Sumida(Minato Ward)	4,800
Yokohama City	16	Yokohama Port	1,300
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	620
N	18	Keihin Canal, Port of Kawasaki	1,900
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	340
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	170
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	230
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	15
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	140
Nagano Pref.	24	Lake Suwa(center)	3,400
Shizuoka Pref.	25	Shimizu Port	290
	26	Riv. Tenryu(Iwata City)	150
Aichi Pref.	27	Kinuura Port	1,300
	28	Nagoya Port	640
Mie Pref.	29	Yokkaichi Port	1,400
	30	Toba Port	940
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	1,600
	32	Lake Biwa(center, offshore of Karasaki)	380
Kyoto Pref.	33	Miyazu Port	110
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	560
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	1,100
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	2,700
	37	Mouth of Riv. Yodo(Osaka City)	4,600
	38	Osaka Port	7,000
	39	Outside Osaka Port	1,500
Hyogo Pref.	40	Offshore of Himeji	490
Kobe City	41	Kobe Port(center)	1,300
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	150
Wakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	420
vv akayama 1 ici.	73	City)	420
Okayama Pref.	44	Offshore of Mizushima	66
Hiroshima Pref.	45	Kure Port	780
	46	Hiroshima Bay	490
Yamaguchi Pref.	47	Tokuyama Bay	86
[48	Offshore of Ube	95
	49	Offshore of Hagi	100
Γokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	68
Kagawa Pref.	51	Takamatsu Port	1,300
Ehime Pref.	52	Niihama Port	9
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	620
Kitakyushu City	54	Dokai Bay	1,000
Fukuoka City	55	Hakata Bay	170
Saga Pref.	56	Imari Bay	760
Nagasaki Pref.	57	Omura Bay	200
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	49
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	550
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	21
-	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	110
	62	Naha Port	2,600

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[22-1] Pentachlorophenol/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :62/62(Missing value :0) Detection Frequency (sample) :62/62(Missing value :0) Detection limit :2 Quantification limit :4

	stats
Geometric mean	350
Median	390
Maximum	7,400
Minimum	8

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	130
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	1,100
	3	Tomakomai Port	170
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	42
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	420
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	29
Akita Pref.	7	Lake Hachiro	1,300
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	230
Fukushima Pref.	9	Onahama Port	1,800
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	220
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	59
Chiba Pref.	12	Coast of Ichihara and Anegasaki	7,400
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	110
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	2,900
	15	Mouth of Riv. Sumida(Minato Ward)	4,600
Yokohama City	16	Yokohama Port	1,300
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	510
	18	Keihin Canal, Port of Kawasaki	1,800
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	310
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	140
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	200
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	8
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	110
Nagano Pref.	24	Lake Suwa(center)	3,300
Shizuoka Pref.	25	Shimizu Port	270
	26	Riv. Tenryu(Iwata City)	64
Aichi Pref.	27	Kinuura Port	1,300
	28	Nagoya Port	610
Mie Pref.	29	Yokkaichi Port	1,300
	30	Toba Port	890
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	1,500
-	32	Lake Biwa(center, offshore of Karasaki)	350
Kyoto Pref.	33	Miyazu Port	99
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	420
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	1,000
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	2,600
	37	Mouth of Riv. Yodo(Osaka City)	4,400
	38	Osaka Port	6,800
	39	Outside Osaka Port	1,500
Hyogo Pref.	40	Offshore of Himeji	450
Kobe City	41	Kobe Port(center)	1,300
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	140
W-1 Df	12	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	270
Wakayama Pref.	43	City)	270
Okayama Pref.	44	Offshore of Mizushima	59
Hiroshima Pref.	45	Kure Port	710
	46	Hiroshima Bay	460
Yamaguchi Pref.	47	Tokuyama Bay	81
	48	Offshore of Ube	84
	49	Offshore of Hagi	100
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	48
Kagawa Pref.	51	Takamatsu Port	1,200
Ehime Pref.	52	Niihama Port	9
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	480
Kitakyushu City	54	Dokai Bay	1,000
Fukuoka City	55	Hakata Bay	160
Saga Pref.	56	Imari Bay	730
Nagasaki Pref.	57	Omura Bay	190
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	43
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	360
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	18
		·	
ragosiiiia r iei.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	86

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[22-2] Pentachloroanisole/sediment (pg/g-dry)

Monitored year :2017 Detection Frequency (site) :61/62(Missing value :0) Detection Frequency (sample) :61/62(Missing value :0) Detection limit :2 Quantification limit :5

	stats
Geometric mean	34
Median	32
Maximum	190
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	55
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	160
	3	Tomakomai Port	13
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	120
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	19
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	21
Akita Pref.	7	Lake Hachiro	50
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	29
Fukushima Pref.	9	Onahama Port	95
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	17
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	20
Chiba Pref.	12	Coast of Ichihara and Anegasaki	16
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	7
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	130
	15	Mouth of Riv. Sumida(Minato Ward)	150
Yokohama City	16	Yokohama Port	28
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	110
	18	Keihin Canal, Port of Kawasaki	60
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	32
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	27
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	31
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	7
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	30
Nagano Pref.	24	Lake Suwa(center)	120
Shizuoka Pref.	25	Shimizu Port	23
	26	Riv. Tenryu(Iwata City)	88
Aichi Pref.	27	Kinuura Port	42
M. D. C	28	Nagoya Port	34
Mie Pref.	29	Yokkaichi Port	61
Chi D	30	Toba Port Lake Biwa(center, offshore of Minamihira)	53
Shiga Pref.	31	,	150 26
Vt- Df	33	Lake Biwa(center, offshore of Karasaki) Miyazu Port	14
Kyoto Pref. Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	140
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	84
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	120
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	170
	38	Osaka Port	160
	39	Outside Osaka Port	41
Hyogo Pref.	40	Offshore of Himeji	41
Kobe City	41	Kobe Port(center)	27
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	10
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	150
Okayama Pref.	44	Offshore of Mizushima	7
Hiroshima Pref.	45	Kure Port	66
	46	Hiroshima Bay	28
Yamaguchi Pref.	47	Tokuyama Bay	5
8	48	Offshore of Ube	11
	49	Offshore of Hagi	5
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	20
Kagawa Pref.	51	Takamatsu Port	78
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	140
Kitakyushu City	54	Dokai Bay	34
Fukuoka City	55	Hakata Bay	13
Saga Pref.	56	Imari Bay	27
Nagasaki Pref.	57	Omura Bay	13
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	6
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	190
	60	Riv. Amori(Kirishima City)	tr(3)
Kagoshima Pref.	60	rav. ranori(ransima eng)	u(3)
Kagoshima Pref.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	21

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[23]Short-chain chlorinated paraffins/sediment (pg/g-dry)

Monitored year :2017

Detection Frequency (site) :17/62(Missing value :0)
Detection Frequency (sample) :17/62(Missing value :0)

Detection limit :*17,000 Quantification limit :*43,000

	stats
Geometric mean	tr(5,300)
Median	nd
Maximum	190,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
	3	Tomakomai Port	nd
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	tr(17,000)
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	nd
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	tr(28,000)
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	nd
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	55,000
	15	Mouth of Riv. Sumida(Minato Ward)	140,000
Yokohama City	16	Yokohama Port	tr(41,000)
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	tr(38,000)
	18	Keihin Canal, Port of Kawasaki	74,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	nd
Shizuoka Pref.	25	Shimizu Port	nd
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	nd
	28	Nagoya Port	tr(37,000)
Mie Pref.	29	Yokkaichi Port	nd
	30	Toba Port	nd
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	nd
	32	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	tr(27,000)
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	tr(26,000)
Ť	37	Mouth of Riv. Yodo(Osaka City)	nd
	38	Osaka Port	nd
	39	Outside Osaka Port	nd
Hyogo Pref.	40	Offshore of Himeji	nd
Kobe City	41	Kobe Port(center)	tr(17,000)
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	nd
IV. 1 D. C	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	1
Wakayama Pref.	43	City)	nd
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	tr(23,000)
	46	Hiroshima Bay	nd
Yamaguchi Pref.	47	Tokuyama Bay	nd
-	48	Offshore of Ube	nd
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	47,000
Ehime Pref.	52	Niihama Port	nd
	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kochi Pref.		Dokai Bay	190,000
	54	11.1 . 12	
Kochi Pref.	55	Hakata Bay	tr(19,000)
Kochi Pref. Kitakyushu City		Imari Bay	tr(19,000) nd
Kochi Pref. Kitakyushu City Fukuoka City	55		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Kochi Pref. Kitakyushu City Fukuoka City Saga Pref.	55 56	Imari Bay	nd
Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref.	55 56 57	Imari Bay Omura Bay Mouth of Riv. Oita(Oita City)	nd tr(24,000)
Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref. Miyazaki Pref.	55 56 57 58	Imari Bay Omura Bay Mouth of Riv. Oita(Oita City) Mouth of Riv. Oyodo(Miyazaki City)	nd tr(24,000) nd
Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref.	55 56 57 58 59	Imari Bay Omura Bay Mouth of Riv. Oita(Oita City)	nd tr(24,000) nd nd

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

⁽Note 4) nd: Not detected

⁽Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[23-1]Chlorinated decanes/sediment (pg/g-dry)

Monitored year :2017

Detection Frequency (site):12/62(Missing value:0)
Detection Frequency (sample):12/62(Missing value:0)

Detection limit :4,000 Quantification limit :10,000

	stats
Geometric mean	nd
Median	nd
Maximum	17,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
	3	Tomakomai Port	nd
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	nd
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	nd
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	nd
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	nd
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	10,000
****	15	Mouth of Riv. Sumida(Minato Ward)	17,000
Yokohama City	16	Yokohama Port	12,000
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	tr(6,500)
) D C	18	Keihin Canal, Port of Kawasaki	tr(9,500)
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref. Ishikawa Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
	21	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref. Yamanashi Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref. Nagano Pref.	23 24	Senshu-bashi Bridge, Riv. Arakawa(Kofu City) Lake Suwa(center)	nd
Nagano Prei. Shizuoka Pref.	25	Shimizu Port	nd nd
Snizuoka Prei.	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	nd
Alcili I Ici.	28	Nagoya Port	tr(5,800)
Mie Pref.	29	Yokkaichi Port	nd
when then	30	Toba Port	nd
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	nd
Singu i ici.	32	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	tr(4,700)
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	nd
,	37	Mouth of Riv. Yodo(Osaka City)	nd
	38	Osaka Port	nd
	39	Outside Osaka Port	nd
Hyogo Pref.	40	Offshore of Himeji	nd
Kobe City	41	Kobe Port(center)	tr(4,800)
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	nd
W.1 D.C	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	,
Wakayama Pref.	43	City)	nd
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	tr(5,900)
	46	Hiroshima Bay	nd
Yamaguchi Pref.	47	Tokuyama Bay	nd
	48	Offshore of Ube	nd
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	tr(5,600)
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	17,000
Fukuoka City	55	Hakata Bay	nd
Saga Pref.	56	Imari Bay	nd
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	tr(6,000)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[23-2]Chlorinated undecanes/sediment (pg/g-dry)

Monitored year :2017

Detection Frequency (site):19/62(Missing value:0)
Detection Frequency (sample):19/62(Missing value:0)

Detection limit :4,000 Quantification limit :10,000

	stats
Geometric mean	nd
Median	nd
Maximum	37,000
Minimum	nd

ocal communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
	3	Tomakomai Port	tr(4,000)
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	nd
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	tr(4,000)
Akita Pref.	7	Lake Hachiro	nd
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	tr(4,500)
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	nd
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	19,000
V 1 1 6''	15	Mouth of Riv. Sumida(Minato Ward)	26,000
Yokohama City	16	Yokohama Port	15,000
Kawasaki City	17 18	Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki	13,000 22,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	22,000 nd
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	•
Ishikawa Pref.	20	Mouth of Riv. Sai(Kanazawa City)	nd nd
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
amanashi Pref.	23	Senshu-bashi Bridge, Riv. Shoho (Tsuraga City) Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	nd
Shizuoka Pref.	25	Shimizu Port	nd
omzaoka i ici.	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	nd
	28	Nagoya Port	tr(6,100)
Mie Pref.	29	Yokkaichi Port	nd
	30	Toba Port	tr(7,100)
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	nd
Ü	32	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	tr(4,500)
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	tr(5,400)
	37	Mouth of Riv. Yodo(Osaka City)	nd
	38	Osaka Port	tr(6,300)
	39	Outside Osaka Port	tr(4,200)
Hyogo Pref.	40	Offshore of Himeji	nd
Kobe City	41	Kobe Port(center)	tr(5,700)
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	nd
Vakayama Pref.	43	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama City)	nd
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	tr(6,200)
	46	Hiroshima Bay	nd
amaguchi Pref.	47	Tokuyama Bay	nd
Ü	48	Offshore of Ube	nd
	49	Offshore of Hagi	nd
okushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	tr(9,700)
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
itakyushu City	54	Dokai Bay	37,000
Fukuoka City	55	Hakata Bay	nd
Saga Pref.	56	Imari Bay	nd
Nagasaki Pref.	57	Omura Bay	nd
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
agoshima Pref.	60	Riv. Amori(Kirishima City)	nd
ļ	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port	10,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[23-3]Chlorinated dodecanes/sediment (pg/g-dry)

Monitored year :2017

Detection Frequency (site):19/62(Missing value:0)
Detection Frequency (sample):19/62(Missing value:0)

Detection limit :4,000 Quantification limit :11,000

	stats
Geometric mean	nd
Median	nd
Maximum	44,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
	3	Tomakomai Port	tr(9,200)
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	tr(6,700)
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	nd
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	nd
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	tr(7,500)
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	11,000
	15	Mouth of Riv. Sumida(Minato Ward)	33,000
Yokohama City	16	Yokohama Port	tr(4,200)
Kawasaki City	17	Mouth of Riv. Tama(Kawasaki City)	tr(7,200)
	18	Keihin Canal, Port of Kawasaki	17,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	nd
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	nd
Shizuoka Pref.	25	Shimizu Port	nd
AT LID C	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	nd
Mie Pref.	28	Nagoya Port Yokkaichi Port	tr(9,200)
Mie Prei.			nd
Shiga Pref.	30	Toba Port Lake Biwa(center, offshore of Minamihira)	nd nd
Siliga Fiel.	32	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	tr(8,600)
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	tr(7,900)
Osaka City	37	Mouth of Riv. Yodo(Osaka City)	tr(4,800)
	38	Osaka Port	nd
	39	Outside Osaka Port	nd
Hyogo Pref.	40	Offshore of Himeji	nd
Kobe City	41	Kobe Port(center)	tr(6,600)
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town)	nd
		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	
Wakayama Pref.	43	City)	nd
Okayama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	tr(5,300)
	46	Hiroshima Bay	nd
Yamaguchi Pref.	47	Tokuyama Bay	nd
Č	48	Offshore of Ube	nd
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	14,000
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	44,000
Fukuoka City	55	Hakata Bay	tr(9,700)
Saga Pref.	56	Imari Bay	nd
Nagasaki Pref.	57	Omura Bay	14,000
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
rangeomma r ren			
Okinawa Pref.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[23-4] Chlorinated tridecanes/sediment (pg/g-dry)

Monitored year :2017

Detection Frequency (site):18/62(Missing value:0)
Detection Frequency (sample):18/62(Missing value:0)

Detection limit :5,000 Quantification limit :12,000

	stats
Geometric mean	nd
Median	nd
Maximum	94,000
Minimum	nd

Local communities	No	Monitored sites	Measured value
Hokkaido	1	Onnenai-ohashi Bridge, Riv. Teshio(Bifuka Town)	nd
	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari(Ishikari City)	nd
	3	Tomakomai Port	nd
Iwate Pref.	4	Riv. Toyosawa(Hanamaki City)	nd
Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	tr(10,000)
Sendai City	6	Hirose-ohashi Bridge, Riv. Hirose(Sendai City)	nd
Akita Pref.	7	Lake Hachiro	nd
Yamagata Pref.	8	Mouth of Riv. Mogami(Sakata City)	nd
Fukushima Pref.	9	Onahama Port	23,000
Ibaraki Pref.	10	Tonekamome-ohasi Bridge, Mouth of Riv. Tone(Kamisu City)	nd
Tochigi Pref.	11	Tagawa Kyubun Area Head Works(Utsunomiya City)	nd
Chiba Pref.	12	Coast of Ichihara and Anegasaki	nd
Chiba City	13	Mouth of Riv. Hanami(Chiba City)	nd
Tokyo Met.	14	Mouth of Riv. Arakawa(Koto Ward)	15,000
V-11	15 16	Mouth of Riv. Sumida(Minato Ward) Yokohama Port	65,000 tr(10,000)
Yokohama City	17		· · /
Kawasaki City	18	Mouth of Riv. Tama(Kawasaki City) Keihin Canal, Port of Kawasaki	tr(11,000) 25,000
Niigata Pref.	19	Lower Riv. Shinano(Niigata City)	23,000 nd
Toyama Pref.	20	Hagiura-bashi Bridge, Mouth of Riv. Jintsu(Toyama City)	nd
Ishikawa Pref.	21	Mouth of Riv. Sai(Kanazawa City)	nd
Fukui Pref.	22	Mishima-bashi Bridge, Riv. Shono(Tsuruga City)	nd
Yamanashi Pref.	23	Senshu-bashi Bridge, Riv. Arakawa(Kofu City)	nd
Nagano Pref.	24	Lake Suwa(center)	nd
Shizuoka Pref.	25	Shimizu Port	nd
	26	Riv. Tenryu(Iwata City)	nd
Aichi Pref.	27	Kinuura Port	nd
	28	Nagoya Port	16,000
Mie Pref.	29	Yokkaichi Port	nd
	30	Toba Port	nd
Shiga Pref.	31	Lake Biwa(center, offshore of Minamihira)	nd
	32	Lake Biwa(center, offshore of Karasaki)	nd
Kyoto Pref.	33	Miyazu Port	nd
Kyoto City	34	Miyamae-bashi Bridge,Riv. Katsura(Kyoto City)	nd
Osaka Pref.	35	Mouth of Riv. Yamato(Sakai City)	tr(9,300)
Osaka City	36	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	13,000
	37	Mouth of Riv. Yodo(Osaka City)	tr(7,500)
	38	Osaka Port	tr(7,900)
** 7 0	39	Outside Osaka Port	nd
Hyogo Pref.	40	Offshore of Himeji	nd
Kobe City	41	Kobe Port(center)	nd 1
Nara Pref.	42	Taisho-bashi Bridge, Riv. Yamato(Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa(Wakayama	nd
Wakayama Pref.	43	City)	nd
Okavama Pref.	44	Offshore of Mizushima	nd
Hiroshima Pref.	45	Kure Port	tr(5,900)
- Incommunities	46	Hiroshima Bay	nd
Yamaguchi Pref.	47	Tokuyama Bay	nd
	48	Offshore of Ube	nd
	49	Offshore of Hagi	nd
Tokushima Pref.	50	Mouth of Riv. Yoshino(Tokushima City)	nd
Kagawa Pref.	51	Takamatsu Port	18,000
Ehime Pref.	52	Niihama Port	nd
Kochi Pref.	53	Mouth of Riv. Shimanto(Shimanto City)	nd
Kitakyushu City	54	Dokai Bay	94,000
Fukuoka City	55	Hakata Bay	tr(9,000)
Saga Pref.	56	Imari Bay	nd
Nagasaki Pref.	57	Omura Bay	tr(10,000)
Oita Pref.	58	Mouth of Riv. Oita(Oita City)	nd
Miyazaki Pref.	59	Mouth of Riv. Oyodo(Miyazaki City)	nd
Kagoshima Pref.	60	Riv. Amori(Kirishima City)	nd
01.	61	Gotanda-bashi Bridge, Riv. Gotanda(Ichikikushikino City)	nd
Okinawa Pref.	62	Naha Port y (site) is based on the number of sites, thus means (the number of detected sites/the number of	16,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[1] Total PCBs /wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):24/24(Missing value:0)
Detection Frequency (sample):24/24(Missing value:0)

Detection limit :*23 Quantification limit :*68

	stats
Geometric mean	9,700
Median	7,900
Maximum	380,000
Minimum	500

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	2,500	10,000	39,000
Median	1,600	8,300	190,000
Maximum	19,000	160,000	380,000
Minimum	500	860	4,000

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	1,600
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	19,000
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	500
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	2,900
		2	Offshore of Kushiro	Chum salmon	950
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	4,700
	Iwate Pref.	4	Yamada Bay	Greenling	5,300
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	7,400
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	2,400
	Tokyo Met.	7	Tokyo Bay	Sea bass	100,000
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	32,000
	Nagoya City	9	Nagoya Port	Striped mullet	26,000
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	16,000
	Osaka Pref.	11	Osaka Bay	Sea bass	140,000
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	160,000
	Tottori Pref.	13	Nakaumi	Sea bass	9,800
	Hiroshima City	14	Hiroshima Bay	Sea bass	37,000
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	84,000
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	860
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	8,300
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	3,000
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	890
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	380,000
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	4,000
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	2,500,000
		value		Egg of Great Cormorant (Egg white)	4,800
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	14,800,000
		value		Egg of Great Cormorant (Egg white)	37,000

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[1-1] Monochlorobiphenyls/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :21/24(Missing value :0)
Detection Frequency (sample) :21/24(Missing value :0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	tr(2.1)
Median	tr(1)
Maximum	43
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	17/19	1/2
Detection Frequency (sample)	3/3	17/19	1/2
Geometric mean	tr(2.4)	tr(2.3)	nd
Median	tr(1)	tr(1)	nd
Maximum	13	43	tr(1)
Minimum	tr(1)	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(1)
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	13
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(1)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(1)
		2	Offshore of Kushiro	Chum salmon	tr(1)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(1)
	Iwate Pref.	4	Yamada Bay	Greenling	tr(1)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(1)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	4
	Tokyo Met.	7	Tokyo Bay	Sea bass	10
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	4
	Nagoya City	9	Nagoya Port	Striped mullet	12
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	tr(2)
	Osaka Pref.	11	Osaka Bay	Sea bass	43
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	10
	Tottori Pref.	13	Nakaumi	Sea bass	tr(1)
	Hiroshima City	14	Hiroshima Bay	Sea bass	3
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	7
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(1)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(1)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	tr(1)
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	4
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	34
		value		Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-2] Dichlorobiphenyls/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :22/24(Missing value :0)
Detection Frequency (sample) :22/24(Missing value :0)

Detection limit :4 Quantification limit :12

	stats
Geometric mean	29
Median	19
Maximum	1,000
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	17/19	2/2
Detection Frequency (sample)	3/3	17/19	2/2
Geometric mean	37	32	tr(8.5)
Median	31	19	tr(8.5)
Maximum	160	1,000	tr(9)
Minimum	tr(10)	nd	tr(8)

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	31
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	160
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(10)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	17
		2	Offshore of Kushiro	Chum salmon	19
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(7)
	Iwate Pref.	4	Yamada Bay	Greenling	18
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	19
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	51
	Tokyo Met.	7	Tokyo Bay	Sea bass	360
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	150
	Nagoya City	9	Nagoya Port	Striped mullet	300
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	tr(11)
	Osaka Pref.	11	Osaka Bay	Sea bass	1,000
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	150
	Tottori Pref.	13	Nakaumi	Sea bass	18
	Hiroshima City	14	Hiroshima Bay	Sea bass	67
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	120
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	13
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(4)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	tr(8)
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	tr(9)
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	46
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	200
		value		Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-3] Trichlorobiphenyls/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :5 Quantification limit :15

	stats
Geometric mean	290
Median	200
Maximum	17,000
Minimum	tr(7)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	150	310	430
Median	94	220	1,800
Maximum	1,500	17,000	3,500
Minimum	24	tr(7)	54

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	94
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	1,500
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	24
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	110
		2	Offshore of Kushiro	Chum salmon	70
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	74
	Iwate Pref.	4	Yamada Bay	Greenling	170
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	240
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	270
	Tokyo Met.	7	Tokyo Bay	Sea bass	7,800
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	3,600
	Nagoya City	9	Nagoya Port	Striped mullet	4,100
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	220
	Osaka Pref.	11	Osaka Bay	Sea bass	17,000
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	2,000
	Tottori Pref.	13	Nakaumi	Sea bass	180
	Hiroshima City	14	Hiroshima Bay	Sea bass	700
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	920
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(12)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	120
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	40
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	tr(7)
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	3,500
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	54
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	63,000
		value		Egg of Great Cormorant (Egg white)	220
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	620,000
		value		Egg of Great Cormorant (Egg white)	3,800

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-4] Tetrachlorobiphenyls/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)

Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :3

Quantification limit :9

	stats
Geometric mean	1,200
Median	770
Maximum	41,000
Minimum	39

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	430	1,300	2,600
Median	210	940	14,000
Maximum	5,500	41,000	27,000
Minimum	71	39	250

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	210
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	5,500
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	71
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	350
		2	Offshore of Kushiro	Chum salmon	210
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	360
	Iwate Pref.	4	Yamada Bay	Greenling	550
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	940
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	560
	Tokyo Met.	7	Tokyo Bay	Sea bass	30,000
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	11,000
	Nagoya City	9	Nagoya Port	Striped mullet	10,000
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	2,200
	Osaka Pref.	11	Osaka Bay	Sea bass	41,000
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	15,000
	Tottori Pref.	13	Nakaumi	Sea bass	960
	Hiroshima City	14	Hiroshima Bay	Sea bass	3,700
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	4,300
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	64
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	590
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	240
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	39
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	27,000
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	250
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	200,000
		value		Egg of Great Cormorant (Egg white)	780
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,800,000
		value	is board on the growth on of sites three groups (the growth on o	Egg of Great Cormorant (Egg white)	8,300

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-4-1] 3,3',4,4'-Tetrachlorobiphenyl (#77)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :23/24(Missing value :0) Detection Frequency (sample) :23/24(Missing value :0)

Detection limit :0.7 Quantification limit :1.9

	stats
Geometric mean	8.5
Median	5.7
Maximum	160
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/19	2/2
Detection Frequency (sample)	3/3	18/19	2/2
Geometric mean	8.4	8.2	13
Median	4.2	5.8	48
Maximum	40	160	95
Minimum	3.5	nd	tr(1.7)

]	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	4.2
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	40
-	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	3.5
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(1.0)
		2	Offshore of Kushiro	Chum salmon	tr(0.9)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	3.6
-	Iwate Pref.	4	Yamada Bay	Greenling	10
•	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	5.8
•	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	5.5
•	Tokyo Met.	7	Tokyo Bay	Sea bass	94
•	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	41
-	Nagoya City	9	Nagoya Port	Striped mullet	43
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	35
-	Osaka Pref.	11	Osaka Bay	Sea bass	160
•	Hyogo Pref.	12	Offshore of Himeji	Sea bass	38
-	Tottori Pref.	13	Nakaumi	Sea bass	5.1
-	Hiroshima City	14	Hiroshima Bay	Sea bass	14
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	18
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(1.0)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	3.3
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	4.3
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	95
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	tr(1.7)
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	130
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	390
		value		Egg of Great Cormorant (Egg white)	tr(1.6)

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 3) tr : detection limit value and more, less than Quantification limit value.

⁽Note 2) Data treated as detected means detection limit value and more.

[1-4-2] 3,4,4',5-Tetrachlorobiphenyl (#81)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):9/24(Missing value:0)
Detection Frequency (sample):9/24(Missing value:0)

Detection limit :0.6 Quantification limit :1.6

	stats
Geometric mean	tr(0.76)
Median	nd
Maximum	62
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	7/19	1/2
Detection Frequency (sample)	1/3	7/19	1/2
Geometric mean	nd	tr(0.67)	4.3
Median	nd	nd	31
Maximum	tr(1.5)	6.6	62
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	tr(1.5)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	nd
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	2.9
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(1.3)
	Nagoya City	9	Nagoya Port	Striped mullet	3.2
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	2.6
	Osaka Pref.	11	Osaka Bay	Sea bass	6.6
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	1.6
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	2.7
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	62
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	460
		value		Egg of Great Cormorant (Egg white)	tr(0.8)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,300
		value		Egg of Great Cormorant (Egg white)	1.7

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-5] Pentachlorobiphenyls/wildlife (pg/g-wet)

Monitored year :2017 Detection Frequency (site) :24/24(Missing value :0) Detection Frequency (sample) :24/24(Missing value :0) Detection limit :3 Quantification limit :9

	stats
Geometric mean	2,600
Median	1,800
Maximum	110,000
Minimum	110

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	700	2,700	10,000
Median	410	2,000	55,000
Maximum	6,100	40,000	110,000
Minimum	140	110	990

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	410
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	6,100
•	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	140
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	920
		2	Offshore of Kushiro	Chum salmon	320
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	1,200
	Iwate Pref.	4	Yamada Bay	Greenling	1,400
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	2,000
•	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	770
	Tokyo Met.	7	Tokyo Bay	Sea bass	35,000
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	10,000
	Nagoya City	9	Nagoya Port	Striped mullet	7,200
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	6,300
	Osaka Pref.	11	Osaka Bay	Sea bass	40,000
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	40,000
	Tottori Pref.	13	Nakaumi	Sea bass	3,300
	Hiroshima City	14	Hiroshima Bay	Sea bass	8,800
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	10,000
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	230
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	1,500
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	820
•	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	110
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	110,000
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	990
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	660,000
		value		Egg of Great Cormorant (Egg white)	1,600
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,700,000
		value		Egg of Great Cormorant (Egg white)	11,000

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-5-1] 2,3,3',4,4'-Pentachlorobiphenyl (#105)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :0.8 Quantification limit :2.1

	stats
Geometric mean	140
Median	110
Maximum	15,000
Minimum	7.4

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	36	130	1,300
Median	20	110	7,600
Maximum	320	1,500	15,000
Minimum	7.4	9	110

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	20
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	320
•	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	7.4
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	65
		2	Offshore of Kushiro	Chum salmon	12
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	98
	Iwate Pref.	4	Yamada Bay	Greenling	110
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	150
•	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	29
	Tokyo Met.	7	Tokyo Bay	Sea bass	1,300
•	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	380
	Nagoya City	9	Nagoya Port	Striped mullet	410
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	360
	Osaka Pref.	11	Osaka Bay	Sea bass	1,500
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	1,200
	Tottori Pref.	13	Nakaumi	Sea bass	110
	Hiroshima City	14	Hiroshima Bay	Sea bass	310
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	260
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	17
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	58
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	64
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	9.0
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	15,000
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	110
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	99,000
		value		Egg of Great Cormorant (Egg white)	250
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	400,000
		value		Egg of Great Cormorant (Egg white)	1,200

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-5-2] 2,3,4,4',5-Pentachlorobiphenyl (#114)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :23/24(Missing value :0) Detection Frequency (sample) :23/24(Missing value :0)

Detection limit :0.9 Quantification limit :2.2

	stats
Geometric mean	14
Median	14
Maximum	1,600
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/19	2/2
Detection Frequency (sample)	3/3	18/19	2/2
Geometric mean	3.7	13	140
Median	2.6	15	810
Maximum	18	150	1,600
Minimum	tr(1.1)	nd	13

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	2.6
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	18
•	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(1.1)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	6.7
		2	Offshore of Kushiro	Chum salmon	tr(1.3)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	11
	Iwate Pref.	4	Yamada Bay	Greenling	12
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	18
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	3.8
	Tokyo Met.	7	Tokyo Bay	Sea bass	110
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	32
	Nagoya City	9	Nagoya Port	Striped mullet	34
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	35
	Osaka Pref.	11	Osaka Bay	Sea bass	150
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	120
	Tottori Pref.	13	Nakaumi	Sea bass	15
	Hiroshima City	14	Hiroshima Bay	Sea bass	28
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	28
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(2.0)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	6.0
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	7.2
•	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	1,600
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	13
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	9,800
		value		Egg of Great Cormorant (Egg white)	18
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	45,000
		value		Egg of Great Cormorant (Egg white)	93

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-5-3] 2,3',4,4'-5-Pentachlorobiphenyl (#118)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :0.9 Quantification limit :2.7

	stats
Geometric mean	470
Median	440
Maximum	58,000
Minimum	26

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	120	460	4,800
Median	64	480	29,000
Maximum	950	6,700	58,000
Minimum	27	26	390

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	64
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	950
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	27
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	220
		2	Offshore of Kushiro	Chum salmon	41
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	310
	Iwate Pref.	4	Yamada Bay	Greenling	290
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	480
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	95
	Tokyo Met.	7	Tokyo Bay	Sea bass	5,300
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	1,500
	Nagoya City	9	Nagoya Port	Striped mullet	1,100
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	940
	Osaka Pref.	11	Osaka Bay	Sea bass	5,700
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	6,700
	Tottori Pref.	13	Nakaumi	Sea bass	530
	Hiroshima City	14	Hiroshima Bay	Sea bass	1,300
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	1,300
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	44
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	220
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	170
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	26
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	58,000
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	390
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	330,000
		value		Egg of Great Cormorant (Egg white)	670
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,600,000
	D. C. C.	value		Egg of Great Cormorant (Egg white)	3,700

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-5-4] 2',3,4,4',5-Pentachlorobiphenyl (#123)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):23/24(Missing value:0)
Detection Frequency (sample):23/24(Missing value:0)

Detection limit :0.6 Quantification limit :1.5

	stats
Geometric mean	9
Median	7.6
Maximum	940
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/19	2/2
Detection Frequency (sample)	3/3	18/19	2/2
Geometric mean	2.7	8.6	82
Median	1.7	8	470
Maximum	16	100	940
Minimum	tr(0.7)	nd	7.1

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	1.7
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	16
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(0.7)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	3.1
		2	Offshore of Kushiro	Chum salmon	tr(0.9)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	5.1
	Iwate Pref.	4	Yamada Bay	Greenling	5.7
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	8.6
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	2.4
	Tokyo Met.	7	Tokyo Bay	Sea bass	81
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	21
	Nagoya City	9	Nagoya Port	Striped mullet	26
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	26
	Osaka Pref.	11	Osaka Bay	Sea bass	100
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	100
	Tottori Pref.	13	Nakaumi	Sea bass	8.0
	Hiroshima City	14	Hiroshima Bay	Sea bass	26
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	24
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(1.1)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	4.9
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	4.0
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	940
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	7.1
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	5,900
		value		Egg of Great Cormorant (Egg white)	10
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	27,000
	D. C. C.	value		Egg of Great Cormorant (Egg white)	49

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-5-5] 3,3',4,4',5-Pentachlorobiphenyl (#126)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):19/24(Missing value:0)
Detection Frequency (sample):19/24(Missing value:0)

Detection limit :0.8 Quantification limit :2.0

	stats
Geometric mean	2.9
Median	2.8
Maximum	250
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	16/19	2/2
Detection Frequency (sample)	1/3	16/19	2/2
Geometric mean	tr(0.82)	2.8	26
Median	nd	2.8	130
Maximum	3.5	21	250
Minimum	nd	nd	2.7

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	3.5
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(1.8)
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	3.6
	Iwate Pref.	4	Yamada Bay	Greenling	2.8
•	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	2.1
•	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	tr(1.4)
•	Tokyo Met.	7	Tokyo Bay	Sea bass	9.9
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	3.1
	Nagoya City	9	Nagoya Port	Striped mullet	3.0
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	9.3
	Osaka Pref.	11	Osaka Bay	Sea bass	14
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	21
	Tottori Pref.	13	Nakaumi	Sea bass	tr(1.5)
	Hiroshima City	14	Hiroshima Bay	Sea bass	6.8
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	11
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(1.6)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(1.5)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	250
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	2.7
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	1,600
		value		Egg of Great Cormorant (Egg white)	tr(1.2)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,800
		value		Egg of Great Cormorant (Egg white)	3.4

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-6] Hexachlorobiphenyls/wildlife (pg/g-wet)

Monitored year :2017 Detection Frequency (site) :24/24(Missing value :0) Detection Frequency (sample) :24/24(Missing value :0) Detection limit :3 Quantification limit :9

	stats
Geometric mean	3,200
Median	3,200
Maximum	180,000
Minimum	200

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	830	3,300	18,000
Median	620	3,400	91,000
Maximum	4,600	70,000	180,000
Minimum	200	250	1,900

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	620
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	4,600
	Ishikawa Pref.		Coast of Noto Peninsula	Blue mussel	200
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	1,100
		2	Offshore of Kushiro	Chum salmon	250
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	1,900
	Iwate Pref.	4	Yamada Bay	Greenling	2,000
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	2,900
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	570
	Tokyo Met.	7	Tokyo Bay	Sea bass	22,000
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	5,800
	Nagoya City	9	Nagoya Port	Striped mullet	3,700
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	6,000
	Osaka Pref.	11	Osaka Bay	Sea bass	29,000
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	70,000
	Tottori Pref.	13	Nakaumi	Sea bass	4,100
	Hiroshima City	14	Hiroshima Bay	Sea bass	15,000
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	32,000
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	360
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	3,400
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	1,200
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	270
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	180,000
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	1,900
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	1,200,000
		value		Egg of Great Cormorant (Egg white)	1,800
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	5,800,000
		value		Egg of Great Cormorant (Egg white)	11,000

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-6-1] 2,3,3',4,4',5-Hexachlorobiphenyl (#156)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :0.9 Quantification limit :2.3

	stats
Geometric mean	52
Median	52
Maximum	6,700
Minimum	2.5

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	11	51	600
Median	6.8	49	3,400
Maximum	54	750	6,700
Minimum	3.4	2.5	54

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	6.8
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	54
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	3.4
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	21
		2	Offshore of Kushiro	Chum salmon	2.5
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	43
	Iwate Pref.	4	Yamada Bay	Greenling	42
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	63
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	6.1
	Tokyo Met.	7	Tokyo Bay	Sea bass	360
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	96
	Nagoya City	9	Nagoya Port	Striped mullet	90
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	120
	Osaka Pref.	11	Osaka Bay	Sea bass	420
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	750
	Tottori Pref.	13	Nakaumi	Sea bass	49
	Hiroshima City	14	Hiroshima Bay	Sea bass	140
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	270
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	8.5
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	35
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	30
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	4.2
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	6,700
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	54
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	54,000
		value		Egg of Great Cormorant (Egg white)	56
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	210,000
		value		Egg of Great Cormorant (Egg white)	230

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-6-2] 2,3,3',4,4',5'-Hexachlorobiphenyl (#157)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	14
Median	14
Maximum	1,500
Minimum	tr(1)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	3.1	13	150
Median	tr(2)	12	760
Maximum	15	180	1,500
Minimum	tr(1)	tr(1)	15

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(2)
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	15
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(1)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	8
		2	Offshore of Kushiro	Chum salmon	tr(1)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	12
	Iwate Pref.	4	Yamada Bay	Greenling	11
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	20
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	tr(2)
	Tokyo Met.	7	Tokyo Bay	Sea bass	85
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	24
	Nagoya City	9	Nagoya Port	Striped mullet	22
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	31
	Osaka Pref.	11	Osaka Bay	Sea bass	93
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	180
	Tottori Pref.	13	Nakaumi	Sea bass	12
	Hiroshima City	14	Hiroshima Bay	Sea bass	37
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	46
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(2)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	9
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	8
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	tr(1)
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	1,500
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	15
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	12,000
		value		Egg of Great Cormorant (Egg white)	11
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	41,000
		value		Egg of Great Cormorant (Egg white)	44

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-6-3] 2,3',4,4',5,5'-Hexachlorobiphenyl (#167)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):24/24(Missing value:0)
Detection Frequency (sample):24/24(Missing value:0)

Detection limit :0.8 Quantification limit :2.1

	stats
Geometric mean	30
Median	31
Maximum	3,200
Minimum	tr(1.8)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	7.9	30	300
Median	6	33	1,600
Maximum	39	410	3,200
Minimum	2.1	tr(1.8)	28

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	6.0
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	39
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	2.1
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	10
		2	Offshore of Kushiro	Chum salmon	tr(1.8)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	21
	Iwate Pref.	4	Yamada Bay	Greenling	23
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	33
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	5.5
	Tokyo Met.	7	Tokyo Bay	Sea bass	210
•	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	55
	Nagoya City	9	Nagoya Port	Striped mullet	43
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	64
	Osaka Pref.	11	Osaka Bay	Sea bass	230
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	410
	Tottori Pref.	13	Nakaumi	Sea bass	36
	Hiroshima City	14	Hiroshima Bay	Sea bass	93
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	180
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	3.7
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	20
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	14
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	2.9
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	3,200
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	28
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	26,000
		value		Egg of Great Cormorant (Egg white)	22
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	100,000
		value		Egg of Great Cormorant (Egg white)	90

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-6-4] 3,3',4,4',5,5'-Hexachlorobiphenyl (#169)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :11/24(Missing value :0) Detection Frequency (sample) :11/24(Missing value :0)

Detection limit :0.7 Quantification limit :1.9

	stats
Geometric mean	nd
Median	nd
Maximum	31
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	8/19	2/2
Detection Frequency (sample)	1/3	8/19	2/2
Geometric mean	nd	nd	5.6
Median	nd	nd	16
Maximum	tr(0.9)	3.6	31
Minimum	nd	nd	tr(1)

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	tr(0.9)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(0.8)
	Iwate Pref.	4	Yamada Bay	Greenling	tr(0.8)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	tr(1.0)
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
•	Nagoya City	9	Nagoya Port	Striped mullet	nd
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	tr(1.3)
	Osaka Pref.	11	Osaka Bay	Sea bass	tr(0.8)
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	3.6
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	tr(1.3)
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	tr(1.2)
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	31
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	tr(1.0)
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	290
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	420
		value		Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-7] Heptachlorobiphenyls/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	1,200
Median	1,000
Maximum	46,000
Minimum	50

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	240	1,300	5,300
Median	240	1,100	23,000
Maximum	1,100	31,000	46,000
Minimum	50	71	600

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	240
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	1,100
•	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	50
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	360
		2	Offshore of Kushiro	Chum salmon	71
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	930
	Iwate Pref.	4	Yamada Bay	Greenling	970
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	1,100
•	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	140
	Tokyo Met.	7	Tokyo Bay	Sea bass	5,800
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	1,400
	Nagoya City	9	Nagoya Port	Striped mullet	990
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	1,400
	Osaka Pref.	11	Osaka Bay	Sea bass	9,300
•	Hyogo Pref.	12	Offshore of Himeji	Sea bass	31,000
	Tottori Pref.	13	Nakaumi	Sea bass	1,100
•	Hiroshima City	14	Hiroshima Bay	Sea bass	7,300
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	28,000
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	160
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	2,200
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	560
•	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	290
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	46,000
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	600
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	340,000
		value		Egg of Great Cormorant (Egg white)	330
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	2,400,000
		value		Egg of Great Cormorant (Egg white)	2,800

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-7-1] 2,2',3,3',4,4',5-Heptachlorobiphenyl (#170)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :1 Quantification limit :4

	stats
Geometric mean	90
Median	97
Maximum	8,400
Minimum	tr(1)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	5.1	110	810
Median	5	100	4,200
Maximum	26	2,400	8,400
Minimum	tr(1)	5	78

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	5
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	26
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(1)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	47
		2	Offshore of Kushiro	Chum salmon	5
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	93
	Iwate Pref.	4	Yamada Bay	Greenling	100
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	100
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	10
	Tokyo Met.	7	Tokyo Bay	Sea bass	510
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	120
	Nagoya City	9	Nagoya Port	Striped mullet	110
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	160
	Osaka Pref.	11	Osaka Bay	Sea bass	800
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	2,100
	Tottori Pref.	13	Nakaumi	Sea bass	83
	Hiroshima City	14	Hiroshima Bay	Sea bass	470
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	2,400
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	16
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	130
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	52
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	21
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	8,400
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	78
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	56,000
		value		Egg of Great Cormorant (Egg white)	75
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	320,000
		value		Egg of Great Cormorant (Egg white)	380

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-7-2] 2,2',3,4,4',5,5'-Heptachlorobiphenyl (#180)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	280
Median	270
Maximum	17,000
Minimum	6

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	28	330	1,800
Median	24	300	8,600
Maximum	150	7,800	17,000
Minimum	6	14	190

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	24
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	150
•	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	6
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	120
		2	Offshore of Kushiro	Chum salmon	14
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	300
	Iwate Pref.	4	Yamada Bay	Greenling	230
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	320
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	30
	Tokyo Met.	7	Tokyo Bay	Sea bass	1,500
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	340
	Nagoya City	9	Nagoya Port	Striped mullet	290
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	320
	Osaka Pref.	11	Osaka Bay	Sea bass	2,400
•	Hyogo Pref.	12	Offshore of Himeji	Sea bass	7,600
	Tottori Pref.	13	Nakaumi	Sea bass	240
•	Hiroshima City	14	Hiroshima Bay	Sea bass	1,600
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	7,800
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	45
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	450
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	150
•	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	91
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	17,000
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	190
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	130,000
		value		Egg of Great Cormorant (Egg white)	99
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	890,000
		value		Egg of Great Cormorant (Egg white)	750

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-7-3] 2,3,3',4,4',5,5'-Heptachlorobiphenyl (#189)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :20/24(Missing value :0)
Detection Frequency (sample) :20/24(Missing value :0)

Detection limit :0.9 Quantification limit :2.3

	stats
Geometric mean	5.7
Median	5.3
Maximum	480
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	17/19	2/2
Detection Frequency (sample)	1/3	17/19	2/2
Geometric mean	tr(0.96)	6	55
Median	nd	5.6	240
Maximum	4.4	120	480
Minimum	nd	nd	6.4

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	4.4
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	3.0
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	5.6
	Iwate Pref.	4	Yamada Bay	Greenling	4.9
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	6.5
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	24
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	5.6
	Nagoya City	9	Nagoya Port	Striped mullet	5.0
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	10
	Osaka Pref.	11	Osaka Bay	Sea bass	33
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	120
	Tottori Pref.	13	Nakaumi	Sea bass	4.7
	Hiroshima City	14	Hiroshima Bay	Sea bass	25
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	80
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(0.9)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	8.5
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	3.0
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	tr(1.0)
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	480
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	6.4
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	4,200
		value		Egg of Great Cormorant (Egg white)	tr(2.0)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	17,000
		value		Egg of Great Cormorant (Egg white)	8.2

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-8] Octachlorobiphenyls/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	180
Median	170
Maximum	8,800
Minimum	3

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	13	220	1,100
Median	14	170	4,500
Maximum	53	7,800	8,800
Minimum	3	7	150

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	14
Bibalves	Bibalves Yokohama City		Yokohama Port	Blue mussel	53
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	3
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	74
		2	Offshore of Kushiro	Chum salmon	7
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	160
	Iwate Pref.	4	Yamada Bay	Greenling	200
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	190
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	16
	Tokyo Met.	7	Tokyo Bay	Sea bass	770
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	170
	Nagoya City	9	Nagoya Port	Striped mullet	170
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	200
	Osaka Pref.	11	Osaka Bay	Sea bass	1,400
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	5,000
	Tottori Pref.	13	Nakaumi	Sea bass	170
	Hiroshima City	14	Hiroshima Bay	Sea bass	1,200
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	7,800
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	29
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	470
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	99
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	140
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	8,800
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	150
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	59,000
		value		Egg of Great Cormorant (Egg white)	38
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	480,000
		value	is board on the growth on of sites three groups (the growth on o	Egg of Great Cormorant (Egg white)	320

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-9] Nonachlorobiphenyls/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):22/24(Missing value:0)
Detection Frequency (sample):22/24(Missing value:0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	16
Median	18
Maximum	1,100
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	19/19	2/2
Detection Frequency (sample)	1/3	19/19	2/2
Geometric mean	nd	21	180
Median	nd	20	560
Maximum	tr(1)	480	1,100
Minimum	nd	tr(1)	28

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	tr(1)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	9
		2	Offshore of Kushiro	Chum salmon	tr(1)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	15
	Iwate Pref.	4	Yamada Bay	Greenling	16
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	21
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	tr(2)
	Tokyo Met.	7	Tokyo Bay	Sea bass	72
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	16
	Nagoya City	9	Nagoya Port	Striped mullet	20
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	32
	Osaka Pref.	11	Osaka Bay	Sea bass	79
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	310
	Tottori Pref.	13	Nakaumi	Sea bass	11
	Hiroshima City	14	Hiroshima Bay	Sea bass	77
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	480
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	3
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	34
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	7
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	27
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	1,100
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	28
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	8,700
		value		Egg of Great Cormorant (Egg white)	3
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	36,000
		value		Egg of Great Cormorant (Egg white)	15

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

[1-10] Decachlorobiphenyl/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :21/24(Missing value :0)
Detection Frequency (sample) :21/24(Missing value :0)

Detection limit :0.8 Quantification limit :2.1

	stats
Geometric mean	6.9
Median	7.6
Maximum	340
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	18/19	2/2
Detection Frequency (sample)	1/3	18/19	2/2
Geometric mean	nd	7.3	96
Median	nd	8	180
Maximum	2.9	48	340
Minimum	nd	nd	27

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	2.9
	Ishikawa Pref.		Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	5.8
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	7.1
	Iwate Pref.	4	Yamada Bay	Greenling	5.0
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	14
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	tr(1.5)
	Tokyo Met.	7	Tokyo Bay	Sea bass	33
•	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	8.7
	Nagoya City	9	Nagoya Port	Striped mullet	8.0
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	13
	Osaka Pref.	11	Osaka Bay	Sea bass	16
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	48
	Tottori Pref.	13	Nakaumi	Sea bass	4.7
	Hiroshima City	14	Hiroshima Bay	Sea bass	20
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	38
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(1.8)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	12
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	2.2
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	4.1
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	340
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	27
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	4,900
		value		Egg of Great Cormorant (Egg white)	tr(1.1)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	8,700
		value		Egg of Great Cormorant (Egg white)	2.2

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[2] Hexachlorobenzene/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :1.3 Quantification limit :3.9

	stats
Geometric mean	180
Median	170
Maximum	4,900
Minimum	26

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	41	190	1,100
Median	26	180	2,600
Maximum	99	1,100	4,900
Minimum	26	33	230

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	99
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	26
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	26
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	590
		2	Offshore of Kushiro	Chum salmon	560
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	360
	Iwate Pref.	4	Yamada Bay	Greenling	680
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	160
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	1,100
	Tokyo Met.	7	Tokyo Bay	Sea bass	300
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	200
	Nagoya City	9	Nagoya Port	Striped mullet	110
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	760
	Osaka Pref.	11	Osaka Bay	Sea bass	100
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	180
	Tottori Pref.	13	Nakaumi	Sea bass	33
	Hiroshima City	14	Hiroshima Bay	Sea bass	130
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	430
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	44
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	120
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	39
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	33
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	4,900
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	230
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	35,000
		value		Egg of Great Cormorant (Egg white)	93
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	24,000
		value		Egg of Great Cormorant (Egg white)	63

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

stats

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[11] HCHs (Hexachlorohexanes)/wildlife (pg/g-wet)

Monitored year :2017 Detection Frequency (site) :24/24(Missing value :0) Detection Frequency (sample) :24/24(Missing value :0)

Geometric mean 100 Median 140 Detection limit :*3.9 4,500 Maximum Quantification limit:*11 Minimum tr(4)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	61	84	1,200
Median	67	150	2,400
Maximum	110	400	4,500
Minimum	31	tr(4)	310

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	67
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	31
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	110
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	280
		2	Offshore of Kushiro	Chum salmon	180
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	130
	Iwate Pref.	4	Yamada Bay	Greenling	280
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	59
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	280
	Tokyo Met.	7	Tokyo Bay	Sea bass	160
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	50
	Nagoya City	9	Nagoya Port	Striped mullet	290
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	350
	Osaka Pref.	11	Osaka Bay	Sea bass	400
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	150
	Tottori Pref.	13	Nakaumi	Sea bass	44
	Hiroshima City	14	Hiroshima Bay	Sea bass	51
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	220
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(6)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	25
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(8)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	tr(4)
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	4,500
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	310
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	9,000
		value		Egg of Great Cormorant (Egg white)	230
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	18,000
		value		Egg of Great Cormorant (Egg white)	520

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr : detection limit value and more, less than Quantification limit value.

⁽Note 4) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[11-1] \alpha-HCH• wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):23/24(Missing value:0)
Detection Frequency (sample):23/24(Missing value:0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	22
Median	26
Maximum	930
Minimum	nd

	Bibalves		Birds
Detection Frequency (site)	3/3	18/19	2/2
Detection Frequency (sample)	3/3	18/19	2/2
Geometric mean	15	20	81
Median	16	29	470
Maximum	32	130	930
Minimum	6	nd	7

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	16
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	6
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	32
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	120
		2	Offshore of Kushiro	Chum salmon	75
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	29
	Iwate Pref.	4	Yamada Bay	Greenling	80
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	20
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	72
	Tokyo Met.	7	Tokyo Bay	Sea bass	29
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	9
	Nagoya City	9	Nagoya Port	Striped mullet	130
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	38
	Osaka Pref.	11	Osaka Bay	Sea bass	130
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	23
	Tottori Pref.	13	Nakaumi	Sea bass	15
	Hiroshima City	14	Hiroshima Bay	Sea bass	13
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	59
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(2)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	4
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(1)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	930
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	7
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	270
		value		Egg of Great Cormorant (Egg white)	5
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	560
		value		Egg of Great Cormorant (Egg white)	7

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[11-2] β-HCH• wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	66
Median	84
Maximum	3,500
Minimum	4

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	39	54	1,000
Median	47	86	1,900
Maximum	60	290	3,500
Minimum	21	4	300

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	47
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	21
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	60
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	130
		2	Offshore of Kushiro	Chum salmon	81
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	86
	Iwate Pref.	4	Yamada Bay	Greenling	180
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	31
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	180
	Tokyo Met.	7	Tokyo Bay	Sea bass	110
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	35
	Nagoya City	9	Nagoya Port	Striped mullet	130
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	290
	Osaka Pref.	11	Osaka Bay	Sea bass	220
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	110
	Tottori Pref.	13	Nakaumi	Sea bass	24
	Hiroshima City	14	Hiroshima Bay	Sea bass	34
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	140
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	4
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	20
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	7
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	4
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	3,500
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	300
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	8,200
		value		Egg of Great Cormorant (Egg white)	220
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	17,000
		value		Egg of Great Cormorant (Egg white)	510

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[11-3] γ -HCH(synonym:Lindane)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):21/24(Missing value:0)
Detection Frequency (sample):21/24(Missing value:0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	5.5
Median	7.5
Maximum	30
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	16/19	2/2
Detection Frequency (sample)	3/3	16/19	2/2
Geometric mean	4	5.9	4.5
Median	3	9	11
Maximum	11	30	20
Minimum	tr(2)	nd	tr(1)

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	3
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	tr(2)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	11
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	30
		2	Offshore of Kushiro	Chum salmon	21
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	12
	Iwate Pref.	4	Yamada Bay	Greenling	22
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	6
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	19
	Tokyo Met.	7	Tokyo Bay	Sea bass	14
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	4
	Nagoya City	9	Nagoya Port	Striped mullet	19
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	9
	Osaka Pref.	11	Osaka Bay	Sea bass	30
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	6
	Tottori Pref.	13	Nakaumi	Sea bass	3
	Hiroshima City	14	Hiroshima Bay	Sea bass	3
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	13
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(1)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	20
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	tr(1)
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	510
		value		Egg of Great Cormorant (Egg white)	6
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	140
		value		Egg of Great Cormorant (Egg white)	tr(1)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[11-4] δ -HCH• wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):19/24(Missing value:0)
Detection Frequency (sample):19/24(Missing value:0)

Detection limit :0.9 Quantification limit :2.3

	stats
Geometric mean	tr(2.1)
Median	tr(2.2)
Maximum	23
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	15/19	1/2
Detection Frequency (sample)	3/3	15/19	1/2
Geometric mean	tr(1.7)	2.4	nd
Median	tr(1.6)	2.4	nd
Maximum	3	23	tr(1)
Minimum	tr(1)	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(1.0)
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	tr(1.6)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	3.0
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	2.4
		2	Offshore of Kushiro	Chum salmon	tr(2.1)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(1.4)
	Iwate Pref.	4	Yamada Bay	Greenling	2.8
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(2.2)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	4.2
	Tokyo Met.	7	Tokyo Bay	Sea bass	5.3
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(1.7)
	Nagoya City	9	Nagoya Port	Striped mullet	15
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	8.5
	Osaka Pref.	11	Osaka Bay	Sea bass	23
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	7.0
	Tottori Pref.	13	Nakaumi	Sea bass	2.4
	Hiroshima City	14	Hiroshima Bay	Sea bass	tr(1.0)
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	5.1
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	tr(1.0)
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	12
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	30
		value		Egg of Great Cormorant (Egg white)	tr(1.7)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14] Polybromodiphenyl ethers(Br4~Br10)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):13/24(Missing value:0)
Detection Frequency (sample):13/24(Missing value:0)

Detection limit :*134 Quantification limit :*347

	stats
Geometric mean	tr(170)
Median	240
Maximum	3,300
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	11/19	1/2
Detection Frequency (sample)	2/3	11/19	1/2
Geometric mean	tr(150)	tr(160)	360
Median	260	220	1,700
Maximum	tr(300)	2,600	3,300
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	tr(300)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(260)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(220)
	Iwate Pref.	4	Yamada Bay	Greenling	tr(140)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	660
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(260)
	Nagoya City	9	Nagoya Port	Striped mullet	tr(300)
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	640
	Osaka Pref.	11	Osaka Bay	Sea bass	540
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	580
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	620
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	2,600
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	350
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	3,300
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	96,000
		value		Egg of Great Cormorant (Egg white)	tr(230)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	43,000
		value		Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : detection limit value and more, less than Quantification limit value. (Note 4) nd : Not detected

(Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[14-1] Tetrabromodiphenyl ethers/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :6 Quantification limit :16

	stats
Geometric mean	78
Median	72
Maximum	660
Minimum	tr(7)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	47	80	130
Median	23	73	340
Maximum	200	360	660
Minimum	23	tr(7)	26

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	23
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	200
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	23
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	25
		2	Offshore of Kushiro	Chum salmon	tr(7)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	110
	Iwate Pref.	4	Yamada Bay	Greenling	71
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	36
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	46
	Tokyo Met.	7	Tokyo Bay	Sea bass	360
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	150
	Nagoya City	9	Nagoya Port	Striped mullet	88
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	330
	Osaka Pref.	11	Osaka Bay	Sea bass	280
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	310
	Tottori Pref.	13	Nakaumi	Sea bass	42
	Hiroshima City	14	Hiroshima Bay	Sea bass	300
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	250
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(15)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	73
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	34
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	42
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	660
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	26
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	27,000
		value		Egg of Great Cormorant (Egg white)	160
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	7,000
		value	is head and heaven have fixed the second of the second of	Egg of Great Cormorant (Egg white)	32

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-1-1] 2,2',4,4'-Tetrabromodiphenyl ether (#47)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):23/24(Missing value:0)
Detection Frequency (sample):23/24(Missing value:0)

Detection limit :6 Quantification limit :16

	stats
Geometric mean	49
Median	47
Maximum	500
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/19	2/2
Detection Frequency (sample)	3/3	18/19	2/2
Geometric mean	28	49	110
Median	tr(15)	50	260
Maximum	110	220	500
Minimum	tr(14)	nd	23

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(14)
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	110
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(15)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(15)
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	72
	Iwate Pref.	4	Yamada Bay	Greenling	50
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	30
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	19
	Tokyo Met.	7	Tokyo Bay	Sea bass	200
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	80
	Nagoya City	9	Nagoya Port	Striped mullet	54
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	200
	Osaka Pref.	11	Osaka Bay	Sea bass	160
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	210
	Tottori Pref.	13	Nakaumi	Sea bass	18
	Hiroshima City	14	Hiroshima Bay	Sea bass	180
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	220
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(12)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	30
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	21
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	43
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	500
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	23
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	26,000
		value		Egg of Great Cormorant (Egg white)	160
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	6,400
		value		Egg of Great Cormorant (Egg white)	32

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-2] Pentabromodiphenyl ethers/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):23/24(Missing value:0)
Detection Frequency (sample):23/24(Missing value:0)

Detection limit :5 Quantification limit :12

	stats
Geometric mean	25
Median	23
Maximum	500
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/19	2/2
Detection Frequency (sample)	3/3	18/19	2/2
Geometric mean	18	23	77
Median	16	28	260
Maximum	62	87	500
Minimum	tr(6)	nd	12

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(6)
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	62
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	16
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	15
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	38
	Iwate Pref.	4	Yamada Bay	Greenling	29
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	18
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	14
	Tokyo Met.	7	Tokyo Bay	Sea bass	87
•	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	36
	Nagoya City	9	Nagoya Port	Striped mullet	17
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	79
	Osaka Pref.	11	Osaka Bay	Sea bass	59
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	66
	Tottori Pref.	13	Nakaumi	Sea bass	12
	Hiroshima City	14	Hiroshima Bay	Sea bass	54
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	60
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(7)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	28
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(11)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	tr(5)
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	500
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	12
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	20,000
		value		Egg of Great Cormorant (Egg white)	36
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	5,700
		value		Egg of Great Cormorant (Egg white)	12

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-2-1] 2,2',4,4',5-Pentabromodiphenyl ether (#99)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :8/24(Missing value :0)
Detection Frequency (sample) :8/24(Missing value :0)

Detection limit :5 Quantification limit :12

	stats
Geometric mean	nd
Median	nd
Maximum	38
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	5/19	1/2
Detection Frequency (sample)	2/3	5/19	1/2
Geometric mean	tr(7.8)	nd	tr(5.5)
Median	tr(5)	nd	tr(7.3)
Maximum	38	15	12
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	38
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(5)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(5)
	Iwate Pref.	4	Yamada Bay	Greenling	tr(6)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	15
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(9)
•	Nagoya City	9	Nagoya Port	Striped mullet	nd
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	nd
	Osaka Pref.	11	Osaka Bay	Sea bass	14
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	nd
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	12
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	1,200
		value		Egg of Great Cormorant (Egg white)	tr(5)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,400
		value		Egg of Great Cormorant (Egg white)	tr(5)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-3] Hexabromodiphenyl ethers/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :22/24(Missing value :0)
Detection Frequency (sample) :22/24(Missing value :0)

Detection limit :7 Quantification limit :17

	stats
Geometric mean	47
Median	46
Maximum	1,000
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	18/19	2/2
Detection Frequency (sample)	2/3	18/19	2/2
Geometric mean	tr(14)	49	230
Median	20	49	530
Maximum	36	210	1,000
Minimum	nd	nd	51

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	20
•	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	36
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	33
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	67
	Iwate Pref.	4	Yamada Bay	Greenling	36
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	43
•	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	20
	Tokyo Met.	7	Tokyo Bay	Sea bass	130
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	49
	Nagoya City	9	Nagoya Port	Striped mullet	120
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	210
	Osaka Pref.	11	Osaka Bay	Sea bass	110
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	170
	Tottori Pref.	13	Nakaumi	Sea bass	28
	Hiroshima City	14	Hiroshima Bay	Sea bass	160
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	84
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	31
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	110
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	18
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	tr(8)
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	1,000
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	51
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	25,000
		value		Egg of Great Cormorant (Egg white)	34
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	10,000
		value		Egg of Great Cormorant (Egg white)	tr(11)

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-3-1] 2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):9/24(Missing value:0)
Detection Frequency (sample):9/24(Missing value:0)

Detection limit :7 Quantification limit :17

	stats
Geometric mean	nd
Median	nd
Maximum	240
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	0/3	8/19	1/2
Detection Frequency (sample)	0/3	8/19	1/2
Geometric mean	nd	nd	29
Median	nd	nd	120
Maximum	nd	27	240
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	tr(7)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	tr(11)
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(7)
	Nagoya City	9	Nagoya Port	Striped mullet	nd
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	27
	Osaka Pref.	11	Osaka Bay	Sea bass	tr(13)
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	tr(7)
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	tr(8)
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(7)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	240
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	8,900
		value		Egg of Great Cormorant (Egg white)	tr(7)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	4,500
		value	is head and heaven have fixed the second of the second of	Egg of Great Cormorant (Egg white)	nd

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-3-2] 2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):19/24(Missing value:0)
Detection Frequency (sample):19/24(Missing value:0)

Detection limit :5 Quantification limit :13

	stats
Geometric mean	15
Median	14
Maximum	640
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	16/19	2/2
Detection Frequency (sample)	1/3	16/19	2/2
Geometric mean	nd	15	140
Median	nd	14	340
Maximum	tr(6)	78	640
Minimum	nd	nd	30

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(6)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(8)
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	40
	Iwate Pref.	4	Yamada Bay	Greenling	17
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(12)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	tr(7)
	Tokyo Met.	7	Tokyo Bay	Sea bass	45
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	14
	Nagoya City	9	Nagoya Port	Striped mullet	14
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	78
	Osaka Pref.	11	Osaka Bay	Sea bass	24
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	38
	Tottori Pref.	13	Nakaumi	Sea bass	tr(10)
	Hiroshima City	14	Hiroshima Bay	Sea bass	30
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	32
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	42
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(8)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	640
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	30
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	11,000
		value		Egg of Great Cormorant (Egg white)	15
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	4,400
		value		Egg of Great Cormorant (Egg white)	tr(7)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-4] Heptabromodiphenyl ethers/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):13/24(Missing value:0)
Detection Frequency (sample):13/24(Missing value:0)

Detection limit :8 Quantification limit :22

	stats
Geometric mean	tr(12)
Median	tr(11)
Maximum	440
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	10/19	2/2
Detection Frequency (sample)	1/3	10/19	2/2
Geometric mean	nd	tr(11)	89
Median	nd	tr(12)	230
Maximum	tr(9)	55	440
Minimum	nd	nd	tr(18)

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	tr(9)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	nd
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(12)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	42
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(13)
•	Nagoya City	9	Nagoya Port	Striped mullet	48
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	tr(15)
	Osaka Pref.	11	Osaka Bay	Sea bass	43
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	26
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	48
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	36
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	55
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	440
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	tr(18)
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	12,000
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	8,100
		value		Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-4-1] 2,2',3,3',4,5',6'-Heptabromodiphenyl ether (#175)/wildlife (pg/g-wet) and [14-4-2] 2,2',3,4,4',5',6'-Heptabromodiphenyl ether (#183)/wildlife (pg/g-wet)

Monitored year :2017 Monitored year :2017

Detection Frequency (site) :0/24(Missing value :0)
Detection Frequency (sample) :0/24(Missing value :0)

Detection limit:8

	stats
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	0/3	0/19	0/2
Detection Frequency (sample)	0/3	0/19	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	nd
Maximum	nd	nd	nd
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	nd
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	nd
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
	Nagoya City	9	Nagoya Port	Striped mullet	nd
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	nd
	Osaka Pref.	11	Osaka Bay	Sea bass	nd
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	680
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	220
		value		Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[14-5] Octabromodiphenyl ethers/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :12/24(Missing value :0)
Detection Frequency (sample) :12/24(Missing value :0)

Detection limit :8 Quantification limit :20

	stats
Geometric mean	tr(11)
Median	nd
Maximum	720
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	9/19	2/2
Detection Frequency (sample)	1/3	9/19	2/2
Geometric mean	nd	tr(9.7)	130
Median	nd	nd	370
Maximum	tr(9)	88	720
Minimum	nd	nd	25

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	tr(9)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	nd
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	38
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(9)
	Nagoya City	9	Nagoya Port	Striped mullet	29
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	tr(11)
	Osaka Pref.	11	Osaka Bay	Sea bass	51
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	tr(11)
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	57
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	tr(19)
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	88
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	720
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	25
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	11,000
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	12,000
		value		Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[14-6] Nonabromodiphenyl ethers/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :1/24(Missing value :0)
Detection Frequency (sample) :1/24(Missing value :0)

Detection limit :20 Quantification limit :50

	stats
Geometric mean	nd
Median	nd
Maximum	68
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	0/3	1/19	0/2
Detection Frequency (sample)	0/3	1/19	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	nd
Maximum	nd	68	nd
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	nd
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	nd
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
	Nagoya City	9	Nagoya Port	Striped mullet	nd
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	nd
	Osaka Pref.	11	Osaka Bay	Sea bass	nd
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	68
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	450
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	160
		value		Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

[14-7] Decabromodiphenyl ether/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :2/24(Missing value :0)
Detection Frequency (sample) :2/24(Missing value :0)

Detection limit :80 Quantification limit :210

	stats
Geometric mean	nd
Median	nd
Maximum	2,100
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	1/19	0/2
Detection Frequency (sample)	1/3	1/19	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	nd
Maximum	tr(180)	2,100	nd
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(180)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	nd
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	nd
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
	Nagoya City	9	Nagoya Port	Striped mullet	nd
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	nd
	Osaka Pref.	11	Osaka Bay	Sea bass	nd
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	2,100
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	680
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	260
		value	is head and heaven have fixed the second of the second of	Egg of Great Cormorant (Egg white)	nd

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[15] Perfluorooctane sulfonic acid (PFOS)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :23/24(Missing value :0) Detection Frequency (sample) :23/24(Missing value :0)

Detection limit :4 Quantification limit :12

	stats
Geometric mean	170
Median	160
Maximum	32,000
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	19/19	2/2
Detection Frequency (sample)	2/3	19/19	2/2
Geometric mean	22	150	9,800
Median	34	150	18,000
Maximum	160	11,000	32,000
Minimum	nd	tr(4)	3,000

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	160
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	34
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	75
		2	Offshore of Kushiro	Chum salmon	38
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	26
	Iwate Pref.	4	Yamada Bay	Greenling	39
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	41
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	58
	Tokyo Met.	7	Tokyo Bay	Sea bass	1,200
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	640
	Nagoya City	9	Nagoya Port	Striped mullet	100
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	11,000
	Osaka Pref.	11	Osaka Bay	Sea bass	900
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	350
	Tottori Pref.	13	Nakaumi	Sea bass	340
	Hiroshima City	14	Hiroshima Bay	Sea bass	150
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	190
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	190
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	210
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	73
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	tr(4)
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	32,000
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	3,000
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	53,000
		value		Egg of Great Cormorant (Egg white)	270
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	21,000
		value		Egg of Great Cormorant (Egg white)	300

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[16] Perfluorooctanoic acid (PFOA)/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):16/24(Missing value:0)
Detection Frequency (sample):16/24(Missing value:0)

Detection limit :4 Quantification limit :12

	stats
Geometric mean	tr(8.6)
Median	tr(5)
Maximum	680
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	12/19	2/2
Detection Frequency (sample)	2/3	12/19	2/2
Geometric mean	tr(6.3)	tr(6.4)	240
Median	tr(7)	tr(4)	380
Maximum	18	79	680
Minimum	nd	nd	85

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	tr(7)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	18
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(11)
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	12
	Iwate Pref.	4	Yamada Bay	Greenling	67
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	36
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	33
	Tokyo Met.	7	Tokyo Bay	Sea bass	tr(5)
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(4)
	Nagoya City	9	Nagoya Port	Striped mullet	nd
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	79
	Osaka Pref.	11	Osaka Bay	Sea bass	12
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	tr(5)
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(4)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(4)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	680
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	85
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	540
		value		Egg of Great Cormorant (Egg white)	tr(4)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,100
		value		Egg of Great Cormorant (Egg white)	24

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[17] Pentachlorobenzene/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :1 Quantification limit :4

	stats
Geometric mean	31
Median	30
Maximum	470
Minimum	4

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	18	29	130
Median	19	32	250
Maximum	22	170	470
Minimum	14	4	35

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	19
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	22
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	14
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	42
		2	Offshore of Kushiro	Chum salmon	34
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	28
	Iwate Pref.	4	Yamada Bay	Greenling	65
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	13
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	98
	Tokyo Met.	7	Tokyo Bay	Sea bass	170
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	100
	Nagoya City	9	Nagoya Port	Striped mullet	67
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	89
	Osaka Pref.	11	Osaka Bay	Sea bass	32
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	28
	Tottori Pref.	13	Nakaumi	Sea bass	12
	Hiroshima City	14	Hiroshima Bay	Sea bass	20
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	88
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	4
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	13
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	4
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	6
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	470
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	35
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	5,600
		value		Egg of Great Cormorant (Egg white)	15
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,900
		value		Egg of Great Cormorant (Egg white)	12

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[19] 1,2,5,6,9,10-Hexabromocyclododecanes/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):22/24(Missing value:0)
Detection Frequency (sample):22/24(Missing value:0)

Detection limit :*27 Quantification limit :*71

	stats
Geometric mean	170
Median	200
Maximum	7,900
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	17/19	2/2
Detection Frequency (sample)	3/3	17/19	2/2
Geometric mean	260	150	330
Median	230	160	1,100
Maximum	670	7,900	2,200
Minimum	110	nd	tr(50)

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	110
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	670
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	230
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	110
		2	Offshore of Kushiro	Chum salmon	tr(38)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	340
	Iwate Pref.	4	Yamada Bay	Greenling	250
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(51)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	320
	Tokyo Met.	7	Tokyo Bay	Sea bass	710
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	110
	Nagoya City	9	Nagoya Port	Striped mullet	160
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	670
	Osaka Pref.	11	Osaka Bay	Sea bass	450
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	7,900
	Tottori Pref.	13	Nakaumi	Sea bass	73
	Hiroshima City	14	Hiroshima Bay	Sea bass	300
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	230
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(64)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	160
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	2,200
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	tr(50)
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	47,000
		value		Egg of Great Cormorant (Egg white)	390
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	26,000
		value		Egg of Great Cormorant (Egg white)	170

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

(Note 4) nd: Not detected

(Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[19-1] α -1,2,5,6,9,10-Hexabromocyclododecane/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :9 Quantification limit :24

	stats
Geometric mean	160
Median	170
Maximum	7,800
Minimum	tr(9)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	190	140	330
Median	200	140	1,100
Maximum	430	7,800	2,200
Minimum	86	tr(9)	50

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	86
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	430
•	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	200
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	110
		2	Offshore of Kushiro	Chum salmon	38
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	330
	Iwate Pref.	4	Yamada Bay	Greenling	250
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	33
•	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	290
	Tokyo Met.	7	Tokyo Bay	Sea bass	590
•	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	87
	Nagoya City	9	Nagoya Port	Striped mullet	130
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	630
	Osaka Pref.	11	Osaka Bay	Sea bass	360
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	7,800
	Tottori Pref.	13	Nakaumi	Sea bass	73
	Hiroshima City	14	Hiroshima Bay	Sea bass	270
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	210
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	55
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	140
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(9)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	tr(9)
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	2,200
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	50
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	47,000
		value		Egg of Great Cormorant (Egg white)	390
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	26,000
		value		Egg of Great Cormorant (Egg white)	170

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

[19-2] β -1,2,5,6,9,10-Hexabromocyclododecane/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :3/24(Missing value :0)
Detection Frequency (sample) :3/24(Missing value :0)

Detection limit :9 Quantification limit :23

	stats
Geometric mean	nd
Median	nd
Maximum	36
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	2/19	0/2
Detection Frequency (sample)	1/3	2/19	0/2
Geometric mean	tr(9)	nd	nd
Median	nd	nd	nd
Maximum	36	tr(12)	nd
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	36
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	nd
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	tr(12)
	Tokyo Met.	7	Tokyo Bay	Sea bass	nd
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
	Nagoya City	9	Nagoya Port	Striped mullet	nd
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	nd
	Osaka Pref.	11	Osaka Bay	Sea bass	nd
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(9)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	nd
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	nd
		value	is board and bounded friends	Egg of Great Cormorant (Egg white)	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[19-3] γ -1,2,5,6,9,10-Hexabromocyclododecane/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):16/24(Missing value:0)
Detection Frequency (sample):16/24(Missing value:0)

Detection limit :9 Quantification limit :24

	stats
Geometric mean	tr(17)
Median	tr(19)
Maximum	200
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	12/19	1/2
Detection Frequency (sample)	3/3	12/19	1/2
Geometric mean	49	tr(16)	tr(9)
Median	30	tr(18)	tr(11)
Maximum	200	120	tr(18)
Minimum	tr(20)	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(20)
Bibalves	Bibalves Yokohama City		Yokohama Port	Blue mussel	200
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	30
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(12)
	Iwate Pref.	4	Yamada Bay	Greenling	nd
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(18)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	tr(18)
	Tokyo Met.	7	Tokyo Bay	Sea bass	120
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	24
	Nagoya City	9	Nagoya Port	Striped mullet	28
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	42
	Osaka Pref.	11	Osaka Bay	Sea bass	94
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	79
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	35
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	tr(21)
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(21)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	tr(18)
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	410
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	79
		value	is been decreased as first decrease (decreased	Egg of Great Cormorant (Egg white)	nd

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[20] Total Polychlorinated Naphthalenes/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):21/24(Missing value:0)
Detection Frequency (sample):21/24(Missing value:0)

Detection limit :*12 Quantification limit :*33

	stats
Geometric mean	37
Median	53
Maximum	1,400
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	17/19	2/2
Detection Frequency (sample)	2/3	17/19	2/2
Geometric mean	46	32	91
Median	68	51	240
Maximum	1,400	360	460
Minimum	nd	nd	tr(18)

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	68
Bibalves Yokohama City		2	Yokohama Port	Blue mussel	1,400
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(15)
		2	Offshore of Kushiro	Chum salmon	tr(12)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(16)
	Iwate Pref.	4	Yamada Bay	Greenling	54
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(27)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	61
	Tokyo Met.	7	Tokyo Bay	Sea bass	360
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	140
	Nagoya City	9	Nagoya Port	Striped mullet	190
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	92
	Osaka Pref.	11	Osaka Bay	Sea bass	250
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	72
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	51
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	110
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(14)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(12)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	tr(12)
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	460
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	tr(18)
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	9,200
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	7,300
		value		Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more. (Note 3) tr: detection limit value and more, less than Quantification limit value.

(Note 4) nd: Not detected

(Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

[20-1] monochlorinated Naphthalene/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):19/24(Missing value:0)
Detection Frequency (sample):19/24(Missing value:0)

Detection limit :2 Quantification limit :6

	stats
Geometric mean	tr(4.1)
Median	tr(3)
Maximum	29
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	16/19	1/2
Detection Frequency (sample)	2/3	16/19	1/2
Geometric mean	tr(4.4)	tr(4.5)	nd
Median	tr(4)	tr(3)	nd
Maximum	21	29	tr(2)
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	21
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(4)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(2)
		2	Offshore of Kushiro	Chum salmon	tr(2)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(3)
	Iwate Pref.	4	Yamada Bay	Greenling	9
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	13
	Tokyo Met.	7	Tokyo Bay	Sea bass	12
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(5)
	Nagoya City	9	Nagoya Port	Striped mullet	20
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	tr(2)
	Osaka Pref.	11	Osaka Bay	Sea bass	29
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	10
	Tottori Pref.	13	Nakaumi	Sea bass	tr(2)
	Hiroshima City	14	Hiroshima Bay	Sea bass	6
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	27
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(3)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(3)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	tr(2)
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	9
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	24
		value		Egg of Great Cormorant (Egg white)	nd

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) $\ensuremath{\text{tr}}$: detection limit value and more, less than Quantification limit value.

[20-2] dichlorinated Naphthalene/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):16/24(Missing value:0)
Detection Frequency (sample):16/24(Missing value:0)

Detection limit :2 Quantification limit :5

	stats
Geometric mean	tr(4.5)
Median	tr(3.5)
Maximum	160
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	14/19	0/2
Detection Frequency (sample)	2/3	14/19	0/2
Geometric mean	8.6	tr(4.7)	nd
Median	tr(4)	5	nd
Maximum	160	30	nd
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(4)
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	160
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(3)
		2	Offshore of Kushiro	Chum salmon	5
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(3)
	Iwate Pref.	4	Yamada Bay	Greenling	12
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	18
	Tokyo Met.	7	Tokyo Bay	Sea bass	30
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	8
	Nagoya City	9	Nagoya Port	Striped mullet	22
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	tr(3)
	Osaka Pref.	11	Osaka Bay	Sea bass	19
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	10
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	9
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	12
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(2)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	5
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	tr(4)
		value	is head and heaven her fisher than 100 miles	Egg of Great Cormorant (Egg white)	nd

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[20-3] trichlorinated Naphthalene/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):14/24(Missing value:0)
Detection Frequency (sample):14/24(Missing value:0)

Detection limit :2 Quantification limit :5

	stats
Geometric mean	tr(3.8)
Median	tr(2)
Maximum	310
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	11/19	1/2
Detection Frequency (sample)	2/3	11/19	1/2
Geometric mean	16	tr(3.3)	nd
Median	14	tr(2)	nd
Maximum	310	43	tr(2)
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	14
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	310
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(2)
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	tr(3)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	11
	Tokyo Met.	7	Tokyo Bay	Sea bass	43
•	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	13
	Nagoya City	9	Nagoya Port	Striped mullet	18
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	tr(2)
	Osaka Pref.	11	Osaka Bay	Sea bass	33
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	6
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	5
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	7
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	tr(2)
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	14
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	30
		value	is board and bounded friends	Egg of Great Cormorant (Egg white)	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[20-4] tetrachlorinated Naphthalene/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :24/24(Missing value :0)
Detection Frequency (sample) :24/24(Missing value :0)

Detection limit :2 Quantification limit :5

	stats
Geometric mean	17
Median	15
Maximum	630
Minimum	tr(2)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	36	14	34
Median	36	14	89
Maximum	630	140	170
Minimum	tr(2)	tr(3)	7

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	36
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	630
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(2)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	6
		2	Offshore of Kushiro	Chum salmon	tr(4)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(3)
	Iwate Pref.	4	Yamada Bay	Greenling	14
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	9
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	16
	Tokyo Met.	7	Tokyo Bay	Sea bass	140
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	56
	Nagoya City	9	Nagoya Port	Striped mullet	69
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	32
	Osaka Pref.	11	Osaka Bay	Sea bass	85
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	19
	Tottori Pref.	13	Nakaumi	Sea bass	tr(4)
	Hiroshima City	14	Hiroshima Bay	Sea bass	16
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	32
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	6
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(4)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	7
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	5
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	170
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	7
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	3,500
		value		Egg of Great Cormorant (Egg white)	tr(4)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,700
		value		Egg of Great Cormorant (Egg white)	5

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

[20-5] pentachlorinated Naphthalene/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):24/24(Missing value:0)
Detection Frequency (sample):24/24(Missing value:0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	12
Median	12
Maximum	280
Minimum	tr(1)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	16	9.7	38
Median	14	11	110
Maximum	280	110	210
Minimum	tr(1)	tr(1)	7

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	14
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	280
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(1)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(1)
		2	Offshore of Kushiro	Chum salmon	tr(1)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	5
	Iwate Pref.	4	Yamada Bay	Greenling	13
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	13
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	3
	Tokyo Met.	7	Tokyo Bay	Sea bass	110
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	45
	Nagoya City	9	Nagoya Port	Striped mullet	53
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	47
	Osaka Pref.	11	Osaka Bay	Sea bass	69
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	18
	Tottori Pref.	13	Nakaumi	Sea bass	4
	Hiroshima City	14	Hiroshima Bay	Sea bass	11
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	25
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(1)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	4
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	5
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	7
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	210
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	7
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	4,600
		value		Egg of Great Cormorant (Egg white)	6
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	2,400
		value	is been decreased as first decrease (decreased	Egg of Great Cormorant (Egg white)	tr(1)

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

[20-6] hexachlorinated Naphthalene/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):17/24(Missing value:0)
Detection Frequency (sample):17/24(Missing value:0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	tr(2.7)
Median	tr(2.5)
Maximum	74
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	14/19	2/2
Detection Frequency (sample)	1/3	14/19	2/2
Geometric mean	tr(1.7)	tr(2.5)	12
Median	nd	3	38
Maximum	19	24	74
Minimum	nd	nd	tr(2)

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	19
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(1)
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(2)
	Iwate Pref.	4	Yamada Bay	Greenling	3
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	5
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	24
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	14
•	Nagoya City	9	Nagoya Port	Striped mullet	7
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	6
	Osaka Pref.	11	Osaka Bay	Sea bass	19
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	9
	Tottori Pref.	13	Nakaumi	Sea bass	tr(1)
	Hiroshima City	14	Hiroshima Bay	Sea bass	4
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	5
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(1)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	74
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	tr(2)
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	1,100
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,100
		value		Egg of Great Cormorant (Egg white)	tr(1)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[20-7] heptachlorinated Naphthalene/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :3/24(Missing value :0)
Detection Frequency (sample) :3/24(Missing value :0)

Detection limit :1 Quantification limit :3

	stats
Geometric mean	nd
Median	nd
Maximum	tr(1)
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	2/19	0/2
Detection Frequency (sample)	1/3	2/19	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	nd
Maximum	tr(1)	tr(1)	nd
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	tr(1)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	nd
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	tr(1)
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(1)
	Nagoya City	9	Nagoya Port	Striped mullet	nd
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	nd
	Osaka Pref.	11	Osaka Bay	Sea bass	nd
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	4
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	6
		value	is head and heaven her fisher than 100 miles	Egg of Great Cormorant (Egg white)	nd

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[20-8] octachlorinated Naphthalene/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :0/24(Missing value :0)

Detection Frequency (sample) :0/24(Missing value :0)

Detection limit :1

Detection limit :1 Quantification limit :3

	stats
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	0/3	0/19	0/2
Detection Frequency (sample)	0/3	0/19	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	nd
Maximum	nd	nd	nd
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	nd
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	nd
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
	Nagoya City	9	Nagoya Port	Striped mullet	nd
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	nd
	Osaka Pref.	11	Osaka Bay	Sea bass	nd
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	nd
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	nd
		value	is board and a supplier of six a decrease (do supplier)	Egg of Great Cormorant (Egg white)	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

[22] Pentachlorophenol and its salts and esters/wildlife (pg/g-wet)

Monitored year: 2017

Detection Frequency (site): 17/24(Missing value:0)

Detection Frequency (sample): 17/24(Missing value:0)

Detection limit :*13 Quantification limit :*40

	stats
Geometric mean	tr(30)
Median	tr(21)
Maximum	11,000
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	14/19	2/2
Detection Frequency (sample)	1/3	14/19	2/2
Geometric mean	tr(14)	tr(22)	1,800
Median	nd	tr(20)	5,700
Maximum	71	170	11,000
Minimum	nd	nd	310

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	71
	Ishikawa Pref.		Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(22)
		2	Offshore of Kushiro	Chum salmon	tr(19)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(19)
	Iwate Pref.	4	Yamada Bay	Greenling	tr(14)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(14)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	tr(35)
	Tokyo Met.	7	Tokyo Bay	Sea bass	170
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	78
	Nagoya City	9	Nagoya Port	Striped mullet	160
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	43
	Osaka Pref.	11	Osaka Bay	Sea bass	89
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	tr(22)
	Tottori Pref.	13	Nakaumi	Sea bass	tr(20)
	Hiroshima City	14	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	tr(29)
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	310
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	11,000
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	1,300
		value		Egg of Great Cormorant (Egg white)	tr(15)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	360
		value	is board and bounded friends	Egg of Great Cormorant (Egg white)	tr(20)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 3) tr: detection limit value and more, less than Quantification limit value.

(Note 4) nd: Not detected

(Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

⁽Note 2) Data treated as detected means detection limit value and more.

[22-1] Pentachlorophenol/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):17/24(Missing value:0)
Detection Frequency (sample):17/24(Missing value:0)

Detection limit :12 Quantification limit :36

	stats
Geometric mean	tr(22)
Median	tr(16)
Maximum	11,000
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	14/19	2/2
Detection Frequency (sample)	1/3	14/19	2/2
Geometric mean	nd	tr(15)	1,800
Median	nd	tr(15)	5,700
Maximum	tr(35)	110	11,000
Minimum	nd	nd	300

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	tr(35)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(20)
		2	Offshore of Kushiro	Chum salmon	tr(13)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(18)
	Iwate Pref.	4	Yamada Bay	Greenling	tr(13)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(12)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	tr(15)
	Tokyo Met.	7	Tokyo Bay	Sea bass	47
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(27)
	Nagoya City	9	Nagoya Port	Striped mullet	110
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	tr(24)
	Osaka Pref.	11	Osaka Bay	Sea bass	tr(30)
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	tr(16)
	Tottori Pref.	13	Nakaumi	Sea bass	tr(17)
	Hiroshima City	14	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	tr(14)
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	300
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	11,000
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	750
		value		Egg of Great Cormorant (Egg white)	tr(13)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	140
		value		Egg of Great Cormorant (Egg white)	tr(19)

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[22-2] Pentachloroanisole/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):24/24(Missing value:0)
Detection Frequency (sample):24/24(Missing value:0)

Detection limit :1 Quantification limit :4

	stats
Geometric mean	7.3
Median	5.5
Maximum	120
Minimum	tr(1)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	19/19	2/2
Detection Frequency (sample)	3/3	19/19	2/2
Geometric mean	6	6.7	23
Median	tr(3)	5	29
Maximum	36	120	47
Minimum	tr(2)	tr(1)	11

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(2)
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	36
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(3)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(2)
		2	Offshore of Kushiro	Chum salmon	6
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(1)
	Iwate Pref.	4	Yamada Bay	Greenling	tr(1)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(2)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	20
	Tokyo Met.	7	Tokyo Bay	Sea bass	120
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	51
•	Nagoya City	9	Nagoya Port	Striped mullet	49
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	19
	Osaka Pref.	11	Osaka Bay	Sea bass	59
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	6
	Tottori Pref.	13	Nakaumi	Sea bass	tr(3)
	Hiroshima City	14	Hiroshima Bay	Sea bass	4
•	Kagawa Pref.	15	Takamatsu Port	Striped mullet	15
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(3)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	tr(1)
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(2)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	5
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	11
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	47
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	570
		value		Egg of Great Cormorant (Egg white)	tr(2)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	220
		value		Egg of Great Cormorant (Egg white)	tr(1)

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) tr: detection limit value and more, less than Quantification limit value.

[23] Short-chain chlorinated paraffins/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):21/24(Missing value:0)
Detection Frequency (sample):21/24(Missing value:0)

Detection limit :*1,000 Quantification limit :*2,700

	stats
Geometric mean	4,700
Median	6,100
Maximum	66,000
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	16/19	2/2
Detection Frequency (sample)	3/3	16/19	2/2
Geometric mean	6,600	4,000	11,000
Median	7,200	5,000	34,000
Maximum	21,000	48,000	66,000
Minimum	tr(1,900)	nd	tr(2,000)

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(1,900)
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	21,000
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	7,200
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(1,900)
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(1,900)
	Iwate Pref.	4	Yamada Bay	Greenling	tr(2,400)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(2,300)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	5,000
	Tokyo Met.	7	Tokyo Bay	Sea bass	32,000
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	11,000
	Nagoya City	9	Nagoya Port	Striped mullet	8,000
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	11,000
	Osaka Pref.	11	Osaka Bay	Sea bass	30,000
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	48,000
	Tottori Pref.	13	Nakaumi	Sea bass	3,400
	Hiroshima City	14	Hiroshima Bay	Sea bass	17,000
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	31,000
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	8,200
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(1,400)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	66,000
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	tr(2,000)
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	520,000
		value		Egg of Great Cormorant (Egg white)	tr(1,300)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	930,000
		value		Egg of Great Cormorant (Egg white)	8,400

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 3) tr: detection limit value and more, less than Quantification limit value.

(Note 4) nd: Not detected

(Note 5) *: indicates the sum value of the Quantification [Detection] limits of each congener.

⁽Note 2) Data treated as detected means detection limit value and more.

[23-1] Chlorinated decanes/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):19/24(Missing value:0)
Detection Frequency (sample):19/24(Missing value:0)

Detection limit :200 Quantification limit :500

	stats
Geometric mean	tr(430)
Median	tr(450)
Maximum	2,100
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	16/19	1/2
Detection Frequency (sample)	2/3	16/19	1/2
Geometric mean	670	tr(410)	tr(400)
Median	1,700	tr(400)	850
Maximum	1,800	2,100	1,600
Minimum	nd	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	1,800
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	1,700
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(400)
		2	Offshore of Kushiro	Chum salmon	tr(200)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(200)
	Iwate Pref.	4	Yamada Bay	Greenling	tr(400)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	tr(200)
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	2,100
	Tokyo Met.	7	Tokyo Bay	Sea bass	1,200
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	600
	Nagoya City	9	Nagoya Port	Striped mullet	nd
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	500
	Osaka Pref.	11	Osaka Bay	Sea bass	1,300
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	900
	Tottori Pref.	13	Nakaumi	Sea bass	tr(200)
	Hiroshima City	14	Hiroshima Bay	Sea bass	700
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	900
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	1,300
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(200)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	1,600
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	33,000
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	34,000
		value	is head and heaven her fisher than 100 miles	Egg of Great Cormorant (Egg white)	tr(400)

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[23-2] Chlorinated undecanes/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site) :21/24(Missing value :0)
Detection Frequency (sample) :21/24(Missing value :0)

Detection limit :300 Quantification limit :800

	stats
Geometric mean	2,100
Median	2,300
Maximum	31,000
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	16/19	2/2
Detection Frequency (sample)	3/3	16/19	2/2
Geometric mean	2,200	1,900	5,000
Median	3,400	1,100	16,000
Maximum	11,000	24,000	31,000
Minimum	tr(300)	nd	800

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(300)
Bibalves	Bibalves Yokohama City		Yokohama Port	Blue mussel	11,000
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	3,400
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(400)
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	tr(500)
	Iwate Pref.	4	Yamada Bay	Greenling	tr(700)
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	800
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	tr(600)
	Tokyo Met.	7	Tokyo Bay	Sea bass	18,000
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	7,100
	Nagoya City	9	Nagoya Port	Striped mullet	6,000
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	6,400
	Osaka Pref.	11	Osaka Bay	Sea bass	18,000
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	24,000
	Tottori Pref. 13 Nakaumi Hiroshima City 14 Hiroshima Bay Kagawa Pref. 15 Takamatsu Port		Nakaumi	Sea bass	1,100
			Hiroshima Bay	Sea bass	10,000
•			Takamatsu Port	Striped mullet	18,000
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	4,500
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	tr(300)
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	31,000
	Tottori Pref.		Riv.Tenjin(Kurayoshi City)	Great Cormorant	800
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	200,000
		value		Egg of Great Cormorant (Egg white)	tr(600)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	320,000
		value		Egg of Great Cormorant (Egg white)	5,300

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[23-3] Chlorinated dodecanes/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):23/24(Missing value:0) Detection Frequency (sample):23/24(Missing value:0)

Detection limit :300 Quantification limit :900

	stats
Geometric mean	2,300
Median	1,800
Maximum	25,000
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/19	2/2
Detection Frequency (sample)	3/3	18/19	2/2
Geometric mean	2,000	2,100	5,500
Median	1,400	2,100	13,000
Maximum	4,700	19,000	25,000
Minimum	1,300	nd	1,200

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	1,300
Bibalves	Bibalves Yokohama City		Yokohama Port	Blue mussel	4,700
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	1,400
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	1,100
		2	Offshore of Kushiro	Chum salmon	tr(600)
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	1,200
	Iwate Pref.	4	Yamada Bay	Greenling	1,300
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	1,300
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	2,300
	Tokyo Met.	7	Tokyo Bay	Sea bass	8,900
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	2,700
	Nagoya City	9	Nagoya Port	Striped mullet	1,500
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	3,400
	Osaka Pref.	11	Osaka Bay	Sea bass	8,000
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	19,000
	Tottori Pref. 13 Nakaumi Hiroshima City 14 Hiroshima		Nakaumi	Sea bass	2,100
			Hiroshima Bay	Sea bass	5,900
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	11,000
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	tr(500)
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	2,400
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	900
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	25,000
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	1,200
	Yamanashi Pref.	reference	Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	170,000
		value		Egg of Great Cormorant (Egg white)	tr(700)
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	480,000
		value		Egg of Great Cormorant (Egg white)	2,700

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[23-4] Chlorinated tridecanes/wildlife (pg/g-wet)

Monitored year :2017

Detection Frequency (site):12/24(Missing value:0)
Detection Frequency (sample):12/24(Missing value:0)

Detection limit :200 Quantification limit :500

	stats
Geometric mean	tr(360)
Median	tr(200)
Maximum	8,100
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	8/19	1/2
Detection Frequency (sample)	3/3	8/19	1/2
Geometric mean	870	tr(290)	900
Median	700	nd	4,100
Maximum	3,100	4,100	8,100
Minimum	tr(300)	nd	nd

	Local communities	No	Monitored sites	Wildlife species	Measured value
	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(300)
Bibalves	Yokohama City	2	Yokohama Port	Blue mussel	3,100
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	700
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2	Offshore of Kushiro	Chum salmon	nd
		3	Offshore of Japan Sea(offshore of Iwanai)	Greenling	nd
	Iwate Pref.	4	Yamada Bay	Greenling	nd
	Miyagi Pref.	5	Sendai Bay(Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	6	Offshore of Joban	Pacific saury	nd
	Tokyo Met.	7	Tokyo Bay	Sea bass	3,800
	Kawasaki City	8	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	700
	Nagoya City	9	Nagoya Port	Striped mullet	500
	Shiga Pref.	10	Lake Biwa, Riv. Ado (Takashima City)	Dace	900
	Osaka Pref.	11	Osaka Bay	Sea bass	2,400
	Hyogo Pref.	12	Offshore of Himeji	Sea bass	4,100
	Tottori Pref.	13	Nakaumi	Sea bass	nd
	Hiroshima City	14	Hiroshima Bay	Sea bass	tr(400)
	Kagawa Pref.	15	Takamatsu Port	Striped mullet	1,000
	Kochi Pref.	16	Mouth of Riv. Shimanto(Shimanto City)	Sea bass	nd
	Oita Pref.	17	Mouth of Riv. Oita(Oita City)	Sea bass	nd
	Kagoshima Pref.	18	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	19	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Lake Biwa(Lake Kita, offshore of Tikubushima Island)	Great Cormorant	8,100
	Tottori Pref.	2	Riv.Tenjin(Kurayoshi City)	Great Cormorant	nd
	Yamanashi Pref.		Shimosone-bashi Bridge, Riv.Fuefuki (Kofu City)	Egg of Great Cormorant (Egg yolk)	120,000
		value		Egg of Great Cormorant (Egg white)	nd
	Hyogo Pref.	reference	Koyaike pond (Itami City)	Egg of Great Cormorant (Egg yolk)	100,000
			is been decreased as fixed decrease (decreased)	Egg of Great Cormorant (Egg white)	nd

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr: detection limit value and more, less than Quantification limit value.

[1] Total PCBs /air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :*2.3

Quantification limit :*7.0

	stats
Geometric mean	120
Median	110
Maximum	3,300
Minimum	26

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			Sampling dates $10/10 \sim 10/17$	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	54	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	27	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	41	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	100	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	110	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	110	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	100	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	230	MV
	9	Chichijima Island	10/6 ~ 10/13	26	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	320	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	220	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	240	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	190	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	94	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	180	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	120	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	110	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	160	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	70	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	75	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Monitored sites	Sampling dates	Measured value	An sampler
	21	Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20		
Osaka Pref.			9/20 ~ 9/21	700	HV
		Annex(Osaka City)	9/21 ~ 9/22	1	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	110	HV
Hyogo Fiel.	22	Tryogo Frerecturar Environmentar Research Center(Robe City)		110	11 V
			8/31 ~ 9/1		
** 1 G':		r t at a r t at)	9/12 ~ 9/13	2 200	
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	3,300	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	280	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	46	HV
		,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/12 9/13	180	HV
Throsinna City	20	Timosinina City Kokutaiji Juniol Tiigii School(Tiilosiliiia City)		100	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	4.60	
Yamaguchi Pref.	27	Environment(Yamaguchi City)		160	MV
		Environment (Tuningueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		210	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	96	HV
101140111114 11411	27	Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
V D C	20	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	9/2/~10/4	120	MV
Kagawa Pref.	30				MV
			0/00 0/00		
		Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	190	
Ehime Pref.	31		8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	220	HV
			9/27 ~ 9/28	1	
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		99	MV
2.5. 1101.	23				112 7
			10/3 ~ 10/4		
Variant D. C	2.4	Kumamoto Prefectural Institute of Public Health and		60	1137
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	69	HV
		. • .	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		36	MV
		Zara amilon (ini juzuki Gitj)			
Kagoshima Pref.		Vaccahima Profestural Institute for Environmental D	8/29 ~ 8/30	110	<u> </u>
	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31		HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	1	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	27	$\mathbf{H}V$
Okiliawa Fiel.	37	Cape Hedo(Kuingaini vinage)		<i>∠1</i>	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more. (Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

⁽Note 4) * : indicates the sum value of the Quantification [Detection] limits of each congener.

[1-1] Monochlorobiphenyls/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :0.07 Quantification limit :0.21

	stats
Geometric mean	9.3
Median	10
Maximum	37
Minimum	1.2

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates	Measured value	*
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	5.1	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	3.2	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	3.1	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	6.2	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	8.2	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	13	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	20	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	11	MV
	9	Chichijima Island	10/6 ~ 10/13	1.2	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	37	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	12	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	22	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	12	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	8.4	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	11	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	7.0	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	9.8	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	12	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	14	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	6.0	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	All sampler
		Onder Initiat Professional Community Profiling Profiling 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	11	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	8.0	HV
Hyogo Fiel.	22	Tryogo Frerecturar Environmentar Research Center(Robe City)		8.0	11 V
			8/31 ~ 9/1		
** 1 G':		r t at a r t at)	9/12 ~ 9/13		****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	12	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	18	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	6.9	HV
		,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	9.1	HV
Till Oslillia City	20	Throshinia City Kokutaiji Julioi Tilgii School(Tiiroshinia City)		9.1	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		29	MV
		Environment (Tamagueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		27	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	5.0	HV
TORUSHIHIA TTCI.	E	Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	3.0	111
	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	9/27 ~ 10/4	13	2.67
Kagawa Pref.					MV
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	9.7	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	15	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	2112 2120	10	MV
Saga I ICI.	33	Juga i refecturar Environmentar Research Center(Saga City)		10	1 V1 V
			10/2 - 10/4		
77	2.	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		****
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	11	HV
		` ",	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		3.5	MV
		Environment(whyazaki City)			
Kagoshima Pref.		W 1: D C 4 11 (4 4 C D ; 12 D)	8/29 ~ 8/30		
	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	9.8	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	1.0	'
			8/28 ~ 8/29		
Oleimare Desc	27	Care Hada(Vymiaami Village)		20	1137
Okinawa Pref.	3/	37 Cape Hedo(Kunigami Village)	8/29 ~ 8/30	2.8	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[1-2] Dichlorobiphenyls/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :0.5 Quantification limit :1.5

	stats
Geometric mean	36
Median	38
Maximum	250
Minimum	8.7

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	12	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	8.7	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	19	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	42	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	50	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	36	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	30	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	64	MV
	9	Chichijima Island	10/6 ~ 10/13	12	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	84	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	54	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	58	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	59	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	40	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	72	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	30	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	35	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	52	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	20	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	21	HV

Local	M.	Manifernal altera	Warm	season	A :1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
		0.1.71	9/19 ~ 9/20	56	
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21		HV
		Annex(Osaka City)	9/21 ~ 9/22	1	
			8/29 ~ 8/30		
Hyogo Pref. 2	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	29	HV
	22	Hyogo Prefectural Environmental Research Center(Robe City)		. 29	пν
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	250	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	120	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	. 14	HV
Similane 1 ici.	23	Oki National Acid Rain Observatory (Okinosinina Town)	9/28 ~ 9/29	. 17	11 V
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	53	HV
			9/14 ~ 9/15		
		Vama ayahi Duafaataysal Instituta of Duhlia Haalth and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and		40	MV
S		Environment(Yamaguchi City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)	2/12 2/20	58	MV
28	20	Tragi Wuseum(Tragi City)		36	IVI V
			0/26 0/27		
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	26	HV
		Environmental serences contex (Tenasimila city)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		35	MV
		rangumu ri toto tuniar rueno e miniming reen(runumusu eng)			
			8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	71	HV
Elillie I Ici.			8/24 ~ 8/25	. /1	11 V
E 1 1 B C	22	0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0	9/25 ~ 9/26		****
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	52	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		29	MV
			10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	17	HV
reamannon i ici.	54	Environmental Science(Udo City)		1 1	11 4
			10/5 ~ 10/6	 	
M. 1:B 0	2.5	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12	16	167
Miyazaki Pref.	35	Environment(Miyazaki City)		16	MV
		, , , , , , , , , , , , , , , , , , , ,			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30]	
Kagoshima Pref.	36		8/30 ~ 8/31	38	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	1	
			8/28 ~ 8/29	 	
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	11	HV
Okinawa Pref.	31	Cape redo(Kuingaini vinage)		11	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-3] Trichlorobiphenyls/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :0.6 Quantification limit :1.8

	stats
Geometric mean	31
Median	32
Maximum	1,500
Minimum	5.9

Local	No	Monitored sites	Warm	season	Air sampler
communities	110	Montoled sites	Sampling dates	Measured value	7 III Samplei
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	10	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	5.9	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	8.4	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	27	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	32	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	33	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	28	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	73	MV
	9	Chichijima Island	10/6 ~ 10/13	7.8	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	98	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	64	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	78	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	58	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	23	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	34	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	34	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	32	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	45	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	15	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	23	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	140	Workored Sites	Sampling dates	Measured value	All sampler
		Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20		
Osaka Pref.	21		9/20 ~ 9/21	110	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	28	HV
, -8		, -g(8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	1,500	HV
Robe City	23	Robe City Government Bunding(Robe City)	9/13 9/14	1,500	11 V
N D	24	Touri Air Oralita Manitarina Station (Tauri Cita)	8/22 ~ 8/23	50	1177
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	59	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	13	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	36	HV
•			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	3,13 3,20	35	MV
r umagaem r ren	27	Environment(Yamaguchi City)		33	141 4
			9/19 ~ 9/26		
	20	H .M (H .C.()	9/19 - 9/20	70	107
	28	Hagi Museum(Hagi City)	72	MV	
			0/0/- 0/07		
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	27	HV
			9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		30	MV
		Elima Professoral Community Name Project	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	35	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	39	HV
T untworks T T uni	32	and the second s	9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	9/19 - 9/20	35	MV
Saga Prei.	33	Saga Prefectural Environmental Research Center(Saga City)		33	IVI V
			10/2 10/4		
77	2.	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	10	****
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	18	HV
		` "	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		7.2	MV
		Environment (wilyazaki City)			
		Vaccahima Duefactural Institute for Essission and 1 D	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	25	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	8.0	HV
Okinawa 1 ICI.	31	capo 11000(120111guilli villuge)	8/30 ~ 8/31	0.0	11 4
			0/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[1-4] Tetrachlorobiphenyls/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :0.7 Quantification limit :2.1

	stats
Geometric mean	22
Median	20
Maximum	1,300
Minimum	2.9

Local	NI.	Maniferralaites	Warm	season	A :1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	9.5	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	4.5	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	5.7	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	16	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	12	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	19	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	16	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	49	MV
	9	Chichijima Island	10/6 ~ 10/13	2.9	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	64	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	48	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	44	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	30	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	14	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	30	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	24	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	20	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	30	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	11	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	14	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	An sampler
		0.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	190	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	26	HV
, -8		, -g(8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	1,300	HV
Robe City	23	Robe City Government Bunding(Robe City)	9/13 9/14	1,500	11 V
N D	24	Touri Air Oralita Manitarina Station (Tauri Cita)	8/22 ~ 8/23	4.4	1137
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	44	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	7.9	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	34	HV
•			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	3,13 3,20	40	MV
r umagaem r ren	27	Environment(Yamaguchi City)		10	111 1
			9/19 ~ 9/26		
	20	H .M (H .C.()	9/19 - 9/20	20	N 67
	28	Hagi Museum(Hagi City)	39	39	MV
			0/0/- 0/07		
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27	. 10	
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	18	HV
			9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		22	MV
		Elima Park at and Community Name Parismal	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	34	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	34	HV
T untworks T T uni	32	and the second s	9/27 ~ 9/28	٥.	
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	9/19 9/20	16	MV
Saga Fici.	33	Saga Frerectural Environmental Research Center(Saga City)		10	1V1 V
			10/2 - 10/4		
IZ . D 0	2.4	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	1.4	1117
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	14	HV
		` "/	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		5.5	MV
		Zara amilon (ini juzuki Gitj)			
Kagoshima Pref.		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30	20	
	36		8/30 ~ 8/31		HV
=		and Public Health(Kagoshima City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	3.4	HV
Skiilawa i ici.	51	Capt 11240(12411gaini + 1114ge)	8/30 ~ 8/31	5.7	11.4
			0/30 - 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[1-4-1] 3,3',4,4'-Tetrachlorobiphenyl (#77)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :0.008

Quantification limit :0.021

	stats
Geometric mean	0.14
Median	0.13
Maximum	1.3
Minimum	0.02

Local	2.7		Warm	season	
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	0.055	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.062	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.049	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.097	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	0.072	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.11	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.084	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.23	MV
	9	Chichijima Island	10/6 ~ 10/13	0.027	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.35	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.31	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.36	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	$9/19 \sim 9/20$ $9/20 \sim 9/21$ $9/21 \sim 9/22$	0.22	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.070	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.21	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.17	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.12	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.25	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.077	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	0.081	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	No	Monitored sites	Sampling dates	Measured value	All sampler
Osaka Pref.		0.1 1.4 P.C. 4 P. T. P. T. 2	9/19 ~ 9/20	0.99	
	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21		HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Llyona Drof	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.18	HV
Hyogo Pref.	22	Tryogo i refecturar Environmentar Research Center(Robe City)		0.16	11 V
			8/31 ~ 9/1		
TT 1 G		r t at a r t at)	9/12 ~ 9/13		****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	1.3	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.27	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	0.066	HV
		on runeau ricia rum deservutery (dimesimia revin)	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.24	HV
Till Oslillia City	20	Throshinia City Kokutaiji Julioi Tilgii School(Tiiroshinia City)		0.24	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		0.24	MV
		Environment (Tamagueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.24	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	0.11	HV
TORUSHIHIA TTCI.	2)		9/28 ~ 9/29	0.11	11 V
	20	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	9/27 ~ 10/4	0.13	207
Kagawa Pref.	30				MV
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	0.23	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
	32	Omuta City Government Building(Omuta City)	9/25 ~ 9/26	0.26	HV
Fukuoka Pref.			9/26 ~ 9/27		
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	2112 2120	0.087	MV
Saga I ICI.	33	33 Saga i refecturar Environmentar Research Center(Saga City)		0.067	1V1 V
			10/3 ~ 10/4		
77	2.	Kumamoto Prefectural Institute of Public Health and		0.000	****
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.089	HV
		` ",	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City)	9/5 ~ 9/12		
Miyazaki Pref.	35			0.029	MV
		Environment(whyazaki City)			
	36	Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City)	8/29 ~ 8/30	0.19	HV
Kagoshima Pref.			8/30 ~ 8/31		
			8/31 ~ 9/1		
			8/28 ~ 8/29		
Olrinari D. C	27	Cape Hedo(Kunigami Village)		tr(0.020)	HV
Okinawa Pref.	37		8/29 ~ 8/30		
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

 $⁽Note\ 4)\ tr: detection\ limit\ value\ and\ more,\ less\ than\ Quantification\ limit\ value.$

[1-4-2] 3,4,4',5-Tetrachlorobiphenyl (#81)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):32/37(Missing value:0) Detection Frequency (sample):32/37(Missing value:0)

Detection limit :0.01 Quantification limit :0.03

	stats
Geometric mean	tr(0.01)
Median	tr(0.01)
Maximum	0.1
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			$10/10 \sim 10/17$	ivicasured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 - 10/1/	tr(0.01)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	tr(0.01)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.01)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.01)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.01)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	tr(0.01)	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.03	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.02)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.03	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.03	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.01)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.02)	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	tr(0.01)	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.01)	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.02)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.01)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.01)	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	140	Workored Sites	Sampling dates	Measured value	All sampler
		Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20		
Osaka Pref.	21	Ç, Ç	9/20 ~ 9/21	tr(0.02)	HV
		Annex(Osaka City)	9/21 ~ 9/22	, ,	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.04	HV
, -8		, -g(8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.10	HV
Robe City	23	Robe City Government Bunding(Robe City)	9/13 9/14	0.10	11 V
N. D. C	2.4	T IAI O III M II I GUI (T I GU)	8/22 ~ 8/23	. (0.02)	TTT /
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	tr(0.02)	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(0.01)	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	tr(0.02)	HV
·			9/14 ~ 9/15	, ,	
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	3,13 3,20	tr(0.01)	MV
1 umagaem 1 Ten	21	Environment(Yamaguchi City)		(****)	112 1
			9/19 ~ 9/26		
	28	Hazi Myanym (Hazi City)	9/19 9/20	tr(0.01)	MV
	20	Hagi Museum(Hagi City)		u(0.01)	MV
			0/26 0/27		
T 1 1: D C	20	Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27	. (0.01)	****
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	tr(0.01)	HV
		` */	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		tr(0.01)	MV
		Ehime Prefectural Government Nanyo Regional	8/22 ~ 8/23		
Ehime Pref.	31	Office(Uwajima City)	8/23 ~ 8/24	tr(0.01)	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	tr(0.02)	HV
			9/27 ~ 9/28	, ,	
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.01)	MV
1.6		g(g,)		-(***-)	
		+	10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	tr(0.02)	HV
12011101111010 I ICI.	54	Environmental Science(Udo City)	10/4 10/5	u(0.02)	11 V
Missagg 1-: Dane	35	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12	1	M37
Miyazaki Pref.	33	Environment(Miyazaki City)		nd	MV
			0/00 0/00		
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	tr(0.02)	HV
			8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[1-5] Pentachlorobiphenyls/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	11
Median	9.9
Maximum	250
Minimum	0.9

Local	No	Monitored sites	Warm season		Air sampler
communities	110	Wontored Sites	Sampling dates	Measured value	- III sumplet
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	13	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	3.4	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	3.6	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	8.9	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	6.0	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	8.4	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	7.2	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	22	MV
	9	Chichijima Island	10/6 ~ 10/13	1.1	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	28	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	28	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	23	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	17	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	6.0	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	25	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	15	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	7.6	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	16	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	6.6	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	7.7	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	No	iviointorea sues	Sampling dates	Measured value	Air sampier
		Onder Initiat Professional Community Profiling Profiling 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	250	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	16	HV
Tiyogo Tion.		Tryogo i refectural Environmental Research Center(Robe City)	8/31 ~ 9/1	10	11 (
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 9/13	220	HV
Kobe City	23	Robe City Government Building(Robe City)		220	11 V
			9/14 ~ 9/15		
N. D. C	2.4	T : A: O I': M :: S(:: (T :: G':)	8/22 ~ 8/23	22	1117
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	23	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	3.0	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	6 Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	32	HV
·			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	J/17 J/20	9.2	MV
r amaguem r rei.	21	Environment(Yamaguchi City)		7.2	141 4
			9/19 ~ 9/26		
	20	Hari Marana (Hari Cita)	9/19 - 9/20	8.6	M
	28	Hagi Museum(Hagi City)		8.0	MV
			0/0/ 0/07		
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	13	HV
			9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		13	MV
		Ehima Bushattural Cayammant Nanya Basianal	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	27	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	23	HV
1 4114-0144 1 1 0 1 1	J_	and the second s	9/27 ~ 9/28	25	
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	9/19 9/20	6.3	MV
Saga Fici.	33	Saga Frerectural Environmental Research Center(Saga City)		0.3	IVI V
			10/2 - 10/4		
IZ A D C	2.4	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	(2)	1117
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	6.3	HV
		` "/	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		2.7	MV
		Zara amion (ini juzuki Girj)			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36		8/30 ~ 8/31	9.9	HV
=		and Public Health(Kagoshima City)	8/31 ~ 9/1	1	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	0.9	HV
Okinawa 1101.	51	Capt 11240(12411gaini + 1114ge)	8/30 ~ 8/31	".,	11.4
			0/30 - 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

The Environmental Monitoring 2017

[1-5-1] 2,3,3',4,4'-Pentachlorobiphenyl (#105)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	0.32
Median	0.35
Maximum	6.3
Minimum	0.03

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	0.25	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.06	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.09	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.24	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	0.14	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.21	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.16	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.57	MV
	9	Chichijima Island	10/6 ~ 10/13	0.05	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.83	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.98	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.72	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.55	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.14	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.53	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.42	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.21	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.66	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.16	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	0.19	HV

Local	Na	Monitored sites	Warm	season	A in somethin
communities	No	ivionitored sites	Sampling dates	Measured value	Air sampler
		0.1.1.4.0.6.4.10.4.0.11.0.11.0.11.0.11	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	6.3	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.43	HV
Tryogo Trei.		Tryogo i refectural Environmental Research Center(Robe City)	8/31 ~ 9/1	0.15	11 ,
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 9/13	3.4	HV
Kobe City	23	Robe City Government Building(Robe City)		3.4	11 V
			9/14 ~ 9/15		
N. D. C	2.4	To the Oute Mark to the Great (To the City)	8/22 ~ 8/23	0.72	****
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.72	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	0.12	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.81	HV
			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	5/15 5/20	0.48	MV
1 amaguem 1 ici.	21	Environment(Yamaguchi City)		0.40	1V1 V
			9/19 ~ 9/26		
	20	H :M (H :G')	9/19 ~ 9/20	0.40	3.67
	28	Hagi Museum(Hagi City)		0.48	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	0.38	HV
		Environmental selences center (Tokasinina city)	9/28 ~ 9/29		
			$9/27 \sim 10/4$		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.31	MV
		Elima Burfaston I Communitation Design 1	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	0.69	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.72	HV
i ukuoku i ici.	32	omata ony dovernment Banding(omata ony)	9/27 ~ 9/28	0.72	111
			9/19 ~ 9/26		
Saga Pref.	22	Sana Brafantiyal Environmental Bassarah Contan(Sana City)	9/19 ~ 9/20	0.10	MV
Saga Prei.	33	Saga Prefectural Environmental Research Center(Saga City)		0.18	MV
			10/2 10/4		
	a :	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	0.50	****
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.20	HV
		` "	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		0.06	MV
		Livitoiniiciic(iviiyazaki City)			
		Vaccahima Profestural Institute for Environmental D	8/29 ~ 8/30		<u> </u>
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	0.35	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	1	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	tr(0.03)	HV
Okinawa 1 ICI.	31	capo 11000(120111guilli villuge)	8/30 ~ 8/31	u(0.03)	11 4
			0/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

[1-5-2] 2,3,4,4',5-Pentachlorobiphenyl (#114)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):34/37(Missing value:0) Detection Frequency (sample):34/37(Missing value:0)

	stats
Geometric mean	0.032
Median	0.032
Maximum	0.58
Minimum	nd

Local	N	M 2 12	Warm	season	A: 1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	0.026	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.010)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.010)	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.020	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.015)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.030	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.020	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.062	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.086	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.089	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.075	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.055	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.020	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.050	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.039	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.026	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.053	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.020	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	0.020	HV

Local			Warm	season	
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
			9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	0.58	HV
334444 1 1 1 1 1		Annex(Osaka City)	9/21 ~ 9/22	0.00	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyaga Profestural Environmental Passarah Center(Vaha City)	8/30 ~ 8/31	0.036	HV
Hyogo Fiel.	22	Hyogo Prefectural Environmental Research Center(Kobe City)		0.030	11 V
			8/31 ~ 9/1		
W 1 G':	22	W. L. Gir. G	9/12 ~ 9/13	0.22	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.32	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.070	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(0.012)	HV
			9/28 ~ 9/29	` ′	
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.079	HV
Throsinna City	20	Timosinina City Kokutaiji Junioi Tiigii School(Timosinina City)	9/14 ~ 9/15	0.077	11 V
	2.5	Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		0.037	MV
		(3 7)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.037	MV
		T 1 1' D C (1D 11' II 14 D) (' 1 1	9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	0.032	HV
		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	<i>3/27</i> 10/1	0.032	MV
Ragawa 1 Ici.	30	Ragawa i refecturar i uone Swimming i ooi(Takamatsu City)		0.032	141 4
			8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	0.056	1137
Enime Prei.					HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.065	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		0.022	MV
		TV D C IV CD IV IV IV	10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	0.023	HV
		Environmental Science(Udo City)	10/5 ~ 10/6	***-*	
			9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand	113 7/14	nd	MV
wiiyazaki Fici.	33	Environment(Miyazaki City)		iiu	1 V1 V
			0/20 0/20		
	2 -	Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30	0.050	****
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	0.038	HV
			8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
		1(8/30 ~ 8/31	j	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

[1-5-3] 2,3',4,4'-5-Pentachlorobiphenyl (#118)/air (pg/m3)

Monitored year :2017

Detection Frequency (site) :37/37(Missing value :0) Detection Frequency (sample) :37/37(Missing value :0)

	stats
Geometric mean	0.87
Median	0.88
Maximum	21
Minimum	0.06

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Wicasurcu value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 10/17	0.88	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.18	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.24	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.75	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	0.40	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.59	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.49	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	1.6	MV
	9	Chichijima Island	10/6 ~ 10/13	0.10	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	2.2	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	2.4	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	2.0	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	1.5	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.38	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.7	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	1.2	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.57	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	1.6	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.46	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	0.57	HV

Local	Na	Monitoned sites	Warm	season	A in governing
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
		O I I I P C + I C + P TF P TF A	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	21	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	1.3	HV
Tryogo Tici.	22	Tryogo i refecturar Environmentar Research Center(Robe City)		1.5	11 V
			8/31 ~ 9/1		
TT 1 G		r t at a r t at)	9/12 ~ 9/13		****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	11	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	2.0	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	0.26	HV
		,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/12 9/13	2.7	HV
Throsinina City	20	Timosinina City Kokutaiji Juniol Tiigii School(Tiilosiliiia City)		4.1	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		0.95	MV
		Environment (Tuningueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.88	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	1.1	HV
101140111114 11411	_,	Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	-	
			9/27 ~ 10/4		
V D f	20	V Doub Doublin Coming to Doubling City	9/2/~10/4	0.06	M
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.96	MV
			0/00 0/00		
		Ehime Prefectural Government Nanyo Regional	8/22 ~ 8/23	- 20	
Ehime Pref.	31	Office(Uwajima City)	8/23 ~ 8/24	2.0	HV
		omes(o wajima ony)	8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	2.0	HV
			9/27 ~ 9/28]	
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		0.47	MV
2	23	Saga Fretectural Environmental Research Center(Saga City)		V.17	1.1 1
			10/3 ~ 10/4		
Variant D. C	2.4	Kumamoto Prefectural Institute of Public Health and		0.55	1137
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.55	HV
			10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		0.19	MV
		Zara amilon (ini juzuki Gitj)			
		Vaccahima Profestural Institute for Environmental D	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	0.86	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	1	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	0.06	HV
OKIIIAWA FICI.	31	Cape Hedo(Kuingaini vinage)		0.00	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

The Environmental Monitoring 2017

[1-5-4] 2',3,4,4',5-Pentachlorobiphenyl (#123)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):31/37(Missing value:0) Detection Frequency (sample):31/37(Missing value:0)

	stats
Geometric mean	0.022
Median	0.024
Maximum	0.39
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(0.018)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	tr(0.017)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.013)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.017)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.017)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.036	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.056	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.052	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.051	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.041	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.012)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.041	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.029	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.016)	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.037	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.012)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.016)	HV

Local			Warm	season	
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
			9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	0.39	HV
334444 1 1 1 1 1		Annex(Osaka City)	9/21 ~ 9/22	0.05	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyaga Profestural Environmental Passarah Center(Vaha City)	8/30 ~ 8/31	0.029	HV
Hyogo Fiel.	22	Hyogo Prefectural Environmental Research Center(Kobe City)		0.029	11 V
			8/31 ~ 9/1		
T 1 G':	22	W. L. Civ. C. (P. 111) (W. L. Civ.)	9/12 ~ 9/13	0.22	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.23	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.047	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
		,	9/28 ~ 9/29		
			9/12 ~ 9/13	-	
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.050	HV
Throsinna City	20	Throsinna City Rokamiji samoi riigii school(riirosinna City)	9/14 ~ 9/15	0.030	11 V
			9/14 ~ 9/13		
1:00	27	Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	0.020	207
Yamaguchi Pref.	27	Environment(Yamaguchi City)		0.029	MV
		(2 1)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.025	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29		9/27 ~ 9/28	0.025	HV
		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.024	MV
		ragawa rrotectarar r done owinining root (rakanatsa City)		0.02.	
			8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	0.047	HV
Ellillic I Ici.			8/24 ~ 8/25		11 V
			9/25 ~ 9/26		
F11 D £	22	Owner City Comment Prolitics (Owner City)		0.044	1137
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.044	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.015)	MV
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.023	HV
		Environmental Science (Odo City)	10/5 ~ 10/6		
		M. T. D. C. a. II. C. a. C. D. IV. IV. III. I	9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand		nd	MV
		Environment(Miyazaki City)			
			8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	0.022	HV
	20	and Public Health(Kagoshima City)	8/31 ~ 9/1	0.022	11 V
			8/28 ~ 8/29		
Olsinson B. C	27	Constitution (Vinicani Village)		1	1177
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[1-5-5] 3,3',4,4',5-Pentachlorobiphenyl (#126)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):24/37(Missing value:0) Detection Frequency (sample):24/37(Missing value:0)

	stats
Geometric mean	tr(0.010)
Median	tr(0.011)
Maximum	0.048
Minimum	nd

Local	No	Monitored sites		season	Air sampler
communities	110	Montored sites	Sampling dates	Measured value	7 III Samplei
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(0.012)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.014)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.013)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	tr(0.017)	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.031	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.015)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	tr(0.021)	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.029	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.009)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.015)	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	tr(0.015)	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.014)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	All Sampler
		0.1 1.4 P.C. 4 P.T. P.T. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	0.048	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Pessageh Center (Vohe City)	8/30 ~ 8/31	tr(0.010)	HV
Tryogo Tici.	22	Hyogo Prefectural Environmental Research Center(Kobe City)		11(0.010)	11 v
			8/31 ~ 9/1		
** 1 60		r t at a r t at)	9/12 ~ 9/13	0.025	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.035	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	tr(0.018)	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
		, ,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	tr(0.012)	HV
Till Osiililia City	20	Throshinia City Kokutaiji Julioi Trigli School(Throshinia City)		11(0.012)	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		nd	MV
		Environment (Tuningueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		nd	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	tr(0.010)	HV
101140111114 11411		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	(0.010)	
			9/27 ~ 10/4		
V D C	20	V Doub Doublin Coming to Doubling City	9/2/~10/4	±-(0,000)	MV
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		tr(0.009)	MV
			0/00 0/00		
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	tr(0.015)	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.028	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	/·	tr(0.010)	MV
2.5. 1101.	23			(0.010)	2.2 1
			10/3 ~ 10/4		
Variant D. C	2.4	Kumamoto Prefectural Institute of Public Health and		t=(0.011)	1137
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	tr(0.011)	HV
		. • .	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		nd	MV
		Zii ii oliiilolii (ivii yuzuki Oliy)			
		Vacashina Duafactural Institute for Eurice and 1 D	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	tr(0.022)	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	` ' '	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Okinawa Pref.	31	Cape Hedo(Kunigaini vinage)		iiu	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[1-6] Hexachlorobiphenyls/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	4.3
Median	4.0
Maximum	78
Minimum	0.37

Local	No	Monitored sites		season	Air sampler
communities	110	iviolitored sites	Sampling dates	Measured value	An samplei
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	4.0	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.1	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.3	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	3.2	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	3.4	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	2.8	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	2.3	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	6.9	MV
	9	Chichijima Island	10/6 ~ 10/13	0.39	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	9.9	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	9.7	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	9.5	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	7.5	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	2.3	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	7.4	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	4.8	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	3.3	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	6.8	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	2.4	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	2.6	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	All sampler
		0.1 1.4 P.C. 4 P.T. P.T. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	78	HV
		Annex(Osaka City)	9/21 ~ 9/22	1	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	5.9	HV
Tryogo Tici.	22	Hyogo Prefectural Environmental Research Center(Robe City)		3.9	11 V
			8/31 ~ 9/1		
** 1 G':		r t at a r t at)	9/12 ~ 9/13	.	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	50	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	11	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	1.2	HV
		,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	11	HV
Throsinna City	20	Throshinia City Kokutaiji Julioi Tiigli School(Tiiroshinia City)		11	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		3.3	MV
		Environment (Tuningueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		2.9	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	5.6	HV
101140111114 11411		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	-	
			9/27 ~ 10/4		
V D f	20	V Doub Doublin Coming to Doubling City	9/2/~10/4	4.0	M
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		4.8	MV
			0/00 0/00		
		Ehime Prefectural Government Nanyo Regional	8/22 ~ 8/23	_	
Ehime Pref.	31	Office(Uwajima City)	8/23 ~ 8/24	11	HV
		omes(o wajima ony)	8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	34	HV
			9/27 ~ 9/28	1	
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		2.3	MV
2	23	Saga Fretectural Environmental Research Center(Saga City)			1.1 1
			10/3 ~ 10/4		
Variant D. C	2.4	Kumamoto Prefectural Institute of Public Health and		2.0	1137
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	2.6	HV
		. • .	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		1.2	MV
		Zii ii oiiiii oii (ivii yuzuki Oity)			
		Vacashina Duafactural Institute for Eurice and 1 D	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	5.6	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	1	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	0.37	HV
OKIIIAWA FICI.	31	Cape Hedo(Kuingaini vinage)		0.57	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[1-6-1] 2,3,3',4,4',5-Hexachlorobiphenyl (#156)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):31/37(Missing value:0) Detection Frequency (sample):31/37(Missing value:0)

	stats
Geometric mean	0.05
Median	0.05
Maximum	0.83
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			$10/10 \sim 10/17$	ivicasured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 10/17	tr(0.04)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	tr(0.04)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.03)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.03)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.03)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.08	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.11	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.17	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.10	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.10	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.02)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.07	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.05	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.03)	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.10	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.03)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.03)	HV

Local			Warm	season	
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
		O I I I P C I I C I P TI P TI O	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	0.83	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.06	HV
Tryogo Tier.	22	Tryogo i refecturar Environmentar Research Center(Robe City)	8/31 ~ 9/1	0.00	11 V
			9/12 ~ 9/13		
W 1 C'	22	K 1 C' C (P '11' (K 1 C'))		0.26	1177
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.36	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.13	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.10	HV
Timesimina eng	20	Theolimia city Holamaji valitet High someoi(Hissimia city)	9/14 ~ 9/15	0110	
			9/19 ~ 9/26		
V	27	Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/20	0.06	MV
Yamaguchi Pref.	27	Environment(Yamaguchi City)		0.06	MV
		, , ,	0.11.0		
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.06	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29		9/27 ~ 9/28	0.05	HV
		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.05	MV
6		Tangu wa 119100tatar 1 aono o williaming 1 oo (1 anamanou o o o o			
			8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	0.13	HV
Eminic 1 fer.			8/24 ~ 8/25		11.
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omysta City Covernment Building (Omysta City)		0.26	HV
rukuoka Piei.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.20	ПΥ
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.03)	MV
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.05	HV
		Environmental science (odo city)	10/5 ~ 10/6		
		Missonald Bushastanal Institute for Bold: II-Id-od	9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand		nd	MV
		Environment(Miyazaki City)			
			8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	0.06	HV
	20	and Public Health(Kagoshima City)	8/31 ~ 9/1	0.50	пν
			8/28 ~ 8/29		
Olrinor DC	27	Come Hada(Vymicami Village)		1	1137
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[1-6-2] 2,3,3',4,4',5'-Hexachlorobiphenyl (#157)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):31/37(Missing value:0) Detection Frequency (sample):31/37(Missing value:0)

	stats
Geometric mean	tr(0.02)
Median	tr(0.01)
Maximum	0.2
Minimum	nd

Local communities	No	Monitored sites	Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	ivicasured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 10/17	tr(0.01)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	tr(0.01)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.01)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.01)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.01)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	tr(0.03)	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.04	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.04	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.04	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.03)	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.01)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.02)	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	tr(0.01)	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.01)	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.03)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.01)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.01)	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	All Sampler
		Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20		
Osaka Pref.	21	۵, و	9/20 ~ 9/21	0.20	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	P. Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	tr(0.02)	HV
			8/31 ~ 9/1	-(***-)	
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.11	HV
Rooc City	23	Robe City Government Bunding(Robe City)	9/14 ~ 9/15	0.11	11 V
N. D. C	2.4	T IAI O III M II I GUI (T I GI	8/22 ~ 8/23	0.04	T T T 7
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.04	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	tr(0.03)	HV
•			9/14 ~ 9/15	, ,	
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	7/17 7/20	tr(0.02)	MV
1 amaguem 1 ici.	21	Environment(Yamaguchi City)		u(0.02)	1V1 V
			9/19 ~ 9/26		
	20	H :M (H :G')	9/19 ~ 9/26	. (0.02)	1.67
	28	Hagi Museum(Hagi City)		tr(0.02)	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	tr(0.02)	HV
		Environmental selences center (Tokasinina city)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		tr(0.01)	MV
		Elima Park at and Community Name Parismal	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	0.06	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.14	HV
i unuona i ioi.	J-2	2 straing(ontain only)	9/27 ~ 9/28	0.11	-11,
			9/19 ~ 9/26		
Saga Pref.	22	Saga Drafactural Environmental Descende Contan/Saga City	9/19 9/20	tm(0,01)	MX
Saga Prei.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.01)	MV
			10/2 10/4		
	a :	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	tr(0.01)	HV
		` "	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		nd	MV
		Livitoiniiciic(iviiyazaki City)			
		Vaccahima Duefactural Institute for Essission and 1 D	8/29 ~ 8/30	_	
Kagoshima Pref.	36	6 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City)	8/30 ~ 8/31	tr(0.03)	HV
			8/31 ~ 9/1	, ,	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Okinawa 1 ICI.	31	Capo 11000(120111guilli villuge)	8/30 ~ 8/31	IIQ.	11 V
			0/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[1-6-3] 2,3',4,4',5,5'-Hexachlorobiphenyl (#167)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):32/37(Missing value:0) Detection Frequency (sample):32/37(Missing value:0)

	stats
Geometric mean	0.023
Median	tr(0.021)
Maximum	0.36
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 - 10/17	tr(0.019)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	tr(0.016)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.014)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.017)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.017)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.040	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.058	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.066	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.048	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.045	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.010)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.034	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.027	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.015)	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.043	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.012)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.012)	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	All Sampler
		0.1 1.4 P.C. 4 P.T. P.T. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	0.36	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	2 Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.028	HV
Hyogo Fiel.	22	Tryogo Frerecturar Environmentar Research Center(Robe City)		0.028	11 V
			8/31 ~ 9/1		
** 1 60		r t at a r t at)	9/12 ~ 9/13	0.10	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.19	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.050	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
		, ,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.044	HV
Till Osiililia City	20	Throshinia City Kokutaiji Julioi Trigli School(Throshinia City)		0.044	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	(0.000)	
Yamaguchi Pref.	27	Environment(Yamaguchi City)		tr(0.022)	MV
		Environment (Tuningueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		tr(0.021)	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	0.026	HV
101140111114 11411		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
V D C	20	V Doub Doublin Coming to Doubling City	9/2/~10/4	£-(0,021)	MV
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		tr(0.021)	MV
			0/00 0/00		
		Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	0.058	
Ehime Pref.	31		8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.11	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.015)	MV
2.5. 1101.	23			(0.015)	1.1 1
			10/3 ~ 10/4		
Variant D. C	2.4	Kumamoto Prefectural Institute of Public Health and		t(0,020)	1137
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	tr(0.020)	HV
		. • .	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		tr(0.010)	MV
		Zii ii oiiiii oii (ivii yuzuki Oity)			
		Vacashina Duafactural Institute for Euripe and In	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	0.031	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Okiliawa Fiel.	31	Cape Hedo(Kuingaini vinage)		iiu	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

 $⁽Note\ 3)\ HV: High\ Volume\ Air\ Sampler\ ,\ MV:\ Medium\ Volume\ Air\ Sampler$

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[1-6-4] 3,3',4,4',5,5'-Hexachlorobiphenyl (#169)/air (pg/m3)

Monitored year :2017

Detection Frequency (site) :1/37(Missing value :0)
Detection Frequency (sample) :1/37(Missing value :0)

	stats
Geometric mean	nd
Median	nd
Maximum	0.008
Minimum	nd

Local	No	Monitored sites		season Measured value	Air sampler
communities			Sampling dates 10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	nd	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	nd	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	nd	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.008)	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	nd	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	nd	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	nd	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local	No	Monitored sites		season	Air sampler
communities	110	Montored sites	Sampling dates	Measured value	7 m sampler
		Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20		
Osaka Pref.	21	E, E	9/20 ~ 9/21	nd	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	nd	HV
11,080 11011		lijogo i iotootului Ziiviioiliiliilii iotootuloi eenisi(izees enij)	8/31 ~ 9/1		
			9/12 ~ 9/13		
Vala City	22	Kobe City Government Building(Kobe City)	9/12 ~ 9/13	4	1137
Kobe City	23	Robe City Government Building(Robe City)		nd	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	nd	HV
Tin osinina City	20	Throshina City Rokamiji samoi Tiigii seneoi(Tiroshina City)	9/14 ~ 9/15	110	11.
			9/14 ~ 9/13		
. 1:D C	27	Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	,	3.677
Yamaguchi Pref.	27	Environment(Yamaguchi City)		nd	MV
		(3 7)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		nd	MV
		T 1 1' D C (1D 11' II 14 D) (' 1 1	9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	nd	HV
		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30 Kaga	Vacayya Prafactural Public Swimming Pool/Takamatay City))/2/ 10/ 4	nd	MV
Kagawa 1 ICI.		Kagawa Prefectural Public Swimming Pool(Takamatsu City)		IIG	IVI V
			8/22 ~ 8/23		
E1: D C	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)		1	1117
Ehime Pref.			8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		nd	MV
		Suga Protestatui Environmentai reseaten center(Suga City)			
			10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	nd	HV
1xamamow 1 lel.	37	Environmental Science(Udo City)	10/4 10/5	iid.	11 V
M: 1:B 0	2.5	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12	,	107
Miyazaki Pref.	35	Environment(Miyazaki City)		nd	MV
		` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36		8/30 ~ 8/31	nd	HV
-		and Public Health(Kagoshima City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
okinawa 1101.	31	cupe Head(Ixamgami vinage)		iid.	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[1-7] Heptachlorobiphenyls/air (pg/m3)

Monitored year :2017

Detection Frequency (site) :37/37(Missing value :0) Detection Frequency (sample):37/37(Missing value:0) Detection limit:0.05

Quantification limit :0.14

	stats
Geometric mean	0.96
Median	0.91
Maximum	21
Minimum	0.11

Local	No Monitored sites		Warm season		A :1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	0.59	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.16	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.34	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.54	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	1.3	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.48	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.42	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	1.4	MV
	9	Chichijima Island	10/6 ~ 10/13	tr(0.11)	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	2.0	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	1.8	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	2.4	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	1.7	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.60	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.77	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.60	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.99	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	1.8	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.52	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	0.37	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Monitored sites	Sampling dates	Measured value	Air sampier
		O I I I D C . I C . D TT D TT A	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	8.5	HV
		Annex(Osaka City)	9/21 ~ 9/22	1	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.99	HV
TIYOGO FICI.	22			0.99	11 V
			8/31 ~ 9/1		
** 1 60		r t at a r t at)	9/12 ~ 9/13	0.2	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	8.3	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	2.2	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	0.30	HV
		,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutajii Junior High School (Hiroshima City)	9/12 9/13	1.8	HV
Throsinna City	20	Hiroshima City Kokutaiji Junior High School(Hiroshima City)		1.0	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		0.97	MV
		Environment (Tuningueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.91	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	1.2	HV
TORUSHINIA TTOI.	2)	Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	1.2	11 ,
			9/27 ~ 10/4		
V D C	20	V Doub Doublin Coming to Doubling City	9/2/~10/4	0.00	MV
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.89	MV
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	5.5	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	21	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	2.12 2.20	0.53	MV
5454 I 101.	55	Saga 112100talai Environmentai Rescaron Contel(Saga City)		0.55	111 1
			10/3 ~ 10/4		
V (D C	2.4	Kumamoto Prefectural Institute of Public Health and		0.47	1737
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.47	HV
		` "/	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		0.31	MV
	<u></u>	Environment (1911) azaki City)		<u> </u>	
		Vacashina Duafactural Institute for Eurice and 1 D	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	2.1	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	j	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	tr(0.13)	HV
Okinawa Pref.	31	Cape Hedo(Kunigaini vinage)		u(0.13)	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

The Environmental Monitoring 2017

[1-7-1] 2,2',3,3',4,4',5-Heptachlorobiphenyl (#170)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	0.08
Median	0.07
Maximum	1.3
Minimum	0.01

Local	No	Monitored sites		season Measured value	Air sampler
communities			Sampling dates 10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	0.04	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.01)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.03	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.04	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	0.09	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.04	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.04	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.11	MV
	9	Chichijima Island	10/6 ~ 10/13	tr(0.02)	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.15	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.19	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.20	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.08	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.04	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.06	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.05	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.06	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.15	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.04	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	0.03	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	110	Monitored Sites	Sampling dates	Measured value	An samplei
		Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20		
Osaka Pref.	21		9/20 ~ 9/21	0.67	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.08	HV
11) 080 11011		, -g(8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.52	HV
Robe City	23	Robe City Government Bunding(Robe City)	9/13 9/14	0.32	11 V
N D	24	Touri Air Oralita Manifestica Station (Touri Cita)	8/22 ~ 8/23	0.16	1137
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.16	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	0.03	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.13	HV
•			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	3,13 3,20	0.08	MV
r umagaem r ren	21	Environment(Yamaguchi City)		0.00	111 1
			9/19 ~ 9/26		
	20	H .M (H .C.()	9/19 - 9/20	0.00	107
	28	Hagi Museum(Hagi City)		0.09	MV
			0/0/- 0/07		
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	0.10	HV
			9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.07	MV
		Ehima Profestival Cavamenant Nanya Pagianal	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	0.69	HV
			8/24 ~ 8/25	1	
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	1.3	HV
i unuona i ioi.	J-2	2 straing(ontain only)	9/27 ~ 9/28	1.5	-11
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	2/12 - 3/20	0.05	MV
Saga Fici.	33	Saga i refectural Environmental Research Center(Saga City)		0.03	1V1 V
			10/3 ~ 10/4		
IZ A D C	2.4	Kumamoto Prefectural Institute of Public Health and		0.05	****
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.05	HV
		` "/	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		tr(0.02)	MV
		Entrollinon (My death Ony)			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36		8/30 ~ 8/31	0.16	HV
=		and Public Health(Kagoshima City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	tr(0.01)	HV
Skiimwa i ici.	51	Capt 11240(12411gaini + 1114ge)	8/30 ~ 8/31	u(0.01)	11.4
			0/30 - 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[1-7-2] 2,2',3,4,4',5,5'-Heptachlorobiphenyl (#180)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	0.14
Median	0.15
Maximum	3.8
Minimum	0.01

Local	No Monitored sites		Warm season		Air sampler
communities	110	Wontored Sies	Sampling dates	Measured value	All sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	0.09	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.01)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.05	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.07	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	0.22	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.08	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.06	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.23	MV
	9	Chichijima Island	10/6 ~ 10/13	tr(0.02)	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.34	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.34	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.46	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.15	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.09	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.11	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.09	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.15	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.32	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.07	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	0.05	HV

Local	Na	Monitored sites	Warm	season	Air sampler
communities	No	Monitored sites	Sampling dates	Measured value	Air sampier
		0.1.1.4.0.6.4.10.4.0.11.0.11.0.11.0.11	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	1.3	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.17	HV
Tryogo Trei.			8/31 ~ 9/1	0.17	11 (
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 9/13	1.2	HV
Kobe City	23	Robe City Government Building(Robe City)		1.2	11 V
			9/14 ~ 9/15		
N. D. C	2.4	To the Oute Market Great (To the City)	8/22 ~ 8/23	0.27	****
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.37	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	0.04	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.28	HV
			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	5/15 5/20	0.18	MV
1 amaguem 1 ici.	21	Environment(Yamaguchi City)		0.10	1V1 V
			9/19 ~ 9/26		
	20	H :M (H :G')	9/19 ~ 9/20	0.16	107
	28	Hagi Museum(Hagi City)		0.16	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	0.18	HV
		Environmental Sciences Center (Tokashinia City)	9/28 ~ 9/29		
			$9/27 \sim 10/4$		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.12	MV
		Elima Durfastand Carramant Nama Davisual	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	1.5	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	3.8	HV
i ukuoku i ici.	32	omata ony dovernment Banding(omata ony)	9/27 ~ 9/28	3.0	111
			9/19 ~ 9/26		
Saga Pref.	22	Sana Brafantiyal Environmental Bassarah Contan(Sana City)	9/19 ~ 9/20	0.07	MV
Saga Prei.	33	Saga Prefectural Environmental Research Center(Saga City)		0.07	MV
			10/2 10/4		
	a :	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	0.00	****
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.08	HV
		` "	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		0.03	MV
		Environment (wilyazaki City)			
		Vaccahima Profestural Institute for Environmental D	8/29 ~ 8/30		<u> </u>
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	0.37	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	1	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	tr(0.02)	HV
Okinawa 1 ICI.	31	capo 11000(120111guilli villuge)	8/30 ~ 8/31	11(0.02)	11 V
			0/30 ~ 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

 $⁽Note\ 4)\ tr: detection\ limit\ value\ and\ more,\ less\ than\ Quantification\ limit\ value.$

[1-7-3] 2,3,3',4,4',5,5'-Heptachlorobiphenyl (#189)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):9/37(Missing value:0)
Detection Frequency (sample):9/37(Missing value:0)

	stats
Geometric mean	nd
Median	nd
Maximum	0.024
Minimum	nd

Local	No	Monitored sites		season Measured value	Air sampler
communities			Sampling dates 10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	nd	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	nd	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	nd	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.013)	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.011)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	nd	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.011)	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	nd	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wolfitored sites	Sampling dates	Measured value	All Sampler
		0.1.1.4.0.6.4.16.4.0.31.0.31.2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	tr(0.021)	HV
		Annex(Osaka City)	9/21 ~ 9/22	, ,	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	nd	HV
Tryogo Tici.	22		8/31 ~ 9/1	nu	11 V
W. I. Gir	22	W. L. Giv. G	9/12 ~ 9/13	. (0.012)	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	tr(0.012)	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	tr(0.010)	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
		, ,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutajii Junior High School (Hiroshima City)	9/12 9/13	nd	HV
Throsinina City	20	Hiroshima City Kokutaiji Junior High School(Hiroshima City)		nu	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		nd	MV
		Environment (Tuningueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		nd	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	nd	HV
TORUSHINIA TTOI.	27	Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		11 ,
			9/27 ~ 10/4		
V D f	20	V Doub-stood Datilia Conjugation Datilia City	9/2/~10/4	4	MV
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		nd	MV
		Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23		
Ehime Pref.	31		8/23 ~ 8/24	tr(0.015)	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.024	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	2.12 2.20	nd	MV
Sugu 1 101.	55	Saga 115100tatat Environmental Research Contel(Saga City)		nu nu	171 7
			10/3 ~ 10/4		
17 . 70 . 2	2.4	Kumamoto Prefectural Institute of Public Health and		,	7777
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	nd	HV
		` "	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		nd	MV
		Livitoimicit(iviiyazaki City)			
		W 1: D C 4 11 d 4 C F : 4 D 1	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	tr(0.010)	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	(010)	== *
			8/28 ~ 8/29		
Oleimarre Beef	27	Come Hada(Vymigami Village)		1	1117
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[1-8] Octachlorobiphenyls/air (pg/m3)

Monitored year :2017

Detection Frequency (site) :21/37(Missing value :0) Detection Frequency (sample) :21/37(Missing value :0)

	stats
Geometric mean	tr(0.12)
Median	tr(0.11)
Maximum	2.4
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.15)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	nd	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	nd	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	tr(0.17)	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.27	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.23)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.33	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.17)	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.09)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.12)	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.22)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local			Warm season		
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
			9/19 ~ 9/20	0.74	
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21		HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	tr(0.11)	HV
Tryogo Tier.	22	Tryogo i refecturar Environmentar Research Center(Robe City)	8/31 ~ 9/1	u(0.11)	11 V
			9/12 ~ 9/13	+	
Value Cita	22	K 1 C' C (P III' (K 1 C'))		0.72	1137
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.72	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23	0.26	
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
		, ,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	tr(0.18)	HV
Throshina City	20	Timoshina City Rokamiji samoi Tiigii senooi(Tinoshina City)	9/14 ~ 9/15	4(0.10)	111
1:00	27	Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	. (0.12)	107
Yamaguchi Pref.	27	Environment(Yamaguchi City)		tr(0.12)	MV
		(5 7)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		tr(0.12)	MV
	29	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)	9/26 ~ 9/27	tr(0.13) HV	
Tokushima Pref.			9/27 ~ 9/28		HV
			9/28 ~ 9/29	` ´	
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	9/2/ 10/1	tr(0.10)	MV
Ragawa 1 Ici.	30	Ragawa Fretecturai Fublic Swithining Foot(Takamatsu City)		11(0.10)	141 4
			8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	1.3	1117
Enime Prei.					HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	2.4	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		nd	MV
		T	10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	nd	HV
	٥.	Environmental Science(Udo City)	10/5 ~ 10/6		== *
			9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand	JIJ 3/14	nd	MV
wiiyazaki Prei.	33	Environment(Miyazaki City)		IIU	1 V1 V
			0/20 0/20		
	36	Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City)	8/29 ~ 8/30		****
Kagoshima Pref.			8/30 ~ 8/31	0.29 HV	HV
			8/31 ~ 9/1		
		7 Cape Hedo(Kunigami Village)	8/28 ~ 8/29	nd HV	
Okinawa Pref.	37		8/29 ~ 8/30		HV
			8/30 ~ 8/31		
		1			

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[1-9] Nonachlorobiphenyls/air (pg/m3)

Monitored year :2017

Detection Frequency (site):14/37(Missing value:0)
Detection Frequency (sample):14/37(Missing value:0)

	stats
Geometric mean	nd
Median	nd
Maximum	0.12
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	nd	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	nd	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	tr(0.03)	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.06)	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.04)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	tr(0.04)	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.04)	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.03)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local	No	Monitored sites	Warm season		Air sampler
communities	110	Wollitored Sites	Sampling dates	Measured value	All sampler
		Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20	0.08	
Osaka Pref.	21	Annex(Osaka City)	9/20 ~ 9/21		HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31		HV
		, ,	8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	tr(0.04)	HV
Robe City	23	Robe City Government Building(Robe City)	9/14 ~ 9/15		111
			8/22 ~ 8/23		
None Duef	24	T IAI O II M II GUI (T I GI		tr(0.04)	HV
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24		ΠV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	tr(0.03)	HV
-			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	3,13 3,20	nd	MV
r umagacini r rer.	- /	Environment(Yamaguchi City)		na	111 1
			9/19 ~ 9/26		
	20	Hani Musaum (Hani City)	9/19 9/20	t=(0,02)	MV
	28	Hagi Museum(Hagi City)		tr(0.03)	MV
			0/26 0/27		
T 1 1: D C	20	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)	9/26 ~ 9/27	,	****
Tokushima Pref.	29		9/27 ~ 9/28	nd	HV
		***************************************	9/28 ~ 9/29		
	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	9/27 ~ 10/4	nd	
Kagawa Pref.					MV
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	0.09	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.12	HV
		g - 3 · Grandon 2 Grandon Colly)	9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	J117 314U	nd	MV
Saga FICI.	33	Saga Fredectural Environmental Research Center(Saga City)		iiu	1 V1 V
			10/2 - 10/4	 	
IZ . B 0	2.4	Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City)	10/3 ~ 10/4		7777
Kumamoto Pref.	34		10/4 ~ 10/5	nd	HV
		` "	10/5 ~ 10/6		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City)	9/5 ~ 9/12		
				nd	MV
		Entrolling iviry dezuki Ony)			
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
			8/30 ~ 8/31	tr(0.04)	HV
-		and Public Health(Kagoshima City)	8/31 ~ 9/1	1 · · · · /	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Okinawa I ICI.	31	cape fredo(Rumgami v mage)		iid	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

 $⁽Note\ 3)\ HV: High\ Volume\ Air\ Sampler\ ,\ MV:\ Medium\ Volume\ Air\ Sampler$

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[1-10] Decachlorobiphenyl/air (pg/m3)

Monitored year :2017

Detection Frequency (site):23/37(Missing value:0) Detection Frequency (sample):23/37(Missing value:0)

	stats
Geometric mean	nd
Median	tr(0.02)
Maximum	0.08
Minimum	nd

Local	NI-	Maniferralaites	Warm season		
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	tr(0.02)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.02)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.02)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.02)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	tr(0.02)	MV
-	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.04	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.04	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	tr(0.03)	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.04	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.02)	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	tr(0.02)	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.02)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.02)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local	No	Monitored sites		season	Air sampler
communities	110	Worldoor Sites	Sampling dates	Measured value	An sampler
		Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20		
Osaka Pref.	21	Annex(Osaka City)	9/20 ~ 9/21	0.04	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	nd	HV
, 8			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	tr(0.03)	HV
Rooe City	23	Robe City Government Building(Robe City)	9/14 ~ 9/15	u(0.03)	11 V
			8/22 ~ 8/23		
Nama Duaf	24	Tonni Ain Ossality Manitanina Station (Tonni City)		t=(0,02)	1177
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	tr(0.02)	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(0.02)	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	tr(0.02)	HV
•			9/14 ~ 9/15	ì í	
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	7/17 7/20	tr(0.03)	MV
i amaguem i iei.	21	Environment(Yamaguchi City)		u(0.03)	1V1 V
			9/19 ~ 9/26		
	20	H :M (H :G:)	9/19 ~ 9/26	. (0.02)	207
	28	28 Hagi Museum(Hagi City)		tr(0.03)	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	nd	HV
		Environmental serences contex (Tenasimila city)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		nd	MV
		Elima Darfastand Carramant Nama Dariand	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.08	HV
i ukuoka i iei.	32	omata ony dovormient Bananig(omata ony)	9/27 ~ 9/28	0.00	11 (
			9/19 ~ 9/26		
Cara Duaf	22	C Deef	9/19 ~ 9/20	0.04	MW
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		0.04	MV
			10/2 10/1		
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	nd	HV
		(())	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		nd	MV
		Environment(iviryazaki City)			
		Wassalina Duckstonal Institute C. E	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	tr(0.02)	HV
5		and Public Health(Kagoshima City)	8/31 ~ 9/1	(/	
			8/28 ~ 8/29		
Okinawa Pref.	27	Cana Hada(Vunigami Villaga)	8/29 ~ 8/30	L.	HV
Okinawa Pref.	37	Cape Hedo(Kunigami Village)		nd	пν
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[2] Hexachlorobenzene/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	130
Median	120
Maximum	550
Minimum	73

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	74	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	87	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	110	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	120	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	130	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	120	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	110	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	140	MV
	9	Chichijima Island	10/6 ~ 10/13	96	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	140	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	200	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	140	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	140	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	98	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	130	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	160	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	110	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	130	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	140	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	73	HV

Osaka Pref. 21 Osaka Joint Prefectural Government Building, Building 2 970 - 972 150 HV	Local	No	Monitored sites	Warm	season	Air sampler
Osaka Pref. 21 Annex(Osaka City) 270 - 9/21 150 HV 270 - 9/22 150 HV 271 - 9/22 150 HV 272 - 9/23 150 HV 273 - 9/21 150 HV 274 - 9/22 150 HV 275 - 9/23 110 HV 275 - 9/23 120 HV 275 - 9/23	communities	INO	Wollholed Sites	Sampling dates	Measured value	All sampler
Annex(Osaka City)			0.1.1.4.0.6.4.10.4.0.11.0.11.0.11.0.11	9/19 ~ 9/20		
Hyogo Pref. 22 Hyogo Prefectural Environmental Research Center(Kobe City S29 = 8/30 8/30 = 8/31 110 HV	Osaka Pref.	21	۵, و	9/20 ~ 9/21	150	HV
Hyogo Pref. 22 Hyogo Prefectural Environmental Research Center(Kobe City) 830 - 831 110 HV			Annex(Osaka City)		1	
Hyogo Pref. 22 Hyogo Prefectural Environmental Research Center(Kobe City) 8/30 - 8/31 110 HV						
Robe City 23	Llyona Drof	22	Hyaga Profestural Environmental Passarah Center(Vaha City)		110	шV
Kobe City 23 Kobe City Government Building(Kobe City) 9/13 - 9/14 130 HV	nyogo Piei.	22	Tryogo i refecturar Environmentar Research Center(Robe City)		110	11 V
Robe City 23 Kobe City Government Building(Kobe City) 9/13 - 9/14 130 HV						
Nara Pref. 24 Tenri Air Quality Monitoring Station(Tenri City) 8/23 - 8/23 120 HV	** 1 G':		r t at a r t at)		120	****
Nara Pref. 24 Tenri Air Quality Monitoring Station(Tenri City) 8/22 - 8/23 8/23 - 8/24 120 HV	Kobe City	23	Kobe City Government Building(Kobe City)		130	HV
Nara Pref. 24 Tenri Air Quality Monitoring Station(Tenri City)						
Shimane Pref. 25 Oki National Acid Rain Observatory(Okinoshima Town 9/27 - 9/28 100 HV				8/22 ~ 8/23		
Shimane Pref. 25	Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	120	HV
Shimane Pref. 25				8/24 ~ 8/25		
Hiroshima City 26 Hiroshima City Kokutaiji Junior High School(Hiroshima City 9/12 - 9/13 9/14 130 HV Yamaguchi Pref. 27 Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City) 9/19 - 9/26 190 MV 28 Hagi Museum(Hagi City) 9/19 - 9/26 230 MV Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/27 - 9/28 99 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 - 10/4 110 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 9/25 - 9/26 9/25 - 9/26 Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/26 - 9/27 550 HV Fukuoka Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 160 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 - 10/6 10/5 - 10/6 Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 100 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research City 8/29 - 8/30 8/30 - 8/31 140 HV				9/26 ~ 9/27		
Hiroshima City 26 Hiroshima City Kokutaiji Junior High School(Hiroshima City 9/12 - 9/13 9/14 130 HV Yamaguchi Pref. 27 Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City) 9/19 - 9/26 190 MV 28 Hagi Museum(Hagi City) 9/19 - 9/26 230 MV Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/27 - 9/28 99 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 - 10/4 110 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 9/25 - 9/26 9/25 - 9/26 Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/26 - 9/27 550 HV Fukuoka Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 160 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 - 10/6 10/5 - 10/6 Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 100 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research City 8/29 - 8/30 8/30 - 8/31 140 HV	Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	100	HV
Hiroshima City 26			,			
Hiroshima City 26						
Yamaguchi Pref. 27 Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City) 9/19 − 9/26 190 MV 28 Hagi Museum(Hagi City) 9/19 − 9/26 230 MV Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/26 − 9/27 − 9/28 − 9/29 99 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 − 10/4 − 110 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/22 − 8/23 − 8/24 − 100 − 10	Hirochima City	26	Hirochima City Vakutaiii Juniar High School (Hirochima City)		130	HV
Yamaguchi Pref. 27 Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City) 9/19 - 9/26 190 MV 28 Hagi Museum(Hagi City) 230 MV Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/26 - 9/27 - 9/28 - 9/29 - 9/28 - 9/29 99 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 110 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/22 - 8/23 - 8/24 - 8/25 - 9/26 - 9/27 - 10/4 100 HV Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/25 - 9/26 - 9/27 - 10/2 550 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 160 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/3 - 10/4 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/6 - 10/5 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10/6 - 10	Till Oslillia City	20	Throshinia City Kokutaiji Julioi Tilgii School(Tiiroshinia City)		130	11 V
Yamaguchi Pref. 27 Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City) 190 MV 28 Hagi Museum(Hagi City) 230 MV Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/26 - 9/27 - 9/28 - 9/29 - 9/29 - 9/28 - 9/29 99 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 - 10/4 - 11/0 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/22 - 8/23 - 8/24 - 8/25 - 9/26 - 9/25 - 9/26 - 9/27 - 9/26 - 9/27 - 9/26 - 9/27 - 9/26 - 9/27 - 9/26 - 9/27 - 9/28 - 9/29 - 9/26 - 9/27 - 9/28						
Saga Pref. 32 Environment(Yamaguchi City) 9/19 - 9/26 230 MV			Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
28 Hagi Museum(Hagi City) 9/19 ~ 9/26 230 MV	Yamaguchi Pref.	27			190	MV
28 Hagi Museum(Hagi City) 230 MV			Environment (Tamagueni City)			
Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/27 - 9/28 9/27 - 9/28 9/27 - 9/28 9/27 - 9/28 9/28 - 9/29 9/27 - 10/4 110 MV				9/19 ~ 9/26		
Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/27 - 9/28 9/27 - 9/28 9/27 - 9/28 9/27 - 9/28 9/28 - 9/29 9/27 - 10/4 110 MV		28	Hagi Museum(Hagi City)		230	MV
Tokushima Pref. 29 Rokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/27 - 9/28 9/28 - 9/29 Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 110 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/22 - 8/23 8/23 - 8/24 100 HV Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/26 - 9/27 550 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 160 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/3 - 10/4 10/4 - 10/5 10/5 - 10/6 Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 100 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 140 HV HV HV 140 160 160 MV Miyazaki Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 140 HV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 140 HV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 140 HV Kagoshima Pref. 140 160						
Tokushima Pref. 29 Rokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/27 ~ 9/28 99				9/26 ~ 9/27		
Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) Fukuoka Pref. 32 Omuta City Government Building(Omuta City) Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research Res	Tokushima Pref	29	· · · · · · · · · · · · · · · · · · ·		99	HV
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Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) Fukuoka Pref. 32 Omuta City Government Building(Omuta City) Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) Saga Prefectural Institute for Environmental Research Saga City Saga Prefectural Institute for Environmental Research Saga City Saga Prefectural Institute for Environmental Research Saga City Saga Prefectural Institute for Environmental Research Saga Prefectural Institute fo		20	W D C + 1D 11' C : D 1/T 1 + C'+	9/2/~10/4	110	207
Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		110	MV
Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office (Uwajima City)						
Fukuoka Pref. 31 Office(Uwajima City) $8/23 \sim 8/24$ 100 HV Fukuoka Pref. 32 Omuta City Government Building(Omuta City) $9/25 \sim 9/26$ $9/25 \sim 9/26$ 550 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) $9/27 \sim 9/28$ $9/19 \sim 9/26$ 160 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) $10/5 \sim 10/6$ $10/5 \sim 10/6$ $10/5 \sim 10/6$ Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) $10/5 \sim 9/12$ 100 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $10/5 \sim 8/30$ $8/30 \sim 8/31$ 140 HV			Fhime Prefectural Government Nanyo Regional]	
Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/25 ~ 9/26 9/27 550 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 9/19 ~ 9/26 9/27 9/28 Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 ~ 10/6 9/5 ~ 9/12 Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 9/5 ~ 9/12 Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/30 ~ 8/31 140 HV	Ehime Pref.	31		8/23 ~ 8/24	100	HV
Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/26 ~ 9/27 $9/28$ 550 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 160 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 ~ 10/6 94 HV Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 100 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/30 ~ 8/31 140 HV				8/24 ~ 8/25		
Fukuoka Pref. 32 Omuta City Government Building(Omuta City) $9/26 \sim 9/27 \ 9/28$ 550 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 160 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 $\sim 10/6$ 94 HV Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 100 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/30 $\sim 8/31$ 140 HV				9/25 ~ 9/26		
Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City)	Fukuoka Pref.	32	Omuta City Government Building(Omuta City)		550	HV
Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City)						
Saga Pref.33Saga Prefectural Environmental Research Center(Saga City)160MVKumamoto Pref.34Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) $\frac{10/3 \sim 10/4}{10/4 \sim 10/5}$ 94HVMiyazaki Pref.35Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) $\frac{9/5 \sim 9/12}{9/5 \sim 9/12}$ 100MVKagoshima Pref.36Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $\frac{8/29 \sim 8/30}{8/30 \sim 8/31}$ 140HV						
Kumamoto Pref.34Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) $10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$ 94HVMiyazaki Pref.35Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) $9/5 \sim 9/12$ $9/5 \sim 9/12$ 100MVKagoshima Pref.36Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $8/29 \sim 8/30$ $8/30 \sim 8/31$ $8/31 \sim 9/1$ 140HV	Saga Draf	33	Saga Prefectural Environmental Passageh Cantar(Saga City)	J11J 3/4U	160	MV
Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) $10/4 \sim 10/5$ 94 HV Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) $9/5 \sim 9/12$ 100 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $8/29 \sim 8/30$ $8/30 \sim 8/31$ 140 HV	Saga FICI.	33	Saga i refectural Environmental Research Center(Saga City)		100	1V1 V
Kumamoto Pref.34Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) $10/4 \sim 10/5$ $10/5 \sim 10/6$ 94HVMiyazaki Pref.35Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) $9/5 \sim 9/12$ $9/5 \sim 9/12$ 100 MVKagoshima Pref.36Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $8/29 \sim 8/30$ $8/30 \sim 8/31$ $8/31 \sim 9/1$ 140 HV				10/2 10/4		
Kumamoto Pref. 34 Environmental Science(Udo City) $\frac{10/4 \sim 10/5}{10/5 \sim 10/6}$ Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) $\frac{9/5 \sim 9/12}{100}$ Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $\frac{8/29 \sim 8/30}{8/30 \sim 8/31}$ $\frac{8/30 \sim 8/31}{8/31 \sim 9/1}$			Kumamoto Prefectural Institute of Public Health and			
Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City)	Kumamoto Pref.	34			94	HV
Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/29 ~ 8/30 8/31 140 HV			()/			
Miyazaki Pref. 35 Environment(Miyazaki City) 100 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/29 ~ 8/30 8/30 ~ 8/31 140 HV			Miyazaki Prefectural Institute for Dublic Healthand	9/5 ~ 9/12		
Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/29 ~ 8/30 8/30 ~ 8/31 8/31 ~ 9/1 HV	Miyazaki Pref.	35			100	MV
Kagoshima Pref. 36 Ragoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/30 ~ 8/31 140 HV			Environment(iviiyazaki City)			
Kagoshima Pref. 36 Ragoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/30 ~ 8/31 140 HV				8/29 ~ 8/30		
and Public Health(Kagoshima City) 8/31 ~ 9/1	Kagoshima Pref	36			140	HV
	114gosiiiiia 11ci.	50	and Public Health(Kagoshima City)		140	11 4
8/28 ~ 8/29	01: 7. 6	2-			110	****
Okinawa Pref. 37 Cape Hedo(Kunigami Village) 8/29 ~ 8/30 110 HV	Okinawa Pref.	37	Cape Hedo(Kunigami Village)		110	HV
8/30 ~ 8/31				8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[11] HCHs (Hexachlorohexanes)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	52
Median	57
Maximum	900
Minimum	6

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	14	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	18	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	23	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	40	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	52	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	47	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	31	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	93	MV
	9	Chichijima Island	10/6 ~ 10/13	120	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	57	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	37	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	75	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	61	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	52	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	78	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	77	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	45	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	69	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	30	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	50	HV

Local	M.	Manifernal altera	Warm	season	A : 1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
		O I I I D C + I C + D TF D TF A	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	94	HV
		Annex(Osaka City)	9/21 ~ 9/22	1	
			8/29 ~ 8/30		
Hrvana Duaf	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	37	HV
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Robe City)		. 37	п٧
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	58	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	170	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	18	HV
Simmane 1 ter.	23	Oki National Mela Ram Observatory (Okinosimia Town)	9/28 ~ 9/29	10	11 4
TT: 1: C:	26	W. 1. C. K.1 I . H. 1 C.1 . 14F. 1 C.	9/12 ~ 9/13		****
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	66	HV
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27			68	MV
_		Environment(Yamaguchi City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		71	MV
	20	Trust triuseum(Trust City)		/ 1	141 4
			9/26 ~ 9/27		
T-11: Df	29	Tokushima Prefectural Public Health, Pharmaceutical and		30	1137
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	30	HV
		, , , , , , , , , , , , , , , , , , ,	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		100	MV
		Thims Duefactional Covernment Newson Besievel	8/22 ~ 8/23]	· · · · · ·
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	69	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	900	HV
i ukuoku i ici.	32	Omata City Government Banding(Omata City)	9/27 ~ 9/28	- 700	11 4
a	2.2		9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		68	MV
				ļ	
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4]	
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	60	HV
		Environmental belefice (odo city)	10/5 ~ 10/6		
		M. I'D C . II C . C DIT II II I	9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand		36	MV
,		Environment(Miyazaki City)			-:- *
			8/29 ~ 8/30	+	
V1: D C	26	Kagoshima Prefectural Institute for Environmental Research		10	1177
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	49	HV
		` ` ` ',	8/31 ~ 9/1		
			8/28 ~ 8/29]	
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	6	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) * : indicates the sum value of the Quantification [Detection] limits of each congener.

[11-1] α-HCH• air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	36
Median	37
Maximum	700
Minimum	4.9

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates	Measured value	*
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	10	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	15	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	18	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	28	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	36	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	31	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	22	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	69	MV
	9	Chichijima Island	10/6 ~ 10/13	100	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	33	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	25	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	47	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	44	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	40	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	49	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	57	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	31	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	47	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	23	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	37	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	NO	Monitored sites	Sampling dates	Measured value	Air sampier
		0.1 1.4 P.C. 4 P.T. P.T. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	62	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	23	HV
nijogo men		Try ogo i refectarar Environmentar researen center(resse city)	8/31 ~ 9/1	23	11 (
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 9/13	31	HV
Kobe City	23	Robe City Government Building(Robe City)		31	11 V
			9/14 ~ 9/15		
N. D. C	2.4	To the Oute Mark to the Great (To the City)	8/22 ~ 8/23	00	****
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	99	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	15	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	44	HV
			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	5/15 5/20	43	MV
1 amaguem 1 ici.	21	Environment(Yamaguchi City)		43	1V1 V
			9/19 ~ 9/26		
	20	H :M (H :G')	9/19 ~ 9/20	40	207
	28	28 Hagi Museum(Hagi City)		42	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	18	HV
		Environmental selences center (Tokasinina city)	9/28 ~ 9/29		
			$9/27 \sim 10/4$		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		69	MV
		FI: D C (1C (N D : 1	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	39	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	700	HV
i unuona i ioi.	J-2	2 straing(ontain only)	9/27 ~ 9/28	, 50	1
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	2/12 - 2/20	45	MV
Saga Fici.	33	Saga i refectural Environmental Research Center(Saga City)		43	1V1 V
			10/2 - 10/4		
IZ . D 0	2.4	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	4.5	1117
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	45	HV
		` "/	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		26	MV
		Zara amion (ini juzuki Girj)			
		Kagashima Prafactural Institute for Environmental Decemb	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	33	HV
=		and Public Health(Kagoshima City)	8/31 ~ 9/1]	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	4.9	HV
Skiilawa i ici.	51	Capt 11240(12411gaini + 1114ge)	8/30 ~ 8/31	/	11.4
			0/30 - 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[11-2] β-HCH• air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	4.1
Median	5.1
Maximum	59
Minimum	0.67

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates 10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	1.3	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.67	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.1	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	4.3	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	3.4	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	2.9	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	2.1	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	2.5	MV
	9	Chichijima Island	10/6 ~ 10/13	0.86	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	7.6	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	2.8	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	8.4	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	5.4	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	2.8	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	11	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	5.8	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	3.3	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	7.5	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	2.1	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	5.2	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Monitored sites	Sampling dates	Measured value	Air sampier
		O I I I D C . I C . D TT D TT A	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	12	HV
		Annex(Osaka City)	9/21 ~ 9/22		
		Hyogo Prefectural Environmental Research Center(Kobe City)	8/29 ~ 8/30	3.8	
Hyogo Pref.	22		8/30 ~ 8/31		HV
nijogo men		Try ogo i refectarar Environmentar researen center(resse city)	8/31 ~ 9/1	3.0	11 (
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 9/13	6.5	HV
Kobe City	23	Robe City Government Building(Robe City)		0.5	11 V
			9/14 ~ 9/15		
N D C	2.4	T : A: O I': M :: S(:: (T :: G':)	8/22 ~ 8/23	26	****
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	26	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	1.0	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	9.1	HV
•			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	5/15 5/20	6.2	MV
Tamagaem Tier.	21	Environment(Yamaguchi City)		0.2	141 4
			9/19 ~ 9/26		
	20	H .M (H .C.()	9/19 - 9/20	7.0	107
	28	Hagi Museum(Hagi City)		7.0	MV
			0/0/ 0/07		
	20	Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27	- 27	
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	2.7	HV
			9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		7.5	MV
		Ehima Busfaatswal Cassammant Nanssa Basianal	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	9.4	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	59	HV
1 4114-0144 1 1 0 1 1	32	and the second s	9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	9/19 9/20	6.3	MV
Saga Fici.	33	Saga Frerectural Environmental Research Center(Saga City)		0.3	IVI V
			10/2 - 10/4		
IZ . D 0	2.4	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		1777
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	5.5	HV
		` "/	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		1.7	MV
		Zara amilon (ini juzuki Gitj)			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36		8/30 ~ 8/31	5.1	HV
=		and Public Health(Kagoshima City)	8/31 ~ 9/1	1	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	0.70	HV
Skiimwa i ici.	51	Capt 11240(12411gaini + 1114ge)	8/30 ~ 8/31	0.70	11.4
			0/30 - 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[11-3] γ-HCH(synonym:Lindane)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	10
Median	11
Maximum	93
Minimum	0.84

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	2.1	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	2.1	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	3.5	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	7.1	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	12	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	11	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	5.9	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	21	MV
	9	Chichijima Island	10/6 ~ 10/13	15	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	15	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	8.9	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	18	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	10	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	8.0	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	16	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	13	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	10	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	13	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	4.9	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	7.6	HV

Local	No Monitored sites		Air sampler		
communities	INO	Wollholed Sites	Sampling dates	Measured value	All Sampler
		0.1 1.4 P.C. 4 P.T. P.T. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	19	HV
		Annex(Osaka City)	9/21 ~ 9/22	1	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	9.7	HV
Tryogo Tici.	22	Tryogo i refecturar Environmentar Research Center(Robe City)		9.7	11 V
			8/31 ~ 9/1		
** 1 6"		r t at a r t at)	9/12 ~ 9/13	20	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	20	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	40	HV
			8/24 ~ 8/25	1	
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	2.2	HV
		,(9/28 ~ 9/29		
			9/12 ~ 9/13		
Hirochima City	26	Hirochima City Kolautaiii Junior Uich School/Uirochima City		12	HV
Hiroshima City	20	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	12	ΠV
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		18	MV
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		21	MV
	20				
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	8.9	HV
Tokusiiiiia Tiei.	2)	Environmental Sciences Center(Tokushima City)		0.5	11 V
			9/28 ~ 9/29		
77 D C	20		9/27 ~ 10/4	21	
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		21	MV
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	19	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	93	HV
		,	9/27 ~ 9/28		•
			9/19 ~ 9/26		
Saga Basf	22	Saga Drafactural Environmental Descende Contan/Saga City	7/17 7/20	14	MV
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		14	MV
			10/2 10/:		
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	ļ	
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	8.4	HV
	<u></u>	Zii. Il Siii. Il Stielle (Odo City)	10/5 ~ 10/6		
		Missoralsi Duofaatsuud Instituta faa Dallia II-141 1	9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand		8.0	MV
		Environment(Miyazaki City)			
			8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	10	HV
Kagosiiilla Fiel.	30	and Public Health(Kagoshima City)		10	HV
			8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	0.84	HV
[8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[11-4] δ-HCH• air (pg/m3)

Monitored year :2017

Detection Frequency (site):36/37(Missing value:0) Detection Frequency (sample):36/37(Missing value:0)

	stats
Geometric mean	0.80
Median	0.92
Maximum	46
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 - 10/17	0.11	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.09	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.24	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.80	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	0.92	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	2.0	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.60	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.59	MV
	9	Chichijima Island	10/6 ~ 10/13	0.24	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	1.7	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.49	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	1.6	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	1.4	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	1.2	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.6	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	1.6	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.1	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	1.3	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.36	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	0.41	HV

Local		Manita and sites	Warm season		4. 1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
		One has being Dougle about Community Desiration, Desiration 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	1.5	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.49	HV
Tryogo Tier.	22	Tryogo i refecturar Environmentar Research Center(Robe City)	8/31 ~ 9/1	0.47	11 4
			9/12 ~ 9/13		
Kobe City	23	Value City Covernment Divilding (Value City)	9/12 ~ 9/13	0.58	HV
Kobe City	23	Kobe City Government Building(Kobe City)		0.38	п٧
			9/14 ~ 9/15		
D. 0	2.4		8/22 ~ 8/23		****
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	6.6	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	0.12	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.78	HV
			9/14 ~ 9/15	1	
			9/19 ~ 9/26		
Vamaayahi Daaf	27	Yamaguchi Prefectural Institute of Public Health and	9/19 - 9/20	0.84	MV
Yamaguchi Pref.		Environment(Yamaguchi City)			MV
			0/10 0/26		
			9/19 ~ 9/26		
	28 Hagi Mu	agi Museum(Hagi City)		1.1	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	0.47	HV
		Environmental Sciences Center (Tokushinia City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		2.4	MV
8		ragawa i refectarar i uone swimining i ooi(rakamatsa erty)			
		+	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	1.8	HV
Emine 1 let.			8/24 ~ 8/25	1.0	11 4
			9/25 ~ 9/26		
F-11 Df	22	Owner City Comment Prolitics (Owner City)		46	HV
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	40	ΠV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		2.4	MV
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		
Kumamoto Pref.	34		10/4 ~ 10/5	1.0	HV
		Environmental Science(Udo City)	10/5 ~ 10/6	1	
		NO. 11 D. C 17 C C. D. 17 T. 17	9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand		0.62	MV
		Environment(Miyazaki City)			•
			8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	1.2	HV
Kagosiiilia Fiel.	30	and Public Health(Kagoshima City)		1.4	11 V
			8/31 ~ 9/1		
01.			8/28 ~ 8/29		****
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
		may (site) is been done the mymbon of sites, thus means (the mymbon	8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

⁽Note 4) nd: Not detected

[14] Polybromodiphenyl ethers(Br4~Br10)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):33/37(Missing value:0) Detection Frequency (sample):33/37(Missing value:0)

	stats
Geometric mean	6.0
Median	7.0
Maximum	190
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(1.8)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	4.7	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	37	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(1.9)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	9.9	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(4.0)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	17	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	190	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	24	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	26	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	10	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(2.9)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	18	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	5.5	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	6.3	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	12	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	4.7	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	10	HV

Local	No	Monitored sites	Warm	season	A in someton
communities	INO	Wollitored Sites	Sampling dates	Measured value	Air sampler
		0.1 1: (P.C.) 10 (P.H. P.H. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2 Annex(Osaka City)	9/20 ~ 9/21	15	HV
			9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	10	HV
Tryogo Tici.	22	Tryogo i refecturar Environmentar Research Center(Robe City)		10	11 V
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	6.0	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	8.8	HV
			8/24 ~ 8/25	1	
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	7.0	HV
	23	Oki National Mela Ram Goselvatory (Okinosimia Town)	9/28 ~ 9/29	7.0	11 V
			9/12 ~ 9/13		
TT: 1: C:	26	W. 1: G. W.1 H. 1 G.1 1 (W. 1: G.)			****
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	5.5	HV
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		4.8	MV
		Environment(Yamaguchi City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)	J. 13 J. 20	7.5	MV
	20	Tragi trascam(tragi city)		7.5	1V1 V
			9/26 ~ 9/27		
T-11 Df	20	Tokushima Prefectural Public Health, Pharmaceutical and		7.0	1137
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	7.8	HV
		` */	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		6.7	MV
		Elima Parfortural Communitation Project	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	tr(2.1)	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	22	Omuta City Covernment Puilding(Omuta City)		8.5	HV
rukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.3	11 V
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		4.7	MV
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		<u> </u>
Kumamoto Pref.	34		10/4 ~ 10/5	11	HV
		Environmental Science(Udo City)	10/5 ~ 10/6	1	
			9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand	113 7/14	nd	MV
wiiyazaki riel.	33	Environment(Miyazaki City)		IIU	1V1 V
			0.100		
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	9.9	HV
		and I done Health(Kagoshinia City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Skinawa 1101.	5,	capt IItao(Itaingaini + iiage)	8/30 ~ 8/31	114	11 V
1			0/30 - 0/31	1	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

 $⁽Note\ 3)\ HV: High\ Volume\ Air\ Sampler\ ,\ MV:\ Medium\ Volume\ Air\ Sampler$

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

⁽Note 6) \ast : indicates the sum value of the Quantification [Detection] limits of each congener.

[14-1] Tetrabromodiphenyl ethers/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	0.39
Median	0.34
Maximum	4.1
Minimum	tr(0.06)

Local	No	Monitored sites	Warm	season	A in commuter
communities	INO	Wontored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(0.09)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.08)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.14)	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.24	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.07)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.51	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.22	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.79	MV
	9	Chichijima Island	10/6 ~ 10/13	0.18	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	1.5	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.93	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.96	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	3.2	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.27	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.3	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.18	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.25	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.84	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.76	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.11)	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	All sampler
		0.1 1.4 P.C. 4 P.T. P.T. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	0.62	HV
		Annex(Osaka City)	9/21 ~ 9/22	-	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.47	HV
Tryogo Tici.	22			0.47	11 V
			8/31 ~ 9/1		
TT 1 G		r t at a r t at)	9/12 ~ 9/13		****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	1.8	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.60	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	4.1	HV
		,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.26	HV
Till Oslillia City	20	Throshinia City Kokutaiji Julioi Tilgii School(Tiiroshinia City)		0.20	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		0.59	MV
		Environment (Tuningueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.41	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	0.21	HV
TORUSHIMIA TTCI.	2)	Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	. 0.21	11 4
			9/27 ~ 10/4		
IZ D.C	20	W D C (1D 11' C : : D 1/T 1 (C')	9/2/~10/4	0.22	107
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.22	MV
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	0.74	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	1.1	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	3/13 3/20	0.28	MV
Saga I ICI.	33	Juga i refecturar Environmentar Research Center(Saga City)		0.20	1 v1 v
			10/3 ~ 10/4		
77	2.	Kumamoto Prefectural Institute of Public Health and			****
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.16	HV
		` ",	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		0.19	MV
		Environment(whyazaki City)			
		W 1: D C 4 11 (4 4 C D ; 12 D)	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	0.34	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1		'
			8/28 ~ 8/29		
Oleimare Desc	27	Care Hada(Vymiaami Village)		t=(0,00)	1137
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	tr(0.06)	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

[14-1-1] 2,2',4,4'-Tetrabromodiphenyl ether (#47)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	0.28
Median	0.25
Maximum	3.8
Minimum	0.06

Local	N	M 2 12	Warm	season	A: 1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	0.07	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.06	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.13	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.17	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	0.07	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.39	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.12	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.55	MV
	9	Chichijima Island	10/6 ~ 10/13	0.14	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	1.1	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.57	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.64	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	2.9	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.16	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.46	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.14	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.19	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.61	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.62	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	0.09	HV

Local	No	Monitored sites	Warm	season	A in somethin
communities	INO	Monitored sites	Sampling dates	Measured value	Air sampler
		0.1 1.4 P.C. 4 P. T. P. T. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	0.41	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.31	HV
Tryogo Trei.			8/31 ~ 9/1	0.51	11 ,
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 9/13	1.6	HV
Kobe City	23	Robe City Government Building(Robe City)		1.0	11 V
			9/14 ~ 9/15		
N. D. C	2.4	To the Oute Market Great (To the City)	8/22 ~ 8/23	0.42	****
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.42	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	3.8	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.18	HV
			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	J/17 J/20	0.45	MV
i amagucin i ici.	21	Environment(Yamaguchi City)		0.43	1V1 V
			0/10 0/26		
	•		9/19 ~ 9/26	0.24	
	28	Hagi Museum(Hagi City)		0.31	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	0.14	HV
		Environmental Sciences Center (Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.16	MV
			8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	0.47	HV
			8/24 ~ 8/25	- 0117	
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.92	HV
Tukuoka 11ci.	32	Official City Government Building(Official City)		0.92	11 V
			9/27 ~ 9/28		
G D C	22		9/19 ~ 9/26	0.10	1.67
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		0.19	MV
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.10	HV
		Environmental belefice (odo otty)	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		<u> </u>
Miyazaki Pref.	35			0.13	MV
		Environment(Miyazaki City)			
			8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	0.25	HV
	36	and Public Health(Kagoshima City)	8/31 ~ 9/1	V.25	
			8/28 ~ 8/29		
Olzinovya Deaf	27	Cara Hada(Kunigarni Villaga)		0.06	TIA.
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	0.06	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[14-2] Pentabromodiphenyl ethers/air (pg/m3)

Monitored year :2017

Detection Frequency (site):33/37(Missing value:0) Detection Frequency (sample):33/37(Missing value:0)

	stats
Geometric mean	0.11
Median	0.10
Maximum	3.4
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 - 10/1/	tr(0.05)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.05)	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	tr(0.06)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.38	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.13	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.18	MV
	9	Chichijima Island	10/6 ~ 10/13	tr(0.06)	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.40	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.27	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.16	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	3.4	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.08)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.7	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	tr(0.06)	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.06)	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.17	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.61	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.04)	HV

Local	No	Monitored sites		season	Air sampler
communities	110	Workored Sites	Sampling dates	Measured value	7 til Samplei
		Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20		
Osaka Pref.	21	۵, و	9/20 ~ 9/21	0.12	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	tr(0.07)	HV
Tryogo Tier.	22	11yogo 1 telectular Environmentar Research Center(Robe City)	8/31 ~ 9/1	u(0.07)	11 1
W 1 C'	22	K 1 C' C (P 11' (K 1 C'))	9/12 ~ 9/13	0.25	1117
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.35	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.10	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	1.4	HV
		,(9/28 ~ 9/29		
			9/12 ~ 9/13		
Himashimas City	26	Himshims City Volgetsiii Ismisa High Sahaal (Himshims City)		tu(0,07)	HV
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	tr(0.07)	ΠV
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		0.12	MV
		Environment (Tamaguem City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.10	MV
		ring: massam(ring: ewy)			
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	tm(0, 0.4)	1137
Tokushima Prei.	29	Environmental Sciences Center(Tokushima City)		tr(0.04)	HV
		` · · ·	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.11	MV
		Elima Professional Communitation Project	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	0.10	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.26	HV
1 ukuoka 1 ICI.	32	omam City Government Bunding(Omuta City)		0.20	11 V
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.05)	MV
		Vumamata Drafactural Institute of Duklin Health and	10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	tr(0.05)	HV
		Environmental Science(Udo City)	10/5 ~ 10/6	` ′	
		+	9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand)15)11L	nd	MV
ivilyazaki i ici.	33	Environment(Miyazaki City)		na na	1 41 A
		-	0/20 0/20		
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	tr(0.07)	HV
		and I done Heatth (Kagosinina City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
China, u 1 101.	5,	cupt Itedo(Italiigailii + Iliage)	8/30 ~ 8/31	iiu	11 4
			0/30 - 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[14-2-1] 2,2',4,4',5-Pentabromodiphenyl ether (#99)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	0.08
Median	0.06
Maximum	2.6
Minimum	0.01

Local communities	No	Monitored sites	Warm Sampling dates	Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(0.02)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.01)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.04	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.04	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.02)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.29	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.06	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.12	MV
	9	Chichijima Island	10/6 ~ 10/13	0.05	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.27	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.17	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.11	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	2.6	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.04	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.46	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.05	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.05	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.12	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.42	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.03)	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	140	Workored Sites	Sampling dates	Measured value	All sampler
		Onder Initiat Burgartural Community Deliting Building 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	0.08	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.06	HV
Tryogo Tier.	22		8/31 ~ 9/1	0.00	11.4
			9/12 ~ 9/13		
Vale City	22	Kobe City Government Building(Kobe City)		0.25	IIV
Kobe City	23	Robe City Government Building(Robe City)	9/13 ~ 9/14	0.25	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.08	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	0.93	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.04	HV
Throsinna City	20	Timosinina City Rokamiji samoi Tiigii senooi(Timosinina City)	9/14 ~ 9/15	0.04	11.4
	2.5	Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	0.00	
Yamaguchi Pref.	27	Environment(Yamaguchi City)		0.09	MV
		(5 1)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.07	MV
		T. 1. 11. D. C. (1D.11) IV 11. DI (1. 1. 1.	9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	tr(0.03)	HV
		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	` ′	
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	7/2/ 10/4	0.07	MV
Kagawa 1 ICI.	30	Ragawa Prefecturai Public Swimming Pool(Takamatsu City)		0.07	1V1 V
			8/22 ~ 8/23		
E1: D 6	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)		0.07	****
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.18	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.03)	MV
	_	Saga Fretectural Environmental Research Center(Saga City)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	0.04	HV
ixumamoto i ici.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.04	11 V
-					
M: 1:B 0	2.5	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12	. (0.02)	107
Miyazaki Pref.	35	Environment(Miyazaki City)		tr(0.03)	MV
		` ' ' ' ' '			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City)	8/30 ~ 8/31	0.05	HV
		and I done Heatth(Kagosiiilia City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	tr(0.02)	HV
	-,	1(8/30 ~ 8/31	=(~=)	'
			0/30 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

 $⁽Note\ 4)\ tr: detection\ limit\ value\ and\ more,\ less\ than\ Quantification\ limit\ value.$

[14-3] Hexabromodiphenyl ethers/air (pg/m3)

Monitored year :2017

Detection Frequency (site):11/37(Missing value:0) Detection Frequency (sample):11/37(Missing value:0)

	stats
Geometric mean	nd
Median	nd
Maximum	2.1
Minimum	nd

Local communities	No	Monitored sites		season Measured value	Air sampler
communities			Sampling dates 10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.2)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.1)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	tr(0.1)	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.1)	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.1)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	tr(0.1)	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.4	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	2.1	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.1)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local			Warm	season	
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
			9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	nd	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	nd	HV
Tryogo Tier.	22	Tryogo i refecturar Environmentar Research Center(Robe City)	8/31 ~ 9/1	iid.	11 V
			9/12 ~ 9/13	+	
W 1 C'	22	W 1 C' C (P '11' (W 1 C'))		,	T T T 7
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	nd	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
		, ,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	nd	HV
Throsinna City	20	Throshina City Rokamiji samoi rrigii school(rinoshina City)	9/14 ~ 9/15	na	111
1:00	27	Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	,	107
Yamaguchi Pref.	27	Environment(Yamaguchi City)		nd	MV
		(5 7)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		nd	MV
		T 1 1' D C (1D 11' II 14 D) (' 1 1	9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	nd	HV
		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	7/2/ 10/4	tr(0.1)	MV
Kagawa 11ci.	30	Ragawa Prefectural Public Swimming Pool (Takamatsu City)		11(0.1)	1V1 V
			8/22 ~ 8/23		
E1: D C	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)		nd	T T T 7
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	tr(0.1)	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		nd	MV
_					
			10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	nd	HV
126116111000 1 101.	5-1	Environmental Science(Udo City)	10/4 10/5	110	11 1
			9/5 ~ 9/12		
Miyazaki Pref.	25	Miyazaki Prefectural Institute for Public Healthand	913 - 9/14	,	MV
wiiyazaki Pref.	35	Environment(Miyazaki City)		nd	1V1 V
			0/00 0/00		
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	nd	HV
			8/31 ~ 9/1		
			8/28 ~ 8/29	Π	·
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
		Si Cape Hedo((Kuingaini vinage)	8/30 ~ 8/31	1 -	•
		1			

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

 $⁽Note\ 4)\ tr: detection\ limit\ value\ and\ more,\ less\ than\ Quantification\ limit\ value.$

⁽Note 5) nd: Not detected

[14-3-1] 2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):9/37(Missing value:0)
Detection Frequency (sample):9/37(Missing value:0)

	stats
Geometric mean	nd
Median	nd
Maximum	0.65
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.09)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	nd	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	tr(0.07)	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.07)	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.04)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	nd	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.18	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.65	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.05)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local			Warm	season	
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
			9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	nd	HV
334444 1 1 1 1 1		Annex(Osaka City)	9/21 ~ 9/22	114	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	nd	HV
Hyogo Fiel.	22	Tryogo Frerecturar Environmentar Research Center(Robe City)		IIU	11 V
			8/31 ~ 9/1		
W 1 G':	22	W. L. Gir. G	9/12 ~ 9/13	,	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	nd	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
		, ,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	nd	HV
Throsinna City	20	Throshina City Rokataiji samoi riigii school(riiroshina City)	9/14 ~ 9/15	na	111
1:00	27	Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	,	107
Yamaguchi Pref.	27	Environment(Yamaguchi City)		nd	MV
		(5 7)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		nd	MV
		T 1 1' D C (1D 11' II 14 D) (' 1 1	9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	nd	HV
		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	9/27 10/1	tr(0.04)	MV
Ragawa 1 Ici.	30	Ragawa i refecturar i uone Swimming i ooi(Takamatsu City)		11(0.04)	141 4
			8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	nd	1117
Enime Prei.					HV
			8/24 ~ 8/25		
			9/25 ~ 9/26	(0.00	
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	tr(0.04)	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		nd	MV
		Tr D.C IT CD.11. Tr. 14	10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	nd	HV
	J -	Environmental Science(Udo City)	10/5 ~ 10/6		
			9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand	213 2114	nd	MV
wiiyazaki Fici.	33	Environment(Miyazaki City)		iid	1V1 V
			0/20 0/20		
	2 -	Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		****
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	nd	HV
		(g s.vy)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
		5. Cape Hedo(Ruinguini + mage)	8/30 ~ 8/31	1 -	•
		1			

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[14-3-2] 2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)/air (pg/m3)

Monitored year :2017

Detection Frequency (site) :8/37(Missing value :0)
Detection Frequency (sample) :8/37(Missing value :0)

	stats
Geometric mean	nd
Median	nd
Maximum	0.37
Minimum	nd

Local	No	Monitored sites	Warm	season	A : 1
communities	INO	ivionitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.06)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	nd	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	tr(0.03)	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.04)	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.03)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	nd	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.18	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.37	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	nd	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.03)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	All sampler
		Onder Injust Burgarden I Community Building Building 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	nd	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	nd	HV
, -8			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	nd	HV
Robe City	23	Robe City Government Bunding(Robe City)	9/13 9/14	IIG	11 V
N. D. C	2.4	T IAI O III M II I GUI (T I GU)	8/22 ~ 8/23	1	1117
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(0.03)	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	nd	HV
·			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	3,13 3,20	nd	MV
r umagaem r ren	27	Environment(Yamaguchi City)		ii.u	141 4
			9/19 ~ 9/26		
	20	H .M (H .C.()	9/19 - 9/20	1	107
	28	Hagi Museum(Hagi City)		nd	MV
			0/0/- 0/07		
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		nd	MV
		Ehima Duafactural Covernment Nanya Dagianal	8/22 ~ 8/23	and a	
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	nd	HV
T untworks T T uni	32	and the second s	9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	9/19 9/20	nd	MV
Saga Fici.	33	Saga Frerectural Environmental Research Center(Saga City)		IIG	1V1 V
			10/2 - 10/4		
IZ . D 0	2.4	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		****
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	nd	HV
		` "/	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		nd	MV
		Zara amilon (ini juzuki Gitj)			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36		8/30 ~ 8/31	nd	HV
=		and Public Health(Kagoshima City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Skiimwa i ici.	51	Capt 11240(12411gaini + 1114ge)	8/30 ~ 8/31	114	11.7
			0/30 - 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[14-4] Heptabromodiphenyl ethers/air (pg/m3)

Monitored year :2017

Detection Frequency (site):10/37(Missing value:0) Detection Frequency (sample):10/37(Missing value:0)

	stats
Geometric mean	nd
Median	nd
Maximum	3.2
Minimum	nd

Local	No	Monitored sites		season Measured value	Air sampler
communities			Sampling dates 10/10 ~ 10/17	ivicasured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.6	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.2)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.4	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.9	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.3)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	1.1	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	3.2	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	nd	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	140	Workored Sites	Sampling dates	Measured value	All sampler
		Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20		
Osaka Pref.	21		9/20 ~ 9/21	nd	HV
		Annex(Osaka City)	9/21 ~ 9/22		
		Hyogo Prefectural Environmental Research Center(Kobe City)	8/29 ~ 8/30		
Hyogo Pref.	22		8/30 ~ 8/31	nd	HV
, 8			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	nd	HV
12000 011)	20	Trees only severalism Bunding(rees only)	9/14 ~ 9/15	114	
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	nd	HV
Ivara i ici.	24	Tenit An Quanty Womtoring Station (Tenit City)	8/24 ~ 8/25	IIG	11 V
			9/26 ~ 9/27		
CI: D.C	25			1	****
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	nd	HV
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		nd	MV
		Environment (Tamagueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		nd	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	nd	HV
		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	1	
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	3,2, 10, 1	0.4	MV
Traga a Tron		Ragawa i terceturai i uone Swimining i ooi(Takamatsu City)		0.1	112 1
			8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	nd	HV
Emine Fier.			8/24 ~ 8/25		11 V
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	tr(0.3)	HV
rukuoka Pref.	32	Omata City Government Bunding(Omata City)		u(0.5)	11 V
			9/27 ~ 9/28		
G 70 C	22		9/19 ~ 9/26	. (0.2)	107
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.2)	MV
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	nd	HV
			10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		nd	MV
		Environmentaliyazaki City)			
		Vaccahima Duefaatuud Instituta fan Environmast 1 D	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	nd	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
J	٥,		8/30 ~ 8/31		1
[0/30 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

 $⁽Note\ 3)\ HV: High\ Volume\ Air\ Sampler\ ,\ MV:\ Medium\ Volume\ Air\ Sampler$

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[14-4-1] 2,2',3,3',4,5',6'-Heptabromodiphenyl ether (#175)/air (pg/m3)

Monitored year :2017

Detection Frequency (site) :2/37(Missing value :0)
Detection Frequency (sample) :2/37(Missing value :0)

	stats
Geometric mean	nd
Median	nd
Maximum	0.11
Minimum	nd

Local	No	Monitored sites	Warm		Air sampler
communities			Sampling dates	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	nd	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	nd	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	nd	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	nd	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	tr(0.06)	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.11)	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	nd	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local	No	Monitored sites		season	Air sampler
communities	110	Widintored Sites	Sampling dates	Measured value	7 th sampler
Osaka Pref.		Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20	nd	
	21	Ç, Ç	9/20 ~ 9/21		HV
		Annex(Osaka City)	9/21 ~ 9/22		
Hyogo Pref.			8/29 ~ 8/30		
	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	nd	HV
		lijogo i iotootului Ziiviioiliiliilii iotootuloi eenisi(izees enij)	8/31 ~ 9/1	114	
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 ~ 9/13		1137
		Robe City Government Building(Robe City)		nd	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23	nd	
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/26 ~ 9/27	nd	
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28		HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	nd	HV
Tin osinina City	20	Throshina City Rokamiji samoi Tiigii seneoi(Tiroshina City)	9/14 ~ 9/15	na na	11.
			9/14 ~ 9/13		
. 1:D C	27	Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City)	9/19 ~ 9/26	,	
Yamaguchi Pref.	27			nd	MV
		(3 7)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		nd	MV
	29	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)	9/26 ~ 9/27		
Tokushima Pref.			9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	9/2/ 10/4	nd	MV
Kagawa Fici.				nd	IVI V
			8/22 ~ 8/23		
E1: D C	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)		1	1117
Ehime Pref.			8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
		Omuta City Government Building(Omuta City)	9/25 ~ 9/26		
Fukuoka Pref.	32		9/26 ~ 9/27	nd H	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		nd	MV
3484 1 1 1 1 1					
			10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	nd	HV
Kumamoto Pref.	54	Environmental Science(Udo City)	10/4 ~ 10/5	nu	11 V
M: 1:B 0	2.5	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		107
Miyazaki Pref.	35	Environment(Miyazaki City)		nd	MV
		()			
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30	T	
			8/30 ~ 8/31	nd	HV
=		and Public Health(Kagoshima City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Draf	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Okinawa Pref.	31	Cape Hedo(Kumgami v mage)		nu	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[14-4-2] 2,2',3,4,4',5',6'-Heptabromodiphenyl ether (#183)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):10/37(Missing value:0)
Detection Frequency (sample):10/37(Missing value:0)

	stats
Geometric mean	nd
Median	nd
Maximum	0.75
Minimum	nd

Local	No	Monitored sites		season Measured value	Air sampler
communities			Sampling dates 10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.18	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.06)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.22	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.21	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.11)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.27	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.75	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	nd	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local	Warm season		season		
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
			9/19 ~ 9/20	nd	
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21		HV
334444 1 1 1 1 1		Annex(Osaka City)	9/21 ~ 9/22	114	
		_	8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	nd	HV
nyogo Piei.	22	Tryogo Frerecturar Environmentar Research Center(Robe City)		IIu	11 V
			8/31 ~ 9/1		
W 1 G':		W 1 6' 6 P 11' W 1 6')	9/12 ~ 9/13	,	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	nd	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23	nd	
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24		HV
			8/24 ~ 8/25		
		Oki National Acid Rain Observatory(Okinoshima Town)	9/26 ~ 9/27		
Shimane Pref.	25		9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	nd	HV
Throsinna City	20	Throshina City Rokaaaji vamoi riigii seneoi(riiroshina City)	9/14 ~ 9/15	ii d	111
			9/19 ~ 9/26		
V	27	Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	4	MSZ
Yamaguchi Pref.	27	Environment(Yamaguchi City)		nd	MV
			0/10 0/0/		
			9/19 ~ 9/26	_	
	28	agi Museum(Hagi City)		nd	MV
		Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)	9/26 ~ 9/27		
Tokushima Pref.	29		9/27 ~ 9/28	nd	HV
		Environmental Sciences Center (Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		tr(0.08)	MV
		Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	nd	
Ehime Pref.	31		8/23 ~ 8/24		HV
Zimine 1 Terr			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	tr(0.09)	HV
Tukuoka 11c1.	32	omata ony dovernment banding(omata ony)		110	11 V
			9/27 ~ 9/28		
C D C	22		9/19 ~ 9/26	,	207
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		nd	MV
			10/0 :0::		
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	tr(0.07)	HV
			10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		nd	MV
		Environment(wnyazaki City)			
	36	Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City)	8/29 ~ 8/30		
Kagoshima Pref.			8/30 ~ 8/31	nd HV	HV
			8/31 ~ 9/1		
			8/28 ~ 8/29	+	
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Okinawa Fiel.	31			IId	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[14-5] Octabromodiphenyl ethers/air (pg/m3)

Monitored year :2017

Detection Frequency (site):28/37(Missing value:0) Detection Frequency (sample):28/37(Missing value:0)

	stats
Geometric mean	tr(0.19)
Median	0.23
Maximum	5.7
Minimum	nd

Local	No	Maniferralaites	Warm	season	A :1
communities	INO	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.35	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.86	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.31	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.53	MV
-	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	5.7	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.81	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	3.9	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.09)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	2.5	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	tr(0.16)	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.12)	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.39	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.14)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.18)	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	All sampler
		Onder Injust Burgarden I Community Building Building 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	0.34	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.23	HV
, -8		, -g(8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.24	HV
Robe City	23	Robe City Government Bunding(Robe City)	9/13 9/14	0.24	11 V
N D	24	Touri Air Oralita Manitarina Station (Tauri Cita)	8/22 ~ 8/23	0.27	1137
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.27	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(0.07)	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.21	HV
			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	2/12 2/20	tr(0.18)	MV
i amaguem i iei.	21	Environment(Yamaguchi City)		11(0.10)	1V1 V
			9/19 ~ 9/26		
	20	H :M (H :G')	9/19 ~ 9/26	0.22	207
	28	Hagi Museum(Hagi City)		0.23	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	tr(0.08)	HV
		Environmental selences center (Tokasinina city)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.63	MV
		Elima Professoral Community Name Project	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.41	HV
i unuona i ioi.	J-2	2 straing(ontain only)	9/27 ~ 9/28	0.11	1
			9/19 ~ 9/26		
Saga Pref.	22	Saga Profestural Environmental Dessarah Contan(Sas - City)	9/19 9/20	0.27	MV
Saga Prei.	33	Saga Prefectural Environmental Research Center(Saga City)		0.27	MV
			10/2 10/4		
	a :	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	0.55	**
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.32	HV
		` "	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		nd	MV
		Livitoiniiciic(iviiyazaki City)			
		Vaccahima Duefactural Institute for Essission and 1 D	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City)	8/30 ~ 8/31	0.31	HV
			8/31 ~ 9/1		11 4
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Okinawa 1 ICI.	31	capo 11000(120111guilli villuge)	8/30 ~ 8/31	IIQ.	11 V
			0/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[14-6] Nonabromodiphenyl ethers/air (pg/m3)

Monitored year :2017

Detection Frequency (site) :31/37(Missing value :0) Detection Frequency (sample) :31/37(Missing value :0)

	stats
Geometric mean	0.8
Median	0.8
Maximum	40
Minimum	nd

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates 10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.6	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	4.0	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	1.6	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.5)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	1.7	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	40	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	2.9	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	7.5	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.4)	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.4)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	2.4	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.7	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.9	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	1.7	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.5)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	1.4	HV

Local No Monitored sites		Monitored sites	Warm	season	Air sampler
communities	INO	Monitored sites	Sampling dates	Measured value	Air sampier
			9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	1.9	HV
Count i ici.	21	Annex(Osaka City)	9/21 ~ 9/22	1.7	11 4
			8/29 ~ 8/30		
	22	Hyogo Prefectural Environmental Research Center(Kobe City)		1.2	1117
Hyogo Pref.	22		8/30 ~ 8/31	1.3	HV
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.7	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	1.0	HV
		3 (),	8/24 ~ 8/25	1	
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(0,2)	HV
Simmane Fiel.	23	OKI Ivanonai Aciu Ivani Ousci vanoi y(Okinosinnia 10WII)		tr(0.2)	11 V
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.8	HV
			9/14 ~ 9/15		
		Venne eveki Duefectural Institute of Duklie Health - : 4	9/19 ~ 9/26		<u> </u>
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and		0.6	MV
S		Environment(Yamaguchi City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)	2/12 2/20	1.0	MV
	20	riagi wuscum(riagi City)		1.0	IVI V
			0/26 0/27		
T 1 1: D C	29	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)	9/26 ~ 9/27	0.8	****
Tokushima Pref.			9/27 ~ 9/28		HV
		` "	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		1.1	MV
		This Post of Control of the Control	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	tr(0.2)	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	1.1	HV
i ukuoka fici.	32	Omata City Government Building(Omata City)		1.1	11 V
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.5)	MV
_		V	10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	1.5	HV
		Environmental Science(Udo City)	10/5 ~ 10/6		
			9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand	913 - 9/12	nd nd	MV
wiiyazaki Pref.	33	Environment(Miyazaki City)		nd	1 V1 V
		` • • • • • • • • • • • • • • • • • • •	0.00		
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	1.4	HV
		and I done Health(Ragosinina City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
	i. 31/ C	Cape riedo(Kunigami village)	8/30 ~ 8/31	IIU	11 V
			0/30 - 0/31	i I	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd : Not detected

[14-7] Decabromodiphenyl ether/air (pg/m3)

Monitored year :2017

Detection Frequency (site) :34/37(Missing value :0) Detection Frequency (sample) :34/37(Missing value :0)

	stats
Geometric mean	4.2
Median	4.4
Maximum	140
Minimum	nd

Local	No	Monitored sites	Warm	season	Air compler
communities	100	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(1.7)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	4.0	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.9)	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	32	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(1.8)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	5.7	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	2.5	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	13	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	140	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	19	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	12	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	3.0	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(2.1)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	5.2	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	4.4	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	5.0	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	8.7	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	2.7	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	10/3 ~ 10/4 10/4 ~ 10/5 10/5 ~ 10/6	8.7	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollitored Sites	Sampling dates	Measured value	All sampler
		Osaka Joint Prefectural Government Building, Building 2	9/19 ~ 9/20		
Osaka Pref.	21	Ç, Ç	9/20 ~ 9/21	12	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	8.4	HV
Tryogo Trei.	22	Tryogo i refecturar Environmentar Research Center(Robe City)	8/31 ~ 9/1	0.4	11 V
W 1 C'	22	K 1 C' C (P 11' (K 1 C'))	9/12 ~ 9/13	2.0	1117
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	2.9	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	6.8	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(1.2)	HV
		, ,	9/28 ~ 9/29	` ′	
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	4.2	HV
Tinosiiiia City	20	Hirosnima City Kokutaiji Junior High School(Hirosnima City)	9/13 9/14	7.2	11 V
** 1:5 0	2.5	Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	2.2	
Yamaguchi Pref.	27	Environment(Yamaguchi City)		3.3	MV
		(5 1/			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		5.8	MV
		T 1 1' D C (1D 11' II 14 D) (' 1 1	9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	6.7	HV
		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	0 Kagawa Prefectural Public Swimming Pool(Takamatsu City))/2/ 10/ 4	4.1	MV
Kagawa Fici.				4.1	IVI V
			8/22 ~ 8/23		
E1: D C	2.1	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)		. (1.1)	****
Ehime Pref.	31		8/23 ~ 8/24	tr(1.1)	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	5.2	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		3.4	MV
	-				
			10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	9.0	HV
ixumamoto i ici.	34	Environmental Science(Udo City)	10/4 ~ 10/5	7.0	11 V
				+	
M. 1:B.0	2.5	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		167
Miyazaki Pref.	35	Environment(Miyazaki City)		nd	MV
		, , , , , , , , , , , , , , , , , , , ,			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36		8/30 ~ 8/31	7.8	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1]	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Okinawa 1 ICI.	31	cupe fredo(ixumgumi v muge)		int	11 4
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[15] Perfluorooctane sulfonic acid (PFOS)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	2.9
Median	2.7
Maximum	8.9
Minimum	1.1

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates	Measured value	•
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	1.5	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.6	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	2.7	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	6.2	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	6.3	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	6.6	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	5.6	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	3.7	MV
	9	Chichijima Island	10/6 ~ 10/13	8.9	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	1.7	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	4.6	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	3.5	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	1.3	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	2.4	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.9	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	4.1	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	2.3	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	6.6	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	1.4	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	1.8	HV

Local	No	Monitored sites	Warm	season	A in commun
communities	No	ivionitored sites	Sampling dates	Measured value	Air sampler
		O I I C P C I I C P TI P TI 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	1.6	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30	+	
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	1.1	HV
Tryogo Trei.		Try ogo i referencial Environmental Research Center(Research)	8/31 ~ 9/1	1.1	11 (
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 9/13	2.2	HV
Kobe City	23	Robe City Government Building(Robe City)		2.2	11 V
			9/14 ~ 9/15		
N. D. C	2.4	T : A: O I': M :: S(:: (T :: G':)	8/22 ~ 8/23	2.5	1117
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	2.5	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	1.3	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	26 Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	1.3	HV
•			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	5/15 5/20	5.0	MV
r amaguem r rei.	21	Environment(Yamaguchi City)		5.0	141 4
			9/19 ~ 9/26		
	20	Hari Marana (Hari Cita)	9/19 - 9/20	0.0	MV
	28	Hagi Museum(Hagi City)		8.0	MV
			0/0/- 0/07		
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	2.4	HV
			9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		3.6	MV
		Ehima Duafaatsuud Cassamuu ant Nanssa Daaianal	8/22 ~ 8/23	2000	
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	3.2	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	1.3	HV
	-	g(9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	J11J 3/4U	6.0	MV
Saga Fici.	33	Saga i refectural Environmental Research Center(Saga City)		0.0	1 V1 V
			10/2 - 10/4		
IZ A D C	2.4	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	1.2	1117
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	1.2	HV
		` "/	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		4.3	MV
		Zara amion (ini juzuki Onj)			
		Kagashima Prafactural Institute for Environmental Decemb	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	4.3	HV
=		and Public Health(Kagoshima City)	8/31 ~ 9/1	1	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	6.3	HV
Skillawa 1101.	51	Capt 11240(12411gaini + 1114ge)	8/30 ~ 8/31	0.5	11.4
			0/30 - 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[16] Perfluorooctanoic acid (PFOA)/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	14
Median	13
Maximum	150
Minimum	tr(2.0)

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 - 10/1/	tr(2.0)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(3.2)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	8.2	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	13	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	11	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	19	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	11	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	59	MV
	9	Chichijima Island	10/6 ~ 10/13	6.0	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	39	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	20	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	37	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	10	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	13	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	9.0	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	11	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	9.1	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	45	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	19	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	6.8	HV

Local	Ma	Monitored sites	Warm	season	Air sampler
communities	No	Monitored sites	Sampling dates	Measured value	Air sampier
			9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	22	HV
0 54114 1 1 1 1 1		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
H D C	22	D. Harris D. C. to L. Cital		1.1	1117
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	11	HV
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	22	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	11	HV
rvara i ici.	2-7	Temi 7th Quanty Womtoring Station (Temi City)	8/24 ~ 8/25	11	11 4
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	14	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	32	HV
		, , , , , , , , , , , , , , , , , , , ,	9/14 ~ 9/15		
			9/19 ~ 9/26		
V	27	Yamaguchi Prefectural Institute of Public Health and	9/19 - 9/20	20	M
Yamaguchi Pref.	27	Environment(Yamaguchi City)		29	MV
		()			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		65	MV
		TO A 11' DO CO. AD 11' M. IA DI.	9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	11	HV
101140111114 11411	27	Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	-	
	20		9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		7.5	MV
		Ehime Prefectural Government Nanyo Regional	8/22 ~ 8/23		
Ehime Pref.	31	Office(Uwajima City)	8/23 ~ 8/24	8.1	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	15	HV
i ukuoku i ici.	32	omata ony dovernment Banding(omata ony)	9/27 ~ 9/28	15	11 (
	2.2		9/19 ~ 9/26	,,	101
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		14	MV
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4]	
Kumamoto Pref.	34		10/4 ~ 10/5	5.6	HV
		Environmental Science(Udo City)	10/5 ~ 10/6	1	
			9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand).U),12	150	MV
iviiyazaki i ici.	33	Environment(Miyazaki City)		150	1 V1 V
			0/20 0/20		
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	16	HV
		and I don't read the state of t	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	5.5	HV
	,	1(8/30 ~ 8/31		'
			0/30 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[17] Pentachlorobenzene/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	71
Median	69
Maximum	200
Minimum	32

Local	No	Monitored sites		season	Air sampler
communities	110	Montored sites	Sampling dates	Measured value	7 III samplet
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	32	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	41	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	47	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	49	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	75	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	65	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	67	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	110	MV
	9	Chichijima Island	10/6 ~ 10/13	37	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	120	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	100	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	73	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	95	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	63	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	100	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	110	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	69	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	67	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	83	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	36	HV

Local	2.7	W 20 120	Warm	season	
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
			9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	100	HV
Osaka 1 ICI.	21	Annex(Osaka City)		100	11 V
			9/21 ~ 9/22		
Hyogo Pref.	22		8/29 ~ 8/30	40	****
	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	48	HV
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	88	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	77	HV
		3 ()/	8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Olri National Acid Dain Observatory (Olrin ashima Tayan)	9/27 ~ 9/28	47	HV
Similane Fiel.	23	Oki National Acid Rain Observatory(Okinoshima Town)		47	11 V
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	77	HV
			9/14 ~ 9/15		
		V 1:D C + 11 + 14 + CD 11; II 14 + 1	9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City)		130	MV
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)	9/19 1 9/20	140	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29		9/27 ~ 9/28	50	HV
		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	3/27 10/1	59	MV
			8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	55	HV
	31		8/24 ~ 8/25		• •
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	200	HV
i ukuoka 1101.	32	omam city dovernment building(omata city)		200	11 V
			9/27 ~ 9/28		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	9/19 ~ 9/26	110	MV
			10/3 ~ 10/4		
Kumamoto Pref.	3.4	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	53	HV
Kamamow Fiel.	34	Environmental Science(Udo City)		53	11 V
		1	10/5 ~ 10/6		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City)	9/5 ~ 9/12	50	MV
			8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	89	HV
ragosiiilla i ici.	50	and Public Health(Kagoshima City)		67	11 V
			8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	42	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

[19] 1,2,5,6,9,10-Hexabromocyclododecanes/air (pg/m3)

Monitored year :2017

Detection Frequency (site):32/37(Missing value:0) Detection Frequency (sample):32/37(Missing value:0)

	stats
Geometric mean	tr(0.7)
Median	tr(0.7)
Maximum	4.6
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	1.3	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.4)	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	tr(0.4)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.8)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.7)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	1.5	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	2.4	MV
	9	Chichijima Island	10/6 ~ 10/13	1.8	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	1.2	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	2.6	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	nd	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	1.5	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.6)	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	tr(0.5)	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.6)	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.6)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	1.3	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.6)	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	All Sampler
		0.1 1.4 P.C. 4 P.T. P.T. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	2.9	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	tr(0.4)	HV
nyogo Piei.	22			u(0.4)	11 V
			8/31 ~ 9/1		
** 1 6'		r t at a r t at)	9/12 ~ 9/13	(0.0)	
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	tr(0.8)	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	tr(0.4)	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(0.7)	HV
		, ,	9/28 ~ 9/29	(* 1)	
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/12 9/13	2.6	HV
Throsinna City	20	Timosinina City Kokutaiji Junioi Tiigii School(Tiitosiiiiia City)		2.0	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		1.6	MV
		Environment (Tuningueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		1.9	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	tr(0.5)	HV
101140111114 11411		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	(0.0)	
			9/27 ~ 10/4		
V D f	20	V Doub Doublin Coming to Doubling City	9/2/~10/4	t-(0.7)	MV
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		tr(0.7)	MV
			0/00 0/00		
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	nd	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.9	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		1.2	MV
25 1 101.	23	Saga Fretectural Environmental Research Center(Saga City)		1.2	2.2 1
			10/3 ~ 10/4		
Variant D. C	2.4	Kumamoto Prefectural Institute of Public Health and		1.0	1117
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	1.0	HV
		. • .	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		4.6	MV
		Zii ii oliiilolii (ivii yuzuki Oliy)			
		Vacashina Duafactural Institute for Eurice and 1 D	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	tr(0.5)	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Okinawa Pref.	31	Cape Hedo(Kunigaini vinage)		na	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

⁽Note 6) \ast : indicates the sum value of the Quantification [Detection] limits of each congener.

[19-1] α -1,2,5,6,9,10-Hexabromocyclododecane/air (pg/m3)

Monitored year :2017

Detection Frequency (site):36/37(Missing value:0) Detection Frequency (sample):36/37(Missing value:0)

	stats
Geometric mean	0.5
Median	0.5
Maximum	3.3
Minimum	nd

Local	3.7	W 2 12	Warm	season	4.1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	1.0	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.1)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.3	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.3	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	0.5	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.4	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	1.3	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	1.9	MV
	9	Chichijima Island	10/6 ~ 10/13	1.3	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.6	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	1.4	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	tr(0.2)	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.8	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.1)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.4	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.4	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.5	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	0.5	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.8	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	0.4	HV

Local	No	Monitored sites	Warm	season	Air compler
communities	No	ivionitored sites	Sampling dates	Measured value	Air sampler
		O I I O O O O O O O O O O O O O O O O O	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	1.7	HV
		Annex(Osaka City)	9/21 ~ 9/22	1	
			8/29 ~ 8/30	1	
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.3	HV
nijogo men		Try ogo i refectului Environmentai rescaren center(resce city)	8/31 ~ 9/1	0.5	11 (
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 9/13	0.6	HV
Kobe City	23	Robe City Government Building(Robe City)		0.0	11 V
			9/14 ~ 9/15		
N. D. C	2.4		8/22 ~ 8/23	0.2	****
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.3	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	0.5	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	1.6	HV
			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	J/17 J/20	1.2	MV
i amagucini Fici.	21	Environment(Yamaguchi City)		1.2	IVI V
			0/10 0/26		
	•		9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		1.4	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	0.4	HV
		Environmental Sciences Center (Tokushinta City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.5	MV
		The Board of the Control of the Cont	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	tr(0.2)	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.5	HV
Tukuoka 11ci.	32	Official City Government Building(Official City)		0.5	11 V
			9/27 ~ 9/28		
G D C	22		9/19 ~ 9/26	0.0	207
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		0.8	MV
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	ļ	
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	0.6	HV
		Zii ii oiiiii oii oi oi oi oi oi oi oi oi	10/5 ~ 10/6		
	_	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35			3.3	MV
		Environment(Miyazaki City)			
			8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	0.4	HV
120505111110 1 101.	20	and Public Health(Kagoshima City)	8/31 ~ 9/1		11.4
			8/28 ~ 8/29		
Ol-in an B C	27	Constitution (Vanishani Village)			1757
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

 $⁽Note\ 3)\ HV: High\ Volume\ Air\ Sampler\ ,\ MV:\ Medium\ Volume\ Air\ Sampler$

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[19-2] β -1,2,5,6,9,10-Hexabromocyclododecane/air (pg/m3)

Monitored year :2017

Detection Frequency (site):33/37(Missing value:0) Detection Frequency (sample):33/37(Missing value:0)

	stats
Geometric mean	tr(0.2)
Median	tr(0.1)
Maximum	0.8
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(0.2)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.1)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.1)	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	tr(0.1)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.1)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.1)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.2)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.3	MV
	9	Chichijima Island	10/6 ~ 10/13	tr(0.1)	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.1)	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.4	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	nd	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.3	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.1)	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	tr(0.1)	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.1)	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.1)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.3	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.1)	HV

Local	Na	Monitored sites	Warm	season	A in commuter
communities	No	Wontored sites	Sampling dates	Measured value	Air sampler
	21	Osaka Joint Prefectural Government Building, Building 2 Annex(Osaka City)	9/19 ~ 9/20		
Osaka Pref.			9/20 ~ 9/21	0.5	HV
			9/21 ~ 9/22		
			8/29 ~ 8/30		
Hrans D	22	Harris Dougle to all Engineers to 1 Page 1 Contact (Kala Cita)	8/30 ~ 8/31	tr(0.1)	HV
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)		u(0.1)	11 V
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	tr(0.2)	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	tr(0.1)	HV
			8/24 ~ 8/25	ì	
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(0.1)	HV
Similane 1 ter.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	9/28 ~ 9/29	11(0.1)	11 V
TT: 1: 6:	2.0		9/12 ~ 9/13	0.7	7777
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.7	HV
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		0.4	MV
			9/19 ~ 9/26		
	20	H : M (H : G')	9/19 ~ 9/20	0.4	
	28	Hagi Museum(Hagi City)		0.4	MV
		Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)	9/26 ~ 9/27		
Tokushima Pref.	29		9/27 ~ 9/28	tr(0.1)	HV
			9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	9/2/ 10/1	tr(0.1)	MV
Kagawa 1 ICI.	30	Ragawa i refecturar i done Swimming i ooi(Takamatsa City)		11(0.1)	IVI V
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23		
Ehime Pref.			8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	tr(0.2)	HV
i ukuoka i ici.	32	Omata City Government Building(Omata City)	9/27 ~ 9/28		11 4
G D C	22		9/19 ~ 9/26	0.2	207
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		0.3	MV
			10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	tr(0.2)	HV
Transmitted 1 ICI.	57	Environmental Science(Udo City)	10/4 10/5	tr(0.2)	11 V
10 11 n n	2.5	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12	0.0	
Miyazaki Pref.	35	Environment(Miyazaki City)		0.8	MV
		T. I. D.C. IV. C. F	8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	tr(0.1)	HV
1250011111111111111111111111111111111	50	and Public Health(Kagoshima City)	8/31 ~ 9/1	tr(0.1)	ПV
01: 70.0	27	C H 1 (K : : Will)	8/28 ~ 8/29		7777
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
			8/30 ~ 8/31	1	

^{| 8/30 ~ 8/31 | (}Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

 $⁽Note\ 3)\ HV: High\ Volume\ Air\ Sampler\ ,\ MV:\ Medium\ Volume\ Air\ Sampler$

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[19-3] γ -1,2,5,6,9,10-Hexabromocyclododecane/air (pg/m3)

Monitored year :2017

Detection Frequency (site):20/37(Missing value:0) Detection Frequency (sample):20/37(Missing value:0)

	stats
Geometric mean	tr(0.1)
Median	tr(0.1)
Maximum	0.8
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(0.1)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.2)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(0.2)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	nd	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	tr(0.2)	MV
	9	Chichijima Island	10/6 ~ 10/13	0.4	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.5	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.8	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	nd	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.4	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.1)	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	nd	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.2)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.1)	HV

Local		v	Warm	season	
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
			9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	0.7	HV
334444 1 1 1 1 1		Annex(Osaka City)	9/21 ~ 9/22	0.,	
			8/29 ~ 8/30		
Hyogo Pref.	22	House Doub stand Familia and the Double Control (Value Cita)	8/30 ~ 8/31	nd	HV
Hyogo Fiel.	22	Hyogo Prefectural Environmental Research Center(Kobe City)		IIG	11 V
			8/31 ~ 9/1		
77 1 61	22	W. L. Gir. G	9/12 ~ 9/13	,	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	nd	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(0.1)	HV
		, ,	9/28 ~ 9/29	` ′	
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.3	HV
Throshina City	20	Throshina City Rokamiji samoi riigii seneoi(riiroshina City)	9/14 ~ 9/15	0.5	11 (
			9/19 ~ 9/26		
V	27	Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	nd	M37
Yamaguchi Pref.		Environment(Yamaguchi City)			MV
		, , ,	0.11.0		
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		tr(0.1)	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	nd	HV
		Environmental Sciences Center (Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		tr(0.1)	MV
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23		
Ehime Pref.			8/23 ~ 8/24	nd	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	tr(0.2)	HV
i ukuoku i ici.	32	omata ony devermment Banding(omata ony)	9/27 ~ 9/28	4 (0.2)	11 '
			9/19 ~ 9/26		
Saga Pref.	33	Saga Drafactural Environmental Descende Contant Sagar City	9/19 9/20	tn(0, 1)	MV
Saga Frei.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.1)	1V1 V
			10/2 - 10/4		
	2.4	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	. (0.2)	****
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	tr(0.2)	HV
		` "/	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		0.5	MV
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30	Π	
Kagoshima Pref.	36		8/30 ~ 8/31	nd	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
	- /	Cape riedo(Kunigami viliage)	8/30 ~ 8/31	, IIG	11 4
1		1	0,50 0,51	1	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[20] Total Polychlorinated Naphthalenes/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	110
Median	120
Maximum	920
Minimum	7

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates	Measured value	1
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	86	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	29	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	20	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	75	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	41	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	84	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	110	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	120	MV
	9	Chichijima Island	10/6 ~ 10/13	24	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	190	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	170	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	130	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	57	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	120	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	380	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	190	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	79	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	130	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	71	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	110	HV

Local	NI.	Maniferentiale	Warm	season	A :1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
		O I I I D C . I C . D TE D TE A	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2 Annex(Osaka City)	9/20 ~ 9/21	160	HV
			9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyana Dunfaatamal Environmental Dassanah Contan/Vaha City)	8/30 ~ 8/31	74	HV
nyogo Piei.	22	Hyogo Prefectural Environmental Research Center(Kobe City)		/4	пν
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	260	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	560	HV
			8/24 ~ 8/25	1	
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	16	HV
Similane 1 ici.	23	Oki Ivational Acid Rain Goscivatory(Okinosinina Town)	9/28 ~ 9/29	10	11 V
*** 1	2.5		9/12 ~ 9/13	1.50	****
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	150	HV
			9/14 ~ 9/15		
		Variational Description of Dublic Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and		920	MV
S		Environment(Yamaguchi City)		7 - 7	
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)	2/12 2/20	380	MV
	20	Tragi Wuscum(Tragi City)		360	IVI V
			0/26 0/27		
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	560	HV
		Environmental serences content (Tenasimina city)	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		310	MV
			8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	150	HV
Emme 1 ici.			8/24 ~ 8/25		11 4
			9/25 ~ 9/26		
E 1 1 B C	22	0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0		100	****
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	190	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		190	MV
			10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	96	HV
1241114111010 1 101.	5-1	Environmental Science(Udo City)		\	11 7
			$\frac{10/5 \sim 10/6}{0/5 \sim 0/12}$	 	
M. 1.B.	2.5	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12	1.7	107
Miyazaki Pref.	35	Environment(Miyazaki City)		17	MV
		` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36		8/30 ~ 8/31	72	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	1	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	7	HV
OKIIIAWA FIEL.	31	Cape Hedo(Kumgami v mage)		′	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more. (Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

⁽Note 4) * : indicates the sum value of the Quantification [Detection] limits of each congener.

[20-1] monochlorinated Naphthalene/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	62
Median	72
Maximum	720
Minimum	3.1

Local	N	W 20 120	Warm	season	A: 1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	54	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	20	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	13	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	52	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	22	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	58	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	80	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	72	MV
	9	Chichijima Island	10/6 ~ 10/13	5.4	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	130	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	95	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	69	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	33	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	100	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	78	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	150	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	50	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	76	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	45	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$ \begin{array}{r} 10/3 \sim 10/4 \\ 10/4 \sim 10/5 \\ 10/5 \sim 10/6 \end{array} $	85	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	NO	Monitored sites	Sampling dates	Measured value	Air sampier
		0.1.1.4.0.6.4.10.4.0.11.0.11.0.11.0.11	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	92	HV
		Annex(Osaka City)	9/21 ~ 9/22		
		Hyogo Prefectural Environmental Research Center(Kobe City)	8/29 ~ 8/30		
Hyogo Pref.	22		8/30 ~ 8/31	52	HV
Tryogo Trei.		Try ogo i refectarar Environmentar researen center(resse city)	8/31 ~ 9/1	32	11 (
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 9/13	71	HV
Kobe City	23	Robe City Government Building(Robe City)		/ 1	11 V
			9/14 ~ 9/15		
N. D. C	2.4	To the Oute Mark to the Great (To the City)	8/22 ~ 8/23	450	****
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	450	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	9.7	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	73	HV
			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	5/15 5/20	720	MV
1 amaguem 1 ici.	21	Environment(Yamaguchi City)		720	1V1 V
			9/19 ~ 9/26		
	20	H :M (H :G')	9/19 ~ 9/26	170	207
	28	Hagi Museum(Hagi City)		170	MV
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27		
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	490	HV
		Environmental Sciences Center (Tokashinia City)	9/28 ~ 9/29		
			$9/27 \sim 10/4$		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		240	MV
		Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	97	
Ehime Pref.	31		8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	130	HV
T untworks T T uni	32	and the second s	9/27 ~ 9/28	150	
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	9/19 9/20	140	MV
Saga Fici.	33	Saga Frerectural Environmental Research Center(Saga City)		140	IVI V
			10/2 - 10/4		
IZ . D 0	2.4	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		****
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	67	HV
		` "/	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		9.0	MV
		Zara amilon (trij uzuki Grij)			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36		8/30 ~ 8/31	33	HV
=		and Public Health(Kagoshima City)	8/31 ~ 9/1]	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	3.1	HV
Skiilawa i ici.	51	Capt 11240(12411gaini + 1114ge)	8/30 ~ 8/31	3.1	11.4
			0/30 - 0/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[20-2] dichlorinated Naphthalene/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	17
Median	18
Maximum	180
Minimum	1.9

Local	No	Monitored sites	Warm	season	Air sampler
communities	NO	Monitored sites	Sampling dates	Measured value	Air sampier
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	20	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	7.3	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	3.3	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	12	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	8.7	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	13	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	15	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	18	MV
	9	Chichijima Island	10/6 ~ 10/13	2.4	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	33	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	30	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	25	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	9.5	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	8.2	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	21	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	28	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	12	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	21	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	16	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	15	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	No	Wolltored Sites	Sampling dates	Measured value	Air sampier
			9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	22	HV
0 54114 1 1 1 1 1		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
II D C	22	Hyogo Prefectural Environmental Research Center(Kobe City)			1117
Hyogo Pref.	22		8/30 ~ 8/31	11	HV
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	14	HV
			9/14 ~ 9/15	1	
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	73	HV
rvara i ici.	27	Temi 7th Quanty Womtoring Station (Temi City)	8/24 ~ 8/25	, 75	11 4
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	3.1	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		<u> </u>
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	29	HV
		Throshina City Rokumiji sumoi Trigii School(Throshina City)	9/14 ~ 9/15		
			9/19 ~ 9/26		
V	27	Yamaguchi Prefectural Institute of Public Health and	9/19 - 9/20	170	M
Yamaguchi Pref.		Environment(Yamaguchi City)		170	MV
		()			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		180	MV
		T 1 1' D C (1D 11' H 14 D) (' 1 1	9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	55	HV
101140111114 11411		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29		
			9/27 ~ 10/4		
77 D.C	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	9/2/~10/4	52	207
Kagawa Pref.				53	MV
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	33	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	31	HV
1 01100110 1 1011	J_	and the second s	9/27 ~ 9/28		
			9/19 ~ 9/26		
C D C	22		9/19 ~ 9/26	20	107
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		38	MV
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	ļ	
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	19	HV
		Environmental Science(Odo City)	10/5 ~ 10/6		
		11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand		3.4	MV
,	33	Environment(Miyazaki City)		3.1	111 1
			8/29 ~ 8/30		
Vti D C	26	Kagoshima Prefectural Institute for Environmental Research		15	1137
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31		HV
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8/31 ~ 9/1		
			8/28 ~ 8/29]	
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	1.9	HV
			8/30 ~ 8/31]	
		ı		1	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[20-3] trichlorinated Naphthalene/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	7.7
Median	7.3
Maximum	150
Minimum	1.2

Local	N	W 20 120	Warm	season	A: 1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	6.8	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.2	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.3	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	4.0	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	5.6	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	6.7	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	7.1	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	17	MV
	9	Chichijima Island	10/6 ~ 10/13	12	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	14	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	17	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	9.8	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	7.5	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	4.8	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	150	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	5.3	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	7.8	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	9.6	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	6.1	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$ \begin{array}{r} 10/3 \sim 10/4 \\ 10/4 \sim 10/5 \\ 10/5 \sim 10/6 \end{array} $	3.1	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	NO	Wolltored sites	Sampling dates	Measured value	Air sampier
		0.1 1.4 P.C. 4 P.T. P.T. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	13	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30	4.0	
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31		HV
niyogo i ici.		Try ogo i refectarar Environmentar researen center(resse city)	8/31 ~ 9/1		11.
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 9/13	82	HV
Kobe City	23	Robe City Government Building(Robe City)		02	11 V
			9/14 ~ 9/15		
N D C	2.4	T : A: O I': M :: S(:: (T :: G':)	8/22 ~ 8/23	12	1117
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	13	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	1.6	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	13	HV
			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	3,13 3,20	18	MV
I umagaem I ren	21	Environment(Yamaguchi City)			1,1,
			9/19 ~ 9/26		
	28	Hazi Myanya (Hazi City)	9/19 9/20	22	MV
	20	Hagi Museum(Hagi City)		22	IVI V
			9/26 ~ 9/27		
T 1 1: D C	29	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)		6.4	****
Tokushima Pref.			9/27 ~ 9/28		HV
		` */	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		9.5	MV
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	5.3	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	11	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		7.3	MV
		Saga i referencia Environmental Research Center(Saga City)			=:= 1
		+	10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	5.5	HV
Kumamow i ici.	J-T	Environmental Science(Udo City)	10/4 10/5	3.5	11 V
Missagal-: D C	35	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12	2.6	MS7
Miyazaki Pref.	33	Environment(Miyazaki City)		2.6	MV
			0/20 0/20		
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		***
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	9.0	HV
			8/31 ~ 9/1		
			8/28 ~ 8/29]	
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	1.7	HV
			8/30 ~ 8/31]	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[20-4] tetrachlorinated Naphthalene/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	7.1
Median	6.8
Maximum	120
Minimum	0.54

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	3.9	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.81	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.6	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	5.3	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	3.7	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	5.4	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	4.6	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	11	MV
	9	Chichijima Island	10/6 ~ 10/13	4.3	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	13	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	26	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	17	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	6.1	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	3.8	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	120	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	5.9	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	7.4	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	12	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	2.9	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	6.8	HV

Local	NI.	Monitored sites	Warm	Air sampler	
communities	No		Sampling dates	Measured value	Air sampier
		Onder Initiat Professional Community Profiling Profiling 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	28	HV
		Annex(Osaka City)	9/21 ~ 9/22	1	
		Hyogo Prefectural Environmental Research Center(Kobe City)	8/29 ~ 8/30		
Hyogo Pref.	22		8/30 ~ 8/31	6.2	HV
11) 080 11011		l sego i rerectana zavinemana recomen contentino conten	8/31 ~ 9/1	0.2	
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/12 9/13	90	HV
Root City	23	Robe City Government Bunding(Robe City)		90	11 V
			9/14 ~ 9/15		
N. D. C	2.4	To the Oute Market Great (To the City)	8/22 ~ 8/23	21	****
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	21	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	1.0	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	26	HV
·			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	3,13 3,20	12	MV
r umagaem r rer.	21	Environment(Yamaguchi City)		12	111 1
			9/19 ~ 9/26		
	28 Hagi Museum(Hagi City)	9/19 - 9/20	11	M37	
		Hagi Museum(Hagi City)		11	MV
			0/0/ 0/07		
	29	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)	9/26 ~ 9/27		
Tokushima Pref.			9/27 ~ 9/28	7.0	HV
			9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		6.9	MV
		Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23		
Ehime Pref.	31		8/23 ~ 8/24	12	HV
			8/24 ~ 8/25]	
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	11	HV
		Sind City Soveriment Building (Sindia City)	9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)), 1)), 10	5.0	MV
5454 1 101.	55	Saga 112100talai Environmentai Rescaron Contel(Saga City)		5.0	111 1
			10/3 ~ 10/4	+	
Vumamata Duct	2.4	Kumamoto Prefectural Institute of Public Health and		2 7	III.
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	3.7	HV
			10/5 ~ 10/6		
100	2.5	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12	2.0	
Miyazaki Pref.	35	Environment(Miyazaki City)		2.0	MV
		` ' ' ' ' '			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	13	HV
		and I done Heatin(Kagosiiinia City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	0.54	HV
			8/30 ~ 8/31		
	_	l ncv (site) is based on the number of sites, thus means (the numbe		1 1 6	1

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[20-5] pentachlorinated Naphthalene/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	1.3
Median	1.4
Maximum	14
Minimum	0.05

Local	No	Monitored sites		season Measured value	Air sampler
communities			Sampling dates 10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	1.1	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.11	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.35	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	1.5	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	0.45	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.85	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.71	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	1.9	MV
	9	Chichijima Island	10/6 ~ 10/13	0.09	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	3.3	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	4.0	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	8.2	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	1.1	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.59	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	14	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	1.6	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1.9	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	6.8	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.46	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	1.4	HV

Local	NI.	Maniferentiale	Warm	season	A :1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
		O I I I D C + I C + D TF D TF A	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2 Annex(Osaka City)	9/20 ~ 9/21	6.6	HV
			9/21 ~ 9/22	1	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	1.2	1137
nyogo Piei.	22	Hyogo Prefectural Environmental Research Center(Robe City)		1.2	HV
			8/31 ~ 9/1		
			9/12 ~ 9/13]	
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	5.8	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	3.9	HV
		((())	8/24 ~ 8/25	1	
			9/26 ~ 9/27		
CI. D.C	25	OLING TABLE OF A COLUMN		0.14	1117
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	0.14	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	5.7	HV
			9/14 ~ 9/15	İ	
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	7/17 7/20	1.3	MV
i amagucin i ici.		Environment(Yamaguchi City)		1.5	IVI V
			0/10 0/26		
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.98	MV
	29	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)	9/26 ~ 9/27		
Tokushima Pref.			9/27 ~ 9/28	2.1	HV
			9/28 ~ 9/29	1	
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	7/2/ 10/4	1.9	MV
Kagawa 1 ICI.				1.9	IVI V
			0/22 0/22		
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	4.4	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	3.9	HV
			9/27 ~ 9/28	1	
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	2112 2120	0.93	MV
Saga I ICI.	33	Saga Frederica Environmental Research Center(Saga City)		0.73	141 A
		 	10/2 10/4		
	١	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	∤	
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	1.1	HV
		(())	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	3		0.23	MV
•		Environment(Miyazaki City)			
			8/29 ~ 8/30		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	2.1	HV
Kagosiiilla Fiel.	30	and Public Health(Kagoshima City)		۵.1	11 V
		. = */	8/31 ~ 9/1		
			8/28 ~ 8/29	ļ l	
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	tr(0.05)	HV
			8/30 ~ 8/31]	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[20-6] hexachlorinated Naphthalene/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

	stats
Geometric mean	0.12
Median	0.12
Maximum	1.2
Minimum	0.01

Local	NI-	Maniferralaites	Warm	season	A:1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	0.22	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.01)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.07	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.17	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	0.05	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.11	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	0.10	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	0.17	MV
	9	Chichijima Island	10/6 ~ 10/13	tr(0.01)	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.33	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	0.33	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	0.66	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.11	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.05	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.35	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.11	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.19	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	1.2	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.05	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	0.08	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	No Monitored sites		Measured value	All sampler
		0.1 1.1 (P.C.) 1.0 (P.T. P.T. 2	9/19 ~ 9/20	0.46	
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21		HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Prof	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	0.09	HV
Hyogo Pref.	22	Tryogo i refecturar Environmentar Research Center(Robe City)		0.09	11 V
			8/31 ~ 9/1		
** 1 60		T 1 G 2 G 2 T 1 T 1 G 2 C 2	9/12 ~ 9/13		****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	0.32	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23	0.27	
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(0.02)	HV
		,	9/28 ~ 9/29	(, ,)	
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	0.33	HV
Till Osiililia City	20	Throshinia City Kokutaiji Julioi Tiigii School(Tiiroshinia City)		0.55	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City)	9/19 ~ 9/26		
Yamaguchi Pref.	27			0.08	MV
		Environment (Tuninguent City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.08	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	0.20	HV
101140111114 11411		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	0.20	
			9/27 ~ 10/4		
Kagawa Pref.	20	Vacanya Duafaatanal Dublia Syrimamina Daal/Talramatan City)	9/27 10/4	0.20	MV
Kagawa Piei.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		0.20	1V1 V
			0/22 0/22		
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	0.27	
Ehime Pref.			8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.42	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		0.10	MV
		Saga 110100 mai Environmentar resourer content(buga city)			=: ± *
			10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	0.12	HV
Kumamoto Pref.	34	Environmental Science(Udo City)		0.12	11 V
			10/5 ~ 10/6		
	2.5	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		0.03	MV
		()			
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36		8/30 ~ 8/31	0.16	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	tr(0.01)	HV
Skinawa 1101.	31	Cape riedo(Kunigaini vinage)	8/30 ~ 8/31	4(0.01)	11.7
1	l		0/30 - 0/31	I I	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

 $⁽Note\ 4)\ tr: detection\ limit\ value\ and\ more,\ less\ than\ Quantification\ limit\ value.$

[20-7] heptachlorinated Naphthalene/air (pg/m3)

Monitored year :2017

Detection Frequency (site):12/37(Missing value:0)
Detection Frequency (sample):12/37(Missing value:0)

	stats
Geometric mean	nd
Median	nd
Maximum	0.1
Minimum	nd

Local	2.7		Warm	season	
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.10	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	nd	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.03)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	nd	MV
-	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.05)	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.04)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	tr(0.03)	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.03)	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	nd	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	nd	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.04)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	nd	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	nd	HV

Local	No	Monitoned sites	Warm	season	A in gamentan
communities	No Monitored sites		Sampling dates	Measured value	Air sampler
		0.1 1: (P.C.) 10 (P.H. P.H. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	tr(0.05)	HV
		Annex(Osaka City)	9/21 ~ 9/22	` ′	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	nd	HV
riyogo Prei.	22	Tryogo i refecturar Environmentar Research Center(Robe City)		nu	11 V
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	nd	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23	tr(0.05)	
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24		HV
			8/24 ~ 8/25	1	
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	nd	HV
Simmane 1 ter.	23		9/28 ~ 9/29	nu nu	11 4
			9/12 ~ 9/13		
TT: 1: C:	26	W. 1: G. W.1 H. 1 G.1 1 (W. 1: G.)		,	****
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	nd	HV
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27			nd	MV
		Environment(Yamaguchi City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)	J. 13 J. 20	nd	MV
	20	riagi wuseum(riagi City)		nu	1V1 V
			9/26 ~ 9/27		
T-11 Df	29	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)		1	1137
Tokushima Pref.			9/27 ~ 9/28	nd	HV
		` */	9/28 ~ 9/29		
			$9/27 \sim 10/4$		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		nd	MV
		Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	tr(0.04)	
Ehime Pref.	31		8/23 ~ 8/24		HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	tr(0,04)	HV
rukuoka Piei.				tr(0.04)	11 V
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.03)	MV
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		
Kumamoto Pref.	34		10/4 ~ 10/5	nd	HV
		Environmental Science(Udo City)	10/5 ~ 10/6]	
			9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand	715 7112	nd	MV
Wilyazaki Fiel.	33	Environment(Miyazaki City)		110	171 Y
			0/20 0/20		
	2 -	Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City)	8/29 ~ 8/30		****
Kagoshima Pref.	36		8/30 ~ 8/31	nd	HV
		IIIII IIIIIIIII (IIIII CIIII)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
			8/30 ~ 8/31	1	
		1	0,00 0,01		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

 $⁽Note\ 3)\ HV: High\ Volume\ Air\ Sampler\ ,\ MV:\ Medium\ Volume\ Air\ Sampler$

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[20-8] octachlorinated Naphthalene/air (pg/m3)

Monitored year :2017

Detection Frequency (site):33/37(Missing value:0) Detection Frequency (sample):33/37(Missing value:0)

	stats
Geometric mean	tr(0.02)
Median	tr(0.01)
Maximum	0.15
Minimum	nd

Local communities	No	Monitored sites	Warm Sampling dates	season Measured value	Air sampler
communities			$10/10 \sim 10/17$	ivicasured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 - 10/1/	tr(0.01)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.01)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(0.01)	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	0.15	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(0.02)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	0.03	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(0.01)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	tr(0.01)	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	0.03	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	tr(0.02)	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	tr(0.01)	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	0.03	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	tr(0.01)	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.06	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	0.05	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	nd	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	tr(0.01)	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(0.02)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(0.01)	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	All Sampler
		0.1 1.4 P.C. 4 P.T. P.T. 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	0.04	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	nd	HV
Tryogo Tici.	22	Tryogo i refecturar Environmentar Research Center(Robe City)		nu	11 V
			8/31 ~ 9/1		
** 1 6'		r t go g	9/12 ~ 9/13	(0.04)	****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	tr(0.01)	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	0.06	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	tr(0.01)	HV
		, ,	9/28 ~ 9/29	(, ,	
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	tr(0.01)	HV
Till Osiililia City	20	Throshinia City Kokutaiji Julioi Trigli School(Throshinia City)		u(0.01)	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	(0.00)	
Yamaguchi Pref.	27	Environment(Yamaguchi City)		tr(0.02)	MV
		Environment (Tuningueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		0.03	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	tr(0.01)	HV
101140111114 11411		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	4 (0.01)	11.
			9/27 ~ 10/4		
V D C	20	V Doub Doublin Coming to Doubling City	9/2/~10/4	±-(0,01)	MV
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		tr(0.01)	MV
			0/00 0/00		
		Ehime Prefectural Government Nanyo Regional	8/22 ~ 8/23	±-(0,01)	
Ehime Pref.	31	Office(Uwajima City)	8/23 ~ 8/24	tr(0.01)	HV
		omes(owajina ony)	8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	0.08	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(0.02)	MV
2.5. 1101.	23			(0.02)	2.2 1
			10/3 ~ 10/4		
Vyymamata Da C	2.4	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4	t=(0,01)	1117
Kumamoto Pref.	34	Environmental Science(Udo City)		tr(0.01)	HV
		. • .	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		_
Miyazaki Pref.	35	Environment(Miyazaki City)		tr(0.01)	MV
		Zara amilon (ini juzuki Gitj)			
Kagoshima Pref.		Vaccahima Profestural Institute for Environmental D	8/29 ~ 8/30		
	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31	tr(0.01)	HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	` ′	
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	nd	HV
Okiliawa Fiel.	31	Cape Hedo(Kuingaini vinage)		iiu	11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

[21] Hexachlorobuta-1,3-diene/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :20 Quantification limit :60

	stats
Geometric mean	4,200
Median	4,000
Maximum	23,000
Minimum	1,100

Local	No	Monitored sites	Warm Sampling dates	Manager d value	Air sampler	
communities			10/10 ~ 10/17	Measured value 2,600		
TT-1:1::4-	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/1/	1,900	M77	
Hokkaido	1	Rushiro General Suoprefectural Bureau (Rushiro City)		2,100	MV	
			9/12 ~ 9/13	3,000		
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13	4,400	HV	
Sapporo City	2	Sapporo Art I ark(Sapporo City)	9/13 ~ 9/14		11 V	
			9/14 ~ 9/13 9/12 ~ 9/13	3,100 3,700		
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13	4,900	HV	
Iwate Fiel.	3	Sugo Ali Quanty Monitoring Station (Takizawa City)	9/13 ~ 9/14	4,100	11 V	
			9/14 ~ 9/13	2,500		
Missoci Duof	4	Miyagi Prefectural Institute of Public Health and	9/3 - 9/12	2,300	MV	
Miyagi Pref.	4	Environment(Sendai City)		2,700	IVI V	
			8/23 ~ 8/30			
Vamagata Duaf	5	Vanna acta Instituta of Environmental Saign aca(Manayanna City)	8/23 ~ 8/30	5,000	MV	
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)		2,500	MV	
			0/6 0/12	7,100		
H 1:D C		Ibaraki Kasumigaura Environmental Science Center(Tsuchiura	9/6 ~ 9/13	2,300	207	
Ibaraki Pref.	6	City)		2,500	MV	
			2/12 2/22	2,800		
	_	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara	9/13 ~ 9/20	4,800		
Chiba Pref.	7	City)		4,500	MV	
		**		3,100		
		Tokyo Metropolitan Research Institute for Environmental	9/19 ~ 9/26	3,300		
Tokyo Met.	8	Protection(Koto Ward)		8,400	MV	
		Trotection(ixoto ward)		6,500		
			10/6 ~ 10/13	2,600		
	9	Chichijima Island		3,100	MV	
				2,700		
	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6	2,200		
Kanagawa Pref.			9/6 ~ 9/7	2,400	HV	
			9/7 ~ 9/8	2,500		
		Will Bright and Bright	9/19 ~ 9/22	3,400		
Yokohama City	11	Yokohama Environmental Science Research		9,700	MV	
-		Institute(Yokohama City)		6,400		
			8/22 ~ 8/23	3,700		
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/23 ~ 8/24	4,200	HV	
g		Oyuma 7th Quanty Montoring Station(17thgata City)	8/24 ~ 8/25	3,400		
			9/19 ~ 9/20	4,600		
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/20 ~ 9/21	12,000	HV	
10,41114111111	13	Tonaini Ali Quanty Monitoring Station (Tonaini City)	9/21 ~ 9/22	7,900		
			9/5 ~ 9/6	2,300		
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and	9/6 ~ 9/7	2,500	HV	
Isilikawa 1 ICI.	17	Environmental Science(Kanazawa City)	9/7 ~ 9/8	3,700	11 V	
			9/12 ~ 9/13	3,600		
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and	9/12 ~ 9/13 9/13 ~ 9/14	5,000	HV	
i amanasin Piel.	13	Environment(Kofu City)	9/13 ~ 9/14 9/14 ~ 9/15	*****	11 V	
			9/14 ~ 9/13 9/20 ~ 9/27	4,600		
Nagana Beaf	14	Nagano Environmental Conservation Research	9/20 ~ 9/2/	8,500	MI	
Nagano Pref.	16	Institute(Nagano City)		6,800	MV	
			0/12 0/12	6,300		
0.0 0.0	1.7	Gifu Prefectural Research Institute for Health and	9/12 ~ 9/13	3,800	7777	
Gifu Pref.	17	Environmental Sciences(Kakamigahara City)	9/13 ~ 9/14	4,500	HV	
		, , , ,	9/14 ~ 9/15	4,200		
		ati w two b to a	8/29 ~ 9/5	4,000		
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)		5,200	MV	
				2,300		
		Mie Prefecture Health and Environment Research	9/19 ~ 9/20	6,000		
Mie Pref.	19	Institute(Yokkaichi City)	9/20 ~ 9/21	9,400	HV	
		institute(Tokkuloni City)	9/21 ~ 9/22	5,600		
			10/3 ~ 10/4	3,400		
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	10/4 ~ 10/5	2,800	HV	
,	11,000 1101.	1 20	i - i	10/5 ~ 10/6	3,200	

Local	NI.	Maniferralaites	Warm	season	A :1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
		O I I O O O O O O O O O O O O O O O O O	9/19 ~ 9/20	8,200	
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	11,000	HV
		Annex(Osaka City)	9/21 ~ 9/22	6,000	
			8/29 ~ 8/30	4,200	
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	3,600	HV
, 8			8/31 ~ 9/1	1,900	
			9/12 ~ 9/13	5,800	
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	4,800	HV
,		30	9/14 ~ 9/15	4,500	
			8/22 ~ 8/23	1,500	
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	1,500	HV
rvara i ici.	2-1	Tenir An Quanty Mointoring Station (Tenir City)	8/24 ~ 8/25	1,200	11 1
			9/26 ~ 9/27	7,100	
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	4,200	HV
Sillilane Fiel.	23	Oki National Acid Kani Ooselvatory(Okinosinina Town)	9/28 ~ 9/29	4,000	11 V
III	20	Himselines City Kalentaill Innie, Hill City (1777)	9/12 ~ 9/13	5,100	7.75.7
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	4,500	HV
			9/14 ~ 9/15	4,000	
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26	20,000	
Yamaguchi Pref.	27	27 Environment(Yamaguchi City)		21,000	MV
				12,000	
		28 Hagi Museum(Hagi City)	9/19 ~ 9/26	23,000	
	28			20,000	MV
				7,700	
		Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27	4,700	
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	3,300	HV
		Environmental Sciences Center (Tokusinina City)	9/28 ~ 9/29	4,000	
	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)	9/27 ~ 10/4	3,900	
Kagawa Pref.			ļ	4,400	MV
				4,300	
		Eli Dici IC (N. D.: 1	8/22 ~ 8/23	1,100	
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/23 ~ 8/24	1,200	HV
			8/24 ~ 8/25	1,100	
			9/25 ~ 9/26	8,300	
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	5,600	HV
			9/27 ~ 9/28	7,600	
			9/19 ~ 9/26	11,000	
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	22 2. 20	13,000	MV
		(Sugu Chy)		12,000	-: - *
			10/3 ~ 10/4	3,600	
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	3,500	HV
Kumamoto Pref.	57	Environmental Science(Udo City)	10/4 10/5	3,100	11 4
			9/5 ~ 9/12	2,600	
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand	71J 7 114	4,900	MV
iviiyazaki i ici.	33	Environment(Miyazaki City)		5,700	1 V1 V
			8/29 ~ 8/30		
Vacashi D. C	36	Kagoshima Prefectural Institute for Environmental Research		3,400	1117
Kagoshima Pref.	30	and Public Health(Kagoshima City)	8/30 ~ 8/31	7,000	HV
			8/31 ~ 9/1	3,200	
01: 7. 6	2-		8/28 ~ 8/29	1,600	****
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	2,100	HV
			8/30 ~ 8/31	3,600	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[22] Pentachlorophenol and its salts and esters/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :*0.7 Quantification limit :*1.8

	stats
Geometric mean	39
Median	42
Maximum	240
Minimum	6.7

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	13	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	8.7	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	24	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	61	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	64	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	59	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	60	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	97	MV
	9	Chichijima Island	10/6 ~ 10/13	6.7	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	240	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	94	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	140	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	48	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	20	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	75	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	42	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	34	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	37	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	14	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	33	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wollholed Sites	Sampling dates	Measured value	All sampler
		Onder Injust Burgarden I Community Building Building 2	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	44	HV
		Annex(Osaka City)	9/21 ~ 9/22	1	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	36	HV
, -8		, -g(8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	55	HV
Robe City	23	Robe City Government Bunding(Robe City)	9/13 9/14	33	11 V
N D	24	Touri Air Oralita Manitarina Station (Tauri Cita)	8/22 ~ 8/23	(5	1177
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	65	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	7.6	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	42	HV
			9/14 ~ 9/15	1	
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	99	MV
r umagaem r ren	27	Environment(Yamaguchi City)		,,	111 1
			9/19 ~ 9/26		
	20	Hazi Myanym (Hazi City)	9/19 9/20	130	MV
	28	Hagi Museum(Hagi City)		130	MV
			0/26 0/27		
T 1 1: D C	20	Tokushima Prefectural Public Health, Pharmaceutical and	9/26 ~ 9/27	24	****
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	24	HV
		` */	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		42	MV
		Ehime Prefectural Government Nanyo Regional	8/22 ~ 8/23	neso.	
Ehime Pref.	31		8/23 ~ 8/24	120	HV
		Office(Uwajima City)	8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	54	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	2112 2120	30	MV
Sugu I ICI.	33	Saga Trotoctulai Environmentai Rescaren Center(Saga City)		30	1 v1 V
			10/3 ~ 10/4		
Kumamoto Pref.	34	Kumamoto Prefectural Institute of Public Health and	10/4 ~ 10/5	20	ши
Kumamoto Pref.	54	Environmental Science(Udo City)		∠0	HV
			10/5 ~ 10/6		
	2.5	Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12	10	107
Miyazaki Pref.	35	Environment(Miyazaki City)		10	MV
		, , , , , , , , , , , , , , , , , , , ,			
Kagoshima Pref.		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	73	HV
		and I don't routin(reagonnine city)	8/31 ~ 9/1		
			8/28 ~ 8/29		<u> </u>
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	11	HV
			8/30 ~ 8/31	1	
		1			

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more. (Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

⁽Note 4) * : indicates the sum value of the Quantification [Detection] limits of each congener.

[22-1] Pentachlorophenol/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :0.2

Quantification limit :0.6

	stats
Geometric mean	4.6
Median	4.8
Maximum	33
Minimum	0.7

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates	Measured value	•
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	1.6	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	0.9	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	2.8	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	5.6	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	4.7	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	5.3	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	3.5	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	11	MV
	9	Chichijima Island	10/6 ~ 10/13	0.7	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	33	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	14	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	7.9	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	7.6	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	2.2	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	9.4	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	8.3	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	3.8	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	5.6	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	1.7	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	4.1	HV

Doska Pref. 21	Local	No	Monitored sites	Warm	season	Air sampler
Osaka Pref. 21 Osaka Joint Prefectural Government Building, Building 2 920 - 921 9.8 HV	communities	INO	Wollholed Sites	Sampling dates	Measured value	All sampler
Annex(Osaka City) Section Sect			0.1 1.4 P.C. 4 P.T. P.T. 2	9/19 ~ 9/20		
Hyogo Pref. 22 Hyogo Prefectural Environmental Research Center(Kobe City S29 = 8/30 S30 = 8/31 S48 HV S30 = 8/31 S48 HV S40 = 8/31 S41 S41 S42 = 8/32 S43 S44 S43 S44 S42 S44 S42 S44 S42 S44 S42 S44 S44 S44 S44 S44 S45	Osaka Pref.	21		9/20 ~ 9/21	9.8	HV
Hyogo Pref. 22 Hyogo Prefectural Environmental Research Center(Kobe City) 8/30 - 8/31 5.8 HV			Annex(Osaka City)			
Hyogo Pref. 22 Hyogo Prefectural Environmental Research Center(Kobe City) 8/30 - 8/31 5.8 HV						
Robe City 23	Hyogo Prof	22	Hyogo Prefectural Environmental Pessageh Center (Vohe City)		5.9	HV
Nara Pref. 24 Tenri Air Quality Monitoring Station(Tenri City) 9/12 - 9/13 9/13 - 9/14 9.2 HV	Tryogo Tici.	22	Tryogo i refecturar Environmentar Research Center(Robe City)		5.6	11 V
Nara Pref. 23 Kobe City Government Building(Kobe City)						
Nara Pref. 24 Tenri Air Quality Monitoring Station(Tenri City) 8/23 - 8/24 4.1 HV	** 1 60		r t at a r t at)		0.0	****
Nara Pref. 24 Tenri Air Quality Monitoring Station(Tenri City) 8/22 - 8/23 8/23 - 8/24 8.1 HV	Kobe City	23	Kobe City Government Building(Kobe City)		9.2	HV
Nara Pref. 24 Tenri Air Quality Monitoring Station(Tenri City) 8/23 - 8/24 8/24 - 8/25 8/24 - 8/25 8/24 - 8/25 8/24 - 8/25 8/26 - 9/27 9/27 - 9/28 9/26 - 9/27 9/27 - 9/28 9/28 - 9/20 HV						
September Sept				8/22 ~ 8/23		
Shimane Pref. 25 Oki National Acid Rain Observatory(Okinoshima Town) 9/27 - 9/28 0.9 HV	Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	4.1	HV
Shimane Pref. 25				8/24 ~ 8/25		
Hiroshima City 26				9/26 ~ 9/27		
Hiroshima City 26	Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	0.9	HV
Hiroshima City 26			,			
Hiroshima City 26						
Yamaguchi Pref. 27 Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City) 19 MV 28 Hagi Museum(Hagi City) 9/19 ~ 9/26 33 MV Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/26 ~ 9/27 / 9/28 / 9/27 ~ 9/28 / 9/27 ~ 9/28 / 9/27 ~ 9/28 4.2 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 ~ 10/4 / 4.8 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/22 ~ 8/23 / 8/24 / 11 / 11 / 11 / 11 / 11 / 11 / 11 /	Hirochima City	26	Hirochima City Vakutaiii Juniar High School (Hirochima City)		5.0	HV
Yamaguchi Pref. 27 Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City) 19 MV 28 Hagi Museum(Hagi City) 33 MV Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/26 - 9/27 9/28 9/29 9/29 9/27 - 9/28 4.2 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 - 10/4 4.8 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/22 - 8/23 8/23 - 8/24 11 HV 11 HV Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/26 - 9/27 9/28 9/26 - 9/27 9/28 9/27 9/26 9/27 9/27 9/28 5.5 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 9/26 - 9/27 9/28 9/19 - 9/26 3/20 9/27 9/28 9/19 - 9/26 3/20 9/27 9/27 9/28 9/19 - 9/26 3/20 9/27 9/28 9/27	Till Osiililia City	20	Throshinia City Kokutaiji Julioi Tilgii School(Tiiroshinia City)		3.9	11 V
Yamaguchi Pref. 27 Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City) 19 MV 28 Hagi Museum(Hagi City) 9/19 - 9/26 33 MV Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/26 - 9/27 - 9/28 - 9/29 - 9/28 - 9/29 - 9/27 - 10/4 4.2 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 - 10/4 - 10/4 - 10/4 - 10/5 - 10/6 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/5 - 10/6 - 10/6 - 10/5 - 10/6 - 10/6 - 10/5 - 10/6 - 10/6 - 10/5 - 10/6 - 10/6 - 10/5 - 10/6 - 10/6 - 10/6 - 10/5 - 10/6 - 10/6 - 10/6 - 10/5 - 10/6 - 10/6 - 10/6 - 10/6 - 10/5 - 10/6 -						
Environment(Yamaguchi City) 19 MV			Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
28 Hagi Museum(Hagi City) 9/19 ~ 9/26 33 MV	Yamaguchi Pref.	27			19	MV
Tokushima Pref. 29			Environment (Tamaguem City)			
Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/27 ~ 9/28 9/29 4.2 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 4.8 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/23 ~ 8/24 11 HV Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/25 ~ 9/26 9/27 5.5 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 9/19 ~ 9/26 3.6 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 ~ 10/5 ~ 10/6 10/5 ~ 10/6 10/5 ~ 10/6 10/5 ~ 9/12 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research Resea				9/19 ~ 9/26		
Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/27 ~ 9/28 9/29 4.2 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 4.8 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/23 ~ 8/24 11 HV Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/25 ~ 9/26 9/27 5.5 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 9/19 ~ 9/26 3.6 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 ~ 10/5 ~ 10/6 10/5 ~ 10/6 10/5 ~ 10/6 10/5 ~ 9/12 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research Resea		28	Hagi Museum(Hagi City)		33	MV
Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/27 ~ 9/28 9/28 ~ 9/29 Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 ~ 10/4 Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/22 ~ 8/23 Ehime Pref. 32 Omuta City Government Building(Omuta City) 9/25 ~ 9/26 Fukuoka Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 9/26 ~ 9/27 Saga Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/3 ~ 10/4 Environmental Science(Udo City) 10/5 ~ 10/6 Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research Rese						
Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/27 ~ 9/28 9/29 9/27 ~ 10/4 4.8 MV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 ~ 10/4 4.8 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/22 ~ 8/23 8/23 ~ 8/24 11 HV Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/26 ~ 9/25 ~ 9/26 9/27 ~ 9/28 Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 9/19 ~ 9/26 3.6 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 ~ 10/6 10/4 ~ 10/5 10/5 ~ 10/6 Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research Researc				9/26 ~ 9/27		
Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) Fukuoka Pref. 32 Omuta City Government Building(Omuta City) Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research Res	Tokushima Pref	29	· ·		4.2	HV
Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) Fukuoka Pref. 32 Omuta City Government Building(Omuta City) Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research 8/29 - 8/30 8/30 - 8/31 Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research 8/30 - 8/31 HV MV HV HV HV HV HV HV HV HV	TORUSHIMU TTET.	2)	Environmental Sciences Center(Tokushima City)		7.2	11 V
Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 4.8 MV						
Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) Fukuoka Pref. 32 Omuta City Government Building(Omuta City) Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research Rese		20	W D C + 1D 11' C : D 1/T 1 + C'+	9/2/~10/4	4.0	207
Ehime Pref. 31 Office(Uwajima City) Fukuoka Pref. 32 Omuta City Government Building(Omuta City) Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research Res	Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		4.8	MV
Ehime Pref. 31 Office(Uwajima City) Fukuoka Pref. 32 Omuta City Government Building(Omuta City) Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research Res						
Fukuoka Pref. 31 Office(Uwajima City) 8/25 ~ 8/24 11 HV Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/25 ~ 9/26 9/27 5.5 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 9/19 ~ 9/26 9/27 9/28 Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 ~ 10/6 10/5 10/5 ~ 10/6 Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research 8/29 ~ 8/30 8/30 ~ 8/31 4.0 HV			Fhime Prefectural Government Nanyo Regional			
Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/25 ~ 9/26 9/27 5.5 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 9/19 ~ 9/26 9/27 \sim 9/28 9/19 ~ 9/26 3.6 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/3 ~ 10/4 10/5 10/5 ~ 10/6 10/5 ~ 10/6 10/5 ~ 10/6 10/5 ~ 9/5 ~ 9/12 Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 4.0 HV	Ehime Pref.	31		8/23 ~ 8/24	11	HV
Fukuoka Pref. 32 Omuta City Government Building(Omuta City) $9/26 \sim 9/27$ 5.5 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) $9/19 \sim 9/26$ 3.6 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) $10/3 \sim 10/4$ 10/4 $\sim 10/5$ 10/5 $\sim 10/6$ Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) $9/5 \sim 9/12$ 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $8/29 \sim 8/30$ 8/30 $\sim 8/31$ 4.0 HV			Office(Owajima City)	8/24 ~ 8/25		
Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 3.6 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) $10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$ Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) $9/5 \sim 9/12$ MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $8/29 \sim 8/30$ $8/30 \sim 8/31$ 4.0 HV				9/25 ~ 9/26		
Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 3.6 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) $10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$ Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) $9/5 \sim 9/12$ MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $8/29 \sim 8/30$ $8/30 \sim 8/31$ 4.0 HV	Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	5.5	HV
Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) Saga Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Saga Prefectural Institute of Public Health and Environmental Science(Udo City) Miyazaki Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) Saga Prefectural Environmental Research Center(Saga City) 10/3 ~ 10/4 10/4 ~ 10/5 10/5 ~ 10/6 9/5 ~ 9/12 1.2 MV Sagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) Saga Prefectural Environmental Research Center(Saga City) 3.6 MV HV						
Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 3.6 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 ~ 10/6 10/5 ~ 10/6 Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 4.0 HV						
Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) Kagoshima Pref. 36 HV Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City)	Saga Draf	33	Saga Prefectural Environmental Passageh Cantar(Saga City)	J11J 3/4U	3.6	MV
Kumamoto Pref. 34 Rumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 ~ 10/6 3.8 HV Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/30 ~ 8/31 4.0 HV	Saga FICI.	33	Saga i refectural Environmental Research Center(Saga City)		3.0	1 V1 V
Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 ~ 10/6 Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/30 ~ 8/31 4.0 HV				10/2 10/4		
Kumamoto Pref. 34 Environmental Science(Udo City) 10/4 ~ 10/5	_		Kumamoto Prefectural Institute of Public Health and			
Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 4.0 HV	Kumamoto Pref.	34			3.8	HV
Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 4.0 HV			()/			
Miyazaki Pref. 35 Environment(Miyazaki City) 1.2 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) 4.0 HV			Miyazaki Prefectural Institute for Dublic Healthand	9/5 ~ 9/12		
Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) 4.0 HV	Miyazaki Pref.	35			1.2	MV
Kagoshima Pref. 36 Ragoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) 4.0 HV			Environment(iviiyazaki City)			
Kagoshima Pref. 36 Ragoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) 4.0 HV				8/29 ~ 8/30		
Land Public Health (Kagoshima City)	Kagoshima Pref	36			4.0	HV
0/31 - 7/1	Tagosiiiia i ici.	50	and Public Health(Kagoshima City)		4.0	11 4
9/20 9/20						
8/28 ~ 8/29	01: 7. 2	2-				****
Okinawa Pref. 37 Cape Hedo(Kunigami Village) 8/29 ~ 8/30 0.7 HV	Okinawa Pref.	37	Cape Hedo(Kunigami Village)		0.7	HV
8/30 ~ 8/31				8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[22-2] Pentachloroanisole/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :0.5 Quantification limit :1.2

	stats
Geometric mean	34
Median	36
Maximum	210
Minimum	6

Local communities	No	Monitored sites		season Measured value	Air sampler
communities			Sampling dates 10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	11	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	7.8	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	21	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	55	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	59	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	54	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	56	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	86	MV
	9	Chichijima Island	10/6 ~ 10/13	6.0	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	210	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	80	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	130	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	40	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	18	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	66	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	34	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	30	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	31	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	12	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	29	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	INO	Wionitored sites	Sampling dates	Measured value	All sampler
		O I I I D C . I C . D TT D TT A	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	34	HV
		Annex(Osaka City)	9/21 ~ 9/22	1	
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	30	HV
Hyogo Fiel.	22	Tryogo Frerecturar Environmentar Research Center(Robe City)		30	11 V
			8/31 ~ 9/1		
** 1 G':		r t at a r t at)	9/12 ~ 9/13		****
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	46	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	61	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	6.7	HV
		, ,	9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	36	HV
Till Oslillia City	20	Throshinia City Kokutaiji Julioi Tilgii School(Tiiroshinia City)		30	11 V
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		80	MV
		Environment (Tamagueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		93	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	20	HV
TOKUSHIHIA TTCI.	2)	Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	20	11 V
	20	W D C + 1D 11' C : D 1/T 1 + C'+	9/27 ~ 10/4	27	207
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		37	MV
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23		
Ehime Pref.			8/23 ~ 8/24	110	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	49	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)	2112 2120	26	MV
Saga I ICI.	55	Juga i refecturar Environmentar Research Center(Saga City)		20	1 v1 V
			10/2 - 10/4		
77	2.	Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		****
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	16	HV
		` ",	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		9.3	MV
		Environment(whyazaki City)			
		W 1: D C 4 11 (4 4 C D ; 12 D)	8/29 ~ 8/30	69	
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research	8/30 ~ 8/31		HV
		and Public Health(Kagoshima City)	8/31 ~ 9/1	"	'
			8/28 ~ 8/29		
Olrinari D. C	27	Care Hada(Vymiaami Village)		10	1137
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	10	HV
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[23] Short-chain chlorinated paraffins/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :*180 Quantification limit :*550

	stats
Geometric mean	1,300
Median	1,400
Maximum	5,700
Minimum	tr(210)

Local	N	W 2 12	Warm	A · 1	
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(210)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	800	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(470)	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	950	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	1,300	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	670	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	570	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	3,000	MV
	9	Chichijima Island	10/6 ~ 10/13	tr(310)	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	2,500	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	3,300	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	1,600	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	670	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	1,100	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	2,700	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	950	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	2,100	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	4,100	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	800	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(500)	HV

Local	NI.	Manitanadataa	Warm	season	A :1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
		0.1.71	9/19 ~ 9/20		
Osaka Pref.	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	3,100	HV
0 5 4 1 1 1 1 1		Annex(Osaka City)	9/21 ~ 9/22	3,100	
			8/29 ~ 8/30		
II Df	22	Harris Dougla de la Francisco de la Dougla de la Cita		1.500	1137
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	1,500	HV
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	5,700	HV
			9/14 ~ 9/15		
			8/22 ~ 8/23		
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	840	HV
rtara i ioi.		Temi in Quanty Montoring Station(Temi city)	8/24 ~ 8/25	. 0.0	11 1
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	700	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	1,600	HV
•			9/14 ~ 9/15	1	
			9/19 ~ 9/26		
Vama ayahi Daaf	27	Yamaguchi Prefectural Institute of Public Health and	9/19 9/20	1 000	MV
Yamaguchi Pref.	21	Environment(Yamaguchi City)		1,800	MV
		, <u>, , , , , , , , , , , , , , , , , , </u>			
			9/19 ~ 9/26		
	28	28 Hagi Museum(Hagi City)		1,400	MV
		T 1 11 P C + 1P 11 H 14 P	9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and	9/27 ~ 9/28	1,700	HV
		Environmental Sciences Center(Tokushima City)	9/28 ~ 9/29	. , , , , , ,	
			9/27 ~ 10/4		
V D £	20	W D C + 1 D 11' C : D 1/T 1 + C'()	9/2/ 10/4	1 400	MV
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		1,400	MV
		Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23		
Ehime Pref.	31		8/23 ~ 8/24	3,600	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	1,400	HV
		3/	9/27 ~ 9/28		
			9/19 ~ 9/26		
C D	22	C Desfective 1 Francisco and 1 Descent Contact (C Cit.)	9/19 - 9/20	940	MV
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		840	MV
			10/2 10/4		
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4]	
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	1,000	HV
		Environmental belonce (out only)	10/5 ~ 10/6		
		M. I'D C . II C . C D II' II II I	9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand		2,400	MV
,		Environment(Miyazaki City)			-:- *
			8/29 ~ 8/30	+	
IZ 1: D 0	26	Kagoshima Prefectural Institute for Environmental Research		2 200	****
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	2,300	HV
		(60)	8/31 ~ 9/1		
			8/28 ~ 8/29	j T	
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	tr(460)	HV
			8/30 ~ 8/31	<u> </u>	
			0.01	1	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

 $⁽Note\ 3)\ HV: High\ Volume\ Air\ Sampler\ ,\ MV:\ Medium\ Volume\ Air\ Sampler$

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected

⁽Note 6) \ast : indicates the sum value of the Quantification [Detection] limits of each congener.

[23-1] Chlorinated decanes/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :50 Quantification limit :140

	stats
Geometric mean	370
Median	380
Maximum	1,500
Minimum	tr(70)

Local	No	Monitored sites		season	Air sampler
communities			Sampling dates	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(80)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	480	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	180	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	320	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	630	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	220	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	180	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	790	MV
	9	Chichijima Island	10/6 ~ 10/13	tr(70)	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	590	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	900	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	520	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	310	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	330	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1000	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	380	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	350	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	770	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	200	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	210	HV

Local	No	Monitored sites	Warm	season	Air sampler
communities	110	Monitored sites	Sampling dates	Measured value	All samples
	21	Only Initiat Professional Community Profiles Profiles 2	9/19 ~ 9/20		
Osaka Pref.		Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	1000	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	510	HV
, -8			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	1,500	HV
Robe City	23	Robe City Government Bunding(Robe City)	9/13 9/14	1,500	11 V
N D	24	Touri Air Oralita Manitarina Station (Tauri Cita)	8/22 ~ 8/23	220	1117
Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	230	HV
			8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	200	HV
			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	540	HV
			9/14 ~ 9/15		
			9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and), 1)), <u>2</u> 0	620	MV
1 umagaem 1 ien	_,	Environment(Yamaguchi City)		020	112 1
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)	9/19 9/20	420	MV
	20	riagi wuseum(riagi City)		420	IVI V
			9/26 ~ 9/27		
T 1 1: D C	20	Tokushima Prefectural Public Health, Pharmaceutical and		410	****
Tokushima Pref.	29	Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	410	HV
		` */	9/28 ~ 9/29		
			9/27 ~ 10/4		
Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		270	MV
		Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23		
Ehime Pref.	31		8/23 ~ 8/24	530	HV
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	460	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City))11) J120	300	MV
Sugu I ICI.	23	Saga Protectural Environmental Research Center(Saga City)		500	171 Y
			10/3 ~ 10/4		
Variant D. C	2.4	Kumamoto Prefectural Institute of Public Health and		100	1177
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	180	HV
		. "/	10/5 ~ 10/6		
		Miyazaki Prefectural Institute for Public Healthand	9/5 ~ 9/12		
Miyazaki Pref.	35	Environment(Miyazaki City)		260	MV
		(
		Kagoshima Prefectural Institute for Environmental Research	8/29 ~ 8/30		
Kagoshima Pref.	36	and Public Health(Kagoshima City)	8/30 ~ 8/31	520	HV
		and ruone reann(Nagosinna City)	8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	200	HV
	-,	1(8/30 ~ 8/31		*
[0,50 0,51		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples). (Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler, MV: Medium Volume Air Sampler

[23-2] Chlorinated undecanes/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :60 Quantification limit :190

	stats
Geometric mean	500
Median	510
Maximum	2,300
Minimum	tr(90)

Local	No	Monitored sites		season Measured value	Air sampler
communities			Sampling dates 10/10 ~ 10/17	Measured value	
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(90)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	240	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(130)	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	360	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	420	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	240	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	190	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	1,400	MV
	9	Chichijima Island	10/6 ~ 10/13	210	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	1,200	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	1,300	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	610	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	200	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	430	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	940	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	320	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	1,200	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	2,100	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	350	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(180)	HV

Osaka Pref. 21 Osaka Joint Prefectural Government Building, Building 2 9/19 - 9/20 1,300 HV	Local	No	Monitored sites	Warm	season	Air sampler
Osaka Pref. 21 Annex (Osaka City) 9/20 - 9/21 1,300 HV	communities	140	Wionitored sites	Sampling dates	Measured value	All sampler
Desida Pref. 21			Ocales Isint Busfactural Covernment Building Building 2	9/19 ~ 9/20		
Hyogo Pref. 22 Hyogo Prefectural Environmental Research Center(Kobe City) 8/29 - 8/30 8/30 - 8/31 520 HV	Osaka Pref.	21	<i>5</i> , <i>5</i>	9/20 ~ 9/21	1,300	HV
Hyogo Pref. 22 Hyogo Prefectural Environmental Research Center(Kobe City) 8/30 - 8/31 520 HV					,	
Hyogo Pref. 22 Hyogo Prefectural Environmental Research Center(Kobe City) 831 - 9/1 831 - 9/1 1,900 HV						
Kobe City 23 Kobe City Government Building(Kobe City) 9/13 - 9/14 1,900 11V 9/14 - 9/15 1,900 11V 9/15 - 9/26 100 11V 11	Hyogo Pref	22	Hyogo Prefectural Environmental Research Center(Kobe City)		520	HV
Kobe City 23 Kobe City Government Building(Kobe City) 9/13 - 9/14 1,900 HV	Tryogo Tici.	22			320	11 V
Nara Pref. 24 Tenri Air Quality Monitoring Station(Tenri City) 9/13 - 9/14 1,900 HV						
Nara Pref. 24 Tenri Air Quality Monitoring Station(Tenri City) 8/22 - 8/23 8/24 - 8/25 8	W 1 C'	22	K 1 C' C (P '11' (K 1 C'))		1.000	1117
Nara Pref. 24 Tenri Air Quality Monitoring Station(Tenri City) 8/22 - 8/23 8/24 - 8/25 8/26 - 9/27 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/28 - 9/29 9/29 - 9/26 670 MV 9/14 - 9/15 8/24 - 8/25 8/24 8/25 8/24 8/24 8/24 8/24 8/24 8/25 8/24 8/24 8/25 8/24 8/24 8/25 8/24 8/24 8/25 8/24 8/24 8/25 8/25	Kobe City	23	Kobe City Government Building(Kobe City)		1,900	HV
Nara Pref. 24 Tenri Air Quality Monitoring Station(Tenri City) 8/23 - 8/24 8/24 - 8/25 8/24 - 8/25 8/24 - 8/25 8/26 - 9/27 9/28 210 HV						
Shimane Pref. 25						
Shimane Pref. 25 Oki National Acid Rain Observatory(Okinoshima Town) 9/26 - 9/27 9/28 - 9/29 210 HV	Nara Pref.	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24	280	HV
Shimane Pref. 25				8/24 ~ 8/25		
Hiroshima City 26				9/26 ~ 9/27		
Hiroshima City 26	Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	210	HV
Hiroshima City 26		-	, ,			
Hiroshima City 26						
Yamaguchi Pref. 27 Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City) 530 MV 28 Hagi Museum(Hagi City) 9/19 - 9/26 670 MV Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/26 - 9/27 - 9/28 - 9/29 - 9/28 - 9/29 - 9/27 - 9/28 - 9/29 - 9/27 - 10/4 630 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 - 9/28 - 9/29 - 9/27 - 10/4 690 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/22 - 8/23 - 8/24 - 2,300 - 8/27 - 9/28 - 8/25 10 HV Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/25 - 9/26 - 9/27 - 9/28	Hirochima City	26	Hirochima City Vakutaiii Juniar High School (Hirochima City)		610	HV
Yamaguchi Pref. 27 Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City) 9/19 ~ 9/26 530 MV 28 Hagi Museum(Hagi City) 9/19 ~ 9/26 670 MV Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/26 ~ 9/27 9/27 ~ 9/28 630 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 ~ 10/4 690 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/22 ~ 8/23 2.300 HV Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/25 ~ 9/26 9/25 ~ 9/27 510 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 9/19 ~ 9/26 280 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Research Center(Saga City) 10/3 ~ 10/4 10/4 ~ 10/5 480 HV Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environmental Research and Public Health(Kagoshima City) 8/29 ~ 8/30	Till Osiililia City	20	Throshinia City Kokutaiji Julioi Tilgii School(Tiiroshinia City)		010	11 V
Yamaguchi Pref. 27 Yamaguchi Prefectural Institute of Public Health and Environment(Yamaguchi City) 530 MV 28 Hagi Museum(Hagi City) 670 MV Tokushima Pref. 29 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City) 9/26 ~ 9/27 / 9/27 ~ 9/28 / 9/28 ~ 9/29 630 HV Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 ~ 10/4 690 MV Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) 8/22 ~ 8/23 / 8/24 / 8/25 / 2/300 2,300 HV Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/25 ~ 9/26 / 9/27 / 9/28 / 9/26 - 9/27 510 HV Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 280 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Research Center (Saga City) 10/3 ~ 10/4 / 10/5 / 10/6 480 HV Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1,800 MV Kagoshima Prefectural Institute for Environmental Research a						
Yamaguch Pet. 27			Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
28 Hagi Museum(Hagi City)	Yamaguchi Pref.	27			530	MV
28 Hagi Museum(Hagi City) 670 MV			Environment (Tamaguem City)			
Tokushima Pref. 29				9/19 ~ 9/26		
Tokushima Pref. 29		28	Hagi Museum(Hagi City)		670	MV
Tokushima Pref. 29						
Tokushima Pref. 29				9/26 ~ 9/27		
Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/28 ~ 9/29	Tokushima Pref	29	,		630	HV
Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 9/27 ~ 10/4 690 MV	TOKUSHIHIU TTCI.	2)	Environmental Sciences Center(Tokushima City)		050	11 V
Kagawa Pref. 30 Kagawa Prefectural Public Swimming Pool(Takamatsu City) 690 MV						
Ehime Pref. 31 Ehime Prefectural Government Nanyo Regional Office(Uwajima City) Fukuoka Pref. 32 Omuta City Government Building(Omuta City) Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research Signal Profectural Signal Prefectural Institute for Environmental Research Signal Prefectural Institute Sign		20		9/2/~10/4	600	
Ehime Pref. 31	Kagawa Pref.	30	Kagawa Prefectural Public Swimming Pool(Takamatsu City)		690	MV
Ehime Pref. 31						
Saga Pref. 31 Office(Uwajima City) 8/24 ~ 8/24 2,300 HV						
Fukuoka Pref. 32 Omuta City Government Building(Omuta City) 9/25 ~ 9/26 9/27 9/27 9/28 Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 9/19 ~ 9/26 280 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 ~ 10/6 480 HV Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1,800 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/29 ~ 8/30 8/31 820 HV Okinawa Pref. 37 Cape Hedo(Kunigami Village) 8/29 ~ 8/30 tr(140) HV	Ehime Pref.	31		8/23 ~ 8/24	2,300	HV
Fukuoka Pref. 32 Omuta City Government Building(Omuta City)				8/24 ~ 8/25		
Fukuoka Pref. 32 Omuta City Government Building(Omuta City)						
Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City)	Fukuoka Pref.	32	Omuta City Government Building(Omuta City)		510	HV
Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City)			,			• •
Saga Pref. 33 Saga Prefectural Environmental Research Center(Saga City) 280 MV Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) 10/5 \sim 10/6 10/5 \sim 10/6 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1,800 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/29 \sim 8/30 MV Okinawa Pref. 37 Cape Hedo(Kunigami Village) 8/29 \sim 8/30 tr(140) HV						
Kumamoto Pref.34Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City) $10/3 \sim 10/4$ $10/5 \sim 10/6$ 480 HVMiyazaki Pref.35Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) $9/5 \sim 9/12$ $9/5 \sim 9/12$ $1,800$ MVKagoshima Pref.36Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $8/29 \sim 8/30$ $8/30 \sim 8/31$ $8/31 \sim 9/1$ 820 $8/31 \sim 9/1$ Okinawa Pref.37Cape Hedo(Kunigami Village) $8/28 \sim 8/29$ $8/29 \sim 8/30$ $1r(140)$ HV	Saga Drof	32	Saga Prafactural Environmental Passage Contag(Saga City)	1117 7140	280	MV
Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City)	Saga Frei.	33	Saga i refectural Environmental Research Center(Saga City)		200	1V1 V
Kumamoto Pref. 34 Kumamoto Prefectural Institute of Public Health and Environmental Science(Udo City)				10/2 10/1		
Kumamoto Pref. 34 Environmental Science(Udo City) $\frac{10/4 \sim 10/5}{10/5 \sim 10/6}$ Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) $\frac{9/5 \sim 9/12}{1,800}$ Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $\frac{8/29 \sim 8/30}{8/30 \sim 8/31}$ Okinawa Pref. 37 Cape Hedo(Kunigami Village) $\frac{8/28 \sim 8/29}{8/29 \sim 8/30}$ tr(140) HV			Kumamoto Prefectural Institute of Public Health and			
Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1,800 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/29 \sim 8/30 MV Okinawa Pref. 37 Cape Hedo(Kunigami Village) 8/29 \sim 8/30 tr(140) HV	Kumamoto Pref.	34			480	HV
Miyazaki Pref. 35 Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City) 1,800 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) $8/30 \sim 8/31 \times 8/31 \sim 9/1$ Okinawa Pref. 37 Cape Hedo(Kunigami Village) $8/29 \sim 8/30 \times 8/31 \times 9/1$ HV			Zar. nominental belefice (ode only)	10/5 ~ 10/6		
Miyazaki Pref. 35 Environment(Miyazaki City) 1,800 MV Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City) 8/30 ~ 8/31 820 HV Okinawa Pref. 37 Cape Hedo(Kunigami Village) 8/29 ~ 8/30 tr(140) HV			Miyozoki Profestural Institute for Public Healthand	9/5 ~ 9/12		
Kagoshima Pref. 36 Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City)	Miyazaki Pref.	35	-		1,800	MV
Kagoshima Pref. 36 Ragoshima Prefectural institute for Environmental Research and Public Health(Kagoshima City)	_		Environment(Miyazaki City)			
Kagoshima Pref. 36 Ragoshima Prefectural institute for Environmental Research and Public Health(Kagoshima City)	Kagoshima Pref			8/29 ~ 8/30		
And Public Health(Kagoshima City) 8/31 ~ 9/1		36			820	HV
Okinawa Pref. 37 Cape Hedo(Kunigami Village) 8/28 ~ 8/29 tr(140) HV	ragosinila i ici.	30	and Public Health(Kagoshima City)		020	11 V
Okinawa Pref. 37 Cape Hedo(Kunigami Village) 8/29 ~ 8/30 tr(140) HV						
8/30 ~ 8/31	Okinawa Pref.	37	Cape Hedo(Kunigami Village)		tr(140)	HV
0/30 0/31				8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

 $⁽Note\ 4)\ tr: detection\ limit\ value\ and\ more,\ less\ than\ Quantification\ limit\ value.$

[23-3] Chlorinated dodecanes/air (pg/m3)

Monitored year :2017

Detection Frequency (site):37/37(Missing value:0) Detection Frequency (sample):37/37(Missing value:0)

Detection limit :30 Quantification limit :100

	stats
Geometric mean	190
Median	190
Maximum	730
Minimum	tr(30)

Local	M.	Y 1 2	Warm	season	A: 1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	tr(40)	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(40)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(60)	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	160	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	130	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	110	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(90)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	460	MV
	9	Chichijima Island	10/6 ~ 10/13	tr(30)	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	480	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	690	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	300	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(80)	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	170	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	410	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	160	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	350	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	730	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	150	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(70)	HV

Local	M.	Manifernal altera	Warm season		A in an 1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Osaka Pref.		O I I I D C + I C + D TF D TF A	9/19 ~ 9/20		
	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	480	HV
	21	Annex(Osaka City)	9/21 ~ 9/22	1	
			8/29 ~ 8/30		
Hrvana Duaf	22	Uviana Brafactimal Environmental Bassanah Contan/Vaha City)	8/30 ~ 8/31	240	1137
Hyogo Pref.	22	Hyogo Prefectural Environmental Research Center(Kobe City)		240	HV
			8/31 ~ 9/1		
			9/12 ~ 9/13		
Kobe City	23	Kobe City Government Building(Kobe City)	9/13 ~ 9/14	710	HV
			9/14 ~ 9/15		
Nara Pref.			8/22 ~ 8/23	170	
	24	Tenri Air Quality Monitoring Station(Tenri City)	8/23 ~ 8/24		HV
		(8/24 ~ 8/25		
			9/26 ~ 9/27		
Shimane Pref.	25	Oki National Acid Rain Observatory(Okinoshima Town)	9/27 ~ 9/28	160	HV
Similane 1 ici.	23		9/28 ~ 9/29		11 V
*** 11 60	26	*** ** ***	9/12 ~ 9/13	250	****
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	270	HV
			9/14 ~ 9/15		
		Vamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Yamaguchi Prefectural Institute of Public Health and		300	MV
_		Environment(Yamaguchi City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		150	MV
	20	riagi wascam(riagi city)		150	141 4
			9/26 ~ 9/27		
T 1 1: D C	29	Tokushima Prefectural Public Health, Pharmaceutical and		420	HV
Tokushima Pref.		Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28		
		` ''	9/28 ~ 9/29		
	30		9/27 ~ 10/4	250	MV
Kagawa Pref.		Kagawa Prefectural Public Swimming Pool(Takamatsu City)			
		El: D C + 1C + (N D : 1	8/22 ~ 8/23		
Ehime Pref.	31	Ehime Prefectural Government Nanyo Regional	8/23 ~ 8/24	500	HV
		Office(Uwajima City)	8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	200	HV
Tukuoka 11ci.	32	Officia City Government Building(Officia City)		200	11 V
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		150	MV
		Kumamoto Prefectural Institute of Public Health and	10/3 ~ 10/4		
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	250	HV
			10/5 ~ 10/6		
			9/5 ~ 9/12		
Miyazaki Pref.	35	Miyazaki Prefectural Institute for Public Healthand)15)11L	190	MV
wiiyazaki Piel.	33	Environment(Miyazaki City)		170	1 VI V
			0/20 0/20		
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City)	8/29 ~ 8/30	530	HV
			8/30 ~ 8/31		
		(8/31 ~ 9/1		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/28 ~ 8/29	tr(60)	HV
			8/29 ~ 8/30		
			8/30 ~ 8/31	1	
				<u> </u>	

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

⁽Note 3) HV: High Volume Air Sampler , MV: Medium Volume Air Sampler

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

[23-4] Chlorinated tridecanes/air(pg/m3)

Monitored year :2017

Detection Frequency (site) :35/37(Missing value :0) Detection Frequency (sample) :35/37(Missing value :0)

Detection limit :40 Quantification limit :120

	stats
Geometric mean	150
Median	160
Maximum	1,600
Minimum	nd

Local	N	W 2 12	Warm	season	A: 1
communities	No	Monitored sites	Sampling dates	Measured value	Air sampler
Hokkaido	1	Kushiro General Subprefectural Bureau (Kushiro City)	10/10 ~ 10/17	nd	MV
Sapporo City	2	Sapporo Art Park(Sapporo City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(40)	HV
Iwate Pref.	3	Sugo Air Quality Monitoring Station(Takizawa City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	tr(100)	HV
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment(Sendai City)	9/5 ~ 9/12	tr(110)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences(Murayama City)	8/23 ~ 8/30	tr(90)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center(Tsuchiura City)	9/6 ~ 9/13	tr(100)	MV
Chiba Pref.	7	Ichihara-Matsuzaki Air Quality Monitoring Station(Ichihara City)	9/13 ~ 9/20	tr(110)	MV
Tokyo Met.	8	Tokyo Metropolitan Research Institute for Environmental Protection(Koto Ward)	9/19 ~ 9/26	330	MV
	9	Chichijima Island	10/6 ~ 10/13	nd	MV
Kanagawa Pref.	10	Kanagawa Environmental Research Center(Hiratsuka City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	250	HV
Yokohama City	11	Yokohama Environmental Science Research Institute(Yokohama City)	9/19 ~ 9/22	400	MV
Niigata Pref.	12	Oyama Air Quality Monitoring Station(Niigata City)	8/22 ~ 8/23 8/23 ~ 8/24 8/24 ~ 8/25	220	HV
Toyama Pref.	13	Tonami Air Quality Monitoring Station(Tonami City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(80)	HV
Ishikawa Pref.	14	Ishikawa Prefectural Institute of Public Health and Environmental Science(Kanazawa City)	9/5 ~ 9/6 9/6 ~ 9/7 9/7 ~ 9/8	160	HV
Yamanashi Pref.	15	Yamanashi Prefectural Institute of Public Health and Environment(Kofu City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	390	HV
Nagano Pref.	16	Nagano Environmental Conservation Research Institute(Nagano City)	9/20 ~ 9/27	tr(90)	MV
Gifu Pref.	17	Gifu Prefectural Research Institute for Health and Environmental Sciences(Kakamigahara City)	9/12 ~ 9/13 9/13 ~ 9/14 9/14 ~ 9/15	180	HV
Nagoya City	18	Chikusa Ward Heiwa Park(Nagoya City)	8/29 ~ 9/5	540	MV
Mie Pref.	19	Mie Prefecture Health and Environment Research Institute(Yokkaichi City)	9/19 ~ 9/20 9/20 ~ 9/21 9/21 ~ 9/22	tr(100)	HV
Kyoto Pref.	20	Kyoto Prefecture Joyo Senior High School(Joyo City)	$10/3 \sim 10/4$ $10/4 \sim 10/5$ $10/5 \sim 10/6$	tr(40)	HV

Local	No	Monitored sites	Warm season		Air sampler
communities			Sampling dates	Measured value	All sampler
Osaka Pref.		0.1 1.4 P.C. 4 P.T. P.T. 2	9/19 ~ 9/20		<u> </u>
	21	Osaka Joint Prefectural Government Building, Building 2	9/20 ~ 9/21	290	HV
		Annex(Osaka City)	9/21 ~ 9/22		
			8/29 ~ 8/30		
Hyogo Prof	22	Hyogo Prefectural Environmental Research Center(Kobe City)	8/30 ~ 8/31	190	HV
Hyogo Pref.	22	Tryogo i refecturar Environmentar Research Center(Robe City)		190	11 V
			8/31 ~ 9/1		
Kobe City	23		9/12 ~ 9/13	1,600	****
		Kobe City Government Building(Kobe City)	9/13 ~ 9/14		HV
			9/14 ~ 9/15		
Nara Pref.		Tenri Air Quality Monitoring Station(Tenri City)	8/22 ~ 8/23	160	
	24		8/23 ~ 8/24		HV
			8/24 ~ 8/25		
		Oki National Acid Rain Observatory(Okinoshima Town)	9/26 ~ 9/27	130	
Shimane Pref.	25		9/27 ~ 9/28		HV
Similarie I Iei.			9/28 ~ 9/29		
			9/12 ~ 9/13		
Hiroshima City	26	Hiroshima City Kokutaiji Junior High School(Hiroshima City)	9/13 ~ 9/14	200	HV
Till Osiililia City	20	Throshinia City Kokutaiji Julioi Tilgii School(Tiiroshinia City)		200	п٧
			9/14 ~ 9/15		
		Yamaguchi Prefectural Institute of Public Health and	9/19 ~ 9/26		
Yamaguchi Pref.	27	Environment(Yamaguchi City)		320	MV
		Environment (Tuningueni City)			
			9/19 ~ 9/26		
	28	Hagi Museum(Hagi City)		180	MV
			9/26 ~ 9/27		
Tokushima Pref.	29	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center(Tokushima City)	9/27 ~ 9/28	250	HV
			9/28 ~ 9/29		
			9/27 ~ 10/4		
V D C	30	W D C + 1 D 11' C : D 1/T 1 + C'()	9/2/~10/4	140	M
Kagawa Pref.		Kagawa Prefectural Public Swimming Pool(Takamatsu City)		140	MV
			0/00 0/00		
	31	Ehime Prefectural Government Nanyo Regional Office(Uwajima City)	8/22 ~ 8/23	300	HV
Ehime Pref.			8/23 ~ 8/24		
			8/24 ~ 8/25		
			9/25 ~ 9/26		
Fukuoka Pref.	32	Omuta City Government Building(Omuta City)	9/26 ~ 9/27	220	HV
			9/27 ~ 9/28		
			9/19 ~ 9/26		
Saga Pref.	33	Saga Prefectural Environmental Research Center(Saga City)		tr(110)	MV
Saga 1 ICI.	23	Suga Freedura Environmental Research Center(Saga City)		4(110)	1.1 1
			10/3 ~ 10/4		
Variant D. C	2.4	Kumamoto Prefectural Institute of Public Health and		120	1177
Kumamoto Pref.	34	Environmental Science(Udo City)	10/4 ~ 10/5	120	HV
		. • .	10/5 ~ 10/6		
	35	Miyazaki Prefectural Institute for Public Healthand Environment(Miyazaki City)	9/5 ~ 9/12	200	MV
Miyazaki Pref.					
		Zii ii oiiiii oii (ivii yuzuki Oity)			
Kagoshima Pref.	36	Kagoshima Prefectural Institute for Environmental Research and Public Health(Kagoshima City)	8/29 ~ 8/30	400	HV
			8/30 ~ 8/31		
			8/31 ~ 9/1		
			8/28 ~ 8/29		
Okinawa Pref.	37	Cape Hedo(Kunigami Village)	8/29 ~ 8/30	tr(60)	HV
					11 V
			8/30 ~ 8/31		

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

⁽Note 2) Data treated as detected means detection limit value and more.

 $⁽Note\ 3)\ HV: High\ Volume\ Air\ Sampler\ ,\ MV:\ Medium\ Volume\ Air\ Sampler$

⁽Note 4) tr: detection limit value and more, less than Quantification limit value.

⁽Note 5) nd: Not detected