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

Monitored year: 2021

Detection Frequency (site) : 60/60 (Missing value : 0) Detection Frequency (sample) : 45/47 (Missing value : 0)

Detection limit: *6 Quantification limit: *7.8

	Aggregated value
Geometric mean	100
Median	81
Maximum	5,900
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	120
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(13)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	80
Akita Pref.	4	Lake Hachiro	77
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	20
Fukushima Pref.	6	Onahama Port	130
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	81
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	94
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	230
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	70
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	140
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	1,200
·	13	Mouth of Riv. Sumida (Minato Ward)	1,800
Yokohama City	14	Yokohama Port	400
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	840
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	50
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	55
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	530
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	5,900
Nagano Pref.	20	Lake Suwa (center)	39
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	17
Aichi Pref.	22	Nagoya Port	360
Mie Pref.	23	Yokkaichi Port	160
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	88
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	2,300
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	880
Osaka City	27	Osaka Port	1,200
Hyogo Pref.	28	Offshore of Himeji	60
Kobe City	29	Kobe Port (center)	680
Wakayama Pref.	30	Killokawa-ollashi Diluge, iviouul ol Kiv. Killokawa (wakayalii	170
Okayama Pref.	31	Offshore of Mizushima	31
Hiroshima Pref.	32	Kure Port	100
	33	Hiroshima Bay	38
Yamaguchi Pref.	34	Tokuyama Bay	27
	35	Offshore of Ube	27
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	26
Kagawa Pref.	38	Takamatsu Port	520
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	700
Saga Pref.	41	Imari Bay	24
Nagasaki Pref.	42	Omura Bay	tr(7)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	67
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(12)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	18
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(12)
Okinawa Pref.	47	Naha Port	630

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

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 congeners.

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

Monitored year: 2021

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

Detection limit : 0.4 Quantification limit : 1.0

	Aggregated value
Geometric mean	tr(0.4)
Median	nd
Maximum	18
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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 Median	tr(0.4)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	1.0
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(0.6)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	1.9
Ĭ	13	Mouth of Riv. Sumida (Minato Ward)	6.9
Yokohama City	14	Yokohama Port	nd
Kawasaki City		Front of Ougi Town, Keihin Canal, Port of Kawasaki	2.4
Niigata Pref.		Lower Riv. Shinano (Niigata City)	tr(0.5)
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	18
Ishikawa Pref.	-	Mouth of Riv. Sai (Kanazawa City)	tr(0.4)
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	5.3
Nagano Pref.	_	Lake Suwa (center)	nd
Shizuoka Pref.		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		• • • • • • • • • • • • • • • • • • • •	
	22	Nagoya Port	1.0
alue and more, less t	23	Yokkaichi Port	nd
Shiga Pref.		Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City		Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	2.3
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	tr(0.5)
Osaka City		Osaka Port	tr(0.4)
Hyogo Pref.		Offshore of Himeji	nd
Kobe City	29	Kobe Port (center) Killokawa-onashi diruge, wouth of Kiv. Killokawa (wakayani	nd
Wakayama Pref.	30	City	tr(0.5)
Okayama Pref.		Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	6.7
	35	Offshore of Ube	2.1
	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	tr(0.4)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
ragosiiiia i ici.	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
	70	Common cashi Bridge, Riv. Common (tellikikushikilio City)	IIG

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

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/surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.6 Quantification limit : 1.5

	Aggregated value
Geometric mean	11
Median	11
Maximum	530
Minimum	tr(1.0)

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	25
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	2.7
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	23
Akita Pref.	4	Lake Hachiro	13
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	3.3
Fukushima Pref.	6	Onahama Port	31
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	13
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	21
t value and more, less t	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	11
(Note 4) nd : Not detec	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	13
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	21
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	42
	13	Mouth of Riv. Sumida (Minato Ward)	87
Yokohama City	14	Yokohama Port	6.6
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	25
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	2.0
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	5.3
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	200
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	530
Nagano Pref.	20	Lake Suwa (center)	3.4
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	1.5
Aichi Pref.	22	Nagoya Port	37
Mie Pref.		Yokkaichi Port	28
Shiga Pref.		Lake Biwa (center, offshore of Karasaki)	3.5
Kyoto City		Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	200
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	40
Osaka City	27	Osaka Port	76
Hyogo Pref.	28	Offshore of Himeji	6.2
Kobe City	29	Kobe Port (center)	29
Wakayama Pref.	30	Killokawa-oliasili Driuge, wiouul ol Kiv. Killokawa (wakayani	21
Okayama Pref.	31	Offshore of Mizushima	4.0
Hiroshima Pref.	32	Kure Port	3.5
Tillosiiilia Tici.	33	Hiroshima Bay	3.1
Yamaguchi Pref.	34	Tokuyama Bay	10
i amaguem i iei.	35	Offshore of Ube	4.4
	36	Offshore of Hagi	2.0
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	3.1
Kagawa Pref.	38	Takamatsu Port	16
Kagawa Fici. Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(1.0)
Kitakyushu City	40	Dokai Bay	27
		Imari Bay	2.4
Saga Pref.	42	Omura Bay	2.4
Nagasaki Pref. Kumamoto Pref.	42	·	2.9
		Hiraki-bashi Bridge, Riv. Midori (Uto City)	2.5
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(1.4)
Olsins B. C	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	1.7
Okinawa Pref.		Naha Port (sita) is based on the number of sites, thus means (the number of detected sites/the number)	13

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

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/surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.4 Quantification limit : 1.0

	Aggregated value
Geometric mean	18
Median	16
Maximum	1,700
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	37
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	1.6
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	22
Akita Pref.	4	Lake Hachiro	14
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	1.1
Fukushima Pref.	6	Onahama Port	39
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	19
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	27
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	26
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	14
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	43
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	380
	13	Mouth of Riv. Sumida (Minato Ward)	620
Yokohama City	14	Yokohama Port	74
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	200
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	7.1
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	7.9
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	190
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1,700
Nagano Pref.		Lake Suwa (center)	4.0
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	3.2
Aichi Pref.	22	Nagoya Port	110
Mie Pref.	23	Yokkaichi Port	36
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	13
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	790
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	61
Osaka City	27	Osaka Port	220
Hyogo Pref.	28	Offshore of Himeji	16
Kobe City	29	Kobe Port (center)	140
Wakayama Pref.	30	Killokawa-oliashi Diluge, ivioutii of Kiv. Killokawa (wakayani	32
Okayama Pref.	31	Offshore of Mizushima	8.1
Hiroshima Pref.	32	Kure Port	13
	33	Hiroshima Bay	9.7
Yamaguchi Pref.	34	Tokuyama Bay	4.4
	35	Offshore of Ube	5.3
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	4.1
Kagawa Pref.	38	Takamatsu Port	190
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(0.5)
Kitakyushu City	40	Dokai Bay	120
Saga Pref.	41	Imari Bay	6.1
Nagasaki Pref.	42	Omura Bay	1.0
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	12
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(0.5)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	1.0
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	2.9
Okinawa Pref.	47	Naha Port	49

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

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/surface water (pg/L)

Monitored year: 2021

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

Detection limit: 0.3 Quantification limit: 0.9

	Aggregated value
Geometric mean	31
Median	25
Maximum	3,200
Minimum	1.1

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	34
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	4.0
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	20
Akita Pref.	4	Lake Hachiro	18
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	5.3
Fukushima Pref.	6	Onahama Port	37
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	27
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	29
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	61
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	19
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	47
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	490
•	13	Mouth of Riv. Sumida (Minato Ward)	720
Yokohama City	14	Yokohama Port	170
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	310
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	16
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	11
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	100
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	3,200
Nagano Pref.	20	Lake Suwa (center)	14
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	8.3
Aichi Pref.	22	Nagoya Port	120
Mie Pref.	23	Yokkaichi Port	51
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	25
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	670
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	120
Osaka City	27	Osaka Port	410
Hyogo Pref.	28	Offshore of Himeji	19
Kobe City	29	Kobe Port (center)	180
Wakayama Pref.	30	Killokawa-oliasili Driuge, woutii of Kiv. Killokawa (wakayani	49
Okayama Pref.	31	Offshore of Mizushima	10
Hiroshima Pref.	32	Kure Port	27
	33	Hiroshima Bay	14
Yamaguchi Pref.	34	Tokuyama Bay	4.1
	35	Offshore of Ube	7.2
	36	Offshore of Hagi	1.1
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	9.5
Kagawa Pref.	38	Takamatsu Port	210
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	1.3
Kitakyushu City	40	Dokai Bay	310
Saga Pref.		Imari Bay	8.2
Nagasaki Pref.	42	Omura Bay	2.3
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	22
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	3.7
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	3.1
011 - 0	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	3.9
Okinawa Pref.		Naha Port	89

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surve 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) /surface water (pg/L)

Monitored year: 2021

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

Detection limit: 0.3 Quantification limit: 0.9

	Aggregated value
Geometric mean	tr(0.4)
Median	tr(0.3)
Maximum	7.6
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(0.4)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(0.3)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(0.5)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.4)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	0.9
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(0.4)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	4.8
•	13	Mouth of Riv. Sumida (Minato Ward)	4.6
Yokohama City	14	Yokohama Port	0.9
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	2.3
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(0.4)
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(0.8)
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(0.7)
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	1.1
Mie Pref.	23	Yokkaichi Port	tr(0.5)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(0.5)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	7.5
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	2.4
Osaka City	27	Osaka Port	7.6
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	1.0
Wakayama Pref.	30	Killokawa-oliashi biluge, woudi of Kiv. Killokawa (wakayani	1.1
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	2.3
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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	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 surve

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) /surface water (pg/L)

Monitored year: 2021

Detection Frequency (site): 5/47 (Missing value: 0)
Detection Frequency (sample): 5/47 (Missing value: 0)

Detection limit: 0.3 Quantification limit: 0.9

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(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	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(0.3)
,	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(0.4)
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(0.7)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(0.4)
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	Killokawa-oliashi bituge, iviouth of Kiv. Killokawa (wakayani	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.		Kure Port	nd
		Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
6	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	Shinkawa-bashi Bridge, 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 surve

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/surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.6 Quantification limit : 1.5

	Aggregated value
Geometric mean	16
Median	16
Maximum	450
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	20
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	3.8
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	10
Akita Pref.	4	Lake Hachiro	19
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	7.1
Fukushima Pref.	6	Onahama Port	17
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	15
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	12
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	75
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	16
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	18
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	180
,		Mouth of Riv. Sumida (Minato Ward)	240
Yokohama City		Yokohama Port	89
Kawasaki City			180
Niigata Pref.		Lower Riv. Shinano (Niigata City)	16
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	8.6
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	24
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	450
Nagano Pref.	20	Lake Suwa (center)	11
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	3.3
Aichi Pref.	22	Nagoya Port	66
Mie Pref.	23	Yokkaichi Port	30
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	28
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	430
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	180
Osaka City	27	Osaka Port	280
Hyogo Pref.	28	Offshore of Himeji	8.1
Kobe City	29	Kobe Port (center)	120
Wakayama Pref.	30	Killokawa-oliashi Dhuge, wouth of Kiv. Killokawa (wakayani	37
Okayama Pref.	31	Offshore of Mizushima	4.5
Hiroshima Pref.	32	Kure Port	24
		Hiroshima Bay	6.3
Yamaguchi Pref.	34	Tokuyama Bay	nd
8	35	Offshore of Ube	3.2
	36		nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	5.8
Kagawa Pref.	38	Takamatsu Port	66
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	140
Saga Pref.	41	Imari Bay	2.8
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	14
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	3.0
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	7.9
<i>G</i>	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	1.7
Okinawa Pref.	47	Naha Port	98
		1	

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

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) /surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.6 Quantification limit : 1.5

	Aggregated value
Geometric mean	tr(1.1)
Median	tr(1.1)
Maximum	18
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(1.1)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(0.8)
Akita Pref.	4	Lake Hachiro	tr(1.3)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(0.6)
Fukushima Pref.	6	Onahama Port	tr(1.2)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(1.0)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(1.1)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	4.4
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	tr(1.1)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(1.1)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	6.1
•	13	Mouth of Riv. Sumida (Minato Ward)	8.6
Yokohama City	14	Yokohama Port	4.0
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(1.0)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(0.8)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	1.6
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	2.8
Nagano Pref.	20	Lake Suwa (center)	tr(0.8)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	3.8
Mie Pref.	23	Yokkaichi Port	tr(1.3)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	1.7
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	18
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	11
Osaka City	27	Osaka Port	10
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	4.3
Wakayama Pref.	30	Killokawa-oliasili Biluge, ivioutii of Kiv. Killokawa (wakayani	2.5
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	tr(0.8)
	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	4.0
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	8.7
Saga Pref.		Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(1.1)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(0.9)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	3.2

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

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.

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

Monitored year: 2021

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

Detection limit : 0.6 Quantification limit : 1.5

	Aggregated value
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	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	nd
l	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(1.0)
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	Killokawa-oliashi briuge, wouth of Kiv. Killokawa (wakayahi	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
İ	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
İ	35	Offshore of Ube	nd
I	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
		T	
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
Kagoshima Pref.	_	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City) Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd nd

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

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.

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

Monitored year: 2021

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

Detection limit : 0.6 Quantification limit : 1.5

	Aggregated value
Geometric mean	2.9
Median	2.6
Maximum	58
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	3.1
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(1.0)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	1.9
Akita Pref.	4	Lake Hachiro	3.8
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	1.6
Fukushima Pref.	6	Onahama Port	2.7
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	2.2
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	2.3
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	12
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	2.9
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	2.8
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	24
,	13	Mouth of Riv. Sumida (Minato Ward)	29
Yokohama City	14	Yokohama Port	13
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	32
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	2.6
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	1.6
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	3.4
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	3.9
Nagano Pref.		Lake Suwa (center)	tr(1.2)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(1.1)
Aichi Pref.	22	Nagoya Port	8.6
Mie Pref.	23	Yokkaichi Port	4.4
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	3.9
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	58
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	19
Osaka City	27	Osaka Port	30
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	15
Wakayama Pref.	30	Killokawa-oliasili Diluge, wouth of Kiv. Killokawa (wakayani	5.3
Okayama Pref.	31	Offshore of Mizushima	tr(0.7)
Hiroshima Pref.	32	Kure Port	2.4
	33	Hiroshima Bay	tr(0.8)
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	tr(0.9)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(1.2)
Kagawa Pref.	38	Takamatsu Port	10
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	20
Saga Pref.	41	Imari Bay	tr(0.7)
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	2.6
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(1.0)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	2.1
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(0.9)
Okinawa Pref.	47	Naha Port	9.4

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

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) /surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.6 Quantification limit : 1.5

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(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	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	nd
j I	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(1.2)
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	Killokawa-oliashi briuge, wouth of Kiv. Killokawa (wakayani	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
İ	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
İ	35	Offshore of Ube	nd
I	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
ivily azaki i ici.			
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
•	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City) Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd nd

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

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.

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

Monitored year: 2021

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

Detection limit : 0.6 Quantification limit : 1.5

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(0.8)
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
•	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(0.8)
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	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-onasin bridge, wodun of Kiv. Kinokawa (wakayam	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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
1	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 surve

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/surface water (pg/L)

Monitored year: 2021

Detection Frequency (site): 45/47 (Missing value: 0)
Detection Frequency (sample): 45/47 (Missing value: 0)

Detection limit : 0.5 Quantification limit : 1.4

	Aggregated value
Geometric mean	10
Median	8.4
Maximum	260
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	9.0
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(1.2)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	5.4
Akita Pref.	4	Lake Hachiro	12
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	3.4
Fukushima Pref.	6	Onahama Port	7.7
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	7.2
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	5.2
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	46
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	8.4
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	6.6
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	68
	13	Mouth of Riv. Sumida (Minato Ward)	72
Yokohama City	14	Yokohama Port	45
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	100
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	8.1
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	4.4
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	12
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	14
Nagano Pref.	20	Lake Suwa (center)	6.0
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(0.8)
Aichi Pref.	22	Nagoya Port	27
Mie Pref.	23	Yokkaichi Port	14
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	18
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	220
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	260
Osaka City	27	Osaka Port	150
Hyogo Pref.	28	Offshore of Himeji	9.3
Kobe City	29	Kobe Port (center)	130
Wakayama Pref.	30	Killokawa-oliashi Briuge, woudi of Kiv. Killokawa (wakayani	24
Okayama Pref.	31	Offshore of Mizushima	4.0
Hiroshima Pref.	32	Kure Port	25
	33	Hiroshima Bay	5.1
Yamaguchi Pref.	34	Tokuyama Bay	1.9
_	35	Offshore of Ube	4.4
	36	Offshore of Hagi	tr(0.6)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	3.9
Kagawa Pref.	38	Takamatsu Port	32
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	57
Saga Pref.		Imari Bay	3.1
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	8.4
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	2.1
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	4.7
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	1.5
Okinawa Pref.	47	Naha Port	190

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

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) /surface water (pg/L)

Monitored year: 2021

Detection Frequency (site): 14/47 (Missing value: 0)
Detection Frequency (sample): 14/47 (Missing value: 0)

Detection limit : 0.5 Quantification limit : 1.4

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	5.9
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	1.6
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	1.5
•	13	Mouth of Riv. Sumida (Minato Ward)	1.5
Yokohama City	14	Yokohama Port	tr(0.8)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	2.2
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(0.6)
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(0.6)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	5.9
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	5.5
Osaka City	27	Osaka Port	2.0
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	1.5
Wakayama Pref.	30	Killokawa-oliasili Diluge, ivioutii of Kiv. Killokawa (wakayalii	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(0.8)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(1.0)
Saga Pref.		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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
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 surve

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) /surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.5 Quantification limit : 1.4

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	1.4
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(0.5)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	1.4
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(1.2)
Osaka City	27	Osaka Port	tr(1.1)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Killokawa-oliashi briuge, woudi of Kiv. Killokawa (wakayani	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		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	Shinkawa-bashi Bridge, 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 surve

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) /surface water (pg/L)

Monitored year: 2021

Detection Frequency (site): 10/47 (Missing value: 0) Detection Frequency (sample): 10/47 (Missing value: 0)

Detection limit : 0.5 Quantification limit : 1.4

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	2.8
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(0.7)
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(0.7)
j	13	Mouth of Riv. Sumida (Minato Ward)	tr(0.7)
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(1.1)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	2.5
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	2.8
Osaka City	27	Osaka Port	1.5
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	tr(1.0)
Wakayama Pref.	30	Killokawa-oliashi briuge, ivioutii of Kiv. Killokawa (wakayani	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.		Kure Port	nd
			nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
6	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	tr(0.6)
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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
- 200 000000000000000000000000000000000	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	1.4

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

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) /surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.5 Quantification limit : 1.4

	Aggregated value
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	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.		Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	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-onasini briuge, ivioutii or Kiv. Kinokawa (wakayani	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	Shinkawa-bashi Bridge, 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 surve

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] Heptachlorobiphenyls/surface water (pg/L)

Monitored year: 2021

Detection Frequency (site): 27/47 (Missing value: 0)
Detection Frequency (sample): 27/47 (Missing value: 0)

Detection limit : 0.8 Quantification limit : 2.1

	Aggregated value
Geometric mean	tr(1.8)
Median	tr(0.9)
Maximum	180
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(0.9)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(1.1)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	7.0
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(0.9)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	14
•	13	Mouth of Riv. Sumida (Minato Ward)	13
Yokohama City	14	Yokohama Port	13
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	24
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(0.8)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	4.3
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	tr(0.9)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	3.7
Mie Pref.	23	Yokkaichi Port	tr(1.1)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(0.9)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	34
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	180
Osaka City	27	Osaka Port	30
Hyogo Pref.	28	Offshore of Himeji	tr(1.0)
Kobe City	29	Kobe Port (center)	65
Wakayama Pref.	30	Kinokawa-onashi dhuge, iviouti of Kiv. Kinokawa (wakayani	5.9
Okayama Pref.	31	Offshore of Mizushima	tr(0.8)
Hiroshima Pref.			8.6
THIOSIMIA TIOI.			nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
r amagacin r rer.	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	5.5
Kagawa Frei. Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	22
Saga Pref.	41	Imari Bay	tr(0.9)
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(0.9)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
ragosinina i ici.	46	Gotanda-bashi Bridge, Riv. Anion (Kirishinia City) Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	150
Okiliawa Fiel.	4/	Inana ron	150

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

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.

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

Monitored year: 2021

Detection Frequency (site): 15/47 (Missing value: 0)
Detection Frequency (sample): 15/47 (Missing value: 0)

Detection limit : 0.8 Quantification limit : 2.1

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	19
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(1.8)
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(2.0)
•	13	Mouth of Riv. Sumida (Minato Ward)	tr(1.9)
Yokohama City	14	Yokohama Port	tr(1.6)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	3.1
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(0.8)
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	6.2
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	19
Osaka City	27	Osaka Port	3.9
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	6.6
Wakayama Pref.	30	Killokawa-oliashi biluge, wouth of Kiv. Killokawa (wakayani	tr(1.3)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	tr(0.9)
	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(1.1)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	2.2
Saga Pref.		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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	16

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

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) /surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.8 Quantification limit : 2.1

	Aggregated value
Geometric mean	tr(1.2)
Median	tr(0.9)
Maximum	52
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(0.9)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(1.1)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	2.8
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(0.9)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	4.4
,	13	Mouth of Riv. Sumida (Minato Ward)	4.1
Yokohama City	14	Yokohama Port	4.6
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	8.3
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(0.8)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(1.3)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	tr(0.9)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(1.8)
Mie Pref.	23	Yokkaichi Port	tr(1.1)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(0.9)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	10
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	52
Osaka City	27	Osaka Port	8.5
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	17
Wakayama Pref.	30	Kinokawa-onasin Briuge, wouth of Kiv. Kinokawa (wakayam	2.2
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.		Kure Port	2.4
	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	2.5
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	7.1
Saga Pref.	41	Imari Bay	tr(0.9)
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(0.9)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
124500111114 1 101.	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	47

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

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.

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

Monitored year: 2021

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

Detection limit : 0.8 Quantification limit : 2.1

	Aggregated value
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	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
,		Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City		Yokohama Port	nd
Kawasaki City		Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.		Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	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-onasin bridge, ivioutii of Kiv. Kinokawa (wakayani	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
111100111111111111111111111111111111111	_	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
g	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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
8	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd
		I .	

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

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.

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

Monitored year: 2021

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

Detection limit : 0.5 Quantification limit : 1.3

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	36
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(1.1)
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	2.0
•	13	Mouth of Riv. Sumida (Minato Ward)	tr(0.6)
Yokohama City	14	Yokohama Port	tr(0.5)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	2.6
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	2.9
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	36
Osaka City	27	Osaka Port	3.7
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	11
Wakayama Pref.	30	Kinokawa-onasin briuge, iviouui oi Kiv. Kinokawa (wakayani	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
C	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	3.2
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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
-	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	33

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

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.

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

Monitored year: 2021

Detection Frequency (site): 3/47 (Missing value: 0) Detection Frequency (sample): 3/47 (Missing value: 0)

Detection limit : 0.7 Quantification limit : 1.8

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	3.1
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(0.7)
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
1011/01/120		Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City		Yokohama Port	nd
Kawasaki City		Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.		Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	2.9
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-onasiii Dhuge, woutii of Kiv. Kinokawa (wakayam	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
Tinosinina Tioi.	_	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
r umagaem r rei.	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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
1250011111111 1 101.	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	3.1
OKIIIGWA 1 ICI.		1 1944 2 044	J.1

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

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.

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

Monitored year: 2021

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

Detection limit: 1 Quantification limit: 3

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	18
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(2)
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
,	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(2)
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Killokawa-oliashi briuge, wouth of Kiv. Killokawa (wakayahi	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	18
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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	tr(1)

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

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.

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

Monitored year: 2021

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

Detection limit : 0.4 Quantification limit : 1.0

	Aggregated value
Geometric mean	6.8
Median	5.5
Maximum	180
Minimum	1.6

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	14
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	5.0
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	8.4
Akita Pref.	4	Lake Hachiro	4.7
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	6.1
Fukushima Pref.	6	Onahama Port	61
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	25
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	6.2
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	180
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	29
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	5.4
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	16
•	13	Mouth of Riv. Sumida (Minato Ward)	7.2
Yokohama City	14	Yokohama Port	4.1
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	9.3
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	13
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	7.4
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	71
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	5.5
Nagano Pref.	20	Lake Suwa (center)	11
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	6.2
Aichi Pref.	22	Nagoya Port	9.4
Mie Pref.	23	Yokkaichi Port	6.2
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	4.5
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	11
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	13
Osaka City	27	Osaka Port	7.9
Hyogo Pref.	28	Offshore of Himeji	2.0
Kobe City	29	Kobe Port (center)	2.9
Wakayama Pref.	30	Killokawa-oliashi bituge, wouth of Kiv. Killokawa (wakayani	5.2
Okayama Pref.	31	Offshore of Mizushima	2.3
Hiroshima Pref.	32	Kure Port	2.0
	33	Hiroshima Bay	1.6
Yamaguchi Pref.	34	Tokuyama Bay	2.8
	35	Offshore of Ube	2.8
	36	Offshore of Hagi	2.3
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	3.5
Kagawa Pref.	38	Takamatsu Port	3.1
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	2.8
Kitakyushu City	40	Dokai Bay	100
Saga Pref.		Imari Bay	3.7
Nagasaki Pref.	42	Omura Bay	1.7
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	5.8
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	3.7
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	4.4
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	4.0
Okinawa Pref.		Naha Port (sita) is based on the number of sites, thus means (the number of detected sites/the number)	2.3

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

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.

[6-1] p,p'-DDT/surface water (pg/L)

Monitored year: 2021

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

Detection limit: 0.3 Quantification limit: 0.8

	Aggregated value
Geometric mean	2.6
Median	2.7
Maximum	190
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	190
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	5.2
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	2.8
Akita Pref.	4	Lake Hachiro	1.5
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	9.8
Fukushima Pref.	6	Onahama Port	4.2
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	1.7
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	2.7
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	36
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	3.9
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	1.1
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	3.7
	13	Mouth of Riv. Sumida (Minato Ward)	4.2
Yokohama City	14	Yokohama Port	3.1
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	2.7
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	62
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	5.7
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	5.6
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1.8
Nagano Pref.		Lake Suwa (center)	3.1
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	2.6
Aichi Pref.	22	Nagoya Port	1.4
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	21
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	30
Osaka City	27	Osaka Port	4.3
Hyogo Pref.	28	Offshore of Himeji	tr(0.4)
Kobe City	29	Kobe Port (center)	2.1
Wakayama Pref.	30	Circle	10
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	1.4
	33	Hiroshima Bay	1.5
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	tr(0.6)
	36	Offshore of Hagi	tr(0.5)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(0.6)
Kagawa Pref.	38	Takamatsu Port	1.9
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	1.3
Kitakyushu City	40	Dokai Bay	4.3
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	tr(0.5)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	3.6
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	4.5
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	2.5
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	3.2
Okinawa Pref.	47	Naha Port	56

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

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.

[6-2] p,p'-DDE/surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.1 Quantification limit : 0.3

	Aggregated value
Geometric mean	9.2
Median	8.0
Maximum	170
Minimum	0.9

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	170
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	6.4
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	4.5
Akita Pref.	4	Lake Hachiro	8.0
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	12
Fukushima Pref.	6	Onahama Port	6.1
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	14
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	5.0
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	65
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	10
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	7.1
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	57
•	13	Mouth of Riv. Sumida (Minato Ward)	130
Yokohama City	14	Yokohama Port	20
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	27
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	55
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	5.9
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	14
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	3.8
Nagano Pref.	20	Lake Suwa (center)	30
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	7.7
Aichi Pref.	22	Nagoya Port	10
Mie Pref.	23	Yokkaichi Port	3.4
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	3.4
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	70
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	56
Osaka City	27	Osaka Port	14
Hyogo Pref.	28	Offshore of Himeji	2.3
Kobe City	29	Kobe Port (center)	11
Wakayama Pref.	30	Killokawa-oliashi Driuge, woduli of Kiv. Killokawa (wakayahi	34
Okayama Pref.	31	Offshore of Mizushima	2.0
Hiroshima Pref.		Kure Port	5.4
	33	Hiroshima Bay	2.7
Yamaguchi Pref.	34	Tokuyama Bay	1.1
S	35	Offshore of Ube	2.1
	36	Offshore of Hagi	0.9
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	3.2
Kagawa Pref.	38	Takamatsu Port	16
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	1.5
Kitakyushu City	40	Dokai Bay	8.9
Saga Pref.	41	Imari Bay	3.5
Nagasaki Pref.	42	Omura Bay	0.9
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	15
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	11
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	3.1
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	7.6
Okinawa Pref.	47	Naha Port	57

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

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.

[6-3] p,p'-DDD/surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.3 Quantification limit : 0.8

	Aggregated value
Geometric mean	6.3
Median	6.1
Maximum	87
Minimum	0.9

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	87
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	2.4
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	3.4
Akita Pref.	4	Lake Hachiro	3.6
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	8.1
Fukushima Pref.	6	Onahama Port	17
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	11
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	3.3
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	36
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	6.4
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	4.0
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	16
•	13	Mouth of Riv. Sumida (Minato Ward)	20
Yokohama City	14	Yokohama Port	26
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	20
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	47
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	2.5
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	6.2
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1.7
Nagano Pref.	20	Lake Suwa (center)	15
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	6.5
Aichi Pref.	22	Nagoya Port	6.0
Mie Pref.	23	Yokkaichi Port	2.8
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	0.9
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	39
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	27
Osaka City	27	Osaka Port	16
Hyogo Pref.	28	Offshore of Himeji	1.6
Kobe City	29	Kobe Port (center)	11
Wakayama Pref.	30	Killokawa-oliashi biluge, ivioutii of Kiv. Killokawa (wakayani	18
Okayama Pref.	31	Offshore of Mizushima	2.0
Hiroshima Pref.	32	Kure Port	9.1
	33	Hiroshima Bay	3.5
Yamaguchi Pref.	34	Tokuyama Bay	0.9
	35	Offshore of Ube	2.2
	36	Offshore of Hagi	1.4
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	2.9
Kagawa Pref.	38	Takamatsu Port	8.8
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	1.5
Kitakyushu City	40	Dokai Bay	18
Saga Pref.		Imari Bay	6.1
Nagasaki Pref.	42	Omura Bay	1.4
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	5.2
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	3.2
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	1.1
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	2.5
Okinawa Pref.	47	Naha Port (sita) is based on the number of sites, thus means (the number of detected sites/the number)	33

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

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.

[6-4] o,p'-DDT/surface water (pg/L)

Monitored year: 2021

Detection Frequency (site): 30/47 (Missing value: 0)
Detection Frequency (sample): 30/47 (Missing value: 0)

Detection limit: 0.3 Quantification limit: 0.9

	Aggregated value
Geometric mean	tr(0.6)
Median	tr(0.5)
Maximum	33
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	24
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	1.3
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(0.8)
Akita Pref.	4	Lake Hachiro	tr(0.7)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	1.4
Fukushima Pref.	6	Onahama Port	1.9
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(0.4)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.7)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	6.6
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(0.7)
	13	Mouth of Riv. Sumida (Minato Ward)	1.2
Yokohama City	14	Yokohama Port	1.0
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(0.8)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	33
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(0.8)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	1.1
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(0.5)
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	4.1
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	7.0
Osaka City	27	Osaka Port	1.1
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	tr(0.8)
Wakayama Pref.	30	Killokawa-oliashi briuge, woudi of Kiv. Killokawa (wakayani	1.2
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
	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(0.5)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(0.4)
Kitakyushu City	40	Dokai Bay	1.1
Saga Pref.		Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(0.7)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(0.4)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(0.5)
Okinawa Pref.	47	Naha Port	0.9

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

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.

[6-5] o,p'-DDE/surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.2 Quantification limit : 0.6

	Aggregated value
Geometric mean	tr(0.5)
Median	tr(0.4)
Maximum	92
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	2.9
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(0.3)
Akita Pref.	4	Lake Hachiro	tr(0.4)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(0.4)
Fukushima Pref.	6	Onahama Port	0.9
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(0.4)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.3)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	1.9
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	tr(0.4)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	0.7
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	22
·	13	Mouth of Riv. Sumida (Minato Ward)	92
Yokohama City	14	Yokohama Port	4.5
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	6.3
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	1.2
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(0.4)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	0.9
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(0.2)
Aichi Pref.	22	Nagova Port	0.7
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	3.2
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	4.1
Osaka City	27	Osaka Port	1.3
Hyogo Pref.	28	Offshore of Himeji	tr(0.2)
Kobe City	29	Kobe Port (center)	0.7
Wakayama Pref.	30	Killokawa-oliashi bituge, ivioutii of Kiv. Killokawa (wakayani	15
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.		Kure Port	tr(0.3)
	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	0.9
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	0.7
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	0.8
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(0.5)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
-20500000000000000000000000000000000000	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(0.3)
Okinawa Pref.	47	Naha Port	2.8

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

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.

[6-6] o,p'-DDD/surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.2 Quantification limit : 0.5

	Aggregated value
Geometric mean	3.5
Median	3.7
Maximum	54
Minimum	tr(0.3)

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	22
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	0.9
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	1.2
Akita Pref.	4	Lake Hachiro	1.3
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	4.0
Fukushima Pref.	6	Onahama Port	8.5
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	4.7
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	5.6
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	12
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	5.3
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	14
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	6.8
,	13	Mouth of Riv. Sumida (Minato Ward)	20
Yokohama City	14	Yokohama Port	27
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	54
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	12
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	1.1
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	34
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	0.9
Nagano Pref.	20	Lake Suwa (center)	3.7
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	1.9
Aichi Pref.	22	Nagoya Port	2.5
Mie Pref.	23	Yokkaichi Port	1.2
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	0.5
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	22
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	35
Osaka City	27	Osaka Port	37
Hyogo Pref.	28	Offshore of Himeji	0.8
Kobe City	29	Kobe Port (center)	8.1
Wakayama Pref.	30	Killokawa-oliashi difuge, wouth of Kiv. Killokawa (wakayani	17
Okayama Pref.	31	Offshore of Mizushima	0.8
Hiroshima Pref.		Kure Port	3.2
	33	Hiroshima Bay	1.5
Yamaguchi Pref.	34	Tokuyama Bay	0.5
6	35	Offshore of Ube	0.9
	36	Offshore of Hagi	0.5
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	1.2
Kagawa Pref.	38	Takamatsu Port	4.0
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(0.4)
Kitakyushu City	40	Dokai Bay	16
Saga Pref.	41	Imari Bay	1.9
Nagasaki Pref.	42	Omura Bay	0.5
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	6.8
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	0.9
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(0.3)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	0.8
Okinawa Pref.	47	Naha Port	8.0

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

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) /surface water (pg/L)

Monitored year: 2021

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

Detection limit : 30 Quantification limit : 80

	Aggregated value
Geometric mean	330
Median	300
Maximum	3,700
Minimum	tr(30)

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	100
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(60)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	160
Akita Pref.	4	Lake Hachiro	320
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	300
Fukushima Pref.	6	Onahama Port	tr(70)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	1,100
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	1,000
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	730
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	1,600
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	880
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	710
1011/0111011		Mouth of Riv. Sumida (Minato Ward)	2,400
Yokohama City		Yokohama Port	860
Kawasaki City		Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,000
Niigata Pref.		Lower Riv. Shinano (Niigata City)	180
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	170
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	2,600
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	220
Nagano Pref.	20	Lake Suwa (center)	260
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	170
Aichi Pref.	22	Nagoya Port	710
Mie Pref.	23	Yokkaichi Port	280
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	480
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	3,000
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	3,700
Osaka City	27	Osaka Port	1,700
Hyogo Pref.	28	Offshore of Himeji	200
Kobe City	29	Kobe Port (center)	780
Wakayama Pref.	30	Killokawa-oliashi biluge, wouth of Kiv. Killokawa (wakayahi	380
Okayama Pref.	31	Offshore of Mizushima	130
Hiroshima Pref.	32	Kure Port	170
111100111111111111111111111111111111111	_	Hiroshima Bay	680
Yamaguchi Pref.	34	Tokuyama Bay	110
g	35	Offshore of Ube	tr(70)
	36	Offshore of Hagi	tr(30)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	170
Kagawa Pref.	38	Takamatsu Port	180
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(70)
Kitakyushu City	40	Dokai Bay	330
Saga Pref.	41	Imari Bay	tr(30)
Nagasaki Pref.	42	Omura Bay	170
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	440
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	190
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	120
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	400
Okinawa Pref.	47	Naha Port	630
		I .	050

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

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) /surface water (pg/L)

Monitored year: 2021

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

Detection limit : 40 Quantification limit : 90

	Aggregated value
Geometric mean	1,100
Median	870
Maximum	23,000
Minimum	230

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	470
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	230
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	490
Akita Pref.	4	Lake Hachiro	2,600
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	540
Fukushima Pref.	6	Onahama Port	760
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	3,900
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	1,400
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	2,600
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	2,800
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	2,300
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	1,400
•	13	Mouth of Riv. Sumida (Minato Ward)	2,000
Yokohama City	14	Yokohama Port	1,100
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,300
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	760
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	750
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	23,000
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1,200
Nagano Pref.	20	Lake Suwa (center)	620
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	410
Aichi Pref.	22	Nagoya Port	1,600
Mie Pref.	23	Yokkaichi Port	2,100
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	3,100
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	7,600
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	13,000
Osaka City	27	Osaka Port	8,300
Hyogo Pref.	28	Offshore of Himeji	890
Kobe City	29	Kobe Port (center)	2,500
Wakayama Pref.	30	Killokawa-oliashi Dhuge, wouli of Kiv. Killokawa (wakayani	2,200
Okayama Pref.	31	Offshore of Mizushima	600
Hiroshima Pref.	32	Kure Port	350
	33	Hiroshima Bay	550
Yamaguchi Pref.	34	Tokuyama Bay	400
	35	Offshore of Ube	320
	36	Offshore of Hagi	520
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	610
Kagawa Pref.	38	Takamatsu Port	840
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	240
Kitakyushu City	40	Dokai Bay	1,000
Saga Pref.	41	Imari Bay	750
Nagasaki Pref.	42	Omura Bay	870
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	1,200
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	780
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	280
-	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	630
Okinawa Pref.	47	Naha Port	250

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

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.

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

Monitored year: 2021

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

Detection limit : 0.4 Quantification limit : 1.1

	Aggregated value
Geometric mean	4.8
Median	3.5
Maximum	140
Minimum	1.2

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	7.2
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	2.8
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	2.0
Akita Pref.	4	Lake Hachiro	2.9
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	3.5
Fukushima Pref.	6	Onahama Port	20
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	29
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	4.7
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	140
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	27
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	4.4
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	14
	13	Mouth of Riv. Sumida (Minato Ward)	9.7
Yokohama City	14	Yokohama Port	3.8
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	6.9
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	10
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	7.0
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	18
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	3.1
Nagano Pref.	20	Lake Suwa (center)	11
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	3.1
Aichi Pref.	22	Nagoya Port	20
Mie Pref.	23	Yokkaichi Port	6.7
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	2.7
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	39
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	12
Osaka City	27	Osaka Port	8.8
Hyogo Pref.	28	Offshore of Himeji	1.8
Kobe City	29	Kobe Port (center)	2.4
Wakayama Pref.	30	Killokawa-oliashi Driuge, iviouui of Kiv. Killokawa (wakayahi	4.0
Okayama Pref.	31	Offshore of Mizushima	1.9
Hiroshima Pref.	32	Kure Port	1.6
	33	Hiroshima Bay	1.6
Yamaguchi Pref.	34	Tokuyama Bay	1.9
	35	Offshore of Ube	1.6
	36	Offshore of Hagi	1.2
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	2.6
Kagawa Pref.	38	Takamatsu Port	2.3
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	1.4
Kitakyushu City	40	Dokai Bay	27
Saga Pref.	41	Imari Bay	2.9
Nagasaki Pref.	42	Omura Bay	1.3
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	3.7
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	1.9
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	1.5
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	1.5
Okinawa Pref.	47	Naha Port	2.1

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

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.

[18] Endosulfans/surface water (pg/L)

Monitored year: 2021

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

Detection limit: *50 Quantification limit: *120

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	830
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(80)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(110)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(90)
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	830
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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
•	13	Mouth of Riv. Sumida (Minato Ward)	tr(100)
Yokohama City	14	Yokohama Port	tr(90)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(50)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	tr(50)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(90)
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Killokawa-oliashi Driuge, woduli of Kiv. Killokawa (wakayani	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
C	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(90)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(80)
Saga Pref.	41	Imari Bay	tr(100)
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	Shinkawa-bashi Bridge, 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 surve

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

 $(Note\ 5)\ *:\ Indicates\ the\ sum\ value\ of\ the\ Quantification\ [Detection]\ limits\ of\ each\ target\ chemicals.$

[18-1] α -Endosulfan/surface water (pg/L)

Monitored year: 2021

Detection Frequency (site): 17/47 (Missing value: 0)
Detection Frequency (sample): 17/47 (Missing value: 0)

Detection limit : 40 Quantification limit : 90

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	580
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(60)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	90
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(70)
Akita Pref.	4	Lake Hachiro	tr(40)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	580
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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
•	13	Mouth of Riv. Sumida (Minato Ward)	tr(80)
Yokohama City	14	Yokohama Port	tr(80)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(50)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(40)
Nagano Pref.	20	Lake Suwa (center)	tr(50)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(40)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(40)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(50)
Osaka City	27	Osaka Port	tr(40)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Killokawa-oliashi bituge, iviouth of Kiv. Killokawa (wakayam	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
1111051111111	_	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
1 amagaem 1 1en	_	Offshore of Ube	nd
-			nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.		Takamatsu Port	tr(80)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(70)
Saga Pref.		Imari Bay	90
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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
ragosiiina i ici.	46	Gotanda-bashi Bridge, Riv. Amori (Ritishinia City)	nd
			IIU

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

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.

[18-2] β -Endosulfan/surface water (pg/L)

Monitored year: 2021

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

Detection limit: 10 Quantification limit: 30

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	250
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(20)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(20)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(20)
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	250
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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(20)
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
•	13	Mouth of Riv. Sumida (Minato Ward)	tr(20)
Yokohama City	14	Yokohama Port	tr(10)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	40
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Killokawa-oliashi biluge, wouth of Kiv. Killokawa (wakayahi	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(10)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(10)
Saga Pref.	41	Imari Bay	tr(10)
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	Shinkawa-bashi Bridge, 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 surve

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.

[20] Total Polychlorinated naphthalenes/surface water (pg/L)

Monitored year: 2021

Detection Frequency (site): 29/47 (Missing value: 0)
Detection Frequency (sample): 29/47 (Missing value: 0)

Detection limit : *6 Quantification limit : *15

	Aggregated value
Geometric mean	tr(9)
Median	tr(8)
Maximum	170
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(14)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(7)
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	17
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(8)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(10)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	160
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	tr(12)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	17
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	33
•	13	Mouth of Riv. Sumida (Minato Ward)	80
Yokohama City	14	Yokohama Port	79
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	67
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(10)
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	15
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.		Lake Suwa (center)	tr(8)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(9)
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	170
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	87
Osaka City	27	Osaka Port	47
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	tr(10)
Wakayama Pref.	30	Killokawa-oliashi Biluge, wouli of Kiv. Killokawa (wakayani	tr(12)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	tr(7)
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	tr(10)
_	35	Offshore of Ube	tr(6)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	tr(7)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	42
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	tr(14)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(9)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	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 surve

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 congeners.

[20-1] Monochlorinated naphthalenes/surface water (pg/L)

Monitored year: 2021

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

Detection limit: 1 Quantification limit: 3

	Aggregated value
Geometric mean	tr(2)
Median	tr(2)
Maximum	13
Minimum	nd

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

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.

[20-2] Dichlorinated naphthalenes/surface water (pg/L)

Monitored year: 2021

Detection Frequency (site) : 31/47 (Missing value : 0)
Detection Frequency (sample) : 31/47 (Missing value : 0)

Detection limit : 0.9 Quantification limit : 2.3

	Aggregated value
Geometric mean	tr(1.3)
Median	tr(1.3)
Maximum	25
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(1.6)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(1.1)
Akita Pref.	4	Lake Hachiro	tr(1.0)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(1.4)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(1.3)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(1.1)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	5.8
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	5.3
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	7.0
	13	Mouth of Riv. Sumida (Minato Ward)	25
Yokohama City	14	Yokohama Port	7.7
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	8.5
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	2.7
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(1.1)
Nagano Pref.	20	Lake Suwa (center)	tr(1.4)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	2.8
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	14
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(1.8)
Osaka City	27	Osaka Port	tr(1.3)
Hyogo Pref.	28	Offshore of Himeji	tr(0.9)
Kobe City	29	Kobe Port (center)	tr(1.5)
Wakayama Pref.	30	Killokawa-oliasili Diluge, iviouul ol Kiv. Killokawa (wakayalii	tr(2.1)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	tr(1.6)
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	tr(1.7)
	35	Offshore of Ube	tr(1.0)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(1.4)
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	2.3
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	tr(2.0)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(2.2)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(1.7)
Okinawa Pref.	47	Naha Port	tr(2.0)

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

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 naphthalenes/surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.7 Quantification limit : 1.7

	Aggregated value
Geometric mean	tr(1.5)
Median	tr(1.5)
Maximum	47
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	3.2
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	2.2
Akita Pref.	4	Lake Hachiro	tr(1.6)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(0.8)
Fukushima Pref.	6	Onahama Port	5.0
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(1.1)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(1.5)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	19
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	1.8
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	2.0
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	7.7
•	13	Mouth of Riv. Sumida (Minato Ward)	22
Yokohama City	14	Yokohama Port	41
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	26
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	1.8
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	1.9
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	3.0
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(1.1)
Nagano Pref.		Lake Suwa (center)	tr(1.4)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(0.9)
Aichi Pref.	22	Nagoya Port	tr(1.5)
Mie Pref.	23	Yokkaichi Port	tr(0.7)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	47
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	11
Osaka City	27	Osaka Port	12
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	tr(1.6)
Wakayama Pref.	30	Killokawa-oliasili Briuge, ivioutii of Kiv. Killokawa (wakayalii	1.8
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	tr(1.4)
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
C	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(1.3)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	2.8
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(1.5)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	2.5

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

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.

[20-4] Tetrachlorinated naphthalenes/surface water (pg/L)

Monitored year: 2021

Detection Frequency (site): 33/47 (Missing value: 0)
Detection Frequency (sample): 33/47 (Missing value: 0)

Detection limit : 0.5 Quantification limit : 1.2

	Aggregated value
Geometric mean	2.0
Median	2.3
Maximum	77
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	6.9
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(0.6)
Akita Pref.	4	Lake Hachiro	1.2
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(0.6)
Fukushima Pref.	6	Onahama Port	5.0
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	3.2
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	5.0
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	47
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	8.5
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	5.4
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	11
•	13	Mouth of Riv. Sumida (Minato Ward)	17
Yokohama City	14	Yokohama Port	26
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	24
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	7.2
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	1.2
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	6.5
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(1.1)
Nagano Pref.	20	Lake Suwa (center)	2.3
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	1.5
Aichi Pref.	22	Nagoya Port	1.8
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	77
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	43
Osaka City	27	Osaka Port	23
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	4.2
Wakayama Pref.	30	Killokawa-oliashi briuge, wouth of Kiv. Killokawa (wakayani	5.3
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.			tr(1.0)
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
6	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	3.0
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)	3.4
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	1.7
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	2.3
Okinawa Pref.	47	Naha Port	4.1

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

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.

[20-5] Pentachlorinated naphthalenes/surface water (pg/L)

Monitored year: 2021

Detection Frequency (site): 21/47 (Missing value: 0)
Detection Frequency (sample): 21/47 (Missing value: 0)

Detection limit : 0.6 Quantification limit : 1.5

	Aggregated value
Geometric mean	tr(0.8)
Median	nd
Maximum	38
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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)	tr(0.7)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(1.3)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	38
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	1.7
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	1.9
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	3.9
ĺ	13	Mouth of Riv. Sumida (Minato Ward)	3.0
Yokohama City	14	Yokohama Port	2.5
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	4.3
Niigata Pref.		Lower Riv. Shinano (Niigata City)	tr(0.9)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	1.6
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.		Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	26
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	26
Osaka City	27	Osaka Port	9.0
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Killokawa-oliashi bituge, wiouul ol Kiv. Killokawa (wakayani	tr(1.2)
Okayama Pref.		Offshore of Mizushima	nd
Hiroshima Pref.		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	tr(1.0)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	9.8
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(0.9)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(0.8)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
-14500111114 1 101.	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(1.1)
			41(1.1)

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

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 naphthalenes/surface water (pg/L)

Monitored year: 2021

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

Detection limit : 0.9 Quantification limit : 2.3

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	32
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	32
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
Í	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.		Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(2.1)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	2.3
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Killokawa-oliashi bituge, ivioutii of Kiv. Killokawa (wakayani	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.		Kure Port	nd
		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	7.0
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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
			114

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

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.

[20-7] Heptachlorinated naphthalenes/surface water (pg/L)

Monitored year: 2021

Detection Frequency (site): 5/47 (Missing value: 0)
Detection Frequency (sample): 5/47 (Missing value: 0)

Detection limit : 0.4 Quantification limit : 1.1

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	14
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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)	tr(0.6)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	14
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
•	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	tr(0.5)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(0.5)
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Killokawa-oliashi Driuge, woudi of Kiv. Killokawa (wakayam	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	3.4
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	Shinkawa-bashi Bridge, 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 surve

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.

[20-8] Octachlorinated naphthalene/surface water (pg/L)

Monitored year: 2021

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

Detection limit: 0.8 Quantification limit: 2.0

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	2.0
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	2.0
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
,		Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City		Yokohama Port	nd
Kawasaki City		Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.		Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	tr(1.1)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	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	Killokawa-oliashi Briuge, woulii of Kiv. Killokawa (wakayani	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
S	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	Shinkawa-bashi Bridge, 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 surve

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.

[21] Hexachlorobuta-1,3-diene/surface water (pg/L)

Monitored year: 2021

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

Detection limit : 70 Quantification limit : 180

	Aggregated value
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	Toyosawa-bashi Bridge, 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
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
,		Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City		Yokohama Port	nd
Kawasaki City		Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.		Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	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-onasin bridge, ivioutii of Kiv. Kinokawa (wakayani	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
111100111111111111111111111111111111111	_	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
g	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	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
8	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd
		I .	

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

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.

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

Monitored year: 2021

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

Detection limit: *1,900 Quantification limit: *4,800

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	15,000
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(2,100)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(2,100)
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(2,200)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	15,000
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(4,100)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(3,900)
•	13	Mouth of Riv. Sumida (Minato Ward)	tr(2,300)
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(3,000)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(4,000)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	tr(4,000)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(2,100)
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(1,900)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(2,200)
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-onasin bridge, wodun or Kiv. Kinokawa (wakayam	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	Shinkawa-bashi Bridge, 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 surve

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 5) *: Indicates the sum value of the Quantification [Detection] limits of each substance with the same number of carbons in the alkyl group.

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

Monitored year: 2021

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

Detection limit : 300 Quantification limit : 700

	Aggregated value
Geometric mean	tr(500)
Median	tr(500)
Maximum	1,100
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	800
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(400)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	900
Akita Pref.	4	Lake Hachiro	tr(500)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(400)
Fukushima Pref.	6	Onahama Port	900
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	800
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(500)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(400)
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	tr(400)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	1,100
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	800
	13	Mouth of Riv. Sumida (Minato Ward)	700
Yokohama City	14	Yokohama Port	tr(500)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(500)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(500)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(300)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(500)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(400)
Nagano Pref.	20	Lake Suwa (center)	800
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(500)
Aichi Pref.	22	Nagoya Port	tr(500)
Mie Pref.	23	Yokkaichi Port	tr(400)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(400)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(600)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(600)
Osaka City	27	Osaka Port	tr(500)
Hyogo Pref.	28	Offshore of Himeji	tr(400)
Kobe City	29	Kobe Port (center)	tr(500)
Wakayama Pref.	30	Killokawa-oliashi biluge, woudi of Kiv. Killokawa (wakayahi	tr(400)
Okayama Pref.	31	Offshore of Mizushima	900
Hiroshima Pref.	32	Kure Port	tr(500)
	33	Hiroshima Bay	tr(500)
Yamaguchi Pref.	34	Tokuyama Bay	tr(500)
	35	Offshore of Ube	tr(500)
	36	Offshore of Hagi	tr(500)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(400)
Kagawa Pref.	38	Takamatsu Port	tr(500)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(500)
Kitakyushu City	40	Dokai Bay	tr(400)
Saga Pref.		Imari Bay	tr(400)
Nagasaki Pref.	42	Omura Bay	tr(500)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.		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 surve

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.

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

Monitored year: 2021

Detection Frequency (site): 26/47 (Missing value: 0)
Detection Frequency (sample): 26/47 (Missing value: 0)

Detection limit : 300 Quantification limit : 900

	Aggregated value
Geometric mean	tr(300)
Median	tr(300)
Maximum	1,200
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(600)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(600)
Akita Pref.	4	Lake Hachiro	tr(400)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(600)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(600)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(300)
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	tr(600)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	1,000
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	1,200
	13	Mouth of Riv. Sumida (Minato Ward)	tr(700)
Yokohama City	14	Yokohama Port	tr(300)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	900
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(700)
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(400)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(600)
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(300)
Nagano Pref.	20	Lake Suwa (center)	1,000
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(300)
Aichi Pref.	22	Nagoya Port	1,000
Mie Pref.	23	Yokkaichi Port	tr(300)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(300)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(700)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(800)
Osaka City	27	Osaka Port	tr(300)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Killokawa-oliashi Biluge, wouli of Kiv. Killokawa (wakayani	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(400)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	tr(300)
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	Shinkawa-bashi Bridge, 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 surve

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.

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

Monitored year: 2021

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

Detection limit : 500 Quantification limit : 1,200

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	4,900
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(700)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(600)
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(700)
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	4,900
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(1100)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(700)
•	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(600)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(1,100)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	tr(900)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(600)
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(600)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(800)
Osaka City	27	Osaka Port	tr(600)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Killokawa-oliashi biluge, wouth of Kiv. Killokawa (wakayani	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	Shinkawa-bashi Bridge, 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 surve

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.

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

Monitored year: 2021

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

Detection limit : 800 Quantification limit : 2,000

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	8,600
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, 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)	8,600
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(900)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(1,200)
	13	Mouth of Riv. Sumida (Minato Ward)	tr(900)
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(1,000)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(1,700)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.		Lake Suwa (center)	tr(1,300)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	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-onasin briuge, woudi of Kiv. Kinokawa (wakayani	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	Shinkawa-bashi Bridge, 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 surve

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.

[25] Perfluorohexane sulfonic acid (PFHxS) /surface water (pg/L)

Monitored year: 2021

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

Detection limit: 30 Quantification limit: 70

	Aggregated value
Geometric mean	160
Median	110
Maximum	2,300
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	100
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	70
Akita Pref.	4	Lake Hachiro	80
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	180
Fukushima Pref.	6	Onahama Port	70
Ibaraki Pref.	7	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	810
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	590
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	330
Saitama Pref.	10	Akigase-shusuizeki Weir, Riv. Arakawa (Shiki City)	940
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	520
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	350
,	13	Mouth of Riv. Sumida (Minato Ward)	1,200
Yokohama City	14	Yokohama Port	360
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	420
Niigata Pref.		Lower Riv. Shinano (Niigata City)	120
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	70
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	2,300
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(60)
Nagano Pref.		Lake Suwa (center)	110
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	80
Aichi Pref.		Nagoya Port	270
Mie Pref.	23	Yokkaichi Port	90
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	230
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	770
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	940
Osaka City	27	Osaka Port	850
Hyogo Pref.	28	Offshore of Himeji	70
Kobe City	29	Kobe Port (center)	210
Wakayama Pref.	30	Killokawa-oliashi biluge, woduli ol Kiv. Killokawa (wakayani	110
Okayama Pref.	31	Offshore of Mizushima	90
Hiroshima Pref.	32	Kure Port	80
	33	Hiroshima Bay	100
Yamaguchi Pref.	34	Tokuyama Bay	tr(40)
	35	Offshore of Ube	tr(50)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	80
Kagawa Pref.	38	Takamatsu Port	100
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	110
Saga Pref.	41	Imari Bay	tr(40)
Nagasaki Pref.	42	Omura Bay	110
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	680
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	70
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	120
-	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	240
Okinawa Pref.	47	Naha Port	700

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

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] Total Polychlorinated biphenyls (Total PCBs)/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	4,900
Median	4,800
Maximum	450,000
Minimum	33

Lacal communities	No	Monitored sites	A composted value
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value 1,100
Поккатао	2	Tomakomai Port	6,400
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	120
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	2,300
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	94
Akita Pref.	6	Lake Hachiro	2,200
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	1,200
Fukushima Pref.	8	Onahama Port	25,000
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	1,600
Tochigi Pref.	10		240
Chiba Pref.	11	Coast of Ichihara and Anegasaki	22,000
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	440
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	52,000
,	14	Mouth of Riv. Sumida (Minato Ward)	220,000
Yokohama City	15	Yokohama Port	58,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	26,000
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	68,000
Niigata Pref.		Lower Riv. Shinano (Niigata City)	730
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	610
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	9,400
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1,200
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	330
Nagano Pref.		Lake Suwa (center)	3,600
Shizuoka Pref.	24		11,000
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	220
Aichi Pref.		Kinuura Port	4,100
) (; P 0		Nagoya Port	59,000
Mie Pref.		Yokkaichi Port	18,000
CI: D C		Toba Port	59,000
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	3,400
Kyoto City		Lake Biwa (center, offshore of Karasaki) Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	7,900 7,300
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	36,000
Osaka Fier. Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	35,000
Osaka City		Mouth of Riv. Yodo (Osaka City)	65,000
		Osaka Port	450,000
		Outside Osaka Port	120,000
Hyogo Pref.		Offshore of Himeji	8,900
Kobe City		Kobe Port (center)	180,000
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	530
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	7,100
Okayama Pref.	42	Offshore of Mizushima	1,700
Hiroshima Pref.	43	Kure Port	44,000
	44	Hiroshima Bay	12,000
Yamaguchi Pref.	45	Tokuyama Bay	2,600
	46	Offshore of Ube	3,300
	47	Offshore of Hagi	850
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	1,100
Kagawa Pref.	49	Takamatsu Port	40,000
Ehime Pref.		Niihama Port	5,200
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	610
Kitakyushu City	52	Dokai Bay	290,000
Fukuoka City	53	Hakata Bay	5,800
Saga Pref.	54	-	4,100
Nagasaki Pref.	55	j.	4,500
Oita Pref.		Mouth of Riv. Oita (Oita City) Mouth of Riv. Oyodo (Miyazaki City)	2,000
Miyazaki Pref. Kagoshima Pref.	57 58	Riv. Amori (Kirishima City)	33
Kagosiiiiia Fiel.	59	Riv. Gotanda (Ichikikushikino City)	55
Okinawa Pref.	60	Naha Port	81,000
OKIIIawa I ICI.	50	1 - 100.00	01,000

⁽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 congeners.

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

Monitored year: 2021

Detection Frequency (site): 57/60 (Missing value: 0)
Detection Frequency (sample): 57/60 (Missing value: 0)

	Aggregated value
Geometric mean	19
Median	28
Maximum	1,300
Minimum	nd

T1	NI.	Monitored sites	A 1 1
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
Hokkaido	2	Tomakomai Port	2.8
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	0.5
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	40
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	11
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	2.1
Fukushima Pref.	8	Onahama Port	320
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	12
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.2)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	60
Chiba City		Mouth of Riv. Hanami (Chiba City)	1.6
Tokyo Met.	_	Mouth of Riv. Arakawa (Koto Ward)	170
		Mouth of Riv. Sumida (Minato Ward)	610
Yokohama City	15	Yokohama Port	300
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	34
N D. C		Front of Ougi Town, Keihin Canal, Port of Kawasaki	280
Niigata Pref.		Lower Riv. Shinano (Niigata City)	4.7
Toyama Pref. Ishikawa Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	99 11
Fukui Pref.	20	Mouth of Riv. Sai (Kanazawa City) Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	5.9
Nagano Pref.		Lake Suwa (center)	21
Shizuoka Pref.	24		55
Sinzuoka 1 ici.		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	0.6
Aichi Pref.		Kinuura Port	26
111011111111		Nagoya Port	260
Mie Pref.		Yokkaichi Port	63
	29	Toba Port	42
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	16
	31	Lake Biwa (center, offshore of Karasaki)	25
Kyoto City	35	Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	36
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	64
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	79
		Mouth of Riv. Yodo (Osaka City)	120
		Osaka Port	1,300
		Outside Osaka Port	560
Hyogo Pref.		Offshore of Himeji	79
Kobe City		Kobe Port (center)	180
Nara Pref. Wakayama Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	2.7 160
Okayama Pref.	42		24
Hiroshima Pref.	43	Kure Port	44
Tili Osinina Tiei.		Hiroshima Bay	43
Yamaguchi Pref.	45	Tokuyama Bay	23
rumagaem rren	46	Offshore of Ube	24
	47	Offshore of Hagi	5.4
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	5.7
Kagawa Pref.	49	Takamatsu Port	92
Ehime Pref.	50	Niihama Port	5.8
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	3.9
Kitakyushu City	52	Dokai Bay	650
Fukuoka City	53	Hakata Bay	35
Saga Pref.	54	· · · · · · · · · · · · · · · · · · ·	26
Nagasaki Pref.	55		31
Oita Pref.		Mouth of Riv. Oita (Oita City)	12
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	0.5
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd 1
Oleiner B. C	59	Riv. Gotanda (Ichikikushikino City)	nd 240
Okinawa Pref.	60	Naha Port	240

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

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

Monitored year: 2021

Detection Frequency (site): 58/60 (Missing value: 0)
Detection Frequency (sample): 58/60 (Missing value: 0)

Detection limit: 0.3 Quantification limit: 0.8

	Aggregated value
Geometric mean	180
Median	250
Maximum	15,000
Minimum	nd

Local communities	No	Monitored sites	A composted value
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value 49
Hokkaldo	2	Tomakomai Port	990
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	250
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	2.5
Akita Pref.	6	Lake Hachiro	37
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	22
Fukushima Pref.	8	Onahama Port	3,100
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	75
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	13
Chiba Pref.	11	Coast of Ichihara and Anegasaki	630
Chiba City		Mouth of Riv. Hanami (Chiba City)	18
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	2,200
W 1 1 G':		Mouth of Riv. Sumida (Minato Ward)	6,900
Yokohama City	15	Yokohama Port	1,500
Kawasaki City		Mouth of Riv. Tama (Kawasaki City) Front of Ougi Town, Keihin Canal, Port of Kawasaki	670
Niigata Pref.		Lower Riv. Shinano (Niigata City)	1,500 35
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	17
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	300
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	27
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	19
Nagano Pref.		Lake Suwa (center)	79
Shizuoka Pref.	24	Shimizu Port	840
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	4.3
Aichi Pref.	26	Kinuura Port	240
	27	Nagoya Port	4,100
Mie Pref.		Yokkaichi Port	900
		Toba Port	250
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	80
		Lake Biwa (center, offshore of Karasaki)	260
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	610
Osaka Pref.		Mouth of Riv. Yamato (Sakai City) Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	2,200 1,200
Osaka City		Mouth of Riv. Yodo (Osaka City)	2,300
		Osaka Port	15,000
		Outside Osaka Port	6,700
Hyogo Pref.		Offshore of Himeji	720
Kobe City		Kobe Port (center)	2,400
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	28
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1,200
Okayama Pref.	42		190
Hiroshima Pref.	43	Kure Port	550
	44	Hiroshima Bay	530
Yamaguchi Pref.	45	Tokuyama Bay	120
	46	Offshore of Ube	190
	47	Offshore of Hagi	33
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	47
Kagawa Pref.	49	Takamatsu Port	1,800
Ehime Pref.		Niihama Port	49
Kochi Pref. Kitakyushu City	51 52	Mouth of Riv. Shimanto (Shimanto City) Dokai Bay	28 7,900
Fukuoka City	53	Hakata Bay	370
Saga Pref.	54		230
Nagasaki Pref.	55		280
Oita Pref.		Mouth of Riv. Oita (Oita City)	220
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	4.6
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
	59	Riv. Gotanda (Ichikikushikino City)	2.6
Okinawa Pref.	60	Naha Port	2,100

⁽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.

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

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	640
Median	750
Maximum	98,000
Minimum	2.0

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	140
Hokkuldo	2	Tomakomai Port	860
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	3.1
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	270
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	14
Akita Pref.	6	Lake Hachiro	120
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	81
Fukushima Pref.	8	Onahama Port	6,800
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	260
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	64
Chiba Pref.		Coast of Ichihara and Anegasaki	3,400
Chiba City		Mouth of Riv. Hanami (Chiba City)	95
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	13,000
		Mouth of Riv. Sumida (Minato Ward)	45,000
Yokohama City	15		6,600
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	4,700
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	8,800
Niigata Pref.		Lower Riv. Shinano (Niigata City)	120
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	84
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	2,300
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	220
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	32
Nagano Pref. Shizuoka Pref.		Lake Suwa (center)	340
Snizuoka Prei.		Shimizu Port Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	3,100
Aichi Pref.		Kinuura Port	710
Alcili Piel.		Nagoya Port	18,000
Mie Pref.		Yokkaichi Port	4,200
WHE I ICI.		Toba Port	860
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	300
Singu i ici.		Lake Biwa (center, offshore of Karasaki)	920
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	1,800
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	3,500
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	5,700
,		Mouth of Riv. Yodo (Osaka City)	13,000
		Osaka Port	98,000
	37	Outside Osaka Port	26,000
Hyogo Pref.	38	Offshore of Himeji	2,000
Kobe City	39	Kobe Port (center)	9,900
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	57
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	790
Okayama Pref.	42	Offshore of Mizushima	310
Hiroshima Pref.	43	Kure Port	2,200
		Hiroshima Bay	1,300
Yamaguchi Pref.		Tokuyama Bay	250
	46	Offshore of Ube	480
	47	Offshore of Hagi	79
Tokushima Pref.	_	Mouth of Riv. Yoshino (Tokushima City)	150
Kagawa Pref.	49	Takamatsu Port	12,000
Ehime Pref.		Niihama Port	98
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	63
Kitakyushu City		Dokai Bay	59,000
Fukuoka City		Hakata Bay	1,100
Saga Pref.		Imari Bay	600
Nagasaki Pref.		,	640
Oita Pref.		Mouth of Riv. Oita (Oita City) Mouth of Riv. Oyodo (Miyazaki City)	820 7.4
Miyazaki Pref. Kagoshima Pref.			
Kagosiiiiia Pref.		Riv. Amori (Kirishima City) Riv. Gotanda (Ichikikushikino City)	2.0
Okinawa Pref.		Naha Port	5,600
Okinawa 1 ICI.	00	I tuin I Oit	5,000

⁽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] Tetrachlorobiphenyls/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0)
Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	1,100
Median	980
Maximum	150,000
Minimum	7.6

Lacal communities	No	Monitored sites	Aggregated value
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
Hokkaido	2	Tomakomai Port	1,500
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	25
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	410
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	14
Akita Pref.	6	Lake Hachiro	320
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	220
Fukushima Pref.	8	Onahama Port	7,100
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	460
Tochigi Pref.	10		77
Chiba Pref.	11	Coast of Ichihara and Anegasaki	6,600
Chiba City		Mouth of Riv. Hanami (Chiba City)	130
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	20,000
		Mouth of Riv. Sumida (Minato Ward)	94,000
Yokohama City	15	Yokohama Port	13,000
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	10,000
) T		Front of Ougi Town, Keihin Canal, Port of Kawasaki	17,000
Niigata Pref.		Lower Riv. Shinano (Niigata City)	180
Toyama Pref. Ishikawa Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	160 3,500
Fukui Pref.	20	Mouth of Riv. Sai (Kanazawa City) Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	670
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	58
Nagano Pref.		Lake Suwa (center)	770
Shizuoka Pref.	24		3,400
Silizuoka 1 ici.		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	41
Aichi Pref.		Kinuura Port	1,100
111011111111		Nagoya Port	21,000
Mie Pref.		Yokkaichi Port	5,100
	29	Toba Port	2,000
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	700
_	31	Lake Biwa (center, offshore of Karasaki)	1,400
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	1,800
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	5,200
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	8,700
		Mouth of Riv. Yodo (Osaka City)	19,000
		Osaka Port	150,000
		Outside Osaka Port	36,000
Hyogo Pref.		Offshore of Himeji	2,100
Kobe City		Kobe Port (center)	18,000
Nara Pref. Wakayama Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	110 1,300
Okayama Pref.	42		310
Hiroshima Pref.	43	Kure Port	5,200
Tili Osinina Tiei.		Hiroshima Bay	1,900
Yamaguchi Pref.	45	Tokuyama Bay	330
r umagaem r rei.	46	Offshore of Ube	800
	47	Offshore of Hagi	120
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	240
Kagawa Pref.	49	Takamatsu Port	14,000
Ehime Pref.	50	Niihama Port	110
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	97
Kitakyushu City	52	Dokai Bay	120,000
Fukuoka City	53	Hakata Bay	1,600
Saga Pref.	54	,	710
Nagasaki Pref.	55	, , , , , , , , , , , , , , , , , , ,	860
Oita Pref.		Mouth of Riv. Oita (Oita City)	660
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	11
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	7.6
01: 7.6	59	Riv. Gotanda (Ichikikushikino City)	10
Okinawa Pref.	60	Naha Port	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.

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

Monitored year: 2021

Detection Frequency (site): 58/60 (Missing value: 0)
Detection Frequency (sample): 58/60 (Missing value: 0)

	Aggregated value
Geometric mean	22
Median	24
Maximum	3,000
Minimum	nd

Local communities	Νa	Monitored sites	A composited violate
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value 3.2
Поккатао	2	Tomakomai Port	24
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(0.3)
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	10
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	tr(0.4)
Akita Pref.	6	Lake Hachiro	13
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	4.2
Fukushima Pref.	8	Onahama Port	140
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	13
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	2.1
Chiba Pref.	11	Coast of Ichihara and Anegasaki	140
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	2.7
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	680
·	14	Mouth of Riv. Sumida (Minato Ward)	2,200
Yokohama City	15	Yokohama Port	190
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	75
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	260
Niigata Pref.		Lower Riv. Shinano (Niigata City)	4.2
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	2.8
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	54
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1.3
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	1.7
Nagano Pref.	23	Lake Suwa (center)	28
Shizuoka Pref.	24		81
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	0.9
Aichi Pref.		Kinuura Port	22
) (i D 0		Nagoya Port	200
Mie Pref.		Yokkaichi Port	79
at i b a	_	Toba Port	38
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	23
Kyoto City		Lake Biwa (center, offshore of Karasaki) Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	64
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	110
Osaka Piei. Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	210
Osaka City		Mouth of Riv. Yodo (Osaka City)	360
		Osaka Port	3,000
		Outside Osaka Port	600
Hyogo Pref.		Offshore of Himeji	170
Kobe City		Kobe Port (center)	310
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	2.5
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	250
Okayama Pref.	42	Offshore of Mizushima	8.2
Hiroshima Pref.	43	Kure Port	69
	44	Hiroshima Bay	31
Yamaguchi Pref.	45	Tokuyama Bay	9.4
	46	Offshore of Ube	14
	47	Offshore of Hagi	3.0
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	5.2
Kagawa Pref.	49	Takamatsu Port	280
Ehime Pref.		Niihama Port	2.7
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	2.9
Kitakyushu City	52	Dokai Bay	1,700
Fukuoka City	53	Hakata Bay	33
Saga Pref.	54	· · · · · · · · · · · · · · · · · · ·	17
Nagasaki Pref.	55		21
Oita Pref.		Mouth of Riv. Oita (Oita City)	7.9
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58 59	Riv. Amori (Kirishima City) Riv. Gotanda (Ichikikushikino City)	nd 0.8
Okinawa Pref.	60	Naha Port	85
Okinawa 1101.	UU	1 varia 1 Vit	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 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

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

Monitored year: 2021

Detection Frequency (site): 51/60 (Missing value: 0) Detection Frequency (sample): 51/60 (Missing value: 0)

	Aggregated value
Geometric mean	2.1
Median	2.2
Maximum	170
Minimum	nd

Lacal communities	No	Monitored sites	A composited violate
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
Поккатао	2	Tomakomai Port	tr(0.6) 2.5
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	0.9
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	1.1
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	tr(0.5)
Fukushima Pref.	8	Onahama Port	10
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(0.7)
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	7.3
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	15
,	14	Mouth of Riv. Sumida (Minato Ward)	74
Yokohama City	15	Yokohama Port	16
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	8.6
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	25
Niigata Pref.		Lower Riv. Shinano (Niigata City)	tr(0.4)
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(0.3)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	3.9
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(0.3)
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(0.3)
Nagano Pref.		Lake Suwa (center)	2.2
Shizuoka Pref.	24		5.2
4:1:D 0		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port Nagoya Port	1.3
Mie Pref.		Yokkaichi Port	17 5.7
Mile Prei.		Toba Port	4.6
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	2.7
Siliga i ici.		Lake Biwa (center, offshore of Karasaki)	5.8
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	3.0
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	12
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	19
		Mouth of Riv. Yodo (Osaka City)	29
	36	Osaka Port	170
	37	Outside Osaka Port	42
Hyogo Pref.	38	Offshore of Himeji	4.0
Kobe City	39	Kobe Port (center)	38
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(0.5)
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	3.2
Okayama Pref.	42		tr(0.6)
Hiroshima Pref.	43	Kure Port	9.8
		Hiroshima Bay	3.4
Yamaguchi Pref.	45	Tokuyama Bay	0.8
	46	Offshore of Ube	1.3
T-1	47	Offshore of Hagi	nd
Tokushima Pref. Kagawa Pref.	48	Mouth of Riv. Yoshino (Tokushima City) Takamatsu Port	tr(0.7)
Ehime Pref.		Niihama Port	tr(0.4)
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	tr(0.3)
Kitakyushu City	52	Dokai Bay	120
Fukuoka City	53	Hakata Bay	2.2
Saga Pref.	54		1.3
Nagasaki Pref.	55	•	1.4
Oita Pref.	56	Mouth of Riv. Oita (Oita City)	tr(0.5)
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	Naha Port	13

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

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

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	1,000
Median	1,100
Maximum	97,000
Minimum	12

Lacal communities	No	Monitored sites	A compacted value
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value 380
Hokkaido	2	Tomakomai Port	1,100
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	56
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	440
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	21
Akita Pref.	6	Lake Hachiro	860
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	490
Fukushima Pref.	8	Onahama Port	3,600
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	390
Tochigi Pref.	10		43
Chiba Pref.	11	Coast of Ichihara and Anegasaki	5,200
Chiba City		Mouth of Riv. Hanami (Chiba City)	97
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	10,000
V 1 1 G'		Mouth of Riv. Sumida (Minato Ward)	49,000
Yokohama City	15	Yokohama Port	13,000
Kawasaki City		Mouth of Riv. Tama (Kawasaki City) Front of Ougi Town, Keihin Canal, Port of Kawasaki	6,400
Niigata Pref.		Lower Riv. Shinano (Niigata City)	18,000 210
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	130
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	1,900
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	200
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	110
Nagano Pref.	23	Lake Suwa (center)	1,100
Shizuoka Pref.	24	Shimizu Port	1,500
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	64
Aichi Pref.	26	Kinuura Port	880
		Nagoya Port	9,100
Mie Pref.		Yokkaichi Port	3,700
		Toba Port	4,700
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	1,100
W. C.		Lake Biwa (center, offshore of Karasaki)	2,400
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	1,900
Osaka Pref. Osaka City		Mouth of Riv. Yamato (Sakai City) Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	6,100 9,800
Osaka City		Mouth of Riv. Yodo (Osaka City)	17,000
		Osaka Port	97,000
		Outside Osaka Port	27,000
Hyogo Pref.		Offshore of Himeji	1,600
Kobe City		Kobe Port (center)	26,000
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	160
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1,500
Okayama Pref.	42		220
Hiroshima Pref.	43	Kure Port	8,800
		Hiroshima Bay	2,400
Yamaguchi Pref.	45	Tokuyama Bay	370
	46	Offshore of Ube	600
T 1 1: D C	47	Offshore of Hagi	140
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City) Takamatsu Port	290
Kagawa Pref. Ehime Pref.	49	Niihama Port	6,500 250
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	140
Kitakyushu City	52	Dokai Bay	60,000
Fukuoka City	53	Hakata Bay	1,200
Saga Pref.	54	·	710
Nagasaki Pref.	55		890
Oita Pref.		Mouth of Riv. Oita (Oita City)	150
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	12
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	14
	59	Riv. Gotanda (Ichikikushikino City)	20
Okinawa Pref.	60	Naha Port	13,000

⁽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) /sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	64
Median	72
Maximum	6,000
Minimum	1.2

Local communities	No	Monitored sites	A composted value
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value 25
Поккатао	2	Tomakomai Port	78
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	3.0
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	31
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	1.7
Akita Pref.	6	Lake Hachiro	56
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	35
Fukushima Pref.	8	Onahama Port	290
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	29
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	3.5
Chiba Pref.	11	Coast of Ichihara and Anegasaki	330
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	7.8
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	450
,	14	Mouth of Riv. Sumida (Minato Ward)	2,400
Yokohama City	15	Yokohama Port	840
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	310
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,300
Niigata Pref.		Lower Riv. Shinano (Niigata City)	14
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	9.9
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	120
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	4.6
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	8.3
Nagano Pref.		Lake Suwa (center)	65
Shizuoka Pref.	24		130
1:1:D 0		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	5.4
Aichi Pref.		Kinuura Port	60
Mie Pref.		Nagoya Port Yokkaichi Port	420
Mile Prei.		Toba Port	210
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	78
Siliga I ICI.		Lake Biwa (center, offshore of Karasaki)	190
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	100
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	400
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	670
		Mouth of Riv. Yodo (Osaka City)	940
	36	Osaka Port	6,000
	37	Outside Osaka Port	1,200
Hyogo Pref.	38	Offshore of Himeji	96
Kobe City	39	Kobe Port (center)	1,100
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	12
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	110
Okayama Pref.	42		12
Hiroshima Pref.	43	Kure Port	260
		Hiroshima Bay	98
Yamaguchi Pref.	45	Tokuyama Bay	16
	46	Offshore of Ube	39
T-1	47	Offshore of Hagi	8.2
Tokushima Pref. Kagawa Pref.	48	Mouth of Riv. Yoshino (Tokushima City) Takamatsu Port	22 560
Ehime Pref.		Niihama Port	5.1
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	13
Kitakyushu City	52	Dokai Bay	4,900
Fukuoka City	53	Hakata Bay	100
Saga Pref.	54	•	56
Nagasaki Pref.	55		53
Oita Pref.		Mouth of Riv. Oita (Oita City)	8.2
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	1.2
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	1.3
	59	Riv. Gotanda (Ichikikushikino City)	1.6
Okinawa Pref.	60	Naha Port	430

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

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

Monitored year: 2021

Detection Frequency (site): 51/60 (Missing value: 0) Detection Frequency (sample): 51/60 (Missing value: 0)

	Aggregated value
Geometric mean	2.9
Median	3.6
Maximum	420
Minimum	nd

T1	NI.	Monitored sites	A 1 1
Local communities Hokkaido	No.		Aggregated value
Hokkaido	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City) Tomakomai Port	1.3
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	1.4
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	3.1
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	2.0
Fukushima Pref.	8	Onahama Port	18
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	1.5
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	9.3
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	0.4
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	26
·	14	Mouth of Riv. Sumida (Minato Ward)	160
Yokohama City	15	Yokohama Port	37
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	18
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	70
Niigata Pref.		Lower Riv. Shinano (Niigata City)	0.7
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	0.6
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	7.7
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	0.5
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	0.5
Nagano Pref.		Lake Suwa (center)	3.0
Shizuoka Pref.	24		6.2
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	1.8
) (; D, C		Nagoya Port	21
Mie Pref.		Yokkaichi Port	12
China Duaf	_	Toba Port Lake Biwa (center, offshore of Minamihira)	8.3
Shiga Pref.		Lake Biwa (center, offshore of Minaminira) Lake Biwa (center, offshore of Karasaki)	5.0
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	6.1
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	26
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	38
Osuku City		Mouth of Riv. Yodo (Osaka City)	55
		Osaka Port	420
		Outside Osaka Port	76
Hyogo Pref.		Offshore of Himeji	4.0
Kobe City		Kobe Port (center)	52
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	0.7
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	6.9
Okayama Pref.	42		0.5
Hiroshima Pref.	43	Kure Port	11
	44	Hiroshima Bay	4.2
Yamaguchi Pref.	45	Tokuyama Bay	0.6
	46	Offshore of Ube	2.0
	47	Offshore of Hagi	nd
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	1.1
Kagawa Pref.	49	Takamatsu Port	36
Ehime Pref.		Niihama Port	nd
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	0.6
Kitakyushu City	52	Dokai Bay	370
Fukuoka City	53	Hakata Bay	4.9
Saga Pref.	54		2.9
Nagasaki Pref. Oita Pref.	55	Mouth of Riv. Oita (Oita City)	0.5
Miyazaki Pref.		Mouth of Riv. Otta (Otta City) Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
Kagusiillia Fiel.	59	Riv. Amori (Kirisiinia City) Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	Naha Port	29
ORIHAWA 1 101.	00	1 100220 1 010	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.

⁽Note 4) nd: Not detected

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

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	170
Median	170
Maximum	15,000
Minimum	2.8

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
Hokkaldo	2	Tomakomai Port	170
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	10
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	97
Sendai City		Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	4.3
Akita Pref.	6	Lake Hachiro	160
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	83
Fukushima Pref.	8	Onahama Port	610
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	71
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	7.2
Chiba Pref.		Coast of Ichihara and Anegasaki	940
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	17
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	1,600
	14	Mouth of Riv. Sumida (Minato Ward)	7,400
Yokohama City	15	Yokohama Port	2,300
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	1,100
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	3,700
Niigata Pref.		Lower Riv. Shinano (Niigata City)	33
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	22
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	310
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	8.7
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	19
Nagano Pref.		Lake Suwa (center)	150
Shizuoka Pref.		Shimizu Port	260
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	12
Aichi Pref.		Kinuura Port	170
		Nagoya Port	1,300
Mie Pref.		Yokkaichi Port	710
		Toba Port	480
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	190
W. C.		Lake Biwa (center, offshore of Karasaki)	410
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	320
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	890
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,800
		Mouth of Riv. Yodo (Osaka City) Osaka Port	2,600
		Outside Osaka Port	15,000
II D£			4,100 300
Hyogo Pref. Kobe City		Offshore of Himeji Kobe Port (center)	4,000
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	27
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	270
Okayama Pref.	42	Offshore of Mizushima	39
Hiroshima Pref.	43		1,100
Timosimia Tiei.		Hiroshima Bay	360
Yamaguchi Pref.		Tokuyama Bay	57
r amagaem r rer.	46	Offshore of Ube	98
	47	Offshore of Hagi	24
Tokushima Pref.		Mouth of Riv. Yoshino (Tokushima City)	52
Kagawa Pref.	49	Takamatsu Port	1,200
Ehime Pref.		Niihama Port	24
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	28
Kitakyushu City	52	Dokai Bay	9,600
Fukuoka City	53	Hakata Bay	250
Saga Pref.		Imari Bay	130
Nagasaki Pref.	55	Omura Bay	170
Oita Pref.	56	Mouth of Riv. Oita (Oita City)	25
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	2.8
Kagoshima Pref.		Riv. Amori (Kirishima City)	2.8
	59	Riv. Gotanda (Ichikikushikino City)	3.0
Okinawa Pref.	60	Naha Port	1,500
	_		

⁽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.

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

Monitored year: 2021

Detection Frequency (site): 50/60 (Missing value: 0) Detection Frequency (sample): 50/60 (Missing value: 0)

	Aggregated value
Geometric mean	2.9
Median	3.7
Maximum	320
Minimum	nd

I and announities	Νa	Monitored sites	A composted value
Local communities Hokkaido	No.		Aggregated value
Hokkaido	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City) Tomakomai Port	0.8
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	2.0
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	2.7
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	1.7
Fukushima Pref.	8	Onahama Port	15
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	1.6
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	14
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	27
	14	Mouth of Riv. Sumida (Minato Ward)	140
Yokohama City	15	Yokohama Port	41
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	17
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	62
Niigata Pref.		Lower Riv. Shinano (Niigata City)	0.7
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	0.6
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	6.4
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	0.4
Nagano Pref.		Lake Suwa (center)	3.2
Shizuoka Pref.	24		6.7
4:1:D C		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port Nagoya Port	2.7
Mie Pref.		Yokkaichi Port	27
MIC FICE.		Toba Port	7.2
Shiga Pref.	_	Lake Biwa (center, offshore of Minamihira)	4.5
Singa i ici.		Lake Biwa (center, offshore of Karasaki)	9.8
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	6.8
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	17
Osaka City	32	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	38
	33	Mouth of Riv. Yodo (Osaka City)	52
		Osaka Port	320
		Outside Osaka Port	75
Hyogo Pref.		Offshore of Himeji	5.6
Kobe City		Kobe Port (center)	55
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	0.7
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	6.0
Okayama Pref. Hiroshima Pref.	42		0.7
Hirosnima Prei.		Kure Port Hiroshima Bay	17 7.2
Yamaguchi Pref.	45	Tokuyama Bay	1.1
i amagucin i ici.	46	Offshore of Ube	2.3
	47	Offshore of Hagi	0.6
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	1.3
Kagawa Pref.	49	Takamatsu Port	28
Ehime Pref.	50	Niihama Port	nd
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	0.7
Kitakyushu City	52	Dokai Bay	260
Fukuoka City	53	Hakata Bay	6.5
Saga Pref.	54		3.1
Nagasaki Pref.	55		3.2
Oita Pref.		Mouth of Riv. Oita (Oita City)	0.5
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58 59	Riv. Amori (Kirishima City)	nd
Okinawa Pref.	60	Riv. Gotanda (Ichikikushikino City) Naha Port	nd 24
Okiliawa Piel.	UU	I valia I Ott	∠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.

⁽Note 4) nd : Not detected

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

Monitored year: 2021

Detection Frequency (site): 45/60 (Missing value: 0) Detection Frequency (sample): 45/60 (Missing value: 0)

	Aggregated value
Geometric mean	1.7
Median	3.6
Maximum	81
Minimum	nd

Local communities	Νa	Monitored sites	A composted value
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
Поккатао	2	Tomakomai Port	nd 4.7
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	1.4
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	2.1
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	0.7
Fukushima Pref.	8	Onahama Port	17
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	1.8
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	11
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	0.9
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	30
·	14	Mouth of Riv. Sumida (Minato Ward)	45
Yokohama City	15	Yokohama Port	15
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	7.6
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	20
Niigata Pref.		Lower Riv. Shinano (Niigata City)	0.6
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	3.9
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	0.4
Nagano Pref.		Lake Suwa (center)	4.1
Shizuoka Pref.	24		3.2
1:1:D 0		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port Nagoya Port	2.1
Mie Pref.		Yokkaichi Port	8.6 5.6
Mile Prei.		Toba Port	6.2
Shiga Pref.	_	Lake Biwa (center, offshore of Minamihira)	7.2
Siliga I ICI.		Lake Biwa (center, offshore of Karasaki)	8.5
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	1.2
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	25
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	19
		Mouth of Riv. Yodo (Osaka City)	22
	36	Osaka Port	81
	37	Outside Osaka Port	16
Hyogo Pref.	38	Offshore of Himeji	5.2
Kobe City	39	Kobe Port (center)	21
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	nd
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	5.0
Okayama Pref.	42		nd
Hiroshima Pref.	43	Kure Port	4.7
		Hiroshima Bay	5.8
Yamaguchi Pref.	45	Tokuyama Bay	7.3
	46	Offshore of Ube	4.1
T 1 1: D C	47	Offshore of Hagi	nd
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	1.2
Kagawa Pref. Ehime Pref.	49	Takamatsu Port Niihama Port	12
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	nd 0.7
Kitakyushu City	52	Dokai Bay	59
Fukuoka City	53	Hakata Bay	2.7
Saga Pref.	54		2.5
Nagasaki Pref.	55		2.1
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	Naha Port	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.

⁽Note 4) nd : Not detected

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

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	920
Median	970
Maximum	64,000
Minimum	7.7

Hokkaido	Local communities	No	Monitored sites	A compacted value
Watte Pref. 3 Toynsawn-bash Bridge, Riv. Toynsawa (Hanamaki City) 3 3		No.		Aggregated value
Inches Prof. 3 Toyossawa-basha Bridge, Riv. Toyossawa (Hanamaki City) 500	Hokkaido			
Myagi Pref. Sendai Bay (Matsushima Bay) 500	Iwate Pref			
Sendia City		_		
Akita Pref. 6 Lake Hachiro 620 74magata Pref. 7 Month of Riv. Mogami (Sakata City) 330 2,600 18 18 18 19 19 19 19 19		5		
Fulkushima Pref. 8 Onahuma Port 2,000 1 270 1 1 270 1 270 1 270 1 270 1 270 1 270 1 270 1 270 1 270 1 270 1 270 270 1 270		6		620
Fulkushima Pref. 8 Onahuma Port 2,000 1 270 1 1 270 1 270 1 270 1 270 1 270 1 270 1 270 1 270 1 270 1 270 1 270 270 1 270	Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	330
Tochigi Perf. 10 Tagawa Kyubun Area Head Works (Usunomiya City) 31	Fukushima Pref.	8		2,600
Chiba Pref. 1 Cous of Ichibara and Anegasski 4,000 1 Chiba City 12 Mouth of Riv. Hanami (Chiba City) 73 75 75 75 75 75 75 75	Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	270
Chiba City		10		
Tokyo Met.				
Tokahama City 15 Vokohama Port 13,000 13,000 13,000 14,000 16 17 17 17 17 17 17 17				
Yokohama City	Tokyo Met.			
Kawasaki Ciry	****			
17 Front of Ougi Town, Keihin Canal, Port of Kawasaki 15,000				
Niigata Pref. 18	Kawasaki City			
Toyama Pref. 19 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 990	Niit- Df		5 , ,	
Ishikawa Pref. 20 Mouth of Riv. Sai (Kanzarawa City) 990				
Fukui Pref. 21 Mishima-bashi Bridge, Riv. Arakawa (Kofu City) 86 Nagano Pref. 23 Lake Suwa (center) 910 Shizuoka Pref. 24 Shimizu Port 1,400 Shizuoka Pref. 25 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 58 Aichi Pref. 26 Kimura Port 790				
Yamanashi Pref. 22 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 86				
Nagano Pref. 23 Lake Suwa (center) 910				
Shizuoka Pref. 24 Shimizu Port 1,400 25 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 58 38 38 38 38 38 38 38				
Aichi Pref. 26 Kinuura Port 790				
Aichi Pref. 26 Kinuura Port 790 27 Nagoya Port 4,700 27 Nagoya Port 2,800 29 Toba Port 2,800 29 Toba Port 21,000 29 Toba Port 21,000 29 Toba Port 21,000 21,000 21,000 29 Toba Port 21,000 21,				
Mie Pref. 28 Yokkaichi Port 2,800 21,000 Shiga Pref. 30 Lake Biwa (center, offshore of Minamihira) 850 31 Lake Biwa (center, offshore of Karasaki) 2,400 Kyoto City 35 Miyamae-bashi Bridge,Riv. Katsura (Kyoto City) 1,000 0,934 7,800 0,950	Aichi Pref.			
29 Toba Port 21,000		27	Nagoya Port	4,700
Shiga Pref. 30 Lake Biwa (center, offshore of Minamihira) 850 31 Lake Biwa (center, offshore of Karasaki) 2,400 32 Lake Biwa (center, offshore of Karasaki) 2,400 35 Miyamae-bashi Bridge,Riv. Katsura (Kyoto City) 1,000 36 Osaka Pref. 32 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 7,800 36 Osaka Port 19,000 40 11,000 37 Outside Osaka Port 19,000 40 40 40 40 40 40 40	Mie Pref.	28	Yokkaichi Port	2,800
Syoto City 35 Miyamac-bashi Bridge, Riv. Katsura (Kyoto City) 1,000		29	Toba Port	21,000
Kyoto City 35 Miyamae-bashi Bridge,Riv. Katsura (Kyoto City) 1,000 Osaka Pref. 34 Mouth of Riv. Yamato (Sakai City) 9,500 Osaka City 32 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 11,000 36 Osaka Port 64,000 37 Outside Osaka Port 19,000 Hyogo Pref. 38 Offshore of Himeji 1,600 Kobe City 39 Kobe Port (center) 55,000 Nara Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town) 130 Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 1,400 Hiroshima Pref. 43 Kure Port 14,000 44 Hiroshima Bay 3,400 Yamaguchi Pref. 45 Tokuyama Bay 760 Yamaguchi Pref. 45 Tokuyama Bay 760 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290 Kagawa Pref. 49 Takamatsu Port 4,200 Kochi Pref. 51 Mouth of Riv. Shimanto (Shiga Pref.		, , ,	850
Osaka Pref. 34 Mouth of Riv. Yamato (Sakai City) 9,500 Osaka City 32 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 7,800 33 Mouth of Riv. Yodo (Osaka City) 11,000 36 Osaka Port 64,000 37 Outside Osaka Port 19,000 Hyogo Pref. 38 Offshore of Himeji 1,600 Kobe City 39 Kobe Port (center) 55,000 Nara Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town) 130 Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 1,400 Okayama Pref. 42 Offshore of Mizushima 340 Hiroshima Pref. 43 Kure Port 14,000 Yamaguchi Pref. 45 Tokuyama Bay 760 Yamaguchi Pref. 45 Tokuyama Bay 760 Yamaguchi Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290 Kagawa Pref. 49 Takamatsu Port 4,200 Ehime Pref. 50 Niihama Port				
Osaka City 32 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 7,800 33 Mouth of Riv. Yodo (Osaka City) 11,000 36 Osaka Port 64,000 37 Outside Osaka Port 19,000 Hyogo Pref. 38 Offshore of Himeji 1,600 Kobe City 39 Kobe Port (center) 55,000 Nara Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town) 130 Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 1,400 Okayama Pref. 42 Offshore of Mizushima 340 Hiroshima Pref. 43 Kure Port 14,000 44 Hiroshima Bay 3,400 Yamaguchi Pref. 45 Tokuyama Bay 760 45 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290 Kagawa Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 1,700 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay	_ , ,			
33 Mouth of Riv. Yodo (Osaka City) 11,000 36 Osaka Port 19,000 19,000 37 Outside Osaka Port 19,000				
36 Osaka Port 37 Outside Osaka Port 19,000	Osaka City			,
37 Outside Osaka Port 19,000				
Hyogo Pref. 38 Offshore of Himeji 1,600				
Kobe City 39 Kobe Port (center) 55,000 Nara Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town) 130 Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 1,400 Okayama Pref. 42 Offshore of Mizushima 340 Hiroshima Pref. 43 Kure Port 14,000 44 Hiroshima Bay 3,400 Yamaguchi Pref. 45 Tokuyama Bay 760 46 Offshore of Ube 670 47 Offshore of Hagi 240 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290 Kagawa Pref. 49 Takamatsu Port 4,200 Ehime Pref. 50 Niihama Port 1,700 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref.	Hyogo Prof			
Nara Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town) 130 Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 1,400 Okayama Pref. 42 Offshore of Mizushima 340 Hiroshima Pref. 43 Kure Port 14,000 44 Hiroshima Bay 3,400 Yamaguchi Pref. 45 Tokuyama Bay 760 46 Offshore of Ube 670 47 Offshore of Hagi 240 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290 Kagawa Pref. 49 Takamatsu Port 4,200 Ehime Pref. 50 Niihama Port 1,700 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. <t< td=""><td></td><td></td><td>i ·</td><td></td></t<>			i ·	
Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 1,400 Okayama Pref. 42 Offshore of Mizushima 340 Hiroshima Pref. 43 Kure Port 14,000 44 Hiroshima Bay 3,400 Yamaguchi Pref. 45 Tokuyama Bay 760 46 Offshore of Ube 670 47 Offshore of Hagi 240 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290 Kagawa Pref. 49 Takamatsu Port 1,700 Kochi Pref. 50 Niihama Port 1,700 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57				
Okayama Pref. 42 Offshore of Mizushima 340 Hiroshima Pref. 43 Kure Port 14,000 44 Hiroshima Bay 3,400 Yamaguchi Pref. 45 Tokuyama Bay 760 46 Offshore of Ube 670 47 Offshore of Hagi 240 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290 Kagawa Pref. 49 Takamatsu Port 4,200 Ehime Pref. 50 Niihama Port 1,700 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15				
44 Hiroshima Bay 3,400 Yamaguchi Pref. 45 Tokuyama Bay 760 46 Offshore of Ube 670 47 Offshore of Hagi 240 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290 Kagawa Pref. 49 Takamatsu Port 4,200 Ehime Pref. 50 Niihama Port 1,700 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15	· · · · · · · · · · · · · · · · · · ·	42		
Yamaguchi Pref. 45 Tokuyama Bay 760 46 Offshore of Ube 670 47 Offshore of Hagi 240 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290 Kagawa Pref. 49 Takamatsu Port 4,200 Ehime Pref. 50 Niihama Port 1,700 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15	Hiroshima Pref.	43	Kure Port	14,000
46 Offshore of Ube 670 47 Offshore of Hagi 240 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290 Kagawa Pref. 49 Takamatsu Port 4,200 Ehime Pref. 50 Niihama Port 1,700 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15		44	Hiroshima Bay	3,400
Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290	Yamaguchi Pref.	45		760
Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 290 Kagawa Pref. 49 Takamatsu Port 4,200 Ehime Pref. 50 Niihama Port 1,700 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15		46		670
Kagawa Pref. 49 Takamatsu Port 4,200 Ehime Pref. 50 Niihama Port 1,700 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15		47		
Ehime Pref. 50 Niihama Port 1,700 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15				
Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 160 Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15				
Kitakyushu City 52 Dokai Bay 22,000 Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15				
Fukuoka City 53 Hakata Bay 950 Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15				
Saga Pref. 54 Imari Bay 1,000 Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15			· ·	
Nagasaki Pref. 55 Omura Bay 1,100 Oita Pref. 56 Mouth of Riv. Oita (Oita City) 80 Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) 9.5 Kagoshima Pref. 58 Riv. Amori (Kirishima City) 7.7 59 Riv. Gotanda (Ichikikushikino City) 15				
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59 Riv. Gotanda (Ichikikushikino City) 15				
	23.050mmu 1 101.			
	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.

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

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	23
Median	24
Maximum	1,600
Minimum	tr(0.4)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	9.6
	2	Tomakomai Port	19
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	1.1
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	9.8
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	tr(0.7)
Akita Pref.	6	Lake Hachiro	20
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	11
Fukushima Pref.	8	Onahama Port	75
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	9.0
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	0.9
Chiba Pref.	11	Coast of Ichihara and Anegasaki	64
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	2.4
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	130
	14	Mouth of Riv. Sumida (Minato Ward)	580
Yokohama City	15	Yokohama Port	270
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	110
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	420
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	4.3
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	2.5
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	30
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	0.9
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	3.0
Nagano Pref.	23	Lake Suwa (center)	24
Shizuoka Pref.	24	Shimizu Port	33
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	1.9
Aichi Pref.	26	Kinuura Port	13
	27	Nagoya Port	91
Mie Pref.	28	Yokkaichi Port	69
	29	Toba Port	230
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	28
Ç		Lake Biwa (center, offshore of Karasaki)	78
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	34
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	170
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	260
, and the second second second second second second second second second second second second second second se		Mouth of Riv. Yodo (Osaka City)	340
		Osaka Port	1,600
	37	Outside Osaka Port	430
Hyogo Pref.	38		38
Kobe City		Kobe Port (center)	810
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	4.5
Wakayama Pref.		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	42
Okayama Pref.		Offshore of Mizushima	4.9
Hiroshima Pref.		Kure Port	160
		Hiroshima Bay	46
Yamaguchi Pref.	45	Tokuyama Bay	8.0
	46		11
	47	Offshore of Hagi	4.2
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	7.3
Kagawa Pref.	49	Takamatsu Port	140
Ehime Pref.		Niihama Port	30
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	4.3
Kitakyushu City	52	Dokai Bay	610
Fukuoka City		Hakata Bay	23
Saga Pref.	54		21
Nagasaki Pref.		Omura Bay	19
Oita Pref.		Mouth of Riv. Oita (Oita City)	2.5
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	tr(0.4)
Kagoshima Pref.		Riv. Amori (Kirishima City)	tr(0.4)
-14500111114 1 101.		Riv. Gotanda (Ichikikushikino City)	tr(0.4)
Okinawa Pref.		Naha Port	340
		(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.

⁽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: 2021

Detection Frequency (site): 53/60 (Missing value: 0) Detection Frequency (sample): 53/60 (Missing value: 0)

	Aggregated value
Geometric mean	5.5
Median	5.5
Maximum	350
Minimum	nd

Tokknide	T1	NI.	Monitored sites	A
	Local communities	No.		Aggregated value
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Myugi Pref. 4 Sendai Bay (Matsushima Bay) 3.1	Iwate Pref			
Sendar City		_		
Akita Pref. 6 Lake Hachiro 5.1	, ,			
Yamagata Pref. 7 Mouth of Riv. Mogami (Sakata City) 2.9 17		-		
Fukushima Pref. 8 Onabama Port 17 Daraki Pref. 9 Tonchigi Pref. 10 Togawa Kyuban Area Head Works (Utsunomiya City) 2.7 Tochigi Pref. 10 Tagawa Kyuban Area Head Works (Utsunomiya City) nd de Chiba Pref. 11 Coast of Ichibara and Anegassaki 20 20 Chiba City 12 Mouth of Riv. Haman (Chiba City) trt(0.7) Tokyo Met. 13 Mouth of Riv. Jaman (Chiba City) trt(0.7) Tokyo Met. 13 Mouth of Riv. Jaman (Chiba City) trt(0.7) 14 Mouth of Riv. Jaman (Minato Ward) 140 Vokohama City 15 Vokohama City 15 Vokohama City 15 Vokohama City 15 Vokohama City 15 Vokohama City 16 Mouth of Riv. Jaman (Kawasaki City) 29 7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 100 Niigata Pref. 18 Lower Riv. Shinano (Toigata City) 13 13 Toyama Pref. 19 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) trt(0.7) 15 Ishikawa Pref. 20 Mouth of Riv. Sai (Kanazawa City) 8.1 Toyama Pref. 21 Mishima bashi Bridge, Riv. Shono (Tsunga City) nd Magnop Pref. 22 Lake Suwa (center) 23 Lake Suwa (center) 6.5 Shizuoka Pref. 23 Lake Suwa (center) 6.5 Shizuoka Pref. 26 Kiniura Port 27 Nagaya Port 24 47 77 78 78 78 78 78 7		-		
Danaki Pref. 9 Tonekamome-ohasi Bridge, Mouth of Riv, Tone (Kamisu City) 2.7 Tonehig Pref. 10 Tagawa Kyubun Area Head Works (Utsunomiya City) nd nd Coast of Ichihara and Anegasaki 20 Chiba City 11 Coast of Ichihara and Anegasaki 20 Tokyo Mct. 12 Mouth of Riv. Hanami (Chiba City) trt0.77 13 Mouth of Riv. Pathawa (Koto Ward) 32 140 Mouth of Riv. Sumida (Minato Ward) 140				
Tochigi Pref. 11 Cost of Ichinar and Anegasski 20		-		
Chiba Pref. 11 Coast of Ichihana and Anegasaki 20 1 Chaist City 12 Mouth of Riv. Hanami (Chiba City) 17 Tokyo Met. 13 Mouth of Riv. Sumida (Minato Ward) 140 1	Tochigi Pref.	10		
Chiba City				
Tokyo Met.		12	Mouth of Riv. Hanami (Chiba City)	tr(0.7)
Yokohama City	Tokyo Met.			
Kawasaki City	,	14	Mouth of Riv. Sumida (Minato Ward)	140
17 Front of Ougi Town, Keihin Canal, Port of Kawasaki 100	Yokohama City	15	Yokohama Port	63
Niigata Pref. 18 Lower Riv. Shinano (Niigata City) 1.3 Toyama Pref. 19 Hagiura sabsib Bridge, Mouth of Riv. Sai (Kanazawa City) 8.1 Ishikawa Pref. 20 Mouth of Riv. Sai (Kanazawa City) 8.1 Fukui Pref. 21 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) 0.9 0.9	Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	29
Toyama Pref. 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) tr(0.7)				100
Ishikawa Pref. 20 Mouth of Riv. Sai (Kanzava City) nd	Niigata Pref.			1.3
Fukui Pref. 21 Mishima-bashi Bridge, Riv. Arakawa (Kofu City) 0.9	Toyama Pref.			tr(0.7)
Yamanashi Pref. 22 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 0.9 Nagano Pref. 24 Shimizu Port 7.7 Shizuoka Pref. 24 Shimizu Port 7.7 Aichi Pref. 26 Kinuura Port 4.7 Aichi Pref. 26 Kinuura Port 4.7 Aichi Pref. 28 Yokkaichi Port 18 29 Toba Port 29 Toba Port 27 Shiga Pref. 30 Lake Biwa (center, offshore of Minamihira) 7.1 Shiga Pref. 31 Lake Biwa (center, offshore of Minamihira) 7.1 Shiga Pref. 34 Mouth of Riv. Yamato (Sakai City) 3.5 Osaka Pref. 34 Mouth of Riv. Yamato (Sakai City) 3.5 Osaka Pref. 34 Mouth of Riv. Yamato (Sakai City) 3.5 Osaka Pref. 38 Offshore of Minemihira 3.0 Aichi Pref. 38 Offshore of Minemihira 3.0 Aichi Pref. 38 Offshore of Minemihira 3.0 Aichi Pref. 38 Offshore of Minemihira 3.0 Aichi Pref. 38 Offshore of Minemihira 3.0 Aichi Pref. 38 Offshore of Minemihira 3.0 Aichi Pref. 38 Offshore of Minemihira 3.0 Aichi Pref. 38 Offshore of Minemihira 3.0 Aichi Pref. 38 Offshore of Minemihira 3.0 Aichi Pref. 38 Offshore of Minemihira 3.0 Aichi Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town) 3.1 Aichi Pref. 40 Taisho-bashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 3.1 Aichi Pref. 42 Offshore of Mizushima 3.3 Aichi Pref. 43 Kure Port 3.7 Aichi Pref. 44 Hiroshima Bay 3.1 Aichi Pref. 45 Tokuyama Bay 3.4 Aichi Pref. 47 Offshore of Ube 3.4 Aichi Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 3.4 Aichi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 3.4 Aichi Pref. 52 Okai Bay 3.4 Aichi Pref. 53 Mouth of Riv. Shimanto (Shimanto City) 3.4 Aichi Pref. 54 Mouth of Riv. Otia (Oita City) 4.6 Aichi Pref. 55 Mouth of Riv. Otia (Oita City) 3.0 Aichi Pref. 56 Mouth of Riv. Otia (Oita City) 3.0 Aichi Pref. 57 Mouth of Riv. Otia (Oita City)	Ishikawa Pref.			8.1
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25 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) tr(0.6)		23	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
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Kyoto City 35 Miyamae-bashi Bridge,Riv. Katsura (Kyoto City) 8.7 Osaka Pref. 34 Mouth of Riv. Yamato (Sakai City) 35 Osaka City 32 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 83 36 Osaka Port 350 37 Outside Osaka Port 120 Hyogo Pref. 38 Offshore of Himeji 11 Kobe City 39 Kobe Port (center) 150 Nara Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town) 1.3 Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 10 Okayama Pref. 42 Offshore of Mizushima 1.3 Yamaguchi Pref. 43 Kure Port 37 44 Hiroshima Bay 13 Yamaguchi Pref. 45 Tokuyama Bay 1.8 45 Tokuyama Bay 1.8 46 Offshore of Ube 2.6 47 Offshore of Hagi 1.1 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) </td <td>Sniga Pref.</td> <td></td> <td>, ,</td> <td></td>	Sniga Pref.		, ,	
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Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 10 Okayama Pref. 42 Offshore of Mizushima 1.3 Hiroshima Pref. 43 Kure Port 37 44 Hiroshima Bay 13 Yamaguchi Pref. 45 Tokuyama Bay 1.8 46 Offshore of Ube 2.6 47 Offshore of Hagi 1.1 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 2.0 Kagawa Pref. 49 Takamatsu Port 34 Ehime Pref. 50 Niihama Port 1.4 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 1.2 Kitakyushu City 52 Dokai Bay 140 Fukuoka City 53 Hakata Bay 5.9 Saga Pref. 54 Imari Bay 4.5 Nagasaki Pref. 55 Omura Bay 4.6 Oita Pref. 56 Mouth of Riv. Oita (Oita City) tr(0.6) Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) nd Kagoshima Pref. 58 Riv. Amori (Kirishima City) nd 59 Riv. Gotanda (Ichikikushikino City) nd	Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	1.3
Hiroshima Pref. 43 Kure Port 37 44 Hiroshima Bay 13 Yamaguchi Pref. 45 Tokuyama Bay 1.8 46 Offshore of Ube 2.6 47 Offshore of Hagi 1.1 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 2.0 Kagawa Pref. 49 Takamatsu Port 34 Ehime Pref. 50 Niihama Port 1.4 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 1.2 Kitakyushu City 52 Dokai Bay 140 Fukuoka City 53 Hakata Bay 5.9 Saga Pref. 54 Imari Bay 4.5 Nagasaki Pref. 55 Omura Bay 4.6 Oita Pref. 56 Mouth of Riv. Oita (Oita City) tr(0.6) Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) nd Kagoshima Pref. 58 Riv. Amori (Kirishima City) nd 59 Riv. Gotanda (Ichikikushikino City) nd	Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	10
44 Hiroshima Bay 13 Yamaguchi Pref. 45 Tokuyama Bay 1.8 46 Offshore of Ube 2.6 47 Offshore of Hagi 1.1 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 2.0 Kagawa Pref. 49 Takamatsu Port 34 Ehime Pref. 50 Niihama Port 1.4 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 1.2 Kitakyushu City 52 Dokai Bay 140 Fukuoka City 53 Hakata Bay 5.9 Saga Pref. 54 Imari Bay 4.5 Nagasaki Pref. 55 Omura Bay 4.6 Oita Pref. 56 Mouth of Riv. Oita (Oita City) tr(0.6) Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) nd Kagoshima Pref. 58 Riv. Amori (Kirishima City) nd 59 Riv. Gotanda (Ichikikushikino City) nd	Okayama Pref.	42	Offshore of Mizushima	1.3
Yamaguchi Pref. 45 Tokuyama Bay 1.8 46 Offshore of Ube 2.6 47 Offshore of Hagi 1.1 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 2.0 Kagawa Pref. 49 Takamatsu Port 34 Ehime Pref. 50 Niihama Port 1.4 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 1.2 Kitakyushu City 52 Dokai Bay 140 Fukuoka City 53 Hakata Bay 5.9 Saga Pref. 54 Imari Bay 4.5 Nagasaki Pref. 55 Omura Bay 4.6 Oita Pref. 56 Mouth of Riv. Oita (Oita City) tr(0.6) Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) nd Kagoshima Pref. 58 Riv. Amori (Kirishima City) nd 59 Riv. Gotanda (Ichikikushikino City) nd	Hiroshima Pref.	43	Kure Port	37
46 Offshore of Ube 2.6 47 Offshore of Hagi 1.1 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 2.0 Kagawa Pref. 49 Takamatsu Port 34 Ehime Pref. 50 Niihama Port 1.4 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 1.2 Kitakyushu City 52 Dokai Bay 140 Fukuoka City 53 Hakata Bay 5.9 Saga Pref. 54 Imari Bay 4.5 Nagasaki Pref. 55 Omura Bay 4.6 Oita Pref. 56 Mouth of Riv. Oita (Oita City) tr(0.6) Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) nd Kagoshima Pref. 58 Riv. Amori (Kirishima City) nd 59 Riv. Gotanda (Ichikikushikino City) nd		44	Hiroshima Bay	13
Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 2.0	Yamaguchi Pref.	45		1.8
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Kagawa Pref. 49 Takamatsu Port 34 Ehime Pref. 50 Niihama Port 1.4 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 1.2 Kitakyushu City 52 Dokai Bay 140 Fukuoka City 53 Hakata Bay 5.9 Saga Pref. 54 Imari Bay 4.5 Nagasaki Pref. 55 Omura Bay 4.6 Oita Pref. 56 Mouth of Riv. Oita (Oita City) tr(0.6) Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) nd Kagoshima Pref. 58 Riv. Amori (Kirishima City) nd 59 Riv. Gotanda (Ichikikushikino City) nd				
Ehime Pref. 50 Niihama Port 1.4 Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) 1.2 Kitakyushu City 52 Dokai Bay 140 Fukuoka City 53 Hakata Bay 5.9 Saga Pref. 54 Imari Bay 4.5 Nagasaki Pref. 55 Omura Bay 4.6 Oita Pref. 56 Mouth of Riv. Oita (Oita City) tr(0.6) Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) nd Kagoshima Pref. 58 Riv. Amori (Kirishima City) nd 59 Riv. Gotanda (Ichikikushikino City) nd			` ,	
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Nagasaki Pref. 55 Omura Bay 4.6 Oita Pref. 56 Mouth of Riv. Oita (Oita City) tr(0.6) Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City) nd Kagoshima Pref. 58 Riv. Amori (Kirishima City) nd 59 Riv. Gotanda (Ichikikushikino City) nd				
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Kagoshima Pref. 58 Riv. Amori (Kirishima City) nd 59 Riv. Gotanda (Ichikikushikino City) nd				` /
59 Riv. Gotanda (Ichikikushikino City) nd				
	Okinawa Pref.	60		

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

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

Monitored year: 2021

Detection Frequency (site): 56/60 (Missing value: 0) Detection Frequency (sample): 56/60 (Missing value: 0)

	Aggregated value
Geometric mean	11
Median	12
Maximum	710
Minimum	nd

T1	NI.	Monitored sites	A
Local communities Hokkaido	No.		Aggregated value
Hokkaido	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City) Tomakomai Port	3.4 8.7
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(0.5)
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	6.5
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	tr(0.3)
Akita Pref.	6	Lake Hachiro	8.7
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	4.9
Fukushima Pref.	8	Onahama Port	33
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	4.2
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.5)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	44
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	1.0
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	58
	14	Mouth of Riv. Sumida (Minato Ward)	240
Yokohama City	15		150
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	51
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	200
Niigata Pref.		Lower Riv. Shinano (Niigata City)	1.8
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	1.2
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	13
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	1.3
Nagano Pref. Shizuoka Pref.		Lake Suwa (center)	10
Snizuoka Prei.	24	Shimizu Port Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	16
Aichi Pref.		Kinuura Port	8.8
Alcili Fiel.		Nagoya Port	55
Mie Pref.		Yokkaichi Port	33
ivile i ici.		Toba Port	150
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	12
8		Lake Biwa (center, offshore of Karasaki)	26
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	15
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	89
Osaka City	32	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	120
		Mouth of Riv. Yodo (Osaka City)	150
		Osaka Port	710
		Outside Osaka Port	190
Hyogo Pref.		Offshore of Himeji	20
Kobe City		Kobe Port (center)	480
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	1.9
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	19
Okayama Pref. Hiroshima Pref.	42		3.4
Hirosnima Prei.	43	Kure Port	110
Yamaguchi Pref.	44	Hiroshima Bay Tokuyama Bay	6.3
i amagucini Fici.	46	Offshore of Ube	6.5
	47	Offshore of Hagi	2.6
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	4.0
Kagawa Pref.	49	Takamatsu Port	59
Ehime Pref.		Niihama Port	16
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	2.1
Kitakyushu City	52	Dokai Bay	250
Fukuoka City	53	Hakata Bay	12
Saga Pref.	54		11
Nagasaki Pref.	55		11
Oita Pref.		Mouth of Riv. Oita (Oita City)	1.1
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	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 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

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

Monitored year: 2021

Detection Frequency (site): 37/60 (Missing value: 0) Detection Frequency (sample): 37/60 (Missing value: 0)

	Aggregated value
Geometric mean	0.9
Median	0.8
Maximum	32
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
	2	Tomakomai Port	0.9
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	tr(0.7)
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	3.0
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	3.3
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	3.5
	14	Mouth of Riv. Sumida (Minato Ward)	14
Yokohama City	15	Yokohama Port	15
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	1.6
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	11
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	0.8
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	1.7
Shizuoka Pref.	24	Shimizu Port	0.9
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	tr(0.7)
	27	Nagoya Port	nd
Mie Pref.	28	Yokkaichi Port	1.6
	29	Toba Port	15
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	1.7
	31	Lake Biwa (center, offshore of Karasaki)	1.7
Kyoto City	35	Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	8.9
Osaka City	32	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	3.7
	33	Mouth of Riv. Yodo (Osaka City)	2.9
	36	Osaka Port	16
	37	Outside Osaka Port	6.9
Hyogo Pref.		Offshore of Himeji	1.4
Kobe City	39	Kobe Port (center)	32
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	nd
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1.2
Okayama Pref.	42	Offshore of Mizushima	nd
Hiroshima Pref.	43	Kure Port	9.8
	44	Hiroshima Bay	2.1
Yamaguchi Pref.	45	Tokuyama Bay	0.9
	46	Offshore of Ube	tr(0.6)
	47	Offshore of Hagi	nd
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	tr(0.5)
Kagawa Pref.	49	Takamatsu Port	2.9
Ehime Pref.	50	Niihama Port	2.6
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	52	Dokai Bay	11
Fukuoka City	53	Hakata Bay	tr(0.7)
Saga Pref.	54	Imari Bay	1.2
Nagasaki Pref.	55	Omura Bay	0.8
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	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 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

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

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	350
Median	420
Maximum	51,000
Minimum	tr(1.4)

Local communities	NI.	Monitored sites	A
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value 52
Hokkaldo	2	Tomakomai Port	750
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	7.0
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	270
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	14
Akita Pref.	6	Lake Hachiro	150
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	59
Fukushima Pref.	8	Onahama Port	1,300
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	70
Tochigi Pref.	10	8 1 1	7.3
Chiba Pref.	11	Coast of Ichihara and Anegasaki	1,600
Chiba City		Mouth of Riv. Hanami (Chiba City)	20
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	1,200
W 1 1 G'		Mouth of Riv. Sumida (Minato Ward)	5,900
Yokohama City	15	Yokohama Port	7,800
Kawasaki City		Mouth of Riv. Tama (Kawasaki City) Front of Ougi Town, Keihin Canal, Port of Kawasaki	740 5,900
Niigata Pref.		Lower Riv. Shinano (Niigata City)	35
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	25
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	310
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	5.7
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	16
Nagano Pref.		Lake Suwa (center)	280
Shizuoka Pref.	24	Shimizu Port	800
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	25
Aichi Pref.	26	Kinuura Port	320
	27	Nagoya Port	1,800
Mie Pref.		Yokkaichi Port	1,300
		Toba Port	24,000
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	230
YY		Lake Biwa (center, offshore of Karasaki)	410
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	170
Osaka Pref.		Mouth of Riv. Yamato (Sakai City) Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	7,600 1,800
Osaka City		Mouth of Riv. Yodo (Osaka City)	2,600
		Osaka Port	22,000
		Outside Osaka Port	7,300
Hyogo Pref.		Offshore of Himeji	620
Kobe City		Kobe Port (center)	51,000
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	38
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	620
Okayama Pref.	42	Offshore of Mizushima	210
Hiroshima Pref.	43	Kure Port	10,000
	44	Hiroshima Bay	1,800
Yamaguchi Pref.	45	Tokuyama Bay	600
	46	Offshore of Ube	410
T 1 1: P 0	47	Offshore of Hagi	180
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	100
Kagawa Pref. Ehime Pref.	49	Takamatsu Port Niihama Port	1,300 2,300
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	87
Kitakyushu City	52	Dokai Bay	11,000
Fukuoka City	53	Hakata Bay	430
Saga Pref.	54	·	690
Nagasaki Pref.	55	†	540
Oita Pref.		Mouth of Riv. Oita (Oita City)	24
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	1.8
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	tr(1.4)
	59	Riv. Gotanda (Ichikikushikino City)	3.9
Okinawa Pref.	60	Naha Port	18,000

⁽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.

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

Monitored year: 2021

Detection Frequency (site): 58/60 (Missing value: 0)
Detection Frequency (sample): 58/60 (Missing value: 0)

	Aggregated value
Geometric mean	43
Median	50
Maximum	5,000
Minimum	nd

Local communities	Νa	Monitored sites	Aggregated value
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	7.8
Поккатао	2	Tomakomai Port	7.8
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(1.0)
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	28
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	1.5
Akita Pref.	6	Lake Hachiro	22
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	9.3
Fukushima Pref.	8	Onahama Port	140
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	9.9
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(1.2)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	160
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	3.0
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	140
,	14	Mouth of Riv. Sumida (Minato Ward)	750
Yokohama City	15	Yokohama Port	840
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	110
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	680
Niigata Pref.		Lower Riv. Shinano (Niigata City)	4.8
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	3.5
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	36
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(1.1)
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	2.7
Nagano Pref.		Lake Suwa (center)	36
Shizuoka Pref.	24		89
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	3.5
Aichi Pref.		Kinuura Port	33
M. D. C		Nagoya Port	200
Mie Pref.		Yokkaichi Port Toba Port	150 2,500
Chica Duaf	_	Lake Biwa (center, offshore of Minamihira)	33
Shiga Pref.		Lake Biwa (center, offshore of Karasaki)	65
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	29
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	710
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	260
		Mouth of Riv. Yodo (Osaka City)	350
		Osaka Port	2,500
	37	Outside Osaka Port	920
Hyogo Pref.	38	Offshore of Himeji	65
Kobe City	39	Kobe Port (center)	5,000
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	5.4
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	74
Okayama Pref.	42		17
Hiroshima Pref.	43	Kure Port	970
		Hiroshima Bay	160
Yamaguchi Pref.	45	Tokuyama Bay	51
	46	Offshore of Ube	39
T 1 1: D C	47	Offshore of Hagi	18
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	11
Kagawa Pref.	49	Takamatsu Port	180
Ehime Pref. Kochi Pref.		Niihama Port Mouth of Riv. Shimanto (Shimanto City)	270 9.7
Kitakyushu City	52	Dokai Bay	1,100
Fukuoka City	53	Hakata Bay	49
Saga Pref.	54		71
Nagasaki Pref.	55	•	54
Oita Pref.		Mouth of Riv. Oita (Oita City)	3.3
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
	59	Riv. Gotanda (Ichikikushikino City)	tr(0.6)
Okinawa Pref.	60	Naha Port	2,100

⁽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) tr: Detection limit value and more, less than Quantification limit value.

⁽Note 4) nd : Not detected

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

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	99
Median	120
Maximum	15,000
Minimum	tr(0.7)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
Hokkaldo	2	Tomakomai Port	210
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	2.4
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	70
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	3.8
Akita Pref.	6	Lake Hachiro	39
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	17
Fukushima Pref.	8	Onahama Port	380
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	19
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	2.1
Chiba Pref.	11	Coast of Ichihara and Anegasaki	420
Chiba City		Mouth of Riv. Hanami (Chiba City)	6.1
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	290
	14	Mouth of Riv. Sumida (Minato Ward)	1,700
Yokohama City	15	Yokohama Port	2,400
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	210
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,900
Niigata Pref.		Lower Riv. Shinano (Niigata City)	9.8
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	7.5
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	74
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1.9
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	4.7
Nagano Pref.		Lake Suwa (center)	76
Shizuoka Pref.		Shimizu Port	220
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	7.8
Aichi Pref.		Kinuura Port	76
20. 2. 0		Nagoya Port	510
Mie Pref.		Yokkaichi Port	380
al: P a		Toba Port	7,100
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	56
IV + C'+		Lake Biwa (center, offshore of Karasaki)	100
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	47
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	2,100
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	500 730
		Mouth of Riv. Yodo (Osaka City) Osaka Port	6,100
		Outside Osaka Port	1,900
Hyogo Pref.		Offshore of Himeji	150
Kobe City		Kobe Port (center)	15,000
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	11
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	180
Okayama Pref.	42	Offshore of Mizushima	51
Hiroshima Pref.			3,000
		Hiroshima Bay	420
Yamaguchi Pref.		Tokuyama Bay	150
<i>g</i>	46	Offshore of Ube	110
	47	Offshore of Hagi	47
Tokushima Pref.		Mouth of Riv. Yoshino (Tokushima City)	28
Kagawa Pref.	49	Takamatsu Port	370
Ehime Pref.	50	Niihama Port	760
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	27
Kitakyushu City		Dokai Bay	3,200
Fukuoka City	53	Hakata Bay	120
Saga Pref.	54	Imari Bay	200
Nagasaki Pref.		Omura Bay	130
Oita Pref.		Mouth of Riv. Oita (Oita City)	7.3
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	tr(0.9)
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	tr(0.7)
	59	Riv. Gotanda (Ichikikushikino City)	tr(1.3)
Okinawa Pref.	60	Naha Port	3,900

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

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

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

Monitored year: 2021

Detection Frequency (site): 43/60 (Missing value: 0) Detection Frequency (sample): 43/60 (Missing value: 0)

	Aggregated value
Geometric mean	3.0
Median	2.6
Maximum	180
Minimum	nd

Hokkaido	Local communities	No.	Monitored sites	Aggregated value
Ivane Pref. 3 Tovosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Miyaqi Pref. 4 Sendai Bay (Matsushima Bay) 1.5		2		2.8
Sendai City	Iwate Pref.	3		nd
Akita Pref. 6 Lake Hachiro 1.6		4	3 (3/	1.5
Yamagaba Pref. 7	Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Fukushima Pref. 9 70 75 75 75 75 75 75	Akita Pref.	6	Lake Hachiro	1.6
Tonchigi Pref. 9 Tonckamome-ohasi Bridge, Mouth of Riv. Tone (Kamisa City) nd	Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Tochipa Pref. 10 Tagawa Kyubun Area Head Works (Utsunomiya City) nd	Fukushima Pref.	8		7.5
Tochipa Pref. 10 Tagawa Kyubun Area Head Works (Utsunomiya City) nd	Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(0.9)
Chiba Pref. 11 Coast of Ichihara and Anegasaki 8.0	Tochigi Pref.	10		nd
Tokyo Met. 31 Mouth of Riv. Arakawa (Koto Ward) 4 4 4 4 4 4 4 4 4	Chiba Pref.	11	Coast of Ichihara and Anegasaki	8.0
14 Mouth of Riv. Sumida (Minato Ward)	Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Yokohama City 15 Yokohama Port 37 Kawasaki City 16 Mouth of Riv. Tama (Kawasaki City) 6.5 7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 34 Niigata Pref. 18 Lower Riv. Shinano (Niigata City) nd Toyama Pref. 19 Hagiura-bashi Bridge, Mouth of Riv. Jinisu (Toyama City) nd Ishikawa Pref. 21 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) nd Yamanashi Pref. 22 Sesshu-bashi Bridge, Riv. Arakawa (Kofu City) nd Yamanashi Pref. 22 Sesshu-bashi Bridge, Riv. Arakawa (Kofu City) nd Nagano Pref. 23 Lake Suwa (center) 4.1 Shizuoka Pref. 24 Shimizu Port 4.1 Aichi Pref. 26 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) nd Aichi Pref. 26 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) nd Mispare Pref. 28 Yokkaichi Port 9.9 Mispare Pref. 28 Yokkaichi Port 9.9 Shiga Pref. 30 Lake Biwa (c	Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	11
Yokohama City 15 Yokohama Port 37 Kawasaki City 16 Mouth of Riv. Tama (Kawasaki City) 6.5 7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 34 Niigata Pref. 18 Lower Riv. Shinano (Niigata City) nd Toyama Pref. 19 Hagiura-bashi Bridge, Mouth of Riv. Jinisu (Toyama City) nd Ishikawa Pref. 21 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) nd Yamanashi Pref. 22 Sesshu-bashi Bridge, Riv. Arakawa (Kofu City) nd Yamanashi Pref. 22 Sesshu-bashi Bridge, Riv. Arakawa (Kofu City) nd Nagano Pref. 23 Lake Suwa (center) 4.1 Shizuoka Pref. 24 Shimizu Port 4.1 Aichi Pref. 26 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) nd Aichi Pref. 26 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) nd Mispare Pref. 28 Yokkaichi Port 9.9 Mispare Pref. 28 Yokkaichi Port 9.9 Shiga Pref. 30 Lake Biwa (c	•	14	Mouth of Riv. Sumida (Minato Ward)	40
17 Front of Ougi Town, Keihin Canal, Port of Kawasaki 34	Yokohama City			37
1	Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	6.5
Niigata Pref. 18	•			34
Toyama Pref. 19	Niigata Pref.			nd
Ishikawa Pref. 20 Mouth of Riv. Sai (Kanazawa City) 2.3 Fukui Pref. 21 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) nd Yamanashi Pref. 22 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) nd Nagano Pref. 23 Lake Suwa (center) 2.5 Shizuoka Pref. 24 Shimizu Port 4.1 25 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) nd Aichi Pref. 26 Kimuura Port 1.9 27 Nagaoya Port 9.9 Mie Pref. 28 Yokakichi Port 6.9 29 Toba Port 79 Shiga Pref. 30 Lake Biwa (center, offshore of Minamihira) 3.6 31 Lake Biwa (center, offshore of Karasaki) 5.5 Kyoto City 35 Miyamae-bashi Bridge, Riv. Statura (Kyoto City) 1.6 Osaka Pref. 34 Mouth of Riv. Yamato (Sakai City) 2.3 Osaka City 32 Kema-bashi Bridge, Riv. Astura (Kyoto City) 2.3 36 Osaka Port 120				nd
Fukui Pref. 21 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) nd	,			
Yamanashi Pref. 22 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) nd Nagano Pref. 23 Lake Suwa (center) 2.5 Shizuoka Pref. 24 Shimizu Port 4.1 Aichi Pref. 26 Kinuura Port 1.9 7 Nagoya Port 9.9 Mie Pref. 28 Yokkaichi Port 6.9 29 Toba Port 79 Shiga Pref. 30 Lake Biwa (center, offshore of Minamihira) 3.6 Kyoto City 35 Miyamac-bashi Bridge, Riv. Katsura (Kyoto City) 1.6 Osaka Pref. 34 Mouth of Riv. Yamato (Sakai City) 26 Osaka Pref. 34 Mouth of Riv. Yodo (Osaka City) 16 33 Osaka Port 120 33 Osaka Port 40 4 Hyogo Pref. 38 Offshore of Himeji 4.5 Kobe City 39 Kobe Port (center) 180 Nara Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town) nd Wakayama Pref. 41 Tikin				
Nagano Pref. 23 Lake Suwa (center) 2.5				
Shizuoka Pref. 24 Shimizu Port 25 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 19 19 19 19 19 19 19 1			¥/	
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59 Riv. Gotanda (Ichikikushikino City) nd	Kagoshima Pref.			nd
	-			
	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.

⁽Note 4) nd : Not detected

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

Monitored year: 2021

Detection Frequency (site): 57/60 (Missing value: 0) Detection Frequency (sample): 57/60 (Missing value: 0)

	Aggregated value
Geometric mean	60
Median	86
Maximum	12,000
Minimum	nd

T1	NI.	Monitoned sites	A 1 1
Local communities Hokkaido		Monitored sites Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
ноккатао	2	Tomakomai Port	4.8
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(0.7)
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	58
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	1.3
Akita Pref.	6	Lake Hachiro	23
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	7.0
Fukushima Pref.	8	Onahama Port	280
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	13
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	0.8
Chiba Pref.	11	Coast of Ichihara and Anegasaki	300
Chiba City		Mouth of Riv. Hanami (Chiba City)	2.9
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	190
		Mouth of Riv. Sumida (Minato Ward)	970
Yokohama City	15		1,700
Kawasaki City	16	\	130
3.777		Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,200
Niigata Pref.		Lower Riv. Shinano (Niigata City)	4.9
Toyama Pref. Ishikawa Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	5.0
Fukui Pref.	21	Mouth of Riv. Sai (Kanazawa City) Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1.0
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	1.5
Nagano Pref.		Lake Suwa (center)	49
Shizuoka Pref.		Shimizu Port	160
Silizuoka 1 ici.		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	4.8
Aichi Pref.		Kinuura Port	65
111011111111		Nagoya Port	330
Mie Pref.	28	† · ·	300
	29	Toba Port	5,700
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	48
_	31	Lake Biwa (center, offshore of Karasaki)	59
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	15
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	1,700
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	290
	33	V 27	370
		Osaka Port	4,500
		Outside Osaka Port	1,400
Hyogo Pref.		Offshore of Himeji	120
Kobe City		Kobe Port (center)	12,000
Nara Pref. Wakayama Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	6.5
Okayama Pref.	42		49
Hiroshima Pref.		Kure Port	2,300
Tinosinna Tiei.		Hiroshima Bay	360
Yamaguchi Pref.		Tokuyama Bay	150
Tumagarin Tren	46	†	81
	47	Offshore of Hagi	49
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	18
Kagawa Pref.	49	Takamatsu Port	210
Ehime Pref.	50	Niihama Port	560
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	22
Kitakyushu City	52	Dokai Bay	2,400
Fukuoka City	53	Hakata Bay	91
Saga Pref.	54	-	150
Nagasaki Pref.	55	j.	130
Oita Pref.	56	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3.8
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	17	nd
	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	Naha Port	4,300

⁽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.

⁽Note 4) nd: Not detected

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

Monitored year: 2021

Detection Frequency (site): 48/60 (Missing value: 0) Detection Frequency (sample): 48/60 (Missing value: 0)

	Aggregated value
Geometric mean	9.1
Median	14
Maximum	750
Minimum	nd

I and annumities	Νa	Monitored sites	A composted value
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
Поккатао	2	Tomakomai Port	nd 13
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	9.5
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	6.9
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	1.7
Fukushima Pref.	8	Onahama Port	45
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	5.9
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	32
Chiba City		Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	39
		Mouth of Riv. Sumida (Minato Ward)	160
Yokohama City	15	Yokohama Port	180
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	24
N D. C		Front of Ougi Town, Keihin Canal, Port of Kawasaki	110
Niigata Pref.		Lower Riv. Shinano (Niigata City)	1.1
Toyama Pref. Ishikawa Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	3.4 6.9
Fukui Pref.	21	Mouth of Riv. Sai (Kanazawa City) Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.		Lake Suwa (center)	13
Shizuoka Pref.	24		14
Sinzuoka 1 ici.		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	7.6
111011111111		Nagoya Port	36
Mie Pref.		Yokkaichi Port	36
	29	Toba Port	420
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	15
	31	Lake Biwa (center, offshore of Karasaki)	14
Kyoto City	35	Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	2.1
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	130
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	46
		Mouth of Riv. Yodo (Osaka City)	56
		Osaka Port	640
		Outside Osaka Port	150
Hyogo Pref.		Offshore of Himeji	17
Kobe City		Kobe Port (center)	750
Nara Pref. Wakayama Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(0.7)
Okayama Pref.	42		5.3
Hiroshima Pref.	43	Kure Port	250
Tili Osinina Tiei.		Hiroshima Bay	38
Yamaguchi Pref.	45	Tokuyama Bay	15
Tuningueni TTen	46	Offshore of Ube	9.0
	47	Offshore of Hagi	5.1
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	4.2
Kagawa Pref.	49	Takamatsu Port	33
Ehime Pref.	50	Niihama Port	43
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	2.7
Kitakyushu City	52	Dokai Bay	260
Fukuoka City	53	Hakata Bay	11
Saga Pref.	54	· · · · · · · · · · · · · · · · · · ·	14
Nagasaki Pref.	55	,	34
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd 1
Oleiner B. C	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	Naha Port	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.

⁽Note 4) nd: Not detected

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

Monitored year: 2021

Detection Frequency (site): 50/60 (Missing value: 0)
Detection Frequency (sample): 50/60 (Missing value: 0)

	Aggregated value
Geometric mean	7.2
Median	10
Maximum	2,200
Minimum	nd

T1	NI.	Monitored sites	A
Local communities	No.		Aggregated value
Hokkaido	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City) Tomakomai Port	1.0
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	23
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	11
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	3.2
Fukushima Pref.	8	Onahama Port	310
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	9.5
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	46
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	62
	14	Mouth of Riv. Sumida (Minato Ward)	230
Yokohama City	15	Yokohama Port	890
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	11
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	120
Niigata Pref.		Lower Riv. Shinano (Niigata City)	1.7
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	6.9
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	5.1
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(0.5)
Nagano Pref.		Lake Suwa (center)	9.4
Shizuoka Pref.	24		11
4:1:D C		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port Nagoya Port	3.5
Mie Pref.		Yokkaichi Port	13
MIC FICE.		Toba Port	22
Shiga Pref.	_	Lake Biwa (center, offshore of Minamihira)	16
Singa i ici.		Lake Biwa (center, offshore of Karasaki)	9.9
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	1.9
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	65
Osaka City	32	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	30
	33	Mouth of Riv. Yodo (Osaka City)	33
		Osaka Port	260
		Outside Osaka Port	75
Hyogo Pref.		Offshore of Himeji	11
Kobe City		Kobe Port (center)	110
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	0.9
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	13
Okayama Pref. Hiroshima Pref.	42		3.5
Hirosnima Prei.		Kure Port Hiroshima Bay	19
Yamaguchi Pref.	45	Tokuyama Bay	14
i amagucin i ici.	46	Offshore of Ube	8.4
	47	Offshore of Hagi	2.0
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	4.5
Kagawa Pref.	49	Takamatsu Port	32
Ehime Pref.	50	Niihama Port	62
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	1.7
Kitakyushu City	52	Dokai Bay	2,200
Fukuoka City	53	Hakata Bay	6.4
Saga Pref.	54	-	5.6
Nagasaki Pref.	55		39
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd 1
Olsings Df	59	Riv. Gotanda (Ichikikushikino City)	nd 120
Okinawa Pref.	60	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 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

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

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

Detection limit : 0.5 Quantification limit : 1.3

	Aggregated value
Geometric mean	56
Median	56
Maximum	12,000
Minimum	2.5

I and anomymiting	No	Monitored sites	A composted value
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
покканао	2	Tomakomai Port	63
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	10
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	320
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	7.6
Akita Pref.	6	Lake Hachiro	49
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	64
Fukushima Pref.	8	Onahama Port	12,000
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	290
Tochigi Pref.	10		4.4
Chiba Pref.	11	Coast of Ichihara and Anegasaki	140
Chiba City		Mouth of Riv. Hanami (Chiba City)	6.2
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	790
1011,0111011	_	Mouth of Riv. Sumida (Minato Ward)	550
Yokohama City		Yokohama Port	890
Kawasaki City	_	Mouth of Riv. Tama (Kawasaki City)	140
12am abani ony	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	480
Niigata Pref.		Lower Riv. Shinano (Niigata City)	77
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	23
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	62
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	7.0
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	21
Nagano Pref.		Lake Suwa (center)	240
Shizuoka Pref.		Shimizu Port	58
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	25
Aichi Pref.		Kinuura Port	22
		Nagoya Port	47
Mie Pref.		Yokkaichi Port	87
	29	Toba Port	55
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	25
	31	Lake Biwa (center, offshore of Karasaki)	24
Kyoto City	35	Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	35
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	220
Osaka City	32	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	130
	33	Mouth of Riv. Yodo (Osaka City)	180
	36	Osaka Port	880
	37	Outside Osaka Port	130
Hyogo Pref.	38	Offshore of Himeji	30
Kobe City	39	Kobe Port (center)	59
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	7.0
Wakayama Pref.		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	86
Okayama Pref.		Offshore of Mizushima	15
Hiroshima Pref.		Kure Port	66
	44	Hiroshima Bay	20
Yamaguchi Pref.	45	Tokuyama Bay	67
		Offshore of Ube	27
	47	8	7.2
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	100
Kagawa Pref.	49	Takamatsu Port	95
Ehime Pref.	50	Niihama Port	130
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	48
Kitakyushu City	52	Dokai Bay	5,300
Fukuoka City	53	Hakata Bay	20
Saga Pref.	54	Imari Bay	38
Nagasaki Pref.	55		19
Oita Pref.		Mouth of Riv. Oita (Oita City)	13
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	6.3
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	3.3
OI: P.C		Riv. Gotanda (Ichikikushikino City)	2.5
Okinawa Pref.	60	Naha Port	40

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

[6-1] p,p'-DDT/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0)
Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	110
Median	100
Maximum	17,000
Minimum	3.8

Local communities	No	Monitored sites	Aggregated value
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	720
Hokkaido	2	Tomakomai Port	74
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	78
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	63
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	11
Akita Pref.	6	Lake Hachiro	38
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	110
Fukushima Pref.	8	Onahama Port	1,700
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	73
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	13
Chiba Pref.	11	Coast of Ichihara and Anegasaki	120
Chiba City		Mouth of Riv. Hanami (Chiba City)	6.9
Tokyo Met.	_	Mouth of Riv. Arakawa (Koto Ward)	230
		Mouth of Riv. Sumida (Minato Ward)	550
Yokohama City	15	Yokohama Port	670
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	540
N D. C		Front of Ougi Town, Keihin Canal, Port of Kawasaki	150
Niigata Pref.		Lower Riv. Shinano (Niigata City)	220
Toyama Pref. Ishikawa Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	22 120
Fukui Pref.	20	Mouth of Riv. Sai (Kanazawa City) Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	18
Nagano Pref.		Lake Suwa (center)	550
Shizuoka Pref.	24		260
Silizuoka 1 ici.		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	50
Aichi Pref.		Kinuura Port	54
111011111111		Nagoya Port	110
Mie Pref.		Yokkaichi Port	67
		Toba Port	17,000
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	57
	31	Lake Biwa (center, offshore of Karasaki)	28
Kyoto City	35	Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	120
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	280
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	760
		Mouth of Riv. Yodo (Osaka City)	520
		Osaka Port	380
		Outside Osaka Port	640
Hyogo Pref.		Offshore of Himeji	67
Kobe City		Kobe Port (center)	800
Nara Pref. Wakayama Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	38 140
Okayama Pref.	42		34
Hiroshima Pref.	43	Kure Port	700
THI OSIMINA TICI.		Hiroshima Bay	190
Yamaguchi Pref.	45	Tokuyama Bay	130
rumagaem rren	46	Offshore of Ube	21
	47	Offshore of Hagi	37
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	31
Kagawa Pref.	49	Takamatsu Port	170
Ehime Pref.	50	Niihama Port	3.8
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	28
Kitakyushu City	52	Dokai Bay	610
Fukuoka City	53	Hakata Bay	110
Saga Pref.	54	· · · · · · · · · · · · · · · · · · ·	100
Nagasaki Pref.	55	,	72
Oita Pref.		Mouth of Riv. Oita (Oita City)	4.8
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	25
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	8.1
01: 7.6	59	Riv. Gotanda (Ichikikushikino City)	16
Okinawa Pref.	60	Naha Port	7,900

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

[6-2] p,p'-DDE/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	350
Median	360
Maximum	25,000
Minimum	8.7

Local communities	No	Monitored sites	A composted value
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value 1,000
Поккатао	2	Tomakomai Port	130
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	66
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	180
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	8.7
Akita Pref.	6	Lake Hachiro	290
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	360
Fukushima Pref.	8	Onahama Port	1,600
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	260
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	15
Chiba Pref.	11	Coast of Ichihara and Anegasaki	1,100
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	120
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	2,700
·	14	Mouth of Riv. Sumida (Minato Ward)	25,000
Yokohama City	15	Yokohama Port	2,400
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	740
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,600
Niigata Pref.		Lower Riv. Shinano (Niigata City)	590
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	73
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	350
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	31
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	56
Nagano Pref.		Lake Suwa (center)	2,300
Shizuoka Pref.	24		750
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	53
Aichi Pref.		Kinuura Port	300
) (i D 0		Nagoya Port	530
Mie Pref.		Yokkaichi Port	320
CI: D C		Toba Port	1,900
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	430
Kyoto City		Lake Biwa (center, offshore of Karasaki) Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	230 270
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	1,400
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,500
Osuku City		Mouth of Riv. Yodo (Osaka City)	2,500
		Osaka Port	5,200
		Outside Osaka Port	970
Hyogo Pref.		Offshore of Himeji	290
Kobe City		Kobe Port (center)	1,200
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	52
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1,600
Okayama Pref.	42		77
Hiroshima Pref.	43	Kure Port	1,100
	44	Hiroshima Bay	740
Yamaguchi Pref.	45	Tokuyama Bay	110
	46	Offshore of Ube	220
	47	Offshore of Hagi	140
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	160
Kagawa Pref.	49	Takamatsu Port	2,100
Ehime Pref.		Niihama Port	27
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	170
Kitakyushu City	52	Dokai Bay	2,300
Fukuoka City	53	Hakata Bay	930
Saga Pref.	54	· · · · · · · · · · · · · · · · · · ·	660
Nagasaki Pref.	55	,	660
Oita Pref.		Mouth of Riv. Oita (Oita City) Mouth of Riv. Oyodo (Miyazaki City)	18 47
Miyazaki Pref. Kagoshima Pref.		Riv. Amori (Kirishima City)	10
Kagosiiiiia Pref.	58 59	Riv. Amori (Kırısınma City) Riv. Gotanda (Ichikikushikino City)	18
Okinawa Pref.	60	Naha Port	6,600
Okinawa 1 ICI.	00	1141114 1 011	0,000

⁽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.

[6-3] p,p'-DDD/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	210
Median	240
Maximum	8,600
Minimum	1.9

I and annumities	Ma	Monitored sites	A composted value
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value 970
покканао	2	Tomakomai Port	260
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	17
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	110
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	8.8
Akita Pref.	6	Lake Hachiro	230
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	280
Fukushima Pref.	8	Onahama Port	3,600
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	150
Tochigi Pref.	10		8.3
Chiba Pref.	11	Coast of Ichihara and Anegasaki	400
Chiba City		Mouth of Riv. Hanami (Chiba City)	42
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	720
1011,0111011	_	Mouth of Riv. Sumida (Minato Ward)	2,700
Yokohama City		Yokohama Port	1,600
Kawasaki City	_	Mouth of Riv. Tama (Kawasaki City)	740
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,200
Niigata Pref.		Lower Riv. Shinano (Niigata City)	420
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	51
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	280
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	16
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	22
Nagano Pref.	23	Lake Suwa (center)	1,100
Shizuoka Pref.		Shimizu Port	650
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	29
Aichi Pref.		Kinuura Port	77
	27	Nagoya Port	200
Mie Pref.		Yokkaichi Port	200
	29	Toba Port	8,600
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	150
	31	Lake Biwa (center, offshore of Karasaki)	57
Kyoto City	35	Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	160
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	780
Osaka City	32	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	720
	33	Mouth of Riv. Yodo (Osaka City)	1,100
	36	Osaka Port	1,500
	37	Outside Osaka Port	1,200
Hyogo Pref.		Offshore of Himeji	180
Kobe City		Kobe Port (center)	2,400
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	27
Wakayama Pref.		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	500
Okayama Pref.		Offshore of Mizushima	44
Hiroshima Pref.		Kure Port	710
		Hiroshima Bay	310
Yamaguchi Pref.	45	Tokuyama Bay	78
		Offshore of Ube	210
T 1 1: 7 2	47	8	100
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	98
Kagawa Pref.	49	Takamatsu Port	1,100
Ehime Pref.	50	Niihama Port	12
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	96
Kitakyushu City	52	Dokai Bay	3,600
Fukuoka City	53	Hakata Bay	980
Saga Pref.	54	Imari Bay	760
Nagasaki Pref.	55		430 8.9
Oita Pref.		Mouth of Riv. Oita (Oita City)	
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	17
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	1.9
Okinawa Pref.		Riv. Gotanda (Ichikikushikino City) Naha Port	
Okiliawa Piel.	UU	Ivalia 1 Oit	4,300

⁽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.

[6-4] o,p'-DDT/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 58/60 (Missing value: 0)
Detection Frequency (sample): 58/60 (Missing value: 0)

	Aggregated value
Geometric mean	19
Median	20
Maximum	3,200
Minimum	nd

Local communities	NI.	Monitored sites	A
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value 120
Поккатао	2	Tomakomai Port	22
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	8.2
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	15
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	0.9
Akita Pref.	6	Lake Hachiro	13
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	18
Fukushima Pref.	8	Onahama Port	1,000
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	11
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	1.7
Chiba Pref.	11	Coast of Ichihara and Anegasaki	30
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	1.1
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	44
	14	Mouth of Riv. Sumida (Minato Ward)	130
Yokohama City	15	Yokohama Port	130
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	280
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	47
Niigata Pref.		Lower Riv. Shinano (Niigata City)	32
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	3.1
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	7.8
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	2.9
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	3.2
Nagano Pref.		Lake Suwa (center)	110
Shizuoka Pref.	24		62
1:1:D 0		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	8.2
Aichi Pref.		Kinuura Port Nagoya Port	8.9
Mie Pref.		Yokkaichi Port	26 15
Mile Prei.		Toba Port	3,200
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	21
Siliga I ICI.		Lake Biwa (center, offshore of Karasaki)	7.7
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	17
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	61
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	140
		Mouth of Riv. Yodo (Osaka City)	150
	36	Osaka Port	140
	37	Outside Osaka Port	180
Hyogo Pref.	38	Offshore of Himeji	17
Kobe City	39	Kobe Port (center)	230
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	5.6
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	26
Okayama Pref.	42		7.5
Hiroshima Pref.	43	Kure Port	150
		Hiroshima Bay	43
Yamaguchi Pref.	45	Tokuyama Bay	31
	46	Offshore of Ube	5.0
T-ll-i Df	47	Offshore of Hagi	5.1
Tokushima Pref. Kagawa Pref.	48	Mouth of Riv. Yoshino (Tokushima City) Takamatsu Port	6.6
Ehime Pref.	_	Niihama Port	0.5
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	52	Dokai Bay	170
Fukuoka City	53	Hakata Bay	25
Saga Pref.	54		25
Nagasaki Pref.	55		18
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	3.3
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	1.1
	59	Riv. Gotanda (Ichikikushikino City)	0.9
Okinawa Pref.	60	Naha Port	920

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

[6-5] o,p'-DDE/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 59/60 (Missing value: 0)
Detection Frequency (sample): 59/60 (Missing value: 0)

	Aggregated value
Geometric mean	19
Median	14
Maximum	16,000
Minimum	nd

Holkando	Local communities	No	Monitored sites	A composted value
Watte Pref. 3 Toysosawa bashi Bridge, Riv. Toysosawa (Hanamaki City) 1.3		No.		Aggregated value
Wate Pref. 3 Toyosawa-hashi Bridge, Riv. Toyosawa (Hanamaki City) 1.3 Sendai City 5 Hrose-chashi Bridge, Riv. Hirose (Sendai City) 1.1	Hokkaido			
Myagi Pref. 4 Sendai Bay (Matsushima Bay) 5.8	Iwate Pref			
Sendai City		_		
Akita Perf. 6 Lake Hachiro 11 13 14 14 15 15 15 15 15 15				
Fukushima Pref. 8 Onahama Port 270 15 16 17 16 17 17 17 17 17		6		
Fonkis Pref. 9 Toneksamome-ohasi Bridge, Mouth of Riv, Tone (Kamisu City) 0.6	Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	13
Tochigi Pref. 10 Tagawa Kuyuhun Area Head Works (Usunomiya City) 0.6	Fukushima Pref.	8	Onahama Port	270
Chiba Pref. 11 Coss of Ichibara and Anegasski 220 Chiba City 12 Mouth of Riv. Hanami (Chiba City) 13 Tokyo Met. 13 Mouth of Riv. Varkawa (Koto Ward) 830 16,000 16,000 16,000 16,000 16,000 17 Front of Ougi Town, Kelin Canal, Port of Kawasaki City 15 Yokohama Port 460		9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	6.6
Chiba City				
Tokyo Met.				
14 Mouth of Riv. Sumida (Minato Ward) 16,000				
Vokohama City	Tokyo Met.	_	/	
Kawasaki City	V 1 1 G'			
17 Front of Ougi Town, Keihin Canal, Port of Kawasaki 300				
Niigata Pref. 18 Lower Riv. Shinano (Niigata City) 15 Toyama Pref. 20 Mouth of Riv. Sai (Kanazawa City) 11 Hagiura-bashi Bridge, Riv. Shono (Tsuruga City) 11 17 18 18 18 18 18 18	Kawasaki City			
Toyama Pref. 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 1.1	Niigata Prof			
Ishikawa Pref. 20 Mouth of Riv. Sai (Kanzawa City) 1.1				
Fukui Pref. 21 Mishima-bashi Bridge, Riv. Arakawa (Kofu City) 2.2				
Yamanashi Pref. 22 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 72				
Nagano Pref. 23 Lake Suwa (center) 72				
Shizuoka Pref. 24 Shimizu Port 25 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 1.3 1.4 1.5 1				
Aichi Pref. 26 Kinuura Port 49 49 49 49 49 49 49 4				
Aichi Pref. 26 Kinuura Port 49 49 49 49 49 49 49 4		25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	1.3
Mie Pref. 28 Yokkaichi Port 29 Toba Port 66	Aichi Pref.			12
29 Toba Port 66		27	Nagoya Port	49
Shiga Pref. 30 Lake Biwa (center, offshore of Minamihira) 15 31 Lake Biwa (center, offshore of Karasaki) 8.8.8	Mie Pref.	28	Yokkaichi Port	14
Systo City 35 Miyamac-bashi Bridge,Riv. Katsura (Kyoto City) 11				66
Kyoto City 35 Miyamae-bashi Bridge,Riv. Katsura (Kyoto City) 11 Osaka Pref. 34 Mouth of Riv. Yamato (Sakai City) 110 Osaka City 32 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 120 36 Osaka Port 540 37 Outside Osaka Port 110 Hyogo Pref. 38 Offshore of Himeji 16 Kobe City 39 Kobe Port (center) 110 Nara Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town) 4.6 Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 810 Okayama Pref. 42 Offshore of Mizushima 3.4 Hiroshima Pref. 43 Kure Port 51 4 Hiroshima Bay 31 Yamaguchi Pref. 45 Tokuyama Bay 6.4 4 Offshore of Ube 12 47 Offshore of Hagi 4.4 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 7.2 Kagawa Pref. 49 <td>Shiga Pref.</td> <td></td> <td>, ,</td> <td></td>	Shiga Pref.		, ,	
Osaka Pref. 34 Mouth of Riv. Yamato (Sakai City) 110 Osaka City 32 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 62 33 Mouth of Riv. Yodo (Osaka City) 120 36 Osaka Port 540 37 Outside Osaka Port 110 Hyogo Pref. 38 Offshore of Himeji 16 Kobe City 39 Kobe Port (center) 110 Nara Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town) 4.6 Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 810 Okayama Pref. 42 Offshore of Mizushima 3.4 Hiroshima Pref. 43 Kure Port 51 Yamaguchi Pref. 45 Tokuyama Bay 6.4 Yamaguchi Pref. 45 Tokuyama Bay 6.4 Yoffshore of Hagi 4.4 4.4 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 7.2 Kagawa Pref. 49 Takamatsu Port 98 Ehime Pref.<				
Osaka City 32 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) 62 33 Mouth of Riv. Yodo (Osaka City) 120 36 Osaka Port 540 37 Outside Osaka Port 110 Hyogo Pref. 38 Offshore of Himeji 16 Kobe City 39 Kobe Port (center) 1110 Nara Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town) 4.6 Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City) 810 Okayama Pref. 42 Offshore of Mizushima 3.4 Hiroshima Pref. 43 Kure Port 51 44 Hiroshima Bay 31 Yamaguchi Pref. 45 Tokuyama Bay 6.4 40 Offshore of Ube 12 47 Offshore of Hagi 4.4 Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City) 7.2 Kagawa Pref. 49 Takamatsu Port 98 Ehime Pref. 50 Niihama Port 1.1 </td <td></td> <td></td> <td></td> <td></td>				
33 Mouth of Riv. Yodo (Osaka City) 36 Osaka Port 540 37 Outside Osaka Port 110 Hyogo Pref. 38 Offshore of Himeji 16 16 10 Kobe City 39 Kobe Port (center) 110				
36 Osaka Port 37 Outside Osaka Port 110	Osaka City			
37 Outside Osaka Port 110				
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59 Riv. Gotanda (Ichikikushikino City) tr(0.4)				
	110500000000000000000000000000000000000			
	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.

⁽Note 4) nd: Not detected

[6-6] o,p'-DDD/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	64
Median	66
Maximum	2,500
Minimum	0.4

Local communities	NI.	Monitored sites	Aggregated value
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	250
Hokkaldo	2	Tomakomai Port	110
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	3.4
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	28
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	2.5
Akita Pref.	6	Lake Hachiro	58
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	55
Fukushima Pref.	8	Onahama Port	1,800
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	38
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	2.7
Chiba Pref.	11	Coast of Ichihara and Anegasaki	150
Chiba City		Mouth of Riv. Hanami (Chiba City)	6.6
Tokyo Met.	_	Mouth of Riv. Arakawa (Koto Ward)	230
W 1 1 G':		Mouth of Riv. Sumida (Minato Ward)	2,000
Yokohama City	15	Yokohama Port	1,300
Kawasaki City		Mouth of Riv. Tama (Kawasaki City) Front of Ougi Town, Keihin Canal, Port of Kawasaki	310 1,000
Niigata Pref.		Lower Riv. Shinano (Niigata City)	90
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	11
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	64
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	4.1
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	5.1
Nagano Pref.		Lake Suwa (center)	210
Shizuoka Pref.	24		190
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	6.1
Aichi Pref.	26	Kinuura Port	20
	27	Nagoya Port	52
Mie Pref.		Yokkaichi Port	59
		Toba Port	2,500
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	38
		Lake Biwa (center, offshore of Karasaki)	16
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	86
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	600
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City) Mouth of Riv. Yodo (Osaka City)	360 700
		Osaka Port	640
		Outside Osaka Port	390
Hyogo Pref.		Offshore of Himeji	54
Kobe City		Kobe Port (center)	660
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	23
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	650
Okayama Pref.	42		11
Hiroshima Pref.	43	Kure Port	180
	44	Hiroshima Bay	82
Yamaguchi Pref.	45	Tokuyama Bay	24
	46	Offshore of Ube	69
	47	Offshore of Hagi	24
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	32
Kagawa Pref.	49	Takamatsu Port	490
Ehime Pref.		Niihama Port	3.0
Kochi Pref. Kitakyushu City	51 52	Mouth of Riv. Shimanto (Shimanto City) Dokai Bay	23 1,200
Fukuoka City	53	Hakata Bay	220
Saga Pref.	54		190
Nagasaki Pref.	55	•	98
Oita Pref.		Mouth of Riv. Oita (Oita City)	2.0
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	4.1
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	0.4
	59	Riv. Gotanda (Ichikikushikino City)	0.9
Okinawa Pref.	60	Naha Port	980

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

[15] Perfluorooctane sulfonic acid (PFOS)/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	52
Median	62
Maximum	620
Minimum	tr(5)

Local communities	No	Monitored sites	A composted violate
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
Поккатао	2	Tomakomai Port	96
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	8
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	74
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	33
Akita Pref.	6	Lake Hachiro	59
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	28
Fukushima Pref.	8	Onahama Port	21
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	79
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	38
Chiba Pref.	11	Coast of Ichihara and Anegasaki	260
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	11
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	200
	14	Mouth of Riv. Sumida (Minato Ward)	620
Yokohama City	15	Yokohama Port	180
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	74
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	120
Niigata Pref.		Lower Riv. Shinano (Niigata City)	28
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	10
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	26
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	7
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	22
Nagano Pref.	23	Lake Suwa (center)	95
Shizuoka Pref.	24		11
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	29
Aichi Pref.		Kinuura Port	100
		Nagoya Port	70
Mie Pref.		Yokkaichi Port	56
		Toba Port	62
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	200
		Lake Biwa (center, offshore of Karasaki)	340
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	63
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	360
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	260
		Mouth of Riv. Yodo (Osaka City)	240
		Osaka Port Outside Osaka Port	120 89
II Du-f			
Hyogo Pref. Kobe City		Offshore of Himeji Kobe Port (center)	130 130
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	31
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	18
Okayama Pref.	42		42
Hiroshima Pref.	43	Kure Port	130
Tili Osinina Tiei.		Hiroshima Bay	83
Yamaguchi Pref.	45	Tokuyama Bay	150
ramagaem riei.	46	Offshore of Ube	27
	47	Offshore of Hagi	13
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	34
Kagawa Pref.	49	Takamatsu Port	63
Ehime Pref.	50	Niihama Port	10
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	11
Kitakyushu City	52	Dokai Bay	130
Fukuoka City	53	Hakata Bay	83
Saga Pref.	54	·	24
Nagasaki Pref.	55		200
Oita Pref.		Mouth of Riv. Oita (Oita City)	tr(5)
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	21
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	8
	59	Riv. Gotanda (Ichikikushikino City)	25
Okinawa Pref.	60	Naha Port	140

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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)/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 58/60 (Missing value: 0)
Detection Frequency (sample): 58/60 (Missing value: 0)

Detection limit: 4 Quantification limit: 9

	Aggregated value
Geometric mean	24
Median	26
Maximum	260
Minimum	nd

T 1	3.7	V 5 15	T
Local communities		Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	12
T . D C	2	Tomakomai Port	18
Iwate Pref. Miyagi Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	10
, ,		Sendai Bay (Matsushima Bay) Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	41
Sendai City Akita Pref.	5 6	Lake Hachiro	19 35
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	
Fukushima Pref.	8	Onahama Port	tr(6)
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	25
Tochigi Pref.	10		10
Chiba Pref.	11	Coast of Ichihara and Anegasaki	53
Chiba City	12		tr(6)
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	40
Toky o Micu	_	Mouth of Riv. Sumida (Minato Ward)	44
Yokohama City		Yokohama Port	29
Kawasaki City	-	Mouth of Riv. Tama (Kawasaki City)	16
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	57
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	9
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(8)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	62
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(7)
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	9
Nagano Pref.	23	Lake Suwa (center)	25
Shizuoka Pref.	24	Shimizu Port	19
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	17
Aichi Pref.	26	Kinuura Port	30
	27	Nagoya Port	17
Mie Pref.		Yokkaichi Port	14
	29		45
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	75
		Lake Biwa (center, offshore of Karasaki)	110
Kyoto City	35		31
Osaka Pref.		()	69
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	120
		Mouth of Riv. Yodo (Osaka City)	78
		Osaka Port	260
II Du-f		Outside Osaka Port Offshore of Himeji	90
Hyogo Pref. Kobe City	38	Kobe Port (center)	59 110
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	24
Wakayama Pref.		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	9
Okayama Pref.		Offshore of Mizushima	26
Hiroshima Pref.		Kure Port	14
THI OSIMINA T TOT.		Hiroshima Bay	23
Yamaguchi Pref.	45	Tokuyama Bay	31
		Offshore of Ube	10
	47		43
Tokushima Pref.	48		27
Kagawa Pref.	49	Takamatsu Port	27
Ehime Pref.	50	Niihama Port	tr(6)
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	12
Kitakyushu City	52	Dokai Bay	41
Fukuoka City	53	ý .	47
Saga Pref.	54	Imari Bay	65
Nagasaki Pref.	55		110
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	34
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
01: 7.0		Riv. Gotanda (Ichikikushikino City)	tr(5)
Okinawa Pref.	60	Naha Port	16

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

[17] Pentachlorobenzene/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0)
Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	28
Median	32
Maximum	2,300
Minimum	tr(0.8)

Local communities No. Monitored sites Hokkaido 1 Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City) 2 Tomakomai Port Iwate Pref. 3 Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City) Miyagi Pref. 4 Sendai Bay (Matsushima Bay) Sendai City 5 Hirose-ohashi Bridge, Riv. Hirose (Sendai City) Akita Pref. 6 Lake Hachiro	Aggregated value 49 44 5.8 53
2 Tomakomai Port Iwate Pref. 3 Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City) Miyagi Pref. 4 Sendai Bay (Matsushima Bay) Sendai City 5 Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	5.8 53 1.1
Iwate Pref. 3 Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City) Miyagi Pref. 4 Sendai Bay (Matsushima Bay) Sendai City 5 Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	5.8 53 1.1
Miyagi Pref. 4 Sendai Bay (Matsushima Bay) Sendai City 5 Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	53 1.1
Sendai City 5 Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	1.1
	22
AKIGITOL U LAKEHAUMU	23
Yamagata Pref. 7 Mouth of Riv. Mogami (Sakata City)	42
Fukushima Pref. 8 Onahama Port	2,300
Ibaraki Pref. 9 Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	200
Tochigi Pref. 10 Tagawa Kyubun Area Head Works (Utsunomiya City)	2.2
Chiba Pref. 11 Coast of Ichihara and Anegasaki	65
Chiba City 12 Mouth of Riv. Hanami (Chiba City)	3.0
Tokyo Met. 13 Mouth of Riv. Arakawa (Koto Ward)	490
14 Mouth of Riv. Sumida (Minato Ward)	330
Yokohama City 15 Yokohama Port	92
Kawasaki City 16 Mouth of Riv. Tama (Kawasaki City) 17 Front of Ougi Town, Keihin Canal, Port of Kawasaki	54 260
Niigata Pref. 18 Lower Riv. Shinano (Niigata City)	77
Toyama Pref. 19 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	16
Ishikawa Pref. 20 Mouth of Riv. Sai (Kanazawa City)	45
Fukui Pref. 21 Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	6.3
Yamanashi Pref. 22 Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	12
Nagano Pref. 23 Lake Suwa (center)	180
Shizuoka Pref. 24 Shimizu Port	21
25 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	16
Aichi Pref. 26 Kinuura Port	11
27 Nagoya Port	36
Mie Pref. 28 Yokkaichi Port	39
29 Toba Port	72
Shiga Pref. 30 Lake Biwa (center, offshore of Minamihira)	14
31 Lake Biwa (center, offshore of Karasaki)	53
Kyoto City 35 Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	31
Osaka Pref. 34 Mouth of Riv. Yamato (Sakai City)	120
Osaka City 32 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	93
33 Mouth of Riv. Yodo (Osaka City) 36 Osaka Port	170 350
37 Outside Osaka Port	62
Hyogo Pref. 38 Offshore of Himeji	20
Kobe City 39 Kobe Port (center)	37
Nara Pref. 40 Taisho-bashi Bridge, Riv. Yamato (Oji Town)	2.4
Wakayama Pref. 41 Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	34
Okayama Pref. 42 Offshore of Mizushima	7.2
Hiroshima Pref. 43 Kure Port	27
44 Hiroshima Bay	12
Yamaguchi Pref. 45 Tokuyama Bay	28
46 Offshore of Ube	9.6
47 Offshore of Hagi	2.7
Tokushima Pref. 48 Mouth of Riv. Yoshino (Tokushima City)	38
Kagawa Pref. 49 Takamatsu Port	54
Ehime Pref. 50 Niihama Port	26
Kochi Pref. 51 Mouth of Riv. Shimanto (Shimanto City) Kitakyushu City 52 Dokai Bay	27 1,600
Kitakyushu City 52 Dokai Bay Fukuoka City 53 Hakata Bay	1,600
Saga Pref. 54 Imari Bay	17
Nagasaki Pref. 55 Omura Bay	13
Oita Pref. 56 Mouth of Riv. Oita (Oita City)	4.2
Miyazaki Pref. 57 Mouth of Riv. Oyodo (Miyazaki City)	4.5
Kagoshima Pref. 58 Riv. Amori (Kirishima City)	tr(0.8)
59 Riv. Gotanda (Ichikikushikino City)	tr(0.8)
Okinawa Pref. 60 Naha Port	36

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

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

[18] Endosulfans/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 33/60 (Missing value: 0) Detection Frequency (sample): 33/60 (Missing value: 0)

Detection limit: *1.5 Quantification limit: *3.6

	Aggregated value
Geometric mean	tr(2.1)
Median	tr(1.8)
Maximum	110
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	22
	2	Tomakomai Port	nd
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	nd
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	5.0
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	12
Fukushima Pref.	8	Onahama Port	tr(2.0)
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	13
Tochigi Pref.	10		nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	tr(2.2)
Chiba City		Mouth of Riv. Hanami (Chiba City)	4.2
		Mouth of Riv. Arakawa (Koto Ward)	25
Tokyo Met.		Mouth of Riv. Sumida (Minato Ward)	7.3
V 1 1 C'r			
Yokohama City		Yokohama Port	tr(1.7)
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	tr(1.6)
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.		Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(1.6)
Nagano Pref.	23	Lake Suwa (center)	nd
Shizuoka Pref.	24	Shimizu Port	nd
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	23
1110111 11011		Nagoya Port	tr(1.9)
Mie Pref.	28	Yokkaichi Port	tr(2.0)
when then.	29	Toba Port	tr(3.3)
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	tr(2.8)
Siliga Piel.		Lake Biwa (center, offshore of Karasaki)	` '
W + C'+			nd
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	nd
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	110
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	tr(2.2)
		Mouth of Riv. Yodo (Osaka City)	15
		Osaka Port	tr(2.9)
		Outside Osaka Port	nd
Hyogo Pref.		Offshore of Himeji	nd
Kobe City		Kobe Port (center)	nd
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	6.4
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	5.0
Okayama Pref.	42	Offshore of Mizushima	tr(3.4)
Hiroshima Pref.		Kure Port	nd
	44	Hiroshima Bay	nd
Yamaguchi Pref.	45	Tokuyama Bay	nd
_	46		nd
		Offshore of Hagi	4.1
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	tr(3.0)
Kagawa Pref.	49	Takamatsu Port	12
Ehime Pref.	_	Niihama Port	4.7
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	52	Dokai Bay	tr(2.3)
Fukuoka City		Hakata Bay	4.6
Saga Pref.		Imari Bay	
			nd
Nagasaki Pref.		Omura Bay	nd
Oita Pref.		Mouth of Riv. Oita (Oita City)	tr(1.8)
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
	59	Riv. Gotanda (Ichikikushikino City)	4.3
Okinawa Pref.	60	Naha Port	tr(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 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 target chemicals.

[18-1] α -Endosulfan/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 50/60 (Missing value: 0)
Detection Frequency (sample): 50/60 (Missing value: 0)

	Aggregated value
Geometric mean	1.7
Median	1.8
Maximum	53
Minimum	nd

Local communities	No	Monitored sites	A compacted value
	No.		Aggregated value
Hokkaido	2	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City) Tomakomai Port	9.0 tr(0.9)
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	tr(1.3)
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	2.4
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	3.8
Fukushima Pref.	8	Onahama Port	2.0
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	4.2
Tochigi Pref.	_	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.7)
Chiba Pref.		Coast of Ichihara and Anegasaki	2.2
Chiba City		Mouth of Riv. Hanami (Chiba City)	2.0
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	7.4
Tokyo Men		Mouth of Riv. Sumida (Minato Ward)	7.3
Yokohama City		Yokohama Port	1.7
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	1.6
Trawasaki City		Front of Ougi Town, Keihin Canal, Port of Kawasaki	1.4
Niigata Pref.		Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	1.6
Nagano Pref.		Lake Suwa (center)	tr(1.3)
Shizuoka Pref.		Shimizu Port	tr(0.6)
Simparia 11011		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(0.9)
Aichi Pref.		Kinuura Port	20
	27	Nagoya Port	1.9
Mie Pref.		Yokkaichi Port	2.0
	29	Toba Port	3.3
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	2.8
8		Lake Biwa (center, offshore of Karasaki)	tr(1.0)
Kyoto City	35	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	53
Osaka City	32	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	2.2
		Mouth of Riv. Yodo (Osaka City)	11
	36	Osaka Port	2.9
	37	Outside Osaka Port	tr(0.9)
Hyogo Pref.	38	Offshore of Himeji	tr(1.0)
Kobe City	39	Kobe Port (center)	nd
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	3.3
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	5.0
Okayama Pref.	42	Offshore of Mizushima	3.4
Hiroshima Pref.	43	Kure Port	tr(1.1)
	44	Hiroshima Bay	tr(1.0)
Yamaguchi Pref.	45	Tokuyama Bay	tr(0.7)
	46		tr(1.1)
	47	8	4.1
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	3.0
Kagawa Pref.	49	Takamatsu Port	6.2
Ehime Pref.		Niihama Port	4.7
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	1.4
Kitakyushu City	52	Dokai Bay	2.3
Fukuoka City	53	Hakata Bay	4.6
Saga Pref.	54	Imari Bay	1.4
Nagasaki Pref.	55		tr(1.2)
Oita Pref.		Mouth of Riv. Oita (Oita City)	1.8
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.		Riv. Amori (Kirishima City)	nd
		Riv. Gotanda (Ichikikushikino City)	4.3
Okinawa Pref.	60	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 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

[18-2] β -Endosulfan/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 12/60 (Missing value: 0) Detection Frequency (sample): 12/60 (Missing value: 0)

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	57
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	13
Hokkaldo	2	Tomakomai Port	nd
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	nd
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	2.6
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	8.1
Fukushima Pref.	8	Onahama Port	nd
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	9.2
Tochigi Pref.	10	` ;/	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	nd
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	2.2
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	18
	14	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	15	Yokohama Port	nd
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	nd
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(1.0)
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.		Lake Suwa (center)	nd
Shizuoka Pref.		Shimizu Port	nd
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	2.5
		Nagoya Port	nd
Mie Pref.		Yokkaichi Port	nd
		Toba Port	nd
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	nd
77		Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	35	Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	nd
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	57
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	nd
		Mouth of Riv. Yodo (Osaka City) Osaka Port	4.0
		Osaka Port Outside Osaka Port	nd
Hyogo Pref.		Offshore of Himeji	nd nd
Kobe City		Kobe Port (center)	nd
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	3.1
Wakayama Pref.		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	42	Offshore of Mizushima	nd
Hiroshima Pref.		Kure Port	nd
1111 0011111111111111111111111111111111		Hiroshima Bay	nd
Yamaguchi Pref.	45	Tokuyama Bay	nd
		Offshore of Ube	nd
	47	Offshore of Hagi	nd
Tokushima Pref.	48		nd
Kagawa Pref.	49	Takamatsu Port	5.3
Ehime Pref.	50	Niihama Port	nd
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	52	Dokai Bay	nd
Fukuoka City	53	Hakata Bay	nd
Saga Pref.	54		nd
Nagasaki Pref.		Omura Bay	nd
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
		Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.		Naha Port (site) is based on the number of sites, thus means (the number of detected sites/the number of survival.)	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

[20] Total Polyhlorinated naphthalenes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 59/60 (Missing value: 0) Detection Frequency (sample): 59/60 (Missing value: 0)

	Aggregated value
Geometric mean	400
Median	440
Maximum	14,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	170
	2	Tomakomai Port	190
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	210
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	300
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	63
Akita Pref.	6	Lake Hachiro	300
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	290
Fukushima Pref.	8	Onahama Port	2,500
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	700
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	87
Chiba Pref.	11	Coast of Ichihara and Anegasaki	1,300
Chiba City		Mouth of Riv. Hanami (Chiba City)	48
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	2,900
		Mouth of Riv. Sumida (Minato Ward)	14,000
Yokohama City	15	Yokohama Port	14,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	3,200
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	8,300
Niigata Pref.		Lower Riv. Shinano (Niigata City)	510
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	480
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	860
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	20
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	200
Nagano Pref.	23	Lake Suwa (center)	1,300
Shizuoka Pref.	24	Shimizu Port	330
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	62
Aichi Pref.		Kinuura Port	180
	27	Nagoya Port	480
Mie Pref.	28	Yokkaichi Port	570
	29	Toba Port	1,200
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	200
8		Lake Biwa (center, offshore of Karasaki)	410
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	1,300
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	2,100
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	2,500
•		Mouth of Riv. Yodo (Osaka City)	3,100
		Osaka Port	7,300
		Outside Osaka Port	1,700
Hyogo Pref.		Offshore of Himeji	300
Kobe City		Kobe Port (center)	3,200
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	72
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	620
Okayama Pref.	42	Offshore of Mizushima	68
Hiroshima Pref.		Kure Port	1,700
111100111111111111111111111111111111111		Hiroshima Bay	470
Yamaguchi Pref.	45	Tokuyama Bay	120
ramagaem riei.	46	Offshore of Ube	290
		Offshore of Hagi	35
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	200
Kagawa Pref.	49	Takamatsu Port	1,800
Ehime Pref.		Niihama Port	35
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	130
Kitakyushu City	52	Dokai Bay	6,900
Fukuoka City	53	Hakata Bay	510
Saga Pref.		Imari Bay	600
Magagal-: Df		Omura Bay	310
Nagasaki Pref.	55	Manda af Dire Oita (Oita Cita)	22
Oita Pref.	56	Mouth of Riv. Oita (Oita City)	22
Oita Pref. Miyazaki Pref.	56 57	Mouth of Riv. Oyodo (Miyazaki City)	13
Oita Pref.	56 57 58	Mouth of Riv. Oyodo (Miyazaki City) Riv. Amori (Kirishima City)	13 nd
Oita Pref. Miyazaki Pref.	56 57 58	Mouth of Riv. Oyodo (Miyazaki City)	13

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

[20-1] Monochlorinated naphthalenes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

Detection limit: 1 Quantification limit: 3

	Aggregated value
Geometric mean	24
Median	19
Maximum	850
Minimum	tr(1)

Lacal communities	No	Monitored sites	A composted value
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value 27
Поккатао	2	Tomakomai Port	28
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	3
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	10
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	tr(2)
Akita Pref.	6	Lake Hachiro	11
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	6
Fukushima Pref.	8	Onahama Port	94
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	12
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	3
Chiba Pref.		Coast of Ichihara and Anegasaki	70
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	8
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	170
	14	Mouth of Riv. Sumida (Minato Ward)	630
Yokohama City	15	Yokohama Port	850
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	160
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	450
Niigata Pref.		Lower Riv. Shinano (Niigata City)	13
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	7
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	55
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	3
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	18
Nagano Pref.		Lake Suwa (center)	38
Shizuoka Pref.	24		19
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	5
Aichi Pref.		Kinuura Port	12
) (; P 0		Nagoya Port	61
Mie Pref.		Yokkaichi Port	49
CI: D C		Toba Port	75
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	8
Vyvoto City		Lake Biwa (center, offshore of Karasaki) Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	22
Kyoto City Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	120
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	230
Osaka City		Mouth of Riv. Yodo (Osaka City)	170
		Osaka Port	820
		Outside Osaka Port	260
Hyogo Pref.		Offshore of Himeji	18
Kobe City		Kobe Port (center)	55
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	3
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	20
Okayama Pref.	42	Offshore of Mizushima	10
Hiroshima Pref.	43	Kure Port	44
	44	Hiroshima Bay	18
Yamaguchi Pref.	45	Tokuyama Bay	16
	46	Offshore of Ube	11
	47	Offshore of Hagi	4
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	19
Kagawa Pref.	49	Takamatsu Port	140
Ehime Pref.		Niihama Port	4
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	16
Kitakyushu City	52	Dokai Bay	290
Fukuoka City	53	Hakata Bay	14
Saga Pref.	54	,	19
Nagasaki Pref.	55	, , , , , , , , , , , , , , , , , , ,	19
Oita Pref.		Mouth of Riv. Orado (Mineralii City)	tr(2)
Miyazaki Pref. Kagoshima Pref.		Mouth of Riv. Oyodo (Miyazaki City) Riv. Amori (Kirishima City)	3
Kagosiiiiia Pref.	58 59	Riv. Amori (Kirisnima City) Riv. Gotanda (Ichikikushikino City)	tr(1) tr(2)
Okinawa Pref.	60	Naha Port	130
Okinawa 1101.	00	1141114 1 011	130

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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 naphthalenes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 59/60 (Missing value: 0) Detection Frequency (sample): 59/60 (Missing value: 0)

	Aggregated value
Geometric mean	29
Median	29
Maximum	3,700
Minimum	nd

Iwate Pref. Miyagi Pref. Sendai City Akita Pref. Yamagata Pref. Fukushima Pref. Ibaraki Pref. Chiba Pref. Tochigi Pref. 1 Chiba City Tokyo Met. 1 Yokohama City I Kawasaki City I Niigata Pref. 1 Ishikawa Pref. 1 Ishikawa Pref. 2 Yamanashi Pref. 2 Xamanashi Pref. 3	1 Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City) 2 Tomakomai Port 3 Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City) 4 Sendai Bay (Matsushima Bay) 5 Hirose-ohashi Bridge, Riv. Hirose (Sendai City) 6 Lake Hachiro 7 Mouth of Riv. Mogami (Sakata City) 8 Onahama Port 9 Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City) 1 Tagawa Kyubun Area Head Works (Utsunomiya City) 1 Coast of Ichihara and Anegasaki 2 Mouth of Riv. Hanami (Chiba City) 3 Mouth of Riv. Arakawa (Koto Ward) 4 Mouth of Riv. Sumida (Minato Ward) 5 Yokohama Port 6 Mouth of Riv. Tama (Kawasaki City) 7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 8 Lower Riv. Shinano (Niigata City) 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 10 Mouth of Riv. Sai (Kanazawa City) 11 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) 12 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 13 Lake Suwa (center) 14 Shimizu Port 15 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 16 Kinuura Port 17 Nagoya Port 18 Yokkaichi Port 19 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Minamihira) 12 Lake Biwa (center, offshore of Karasaki)	14 29 16 17 tr(0.5) 24 7.9 150 29 3.1 180 5.4 360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140 13
Iwate Pref. Miyagi Pref. Sendai City Akita Pref. Yamagata Pref. Fukushima Pref. Ibaraki Pref. Chiba Pref. Tochigi Pref. 1 Chiba City Tokyo Met. 1 Yokohama City I Kawasaki City I Niigata Pref. 1 Ishikawa Pref. 1 Ishikawa Pref. 2 Yamanashi Pref. 2 Xamanashi Pref. 3	Toyosawa-bashi Bridge, 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) Front of Ougi Town, 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 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kinuura Port Nagoya Port Yokakichi Port Toba Port Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	16 17 tr(0.5) 24 7.9 150 29 3.1 180 5.4 360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Miyagi Pref. 2 Sendai City 3 Akita Pref. 6 Yamagata Pref. 7 Fukushima Pref. 9 Ibaraki Pref. 1 Chiba Pref. 1 Chiba City 1 Tokyo Met. 1 Yokohama City 1 Kawasaki City 1 Injurate Pref. 1 Ishikawa Pref. 1 Ishikawa Pref. 2 Yamanashi Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	4 Sendai Bay (Matsushima Bay) 5 Hirose-ohashi Bridge, Riv. Hirose (Sendai City) 6 Lake Hachiro 7 Mouth of Riv. Mogami (Sakata City) 8 Onahama Port 9 Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City) 0 Tagawa Kyubun Area Head Works (Utsunomiya City) 1 Coast of Ichihara and Anegasaki 2 Mouth of Riv. Hanami (Chiba City) 3 Mouth of Riv. Arakawa (Koto Ward) 4 Mouth of Riv. Sumida (Minato Ward) 5 Yokohama Port 6 Mouth of Riv. Tama (Kawasaki City) 7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 8 Lower Riv. Shinano (Niigata City) 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 10 Mouth of Riv. Sai (Kanazawa City) 11 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) 12 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 13 Lake Suwa (center) 14 Shimizu Port 15 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 16 Kinuura Port 17 Nagoya Port 18 Yokkaichi Port 19 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	17 tr(0.5) 24 7.9 150 29 3.1 180 5.4 360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Sendai City Akita Pref. Yamagata Pref. Fukushima Pref. Sibaraki Pref. Tochigi Pref. Chiba Pref. 1 Chiba City Tokyo Met. 1 Yokohama City I Kawasaki City I Niigata Pref. 1 Ishikawa Pref. 1 Ishikawa Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Aichi Pref. 2 Aichi Pref. 2 Shizuoka Pref. 2 Shiga Pref. 3 Kyoto City Osaka Pref. 3 Kyoto City Osaka Pref. 3 Osaka City 3	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) Front of Ougi Town, 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. Arakawa (Kofu City) Lake Suwa (center) Shimizu Port Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Nagoya Port Yokaichi Port Toba Port Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	tr(0.5) 24 7.9 150 29 3.1 180 5.4 360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140 13
Akita Pref. Yamagata Pref. Fukushima Pref. Ibaraki Pref. Tochigi Pref. Chiba Pref. 1 Chiba City Tokyo Met. 1 Yokohama City I Niigata Pref. Ishikawa Pref. Ishikawa Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Aichi Pref. 2 Aichi Pref. 2 Shizuoka Pref. 2 Shiga Pref. 3 Kyoto City Osaka Pref. 3 Osaka City 3	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) Front of Ougi Town, 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) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Nagoya Port Nagoya Port Nagoya Port Nagoya Port Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	24 7.9 150 29 3.1 180 5.4 360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140 13
Yamagata Pref. Fukushima Pref. Ibaraki Pref. Tochigi Pref. Chiba Pref. 1 Chiba City Tokyo Met. 1 Yokohama City I Niigata Pref. Ishikawa Pref. 1 Ishikawa Pref. 2 Yamanashi Pref. 2 Xamanashi Pref. 2 Aichi Pref. 2 Aichi Pref. 2 Shizuoka Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	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) Front of Ougi Town, 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) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Yokaichi Port Yokaichi Port Toba Port Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	7.9 150 29 3.1 180 5.4 360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Fukushima Pref. Ibaraki Pref. Ibaraki Pref. Tochigi Pref. Chiba Pref. Chiba City Tokyo Met. I Yokohama City I Niigata Pref. Ishikawa Pref. Ishikawa Pref. Yamanashi Pref. 2 Yamanashi Pref. 2 Aichi Pref. 2 Aichi Pref. 2 Aichi Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Aichi Pref. 2 Xingano Pref. 3 Xingano Pref. Xingan	8 Onahama Port 9 Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City) 1 Tagawa Kyubun Area Head Works (Utsunomiya City) 1 Coast of Ichihara and Anegasaki 2 Mouth of Riv. Hanami (Chiba City) 3 Mouth of Riv. Arakawa (Koto Ward) 4 Mouth of Riv. Sumida (Minato Ward) 5 Yokohama Port 6 Mouth of Riv. Tama (Kawasaki City) 7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 8 Lower Riv. Shinano (Niigata City) 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 10 Mouth of Riv. Sai (Kanazawa City) 11 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) 12 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 13 Lake Suwa (center) 14 Shimizu Port 15 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 16 Kinuura Port 17 Nagoya Port 18 Yokkaichi Port 19 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	150 29 3.1 180 5.4 360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Ibaraki Pref. 9 Tochigi Pref. 1 Chiba Pref. 1 Chiba City 1 Tokyo Met. 1 Yokohama City 1 Kawasaki City 1 Niigata Pref. 1 Toyama Pref. 2 Fukui Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 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. Arakawa (Koto Ward) Mouth of Riv. Sumida (Minato Ward) Yokohama Port Mouth of Riv. Tama (Kawasaki City) Front of Ougi Town, 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 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kinuura Port Nagoya Port Yokaichi Port Toba Port Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	29 3.1 180 5.4 360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Tochigi Pref. 1 Chiba Pref. 1 Chiba Pref. 1 Tokyo Met. 1 Yokohama City 1 Kawasaki City 1 Niigata Pref. 1 Toyama Pref. 2 Fukui Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	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) Front of Ougi Town, 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) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kinuura Port Nagoya Port Yokaichi Port Toba Port Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	3.1 180 5.4 360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Chiba Pref. 1 Chiba City 1 Tokyo Met. 1 1 1 Yokohama City 1 Kawasaki City 1 Niigata Pref. 1 Toyama Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	1 Coast of Ichihara and Anegasaki 2 Mouth of Riv. Hanami (Chiba City) 3 Mouth of Riv. Arakawa (Koto Ward) 4 Mouth of Riv. Sumida (Minato Ward) 5 Yokohama Port 6 Mouth of Riv. Tama (Kawasaki City) 7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 8 Lower Riv. Shinano (Niigata City) 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 10 Mouth of Riv. Sai (Kanazawa City) 11 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) 12 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 13 Lake Suwa (center) 14 Shimizu Port 15 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 16 Kinuura Port 17 Nagoya Port 18 Yokkaichi Port 19 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	180 5.4 360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140 13
Chiba City 1 Tokyo Met. 1 Yokohama City 1 Kawasaki City 1 Niigata Pref. 1 Ishikawa Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 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) Front of Ougi Town, 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) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kinuura Port Nagoya Port Yokaichi Port Toba Port Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	5.4 360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Tokyo Met. 1 1 1 Yokohama City 1 Kawasaki City 1 Niigata Pref. 1 Toyama Pref. 1 Ishikawa Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	Mouth of Riv. Arakawa (Koto Ward) Mouth of Riv. Sumida (Minato Ward) Yokohama Port Mouth of Riv. Tama (Kawasaki City) Front of Ougi Town, 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) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	360 1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140 13
Yokohama City	4 Mouth of Riv. Sumida (Minato Ward) 5 Yokohama Port 6 Mouth of Riv. Tama (Kawasaki City) 7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 8 Lower Riv. Shinano (Niigata City) 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 10 Mouth of Riv. Sai (Kanazawa City) 11 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) 12 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 13 Lake Suwa (center) 14 Shimizu Port 15 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 16 Kinuura Port 17 Nagoya Port 18 Yokkaichi Port 19 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	1,800 3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Yokohama City 1 Kawasaki City 1 Niigata Pref. 1 Toyama Pref. 1 Ishikawa Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	5 Yokohama Port 6 Mouth of Riv. Tama (Kawasaki City) 7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 8 Lower Riv. Shinano (Niigata City) 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 10 Mouth of Riv. Sai (Kanazawa City) 11 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) 12 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 13 Lake Suwa (center) 14 Shimizu Port 15 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 16 Kinuura Port 17 Nagoya Port 18 Yokkaichi Port 19 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	3,700 570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Kawasaki City 1 Niigata Pref. 1 Toyama Pref. 1 Ishikawa Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	6 Mouth of Riv. Tama (Kawasaki City) 7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 8 Lower Riv. Shinano (Niigata City) 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 10 Mouth of Riv. Sai (Kanazawa City) 11 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) 12 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 13 Lake Suwa (center) 14 Shimizu Port 15 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 16 Kinuura Port 17 Nagoya Port 18 Yokkaichi Port 19 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	570 1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
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 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 8 Lower Riv. Shinano (Niigata City) 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 10 Mouth of Riv. Sai (Kanazawa City) 11 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) 12 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 13 Lake Suwa (center) 14 Shimizu Port 15 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 16 Kinuura Port 17 Nagoya Port 18 Yokkaichi Port 19 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	1,700 31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Niigata Pref. 1 Toyama Pref. 1 Ishikawa Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	7 Front of Ougi Town, Keihin Canal, Port of Kawasaki 8 Lower Riv. Shinano (Niigata City) 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 10 Mouth of Riv. Sai (Kanazawa City) 11 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) 12 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 13 Lake Suwa (center) 14 Shimizu Port 15 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 16 Kinuura Port 17 Nagoya Port 18 Yokkaichi Port 19 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	31 5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Toyama Pref.	8 Lower Riv. Shinano (Niigata City) 9 Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City) 10 Mouth of Riv. Sai (Kanazawa City) 11 Mishima-bashi Bridge, Riv. Shono (Tsuruga City) 12 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 13 Lake Suwa (center) 14 Shimizu Port 15 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 16 Kinuura Port 17 Nagoya Port 18 Yokkaichi Port 19 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	5.5 68 0.7 4.3 100 20 9.6 17 50 43 140
Toyama Pref.	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 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kinuura Port Nagoya Port Yokkaichi Port Toba Port Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	68 0.7 4.3 100 20 9.6 17 50 43 140
Ishikawa Pref. 2 Fukui Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	Mouth of Riv. Sai (Kanazawa City) Mishima-bashi Bridge, Riv. Shono (Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa (Kofu City) Lake Suwa (center) Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kinuura Port Nagoya Port Yokkaichi Port Toba Port Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	68 0.7 4.3 100 20 9.6 17 50 43 140
Fukui Pref. 2 Yamanashi Pref. 2 Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	Mishima-bashi Bridge, Riv. Shono (Tsuruga City) Senshu-bashi Bridge, Riv. Arakawa (Kofu City) Lake Suwa (center) Shimizu Port Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kinuura Port Nagoya Port Yokkaichi Port Toba Port Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	4.3 100 20 9.6 17 50 43 140
Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	22 Senshu-bashi Bridge, Riv. Arakawa (Kofu City) 23 Lake Suwa (center) 24 Shimizu Port 25 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 26 Kinuura Port 27 Nagoya Port 28 Yokkaichi Port 29 Toba Port 20 Lake Biwa (center, offshore of Minamihira) 21 Lake Biwa (center, offshore of Karasaki)	100 20 9.6 17 50 43 140
Nagano Pref. 2 Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	Lake Suwa (center) 4 Shimizu Port 5 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 6 Kinuura Port 7 Nagoya Port 8 Yokkaichi Port 9 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	100 20 9.6 17 50 43 140
Shizuoka Pref. 2 Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	44 Shimizu Port 55 Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) 66 Kinuura Port 67 Nagoya Port 68 Yokkaichi Port 69 Toba Port 60 Lake Biwa (center, offshore of Minamihira) 61 Lake Biwa (center, offshore of Karasaki)	20 9.6 17 50 43 140 13
Aichi Pref. 2 2 2 2 2 2 2 2 2 2 2 2 3 3 4	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City) Kinuura Port Nagoya Port Vokkaichi Port Toba Port Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	9.6 17 50 43 140
Aichi Pref. 2 Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	66 Kinuura Port 77 Nagoya Port 88 Yokkaichi Port 99 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	17 50 43 140 13
Mie Pref. 2 Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	7. Nagoya Port 18. Yokkaichi Port 19. Toba Port 10. Lake Biwa (center, offshore of Minamihira) 11. Lake Biwa (center, offshore of Karasaki)	50 43 140 13
Mie Pref. 2 Shiga Pref. 3 Skyoto City 3 Osaka Pref. 3 Osaka City 3	28 Yokkaichi Port 29 Toba Port 20 Lake Biwa (center, offshore of Minamihira) 21 Lake Biwa (center, offshore of Karasaki)	43 140 13
2 Shiga Pref. 3 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	9 Toba Port 10 Lake Biwa (center, offshore of Minamihira) 11 Lake Biwa (center, offshore of Karasaki)	140 13
Shiga Pref. 3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	Lake Biwa (center, offshore of Minamihira) Lake Biwa (center, offshore of Karasaki)	13
3 Kyoto City 3 Osaka Pref. 3 Osaka City 3	Lake Biwa (center, offshore of Karasaki)	
Kyoto City 3 Osaka Pref. 3 Osaka City 3		32
Osaka Pref. 3 Osaka City 3	Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	120
Osaka City 3	4 Mouth of Riv. Yamato (Sakai City)	100
	12 Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	190
	Mouth of Riv. Yodo (Osaka City)	220
	6 Osaka Port	840
	7 Outside Osaka Port	
	·	170
	8 Offshore of Himeji	29
	9 Kobe Port (center)	190
	0 Taisho-bashi Bridge, Riv. Yamato (Oji Town)	1.4
,	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	39
,	2 Offshore of Mizushima	7.2
<u></u>	3 Kure Port	120
	4 Hiroshima Bay	34
0	5 Tokuyama Bay	17
<u> </u>	6 Offshore of Ube	16
	7 Offshore of Hagi	2.9
	8 Mouth of Riv. Yoshino (Tokushima City)	18
	9 Takamatsu Port	130
	Niihama Port	3.6
	Mouth of Riv. Shimanto (Shimanto City)	11
, ,	Dokai Bay	410
,	Hakata Bay	25
Saga Pref. 5	4 Imari Bay	34
	5 Omura Bay	34
	Mouth of Riv. Oita (Oita City)	1.5
	7 Mouth of Riv. Oyodo (Miyazaki City)	1.1
•	8 Riv. Amori (Kirishima City)	nd
	9 Riv. Gotanda (Ichikikushikino City)	0.9
Okinawa Pref. 6		220

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

[20-3] Trichlorinated naphthalenes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 59/60 (Missing value: 0) Detection Frequency (sample): 59/60 (Missing value: 0)

	Aggregated value
Geometric mean	63
Median	66
Maximum	3,100
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	31
	2	Tomakomai Port	32
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	78
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	60
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	6.4
Akita Pref.	6	Lake Hachiro	65
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	48
Fukushima Pref.	8	Onahama Port	520
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	88
Tochigi Pref.		Tagawa Kyubun Area Head Works (Utsunomiya City)	20
Chiba Pref.		Coast of Ichihara and Anegasaki	260
Chiba City		Mouth of Riv. Hanami (Chiba City)	4.7
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	450
		Mouth of Riv. Sumida (Minato Ward)	2,900
Yokohama City		Yokohama Port	3,100
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	670
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	2,300
Niigata Pref.		Lower Riv. Shinano (Niigata City)	75
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	21
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	190
Fukui Pref.		Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	2.0
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	17
Nagano Pref.	23	Lake Suwa (center)	240
Shizuoka Pref.	24	Shimizu Port	47
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	11
Aichi Pref.	26	Kinuura Port	34
	27	Nagoya Port	83
Mie Pref.	28	Yokkaichi Port	60
	29	Toba Port	300
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	29
8		Lake Biwa (center, offshore of Karasaki)	59
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	310
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	260
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	320
Ĭ		Mouth of Riv. Yodo (Osaka City)	390
		Osaka Port	1,600
		Outside Osaka Port	290
Hyogo Pref.		Offshore of Himeji	49
Kobe City		Kobe Port (center)	620
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	6.8
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	83
Okayama Pref.	42	Offshore of Mizushima	9.8
Hiroshima Pref.		Kure Port	330
		Hiroshima Bay	91
Yamaguchi Pref.	45	Tokuyama Bay	20
r amagacini r rer.	46	Offshore of Ube	51
ŀ		Offshore of Hagi	5.9
Tokushima Pref.		Mouth of Riv. Yoshino (Tokushima City)	26
Kagawa Pref.	49	Takamatsu Port	290
Ehime Pref.		Niihama Port	3.1
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	20
Kochi Pref. Kitakyushu City	51	\	
, ,		Dokai Bay	1,100
Fukuoka City		Hakata Bay	85
Saga Pref.		Imari Bay	110
Nagasaki Pref.		Omura Bay	66
Oita Pref.		Mouth of Riv. Oita (Oita City)	2.8
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	tr(1.2)
Kagoshima Pref.		Riv. Amori (Kirishima City)	nd
	59	Riv. Gotanda (Ichikikushikino City)	tr(0.9)
Okinawa Pref.	60	Naha Port	310

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

[20-4] Tetrachlorinated naphthalenes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	140
Median	130
Maximum	4,900
Minimum	1.1

Local communities	Νa	Monitored sites	A composted value
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value 66
Поккатао	2	Tomakomai Port	53
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	97
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	93
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	33
Akita Pref.	6	Lake Hachiro	99
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	140
Fukushima Pref.	8	Onahama Port	780
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	200
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	42
Chiba Pref.	11	Coast of Ichihara and Anegasaki	410
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	16
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	930
,	14	Mouth of Riv. Sumida (Minato Ward)	4,900
Yokohama City	15	Yokohama Port	2,600
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	1,000
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,900
Niigata Pref.		Lower Riv. Shinano (Niigata City)	120
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	41
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	340
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	9.6
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	78
Nagano Pref.		Lake Suwa (center)	520
Shizuoka Pref.	24		130
1:1:D 0		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	26
Aichi Pref.		Kinuura Port	67
Mie Pref.		Nagoya Port Yokkaichi Port	160
Mile Prei.		Toba Port	130 440
Shiga Pref.	_	Lake Biwa (center, offshore of Minamihira)	71
Siliga I ICI.		Lake Biwa (center, offshore of Karasaki)	150
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	560
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	900
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	920
		Mouth of Riv. Yodo (Osaka City)	1,300
	36	Osaka Port	2,300
	37	Outside Osaka Port	540
Hyogo Pref.	38	Offshore of Himeji	110
Kobe City	39	Kobe Port (center)	1,300
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	32
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	260
Okayama Pref.	42		22
Hiroshima Pref.	43	Kure Port	670
		Hiroshima Bay	180
Yamaguchi Pref.	45	Tokuyama Bay	28
	46	Offshore of Ube	130
T-1	47	Offshore of Hagi	14
Tokushima Pref. Kagawa Pref.	48	Mouth of Riv. Yoshino (Tokushima City) Takamatsu Port	77
Ehime Pref.	-	Niihama Port	9.7
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	48
Kitakyushu City	52	Dokai Bay	2,100
Fukuoka City	53	Hakata Bay	220
Saga Pref.	54	•	250
Nagasaki Pref.	55		120
Oita Pref.	56	Mouth of Riv. Oita (Oita City)	10
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	5.1
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	1.1
	59	Riv. Gotanda (Ichikikushikino City)	3.3
Okinawa Pref.	60	Naha Port	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.

[20-5] Pentachlorinated naphthalenes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 60/60 (Missing value: 0)

	Aggregated value
Geometric mean	87
Median	92
Maximum	3,000
Minimum	0.8

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
Hokkaldo	2	Tomakomai Port	29
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	16
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	82
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	20
Akita Pref.	6	Lake Hachiro	76
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	79
Fukushima Pref.	8	Onahama Port	640
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	180
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	18
Chiba Pref.	11	Coast of Ichihara and Anegasaki	260
Chiba City		Mouth of Riv. Hanami (Chiba City)	12
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	620
	14	Mouth of Riv. Sumida (Minato Ward)	3,000
Yokohama City	15	Yokohama Port	1,900
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	600
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,000
Niigata Pref.		Lower Riv. Shinano (Niigata City)	160
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	29
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	170
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	4.7
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	72
Nagano Pref.	23	Lake Suwa (center)	310
Shizuoka Pref.		Shimizu Port	89
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	10
Aichi Pref.		Kinuura Port	37
		Nagoya Port	94
Mie Pref.		Yokkaichi Port	120
	29	Toba Port	170
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	54
		Lake Biwa (center, offshore of Karasaki)	100
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	200
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	590
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	680
		Mouth of Riv. Yodo (Osaka City)	810
		Osaka Port	1,200
		Outside Osaka Port	320
Hyogo Pref.		Offshore of Himeji	70
Kobe City		Kobe Port (center)	660
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	25
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	170
Okayama Pref. Hiroshima Pref.	42	Offshore of Mizushima Kure Port	14
nirosnima Prei.	43		370
Vome anal: Df		Hiroshima Bay Takuwama Pay	110
Yamaguchi Pref.	45	Tokuyama Bay Offshore of Ube	22 62
	47	Offshore of Hagi	8.1
Tokushima Pref.		Mouth of Riv. Yoshino (Tokushima City)	46
Kagawa Pref.	49	Takamatsu Port	470
Ehime Pref.		Niihama Port	6.2
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	26
Kitakyushu City	52	Dokai Bay	1,700
Fukuoka City	53	Hakata Bay	130
Saga Pref.		Imari Bay	150
Nagasaki Pref.	55	Omura Bay	54
Oita Pref.		Mouth of Riv. Oita (Oita City)	5.4
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	2.9
Kagoshima Pref.		Riv. Amori (Kirishima City)	0.8
-20000000000000000000000000000000000000	59	Riv. Gotanda (Ichikikushikino City)	2.5
Okinawa Pref.		Naha Port	530
		1	550

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

[20-6] Hexachlorinated naphthalenes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 53/60 (Missing value: 0) Detection Frequency (sample): 53/60 (Missing value: 0)

	Aggregated value
Geometric mean	19
Median	28
Maximum	1,200
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	3.6
	2	Tomakomai Port	7.3
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	33
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	1.5
Akita Pref.	6	Lake Hachiro	15
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	10
Fukushima Pref.	8	Onahama Port	200
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	130
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	1.3
Chiba Pref.	11	Coast of Ichihara and Anegasaki	100
Chiba City		Mouth of Riv. Hanami (Chiba City)	1.9
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	270
•	14	Mouth of Riv. Sumida (Minato Ward)	720
Yokohama City		Yokohama Port	1,200
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	160
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	740
Niigata Pref.		Lower Riv. Shinano (Niigata City)	96
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	48
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	29
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	10
Nagano Pref.	23	Lake Suwa (center)	62
Shizuoka Pref.	24	Shimizu Port	20
Sinzuoka i ici.		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	7.6
THOM THOM	27	Nagoya Port	30
Mie Pref.		Yokkaichi Port	97
11110 1 101.	29	Toba Port	34
Shiga Pref.	_	Lake Biwa (center, offshore of Minamihira)	21
Singu i ici.		Lake Biwa (center, offshore of Karasaki)	34
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	24
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	100
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	150
Osaka City		Mouth of Riv. Yodo (Osaka City)	170
	_	Osaka Port	470
		Outside Osaka Port	140
Hyogo Pref.		Offshore of Himeji	20
Kobe City		Kobe Port (center)	270
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	3.7
Wakayama Pref.	41		37
Okayama Pref.	42	Offshore of Mizushima	3.8
Hiroshima Pref.		Kure Port	110
III somma i ici.		Hiroshima Bay	28
Yamaguchi Pref.	45	Tokuyama Bay	10
Tuninguoni 1101.	46	Offshore of Ube	15
	47	Offshore of Hagi	tr(0.5)
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	7.9
Kagawa Pref.	49	Takamatsu Port	90
Ehime Pref.	50	Niihama Port	1.3
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	2.7
Kitakyushu City	52	Dokai Bay	950
Fukuoka City	53	Hakata Bay	27
Saga Pref.	54	Imari Bay	28
Nagasaki Pref.	55	Omura Bay	13
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
Kagosiillia Fiel.		Riv. Amori (Kirishinia City) Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.		Naha Port	110
Okinawa FICI.	00	114114 1 011	110

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

[20-7] Heptachlorinated naphthalenes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 49/60 (Missing value: 0) Detection Frequency (sample): 49/60 (Missing value: 0)

	Aggregated value
Geometric mean	4.1
Median	4.6
Maximum	320
Minimum	nd

Local communities	No	Monitored sites	A composted value
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
покканао	2	Tomakomai Port	tr(0.3) 3.5
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	7.8
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	4.1
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	1.7
Fukushima Pref.	8	Onahama Port	93
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	52
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	21
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	tr(0.3)
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	77
·	14	Mouth of Riv. Sumida (Minato Ward)	120
Yokohama City	15	Yokohama Port	320
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	30
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	180
Niigata Pref.		Lower Riv. Shinano (Niigata City)	9.6
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	95
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	4.5
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(0.5)
Nagano Pref.		Lake Suwa (center)	7.8
Shizuoka Pref.	24		3.9
4:1:D C		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port Nagoya Port	tr(0.7)
Mie Pref.		Yokkaichi Port	5.0
Mile Prei.		Toba Port	9.2
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	3.8
Siliga I ICI.		Lake Biwa (center, offshore of Karasaki)	7.6
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	3.3
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	13
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	25
,		Mouth of Riv. Yodo (Osaka City)	22
	36	Osaka Port	54
	37	Outside Osaka Port	25
Hyogo Pref.	38	Offshore of Himeji	3.6
Kobe City		Kobe Port (center)	46
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	nd
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	5.7
Okayama Pref.	42		1.1
Hiroshima Pref.	43	Kure Port	26
Y 1:D C		Hiroshima Bay	4.6
Yamaguchi Pref.	45	Tokuyama Bay Offshore of Ube	3.5
	46 47	Offshore of Hagi	
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	nd 1.3
Kagawa Pref.	49	Takamatsu Port	8.1
Ehime Pref.		Niihama Port	2.1
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	tr(0.4)
Kitakyushu City	52	Dokai Bay	320
Fukuoka City	53	Hakata Bay	5.2
Saga Pref.	54		5.2
Nagasaki Pref.	55	Omura Bay	2.2
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	Naha Port	7.9

⁽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 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

[20-8] Octachlorinated naphthalene/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 46/60 (Missing value: 0) Detection Frequency (sample): 46/60 (Missing value: 0)

	Aggregated value
Geometric mean	1.9
Median	1.4
Maximum	230
Minimum	nd

T1	NI.	Monitored sites	A 4 - 1 1
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
Hokkaido	2	Tomakomai Port	nd 6.0
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	1.3
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	1.4
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	1.1
Fukushima Pref.	8	Onahama Port	70
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	8.3
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.		Coast of Ichihara and Anegasaki	11
Chiba City		Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	14
		Mouth of Riv. Sumida (Minato Ward)	79
Yokohama City	15		140
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	4.7
N D. C		Front of Ougi Town, Keihin Canal, Port of Kawasaki	33
Niigata Pref.		Lower Riv. Shinano (Niigata City)	1.1
Toyama Pref. Ishikawa Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	230
Fukui Pref.	21	Mouth of Riv. Sai (Kanazawa City) Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.		Lake Suwa (center)	1.8
Shizuoka Pref.	24		1.2
Silizuoka 1 ici.		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	tr(0.5)
111011111111		Nagoya Port	tr(0.8)
Mie Pref.		Yokkaichi Port	23
	29	Toba Port	5.8
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	tr(0.8)
	31	Lake Biwa (center, offshore of Karasaki)	1.5
Kyoto City	35	Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	tr(0.7)
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	4.3
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	8.2
		Mouth of Riv. Yodo (Osaka City)	4.4
		Osaka Port	13
		Outside Osaka Port	4.0
Hyogo Pref.		Offshore of Himeji	tr(0.8)
Kobe City		Kobe Port (center)	27
Nara Pref. Wakayama Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd 2.7
Okayama Pref.	42		tr(0.6)
Hiroshima Pref.	43	Kure Port	10
Tili Osinina Tiei.		Hiroshima Bay	1.4
Yamaguchi Pref.	45	Tokuyama Bay	1.5
Tumagarem Tren	46	Offshore of Ube	tr(0.6)
	47	Offshore of Hagi	nd
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	tr(0.4)
Kagawa Pref.	49	Takamatsu Port	1.9
Ehime Pref.	50	Niihama Port	4.8
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	1.9
Kitakyushu City	52	Dokai Bay	45
Fukuoka City	53	Hakata Bay	1.4
Saga Pref.	54	,	tr(0.7)
Nagasaki Pref.	55		tr(0.5)
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd 1
Olainas P. C	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	Naha Port	2.3

⁽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.

⁽Note 4) nd: Not detected

[21] Hexachlorobuta-1,3-diene/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 3/60 (Missing value: 0) Detection Frequency (sample): 3/60 (Missing value: 0)

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	170
Minimum	nd

T1	NI.	Monitored sites	A 1 1
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
Hokkaido	2	Tomakomai Port	nd nd
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	nd
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	170
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	nd
Chiba City		Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	nd
		Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	15	Yokohama Port	nd
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	nd
N D. C		Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(20)
Niigata Pref.		Lower Riv. Shinano (Niigata City)	nd
Toyama Pref. Ishikawa Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Fukui Pref.	21	Mouth of Riv. Sai (Kanazawa City) Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.		Lake Suwa (center)	nd
Shizuoka Pref.	24		nd
Sinzuoka 1 ici.		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	nd
111011111111		Nagoya Port	nd
Mie Pref.		Yokkaichi Port	nd
	29	Toba Port	nd
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	nd
	31	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City	35	Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	nd
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	nd
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	nd
		Mouth of Riv. Yodo (Osaka City)	nd
		Osaka Port	nd
		Outside Osaka Port	nd
Hyogo Pref.		Offshore of Himeji	nd
Kobe City		Kobe Port (center)	nd
Nara Pref. Wakayama Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd nd
Okayama Pref.	42		nd
Hiroshima Pref.	43	Kure Port	nd
THOSIMINA TICI.		Hiroshima Bay	nd
Yamaguchi Pref.	45	Tokuyama Bay	nd
rumagaem rren	46	Offshore of Ube	nd
	47	Offshore of Hagi	nd
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	49	Takamatsu Port	nd
Ehime Pref.	50	Niihama Port	50
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	52	Dokai Bay	nd
Fukuoka City	53	Hakata Bay	nd
Saga Pref.	54		nd
Nagasaki Pref.	55	,	nd
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
Oleiner B. C	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	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 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

[23] Short-chain chlorinated paraffins/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 37/60 (Missing value: 0) Detection Frequency (sample): 37/60 (Missing value: 0)

Detection limit: *1,500 Quantification limit: *4,000

	Aggregated value
Geometric mean	tr(3,000)
Median	tr(2,400)
Maximum	52,000
Minimum	nd

Local communities	No	Monitored sites	A composited violate
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value nd
Hokkaldo	2	Tomakomai Port	16,000
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	tr(1,500)
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	14,000
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	10		nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	tr(2,700)
Chiba City		Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	15,000
		Mouth of Riv. Sumida (Minato Ward)	33,000
Yokohama City	15	Yokohama Port	52,000
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	5,100
Niit- Df		Front of Ougi Town, Keihin Canal, Port of Kawasaki	31,000
Niigata Pref. Toyama Pref.		Lower Riv. Shinano (Niigata City) Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd +=(2,200)
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	tr(2,200) tr(3,200)
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.		Lake Suwa (center)	nd
Shizuoka Pref.	24		tr(2300)
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	nd
	27	Nagoya Port	5,100
Mie Pref.	28	Yokkaichi Port	4,500
	29	Toba Port	30,000
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	tr(3,100)
		Lake Biwa (center, offshore of Karasaki)	tr(1,900)
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	nd
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	38,000
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	14,000
		Mouth of Riv. Yodo (Osaka City)	18,000
		Osaka Port	18,000
Hyogo Pref.		Outside Osaka Port Offshore of Himeji	14,000 tr(3,500)
Kobe City		Kobe Port (center)	19,000
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	6,400
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(2,600)
Okayama Pref.	42		tr(2,400)
Hiroshima Pref.	43	Kure Port	7,900
		Hiroshima Bay	tr(1,500)
Yamaguchi Pref.	45	Tokuyama Bay	tr(2,400)
Ç	46	Offshore of Ube	tr(2,000)
	47	Offshore of Hagi	nd
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	tr(1,900)
Kagawa Pref.	49	Takamatsu Port	13,000
Ehime Pref.		Niihama Port	nd
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	tr(2400)
Kitakyushu City	52	Dokai Bay	15,000
Fukuoka City	53	Hakata Bay	nd
Saga Pref.	54	-	6,300
Nagasaki Pref.	55	Omura Bay	nd
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd 1
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd 1
Kagoshima Pref.	58 59	Riv. Amori (Kirishima City)	nd
Okinovya Duaf		Riv. Gotanda (Ichikikushikino City)	nd 20,000
Okinawa Pref.	60	Naha Port	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) 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 substance with the same number of carbons in the alkyl group.

[23-1] Chlorinated decanes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 30/60 (Missing value: 0)
Detection Frequency (sample): 30/60 (Missing value: 0)

	Aggregated value
Geometric mean	tr(400)
Median	nd
Maximum	4,300
Minimum	nd

Local communities	No	Monitored sites	A composted value
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value nd
Поккатао	2	Tomakomai Port	1,500
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	nd
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	tr(600)
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	nd
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	2,300
,	14	Mouth of Riv. Sumida (Minato Ward)	2,600
Yokohama City	15	Yokohama Port	2,700
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	tr(400)
		Front of Ougi Town, Keihin Canal, Port of Kawasaki	2,800
Niigata Pref.		Lower Riv. Shinano (Niigata City)	tr(300)
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(400)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	tr(400)
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(300)
Nagano Pref.		Lake Suwa (center)	nd
Shizuoka Pref.	24		nd
4:1:D 0		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	nd
Mie Pref.		Nagoya Port Yokkaichi Port	1,400 1,800
Mile Prei.		Toba Port	2,500
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	900
Siliga i ici.		Lake Biwa (center, offshore of Karasaki)	tr(600)
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	nd
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	3,200
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	2,300
		Mouth of Riv. Yodo (Osaka City)	3,100
	36	Osaka Port	1,700
	37	Outside Osaka Port	4,300
Hyogo Pref.	38	Offshore of Himeji	1,500
Kobe City		Kobe Port (center)	1,900
Nara Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	1,900
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1,100
Okayama Pref.	42		900
Hiroshima Pref.	43	Kure Port	nd
Y 1:D C		Hiroshima Bay	nd
Yamaguchi Pref.	45	Tokuyama Bay Offshore of Ube	nd
	46		nd 1
Tokushima Pref.	47 48	Offshore of Hagi Mouth of Riv. Vaching (Talayahima City)	nd
Kagawa Pref.	49	Mouth of Riv. Yoshino (Tokushima City) Takamatsu Port	nd tr(700)
Ehime Pref.	_	Niihama Port	nd
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	52	Dokai Bay	2,100
Fukuoka City	53	Hakata Bay	nd
Saga Pref.	54	•	tr(300)
Nagasaki Pref.	55	†	nd
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	57	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	Naha Port	1,600

⁽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.

⁽Note 4) nd: Not detected

[23-2] Chlorinated undecanes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 28/60 (Missing value: 0) Detection Frequency (sample): 28/60 (Missing value: 0)

	Aggregated value
Geometric mean	tr(500)
Median	nd
Maximum	7,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
	2	Tomakomai Port	2,400
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	nd
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	2,600
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.		Coast of Ichihara and Anegasaki	tr(700)
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	3,200
		Mouth of Riv. Sumida (Minato Ward)	6,100
Yokohama City	15	Yokohama Port	7,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	tr(900)
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	2,900
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	tr(400)
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.		Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	nd
Shizuoka Pref.	24	Shimizu Port	nd
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	nd
		Nagoya Port	tr(800)
Mie Pref.		Yokkaichi Port	tr(400)
iviic i ici.		Toba Port	4,300
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	tr(400)
Singu i ici.		Lake Biwa (center, offshore of Karasaki)	nd
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	nd
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	6,900
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	2,700
Osaka City		Mouth of Riv. Yodo (Osaka City)	2,500
		Osaka Port	2,900
		Outside Osaka Port	2,900
H D£		Offshore of Himeji	, , , , , ,
Hyogo Pref. Kobe City			tr(700)
Nara Pref.		Kobe Port (center) Taisho-bashi Bridge, Riv. Yamato (Oji Town)	2,600
			1,300
Wakayama Pref.		Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	42	Offshore of Mizushima	nd
Hiroshima Pref.		Kure Port	tr(1,100)
ļ	44	Hiroshima Bay	nd
**			
Yamaguchi Pref.	45	Tokuyama Bay	nd
Yamaguchi Pref.	45 46	Offshore of Ube	nd
Ü	45 46 47	Offshore of Ube Offshore of Hagi	nd nd
Tokushima Pref.	45 46 47 48	Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino (Tokushima City)	nd nd tr(400)
Tokushima Pref. Kagawa Pref.	45 46 47 48 49	Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino (Tokushima City) Takamatsu Port	nd nd tr(400) 1,500
Tokushima Pref. Kagawa Pref. Ehime Pref.	45 46 47 48 49 50	Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino (Tokushima City) Takamatsu Port Niihama Port	nd nd tr(400) 1,500 nd
Tokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref.	45 46 47 48 49 50	Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino (Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto (Shimanto City)	nd nd tr(400) 1,500 nd tr(500)
Tokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City	45 46 47 48 49 50 51 52	Offshore of Ube Offshore of Hagi Mouth of Riv. Yoshino (Tokushima City) Takamatsu Port Niihama Port Mouth of Riv. Shimanto (Shimanto City) Dokai Bay	nd nd tr(400) 1,500 nd tr(500) 2,500
Tokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City	45 46 47 48 49 50 51 52 53	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	nd nd tr(400) 1,500 nd tr(500) 2,500 nd
Tokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City	45 46 47 48 49 50 51 52 53 54	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	nd nd tr(400) 1,500 nd tr(500) 2,500
Tokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City	45 46 47 48 49 50 51 52 53 54 55	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	nd nd tr(400) 1,500 nd tr(500) 2,500 nd
Tokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref.	45 46 47 48 49 50 51 52 53 54 55	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	nd nd tr(400) 1,500 nd tr(500) 2,500 nd tr(500)
Tokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref.	45 46 47 48 49 50 51 52 53 54 55 56	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	nd nd tr(400) 1,500 nd tr(500) 2,500 nd tr(500) nd
Tokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref.	45 46 47 48 49 50 51 52 53 54 55 56 57	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)	nd nd tr(400) 1,500 nd tr(500) 2,500 nd tr(500) nd tr(500) nd nd
Tokushima Pref. Kagawa Pref. Ehime Pref. Kochi Pref. Kitakyushu City Fukuoka City Saga Pref. Nagasaki Pref. Oita Pref. Miyazaki Pref.	45 46 47 48 49 50 51 52 53 54 55 56 57	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)	nd nd tr(400) 1,500 nd tr(500) 2,500 nd tr(500) nd tr(500) nd nd 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

[23-3] Chlorinated dodecanes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 44/60 (Missing value: 0)
Detection Frequency (sample): 44/60 (Missing value: 0)

	Aggregated value
Geometric mean	tr(900)
Median	tr(800)
Maximum	12,000
Minimum	nd

Local communities	Na	Monitored sites	Aggregated value
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Hokkaldo	2	Tomakomai Port	3,400
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	tr(900)
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	4,100
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	10		nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	tr(800)
Chiba City		Mouth of Riv. Hanami (Chiba City)	tr(500)
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	4,000
W 1 1 G':		Mouth of Riv. Sumida (Minato Ward)	8,300
Yokohama City	15	Yokohama Port	11,000
Kawasaki City		Mouth of Riv. Tama (Kawasaki City) Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,300 12,000
Niigata Pref.		Lower Riv. Shinano (Niigata City)	tr(400)
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	1,000
Ishikawa Pref.		Mouth of Riv. Sai (Kanazawa City)	tr(800)
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.		Lake Suwa (center)	nd
Shizuoka Pref.	24		tr(900)
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(400)
Aichi Pref.	26	Kinuura Port	tr(500)
	27	Nagoya Port	1,100
Mie Pref.		Yokkaichi Port	tr(900)
		Toba Port	9,900
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	tr(600)
		Lake Biwa (center, offshore of Karasaki)	tr(700)
Kyoto City		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	nd
Osaka Pref.		Mouth of Riv. Yamato (Sakai City) Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	11,000 3,800
Osaka City		Mouth of Riv. Yodo (Osaka City)	3,600
		Osaka Port	5,300
		Outside Osaka Port	2,600
Hyogo Pref.		Offshore of Himeji	tr(500)
Kobe City		Kobe Port (center)	5,900
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	2,000
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(700)
Okayama Pref.	42		tr(900)
Hiroshima Pref.	43	Kure Port	3,000
	44	Hiroshima Bay	tr(600)
Yamaguchi Pref.	45	Tokuyama Bay	1,000
	46	Offshore of Ube	tr(900)
	47	Offshore of Hagi	nd
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	tr(500)
Kagawa Pref.	49	Takamatsu Port	3,200
Ehime Pref.		Niihama Port	nd
Kochi Pref. Kitakyushu City	51 52	Mouth of Riv. Shimanto (Shimanto City) Dokai Bay	tr(500) 4,000
Fukuoka City	53	Hakata Bay	tr(400)
Saga Pref.	54		2,700
Nagasaki Pref.	55	Omura Bay	tr(700)
Oita Pref.		Mouth of Riv. Oita (Oita City)	tr(400)
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	Naha Port	8,500

⁽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) tr: Detection limit value and more, less than Quantification limit value.

⁽Note 4) nd: Not detected

[23-4] Chlorinated tridecanes/sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 47/60 (Missing value: 0) Detection Frequency (sample): 47/60 (Missing value: 0)

	Aggregated value
Geometric mean	1,200
Median	1,000
Maximum	31,000
Minimum	nd

Local communities	No	Monitored sites	Aggregated value
Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	
Поккатао	2	Tomakomai Port	nd 8,300
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	tr(600)
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	tr(500)
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	tr(600)
Fukushima Pref.	8	Onahama Port	7,100
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(600)
Tochigi Pref.	10		tr(400)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	1,200
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	tr(600)
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	5,300
,	14	Mouth of Riv. Sumida (Minato Ward)	16,000
Yokohama City	15	Yokohama Port	31,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	2,500
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	13,000
Niigata Pref.		Lower Riv. Shinano (Niigata City)	tr(400)
Toyama Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(800)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	1,600
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	tr(400)
Shizuoka Pref.	24		1,400
		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	tr(500)
		Nagoya Port	1,800
Mie Pref.		Yokkaichi Port	1,400
al: D a		Toba Port	13,000
Shiga Pref.		Lake Biwa (center, offshore of Minamihira)	1,200
W + C'+		Lake Biwa (center, offshore of Karasaki)	tr(600)
Kyoto City Osaka Pref.		Miyamae-bashi Bridge,Riv. Katsura (Kyoto City) Mouth of Riv. Yamato (Sakai City)	nd 17,000
Osaka Prei. Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	5,400
Osaka City		Mouth of Riv. Yodo (Osaka City)	8,300
		Osaka Port	8,400
		Outside Osaka Port	4,500
Hyogo Pref.		Offshore of Himeji	tr(800)
Kobe City		Kobe Port (center)	8,400
Nara Pref.		Taisho-bashi Bridge, Riv. Yamato (Oji Town)	1,200
Wakayama Pref.	41	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(800)
Okayama Pref.	42		tr(600)
Hiroshima Pref.	43	Kure Port	3,800
	44	Hiroshima Bay	tr(900)
Yamaguchi Pref.	45	Tokuyama Bay	1,400
	46	Offshore of Ube	1,100
	47	Offshore of Hagi	nd
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	1,000
Kagawa Pref.	49	Takamatsu Port	7,500
Ehime Pref.		Niihama Port	nd
Kochi Pref.		Mouth of Riv. Shimanto (Shimanto City)	1,400
Kitakyushu City	52	Dokai Bay	6,600
Fukuoka City	53	Hakata Bay	tr(600)
Saga Pref.	54	,	2,800
Nagasaki Pref.	55	Omura Bay	tr(600)
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd
Olrimor D£	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	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.

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

⁽Note 4) nd: Not detected

[25] Perfluorohexane sulfonic acid (PFHxS) /sediment (pg/g-dry)

Monitored year: 2021

Detection Frequency (site): 19/60 (Missing value: 0) Detection Frequency (sample): 19/60 (Missing value: 0)

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	15
Minimum	nd

T1	NI.	Monitored sites	A 1 1
Local communities Hokkaido	No.	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	Aggregated value
поккатао	2	Tomakomai Port	nd nd
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	6
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	nd
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(4)
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	13
Chiba City		Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.		Mouth of Riv. Arakawa (Koto Ward)	6
		Mouth of Riv. Sumida (Minato Ward)	10
Yokohama City	15	Yokohama Port	11
Kawasaki City		Mouth of Riv. Tama (Kawasaki City)	tr(4)
N D. C		Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(4)
Niigata Pref.		Lower Riv. Shinano (Niigata City)	nd
Toyama Pref. Ishikawa Pref.		Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Fukui Pref.	21	Mouth of Riv. Sai (Kanazawa City) Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.		Lake Suwa (center)	8
Shizuoka Pref.	24		nd
Sinzuoka 1 ici.		Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.		Kinuura Port	tr(5)
111011111111		Nagoya Port	nd
Mie Pref.		Yokkaichi Port	nd
	29	Toba Port	nd
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	11
	31	Lake Biwa (center, offshore of Karasaki)	11
Kyoto City	35	Miyamae-bashi Bridge,Riv. Katsura (Kyoto City)	nd
Osaka Pref.		Mouth of Riv. Yamato (Sakai City)	nd
Osaka City		Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	nd
		Mouth of Riv. Yodo (Osaka City)	nd
		Osaka Port	nd
		Outside Osaka Port	nd
Hyogo Pref.		Offshore of Himeji	tr(3)
Kobe City		Kobe Port (center)	8
Nara Pref. Wakayama Pref.	40	Taisho-bashi Bridge, Riv. Yamato (Oji Town) Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	42		nd nd
Hiroshima Pref.	43	Kure Port	15
Tili Osinina Tiei.		Hiroshima Bay	nd
Yamaguchi Pref.	45	Tokuyama Bay	tr(5)
Tumagarem Tren	46	Offshore of Ube	nd
	47	Offshore of Hagi	nd
Tokushima Pref.	48	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	49	Takamatsu Port	nd
Ehime Pref.	50	Niihama Port	nd
Kochi Pref.	51	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	52	Dokai Bay	nd
Fukuoka City	53	Hakata Bay	tr(4)
Saga Pref.	54	,	nd
Nagasaki Pref.	55	,	12
Oita Pref.		Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.		Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	58	Riv. Amori (Kirishima City)	nd 1
Olainas P. C	59	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	60	Naha Port	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.

⁽Note 4) nd: Not detected

[1] Total Polychlorinated biphenyls (Total PCBs)/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 60/60 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

Detection limit: *10 Quantification limit: *7.8

	Aggregated value
Geometric mean	12,000
Median	13,000
Maximum	210,000
Minimum	490

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	1,500	13,000	150,000
Median	980	16,000	
Maximum	7,200	130,000	210,000
Minimum	490	800	110,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	980
	Yokohama City	2	Yokohama Port	Green mussel	7,200
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	490
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	800
		2		Chum salmon	1,400
	Iwate Pref.	3	Yamada Bay	Greenling	13,000
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	7,100
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	6,900
	Tokyo Met.	6	Tokyo Bay	Sea bass	81,000
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	61,000
	Nagoya City	8	Nagoya Port	Striped mullet	21,000
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	18,000
	Osaka Pref.	10	Osaka Bay	Sea bass	110,000
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	130,000
	Tottori Pref.	12	Nakaumi	Sea bass	8,700
	Hiroshima City	13	Hiroshima Bay	Sea bass	29,000
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	87,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	870
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	36,000
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	4,800
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	1,400
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	210,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	110,000
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	25,000,000
		value		Egg of Great Cormorant (Egg white)	50,000

⁽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 congeners.

[1-1] Monochlorobiphenyls/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 16/23 (Missing value: 0)
Detection Frequency (sample): 16/23 (Missing value: 0)

Detection limit: 0.8 Quantification limit: 2.2

	Aggregated value
Geometric mean	tr(1.9)
Median	tr(1.5)
Maximum	16
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	14/18	0/2
Detection Frequency (sample)	2/3	14/18	0/2
Geometric mean	tr(1.8)	2.3	nd
Median	tr(0.9)	tr(1.8)	
Maximum	16	14	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	16
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(0.9)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	tr(1.0)
	Iwate Pref.	3	Yamada Bay	Greenling	tr(1.1)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	tr(1.4)
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	tr(1.5)
	Tokyo Met.	6	Tokyo Bay	Sea bass	9.5
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	6.5
	Nagoya City	8	Nagoya Port	Striped mullet	10
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	tr(1.5)
	Osaka Pref.	10	Osaka Bay	Sea bass	14
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	5.4
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	2.2
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	12
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	6.6
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	3.6
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	5.3
		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: 2021

Detection Frequency (site): 22/23 (Missing value: 0)
Detection Frequency (sample): 22/23 (Missing value: 0)

Detection limit : 2 Quantification limit : 5

	Aggregated value
Geometric mean	34
Median	24
Maximum	500
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	1/2
Detection Frequency (sample)	3/3	18/18	1/2
Geometric mean	37	46	tr(2)
Median	24	36	
Maximum	170	500	tr(4)
Minimum	12	tr(3)	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	24
	Yokohama City	2	Yokohama Port	Green mussel	170
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	12
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	7
		2		Chum salmon	21
	Iwate Pref.	3	Yamada Bay	Greenling	30
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	24
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	24
	Tokyo Met.	6	Tokyo Bay	Sea bass	430
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	290
	Nagoya City	8	Nagoya Port	Striped mullet	390
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	9
	Osaka Pref.	10	Osaka Bay	Sea bass	500
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	190
	Tottori Pref.	12	Nakaumi	Sea bass	15
	Hiroshima City	13	Hiroshima Bay	Sea bass	68
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	210
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	5
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	41
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	68
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	tr(3)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	tr(4)
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	120
		value		Egg of Great Cormorant (Egg white)	tr(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 3) tr : Detection limit value and more, less than Quantification limit value.

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

[1-3] Trichlorobiphenyls/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0)
Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	460
Median	310
Maximum	9,500
Minimum	10

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	110	490	2,100
Median	50	280	
Maximum	1,100	9,500	3,500
Minimum	25	10	1,300

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	50
	Yokohama City	2	Yokohama Port	Green mussel	1,100
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	25
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	40
		2		Chum salmon	120
	Iwate Pref.	3	Yamada Bay	Greenling	310
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	200
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	240
	Tokyo Met.	6	Tokyo Bay	Sea bass	9,500
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	7,700
Ī	Nagoya City	8	Nagoya Port	Striped mullet	4,000
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	190
	Osaka Pref.	10	Osaka Bay	Sea bass	9,300
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	5,400
	Tottori Pref.	12	Nakaumi	Sea bass	140
	Hiroshima City	13	Hiroshima Bay	Sea bass	590
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	8,100
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	22
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	470
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	200
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	10
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	3,500
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	1,300
[Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,200,000
		value		Egg of Great Cormorant (Egg white)	4,900

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	1,600
Median	2,000
Maximum	28,000
Minimum	37

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	250	1,700	9,100
Median	110	1,500	
Maximum	2,300	28,000	15,000
Minimum	61	37	5,500

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	110
	Yokohama City	2	Yokohama Port	Green mussel	2,300
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	61
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	92
		2		Chum salmon	290
	Iwate Pref.	3	Yamada Bay	Greenling	890
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	780
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	970
	Tokyo Met.	6	Tokyo Bay	Sea bass	28,000
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	22,000
	Nagoya City	8	Nagoya Port	Striped mullet	7,200
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	2,000
	Osaka Pref.	10	Osaka Bay	Sea bass	26,000
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	25,000
	Tottori Pref.	12	Nakaumi	Sea bass	820
	Hiroshima City	13	Hiroshima Bay	Sea bass	2,400
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	16,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	93
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	3,200
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	600
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	37
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	15,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	5,500
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,100,000
		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.

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

Monitored year: 2021

Detection Frequency (site): 22/23 (Missing value: 0)
Detection Frequency (sample): 22/23 (Missing value: 0)

Detection limit: 0.6 Quantification limit: 1.6

	Aggregated value
Geometric mean	10
Median	10
Maximum	110
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	17/18	2/2
Detection Frequency (sample)	3/3	17/18	2/2
Geometric mean	4.3	11	22
Median	2.6	10	
Maximum	13	110	60
Minimum	2.3	nd	7.9

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	2.3
	Yokohama City	2	Yokohama Port	Green mussel	13
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	2.6
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(1.3)
		2		Chum salmon	1.6
	Iwate Pref.	3	Yamada Bay	Greenling	10
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	4.6
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	7.1
	Tokyo Met.	6	Tokyo Bay	Sea bass	79
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	68
	Nagoya City	8	Nagoya Port	Striped mullet	24
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	35
	Osaka Pref.	10	Osaka Bay	Sea bass	110
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	63
	Tottori Pref.	12	Nakaumi	Sea bass	4.2
	Hiroshima City	13	Hiroshima Bay	Sea bass	11
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	90
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(1.4)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	18
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	7.1
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	60
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	7.9
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	500
		value		Egg of Great Cormorant (Egg white)	tr(1.4)

⁽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).

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

⁽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: 2021

Detection Frequency (site): 14/23 (Missing value: 0) Detection Frequency (sample): 14/23 (Missing value: 0)

Detection limit: 0.7 Quantification limit: 1.8

	Aggregated value
Geometric mean	tr(1.2)
Median	tr(0.7)
Maximum	37
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	11/18	2/2
Detection Frequency (sample)	1/3	11/18	2/2
Geometric mean	nd	tr(1.0)	24
Median	nd	tr(0.7)	
Maximum	tr(0.8)	12	37
Minimum	nd	nd	16

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	tr(0.8)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	tr(0.7)
	Tokyo Met.	6	Tokyo Bay	Sea bass	2.3
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	2.7
	Nagoya City	8	Nagoya Port	Striped mullet	2.1
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	3.7
	Osaka Pref.	10	Osaka Bay	Sea bass	5.3
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	3.8
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	tr(0.8)
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	12
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(0.7)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	tr(0.7)
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	37
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	16
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,600
		value		Egg of Great Cormorant (Egg white)	2.7

⁽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).

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

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

[1-5] Pentachlorobiphenyls/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0)
Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	3,000
Median	2,800
Maximum	51,000
Minimum	120

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	380	3,200	33,000
Median	250	4,000	
Maximum	1,800	34,000	51,000
Minimum	120	120	22,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	250
	Yokohama City	2	Yokohama Port	Green mussel	1,800
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	120
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	210
		2		Chum salmon	440
	Iwate Pref.	3	Yamada Bay	Greenling	2,300
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	2,000
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	2,200
	Tokyo Met.	6	Tokyo Bay	Sea bass	24,000
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	18,000
	Nagoya City	8	Nagoya Port	Striped mullet	5,200
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	7,000
	Osaka Pref.	10	Osaka Bay	Sea bass	34,000
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	33,000
	Tottori Pref.	12	Nakaumi	Sea bass	2,800
	Hiroshima City	13	Hiroshima Bay	Sea bass	6,100
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	14,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	210
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	7,700
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	1,400
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	120
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	51,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	22,000
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	6,400,000
		value		Egg of Great Cormorant (Egg white)	15,000

⁽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: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	150
Median	160
Maximum	5,300
Minimum	5.2

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	17	150	3,900
Median	11	180	
Maximum	87	1,100	5,300
Minimum	5.2	13	2,800

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	11
	Yokohama City	2	Yokohama Port	Green mussel	87
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	5.2
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	18
		2		Chum salmon	17
	Iwate Pref.	3	Yamada Bay	Greenling	160
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	120
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	110
	Tokyo Met.	6	Tokyo Bay	Sea bass	660
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	610
	Nagoya City	8	Nagoya Port	Striped mullet	260
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	450
	Osaka Pref.	10	Osaka Bay	Sea bass	1,100
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	1,100
	Tottori Pref.	12	Nakaumi	Sea bass	110
	Hiroshima City	13	Hiroshima Bay	Sea bass	190
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	740
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	14
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	250
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	100
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	13
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	5,300
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	2,800
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	530,000
		value		Egg of Great Cormorant (Egg white)	1,400

⁽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.

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

Monitored year: 2021

Detection Frequency (site): 22/23 (Missing value: 0) Detection Frequency (sample): 22/23 (Missing value: 0)

Detection limit: 0.8 Quantification limit: 2.1

	Aggregated value
Geometric mean	20
Median	24
Maximum	700
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	18/18	2/2
Detection Frequency (sample)	2/3	18/18	2/2
Geometric mean	tr(1.7)	21	540
Median	tr(1.6)	24	
Maximum	7.7	200	700
Minimum	nd	tr(1.3)	410

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(1.6)
	Yokohama City	2	Yokohama Port	Green mussel	7.7
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	2.1
		2		Chum salmon	2.3
	Iwate Pref.	3	Yamada Bay	Greenling	25
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	16
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	15
	Tokyo Met.	6	Tokyo Bay	Sea bass	66
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	65
	Nagoya City	8	Nagoya Port	Striped mullet	24
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	38
	Osaka Pref.	10	Osaka Bay	Sea bass	140
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	200
	Tottori Pref.	12	Nakaumi	Sea bass	14
	Hiroshima City	13	Hiroshima Bay	Sea bass	57
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	110
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(1.3)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	64
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	13
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	tr(1.5)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	700
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	410
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	69,000
		value		Egg of Great Cormorant (Egg white)	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.

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

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

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	540
Median	480
Maximum	20,000
Minimum	26

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	63	540	14,000
Median	35	640	
Maximum	280	5,000	20,000
Minimum	26	36	9,700

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	35
	Yokohama City	2	Yokohama Port	Green mussel	280
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	26
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	50
		2		Chum salmon	59
	Iwate Pref.	3	Yamada Bay	Greenling	480
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	450
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	400
	Tokyo Met.	6	Tokyo Bay	Sea bass	3,200
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	2,800
	Nagoya City	8	Nagoya Port	Striped mullet	800
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	1,200
	Osaka Pref.	10	Osaka Bay	Sea bass	4,500
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	5,000
	Tottori Pref.	12	Nakaumi	Sea bass	420
	Hiroshima City	13	Hiroshima Bay	Sea bass	830
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	2,200
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	36
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	1,100
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	250
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	39
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	20,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	9,700
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	2,900,000
		value		Egg of Great Cormorant (Egg white)	5,000

⁽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.

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

Monitored year: 2021

Detection Frequency (site): 22/23 (Missing value: 0)
Detection Frequency (sample): 22/23 (Missing value: 0)

Detection limit: 0.6 Quantification limit: 1.5

	Aggregated value
Geometric mean	9.7
Median	10
Maximum	370
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	18/18	2/2
Detection Frequency (sample)	2/3	18/18	2/2
Geometric mean	tr(0.9)	9.9	270
Median	tr(0.7)	12	
Maximum	4.0	73	370
Minimum	nd	tr(0.6)	200

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(0.7)
	Yokohama City	2	Yokohama Port	Green mussel	4.0
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(0.6)
		2		Chum salmon	tr(1.3)
	Iwate Pref.	3	Yamada Bay	Greenling	10
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	7.7
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	7.6
	Tokyo Met.	6	Tokyo Bay	Sea bass	43
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	36
	Nagoya City	8	Nagoya Port	Striped mullet	17
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	23
	Osaka Pref.	10	Osaka Bay	Sea bass	73
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	71
	Tottori Pref.	12	Nakaumi	Sea bass	7.1
	Hiroshima City	13	Hiroshima Bay	Sea bass	15
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	54
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(1.3)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	19
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	5.8
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	tr(0.7)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	370
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	200
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	38,000
		value		Egg of Great Cormorant (Egg white)	64

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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: 2021

Detection Frequency (site): 21/23 (Missing value: 0)
Detection Frequency (sample): 21/23 (Missing value: 0)

Detection limit: 0.7 Quantification limit: 1.7

	Aggregated value
Geometric mean	5.5
Median	6.4
Maximum	110
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	16/18	2/2
Detection Frequency (sample)	3/3	16/18	2/2
Geometric mean	tr(1.2)	5.2	88
Median	tr(1.3)	8.1	
Maximum	1.9	25	110
Minimum	tr(0.7)	nd	70

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(1.3)
	Yokohama City	2	Yokohama Port	Green mussel	1.9
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(0.7)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	6.4
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	2.7
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	9.8
	Tokyo Met.	6	Tokyo Bay	Sea bass	23
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	14
	Nagoya City	8	Nagoya Port	Striped mullet	5.3
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	24
	Osaka Pref.	10	Osaka Bay	Sea bass	25
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	23
	Tottori Pref.	12	Nakaumi	Sea bass	2.8
	Hiroshima City	13	Hiroshima Bay	Sea bass	12
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	13
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(0.7)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	23
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	3.8
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	tr(0.7)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	110
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	70
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	5,100
		value		Egg of Great Cormorant (Egg white)	4.0

⁽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).

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

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

[1-6] Hexachlorobiphenyls/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0)
Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	3,900
Median	3,700
Maximum	100,000
Minimum	210

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	490	4,000	72,000
Median	400	4,600	
Maximum	1,400	41,000	100,000
Minimum	210	310	52,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	400
	Yokohama City	2	Yokohama Port	Green mussel	1,400
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	210
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	310
		2		Chum salmon	370
	Iwate Pref.	3	Yamada Bay	Greenling	5,400
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	2,900
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	2,500
	Tokyo Met.	6	Tokyo Bay	Sea bass	15,000
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	10,000
	Nagoya City	8	Nagoya Port	Striped mullet	3,200
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	6,900
	Osaka Pref.	10	Osaka Bay	Sea bass	27,000
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	41,000
	Tottori Pref.	12	Nakaumi	Sea bass	3,700
	Hiroshima City	13	Hiroshima Bay	Sea bass	13,000
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	24,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	360
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	15,000
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	1,700
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	410
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	100,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	52,000
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	10,000,000
		value	- , , , , , , , , , , , , , , , , , , ,	Egg of Great Cormorant (Egg white)	15,000

⁽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: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	56
Median	69
Maximum	2,400
Minimum	2.3

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	4.7	57	2,100
Median	4.1	71	
Maximum	11	480	2,400
Minimum	2.3	3.5	1,800

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	4.1
	Yokohama City	2	Yokohama Port	Green mussel	11
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	2.3
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	4.3
		2		Chum salmon	3.5
	Iwate Pref.	3	Yamada Bay	Greenling	73
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	40
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	37
	Tokyo Met.	6	Tokyo Bay	Sea bass	230
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	160
	Nagoya City	8	Nagoya Port	Striped mullet	69
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	140
	Osaka Pref.	10	Osaka Bay	Sea bass	420
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	480
	Tottori Pref.	12	Nakaumi	Sea bass	42
	Hiroshima City	13	Hiroshima Bay	Sea bass	100
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	270
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	9.2
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	130
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	31
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	7.4
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	2,400
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	1,800
Ī	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	340,000
		value		Egg of Great Cormorant (Egg white)	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.

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

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

Detection limit: 0.7 Quantification limit: 1.8

	Aggregated value
Geometric mean	15
Median	17
Maximum	590
Minimum	tr(1.0)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	tr(1.6)	15	530
Median	tr(1.0)	19	
Maximum	4.4	110	590
Minimum	tr(1.0)	tr(1.3)	470

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(1.0)
	Yokohama City	2	Yokohama Port	Green mussel	4.4
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(1.0)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	2.0
		2		Chum salmon	tr(1.3)
	Iwate Pref.	3	Yamada Bay	Greenling	21
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	14
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	11
	Tokyo Met.	6	Tokyo Bay	Sea bass	48
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	39
	Nagoya City	8	Nagoya Port	Striped mullet	17
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	35
	Osaka Pref.	10	Osaka Bay	Sea bass	86
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	110
	Tottori Pref.	12	Nakaumi	Sea bass	11
	Hiroshima City	13	Hiroshima Bay	Sea bass	27
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	53
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	1.8
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	34
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	9.7
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	1.8
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	590
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	470
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	69,000
		value	- , , , , , , , , , , , , , , , , , , ,	Egg of Great Cormorant (Egg white)	73

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

Detection limit: 0.7 Quantification limit: 1.8

	Aggregated value
Geometric mean	33
Median	37
Maximum	1,400
Minimum	tr(1.7)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	3.8	33	1,100
Median	2.7	38	
Maximum	12	250	1,400
Minimum	tr(1.7)	2.1	900

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	2.7
	Yokohama City	2	Yokohama Port	Green mussel	12
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(1.7)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	2.1
		2		Chum salmon	2.1
	Iwate Pref.	3	Yamada Bay	Greenling	38
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	27
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	24
	Tokyo Met.	6	Tokyo Bay	Sea bass	130
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	88
	Nagoya City	8	Nagoya Port	Striped mullet	37
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	75
	Osaka Pref.	10	Osaka Bay	Sea bass	220
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	250
	Tottori Pref.	12	Nakaumi	Sea bass	25
	Hiroshima City	13	Hiroshima Bay	Sea bass	75
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	150
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	3.0
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	95
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	20
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	5.4
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	1,400
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	900
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	160,000
		value		Egg of Great Cormorant (Egg white)	150

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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: 2021

Detection Frequency (site): 8/23 (Missing value: 0)
Detection Frequency (sample): 8/23 (Missing value: 0)

Detection limit: 0.8 Quantification limit: 2.1

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	18
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	0/3	6/18	2/2
Detection Frequency (sample)	0/3	6/18	2/2
Geometric mean	nd	nd	17
Median	nd	nd	
Maximum	nd	tr(1.6)	18
Minimum	nd	nd	17

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	tr(1.0)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
-	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	tr(0.9)
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	tr(0.8)
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	tr(1.0)
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	tr(1.3)
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	tr(1.6)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	18
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	17
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	230
		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).

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

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

[1-7] Heptachlorobiphenyls/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	1,500
Median	1,100
Maximum	37,000
Minimum	56

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	140	1,600	29,000
Median	140	1,200	
Maximum	380	19,000	37,000
Minimum	56	100	22,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	140
	Yokohama City	2	Yokohama Port	Green mussel	380
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	56
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	120
		2		Chum salmon	100
	Iwate Pref.	3	Yamada Bay	Greenling	3,400
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	1,000
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	780
	Tokyo Met.	6	Tokyo Bay	Sea bass	3,400
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	2,400
	Nagoya City	8	Nagoya Port	Striped mullet	890
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	1,400
	Osaka Pref.	10	Osaka Bay	Sea bass	8,900
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	19,000
	Tottori Pref.	12	Nakaumi	Sea bass	1,100
	Hiroshima City	13	Hiroshima Bay	Sea bass	6,100
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	19,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	150
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	8,000
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	660
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	550
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	37,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	22,000
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,400,000
		value		Egg of Great Cormorant (Egg white)	4,000

⁽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.

$[1\text{-}7\text{-}1]\ 2\text{,}2'\text{,}3\text{,}3'\text{,}4\text{,}4'\text{,}5\text{-}Heptachlorobiphenyl}\ (\#170)\ / wildlife\ (pg/g\text{-}wet)$

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

Detection limit: 0.8 Quantification limit: 2.2

	Aggregated value
Geometric mean	110
Median	99
Maximum	4,600
Minimum	tr(1.9)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	4.3	130	3,700
Median	2.6	140	
Maximum	16	1,800	4,600
Minimum	tr(1.9)	6.8	2,900

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	2.6
	Yokohama City	2	Yokohama Port	Green mussel	16
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(1.9)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	12
		2		Chum salmon	6.8
	Iwate Pref.	3	Yamada Bay	Greenling	370
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	78
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	65
	Tokyo Met.	6	Tokyo Bay	Sea bass	300
-	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	200
	Nagoya City	8	Nagoya Port	Striped mullet	99
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	190
	Osaka Pref.	10	Osaka Bay	Sea bass	730
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	1,200
	Tottori Pref.	12	Nakaumi	Sea bass	65
	Hiroshima City	13	Hiroshima Bay	Sea bass	380
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	1,800
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	16
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	460
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	58
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	39
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	4,600
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	2,900
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	490,000
		value		Egg of Great Cormorant (Egg white)	610

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

 $[1\text{-}7\text{-}2]\ 2\text{,}2'\text{,}3\text{,}4\text{,}4'\text{,}5\text{,}5'\text{-}Heptachlorobiphenyl}\ (\#180)\ / wildlife\ (pg/g\text{-}wet)$

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	340
Median	250
Maximum	11,000
Minimum	6.1

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	18	390	8,800
Median	17	280	
Maximum	56	5,200	11,000
Minimum	6.1	18	7,100

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	17
	Yokohama City	2	Yokohama Port	Green mussel	56
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	6.1
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	34
		2		Chum salmon	18
	Iwate Pref.	3	Yamada Bay	Greenling	860
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	250
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	200
	Tokyo Met.	6	Tokyo Bay	Sea bass	870
-	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	630
	Nagoya City	8	Nagoya Port	Striped mullet	240
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	310
	Osaka Pref.	10	Osaka Bay	Sea bass	2,200
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	4,800
	Tottori Pref.	12	Nakaumi	Sea bass	210
	Hiroshima City	13	Hiroshima Bay	Sea bass	1,200
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	5,200
-	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	42
-	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	1,500
-	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	180
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	210
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	11,000
Ī	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	7,100
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,200,000
		value		Egg of Great Cormorant (Egg white)	1,100

⁽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.

 $[1\text{-}7\text{-}3]\ 2,3,3',4,4',5,5'\text{-}Heptachlorobiphenyl}\ (\#189)\ / wildlife\ (pg/g\text{-}wet)$

Monitored year: 2021

Detection Frequency (site): 20/23 (Missing value: 0) Detection Frequency (sample): 20/23 (Missing value: 0)

Detection limit: 0.8 Quantification limit: 2.1

	Aggregated value
Geometric mean	6.8
Median	7.0
Maximum	240
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	17/18	2/2
Detection Frequency (sample)	1/3	17/18	2/2
Geometric mean	nd	7.1	210
Median	nd	8.4	
Maximum	tr(1.1)	58	240
Minimum	nd	nd	190

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	tr(1.1)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(0.8)
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	17
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	4.7
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	7.0
	Tokyo Met.	6	Tokyo Bay	Sea bass	13
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	9.7
	Nagoya City	8	Nagoya Port	Striped mullet	4.6
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	15
	Osaka Pref.	10	Osaka Bay	Sea bass	31
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	57
	Tottori Pref.	12	Nakaumi	Sea bass	3.1
	Hiroshima City	13	Hiroshima Bay	Sea bass	19
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	58
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(1.6)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	24
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	2.9
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	tr(1.8)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	240
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	190
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	24,000
		value		Egg of Great Cormorant (Egg white)	16

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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: 2021

Detection Frequency (site): 23/23 (Missing value: 0)
Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	210
Median	200
Maximum	6,400
Minimum	3

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	7	260	5,100
Median	8	200	
Maximum	15	5,000	6,400
Minimum	3	10	4,100

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	8
	Yokohama City	2	Yokohama Port	Green mussel	15
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	3
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	20
		2		Chum salmon	10
	Iwate Pref.	3	Yamada Bay	Greenling	830
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	180
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	120
	Tokyo Met.	6	Tokyo Bay	Sea bass	450
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	270
	Nagoya City	8	Nagoya Port	Striped mullet	150
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	210
	Osaka Pref.	10	Osaka Bay	Sea bass	1,200
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	2,900
	Tottori Pref.	12	Nakaumi	Sea bass	140
	Hiroshima City	13	Hiroshima Bay	Sea bass	990
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	5,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	27
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	1,100
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	120
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	200
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	6,400
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	4,100
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	530,000
		value		Egg of Great Cormorant (Egg white)	440

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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: 2021

Detection Frequency (site): 21/23 (Missing value: 0)
Detection Frequency (sample): 21/23 (Missing value: 0)

Detection limit: 1 Quantification limit: 3

	Aggregated value
Geometric mean	20
Median	27
Maximum	660
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	18/18	2/2
Detection Frequency (sample)	1/3	18/18	2/2
Geometric mean	nd	24	570
Median	nd	29	
Maximum	tr(1)	330	660
Minimum	nd	tr(1)	490

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	tr(1)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(2)
		2		Chum salmon	tr(1)
	Iwate Pref.	3	Yamada Bay	Greenling	58
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	20
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	22
	Tokyo Met.	6	Tokyo Bay	Sea bass	53
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	27
	Nagoya City	8	Nagoya Port	Striped mullet	23
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	31
	Osaka Pref.	10	Osaka Bay	Sea bass	81
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	150
	Tottori Pref.	12	Nakaumi	Sea bass	8
	Hiroshima City	13	Hiroshima Bay	Sea bass	72
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	330
<u> </u>	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	3
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	66
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	11
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	31
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	660
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	490
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	29,000
		value		Egg of Great Cormorant (Egg white)	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.

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

[1-10] Decachlorobiphenyl/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 21/23 (Missing value: 0)
Detection Frequency (sample): 21/23 (Missing value: 0)

Detection limit: 0.6 Quantification limit: 1.6

	Aggregated value
Geometric mean	7.1
Median	12
Maximum	200
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	18/18	2/2
Detection Frequency (sample)	1/3	18/18	2/2
Geometric mean	tr(0.7)	7.4	170
Median	nd	12	
Maximum	3.7	29	200
Minimum	nd	tr(0.6)	140

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	3.7
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(0.7)
		2		Chum salmon	tr(0.6)
	Iwate Pref.	3	Yamada Bay	Greenling	12
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	12
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	19
	Tokyo Met.	6	Tokyo Bay	Sea bass	28
-	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	14
	Nagoya City	8	Nagoya Port	Striped mullet	8.1
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	11
	Osaka Pref.	10	Osaka Bay	Sea bass	14
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	17
	Tottori Pref.	12	Nakaumi	Sea bass	4.0
	Hiroshima City	13	Hiroshima Bay	Sea bass	19
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	29
-	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(1.1)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	18
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	4.0
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	2.7
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	140
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	200
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	16,000
		value	• • • • • • • • • • • • • • • • • • • •	Egg of Great Cormorant (Egg white)	4.8

⁽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.

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

[2] HCB (Hexachlorobenzene) /wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0)
Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	150
Median	130
Maximum	4,200
Minimum	tr(2)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	11	160	3,400
Median	26	160	
Maximum	26	950	4,200
Minimum	tr(2)	24	2,800

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	26
	Yokohama City	2	Yokohama Port	Green mussel	tr(2)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	26
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	200
		2		Chum salmon	880
	Iwate Pref.	3	Yamada Bay	Greenling	410
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	82
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	950
	Tokyo Met.	6	Tokyo Bay	Sea bass	460
-	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	280
	Nagoya City	8	Nagoya Port	Striped mullet	79
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	600
	Osaka Pref.	10	Osaka Bay	Sea bass	130
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	81
	Tottori Pref.	12	Nakaumi	Sea bass	24
	Hiroshima City	13	Hiroshima Bay	Sea bass	82
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	220
-	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	42
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	200
-	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	91
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	33
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	4,200
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	2,800
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	54,000
		value	•	Egg of Great Cormorant (Egg white)	130

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

[6-1] p,p'-DDT/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 22/23 (Missing value: 0)
Detection Frequency (sample): 22/23 (Missing value: 0)

Detection limit : 2 Quantification limit : 6

	Aggregated value
Geometric mean	110
Median	140
Maximum	1,500
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	17/18	2/2
Detection Frequency (sample)	3/3	17/18	2/2
Geometric mean	70	120	59
Median	29	170	
Maximum	420	1,500	120
Minimum	28	nd	29

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	29
	Yokohama City	2	Yokohama Port	Green mussel	420
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	28
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	17
		2		Chum salmon	44
	Iwate Pref.	3	Yamada Bay	Greenling	330
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	110
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	500
	Tokyo Met.	6	Tokyo Bay	Sea bass	200
-	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	140
	Nagoya City	8	Nagoya Port	Striped mullet	200
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	280
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	66
	Tottori Pref.	12	Nakaumi	Sea bass	140
	Hiroshima City	13	Hiroshima Bay	Sea bass	300
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	1,500
-	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	70
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	270
-	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	230
-	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	100
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	120
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	29
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	4,100
		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.

[6-2] p,p'-DDE/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0)
Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	2,100
Median	2,300
Maximum	100,000
Minimum	88

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	240	2,000	80,000
Median	160	2,600	
Maximum	960	8,500	100,000
Minimum	88	230	64,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	160
	Yokohama City	2	Yokohama Port	Green mussel	960
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	88
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	320
		2		Chum salmon	550
	Iwate Pref.	3	Yamada Bay	Greenling	3,000
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	1,200
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	2,300
	Tokyo Met.	6	Tokyo Bay	Sea bass	8,500
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	6,500
	Nagoya City	8	Nagoya Port	Striped mullet	1,300
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	5,900
	Osaka Pref.	10	Osaka Bay	Sea bass	4,000
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	4,600
	Tottori Pref.	12	Nakaumi	Sea bass	1,800
	Hiroshima City	13	Hiroshima Bay	Sea bass	3,100
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	5,300
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	230
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	3,100
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	1,600
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	610
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	64,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	100,000
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,600,000
		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.

[6-3] p,p'-DDD/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0)
Detection Frequency (sample): 23/23 (Missing value: 0)

	Aggregated value
Geometric mean	250
Median	330
Maximum	2,700
Minimum	5.2

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	69	320	130
Median	75	390	
Maximum	840	2,700	140
Minimum	5.2	26	120

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	75
	Yokohama City	2	Yokohama Port	Green mussel	840
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	5.2
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	40
		2		Chum salmon	150
	Iwate Pref.	3	Yamada Bay	Greenling	330
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	110
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	490
	Tokyo Met.	6	Tokyo Bay	Sea bass	1,000
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	750
	Nagoya City	8	Nagoya Port	Striped mullet	350
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	1,000
	Osaka Pref.	10	Osaka Bay	Sea bass	830
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	1,200
	Tottori Pref.	12	Nakaumi	Sea bass	270
	Hiroshima City	13	Hiroshima Bay	Sea bass	440
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	2,700
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	26
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	430
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	220
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	74
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	140
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	120
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	460
		value	- , ,,	Egg of Great Cormorant (Egg white)	2.3

⁽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.

[6-4] o,p'-DDT/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0)
Detection Frequency (sample): 23/23 (Missing value: 0)

Detection limit: 1 Quantification limit: 3

	Aggregated value
Geometric mean	18
Median	26
Maximum	93
Minimum	tr(1)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	20	24	tr(2)
Median	10	32	
Maximum	93	70	3
Minimum	8	tr(1)	tr(1)

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	8
	Yokohama City	2	Yokohama Port	Green mussel	93
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	10
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	3
		2		Chum salmon	38
	Iwate Pref.	3	Yamada Bay	Greenling	60
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	9
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	58
	Tokyo Met.	6	Tokyo Bay	Sea bass	35
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	28
	Nagoya City	8	Nagoya Port	Striped mullet	22
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	61
	Osaka Pref.	10	Osaka Bay	Sea bass	70
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	19
	Tottori Pref.	12	Nakaumi	Sea bass	20
	Hiroshima City	13	Hiroshima Bay	Sea bass	51
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	26
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	12
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	54
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	50
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	tr(1)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	3
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	tr(1)
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	25
		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.

[6-5] o,p'-DDE/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 22/23 (Missing value: 0)
Detection Frequency (sample): 22/23 (Missing value: 0)

Detection limit: 1 Quantification limit: 3

	Aggregated value
Geometric mean	21
Median	22
Maximum	1,600
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	17/18	2/2
Detection Frequency (sample)	3/3	17/18	2/2
Geometric mean	12	32	tr(1)
Median	8	32	
Maximum	110	1,600	tr(1)
Minimum	tr(2)	nd	tr(1)

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	8
	Yokohama City	2	Yokohama Port	Green mussel	110
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(2)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	4
		2		Chum salmon	14
	Iwate Pref.	3	Yamada Bay	Greenling	48
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	7
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	14
	Tokyo Met.	6	Tokyo Bay	Sea bass	1,600
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	1,500
	Nagoya City	8	Nagoya Port	Striped mullet	34
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	20
	Osaka Pref.	10	Osaka Bay	Sea bass	230
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	150
	Tottori Pref.	12	Nakaumi	Sea bass	31
	Hiroshima City	13	Hiroshima Bay	Sea bass	42
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	64
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(2)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	47
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	22
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	tr(1)
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	tr(1)
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	19
		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.

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

[6-6] o,p'-DDD/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 22/23 (Missing value: 0)
Detection Frequency (sample): 22/23 (Missing value: 0)

Detection limit : 2 Quantification limit : 5

	Aggregated value
Geometric mean	32
Median	44
Maximum	760
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	17/18	2/2
Detection Frequency (sample)	3/3	17/18	2/2
Geometric mean	33	39	6
Median	23	58	
Maximum	760	380	8
Minimum	tr(2)	nd	tr(4)

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	23
	Yokohama City	2	Yokohama Port	Green mussel	760
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(2)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	5
		2		Chum salmon	66
	Iwate Pref.	3	Yamada Bay	Greenling	90
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	20
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	tr(4)
	Tokyo Met.	6	Tokyo Bay	Sea bass	250
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	200
	Nagoya City	8	Nagoya Port	Striped mullet	42
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	65
	Osaka Pref.	10	Osaka Bay	Sea bass	320
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	380
	Tottori Pref.	12	Nakaumi	Sea bass	44
	Hiroshima City	13	Hiroshima Bay	Sea bass	64
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	67
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(3)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	52
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	35
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	8
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	tr(4)
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	48
		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.

[15] Perfluorooctane sulfonic acid (PFOS) /wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

Detection limit : 2 Quantification limit : 5

	Aggregated value
Geometric mean	88
Median	150
Maximum	15,000
Minimum	tr(2)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	14	81	3,000
Median	5	130	
Maximum	250	4,500	15,000
Minimum	tr(2)	tr(2)	590

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(2)
	Yokohama City	2	Yokohama Port	Green mussel	250
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	5
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(4)
		2		Chum salmon	tr(2)
	Iwate Pref.	3	Yamada Bay	Greenling	7
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	27
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	57
	Tokyo Met.	6	Tokyo Bay	Sea bass	330
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	300
	Nagoya City	8	Nagoya Port	Striped mullet	44
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	4,500
	Osaka Pref.	10	Osaka Bay	Sea bass	350
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	150
	Tottori Pref.	12	Nakaumi	Sea bass	340
	Hiroshima City	13	Hiroshima Bay	Sea bass	150
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	180
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	110
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	690
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	55
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	7
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	15,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	590
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	40,000
		value	- , ,,	Egg of Great Cormorant (Egg white)	260

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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: 2021

Detection Frequency (site): 18/23 (Missing value: 0)
Detection Frequency (sample): 18/23 (Missing value: 0)

Detection limit : 2 Quantification limit : 6

	Aggregated value
Geometric mean	tr(5)
Median	tr(4)
Maximum	410
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	14/18	2/2
Detection Frequency (sample)	2/3	14/18	2/2
Geometric mean	6	tr(4)	140
Median	11	tr(3)	
Maximum	16	40	410
Minimum	nd	nd	46

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	16
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	11
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(4)
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	16
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	32
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	8
	Tokyo Met.	6	Tokyo Bay	Sea bass	tr(4)
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(5)
	Nagoya City	8	Nagoya Port	Striped mullet	tr(4)
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	tr(40)
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(2)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	tr(2)
	Tottori Pref.	12	Nakaumi	Sea bass	tr(2)
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	tr(3)
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(2)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	tr(3)
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	410
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	46
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,200
		value		Egg of Great Cormorant (Egg white)	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 2) Data treated as detected means detection limit value and more.

[17] Pentachlorobenzene/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 21/23 (Missing value: 0)
Detection Frequency (sample): 21/23 (Missing value: 0)

Detection limit: 1 Quantification limit: 4

	Aggregated value
Geometric mean	24
Median	27
Maximum	470
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	16/18	2/2
Detection Frequency (sample)	3/3	16/18	2/2
Geometric mean	9	21	380
Median	11	33	
Maximum	15	150	470
Minimum	4	nd	300

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	4
	Yokohama City	2	Yokohama Port	Green mussel	11
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	15
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	18
		2		Chum salmon	67
	Iwate Pref.	3	Yamada Bay	Greenling	49
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	9
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	90
	Tokyo Met.	6	Tokyo Bay	Sea bass	150
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	82
	Nagoya City	8	Nagoya Port	Striped mullet	110
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	56
	Osaka Pref.	10	Osaka Bay	Sea bass	27
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	12
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	12
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	49
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	39
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	10
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	8
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	470
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	300
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	15,000
		value		Egg of Great Cormorant (Egg white)	43

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

[18] Endosulfans/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 0/23 (Missing value: 0)
Detection Frequency (sample): 0/23 (Missing value: 0)

Detection limit: *30 Quantification limit: *80

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	0/3	0/18	0/2
Detection Frequency (sample)	0/3	0/18	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	
Maximum	nd	nd	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	nd
		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) nd: Not detected

⁽Note 4) *: Indicates the sum value of the Quantification [Detection] limits of each target chemicals.

[18-1] α -Endosulfan/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 0/23 (Missing value: 0)
Detection Frequency (sample): 0/23 (Missing value: 0)

Detection limit: 20 Quantification limit: 60

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	0/3	0/18	0/2
Detection Frequency (sample)	0/3	0/18	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	
Maximum	nd	nd	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
-	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	nd
		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.

[18-2] β -Endosulfan/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 0/23 (Missing value: 0)
Detection Frequency (sample): 0/23 (Missing value: 0)

Detection limit: 6 Quantification limit: 18

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	0/3	0/18	0/2
Detection Frequency (sample)	0/3	0/18	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	
Maximum	nd	nd	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
-	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	tr(7)
		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.

[20] Total Polyhlorinated naphthalenes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 22/23 (Missing value: 0) Detection Frequency (sample): 22/23 (Missing value: 0)

Detection limit: *13

Quantification limit: *37

	Aggregated value
Geometric mean	74
Median	85
Maximum	600
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	18/18	2/2
Detection Frequency (sample)	2/3	18/18	2/2
Geometric mean	62	66	290
Median	60	74	
Maximum	600	360	330
Minimum	nd	tr(14)	250

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	60
	Yokohama City	2	Yokohama Port	Green mussel	600
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(14)
		2		Chum salmon	tr(23)
	Iwate Pref.	3	Yamada Bay	Greenling	94
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	37
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	85
	Tokyo Met.	6	Tokyo Bay	Sea bass	300
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	230
	Nagoya City	8	Nagoya Port	Striped mullet	120
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	93
	Osaka Pref.	10	Osaka Bay	Sea bass	360
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	99
	Tottori Pref.	12	Nakaumi	Sea bass	tr(19)
	Hiroshima City	13	Hiroshima Bay	Sea bass	53
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	200
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(17)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	63
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	41
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	tr(23)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	330
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	250
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	25,000
		value		Egg of Great Cormorant (Egg white)	38

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

⁽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 congeners.

[20-1] Monochlorinated naphthalenes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 15/23 (Missing value: 0) Detection Frequency (sample): 15/23 (Missing value: 0)

Detection limit : 2 Quantification limit : 6

	Aggregated value
Geometric mean	tr(4)
Median	6
Maximum	120
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	12/18	0/2
Detection Frequency (sample)	3/3	12/18	0/2
Geometric mean	9	tr(4)	nd
Median	8	6	
Maximum	33	120	nd
Minimum	tr(3)	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	8
	Yokohama City	2	Yokohama Port	Green mussel	33
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(3)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	6
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	8
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	tr(5)
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	7
	Tokyo Met.	6	Tokyo Bay	Sea bass	7
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	9
	Nagoya City	8	Nagoya Port	Striped mullet	11
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	120
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	18
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	6
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	12
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(2)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
Ī	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	10
		value		Egg of Great Cormorant (Egg white)	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.

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

[20-2] Dichlorinated naphthalenes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 15/23 (Missing value: 0) Detection Frequency (sample): 15/23 (Missing value: 0)

Detection limit : 2 Quantification limit : 5

	Aggregated value
Geometric mean	5
Median	6
Maximum	140
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	13/18	0/2
Detection Frequency (sample)	2/3	13/18	0/2
Geometric mean	9	5	nd
Median	5	8	
Maximum	140	49	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	5
	Yokohama City	2	Yokohama Port	Green mussel	140
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(3)
		2		Chum salmon	8
	Iwate Pref.	3	Yamada Bay	Greenling	16
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	tr(3)
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	15
	Tokyo Met.	6	Tokyo Bay	Sea bass	17
-	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	15
	Nagoya City	8	Nagoya Port	Striped mullet	13
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	49
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	8
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	6
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	10
-	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
-	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	10
-	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
-	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	tr(4)
		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.

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

[20-3] Trichlorinated naphthalenes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 17/23 (Missing value: 0) Detection Frequency (sample): 17/23 (Missing value: 0)

Detection limit : 2 Quantification limit : 6

	Aggregated value
Geometric mean	tr(5)
Median	tr(5)
Maximum	170
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	13/18	2/2
Detection Frequency (sample)	2/3	13/18	2/2
Geometric mean	13	tr(4)	tr(3)
Median	14	tr(5)	
Maximum	170	26	tr(5)
Minimum	nd	nd	tr(2)

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	14
	Yokohama City	2	Yokohama Port	Green mussel	170
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	tr(3)
	Iwate Pref.	3	Yamada Bay	Greenling	10
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	tr(2)
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	9
	Tokyo Met.	6	Tokyo Bay	Sea bass	26
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	22
	Nagoya City	8	Nagoya Port	Striped mullet	15
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	tr(2)
	Osaka Pref.	10	Osaka Bay	Sea bass	20
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	8
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	6
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	11
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	tr(4)
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	tr(5)
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	tr(2)
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	40
		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).

⁽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 naphthalenes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

Detection limit : 2 Quantification limit : 6

	Aggregated value
Geometric mean	25
Median	24
Maximum	190
Minimum	tr(2)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	21	21	140
Median	24	18	
Maximum	190	130	170
Minimum	tr(2)	tr(2)	120

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	24
	Yokohama City	2	Yokohama Port	Green mussel	190
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(2)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(2)
		2		Chum salmon	6
	Iwate Pref.	3	Yamada Bay	Greenling	28
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	10
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	17
	Tokyo Met.	6	Tokyo Bay	Sea bass	130
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	94
	Nagoya City	8	Nagoya Port	Striped mullet	53
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	33
	Osaka Pref.	10	Osaka Bay	Sea bass	79
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	36
	Tottori Pref.	12	Nakaumi	Sea bass	8
	Hiroshima City	13	Hiroshima Bay	Sea bass	18
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	83
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	6
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	13
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	17
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	9
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	170
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	120
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	13,000
		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).

⁽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 naphthalenes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 23/23 (Missing value: 0) Detection Frequency (sample): 23/23 (Missing value: 0)

Detection limit: 1 Quantification limit: 4

	Aggregated value
Geometric mean	23
Median	27
Maximum	120
Minimum	tr(2)

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	11	22	110
Median	8	24	
Maximum	61	89	120
Minimum	tr(3)	tr(2)	100

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	8
	Yokohama City	2	Yokohama Port	Green mussel	61
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(3)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(2)
		2		Chum salmon	5
	Iwate Pref.	3	Yamada Bay	Greenling	27
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	13
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	33
	Tokyo Met.	6	Tokyo Bay	Sea bass	89
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	69
	Nagoya City	8	Nagoya Port	Striped mullet	29
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	52
	Osaka Pref.	10	Osaka Bay	Sea bass	76
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	38
	Tottori Pref.	12	Nakaumi	Sea bass	10
	Hiroshima City	13	Hiroshima Bay	Sea bass	20
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	73
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	5
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	20
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	21
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	14
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	120
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	100
Ī	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	7,500
		value		Egg of Great Cormorant (Egg white)	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).

⁽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 naphthalenes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 21/23 (Missing value: 0)
Detection Frequency (sample): 21/23 (Missing value: 0)

Detection limit: 1 Quantification limit: 3

	Aggregated value
Geometric mean	4
Median	4
Maximum	36
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	3/3	16/18	2/2
Detection Frequency (sample)	3/3	16/18	2/2
Geometric mean	tr(2)	3	33
Median	tr(1)	4	
Maximum	5	31	36
Minimum	tr(1)	nd	30

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(1)
	Yokohama City	2	Yokohama Port	Green mussel	5
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(1)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(1)
		2		Chum salmon	tr(1)
	Iwate Pref.	3	Yamada Bay	Greenling	5
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	4
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	4
	Tokyo Met.	6	Tokyo Bay	Sea bass	31
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	21
-	Nagoya City	8	Nagoya Port	Striped mullet	4
-	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	6
	Osaka Pref.	10	Osaka Bay	Sea bass	16
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	9
	Tottori Pref.	12	Nakaumi	Sea bass	tr(1)
	Hiroshima City	13	Hiroshima Bay	Sea bass	3
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	10
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	4
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(1)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	36
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	30
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	4,500
		value		Egg of Great Cormorant (Egg white)	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.

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

[20-7] Heptachlorinated naphthalenes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 3/23 (Missing value: 0) Detection Frequency (sample): 3/23 (Missing value: 0)

Detection limit: 1 Quantification limit: 3

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(1)
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	2/18	0/2
Detection Frequency (sample)	1/3	2/18	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	
Maximum	tr(1)	tr(1)	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	tr(1)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	tr(1)
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(1)
-	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
-	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	33
		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.

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

[20-8] Octachlorinated naphthalene/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 0/23 (Missing value: 0)
Detection Frequency (sample): 0/23 (Missing value: 0)

Detection limit : 2 Quantification limit : 4

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	0/3	0/18	0/2
Detection Frequency (sample)	0/3	0/18	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	
Maximum	nd	nd	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	nd
		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.

[21] Hexachlorobuta-1,3-diene/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 15/23 (Missing value: 0)
Detection Frequency (sample): 15/23 (Missing value: 0)

Detection limit: 5

Quantification limit: 14

	Aggregated value
Geometric mean	tr(6)
Median	tr(5)
Maximum	24
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	14/18	0/2
Detection Frequency (sample)	1/3	14/18	0/2
Geometric mean	nd	tr(7)	nd
Median	nd	tr(10)	
Maximum	tr(5)	24	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(5)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(10)
		2		Chum salmon	16
	Iwate Pref.	3	Yamada Bay	Greenling	tr(10)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	tr(9)
	Tokyo Met.	6	Tokyo Bay	Sea bass	tr(10)
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(5)
	Nagoya City	8	Nagoya Port	Striped mullet	tr(5)
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	17
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	tr(10)
	Tottori Pref.	12	Nakaumi	Sea bass	tr(5)
	Hiroshima City	13	Hiroshima Bay	Sea bass	17
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	24
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	14
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(6)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	36
		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.

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

[23] Short-chain chlorinated paraffins/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 6/23 (Missing value: 0)
Detection Frequency (sample): 6/23 (Missing value: 0)

Detection limit: *900 Quantification limit: *2,300

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	8,100
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	3/18	2/2
Detection Frequency (sample)	1/3	3/18	2/2
Geometric mean	nd	nd	2,400
Median	nd	nd	
Maximum	2,600	8,100	4,800
Minimum	nd	nd	tr(1,200)

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	2,600
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	tr(1,900)
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
1	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	8,100
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(1,300)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	4,800
Ī	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	tr(1,200)
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	tr(1,500)
		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).

⁽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 substance with the same number of carbons in the alkyl group.

[23-1] Chlorinated decanes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 8/23 (Missing value: 0)
Detection Frequency (sample): 8/23 (Missing value: 0)

Detection limit : 200 Quantification limit : 600

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	700
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	2/3	4/18	2/2
Detection Frequency (sample)	2/3	4/18	2/2
Geometric mean	tr(200)	nd	tr(400)
Median	tr(300)	nd	
Maximum	tr(500)	700	600
Minimum	nd	nd	tr(300)

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	tr(500)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(300)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	700
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	tr(200)
1	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(500)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(200)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	600
Ī	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	tr(300)
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	tr(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).

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

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

[23-2] Chlorinated undecanes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 7/23 (Missing value: 0) Detection Frequency (sample): 7/23 (Missing value: 0)

Detection limit: 300 Quantification limit: 800

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	2,300
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	4/18	2/2
Detection Frequency (sample)	1/3	4/18	2/2
Geometric mean	nd	nd	1,000
Median	nd	nd	
Maximum	800	1,000	2,300
Minimum	nd	nd	tr(400)

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	800
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	1,000
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(300)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	tr(300)
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(500)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	2,300
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	tr(400)
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	nd
		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.

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

[23-3] Chlorinated dodecanes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 5/23 (Missing value: 0)
Detection Frequency (sample): 5/23 (Missing value: 0)

Detection limit : 200 Quantification limit : 400

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	1,000
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	3/18	1/2
Detection Frequency (sample)	1/3	3/18	1/2
Geometric mean	nd	nd	tr(300)
Median	nd	nd	
Maximum	400	tr(300)	1,000
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	400
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(200)
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	tr(200)
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(300)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	1,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
Ī	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	tr(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).

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

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

[23-4] Chlorinated tridecanes/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 5/23 (Missing value: 0) Detection Frequency (sample): 5/23 (Missing value: 0)

Detection limit : 200 Quantification limit : 500

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	7,000
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	2/18	2/2
Detection Frequency (sample)	1/3	2/18	2/2
Geometric mean	tr(200)	nd	700
Median	nd	nd	
Maximum	900	7,000	900
Minimum	nd	nd	500

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	900
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	7,000
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	600
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	900
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	500
	Hyogo Pref.		Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,000
		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.

[25] Perfluorohexane sulfonic acid (PFHxS)/wildlife (pg/g-wet)

Monitored year: 2021

Detection Frequency (site): 10/23 (Missing value: 0) Detection Frequency (sample): 10/23 (Missing value: 0)

Detection limit : 2 Quantification limit : 5

	Aggregated value
Geometric mean	tr(3)
Median	nd
Maximum	40
Minimum	nd

	Bibalves	Fish	Birds
Detection Frequency (site)	1/3	7/18	2/2
Detection Frequency (sample)	1/3	7/18	2/2
Geometric mean	nd	tr(2)	20
Median	nd	nd	
Maximum	tr(3)	16	40
Minimum	nd	nd	10

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bibalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Green mussel	tr(3)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	8
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	9
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	11
	Kawasaki City	7	Offshore of Ogishima Island, Port of Kawasaki	Sea bass	13
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(3)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	tr(3)
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	16
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabeam	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	tr(40)
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	10
	Hyogo Pref.	Reference	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,800
		value		Egg of Great Cormorant (Egg white)	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 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 Polychlorinated biphenyls (Total PCBs)/air (pg/m³)

Monitored year : 2021

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

Detection limit: *0.8 Quantification limit: *7.8

	Aggregated value
Geometric mean	71
Median	70
Maximum	340
Minimum	17

Local communities	No.	Monitored sites	Warm s		Air sampler
TT-1-1: 1-	1	Online Consul Subsurfactural Property (Halas data Cita)	Sampling dates	Measured value	MX
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	35	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	17	HV
виррого Спу		Supporo Fitt Fair (Supporo City)	$10/19 \sim 10/20$	17	11 1
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \sim 10/21$ $10/11 \sim 10/12$	28	HV
Iwate Frei.	3	Sugo Air Quanty Monitoring Station (Takizawa City)		20	п٧
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	58	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	41	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	66	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	120	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	52	MV
			11/11		.71. 7
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	160	HV
ranagawa 1101.		Tranagawa Environmentai researen center (imatsaka eng)	11/9 ~ 11/10	100	11 '
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/11$	160	MV
токонаша Спу	10	(Yokohama City)	10/23 ~ 11/1	100	IVI V
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	120	HV
•			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	70	HV
•		, , , , , , , , , , , , , , , , , , , ,	10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	62	HV
101111111111111111111111111111111111111	10	Environmental Science (Kanazawa City)	9/28 ~ 9/29	V-2	
		(9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	$9/27 \sim 9/28$	110	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			$9/29 \sim 9/30$		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	110	MV
ragano riei.	15	(Nagano City)	10/23 11/1	110	
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	70	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	74	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	56	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	340	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/27$	76	HV
11,050 1101.			10/20 - 10/27 $10/27 \sim 10/28$, ,	11.

Local communities	No.	Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	64	HV
		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	ì	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	120	HV
		Tomit in Quality Monitoring Station (Tomit Stoy)	11/16 ~ 11/17	120	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	29	HV
Similanc 1 Ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	2)	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	87	HV
mirosiiina City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/28 \sim 10/27$ $10/27 \sim 10/28$	0/	п٧
			10/28 ~ 10/29	110	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	140	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	84	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	79	HV
	_,	Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
			11/10 ~ 11/11	•	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	82	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	43	HV
Eminic 1 fer.		(Uwajima City)	11/16 ~ 11/17	15	11 1
		(Owajina Oity)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	120	HV
i ukuoka i ici.	30	Omata City Government Building (Omata City)	11/17 ~ 11/18	. 120	11 V
			11/17 ~ 11/18	•	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	75	MV
Saga Prei.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	/3	IVI V
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	56	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	1	
		····· (····)	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	46	MV
wiiyazaki i ici.	33	Environment (Miyazaki City)	10/25 11/1	40	141 4
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	52	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	49	HV
			9/28 ~ 9/29	1	
	l		9/29 ~ 9/30	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 congeners.

[1-1] Monochlorobiphenyls/air (pg/m³)

Monitored year: 2021

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

Detection limit: 0.03 Quantification limit: 0.09

	Aggregated value
Geometric mean	8.4
Median	8.6
Maximum	23
Minimum	1.4

Local communities	No.	Monitored sites	Warm s		Air sampler
TT 11 '1	1		Sampling dates	Measured value	
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	5.4	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	3.5	HV
Баррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/19$	3.3	11 V

Iwate Pref.	2	Constant Air Constitute Manifestina Chatian (Talainana Cita)	10/20 ~ 10/21	3.7	HV
iwate Prei.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	3./	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	5.4	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	5.8	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	8.0	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	13	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	3.4	MV
		, (, , , , , , , , , , , , , , , , , ,			
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	23	HV
J		, , , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/1$	23	MV
Tokonama Oky	10	(Yokohama City)	10/23 11/1	23	
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	6.2	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	6.2	HV
•		, , , , , , , , , , , , , , , , , , , ,	10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	8.0	HV
101111111111111111111111111111111111111	10	Environmental Science (Kanazawa City)	9/28 ~ 9/29	0.0	
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	$9/27 \sim 9/28$	5.4	HV
		Environment (Kofu City)	9/28 ~ 9/29	***	
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	7.0	MV
ragano i ici.	13	(Nagano City)	10/23 11/1	7.0	IVI V
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	7.4	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10	***	
		(11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	9.9	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	20	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	16	HV
		Annex (Osaka City)	10/26 ~ 10/27	-	
			$10/27 \sim 10/28$		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/28$	8.9	HV
11,050 1101.	20	11, 550 I Totocului Elivitolinioniui Roscatoli Celiui (Rosc City)		3.7	11 *
, ,			$10/27 \sim 10/28$		

Local communities	No.	Monitored sites		season	Air sampler
	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	6.6	HV
		(Kobe City)	10/19 ~ 10/20		
			$10/20 \sim 10/21$		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	12	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	5.1	HV
			11/17 ~ 11/18		
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	8.6	HV
•			10/27 ~ 10/28]	
			10/28 ~ 10/29		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	11	MV
8		Environment (Yamaguchi City)			
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	9.6	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	5.9	HV
101140111114111411		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
		Zivinoiminoimin solonosi comol (Tomasimina civi)	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	13	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	9.4	HV
		(Uwajima City)	11/16 ~ 11/17	1	
		(11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	20	HV
		g (11/17 ~ 11/18		
			11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	9.4	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	16	HV
1241114111010 1 101.	32	Environmental Science (Udo City)	11/16 ~ 11/17	10	11 4
		Zirinomini beleliee (ede city)	11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	17	MV
1111 yuzuni 1 101.	33	Environment (Miyazaki City)	10/23 11/1	17	141 4
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	11	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	1.4	HV
			9/28 ~ 9/29		
	l		9/29 ~ 9/30	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.

[1-2] Dichlorobiphenyls/air (pg/m³)

Monitored year: 2021

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

Detection limit: 0.1 Quantification limit: 0.4

	Aggregated value
Geometric mean	22
Median	24
Maximum	67
Minimum	5.3

Local communities	No.	Monitored sites	Warm		Air sampler
TT-1-1: 1-	1	Online Consul Subsurfactural Property (H.1-1-4-Cit.)	Sampling dates	Measured value	MXZ
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	14	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	5.3	HV
Sapporo City	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/19$ $10/19 \sim 10/20$	5.5	11 V

I (D C	_		10/20 ~ 10/21	1.1	1137
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	11	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	24	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	13	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	25	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	30	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	25	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	36	HV
C		, , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/1$	48	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	24	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	25	HV
·			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	22	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		•	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	41	HV
		Environment (Kofu City)	9/28 ~ 9/29		
)	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	28	MV
8		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	25	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	24	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	15	HV
		(Yokkaichi City)	10/19 ~ 10/20		
	L		10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	65	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	21	HV
	1	(,	10/27 ~ 10/28		

Local communities	No	No. Monitored sites	Warm	season	Air sampler
Local communities	100.	ivionitored sites	Sampling dates	Measured value	Air sampier
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	16	HV
·		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	67	HV
		Tomit in Quality Monitoring Station (Tomit Stoy)	11/16 ~ 11/17	,	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	9.9	HV
Similanc 1 Ici.	23	Oki National Acid Rain Observatory (Okinosinina Town)	11/10 ~ 11/17	9.9	11 V
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	23	HV
mirosiiina City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)		23	п٧
			10/27 ~ 10/28		
			10/28 ~ 10/29		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	42	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	27	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	21	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		***************************************	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	22	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	14	HV
Ellillic I Ici.	2)	(Uwajima City)	11/16 ~ 11/17	17	11 v
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	32	HV
rukuoka riei.	30	Official City Government Building (Official City)	$11/10 \sim 11/17$ $11/17 \sim 11/18$	32	11 V
G B C	2.1		11/18 ~ 11/19	25	3.67
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	25	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	21	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		(y)	11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	13	MV
, uzumi 1 101.	33	Environment (Miyazaki City)	10,20 11/1		141 4
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	18	HV
=		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	9.8	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30	ĺ	

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

[1-3] Trichlorobiphenyls/air (pg/m³)

Monitored year : 2021

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

Detection limit: 0.1 Quantification limit: 0.3

	Aggregated value
Geometric mean	19
Median	20
Maximum	82
Minimum	4.3

Local communities	No.	Monitored sites	Warm s		Air sampler
TT-1-1: 4-	1	Online Consul Subsurfactural Property (Halas data Cita)	Sampling dates	Measured value	MX
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	9.0	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	4.3	HV
заррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/18 \sim 10/19$ $10/19 \sim 10/20$	4.5	11 V
I (D C	_	G A' O I' M ' C C C (T 1: O')	10/20 ~ 10/21	7.5	1117
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	7.5	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	16	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	9.4	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	19	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	37	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	14	MV
		, (, , , , , , , , , , , , , , , , , ,			
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	45	HV
Č		, , , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	41	MV
Tenenana eng		(Yokohama City)	10,20		1.1
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	23	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	17	HV
·			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	17	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		•	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	30	HV
		Environment (Kofu City)	9/28 ~ 9/29		
		***	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	45	MV
8		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	21	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	20	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	12	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	82	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	20	HV
, 6		(-2000 01.9)	10/27 ~ 10/28	•	

Local communities	No.	Monitored sites	Warm season		Air sampler
	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	19	HV
		(Kobe City)	10/19 ~ 10/20		
			$10/20 \sim 10/21$		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	22	HV
			$11/16 \sim 11/17$		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	7.4	HV
			11/17 ~ 11/18		
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	20	HV
•			10/27 ~ 10/28	j l	
			10/28 ~ 10/29	Ì	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	45	MV
8		Environment (Yamaguchi City)			
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	24	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	utical and 11/8 ~ 11/9 29	20	HV
Tokusiiiiia Tiei.	21	Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	2)	11 *
		Environmental Sciences center (Tokushima City)	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	23	MV
		Sciences and Labric Fleatin (Taxamatsa City)			
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	8.9	HV
		(Uwajima City)	11/16 ~ 11/17	1	
		3 3/	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	23	HV
		g (11/17 ~ 11/18		
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	20	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	10	HV
		Environmental Science (Udo City)	11/16 ~ 11/17]	
			11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	8.7	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	11	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			$11/17 \sim 11/18$		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	25	HV
			9/28 ~ 9/29]	
	l		9/29 ~ 9/30]	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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: 2021

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

Detection limit: 0.3 Quantification limit: 0.8

	Aggregated value
Geometric mean	11
Median	11
Maximum	84
Minimum	2.1

Local communities	No.	Monitored sites	Warm s		Air sampler
TT-1-1: 1-	1	Online Consul Subsurfactural Property (Halas data Cita)	Sampling dates	Measured value	MX
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	3.5	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	2.1	HV
Баррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	2.1	11 V
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Iwate Pref.	2	Constant Air Constitute Manifestina Chatian (Talainana Cita)		3.7	HV
iwate Prei.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	3./	нv
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	7.2	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	5.5	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	9.2	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	23	MV
·		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	6.1	MV
	0	Chichighna Island (Ogasawara Village)	11//~11/14	0.1	IVI V
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	38	HV
ranagawa 1101.		Tranagawa Environmentai resseuren center (Tinassaka City)	11/9 ~ 11/10	30	11 '
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/11$	28	MV
т оконаша Спу	10	(Yokohama City)	10/23 ~ 11/1	20	IVI V
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	15	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	11	HV
·		• • • • • • • • • • • • • • • • • • • •	10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	8.9	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		` "	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	21	HV
		Environment (Kofu City)	9/28 ~ 9/29		•
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	20	MV
ragano i ici.	13	(Nagano City)	10/23 11/1	20	IVIV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	11	HV
J.10 1 101.	10	Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10	**	11.1
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	9.9	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	5.6	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	84	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			$10/27 \sim 10/28$		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/27$	17	HV
11,0801101.			10/20 - 10/27	- /	211

Local communities	No.	Monitored sites	Warm season		Air sampler
	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	13	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	12	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	3.6	HV
		,	11/17 ~ 11/18]	
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	15	HV
•		, , , , , , , , , , , , , , , , , , , ,	10/27 ~ 10/28		
			10/28 ~ 10/29	ĺ	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	27	MV
g		Environment (Yamaguchi City)		_,	
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	15	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	13	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
		•	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	13	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	5.2	HV
Limite 1 ter.	2)	(Uwajima City)	11/16 ~ 11/17	3.2	11 4
		(Owajima City)	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	15	HV
i ukuoka i ici.	30	Omata City Government Building (Omata City)	11/17 ~ 11/18	13	11 V
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	13	MV
Sugu i ici.	31	Saga Protectura Environmental Research Center (Saga City)	10/1 10/0	13	IVI V
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	5.6	HV
12	32	Environmental Science (Udo City)	11/16 ~ 11/17	5.5	11 ,
		Zin in similari serence (e do eng)	11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	4.2	MV
, uzum 1 101.		Environment (Miyazaki City)	10/20 11/1	1.2	141 4
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	6.4	HV
5		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	11	HV
		((9/28 ~ 9/29		
			9/29 ~ 9/30	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.

[1-4-1] 3,3',4,4'-Tetrachlorobiphenyl (#77) /air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 34/35 (Missing value: 0)
Detection Frequency (sample): 34/35 (Missing value: 0)

Detection limit: 0.02 Quantification limit: 0.05

	Aggregated value
Geometric mean	0.07
Median	0.06
Maximum	0.40
Minimum	nd

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates 10/19 ~ 10/26		MV
ноккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	tr(0.02)	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
Баррого Спу		Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	na	11 V
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \sim 10/21$ $10/11 \sim 10/12$	tr(0.02)	HV
Iwate Prei.	3	Sugo Air Quanty Monitoring Station (Takizawa City)		ur(0.02)	пν
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	0.05	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.04)	MV
C		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	0.06	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	0.11	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	0.05	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.28	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/25 ~ 11/1	0.15	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	0.15	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	0.09	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	0.05	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	0.10	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	0.10	MV
C		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	0.06	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.07	MV
Min Durf	10	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	te(0.04)	HV
Mie Pref.	18			tr(0.04)	нv
		(Yokkaichi City)	10/19 ~ 10/20		
0.1.7.2	4.0		10/20 ~ 10/21	0.46	
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.40	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			$10/27 \sim 10/28$		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	0.06	HV
			10/27 ~ 10/28		
			10/28 ~ 10/29		

Local communities	No	No. Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	0.06	HV
·		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	0.07	HV
11414 11011		Tomit in Quality Memoring Station (Tomit Stoy)	11/16 ~ 11/17	0.07	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	tr(0.04)	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	11(0.04)	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	0.14	HV
Tillosiiilia City	24	Throshinia City Kokutaiji Junioi Tiigii School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	0.14	11 V
1: D C	2.5	Y 1'D 0 1 1 1 1 1 1 1 1	10/28 ~ 10/29	0.10	107
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	0.18	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	0.12	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	0.05	HV
	-	Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		\	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	0.08	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(0.03)	HV
2		(Uwajima City)	11/16 ~ 11/17	11(0.05)	
		(Chajina Chij)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.13	HV
i unuona i ioi.	50	omata city government Banding (omata city)	11/17 ~ 11/18	0.13	11 1
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	0.06	MV
Saga 1 ICI.	31	Saga Trefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	0.00	IVI V
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(0.04)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	-(****)	
		(,/	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	tr(0.04)	MV
1711) W.Z.W. 11011		Environment (Miyazaki City)	10,20 11,1	u(0.0.1)	111 1
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.04)	HV
=		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	0.05	HV
		1 - (9/28 ~ 9/29		
			9/29 ~ 9/30	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).

⁽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

[1-4-2] 3,4,4',5-Tetrachlorobiphenyl (#81) /air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 6/35 (Missing value: 0) Detection Frequency (sample): 6/35 (Missing value: 0)

Detection limit: 0.02 Quantification limit: 0.04

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(0.03)
Minimum	nd

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26		MV
покканио	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	nd	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
заррого Спу		Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	IIG	11 V
T . D C	_		10/20 ~ 10/21	1	****
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	nd	MV
i amagata Prei.	3	City)	10/8 ~ 10/13	nd	IVI V
Ibaraki Pref.	-	Illusti V	10/12 ~ 10/19	1	MY
Ibaraki Prei.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	10/12 ~ 10/19	nd	MV
T. 1. 14			10/10 10/26	. (0.02)) (I)
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/19 ~ 10/26	tr(0.02)	MV
		Protection (Roto ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.02)	HV
8		5	11/9 ~ 11/10	(, ,	
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/1$	tr(0.02)	MV
Tokonama City	10	(Yokohama City)	10/25 11/1	11(0.02)	171 7
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	nd	HV
,			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
151111100000	10	Environmental Science (Kanazawa City)	9/28 ~ 9/29	11.0	
		Environmental serence (remazawa eng)	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
1 dinamaziii 1 ici.	1.7	Environment (Kofu City)	$9/28 \sim 9/29$	110	11 7
		Environment (Nota City)	$9/29 \sim 9/30$		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 9/30$	nd	MV
Nagano Fier.	13	(Nagano City)	10/23 ~ 11/1	nd	IVI V
Cify Dags	17	Gifu Prefectural Research Institute for Health and	11/0 11/0	4	1117
Gifu Pref.	16		11/8 ~ 11/9	nd	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	$11/10 \sim 11/11$ $10/19 \sim 10/26$	nd	MV
ragoya City	1/	Cinkusa watu Helwa i atk (ivagoya City)	10/19 ~ 10/20	IIU	1 V1 V
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
	10	(Yokkaichi City)	$10/19 \sim 10/20$		-1.
		(1 chiling)	$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	$10/20 \sim 10/21$ $10/25 \sim 10/26$	tr(0.03)	HV
Osaka Fiel.	19	Annex (Osaka City)		u(0.03)	11 4
		Annica (Osaka City)	$10/26 \sim 10/27$		
	Ì		10/27 ~ 10/28		
Llyna De-f	20	Uyang Drafaatural Environmental Dagarus Contra (V-1 C')	10/26 10/27	1	1117
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$\frac{10/26 \sim 10/27}{10/27 \sim 10/28}$	nd	HV

Local communities	No.	No. Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	nd	HV
		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	nd	HV
11414 11011		romarim Quanty maintening station (15mm stoy)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	nu nu	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	tr(0.02)	HV
Tillosiiilia City	24	Throshinia City Kokutaiji Junioi Tiigh School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	u(0.02)	11 V
1: D C	2.5	Y 1'D 0 1 1 1 1 1 1 1 1	10/28 ~ 10/29	,	3.67
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	nd	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
		\	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	nd	HV
2		(Uwajima City)	11/16 ~ 11/17		
		(Chajina Chaj)	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	tr(0.02)	HV
i ukuoka i ici.	50	Omata City Government Bunding (Omata City)	11/17 ~ 11/18	11(0.02)	111
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	nd	MV
Saga 1 ICI.	31	Saga Trefectural Environmental Research Center (Saga City)	10/1 ~ 10/6	nu	IVI V
Kumamoto Pref.	32	32 Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	nd	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	1	
		` <i>''</i>	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	nd	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
5.1.11mm a 1 101.	55	cupe rieus (risingum + muge)	9/28 ~ 9/29	1100	11 1
		1	$9/29 \sim 9/30$	j 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).

⁽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: 2021

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

Detection limit: 0.1 Quantification limit: 0.3

	Aggregated value
Geometric mean	5.2
Median	5.7
Maximum	64
Minimum	1.2

Local communities	No.	Monitored sites	Warm s		Air sampler
TT-1414-	1	Online Consul Subsurfactural Property (Halas data Cita)	Sampling dates	Measured value	MV
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	1.8	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	1.2	HV
Баррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	1.2	11 V
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Iwate Pref.	2	Constant Air Constitute Manifestina Chatian (Talainana Cita)		1.8	HV
Iwate Prei.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	1.8	нv
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	3.8	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	3.8	MV
S		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	3.9	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	10	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	2.0	MV
		emenginia isiana (egasawata vinage)	11/7 11/11	2.0	1.1
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	13	HV
ranagawa 1101.		Tranagawa Environmentai resseuren center (Tinassaka City)	11/9 ~ 11/10	13	11 '

Yokohama City	10	Yokohama Environmental Science Research Institute	$11/10 \sim 11/11$ $10/25 \sim 11/1$	17	MV
i okonama City	10	(Yokohama City)	10/23 ~ 11/1	17	IVI V
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	13	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	7.2	HV
,		(10/12 ~ 10/13	,	
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	4.3	HV
Ishikawa 1 lei.	13	Environmental Science (Kanazawa City)	9/28 ~ 9/29	4.5	111
		Environmental Science (Ranazawa City)	$9/29 \sim 9/30$		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	10	HV
i amanasını i ici.	14	Environment (Kofu City)	$9/27 \sim 9/28$ $9/28 \sim 9/29$	10	11 V
		Environment (Kota City)	$9/28 \sim 9/29$ $9/29 \sim 9/30$		
Nagano Pref.	1.5	No some Environmental Consequetion Descend Institute	77 7.00	7.5	MV
Nagano Prei.	15	Nagano Environmental Conservation Research Institute (Nagano City)	10/25 ~ 11/1	7.5	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	3.6	HV
Gilu I ICI.	10	Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10	5.0	11 4
		Environmental Sciences (Rakaninganara City)	$11/9 \sim 11/10$ $11/10 \sim 11/11$		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	$10/10 \sim 11/11$ $10/19 \sim 10/26$	6.4	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	2.8	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	64	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			$10/27 \sim 10/28$		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/27$	6.5	HV
Hyogo Pret.			10/20 - 10/27	0.0	11.1

Local communities	No.	No. Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	6.4	HV
		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	5.9	HV
11414 11011		Tomit in Quality Memoring Station (Tomit Stoy)	11/16 ~ 11/17	1	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	1.9	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	1.7	11 V
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	14	HV
mirosiiina City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/28 \sim 10/27$ $10/27 \sim 10/28$	14	п٧
				,	
			10/28 ~ 10/29		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	8.7	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	5.7	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	6.2	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
			11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	7.3	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	4.1	HV
Emme 1 let.		(Uwajima City)	11/16 ~ 11/17	7.1	11 7
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30 Omuta City Government Building (Omuta City)	11/16 ~ 11/17	10	HV	
Tukuoka 11ci.	30	Official City Government Building (Official City)	11/17 ~ 11/18	10	11 V
				1	
C D C	2.1		$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$	5.1	3.637
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	5.1	MV
Kumamoto Pref.	32	32 Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	2.2	HV
	-	Environmental Science (Udo City)	11/16 ~ 11/17	1	
		//	11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	10/25 ~ 11/1	2.0	MV
1111) 42.4411 1 1011		Environment (Miyazaki City)	10,20 11,1	2.0	1.1
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	3.3	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	1.6	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30	ĺ	

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

⁽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

[1-5-1] 2,3,3',4,4'-Pentachlorobiphenyl (#105) /air (pg/m³)

Monitored year: 2021

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

Detection limit: 0.02 Quantification limit: 0.04

	Aggregated value
Geometric mean	0.14
Median	0.15
Maximum	1.8
Minimum	tr(0.02)

Local communities	No.	Monitored sites	Warm s		Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates 10/19 ~ 10/26	Measured value	MV
ноккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	0.05	IMI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	tr(0.02)	HV
Баррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/19$	11(0.02)	11 V
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \approx 10/21$ $10/11 \sim 10/12$	0.04	HV
Twate Tiel.	3	Sugo Ali Quality Mollitoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	0.04	11 V
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment	$\frac{10/13 \sim 10/14}{10/26 \sim 11/2}$	0.11	MV
Miyagi Prei.	4	(Sendai City)	10/20 ~ 11/2	0.11	IVI V
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	0.09	MV
-		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	0.10	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	0.28	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	0.08	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.36	HV
Č		, , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	0.48	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	0.30	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	0.28	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	0.11	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	0.24	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	0.21	MV
-		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	0.09	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.33	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	0.07	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	1.8	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	0.19	HV
			10/27 ~ 10/28		
	Ì	1	10/28 ~ 10/29		

Local communities	No.	o. Monitored sites	Warm season		Air sampler
	INO.		Sampling dates	Measured value	
Kobe City 21	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	0.16	HV
·		(Kobe City)	10/19 ~ 10/20		
		()	10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	0.15	HV
Nata 1 ICI.		Tenii An Quanty Monitoring Station (Tenii City)	$11/13 \sim 11/10$ $11/16 \sim 11/17$	0.13	11 V
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.04	HV
			11/17 ~ 11/18		
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	0.42	HV
			10/27 ~ 10/28	1	
			10/28 ~ 10/29	1	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	0.46	MV
r umagaem r rei.		Environment (Yamaguchi City)	10/1 10/0	0.10	111 1
		Environment (1 amaguem City)			
	26	H :H 14 1W16 C (H : C;)	10/1 10/0	0.22	3.637
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	0.32	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	0.16	HV
		Environmental Sciences Center (Tokushima City)	$11/9 \sim 11/10$		
			11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental	11/12 ~ 11/19	0.19	MV
8		Sciences and Public Health (Takamatsu City)		0.17	
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	0.09	HV
Ellillic I ICI.	23	(Uwajima City)	11/16 ~ 11/17	0.09	11 V
		(Owajiiia City)		-	
F.1. 1. P. 0	20	0	11/17 ~ 11/18	0.20	****
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.30	HV
			11/17 ~ 11/18		
			11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	0.14	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	0.05	HV
1201110111010 1 101.	52	Environmental Science (Udo City)	11/16 ~ 11/17	0.03	11 7
		Environmental Science (Odo City)		1	
M: 1:D 0	22	M: 1:D C / 17 // C D 11: 77 14 1	11/17 ~ 11/18	0.07	3.677
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	0.06	MV
		Environment (Miyazaki City)			
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	0.09	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	tr(0.03)	HV
Okiliawa i ici.		Cape 11000 (120111gailli village)	$9/28 \sim 9/29$		11 V
				-	
			9/29 ~ 9/30		

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

[1-5-2] 2,3,4,4',5-Pentachlorobiphenyl (#114) /air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 18/35 (Missing value: 0)
Detection Frequency (sample): 18/35 (Missing value: 0)

	Aggregated value
Geometric mean	nd
Median	tr(0.02)
Maximum	0.17
Minimum	nd

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	nd	MV
покканио	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	nd	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
Sapporo City		Sapporo Art rark (Sapporo City)	$10/19 \sim 10/19$ $10/19 \sim 10/20$	IIG	11 V
T . D C	_		10/20 ~ 10/21	1	****
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	nd	MV
	-	City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(0.02)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(0.03)	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.04)	HV
			11/9 ~ 11/10		
			$11/10 \sim 11/11$		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/25 ~ 11/1	tr(0.04)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(0.03)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(0.03)	HV
			$10/12 \sim 10/13$		
			$10/13 \sim 10/14$		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.02)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.02)	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	tr(0.02)	MV
-		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	nd	HV
J. 101.		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		-1.
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	tr(0.02)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.17	HV
		Annex (Osaka City)	10/26 ~ 10/27	* *	
			$10/20 - 10/27$ $10/27 \sim 10/28$		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/28$	nd	HV
11,050 1101.	20	11, 555 Treference Environmental Research Center (Robe City)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	114	11 *
			$10/27 \sim 10/28$		

Local communities	No.	Monitored sites	Warm	season	Air complor
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	nd	HV
•		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	nd	HV
1 (010 1 101)		romer in Quanty Homesting Station (15th 15th)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	nu nu	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	tr(0.04)	HV
Tillosiiilia City	24	Throshinia City Kokutaiji Junioi Tiigii School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	u(0.04)	11 V
** 1:5 0	2.5	Y I'D O I I'V I'V OD IIV Y II	10/28 ~ 10/29	(0.00)	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	tr(0.03)	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	tr(0.03)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(0.02)	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	(, , ,	
		\	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(0.03)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	nd	HV
Ellinic I Ici.	2)	(Uwajima City)	11/16 ~ 11/17	nu nu	11 4
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	tr(0.04)	HV
Tukuoka 11ci.	30	Official City Government Building (Official City)	11/17 ~ 11/18	11(0.04)	11 V
C D C	2.1		$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$. (0.02)	3.637
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	tr(0.02)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	nd	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		(,/	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	nd	MV
juzumi i 101.	33	Environment (Miyazaki City)	10/20 11/1		111 1
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	nd	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17]	
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30	j 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) 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

[1-5-3] 2,3',4,4',5-Pentachlorobiphenyl (#118) /air (pg/m³)

Monitored year: 2021

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

	Aggregated value
Geometric mean	0.38
Median	0.45
Maximum	5.4
Minimum	tr(0.06)

Local communities	No.	Monitored sites	Warm s		Air sampler
TT 11 '1	1		Sampling dates	Measured value	
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	0.12	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	tr(0.06)	HV
виррого Спу		Supporo Fitt Fair (Supporo City)	$10/19 \sim 10/20$	u(0.00)	111
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \sim 10/21$ $10/11 \sim 10/12$	0.09	HV
Iwate Frei.	3	Sugo Air Quanty Monitoring Station (Takizawa City)		0.09	п٧
			10/12 ~ 10/13		
			10/13 ~ 10/14	0.22	
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	0.33	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	0.25	MV
S		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	0.26	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	0.75	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	0.21	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.92	HV
S		, , , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	1.4	MV
Tononama eng	10	(Yokohama City)	10,20		1.1
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	0.97	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	0.73	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	0.29	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		, , , , , , , , , , , , , , , , , , , ,	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	0.67	HV
		Environment (Kofu City)	9/28 ~ 9/29		•
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	0.54	MV
ragano rien	15	(Nagano City)	10/23 11/1	0.51	171 7
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	0.23	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.77	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	0.19	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	5.4	HV
		Annex (Osaka City)	10/26 ~ 10/27	-	
			$10/27 \sim 10/28$		
** D 0	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/28$	0.54	HV
Hyoon Pret		111, one i rerectarar Entri Omnician rescalen Center (1800C City)	10/20 10/2/	0.57	11 4
Hyogo Pref.			10/27 ~ 10/28		

Sampling date Measured v.	ties No.	Local communities	Monitored sites		season	Air sampler
Nara Pref. 22 Tenri Air Quality Monitoring Station (Tenri City) 11/15 - 11/16 0.45	les No.	Local communities	Monitored sites	Sampling dates	Measured value	Air sampler
Nara Pref. 22 Tenri Air Quality Monitoring Station (Tenri City) 11/15 - 11/16 0.45	21	Kobe City	e City Institute of Health and Environmental Sciences	10/18 ~ 10/19	0.47	HV
Nara Pref. 22 Tenri Air Quality Monitoring Station (Tenri City) 11/15 ~ 11/16 0.45 11/16 ~ 11/17 11/17 ~ 11/18 11/17 ~ 11/18		•	en en en en en en en en en en en en en e	10/19 ~ 10/20	1	
Nara Pref. 22 Tenri Air Quality Monitoring Station (Tenri City) $11/15 \sim 11/16$ 0.45 Shimane Pref. 23 Oki National Acid Rain Observatory (Okinoshima Town) $11/16 \sim 11/17$ 0.13 Hiroshima City 24 Hiroshima City Kokutaiji Junior High School (Hiroshima City) $10/26 \sim 10/27$ $10/27 \sim 10/28$ Yamaguchi Pref. 25 Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City) $10/1 \sim 10/8$ 0.84 Tokushima Pref. 27 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City) $11/19 \sim 11/10$ 0.45 Kagawa Pref. 28 Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City) $11/10 \sim 11/10$ 0.57 Ehime Pref. 29 Ehime Prefectural Government Nanyo Regional Office (Uwajima City) $11/16 \sim 11/17$ 0.29 Fukuoka Pref. 30 Omuta City Government Building (Omuta City) $11/16 \sim 11/17$ 0.77 Fukuoka Pref. 31 Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ 0.40 Kumamoto Pref. 32 Kumamoto Prefectural Institute of Public Health and			-		1	
Shimane Pref. 23 Oki National Acid Rain Observatory (Okinoshima Town) 11/16 ~ 11/17 11/18 0.13	22	Nara Pref.	ri Air Quality Monitoring Station (Tenri City)		0.45	HV
Shimane Pref. 23 Oki National Acid Rain Observatory (Okinoshima Town) 11/16 - 11/17 11/18 11/19 11/17 - 11/18 11/18 - 11/19 11/19			True Quanty Memoring Sunton (19111 ett))		05	
Shimane Pref.23Oki National Acid Rain Observatory (Okinoshima Town) $\frac{11/16 - 11/17}{11/17 - 11/18}$ 0.13Hiroshima City24Hiroshima City Kokutaiji Junior High School (Hiroshima City) $\frac{10/26 \sim 10/27}{10/27 \sim 10/28}$ 1.1Yamaguchi Pref.25Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City) $\frac{10/1 \sim 10/8}{10/28 \sim 10/29}$ 0.84Zohashima Pref.26Hagi Health and Welfare Center (Hagi City) $\frac{10/1 \sim 10/8}{11/9 \sim 11/10}$ 0.54Tokushima Pref.27Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City) $\frac{11/8 \sim 11/9}{11/10 \sim 11/11}$ 0.45Kagawa Pref.28Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City) $\frac{11/12 \sim 11/19}{11/10 \sim 11/11}$ 0.57Ehime Pref.29Ehime Prefectural Government Nanyo Regional Office (Uwajima City) $\frac{11/16 \sim 11/17}{11/17 \sim 11/18}$ 0.29Fukuoka Pref.30Omuta City Government Building (Omuta City) $\frac{11/16 \sim 11/17}{11/17 \sim 11/18}$ 0.77Saga Pref.31Saga Prefectural Environmental Research Center (Saga City) $\frac{10/11 \sim 10/8}{11/16 \sim 11/17}$ 0.40Kumamoto Pref.32Kumamoto Prefectural Institute of Public Health and Environment (Miyazaki City) $\frac{11/16 \sim 11/17}{11/17 \sim 11/18}$ 0.14Miyazaki Pref.33Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $\frac{10/25 \sim 11/1}{11/17 \sim 11/18}$ 0.15						
Hiroshima City 24 Hiroshima City Kokutaiji Junior High School (Hiroshima City) $10/26 \sim 10/27$ $10/28 \sim 10/28$ $10/28 \sim 10/28$ $10/28 \sim 10/29$ 25 Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City) $10/1 \sim 10/8$ 0.84 $10/28 \sim 10/29$ 26 Hagi Health and Welfare Center (Hagi City) $10/1 \sim 10/8$ 0.54 $10/1 \sim 10/8$ $10/1 \sim 10/1$ $10/1 \sim 10/8$ $10/1 \sim 10/1$ $10/1$. 23	Shimona Draf	National Acid Pain Observatory (Okinoshima Town)		0.13	HV
Hiroshima City 24 Hiroshima City Kokutaiji Junior High School (Hiroshima City)	. 23	Similatic 1 ici.	rational Acid Rain Goscivatory (Okinoshina Town)		0.13	11 V
Hiroshima City 24 Hiroshima City Kokutaiji Junior High School (Hiroshima City) $10/26 \sim 10/27$ $10/27 \sim 10/28$ $10/28 \sim 10/29$ 1.1 Yamaguchi Pref. 25 Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City) $10/1 \sim 10/8$ 0.84 Zokushima Pref. 26 Hagi Health and Welfare Center (Hagi City) $10/1 \sim 10/8$ 0.54 Tokushima Pref. 27 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City) $11/9 \sim 11/10$ $11/10 \sim 11/11$ 0.45 Kagawa Pref. 28 Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City) $11/12 \sim 11/19$ 0.57 0.57 Ehime Pref. 29 Ehime Prefectural Government Nanyo Regional Office (Uwajima City) 0.29 0.29 Fukuoka Pref. 30 Omuta City Government Building (Omuta City) 0.29 0.29 Fukuoka Pref. 31 Saga Prefectural Environmental Research Center (Saga City) 0.40 Kumamoto Pref. 32 Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) 0.40 Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $0.10/25 \sim 11/1$ 0.15						
Yamaguchi Pref. 25 Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	24	Hirochima City	shima City Valgutaiii Inniar High Sahaal (Hirashima City)		1 1	HV
Yamaguchi Pref. 25 Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City) 10/1 ~ 10/8 0.84	y 24	Hiroshima City	shima City Kokutaiji Junior High School (Hiroshima City)		1.1	п٧
Yamaguchi Pref.25Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City) $10/1 \sim 10/8$ 0.84 26Hagi Health and Welfare Center (Hagi City) $10/1 \sim 10/8$ 0.54 Tokushima Pref.27Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City) $11/8 \sim 11/9$ $11/9 \sim 11/10$ 0.45 Kagawa Pref.28Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City) $11/12 \sim 11/19$ 0.57 Ehime Pref.29Ehime Prefectural Government Nanyo Regional Office (Uwajima City) $11/16 \sim 11/17$ $11/17 \sim 11/18$ 0.29 Fukuoka Pref.30Omuta City Government Building (Omuta City) $11/16 \sim 11/17$ $11/18 \sim 11/19$ 0.77 Saga Pref.31Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ 0.40 Kumamoto Pref.32Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $11/16 \sim 11/17$ $11/17 \sim 11/18$ 0.14 Miyazaki Pref.33Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $10/25 \sim 11/1$ 0.15					,	
Environment (Yamaguchi City) 26 Hagi Health and Welfare Center (Hagi City) 10/1 ~ 10/8 0.54	0 0.5	** 1:5 0	1170 0 117 117 177 17		2.24	
Tokushima Pref. 27 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City) $\frac{11/9 \sim 11/10}{11/10 \sim 11/10}$ Kagawa Pref. 28 Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City) $\frac{11/10 \sim 11/10}{11/10 \sim 11/11}$ Ehime Pref. 29 Ehime Prefectural Government Nanyo Regional Office (Uwajima City) $\frac{11/16 \sim 11/17}{11/17 \sim 11/18}$ Fukuoka Pref. 30 Omuta City Government Building (Omuta City) $\frac{11/16 \sim 11/17}{11/17 \sim 11/18}$ Saga Pref. 31 Saga Prefectural Environmental Research Center (Saga City) $\frac{10/1 \sim 10/8}{11/16 \sim 11/17}$ Kumamoto Pref. 32 Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $\frac{11/16 \sim 11/16}{11/16 \sim 11/17}$ Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City) $\frac{11/16 \sim 11/16}{11/17 \sim 11/18}$ O.15	i. 25	Yamaguchi Pref.		10/1 ~ 10/8	0.84	MV
Environmental Sciences Center (Tokushima City)	26		i Health and Welfare Center (Hagi City)	10/1 ~ 10/8	0.54	MV
Environmental Sciences Center (Tokushima City)	ef. 27	Tokushima Pref.	ushima Prefectural Public Health. Pharmaceutical and	11/8 ~ 11/9	0.45	HV
Kagawa Pref. 28 Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)			· · · · · · · · · · · · · · · · · · ·		1	
Kagawa Pref.28Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City) $11/12 \sim 11/19$ 0.57 Ehime Pref.29Ehime Prefectural Government Nanyo Regional Office (Uwajima City) $11/16 \sim 11/17$ $11/17 \sim 11/18$ 0.29 Fukuoka Pref.30Omuta City Government Building (Omuta City) $11/16 \sim 11/17$ $11/17 \sim 11/18$ $11/18 \sim 11/19$ 0.77 Saga Pref.31Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ 0.40 Kumamoto Pref.32Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $11/16 \sim 11/17$ $11/17 \sim 11/18$ 0.14 $11/17 \sim 11/18$ Miyazaki Pref.33Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $10/25 \sim 11/1$ 0.15					20202000	
Comparison of the compariso	28	Kagawa Pref.			0.57	MV
Comparison of the compariso	20	Ehima Praf	na Prafactural Government Nanya Pagional Office	11/15 - 11/16	0.29	HV
Fukuoka Pref. 30 Omuta City Government Building (Omuta City)	29	Ellillic I ICI.			0.29	11 V
Fukuoka Pref.30Omuta City Government Building (Omuta City) $11/16 \sim 11/17$ $11/17 \sim 11/18$ $11/18 \sim 11/19$ 0.77Saga Pref.31Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ 0.40Kumamoto Pref.32Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $11/15 \sim 11/16$ $11/16 \sim 11/17$ $11/17 \sim 11/18$ 0.14Miyazaki Pref.33Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $10/25 \sim 11/1$ 0.15			ajiiia City)		}	
Saga Pref. 31 Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ 0.40 Kumamoto Pref. 32 Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $11/16 \sim 11/16$ 0.14 Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Healthand $11/17 \sim 11/18$ 0.15	20	Eulmalia Deaf	yta City Cayramanant Building (Omyta City)		0.77	HV
Saga Pref. 31 Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ 0.40 Kumamoto Pref. 32 Kumamoto Prefectural Institute of Public Health and $11/15 \sim 11/16$ 11/16 11/17 11/17 11/17 11/18 Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Healthand $10/25 \sim 11/1$ 0.15	. 30	rukuoka Prei.	na City Government Building (Omuta City)		0.77	п٧
Saga Pref. 31 Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ 0.40 Kumamoto Pref. 32 Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $11/15 \sim 11/16$ 0.14 Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $10/25 \sim 11/1$ 0.15				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Kumamoto Pref. 32 Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $\frac{11/15 \sim 11/16}{11/16 \sim 11/17}$ 0.14 Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $\frac{10/25 \sim 11/1}{10/25 \sim 11/1}$ 0.15		G D C	D. C I.E		0.40	107
Environmental Science (Udo City)	31	Saga Pref.	i Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	0.40	MV
Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Healthand $10/25 \sim 11/1$ 0.15 Environment (Miyazaki City)	ef. 32	Kumamoto Pref.	namoto Prefectural Institute of Public Health and	11/15 ~ 11/16	0.14	HV
Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Healthand $10/25 \sim 11/1$ 0.15 Environment (Miyazaki City)			ronmental Science (Udo City)	11/16 ~ 11/17		
Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Healthand $10/25 \sim 11/1$ 0.15 Environment (Miyazaki City)				11/17 ~ 11/18	1	
Kagoshima Pref. 34 Kagoshima Prefectural Institute for Environmental Research 11/15 ~ 11/16 0.25	33	Miyazaki Pref.			0.15	MV
	ef. 34	Kagoshima Pref.	oshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	0.25	HV
and Public Health (Kagoshima City) 11/16 ~ 11/17					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
11/17 ~ 11/18			(
Okinawa Pref. 35 Cape Hedo (Kunigami Village) 9/27 ~ 9/28 tr(0.07)	35	Okinowa Pref	a Hado (Kunigami Villaga)		tr(0.07)	HV
Okinawa Prei. 33 Cape riedo (Kuniganii Vinage) 9/27 ~ 9/28 ur(0.07) 9/28 ~ 9/29	. 33	OKIIIAWA FICI.	2 11000 (Eunigaini vinage)		u(0.07)	11 V
$9/28 \sim 9/29$ $9/29 \sim 9/30$						

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

[1-5-4] 2',3,4,4',5-Pentachlorobiphenyl (#123) /air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 28/35 (Missing value: 0)
Detection Frequency (sample): 28/35 (Missing value: 0)

	Aggregated value
Geometric mean	tr(0.01)
Median	tr(0.01)
Maximum	0.10
Minimum	nd

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	$10/19 \sim 10/26$	nd	MV
Trominato	-	(Managana Chij)	10/15 10/20		1,1,
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
виррого спу	_	Support First and (Support City)	$10/19 \sim 10/20$	iid	11 1
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/11 \sim 10/12$	nd	HV
Twate 1 Ici.	3	Sugo Ali Quanty Monitoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	IIG	11 V
) (:	_	Maria Daniel de la Contra de la	10/13 ~ 10/14	. (0.01)	3.67
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	tr(0.01)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.01)	MV
		City)		` ′	
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(0.01)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(0.02)	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(0.01)	MV
				` ′	
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.03)	HV
8		(),	11/9 ~ 11/10	(* ***)	
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/1$	0.04	MV
i okonama enty	10	(Yokohama City)	10/25 11/1	0.04	141 4
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(0.03)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(0.02)	HV
•			10/12 ~ 10/13	, ,	
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.01)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29	(, ,	
		7/	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	$9/27 \sim 9/28$	tr(0.01)	HV
- 3	• •	Environment (Kofu City)	9/28 ~ 9/29	(0.01)	11 ,
		Environment (Rota City)	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	tr(0.02)	MV
Nagano Fiei.	13	(Nagano City)	10/23 ~ 11/1	ti(0.02)	IVI V
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	nd	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
		(ganata etty)	11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	tr(0.01)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	tr(0.01)	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.10	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/27$	tr(0.01)	HV
11,050 1101.			$10/20 - 10/27$ $10/27 \sim 10/28$	(0.01)	11 1

Local communities	No.	Monitored sites	Warm	season	Air complor
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(0.02)	HV
•		(Kobe City)	10/19 ~ 10/20	` ′	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.01)	HV
		Tomittin Quanty Monitoring Station (15mm city)	11/16 ~ 11/17	12(0.01)	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	nu nu	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	tr(0.02)	HV
Tillosiiilia City	24	Throshinia City Kokutaiji Junioi Tiigii School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	u(0.02)	11 V
1: D C	25	TY 1'D C 4 1Y 2'4 CD 11' TY 11 1	10/28 ~ 10/29	. (0.02)	3.67
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	tr(0.02)	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	tr(0.01)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(0.01)	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	(, , ,	
		***************************************	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(0.01)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(0.01)	HV
Ellillic I Ici.	2)	(Uwajima City)	11/16 ~ 11/17	11(0.01)	11 V
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	tr(0.03)	HV
rukuoka riei.	30	Official City Government Building (Official City)	11/10 ~ 11/17	u(0.03)	11 V
C D C	2.1		$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$. (0.01)	3.637
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	tr(0.01)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(0.01)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	(1, 4-)	
		` <i>''</i>	11/17 ~ 11/18	j	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.01)	HV
ragosiiiia i ici.	37	and Public Health (Kagoshima City)	$11/13 \sim 11/10$ $11/16 \sim 11/17$	11(0.01)	11 4
		and I done Health (Nagosinina City)			
Okinawa Pref.	25	Cone Hade (Vymicemi Village)	11/17 ~ 11/18	n.d	HV
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	нv
			9/28 ~ 9/29		
	l		9/29 ~ 9/30	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

[1-5-5] 3,3',4,4',5-Pentachlorobiphenyl (#126) /air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 2/35 (Missing value: 0)
Detection Frequency (sample): 2/35 (Missing value: 0)

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(0.04)
Minimum	nd

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	nd	MV
Hokkuldo	•	Samuel General Suspiner Central Bareau (Flancounte City)	10/19 10/20	nu	111 1
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
виррого спу	_	Support That (Support City)	$10/19 \sim 10/20$	na	111
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/11 \sim 10/12$	nd	HV
Twate Tiel.	3	Sugo Tin Quanty Monitoring Station (Takizawa City)	10/12 ~ 10/13	nd	11 4
			10/12 - 10/13 $10/13 \sim 10/14$		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment	$10/26 \sim 11/2$	nd	MV
wiiyagi i ici.		(Sendai City)	10/20 - 11/2	nd	1 V1 V
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	nd	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	nd	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	nd	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
J		, , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	nd	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
		Environment (Kofu City)	9/28 ~ 9/29		
	L		9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	nd	MV
		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	nd	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	nd	HV
		Annex (Osaka City)	$10/26 \sim 10/27$		
			$10/27 \sim 10/28$		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	nd	HV
			10/27 ~ 10/28		
	ı		10/28 ~ 10/29		

Local communities	No.	Monitored sites		season	Air sampler
Local communities	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	nd	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21]	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	nd	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
		, , , , , , , , , , , , , , , , , , ,	11/17 ~ 11/18]	
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	tr(0.03)	HV
•		, , , , , , , , , , , , , , , , , , , ,	10/27 ~ 10/28	i i	
			10/28 ~ 10/29	ĺ	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	nd	MV
		Environment (Yamaguchi City)			
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	nd	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	Ì	
		•	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	nd	HV
Emme Trei.	2)	(Uwajima City)	11/16 ~ 11/17	nu nu	11 V
		(Owajina Orty)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	tr(0.04)	HV
i ukuoku i ici.	50	Omata City Government Building (Omata City)	11/17 ~ 11/18	4(0.04)	11 4
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	nd	MV
W + D C	22	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	1	1137
Kumamoto Pref.	32			nd	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
M: 1:D C	22	M: 1:D C + 11 ('+ C D 11' II 14 1	11/17 ~ 11/18	1	207
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	nd	HV
-		and Public Health (Kagoshima City)	11/16 ~ 11/17	1	
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29	1	
	l		9/29 ~ 9/30	i I	

⁽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: 2021

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

	Aggregated value
Geometric mean	2.1
Median	2.2
Maximum	22
Minimum	0.46

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates 10/19 ~ 10/26	0.70	MV
ноккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	0.70	MIV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	0.46	HV
заррого Спу		Sapporo Art Fark (Sapporo City)	$10/18 \sim 10/19$ $10/19 \sim 10/20$	0.40	11 V

T 4 D C	_	G A' O I' M ' C C C (T I C)	10/20 ~ 10/21	0.62	1137
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	0.63	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	1.6	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	2.3	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	1.2	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	3.4	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	0.89	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	3.8	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	5.5	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	22	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	$10/11 \sim 10/12$	3.2	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	1.6	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	3.0	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	2.2	MV
S		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	1.3	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	3.2	MV
M. D. C	10	M. D. C. H. H. LD. L. D. L. D. L. L. L. L. L. L. L. L. L. L. L. L. L.	10/10 10/10	0.00	***
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	0.88	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	21	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	2.3	HV
			10/27 ~ 10/28		
	Ī		10/28 ~ 10/29		

Local communities	No	No. Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	2.5	HV
·		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	2.2	HV
		romer in Quanty Homesting Station (15th 15th)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.81	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	0.61	11 v
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	5.1	HV
Tillosiiilia City	24	Throshinia City Kokutaiji Junioi Tiigii School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	5.1	11 V
** 1:5 0	2.5	Y I'D O I I'V I'V OD II' Y II	10/28 ~ 10/29	2.0	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	2.9	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	2.1	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	3.0	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		\	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	2.7	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	1.5	HV
Ellillic I Ici.	2)	(Uwajima City)	11/16 ~ 11/17	1.5	11 V
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	14	HV
Tukuoka 11ci.	30	Official City Government Building (Official City)	11/17 ~ 11/18	17	11 V
Saga Pref.	2.1	Saga Prefectural Environmental Research Center (Saga City)	$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$	1.9	MV
Saga Prei.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	1.9	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	0.82	HV
	-	Environmental Science (Udo City)	11/16 ~ 11/17	1 0.02	
			11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	0.88	MV
, uzumi 1 101.	55	Environment (Miyazaki City)	10,20 11/1	0.00	141 4
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	1.8	HV
=		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	0.51	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30	ĺ	

⁽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

[1-6-1] 2,3,3',4,4',5-Hexachlorobiphenyl (#156) /air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 29/35 (Missing value: 0)
Detection Frequency (sample): 29/35 (Missing value: 0)

	Aggregated value
Geometric mean	tr(0.03)
Median	tr(0.03)
Maximum	0.22
Minimum	nd

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates $10/19 \sim 10/26$		MV
ноккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	tr(0.02)	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
виррого спу	_	Supporo Art Lark (Supporo City)	$10/19 \sim 10/20$	na	11 V
			$10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \approx 10/21$ $10/11 \sim 10/12$	nd	HV
Iwate Frei.	3	Sugo Air Quanty Monitoring Station (Takizawa City)		na	пν
			10/12 ~ 10/13		
			10/13 ~ 10/14	(0.00)	
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	tr(0.02)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.02)	MV
-		City)		, ,	
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(0.02)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	0.05	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(0.02)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.03)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/25 ~ 11/1	0.06	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	0.15	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	$10/11 \sim 10/12$	0.05	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.03)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.03)	HV
		Environment (Kofu City)	9/28 ~ 9/29		
		` "	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	tr(0.03)	MV
ragano rran	10	(Nagano City)	10,20	4(0.05)	112 1
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(0.02)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.06	MV
Mi- P. C	10	Mis Dufferton Heelsh and Davis	10/10 10/10	1	****
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.22	HV
		Annex (Osaka City)	$10/26 \sim 10/27$		
	L		$10/27 \sim 10/28$		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	tr(0.03)	HV
. •			10/27 ~ 10/28		
	1		10/28 ~ 10/29		

Local communities	No.	Monitored sites	Warm season		Air sampler
Local communities	100.	ivionitored sites	Sampling dates	Measured value	Air sampier
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(0.03)	HV
·		(Kobe City)	10/19 ~ 10/20	ì í	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.04)	HV
11414 11011		romer in Quanty Homesting Station (15th 15th)	11/16 ~ 11/17	2(0.0.)	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	nu nu	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	0.07	HV
Throshina City	24	Throshinia City Kokutaiji Junioi Tiigh School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	0.07	11 V
1: D C	25	Y 1'D 0 1 1 1 1 1 1 1 1	10/28 ~ 10/29	0.05	107
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	0.05	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	tr(0.04)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	$11/8 \sim 11/9$ tr(0.02)	tr(0.02)	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	i ` ′	
		`	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(0.03)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(0.02)	HV
Emme 1 let.	2)	(Uwajima City)	11/16 ~ 11/17	11(0.02)	111
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.12	HV
Tukuoka 11ci.	30	Official City Government Building (Official City)	11/17 ~ 11/18	0.12	11 V
Saga Pref.	2.1	Saga Prefectural Environmental Research Center (Saga City)	$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$	tr(0.02)	MV
Saga Prei.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	tr(0.02)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(0.02)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		•	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.03)	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17	` ′	
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
		(9/28 ~ 9/29		11 ,
			9/29 ~ 9/30	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

[1-6-2] 2,3,3',4,4',5'-Hexachlorobiphenyl (#157) /air (pg/m³)

Monitored year : 2021

Detection Frequency (site): 26/35 (Missing value: 0)
Detection Frequency (sample): 26/35 (Missing value: 0)

	Aggregated value
Geometric mean	tr(0.01)
Median	tr(0.01)
Maximum	0.10
Minimum	nd

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	nd	MV
Hokkaido	1	Osinina General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	nu	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
support enj	_	Support First and (Support City)	$10/19 \sim 10/20$	iid	11 1
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/11 \sim 10/12$	nd	HV
Twate 1 Ici.	3	Sugo Ali Quanty Monitoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	IIG	11 V
) () D (_	Maria Daniel de la Contra de la	10/13 ~ 10/14	1	3.67
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.01)	MV
		City)		` ′	
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(0.01)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(0.01)	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(0.01)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.01)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	tr(0.02)	MV
•		(Yokohama City)		, ,	
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	0.10	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(0.01)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.01)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29	` '	
)	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.01)	HV
		Environment (Kofu City)	9/28 ~ 9/29	` ′	
)	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	tr(0.01)	MV
ragane rren	10	(Nagano City)	10/20 11/1	(0.01)	111 1
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(0.01)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10	• /	
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	tr(0.02)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.06	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/27$	tr(0.01)	HV
11,050 1101.			$10/20 - 10/27$ $10/27 \sim 10/28$	(0.01)	11 1

Local communities	No	No. Monitored sites	Warm season		Air sampler
Local communities	INO.	Wontored Sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(0.01)	HV
·		(Kobe City)	10/19 ~ 10/20	ì í	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.01)	HV
11414 11011		Tomit in Quality Monitoring Station (Tomit Stoy)	11/16 ~ 11/17	11(0.01)	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	nu nu	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	tr(0.02)	HV
Tillosiiilia City	24	Throshinia City Kokutaiji Junioi Tiigii School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	u(0.02)	11 V
1: D C	25	TY 1'D C 4 1Y 2'4 CD 11' TY 11 1	10/28 ~ 10/29	. (0.02)	107
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	tr(0.02)	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	tr(0.01)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	9 tr(0.01)	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	i ` ′	
		•	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(0.01)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	nd	HV
2		(Uwajima City)	11/16 ~ 11/17		
		(,,)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.05	HV
i ukuoku i ici.	30	omata city deverminent Banding (omata city)	11/17 ~ 11/18	0.03	11 1
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	tr(0.01)	MV
5					
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(0.01)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	1 ` ' /	
		` <i>''</i>	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	10/25 ~ 11/1	nd	MV
,		Environment (Miyazaki City)			
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.01)	HV
=		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30		

⁽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: 2021

Detection Frequency (site): 29/35 (Missing value: 0)
Detection Frequency (sample): 29/35 (Missing value: 0)

	Aggregated value
Geometric mean	tr(0.01)
Median	tr(0.01)
Maximum	0.14
Minimum	nd

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates $10/19 \sim 10/26$		MV
ноккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	tr(0.01)	MIV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
Баррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	na	11 V
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Iwate Pref.	2	Constant Air Constitute Manifestina Chatian (Talainana Cita)		1	HV
Iwate Prei.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	nd	нv
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	tr(0.01)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.01)	MV
S		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(0.01)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(0.03)	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(0.01)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.02)	HV
_			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	tr(0.03)	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	0.14	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(0.02)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.01)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29	` /	
		•	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.01)	HV
		Environment (Kofu City)	9/28 ~ 9/29	` '	
		(),	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	tr(0.01)	MV
ragano rien	13	(Nagano City)	10/23 11/1	11(0.01)	171 7
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(0.01)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10	` ′	
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	tr(0.02)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	tr(0.01)	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.10	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	tr(0.01)	HV
, ,		(10/27 ~ 10/28	` ′	

Local communities	No.	No. Monitored sites	Warm season		Air sampler
	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(0.02)	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.01)	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
		, , , , , , , , , , , , , , , , , , ,	11/17 ~ 11/18]	
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	tr(0.03)	HV
•		, , , , , , , , , , , , , , , , , , , ,	10/27 ~ 10/28	i i	
			10/28 ~ 10/29	ĺ	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	tr(0.02)	MV
T WILLIAM TO THE	20	Environment (Yamaguchi City)	10/1 10/0	u(0102)	1.2 1
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	tr(0.02)	MV
Tokushima Pref.	shima Pref. 27 Tokushima Prefectural Public Health. 1	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(0.01)	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	ì í	
		•	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(0.02)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(0.01)	HV
Emme 1 ter.	2)	(Uwajima City)	11/16 ~ 11/17	4(0.01)	11 V
		(Cwajina City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.04	HV
i ukuoku i ici.	50	Omata City Government Building (Omata City)	11/17 ~ 11/18	0.04	11 4
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	tr(0.01)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	nd	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
) (1 1 1 2 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1			11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.01)	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17	1 ` ´ I	
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
		1 - (9/28 ~ 9/29		
			9/29 ~ 9/30	1	

⁽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: 2021

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

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	nd	MV
11011111110		Communication Supported and Communication Conference Co	10/15 10/20		112 1
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
виррого спу		Supporo Art Lark (Supporo City)	$10/19 \sim 10/20$	nd	11 V
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/11 \sim 10/12$	nd	HV
Twate Tiel.		Sugo in Quanty Monitoring Station (TualZuwa City)	10/12 ~ 10/13	na	11.
			10/12 - 10/13 $10/13 \sim 10/14$		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment	$10/26 \sim 11/2$	nd	MV
wiiyagi i ici.		(Sendai City)	10/20 11/2	Hu	141 4
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	nd	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	nd	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	nd	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	nd	MV
·		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	nd	HV
			$10/12 \sim 10/13$		
			$10/13 \sim 10/14$		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	$10/11 \sim 10/12$	nd	HV
			$10/12 \sim 10/13$		
			$10/13 \sim 10/14$		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	nd	MV
		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	nd	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	nd	MV
- 10° 5° °	1.0	Mr. D. G W. H L	10/10 10/10		
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	nd	HV
		Annex (Osaka City)	10/26 ~ 10/27		
	_		10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	nd	HV
			10/27 ~ 10/28		
	1		$10/28 \sim 10/29$		

Local communities	No	No. Monitored sites		season	Air sampler
Local communities	INU.	iviointoled sites	Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	nd	HV
•		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	nd	HV
		(()	11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
Similane 1 ter.	23	Oktivational relation observatory (Oktivosimila Town)	11/17 ~ 11/18	ind ind	11 4
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	nd	HV
Tillosiiilia City	24	Timosinina City Kokutaiji Junioi Tiigii School (Tinosinina City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$, IIG	11 V
			$10/27 \sim 10/28$ $10/28 \sim 10/29$		
37 1:D C	25	Y 1'D C (11 C) (CD 11' II 14 1		1	147
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	nd	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	İ	
		•	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	nd	HV
Ellillic I Ici.	23	(Uwajima City)	11/16 ~ 11/17	, IIG	11 V
		(Owajima City)	11/17 ~ 11/17		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	$11/17 \sim 11/18$ $11/16 \sim 11/17$	nd	HV
rukuoka Piei.	30	Omuta City Government Building (Omuta City)	$\frac{11/16 \sim 11/17}{11/17 \sim 11/18}$	na	п٧
	2.1		11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	nd	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		····· (···y)	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	10/25 ~ 11/1	nd	MV
1.11 y uzuki 1 101.	55	Environment (Miyazaki City)	10/25 - 11/1	ind	1 V1 V
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	nd	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
		1 (9/28 ~ 9/29	1	
		(aits) is bessed on the number of sites, thus means (the number of dates	9/29 ~ 9/30		

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

(Note 4) nd: Not detected

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

⁽Note 3) HV: High volume air sampler , MV: Medium volume air sampler.

[1-7] Heptachlorobiphenyls/air (pg/m³)

Monitored year: 2021

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

	Aggregated value
Geometric mean	0.45
Median	0.41
Maximum	14
Minimum	0.11

Local communities	No.	Monitored sites	Warm s		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	0.14	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	0.11	HV
Sapporo City		Sapporo Art Fark (Sapporo City)	$10/18 \sim 10/19$ $10/19 \sim 10/20$	0.11	11 V
I (D C	_		10/20 ~ 10/21	0.12	1137
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	0.12	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	0.26	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	0.86	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	0.18	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	0.55	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	0.17	MV
		Similar (Sanda (Sandarata Village)	11// 11/17	0.17	141 4
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.77	HV
Tanaga wa 1101	_	Training and Environmental resourch content (Timusuna City)	11/9 ~ 11/10	0.,,	
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/11$	0.82	MV
Tokonama City	10	(Yokohama City)	10/23 11/1	0.02	IVI V
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	14	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	0.68	HV
•		3	10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	0.36	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		`	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	0.32	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	0.27	MV
		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	0.30	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10	*	
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.74	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	0.15	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	3.3	HV
		Annex (Osaka City)	10/26 ~ 10/27		
		· · · · · · · · · · · · · · · · · · ·	10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/27$	0.41	HV
, ,		(.2000 01.9)	10/27 ~ 10/28		

Local communities	No.	Monitored sites		season	Air sampler
	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	0.50	HV
		(Kobe City)	10/19 ~ 10/20		
			$10/20 \sim 10/21$		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	0.46	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.11	HV
			11/17 ~ 11/18		
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	0.84	HV
•			10/27 ~ 10/28	1	
			10/28 ~ 10/29	Ì	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	0.74	MV
S		Environment (Yamaguchi City)			
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	0.57	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	0.87	HV
101140111114111411		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	0.07	
		Zivinominomin Solomos Comos (Tomasimina City)	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	0.61	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	0.28	HV
Elillie Tiel.		(Uwajima City)	11/16 ~ 11/17	0.20	11 1
		(Cwajina City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	8.2	HV
I ukuoku I ICI.	50	omata city deverminent Banding (omata city)	11/17 ~ 11/18	0.2	11 1
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	0.34	MV
V	22		11/15 11/16	0.10	
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	0.19	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
1: D 0	22	At 1:D C . II die C D II II II	11/17 ~ 11/18	0.10	107
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	0.18	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	0.62	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18]	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	0.13	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30	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.

[1-7-1] 2,2',3,3',4,4',5-Heptachlorobiphenyl (#170) /air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 30/35 (Missing value: 0)
Detection Frequency (sample): 30/35 (Missing value: 0)

	Aggregated value
Geometric mean	tr(0.04)
Median	tr(0.04)
Maximum	1.0
Minimum	nd

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates 10/19 ~ 10/26	tr(0.02)	MV
ноккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	tr(0.02)	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
виррого спу		Supporo Fitt Fair (Supporo City)	$10/19 \sim 10/20$	na	11 4
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \sim 10/21$ $10/11 \sim 10/12$	nd	HV
Iwate Frei.	3	Sugo Air Quanty Monitoring Station (Takizawa City)		na	пν
			10/12 ~ 10/13		
			10/13 ~ 10/14	(0.00)	
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	tr(0.02)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	0.07	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(0.02)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(0.05)	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(0.02)	MV
- T			11/0 11/0	(0.05)	
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.05)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11	2.05	
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/25 ~ 11/1	0.09	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	1.0	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	$10/11 \sim 10/12$	tr(0.05)	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.04)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.03)	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	tr(0.04)	MV
6		(Nagano City)		()	
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(0.03)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.08	MV
Mio Prof	10	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	tr(0.02)	HV
Mie Pref.	18			tr(0.02)	нv
		(Yokkaichi City)	10/19 ~ 10/20		
	<u> </u>		10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.26	HV
		Annex (Osaka City)	$10/26 \sim 10/27$		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	tr(0.04)	HV
			10/27 ~ 10/28		
	I		10/28 ~ 10/29		

Local communities	No.	Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	nd	HV
·		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.04)	HV
11414 11011		Tomit in Quality Memoring Station (Tomit Stoy)	11/16 ~ 11/17	11(0.0.1)	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	ilu i	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	0.08	HV
mirosiiina City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$ $10/27 \sim 10/28$	0.08	пν
				,	
** 1:5 0	2.5	Y I'D O I I'V I'V OD II' Y II	10/28 ~ 10/29	0.00	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	0.08	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	0.06	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	0.06	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		\	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(0.05)	MV
Ehime Pref.	29	29 Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(0.03)	HV
Emme 1 let.	2)	(Uwajima City)	11/16 ~ 11/17	4(0.03)	111
		(Cwajina Chy)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.52	HV
i ukuoka i ici.	30	Omata City Government Building (Omata City)	11/17 ~ 11/18	0.32	11 v
			11/17 ~ 11/18	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	tr(0.03)	MV
Saga Prei.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	ir(0.03)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(0.02)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	-(
		· (y)	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	tr(0.02)	MV
, uzum 1101.	33	Environment (Miyazaki City)	13/23 11/1	4(0.02)	111 1
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.05)	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17]	
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29	j l	
			9/29 ~ 9/30	j 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) 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: 2021

Detection Frequency (site): 31/35 (Missing value: 0)
Detection Frequency (sample): 31/35 (Missing value: 0)

	Aggregated value
Geometric mean	0.07
Median	0.06
Maximum	2.8
Minimum	nd

Local communities	No.	Monitored sites	Warm s		Air sampler
TT 11 '1	1		Sampling dates	Measured value	107
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	tr(0.03)	MV
G C:t	2	Company And Production (Company City)	10/19 10/10	4::(0,02)	HV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	tr(0.02)	ΗV
			10/19 ~ 10/20		
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	tr(0.02)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment	$10/26 \sim 11/2$	tr(0.04)	MV
		(Sendai City)			
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	0.14	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	nd	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	0.07	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(0.04)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.12	HV
•		, , , , , , , , , , , , , , , , , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	0.14	MV
Tenenana eng	10	(Yokohama City)	10,20	0111	112 1
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	2.8	HV
-			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	0.11	HV
,			10/12 ~ 10/13		
			$10/13 \sim 10/14$		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	0.05	HV
Ishikawa I Ici.	13	Environmental Science (Kanazawa City)	9/28 ~ 9/29	0.03	11 4
		Environmental Science (Ranazawa City)	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	$9/29 \sim 9/30$ $9/27 \sim 9/28$	nd	HV
ı amanasın Fivl.	14	Environment (Kofu City)	$9/27 \sim 9/28$ $9/28 \sim 9/29$	IIU	п٧
		Environment (Rotu City)	$9/28 \sim 9/29$ $9/29 \sim 9/30$		
Manage Burk	1.5	None Emiliar months Comment in Donath Institute	77 7.00	0.05	MV
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	10/25 ~ 11/1	0.05	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	0.05	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.15	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			$10/20 \sim 10/21$		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.55	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	0.07	HV
			10/27 ~ 10/28		

Local communities	No	No. Monitored sites		season	Air sampler
	140.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	0.08	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	0.06	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	tr(0.02)	HV
Similanc Trei.	23	Oki i vational relativami observatory (Okinosimia Town)	11/17 ~ 11/18	11(0.02)	11 1
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	0.12	HV
Tillosiilila City	24	Throshinia City Kokutaiji Junioi Tiigii School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	0.12	11 V
** 1:5 0	2.5	Y	10/28 ~ 10/29	0.15	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	0.17	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	0.12	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	0.13	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
		•	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	0.11	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	0.05	HV
Ellillic I ICI.	29	(Uwajima City)	11/16 ~ 11/17	0.03	11 V
		(Owajiiia City)		1	
Fukuoka Pref.	20	Omuta City Government Building (Omuta City)	11/17 ~ 11/18	1.5	HV
F икиока Pre I.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	1.5	HV
			11/17 ~ 11/18		
			$11/18 \sim 11/19$		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	0.05	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(0.02)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	\ \ \	
		//	11/17 ~ 11/18	j l	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	tr(0.03)	MV
1111/112411 1 101.	33	Environment (Miyazaki City)	10/20 11/1	u(0.03)	171 7
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	0.10	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17]	
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
		1 - (9/28 ~ 9/29		
			$9/29 \sim 9/30$		
		(cita) is based on the number of sites thus mesons (the number of dates		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) 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

[1-7-3] 2,3,3',4,4',5,5'-Heptachlorobiphenyl (#189) /air (pg/m³)

Monitored year : 2021

Detection Frequency (site): 7/35 (Missing value: 0)
Detection Frequency (sample): 7/35 (Missing value: 0)

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.04
Minimum	nd

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	nd	MV
Hokkaido	1	Osimiia General Suoprefectural Bureau (Hakodate City)	10/19 ~ 10/20	nd	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
заррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	IId	11 V
T . D C	_		10/20 ~ 10/21	1	****
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	nd	MV
i amagata Prei.	3	City)	10/8 ~ 10/13	nd	IVI V
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	nd	MV
ibaraki Piei.	0	City)	10/12 ~ 10/19	nd	IVI V
T-1 M-4	7	Talan Matana litas Danasah Indiana far Euriana and l	10/10 10/26	4	MXZ
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/19 ~ 10/26	nd	MV
		Trotection (Koto ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
8		, , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/1$	nd	MV
Tokonama City	10	(Yokohama City)	10/25 11/1	nu	IVI V
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	0.04	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	nd	HV
,			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.01)	HV
15111110000011011	10	Environmental Science (Kanazawa City)	9/28 ~ 9/29	4 (0.01)	
			$9/29 \sim 9/30$		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/29 ~ 9/30 9/27 ~ 9/28	nd	HV
i umunasmi i ici.	1-7	Environment (Kofu City)	$9/21 \sim 9/28$ $9/28 \sim 9/29$	IIG	11 V
		Environment (Rota City)	9/29 ~ 9/30		
Nagano Pref.	1.5	Nagano Environmental Conservation Research Institute	$9/29 \sim 9/30$ $10/25 \sim 11/1$	and a	MV
Nagano Prei.	15	(Nagano City)	10/23 ~ 11/1	nd	IVI V
Cify Past	14	Gifu Prefectural Research Institute for Health and	11/0 11/0	nd	1117
Gifu Pref.	16		11/8 ~ 11/9	nd	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
Nagary City	17	Chikusa Ward Heiwa Park (Nagoya City)	$11/10 \sim 11/11$ $10/19 \sim 10/26$		1437
Nagoya City	17	Cilikusa waru neiwa rark (inagoya City)	10/19 ~ 10/20	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
IVIIC I ICI.	10	(Yokkaichi City)	$10/18 \sim 10/19$ $10/19 \sim 10/20$	IIG	11 V
		(1 OKRAIOIII City)	$10/19 \sim 10/20$ $10/20 \sim 10/21$		
O1 P C	10	One has I start Burgastana I Commun. (B. 111. B. 111. C.		4(0.01)	7737
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	tr(0.01)	HV
		Annex (Osaka City)	10/26 ~ 10/27		
	L		10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	nd	HV
			10/27 ~ 10/28		
	l		$10/28 \sim 10/29$		

Local communities	No.	Monitored sites		season	Air sampler
Local communities	No.	Monitored sites	Sampling dates	Measured value	Air sampier
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	nd	HV
·		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.01)	HV
11414 11011		romarim Quanty maintening station (15mm stoy)	11/16 ~ 11/17	4(0.01)	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	nu	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	tr(0.01)	HV
Tillosiiilia City	24	Throshinia City Kokutaiji Junioi Tiigh School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	u(0.01)	11 V
1: D C	25	Y 1'D 0 1 1 1 1 1 1 1 1	10/28 ~ 10/29	,	107
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	nd	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		`	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	nd	HV
Emme 1 ter.	2)	(Uwajima City)	11/16 ~ 11/17	nu	11 4
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	tr(0.02)	HV
Tukuoka 11ci.	30	Official City Government Building (Official City)	11/17 ~ 11/18	11(0.02)	11 V
C D C	21		$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$	1	107
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	nd	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.01)	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17	` ′	
)	11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
5.1.11mm a 1 101.	55	cupe rieuc (risingum vinuge)	9/28 ~ 9/29	110	11.
		1	J. 20 J. 27	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

[1-8] Octachlorobiphenyls/air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 16/35 (Missing value: 0)
Detection Frequency (sample): 16/35 (Missing value: 0)

	Aggregated value
Geometric mean	tr(0.06)
Median	nd
Maximum	2.3
Minimum	nd

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	nd	MV
Hokkaido	1	Osinina General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	nu	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
Support City	_	Support First and (Support City)	$10/19 \sim 10/20$	iid	11 1
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/11 \sim 10/12$	nd	HV
Twate 1 Ici.	3	Sugo Ali Quanty Monitoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	IIG	11 V
) (; ; D (;		Maria Daniel de la Contra de la	10/13 ~ 10/14	1	3.67
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.10)	MV
•		City)		` '	
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	nd	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(0.08)	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.10)	HV
_			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	tr(0.13)	MV
•		(Yokohama City)		, ,	
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	2.3	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.06)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29	` '	
)	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
		Environment (Kofu City)	9/28 ~ 9/29		
)	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	nd	MV
8		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	nd	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
		<i>g,</i>	11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.16	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.34	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	nd	HV
, ,		(10/27 ~ 10/28		
			10/28 ~ 10/29		

Local communities	No.	Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	nd	HV
·		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	ì	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.09)	HV
		Tomi in Quality Monitoring Station (Temi Oily)	11/16 ~ 11/17	1 (0.05)	11 '
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	$11/17 \sim 11/18$ $11/16 \sim 11/17$	nd	HV
Sililiane Fiel.	23	Okt National Acid Kani Observatory (Okinosinna Town)	11/10 ~ 11/17	ild	11 V
			11/17 ~ 11/18		
II. 1. C.	2.4	H. 1. C. K. 1 I. 1 C. 1 . (L. 1 C.)		(0.10)	1137
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	tr(0.10)	HV
			10/27 ~ 10/28		
			10/28 ~ 10/29		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	tr(0.12)	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	tr(0.08)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(0.09)	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		Zinvinosimia soronoto comor (1 enuesiminu city)	11/10 ~ 11/11	•	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(0.10)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	nd	HV
Emme 1 Tel.		(Uwajima City)	11/16 ~ 11/17	, no	11 1
		(Owajina City)	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	1.0	HV
Tukuoka 11ci.	30	Official City Government Building (Official City)	11/17 ~ 11/18	1.0	11 V
C D C	2.1		$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$	1	3.637
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	nd	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		· (y)	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	nd	MV
Wifyuzuki i ici.	33	Environment (Miyazaki City)	10/23 11/1	ind	141 4
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.10)	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30	1	

⁽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: 2021

Detection Frequency (site): 6/35 (Missing value: 0)
Detection Frequency (sample): 6/35 (Missing value: 0)

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.08
Minimum	nd

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	nd	MV
Hokkaldo	1	Osinina General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	nd	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
варрого спу	_	Support That Cappers City)	$10/19 \sim 10/20$	iid	11 7
			$10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \sim 10/21$ $10/11 \sim 10/12$	nd	HV
Twate Tiel.	3	Sugo Ali Quanty Monitoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	IIG	11 V
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment	$\frac{10/13 \sim 10/14}{10/26 \sim 11/2}$	nd	MV
Milyagi Prei.	4	(Sendai City)	10/20 ~ 11/2	na	IVI V
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	nd	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	nd	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	nd	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
J		, , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	nd	MV
·		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	0.08	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	nd	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	nd	MV
		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	nd	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
	L		10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	tr(0.03)	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	nd	HV
		(== ===,)	10/27 ~ 10/28		

Local communities	No.	Monitored sites	Warm season		Air sampler
Local communities	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	nd	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21]	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.03)	HV
			11/16 ~ 11/17	ì í	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
		,	11/17 ~ 11/18	ĺ	
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)		tr(0.03)	HV
,			10/27 ~ 10/28	(0.00)	
			10/28 ~ 10/29	1	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/20 - 10/29 $10/1 \sim 10/8$	nd	MV
Tamagaciii TTer.	23	Environment (Yamaguchi City)	10/1 10/0	nd	171 7
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	nd	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
		` '	11/10 ~ 11/11	ĺ	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	nd	HV
Emme Tier.		(Uwajima City)	11/16 ~ 11/17	ind.	11 1
		(Cwajina City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.07	HV
i ukuoku i ici.	50	Omata City Government Building (Omata City)	11/17 ~ 11/18	0.07	11 4
			11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	nd	MV
Saga 1 ICI.	31	Saga Trefectural Environmental Research Center (Saga City)	10/1 ~ 10/6	nu	IVI V
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	nd	HV
1241114111010 1 101.	22	Environmental Science (Udo City)	11/16 ~ 11/17	110	11 4
		Zin in similari in solution (e dio city)	11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	nd	MV
1111 yuzuni 1 101.	33	Environment (Miyazaki City)	10/23 11/1	ind	141 4
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.03)	HV
5		and Public Health (Kagoshima City)	11/16 ~ 11/17	` '	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11/17 ~ 11/18	j	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
		(.zw5	9/28 ~ 9/29		11.
			$9/29 \sim 9/30$	j l	

⁽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: 2021

Detection Frequency (site): 15/35 (Missing value: 0)
Detection Frequency (sample): 15/35 (Missing value: 0)

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.05
Minimum	nd

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	$10/19 \sim 10/26$	nd	MV
Hokkaido	1	Osinina General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	nu	1 V1 V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
Support City	_	Support First and (Support City)	$10/19 \sim 10/20$	iid	11 1
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/11 \sim 10/12$	nd	HV
Twate 1 Ici.	3	Sugo Ali Quanty Monitoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	IIG	11 V
) (; ; D (;		Maria Daniel de la Contra de la	10/13 ~ 10/14	. (0.02)	3.67
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	tr(0.03)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	nd	MV
•		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	nd	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(0.03)	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.03)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	tr(0.02)	MV
•		(Yokohama City)		, ,	
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
)	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.02)	HV
		Environment (Kofu City)	9/28 ~ 9/29	` ′	
)	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	nd	MV
ragane rren	10	(Nagano City)	10/20 11/1		
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	nd	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	tr(0.04)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	tr(0.02)	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	nd	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	nd	HV
, ,		(10/27 ~ 10/28		
			10/28 ~ 10/29		

Local communities	No.	Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	nd	HV
·		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	ì	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.02)	HV
11414 11011		romer in Quanty Homesting Station (15th 15th)	11/16 ~ 11/17	1 (0.02)	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	tr(0.03)	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	11(0.03)	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	tr(0.02)	HV
Tillosiillia City	24	Throshinia City Kokutaiji Junioi Tiigh School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	u(0.02)	11 V
1: D C	2.5	Y 1'D 0 1 1 1 1 1 1 1 1	10/28 ~ 10/29		107
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	nd	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	ì	
		\	11/10 ~ 11/11	•	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(0.02)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(0.02)	HV
Emme 1 let.	2)	(Uwajima City)	11/16 ~ 11/17	11(0.02)	111
		(Cwajina Chy)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.05	HV
i ukuoka i ici.	50	Omata City Government Building (Omata City)	11/17 ~ 11/18	0.03	11 V
			11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	nd	MV
Saga Fiel.	31	Saga Fretectural Environmental Research Center (Saga City)	10/1 ~ 10/8	nd	IVI V
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	0.05	HV
12	22	Environmental Science (Udo City)	11/16 ~ 11/17	0.05	11.
			11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	10/25 ~ 11/1	nd	MV
wiiyazaki i ici.	33	Environment (Miyazaki City)	10/25 - 11/1	nd	IVI V
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.03)	HV
=		and Public Health (Kagoshima City)	11/16 ~ 11/17	1	
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
		1 - (9/28 ~ 9/29		
			9/29 ~ 9/30	1	

⁽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] HCB (Hexachlorobenzene) /air (pg/m³)

Monitored year : 2021

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

	Aggregated value
Geometric mean	96
Median	96
Maximum	140
Minimum	66

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	$10/19 \sim 10/26$	79	MV
Hokkaldo	1	Osinina General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	19	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	66	HV
	_	Support First and (Support Only)	$10/19 \sim 10/20$	00	11 1
		$10/20 \sim 10/21$			
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \sim 10/21$ $10/11 \sim 10/12$	74	HV
Twate Tiel.	3	Sugo Ali Quality Monitoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	/ 4	11 V
14: 'D C		Maria Daniela Contra de la Cont	10/13 ~ 10/14	100	3.67
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	100	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	100	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	85	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	93	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	100	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	96	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	110	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	90	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	92	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	100	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		` **	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	110	HV
		Environment (Kofu City)	9/28 ~ 9/29		
		l	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	96	MV
8		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	87	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	94	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	79	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	98	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	88	HV
, ,	1	(10/27 ~ 10/28		

Local communities	No.	Monitored sites	Warm season		Air sampler
	INO.		Sampling dates	Measured value	All Sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	72	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21		
Nara Pref. 22	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	95	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	110	HV
		,	11/17 ~ 11/18]	
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	99	HV
·			10/27 ~ 10/28		
			10/28 ~ 10/29	ĺ	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	120	MV
T WILLIAM T TOTA	20	Environment (Yamaguchi City)	10/1 10/0	120	1.2 1
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	120	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	86	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
			11/10 ~ 11/11	1	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	100	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	94	HV
Elillie Tiel.		(Uwajima City)	11/16 ~ 11/17	1 7	11 1
		(Owajima Orty)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	140	HV
i ukuoku i ici.	50	Omata City Government Building (Omata City)	11/17 ~ 11/18	140	11 4
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	110	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	110	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
			11/17 ~ 11/18]	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	90	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	110	HV
		and Public Health (Kagoshima City)	$11/16 \sim 11/17$		
	L		11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	95	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30	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.

[6-1] p,p'-DDT/air (pg/m³)

Monitored year: 2021

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

	Aggregated value
Geometric mean	0.80
Median	0.67
Maximum	6.3
Minimum	0.16

Local communities	No.	Monitored sites	Warm s		Air sampler
Hokkaido	1	Online Consul Subsurfactural Property (Halas data Cita)	Sampling dates 10/19 ~ 10/26	Measured value	MV
Ноккатао	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	6.3	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	0.33	HV
Support City 2	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	0.55	11 V
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
T . D C	_	G A' O I' M ' ' G G (TE I ' G')		0.44	1117
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	0.44	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	0.46	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	1.4	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	0.64	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	1.1	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	0.37	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	1.2	HV
C		, , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	1.4	MV
Tenenana eng		(Yokohama City)	10,20		212 1
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	1.5	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	1.9	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	0.78	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		` "	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	1.9	HV
		Environment (Kofu City)	9/28 ~ 9/29	•	
		(())	$9/29 \sim 9/30$		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	5.8	MV
rvagano i ici.	13	(Nagano City)	10/23 11/1	5.6	1V1 V
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	0.47	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.42	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	0.29	HV
		(Yokkaichi City)	10/19 ~ 10/20		
	L		10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	3.5	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	0.87	HV
Hyogo Fiel.	l	\ '	10/27 ~ 10/28		

Local communities	No.	Monitored sites	Warm season		Air sampler
Local communities	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	0.46	HV
		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Nara Pref. 22	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	1.1	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.16	HV
		, , , , , , , , , , , , , , , , , , ,	11/17 ~ 11/18		
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	0.51	HV
•		, , , , , , , , , , , , , , , , , , , ,	10/27 ~ 10/28		
			10/28 ~ 10/29		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	1.4	MV
<i>6</i> ·····		Environment (Yamaguchi City)			
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	3.9	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	0.67	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		***************************************	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	0.63	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	0.50	HV
Emme 1 fer.		(Uwajima City)	11/16 ~ 11/17	0.50	11 1
		(C wajima city)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	2.5	HV
1 4114 5114 1 1 511	50	Simula City Severimient Bunuing (Simula City)	11/17 ~ 11/18		
			11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	0.74	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	0.24	HV
Kumamoto fiel.	32	Environmental Science (Udo City)	11/16 ~ 11/16	0.24	11 V
		Environmental science (odo city)			
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$11/17 \sim 11/18$ $10/25 \sim 11/1$	0.20	MV
iviiyazaki Frei.	33	Environment (Miyazaki City)	10/25 ~ 11/1	0.20	IVI V
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	0.52	HV
=		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	0.16	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30	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.

[6-2] p,p'-DDE/air (pg/m 3)

Monitored year: 2021

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

Detection limit: 0.05 Quantification limit: 0.13

	Aggregated value
Geometric mean	1.6
Median	1.4
Maximum	21
Minimum	0.43

Local communities	No.	Monitored sites	Warm s		Air sampler
** 11 '1			Sampling dates	Measured value	
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	6.1	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	1.1	HV
Sapporo City	_	Sapporo Art I ark (Sapporo City)	$10/18 \sim 10/19$ $10/19 \sim 10/20$	1.1	11 V

			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	1.6	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	0.90	MV
***	_		10/0 10/15		
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	6.7	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	1.4	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	1.9	MV
		Protection (Koto Ward)			
	0	Chiabilina Island (Occ. 1979)	11/7 ~ 11/14	0.47	3.457
	8	Chichijima Island (Ogasawara Village)	11//~11/14	0.47	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	1.8	HV
C		, , , , , , , , , , , , , , , , , , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/1$	2.3	MV
i okonama eny	10	(Yokohama City)	10/23 11/1	2.3	IVI V
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	2.6	HV
rviigata i ici.	11	Oyuna 7th Quanty Monitoring Station (14ngua City)	$10/12 \sim 10/13$	2.0	11 1
T D £	12	Towns Air Osolite Monitorine Station (Towns City)	10/13 ~ 10/14	3.3	HV
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	3.3	нv
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	1.3	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	2.7	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	21	MV
		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	1.2	HV
Onu rici.	10	Environmental Sciences (Kakamigahara City)		1.2	11 V
		Environmental sciences (Kakannganata City)	11/9 ~ 11/10		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	$\frac{11/10 \sim 11/11}{10/19 \sim 10/26}$	0.94	MV
ragoya City	1 /	Cinkusa watu Helwa Laik (wagoya City)	10/19 ~ 10/20	0.24	1VI V
M. D. c	10	MC D C . II Id ID	10/10 10/10	0.61	****
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	0.61	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	3.9	HV
		Annex (Osaka City)	$10/26 \sim 10/27$		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	1.4	HV
			10/27 ~ 10/28		
	ı	1	10/28 ~ 10/29		

Local communities	No.	Monitored sites		season	Air sampler
	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	0.85	HV
		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	1.3	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.55	HV
		,	11/17 ~ 11/18		
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)		0.88	HV
,			10/27 ~ 10/28		
			10/28 ~ 10/29		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/28 < 10/29	1.8	MV
Tamaguem TTer.	23	Environment (Yamaguchi City)	10/1 - 10/6	1.0	1 V1 V
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	3.8	MV
Tokushima Pref.	ma Pref. 27 Tokushima Prefectural Public Health, Pharmaceutical and 11	11/8 ~ 11/9	1.7	HV	
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		***************************************	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	1.4	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	1.0	HV
2		(Uwajima City)	11/16 ~ 11/17	110	
		(C wajima city)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	4.3	HV
i ukuoku i ici.	50	omata city deverminent Banding (omata city)	11/17 ~ 11/18	1.5	11 7
			11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	1.8	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	0.73	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		(_j)	11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	0.72	MV
, uzum 1101.	33	Environment (Miyazaki City)	10/20 11/1	0.72	111 1
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	1.0	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	0.43	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		

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

⁽Note 3) HV: High volume air sampler , MV: Medium volume air sampler.

[6-3] p,p'-DDD/air (pg/m³)

Monitored year : 2021

Detection Frequency (site): 18/35 (Missing value: 0)
Detection Frequency (sample): 18/35 (Missing value: 0)

Detection limit: 0.05 Quantification limit: 0.13

	Aggregated value
Geometric mean	tr(0.05)
Median	tr(0.05)
Maximum	0.18
Minimum	nd

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates $10/19 \sim 10/26$		MV
ноккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	tr(0.08)	IMI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
виррого спу	_	Support Art Lark (Support City)	$10/19 \sim 10/20$	na	11.
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/11 \sim 10/12$	nd	HV
Twate Tiel.	3	Sugo An Quanty Monitoring Station (Tukizawa City)	$10/12 \sim 10/13$	na	11.
			$10/12 \sim 10/13$ $10/14$		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment	$10/26 \sim 11/2$	nd	MV
wiiyagi i ici.	7	(Sendai City)	10/20 ~ 11/2	nu	IVI V
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.05)	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	nd	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(0.06)	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
Č		, , , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	tr(0.08)	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(0.09)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(0.10)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.05)	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	0.18	MV
		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	nd	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	tr(0.09)	HV
		Annex (Osaka City)	10/26 ~ 10/27	` ′	
		· · · · · · · · · · · · · · · · · · ·	10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/27$	tr(0.05)	HV
, 5		, , , , , , , , , , , , , , , , , , ,	10/27 ~ 10/28	(****)	•

Local communities	No.	Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	nd	HV
·		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.06)	HV
		romer in Quanty Homesting Station (15th 15th)	11/16 ~ 11/17	12(0.00)	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	nu nu	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	nd	HV
mirosiiina City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$ $10/27 \sim 10/28$	na	пν
				,	
** 1:5 0	2.5	Y I'D O I I'V I'V OD II' Y II	10/28 ~ 10/29	(0.00)	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	tr(0.09)	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	0.16	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(0.06)	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	(* * * *)	
		\	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(0.07)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	nd	HV
Emine 1 lei.		(Uwajima City)	11/16 ~ 11/17	ind.	11 1
		(Cwajina Chy)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	tr(0.10)	HV
i ukuoka i ici.	30	Omata City Government Building (Omata City)	11/17 ~ 11/18	11(0.10)	11 V
			11/17 ~ 11/18		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	tr(0.08)	MV
Saga Prei.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	17(0.08)	IVI V
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	nd	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		(,/	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	nd	MV
wilyuzuki i rei.	55	Environment (Miyazaki City)	10,23 11,1	ind	141 4
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.07)	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30	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

[6-4] *o,p'* -DDT/air (pg/m³)

Monitored year: 2021

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

Detection limit: 0.03 Quantification limit: 0.08

	Aggregated value
Geometric mean	0.50
Median	0.47
Maximum	3.0
Minimum	0.11

Local communities	No.	Monitored sites	Warm		Air sampler
TT 11 '1	1		Sampling dates	Measured value	107
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	1.7	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	0.24	HV
Sapporo City		Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/19$ $10/19 \sim 10/20$	0.24	11 V
T . D C	_		10/20 ~ 10/21	0.27	****
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	0.27	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	0.34	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	0.73	MV
i amagata i ici.	3	City)	10/0 - 10/13	0.73	1V1 V
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	0.47	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	0.60	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	0.21	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.64	HV
J		, , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	0.83	MV
Tenenana eng	10	(Yokohama City)	10,25	0.05	111 1
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	0.81	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	1.1	HV
•		3	10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	0.54	HV
1511111411411	10	Environmental Science (Kanazawa City)	9/28 ~ 9/29	0.5 .	
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	$9/27 \sim 9/28$	1.3	HV
	• •	Environment (Kofu City)	9/28 ~ 9/29		-1.
		Zii. Ii oiiii (Itola City)	$9/29 \sim 9/30$		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 9/30$	3.0	MV
rvagano i ici.	13	(Nagano City)	10/23 11/1	3.0	IVI V
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	0.32	HV
	_	Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.27	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	0.19	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	2.3	HV
	-/	Annex (Osaka City)	$10/26 \sim 10/27$	2.0	-11 7
		- Inter- (Sumu On)	$10/20 \approx 10/27$ $10/27 \sim 10/28$		
	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/27 \sim 10/28$ $10/26 \sim 10/27$	0.67	HV
Hyogo Pref					1 I V
Hyogo Pref.	20	1190go 110100tunui Environmientai rescaren Center (12000 City)	10/27 ~ 10/28	0.07	

	No.		Warm season		Air sampler
Kobe City		Monitored sites	Sampling dates	Measured value	Air sampler
Kooc City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	0.31	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	0.51	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.16	HV
		on random role ram coor and y (chinesima rown)	11/17 ~ 11/18	0.10	
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	0.36	HV
Timosinina City	27	Throshina City Rokataiji vantoi Tiigh School (Throshina City)	$10/20 \sim 10/27$	0.50	11 V
			$10/27 \sim 10/28$ $10/28 \sim 10/29$	1	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	$10/28 \sim 10/29$ $10/1 \sim 10/8$	0.65	MV
i amaguciii Prei.	23	Environment (Yamaguchi City)	10/1 ~ 10/8	0.03	IVI V
3	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	1.5	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	blic Health, Pharmaceutical and 11/8 ~ 11/9 0.45	HV	
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
			11/10 ~ 11/11	1	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	0.45	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	0.35	HV
Eliline 1 ter.		(Uwajima City)	11/16 ~ 11/17	0.55	11 1
		(Cirajina City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	1.7	HV
i ukuoka i ici.	30	Omata City Government Bunding (Omata City)	11/17 ~ 11/18	1.7	11 V
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	0.49	MV
Sugu 1101.	51	Suga Protectatus Environmentus Research Contes (Suga City)	10/1 10/0	0.19	111 1
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	0.20	HV
	_	Environmental Science (Udo City)	11/16 ~ 11/17		
			11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	0.18	MV
, чени 1101.	55	Environment (Miyazaki City)	10/20 11/1	0.10	111 1
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	0.34	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
		` 5	11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	$9/27 \sim 9/28$	0.11	HV
Skiim. a i ivi.	55	cape 11000 (110mgum + mugo)	9/28 ~ 9/29	V.11	11 1
			$9/29 \sim 9/30$	1	

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

⁽Note 3) HV: High volume air sampler , MV: Medium volume air sampler.

[6-5] o,p'-DDE/air (pg/m 3)

Monitored year : 2021

Detection Frequency (site): 34/35 (Missing value: 0)
Detection Frequency (sample): 34/35 (Missing value: 0)

Detection limit: 0.04 Quantification limit: 0.10

	Aggregated value
Geometric mean	0.17
Median	0.16
Maximum	0.55
Minimum	nd

Local communities	No.	Monitored sites	Warm s		Air sampler
TT-1-1: 1-	1	Online Consul Subsurfactural Property (H.I., 1-t. Cit.)	Sampling dates	Measured value	MV
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	0.28	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	tr(0.09)	HV
Баррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/19$	u(0.07)	11 v
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Iwate Pref.	2	Constant Air Constitute Manifestina Chatian (Talainana Cita)		4(0,00)	1137
Iwate Prei.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	tr(0.09)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	0.11	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	0.21	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	0.22	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	0.37	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	0.11	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.18	HV
C		, , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/1$	0.31	MV
		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	0.18	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	0.17	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	0.14	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		•	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	0.38	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	0.55	MV
ragano rien	13	(Nagano City)	10/23 11/1	0.55	171 7
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	0.14	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.16	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	tr(0.08)	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.46	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	0.15	HV
, ,		(10/27 ~ 10/28		
	1	1	10/28 ~ 10/29		

Local communities	No.	Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	0.12	HV
·		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	0.22	HV
		Tomit in Quality Monitoring Station (Tomit Stoy)	11/16 ~ 11/17	0.22	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	tr(0.09)	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	11(0.07)	11 v
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	0.11	HV
mirosiiina City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$ $10/27 \sim 10/28$	0.11	п٧
				,	
** 1:5 0	2.5	Y I'D O I I'D O I I'D I	10/28 ~ 10/29	0.20	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	0.20	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	0.24	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	0.15	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	0.19	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	0.11	HV
Emme 1 let.	2)	(Uwajima City)	11/16 ~ 11/17	0.11	111
		(Owajima City)	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.54	HV
Tukuoka 11ci.	30	Official City Government Building (Official City)	11/17 ~ 11/18	0.54	11 V
				1	
C D C	2.1		$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$	0.24	107
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	0.24	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	0.13	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		//	11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	0.11	MV
1111) 42.4411 1 1011		Environment (Miyazaki City)	10,20 11,1	0111	1.1
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	0.15	HV
=		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29	1	
	1		9/29 ~ 9/30	ĺ	

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

[6-6] *o,p'* -DDD/air (pg/m³)

Monitored year : 2021

Detection Frequency (site): 27/35 (Missing value: 0) Detection Frequency (sample): 27/35 (Missing value: 0)

Detection limit: 0.04 Quantification limit: 0.10

	Aggregated value
Geometric mean	tr(0.05)
Median	tr(0.06)
Maximum	0.16
Minimum	nd

Local communities	No.	Monitored sites	Warm s		Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates $10/19 \sim 10/26$	Measured value	MV
поккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	0.11	IMI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
Заррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/18 \sim 10/19$ $10/19 \sim 10/20$	IIG	11 V
Iwate Pref.	2	Constant Air Constitute Manifestina Chatian (Talainana Cita)	10/20 ~ 10/21	4	HV
Iwate Prei.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	nd	нv
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	tr(0.04)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.05)	MV
C		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(0.06)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(0.06)	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(0.04)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.06)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	tr(0.09)	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(0.08)	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	0.10	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.04)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29	, ,	
		•	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.06)	HV
		Environment (Kofu City)	9/28 ~ 9/29	, ,	
		(),	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	0.16	MV
ragano rien	13	(Nagano City)	10/23 11/1	0.10	171 7
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(0.04)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10	` ′	
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.13	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	tr(0.05)	HV
			10/27 ~ 10/28	` ′	

Local communities	No.	Monitored sites	Warm	season	Air sampler
Local communities	INO.	Wolltored Sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(0.07)	HV
·		(Kobe City)	10/19 ~ 10/20	` ′	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.07)	HV
11010 11011		romarim Quanty mannering statem (19mm etty)	11/16 ~ 11/17	2(0.07)	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	tr(0.04)	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	11(0.04)	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	nd	HV
nirosiiina City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$ $10/27 \sim 10/28$	na	п٧
				,	
** 1:5 0	2.5	Y 11D 0 1 1Y 11 1 1 1	10/28 ~ 10/29	(0.05)	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	tr(0.07)	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	tr(0.08)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	0.10	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
		`	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(0.07)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	nd	HV
Emme 1 ici.	2)	(Uwajima City)	11/16 ~ 11/17	nu nu	11 V
		(Owajima City)	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	tr(0.08)	HV
Tukuoka 11c1.	30	Official City Government Building (Official City)	11/17 ~ 11/18	11(0.00)	11 V
				1	
Saga Pref.	2.1	Saga Prefectural Environmental Research Center (Saga City)	$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$	tr(0.09)	3.637
Saga Prei.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	tr(0.09)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(0.04)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		` ''	11/17 ~ 11/18	j l	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.09)	HV
5	-	and Public Health (Kagoshima City)	11/16 ~ 11/17	(* **/	
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
Okinawa 1 101.	55	cupe frede (framgaini + mage)	9/28 ~ 9/29	iid.	11 4
		1	$9/29 \sim 9/30$	j 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) 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: 2021

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

Detection limit : 0.07 Quantification limit : 0.18

	Aggregated value
Geometric mean	2.8
Median	3.1
Maximum	6.5
Minimum	0.70

Local communities	No.	Monitored sites	Warm:		Air sampler
TT 11 '1			Sampling dates	Measured value	
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	5.5	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	2.8	HV
Sapporo City		Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	2.0	11 V
I I D C	2	C. A. O. IV. M. V. C. C. (T. 1)	10/20 ~ 10/21	2.2	1137
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	3.2	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	5.9	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	6.4	MV
J		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	5.8	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	4.3	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	5.9	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	2.8	HV
•		, , , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	4.5	MV
·		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	3.9	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	3.1	HV
•			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	2.7	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		***	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	1.4	HV
		Environment (Kofu City)	9/28 ~ 9/29		
		, , , , , , , , , , , , , , , , , , ,	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	5.5	MV
Trugullo TTVI	10	(Nagano City)	10,25		111 1
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	3.1	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
		, <i>g</i> ,,	11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	4.6	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	1.8	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	2.7	HV
	-/	Annex (Osaka City)	$10/26 \sim 10/27$		-1.
		- Inter- (Sumu On)	$10/20 \approx 10/27$ $10/27 \sim 10/28$		
	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/27 \sim 10/28$ $10/26 \sim 10/27$	1.3	HV
Hyogo Pref					
Hyogo Pref.	20	Tryogo i refecturar Environmentar Research Center (Robe City)	$10/20 \approx 10/27$ $10/27 \sim 10/28$	1.5	11 4

Local communities	No.	Monitored sites		season	Air sampler
	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	0.97	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	1.3	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.70	HV
		,	11/17 ~ 11/18	1	
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	0.90	HV
·			10/27 ~ 10/28		
			10/28 ~ 10/29		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	5.0	MV
Tuningueni Tren	20	Environment (Yamaguchi City)	10/1 10/0	3.0	1.2 1
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	6.5	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	3.4	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
			11/10 ~ 11/11	1	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	4.2	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	1.2	HV
Elillie Tiel.		(Uwajima City)	11/16 ~ 11/17	1.2	11 7
		(Owajima Orty)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	1.2	HV
i ukuoku i ici.	30	Omata City Government Building (Omata City)	11/17 ~ 11/18	1.2	11 4
			11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	2.7	MV
Saga 1 ICI.	31	Saga Freeetural Environmental Research Center (Saga City)	10/1 - 10/0	2.7	IVI V
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	1.0	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		` <i>*′</i>	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	10/25 ~ 11/1	3.8	MV
		Environment (Miyazaki City)			
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	1.5	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	4.5	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		

⁽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: 2021

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

Detection limit: 0.3 Quantification limit: 0.7

	Aggregated value
Geometric mean	8.3
Median	7.5
Maximum	42
Minimum	2.6

Local communities	No.	Monitored sites	Warm		Air sampler
TT 11 '1			Sampling dates	Measured value	
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	7.3	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	2.6	HV
Sapporo City		Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	2.0	11 V
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
T . D C	_		10/20 ~ 10/21	2.0	****
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	3.8	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	13	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	7.5	MV
Ü		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	14	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	10	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	9.2	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	15	HV
-			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	12	MV
·		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	5.6	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	6.9	HV
•			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	16	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		, , , , , , , , , , , , , , , , , , , ,	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	6.9	HV
		Environment (Kofu City)	9/28 ~ 9/29		•
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	6.7	MV
Trugullo TTVI	10	(Nagano City)	10,25		
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	8.5	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	8.4	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	5.4	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	20	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	6.7	HV
		( == ===,)	10/27 ~ 10/28		

Local communities	No.	Monitored sites	Warm	season	Air sampler
Local communities	100.	ivionitored sites	Sampling dates	Measured value	Air sampier
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	5.7	HV
•		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	6.5	HV
11414 11011		Tomit in Quality Monitoring Station (Tomit Stoy)	11/16 ~ 11/17	0.5	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	5.4	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	3.4	11 V
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	42	HV
mirosiiina City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/28 \sim 10/27$ $10/27 \sim 10/28$	42	п٧
				,	
			10/28 ~ 10/29		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	28	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	13	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	11	HV
	_,	Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	12	MV
Ehime Pref.	29	29 Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	12	HV
Ellillic I Ici.	2)	(Uwajima City)	11/16 ~ 11/17	12	11 v
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	5.4	HV
rukuoka riei.	30	Official City Government Building (Official City)	$11/10 \sim 11/17$ $11/17 \sim 11/18$	3.4	11 V
				1	
C D C	2.1		$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$	C 4	3.637
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	6.4	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	5.2	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		//	11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	10/25 ~ 11/1	3.4	MV
1711) W.Z.W. 11011	55	Environment (Miyazaki City)	10,20 11,1		111 1
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	7.9	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	2.6	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30	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.

### [17] Pentachlorobenzene/air (pg/m³)

Monitored year: 2021

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

Detection limit: 0.05 Quantification limit: 0.13

	Aggregated value
Geometric mean	61
Median	63
Maximum	130
Minimum	36

Local communities	No.	Monitored sites	Warm s Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	$10/19 \sim 10/26$	41	MV
Hokkaldo	1	Osinina General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	41	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	36	HV
виррого спу	_	Support First and (Support Only)	$10/19 \sim 10/20$	50	11 '
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \sim 10/21$ $10/11 \sim 10/12$	40	HV
Twate Tiel.	3	Sugo Ali Quality Monitoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	40	11 V
16: 'D C		DE ID C . II C . CD III II II II	10/13 ~ 10/14	57	207
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	57	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	63	MV
-		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	58	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	81	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	130	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	69	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	75	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	51	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	55	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	65	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	53	HV
		Environment (Kofu City)	9/28 ~ 9/29		•
		(	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	57	MV
ragano i ici.	13	(Nagano City)	10/23 11/1	37	141 4
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	66	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
		, , , , , , , , , , , , , , , , , , ,	11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	48	MV
			_		
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	47	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	67	HV
		Annex (Osaka City)	10/26 ~ 10/27	* *	
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/28$	55	HV
	20	12. 3 - 5 - 1 10100 talai Environmental Research Center (Robe City)	10,20 10/2/	55	11 4
Hyogo Hen.			$10/27 \sim 10/28$	l	

Local communities	No.	Monitored sites		season	Air sampler
Local communities	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	42	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	77	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	57	HV
		,	11/17 ~ 11/18	]	
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	69	HV
·			10/27 ~ 10/28		
			10/28 ~ 10/29	ĺ	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	63	MV
Tuningueni Tren	20	Environment (Yamaguchi City)	10/1 10/0		111 1
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	64	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	50	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
			11/10 ~ 11/11	1	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	70	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	65	HV
Elillie Tiel.		(Uwajima City)	11/16 ~ 11/17	05	11 1
		(Cwajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	130	HV
i ukuoka i iei.	50	omata city develument Banding (omata city)	11/17 ~ 11/18	150	11 1
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	66	MV
-					
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	79	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
			11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	46	MV
y = - 9 <b>2.</b>		Environment (Miyazaki City)			
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	81	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18	]	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	41	HV
			9/28 ~ 9/29	]	
			9/29 ~ 9/30	1	

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

⁽Note 3) HV: High volume air sampler , MV: Medium volume air sampler.

# [18] Endosulfans/air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 34/35 (Missing value: 0)
Detection Frequency (sample): 34/35 (Missing value: 0)

Detection limit: *0.5 Quantification limit: *1.1

	Aggregated value
Geometric mean	1.4
Median	1.3
Maximum	6.0
Minimum	nd

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates 10/19 ~ 10/26		MV
ноккатао	1	Osnima General Supprefectural Bureau (Hakodate City)	10/19 ~ 10/20	tr(1.0)	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
Баррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	na	11 V
			$10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \approx 10/21$ $10/11 \sim 10/12$	tr(0.6)	HV
Iwate Frei.	3	Sugo Air Quanty Monitoring Station (Takizawa City)		u(0.0)	пν
			10/12 ~ 10/13		
			10/13 ~ 10/14	(0.0)	
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	tr(0.8)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	4.2	MV
S		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	2.7	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	1.1	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(0.8)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	2.2	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/25 ~ 11/1	1.2	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(0.6)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(0.7)	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	2.1	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
	L		9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	1.7	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	tr(0.7)	MV
6		(Nagano City)		(- ')	
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	2.3	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
	L		11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	tr(0.7)	MV
Min Dung	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	tr(0.7)	HV
Mie Pref.	18			u(0.7)	нv
		(Yokkaichi City)	10/19 ~ 10/20		
0.1.7.2	4.0		10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	2.2	HV
		Annex (Osaka City)	$10/26 \sim 10/27$		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	tr(0.6)	HV
			10/27 ~ 10/28		
	l		10/28 ~ 10/29		

Local communities	No	No. Monitored sites		season	Air sampler
Local communities	110.	iviointoled sites	Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(0.6)	HV
•		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	2.5	HV
		( ()	11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	tr(0.8)	HV
Similane 1 fer.	23	Oktivational ricid Rain Goservatory (Oktinosimila Town)	11/17 ~ 11/18	1 1 1 1 1 1	11 4
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	tr(1.0)	HV
Tinosiiina City	24	Timosinina City Kokutaiji Junioi Tiigii School (Timosinina City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	11(1.0)	11 V
			$10/27 \sim 10/28$ $10/28 \sim 10/29$		
V	25	Variational Description Line State of Data Line Hall and	$10/28 \sim 10/29$ $10/1 \sim 10/8$	2.0	MV
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	2.0	IVI V
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	2.0	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	2.4	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		•	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	6.0	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	3.6	HV
Emme Tier.		(Uwajima City)	11/16 ~ 11/17	3.0	11 '
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	3.3	HV
rukuoka 11ci.	30	Official City Government Building (Official City)	11/17 ~ 11/18	. 3.3	11 V
			$11/17 \sim 11/18$ $11/18 \sim 11/19$		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$	4.1	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	4.3	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
			$11/17 \sim 11/18$		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	1.3	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	2.2	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	tr(0.5)	HV
		1 (	9/28 ~ 9/29	()	
			$9/29 \sim 9/30$	1	
		(cita) is based on the number of sites thus mesons (the number of dates			

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

⁽Note 5) tr : Detection limit value and more, less than Quantification limit value.

⁽Note 6) nd: Not detected

## [18-1] $\alpha$ -Endosulfan/air (pg/m³)

Monitored year: 2021

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

Detection limit: 0.2 Quantification limit: 0.4

	Aggregated value
Geometric mean	1.4
Median	1.3
Maximum	6.0
Minimum	0.4

Local communities	No.	Monitored sites	Warm s		Air sampler
TT-1-1: 1-	1	Online Consul Subsurfactural Property (Halas data Cita)	Sampling dates	Measured value	MX
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	1.0	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	0.4	HV
Баррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/18 \sim 10/19$ $10/20$	0.4	11 V
			10/20 ~ 10/21		
Iwate Pref.	2	Constant Air Constitute Manifestina Chatian (Talainana Cita)		0.6	1137
Iwate Prei.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	0.6	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	0.8	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	3.7	MV
8		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	2.3	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	1.1	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	0.8	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	1.9	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	1.2	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	0.6	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	0.7	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	2.1	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		, , , , , , , , , , , , , , , , , , , ,	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	1.7	HV
		Environment (Kofu City)	9/28 ~ 9/29	•	•
		(	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	0.7	MV
ragano i ici.	13	(Nagano City)	10/23 11/1	0.7	171 7
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	2.3	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
		, , , , , , , , , , , , , , , , , , ,	11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.7	MV
	L				
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	0.7	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	2.2	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			$10/27 \sim 10/28$		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/28$	0.6	HV
	20	12. 3 - 5 - 1 10100 talai Environmental Research Center (Robe City)		0.0	11 4
nijogo men			$10/27 \sim 10/28$		

Local communities	No.	Monitored sites	Warm	season	Air sampler
Local communities	INO.		Sampling dates	Measured value	All sample
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	0.6	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	2.2	HV
			11/16 ~ 11/17	1	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.8	HV
		, (	11/17 ~ 11/18		
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	1.0	HV
Throshina City	- '	Throshina City Rokamiji vamoi riigii School (Throshina City)	$10/27 \sim 10/28$	1.0	11 7
			$10/28 \sim 10/29$	1	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	$10/28 \sim 10/25$ $10/1 \sim 10/8$	2.0	MV
i amagucini Fici.	23	Environment (Yamaguchi City)	10/1 ~ 10/8	2.0	IVI V
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	2.0	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	2.4	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
			11/10 ~ 11/11	1	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	6.0	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	3.6	HV
Eliline 1 fer.		(Uwajima City)	11/16 ~ 11/17	3.0	11.
		(o wajima city)	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	3.3	HV
Tukuoka 11C1.	30	Official City Government Buriding (Official City)	11/10 ~ 11/17	3.3	11 V
			11/17 ~ 11/18	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 11/19$ $10/1 \sim 10/8$	4.1	MV
Sugu 1 101.	31	Sugar reference Environmental research content (sugar city)	10/1 10/0		1,1,1
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	3.9	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	***	
		······ ( · · · · · · · · · · ·	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	1.3	MV
, шеши 1 101.	33	Environment (Miyazaki City)	10/20 11/1	1.5	141 4
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	2.2	HV
5		and Public Health (Kagoshima City)	11/16 ~ 11/17	1	
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	0.5	HV
Okinawa 1101.	33	Cupe Head (Hamigum + mage)	9/28 ~ 9/29	0.5	11 7
			$9/28 \sim 9/29$ $9/29 \sim 9/30$	{	
		(cita) is bessed on the number of sites, thus means (the number of dates			

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

# [18-2] $\beta$ -Endosulfan/air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 5/35 (Missing value: 0) Detection Frequency (sample): 5/35 (Missing value: 0)

Detection limit: 0.3 Quantification limit: 0.7

	Aggregated value
Geometric mean	nd
	114
Median	nd (0.5)
Maximum	tr(0.5)
Minimum	nd

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26		MV
покканио	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	nd	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
Sapporo City		Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	IId	11 V
T . D C	_		10/20 ~ 10/21	1	****
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.5)	MV
		City)		(0.0)	
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(0.4)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	nd	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	nd	MV
			11/0 11/0	(0.2)	
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.3)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/25 ~ 11/1	nd	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		, , , , , , , , , , , , , , , , , , ,	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	nd	HV
		Environment (Kofu City)	9/28 ~ 9/29		
		<b>[</b>	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	nd	MV
g		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	nd	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			$10/20 \sim 10/21$		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	nd	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	nd	HV
		· · · /	10/27 ~ 10/28		
		1	10/28 ~ 10/29		

Local communities	No.	Monitored sites	Warm season		Air sampler
Local communities	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	nd	HV
		(Kobe City)	10/19 ~ 10/20		
			$10/20 \sim 10/21$		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(0.3)	HV
			$11/16 \sim 11/17$		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
			11/17 ~ 11/18		
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	nd	HV
·			10/27 ~ 10/28	1	
			10/28 ~ 10/29	Ì	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	nd	MV
g		Environment (Yamaguchi City)			
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	nd	HV
Tokusiiiiiu Tiei.	21	Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	ind ind	11 *
		Environmental Sciences Center (Tokushima City)	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental	11/10 ~ 11/11	nd	MV
Kagawa 1101.	26	Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	iid	IVI V
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	nd	HV
		(Uwajima City)	11/16 ~ 11/17	1	
			11/17 ~ 11/18	ĺ	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	nd	HV
		3	11/17 ~ 11/18		
			11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(0.4)	HV
ramamow rich.	32	Environmental Science (Udo City)	11/16 ~ 11/17	H(0.7)	11 V
		Environmental belefice (odo city)	11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	nd	MV
iviiyazaki FICI.	33	Environment (Miyazaki City)	10/23 ~ 11/1	ind	1 <b>VI V</b>
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	nd	HV
=		and Public Health (Kagoshima City)	11/16 ~ 11/17	]	
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30	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 Polyhlorinated naphthalenes/air (pg/m³)

Monitored year : 2021

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

Detection limit: *0.3 Quantification limit: *0.7

	Aggregated value
Geometric mean	80
Median	72
Maximum	1,000
Minimum	5.3

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	65	MV
Hokkaido	1	Osinina General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	03	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	18	HV
support eny	_	Support First and (Support Only)	$10/19 \sim 10/20$	10	11 1
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	22	HV
Iwaic I Ici.	3	Sugo Ali Quanty Mointoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	22	11 V
) (; ; D (;		M. D. C. a. IV. day CD 11; IV. 14. 1 D. day	10/13 ~ 10/14	5.5	3.67
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	55	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	38	MV
-		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	57	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	100	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	30	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	99	HV
Č		, , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	190	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	65	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	$10/11 \sim 10/12$	57	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	72	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	87	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	180	MV
<i>G</i>		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	60	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
	<u> </u>		11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	89	MV
M: D C	10	Mic Du Corton Hoddy 17	10/10 10/10	110	7777
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	110	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21	,	
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	170	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	93	HV
			10/27 ~ 10/28		
	l		10/28 ~ 10/29		

Local communities	No.	Monitored sites	Warm season		Air sampler
	INU.		Sampling dates	Measured value	All Sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	38	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	550	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	5.3	HV
		,	11/17 ~ 11/18	Ì	
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)		110	HV
,			10/27 ~ 10/28		
			10/28 ~ 10/29	1	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	1000	MV
ramagaem rien	23	Environment (Yamaguchi City)	10/1 10/0	1000	111 7
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	420	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	150	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	Ì	
			11/10 ~ 11/11	ĺ	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	230	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	68	HV
2		(Uwajima City)	11/16 ~ 11/17		
		(c wajima city)	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	270	HV
i ukuoku i ici.	50	omata city develument Banding (omata city)	11/17 ~ 11/18	270	11 7
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	110	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	67	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	"	
			11/17 ~ 11/18	j l	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	51	MV
y = - 321		Environment (Miyazaki City)			
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	56	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17	]	
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	8.6	HV
			9/28 ~ 9/29	1	
	l		9/29 ~ 9/30	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 congeners.

#### [20-1] Monochlorinated naphthalenes/air (pg/m³)

Monitored year: 2021

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

Detection limit: 0.06 Quantification limit: 0.15

	Aggregated value
Geometric mean	52
Median	57
Maximum	650
Minimum	3.9

Local communities	No.	Monitored sites		season  Measured value	Air sampler
TT-14: 4-	1	Online Conserl Submoderate and Decree (Halandate City)	Sampling dates 10/19 ~ 10/26		MX
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	33	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	10	HV
11 5			10/19 ~ 10/20		
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	15	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	36	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	10/8 ~ 10/15	20	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	10/12 ~ 10/19	36	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/19 ~ 10/26	68	MV
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	8.5	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	67	HV
			11/9 ~ 11/10 11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	130	MV
i okonama City	10	(Yokohama City)	10/23 11/1	130	IVIV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	41	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	37	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	58	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	57	HV
		Environment (Kofu City)	9/28 ~ 9/29		
		V 7	9/29 ~ 9/30	1.40	
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	10/25 ~ 11/1	140	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	38	HV
Giru i ici.	10	Environmental Sciences (Kakamigahara City)	$11/9 \sim 11/10$	30	11 4
		Zin i di i di di di di di di di di di di di	11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	61	MV
	1.0		10/10		
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	$\frac{10/18 \sim 10/19}{10/19 \sim 10/20}$	72	HV
		(1 oktaioni Oity)	$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	$\frac{10/20 \sim 10/21}{10/25 \sim 10/26}$	110	HV
Osaka I ICI.	19	Annex (Osaka City)	$10/23 \sim 10/20$ $10/26 \sim 10/27$	110	11 V
		Times (Sound City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/27 \sim 10/28$ $10/26 \sim 10/27$	71	HV
11,0501101.			$10/20 - 10/27$ $10/27 \sim 10/28$	, -	11.1

Note City   21   Kobe City   Institute of Health and Environmental Sciences   Kobe City   Institute of Health and Environmental Sciences   Kobe City   Institute of Health and Environmental Sciences   International Professional Local communities	No.	Monitored sites	Warm	season	Air sample	
Nara Pref.   22   Tenri Air Quality Monitoring Station (Tenri City)   11/15 - 11/16   430   H	Local communities	INO.		Sampling dates	Measured value	All sample
Nara Pref.   22   Tenri Air Quality Monitoring Station (Tenri City)   11/15 ~ 11/16   430   H	Kobe City	21	Kobe City Institute of Health and Environmental Sciences		25	HV
Nara Pref.   22   Tenri Air Quality Monitoring Station (Tenri City)   11/15 ~ 11/16   11/16 ~ 11/17   11/18			(Kobe City)	10/19 ~ 10/20	1	
Shimane Pref.   23				10/20 ~ 10/21	1	
Shimane Pref.   23	Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	430	HV
Shimane Pref.   23   Oki National Acid Rain Observatory (Okinoshima Town)   11/16 - 11/17   3.9   H				11/16 ~ 11/17		
Shimane Pref.   23						
Hiroshima City   24   Hiroshima City Kokutaiji Junior High School (Hiroshima City   10/26 × 10/27   10/27 ~ 10/28   10/28 × 10/29   10/27 ~ 10/28   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/29   10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 × 10/28 ×	Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)		3.9	HV
Hiroshima City			,			
Hiroshima City					1	
Yamaguchi Pref.   25   Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)   10/1 ~ 10/8   650   M	Hiroshima City	24	Hiroshima City Kokutajii Junior High School (Hiroshima City)		63	HV
Yamaguchi Pref.   25   Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)   10/1 ~ 10/8   650   M	THOSHING CRY	~ .	Throshina city Rokawiji samoi riigii seneer (rinoshina city)		05	11,
Yamaguchi Pref.   25   Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)   10/1 ~ 10/8   650   M					1	
Environment (Yamaguchi City)   26   Hagi Health and Welfare Center (Hagi City)   10/1 ~ 10/8   210   M	Vamaguchi Draf	25	Vamaguchi Prafactural Institute of Public Health and		650	MV
Tokushima Pref. 27 Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	i amagucini Fici.	23	•	10/1 ~ 10/8	030	IVI V
Environmental Sciences Center (Tokushima City) $\frac{11/9 \sim 11/10}{11/10 \sim 11/11}$ Kagawa Pref.28Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City) $11/12 \sim 11/19$ 190MEhime Pref.29Ehime Prefectural Government Nanyo Regional Office (Uwajima City) $\frac{11/15 \sim 11/16}{11/17 \sim 11/18}$ 45HFukuoka Pref.30Omuta City Government Building (Omuta City) $\frac{11/16 \sim 11/17}{11/18 \sim 11/19}$ 170HSaga Pref.31Saga Prefectural Environmental Research Center (Saga City) $\frac{10/12 \sim 11/16}{11/16 \sim 11/17}$ 74MKumamoto Pref.32Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $\frac{11/15 \sim 11/16}{11/17 \sim 11/18}$ 46HMiyazaki Pref.33Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $\frac{10/25 \sim 11/1}{11/16 \sim 11/17}$ 40MKagoshima Pref.34Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) $\frac{11/15 \sim 11/16}{11/16 \sim 11/17}$ 32H		26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	210	MV
Environmental Sciences Center (Tokushima City) $\frac{11/9 \sim 11/10}{11/10 \sim 11/11}$ Kagawa Pref.28Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City) $11/12 \sim 11/19$ 190MEhime Pref.29Ehime Prefectural Government Nanyo Regional Office (Uwajima City) $\frac{11/15 \sim 11/16}{11/17 \sim 11/18}$ 45HFukuoka Pref.30Omuta City Government Building (Omuta City) $\frac{11/16 \sim 11/17}{11/17 \sim 11/18}$ 170HSaga Pref.31Saga Prefectural Environmental Research Center (Saga City) $\frac{10/12 \sim 10/8}{11/16 \sim 11/17}$ 74MKumamoto Pref.32Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $\frac{11/15 \sim 11/16}{11/17 \sim 11/18}$ 46HMiyazaki Pref.33Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $\frac{10/25 \sim 11/1}{11/16 \sim 11/17}$ 40MKagoshima Pref.34Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) $\frac{11/15 \sim 11/16}{11/16 \sim 11/17}$ 32H	Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	110	HV
Kagawa Pref. 28 Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)						
Kagawa Pref.28Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City) $11/12 \sim 11/19$ $190$ MEhime Pref.29Ehime Prefectural Government Nanyo Regional Office (Uwajima City) $11/16 \sim 11/17$ $11/17 \sim 11/18$ $45$ HFukuoka Pref.30Omuta City Government Building (Omuta City) $11/16 \sim 11/17$ $11/17 \sim 11/18$ $170$ HSaga Pref.31Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ $74$ MKumamoto Pref.32Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $11/16 \sim 11/17$ $11/17 \sim 11/18$ $46$ HMiyazaki Pref.33Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $10/25 \sim 11/1$ $40$ MKagoshima Pref.34Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) $11/15 \sim 11/16$ $11/16 \sim 11/17$ $32$ $11/16 \sim 11/17$					1	
	Kagawa Pref.	28	•		190	MV
	Ehime Pref	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	45	HV
Fukuoka Pref. 30 Omuta City Government Building (Omuta City)	2					
Fukuoka Pref.30Omuta City Government Building (Omuta City) $11/16 \sim 11/17$ $11/17 \sim 11/18$ $11/18 \sim 11/19$ 170HSaga Pref.31Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ 74MKumamoto Pref.32Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $11/15 \sim 11/16$ $11/17 \sim 11/18$ 46HMiyazaki Pref.33Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $10/25 \sim 11/1$ 40MKagoshima Pref.34Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) $11/15 \sim 11/16$ $11/16 \sim 11/17$ 32H			(c wajima city)		1	
Saga Pref. 31 Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ 74 M  Kumamoto Pref. 32 Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $11/16 \sim 11/16$ $11/16 \sim 11/17$ $11/17 \sim 11/18$ Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $10/25 \sim 11/1$ 40 M  Kagoshima Pref. 34 Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) $11/16 \sim 11/16$ 32 H	Fukuoka Pref	30	Omuta City Government Ruilding (Omuta City)		170	HV
Saga Pref. 31 Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ 74 M  Kumamoto Pref. 32 Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $11/16 \sim 11/16$ $11/16 \sim 11/17$ $11/17 \sim 11/18$ Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $10/25 \sim 11/1$ 40 M  Kagoshima Pref. 34 Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) $11/16 \sim 11/16$ 32 H	i ukuoka i ici.	30	Omata City Government Bunding (Omata City)	***************************************	170	11 V
Saga Pref.       31       Saga Prefectural Environmental Research Center (Saga City) $10/1 \sim 10/8$ 74       M         Kumamoto Pref.       32       Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City) $11/15 \sim 11/16$ 46       H         Miyazaki Pref.       33       Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City) $10/25 \sim 11/1$ 40       M         Kagoshima Pref.       34       Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) $11/15 \sim 11/16$ 32       H					1	
Environmental Science (Udo City)	Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)		74	MV
Environmental Science (Udo City)	W D. C	22	N. D. C. L. L. C. C. D. L. W. L. L.	11/15 11/17	46	
Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Healthand $10/25 \sim 11/1$ 40 M Environment (Miyazaki City)  Kagoshima Pref. 34 Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) $11/16 \sim 11/17$	Kumamoto Pref.	32			46	HV
Miyazaki Pref. 33 Miyazaki Prefectural Institute for Public Healthand $10/25 \sim 11/1$ 40 M Environment (Miyazaki City)  Kagoshima Pref. 34 Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) $11/16 \sim 11/17$			Environmental Science (Udo City)			
Environment (Miyazaki City)  Kagoshima Pref. 34 Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City) $11/16 \sim 11/16$ $11/16 \sim 11/17$	\				10	
and Public Health (Kagoshima City) 11/16 ~ 11/17	Mıyazaki Pref.	33	*	10/25 ~ 11/1	40	MV
	Kagoshima Pref.	34			32	HV
				11/16 ~ 11/17	]	
11/17 ~ 11/18				11/17 ~ 11/18	1	
	Okinawa Pref.	35	Cape Hedo (Kunigami Village)		5.8	HV
9/28 ~ 9/29		-	1 ( 6 6 /			
$9/20 \sim 9/30$						

⁽Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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 naphthalenes/air (pg/m³)

Monitored year: 2021

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

Detection limit: 0.02 Quantification limit: 0.05

_	Aggregated value
Geometric mean	15
Median	14
Maximum	290
Minimum	0.78

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26		MV
Hokkaido	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	28	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	6.1	HV
варрого спу	_	Support Titt Tark (Support City)	$10/19 \sim 10/20$	0.1	11 4
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
I I D C	_	G A' O I' M ' ' G G ( TE I ' G')		2.4	1137
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	3.4	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	12	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	5.7	MV
S		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	9.2	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/19 ~ 10/26	16	MV
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	3.8	MV
			11/0 11/0		
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	20	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/25 ~ 11/1	33	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	14	HV
			10/12 ~ 10/13		
			$10/13 \sim 10/14$		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	11	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	7.6	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		, , , , , , , , , , , , , , , , , , ,	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	11	HV
		Environment (Kofu City)	9/28 ~ 9/29		
		`	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	27	MV
Trugullo TTVI	10	(Nagano City)	10/20 11/1		1.1
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	10	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	15	MV
Mi- P. C	10	Mic Dufferton Hedde and Paris	10/10 10/10	25	1117
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	25	HV
		(Yokkaichi City)	10/19 ~ 10/20		
0.1.7.2	4.0		10/20 ~ 10/21		·
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	21	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	14	HV
			10/27 ~ 10/28		
	I		10/28 ~ 10/29		

Local communities	No.	Monitored sites		season	Air sampler
Local communities	INO.	Wolltored Sites	Sampling dates	Measured value	All sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	5.5	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	98	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.78	HV
		, (	11/17 ~ 11/18	1	
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)		21	HV
Throshina City	- '	Timesimia etty restatalji valnoi riigii seneor (riiresimia etty)	$10/27 \sim 10/28$	21	11 1
			$10/28 \sim 10/29$	1	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/28 < 10/29	290	MV
i amaguem i ici.	23	Environment (Yamaguchi City)	10/1 ~ 10/8	290	IVI V
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	180	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	26	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
		•	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	32	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	16	HV
		(Uwajima City)	11/16 ~ 11/17	1	
			11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	63	HV
1 4114 6114 1 1 611	50	Simulate City Severimient Bunding (Simulate City)	11/17 ~ 11/18		
			11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	20	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	12	HV
Kumamoto Frei.	32	Environmental Science (Udo City)	11/16 ~ 11/16	12	пу
		Environmental science (odo city)			
Mixegalei Deef	33	Miyazaki Prefectural Institute for Public Healthand	$11/17 \sim 11/18$ $10/25 \sim 11/1$	7.4	MV
Miyazaki Pref.	33	Environment (Miyazaki City)	10/25 ~ 11/1	7.4	IVI V
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	12	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17	]	
			11/17 ~ 11/18	]	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	1.8	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30	1	

⁽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 naphthalenes/air (pg/m³)

Monitored year : 2021

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

Detection limit : 0.01 Quantification limit : 0.04

	Aggregated value
Geometric mean	4.8
Median	5.2
Maximum	32
Minimum	0.32

Local communities	No.	Monitored sites		season	Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	2.5	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	0.96	HV
			10/19 ~ 10/20		
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	1.7	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	2.9	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	10/8 ~ 10/15	5.8	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	10/12 ~ 10/19	5.7	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/19 ~ 10/26	10	MV
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	11	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	$11/8 \sim 11/9$ $11/9 \sim 11/10$ $11/10 \sim 11/11$	6.0	HV
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/25 ~ 11/1	13	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	3.7	HV
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	4.0	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	3.1	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	6.1	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	10/25 ~ 11/1	5.1	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	$11/8 \sim 11/9$ $11/9 \sim 11/10$ $11/10 \sim 11/11$	6.1	HV
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	4.8	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	$10/18 \sim 10/19$ $10/19 \sim 10/20$ $10/20 \sim 10/21$	7.3	HV
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	$10/26 \sim 10/21$ $10/25 \sim 10/26$ $10/26 \sim 10/27$ $10/27 \sim 10/28$	11	HV
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/27$ $10/27 \sim 10/28$ $10/28 \sim 10/29$	3.9	HV

Local communities	No.	Monitored sites		season	Air sampler
Local communities	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	2.6	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21	]	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	7.4	HV
			11/16 ~ 11/17	Ì	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.32	HV
		,	11/17 ~ 11/18		
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)		10	HV
,			10/27 ~ 10/28		
			10/28 ~ 10/29	1	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/28 < 10/29	32	MV
Tamagaciii TTei.	23	Environment (Yamaguchi City)	10/1 10/0	32	141 4
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	18	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	3.8	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	Ì	
		•	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	5.2	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	3.4	HV
2		(Uwajima City)	11/16 ~ 11/17	]	
		(C wajima city)	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	22	HV
i ukuoku i ici.	50	omata city deverminent Banding (omata city)	11/17 ~ 11/18		11 7
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	6.5	MV
S					
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	5.5	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	1	
		` <i>''</i>	11/17 ~ 11/18	j	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	2.2	MV
<i>y</i> ===== <i>x</i>		Environment (Miyazaki City)			
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	4.6	HV
S		and Public Health (Kagoshima City)	11/16 ~ 11/17	1	
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	0.65	HV
		1 - (	9/28 ~ 9/29		
			9/29 ~ 9/30	1	

⁽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 naphthalenes/air (pg/m³)

Monitored year: 2021

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

Detection limit: 0.03 Quantification limit: 0.08

	Aggregated value
Geometric mean	4.0
Median	4.8
Maximum	22
Minimum	0.26

Local communities	No.	Monitored sites	Warm s		Air sampler
TT-1-1: 4-	1	Oaking Committee and Salamafactural Program (Halandata Cita)	Sampling dates	Measured value	MX
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	1.1	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	0.51	HV
виррого спу		Supporo Fitt Fair (Supporo City)	$10/19 \sim 10/20$	0.51	11 1
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \sim 10/21$ $10/11 \sim 10/12$	1.2	HV
Iwate Frei.	3	Sugo Air Quanty Monitoring Station (Takizawa City)		1.2	п٧
			10/12 ~ 10/13		
			10/13 ~ 10/14	2.5	
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	2.7	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	6.3	MV
-		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	5.1	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	8.2	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	6.8	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	4.8	HV
			11/9 ~ 11/10		
	L		11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/25 ~ 11/1	15	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	5.1	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	3.6	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	2.8	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	11	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	3.9	MV
5		(Nagano City)			
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	5.1	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	5.2	MV
M:- D C	10	Mis Diofestina Health and Francisco and D. L. V.	10/10 10/10	2.6	T 1 3 7
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	2.6	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	19	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	3.4	HV
			10/27 ~ 10/28		
	I		10/28 ~ 10/29		

Local communities	No.	Monitored sites	Warm season		Air sampler
Local communities	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	3.1	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	9.4	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.26	HV
		,	11/17 ~ 11/18	1	
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	14	HV
·			10/27 ~ 10/28		
			10/28 ~ 10/29		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	22	MV
T WILLIAM T TOTA	20	Environment (Yamaguchi City)	10/1 10/0	22	112 1
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	11	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	4.8	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	1	
			11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	4.1	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	2.6	HV
Emme 1 ter.	2)	(Uwajima City)	11/16 ~ 11/17	2.0	11 v
		(Cwajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	11	HV
I ukuoku I ICI.	50	omata city develument Banding (omata city)	11/17 ~ 11/18	11	11 1
			11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	4.6	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	3.1	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	***	
		· ( <del></del> )	11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	1.4	MV
11, 42,441 1 1011		Environment (Miyazaki City)	10.20 11/1		111 1
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	5.9	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
	L		11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	0.35	HV
			9/28 ~ 9/29	1	
			9/29 ~ 9/30	1	

⁽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 naphthalenes/air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 33/35 (Missing value: 0)
Detection Frequency (sample): 33/35 (Missing value: 0)

Detection limit : 0.05 Quantification limit : 0.12

	Aggregated value
Geometric mean	0.63
Median	0.82
Maximum	4.0
Minimum	nd

Local communities	No.	Monitored sites	Warm s		Air sampler
TT 11 '1	1		Sampling dates	Measured value	
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	0.15	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	tr(0.07)	HV
Sapporo City 2	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/19$ $10/19 \sim 10/20$	u(0.07)	11 V
			***************************************		
Iwate Pref.	2	Constant Air Constitute Manifestina Chatian (Talainana Cita)	10/20 ~ 10/21	0.18	HV
Iwate Prei.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	0.18	нv
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	0.67	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	0.37	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	0.50	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	1.3	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	0.21	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.91	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	1.8	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	1.5	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	0.82	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	0.72	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	1.9	HV
		Environment (Kofu City)	9/28 ~ 9/29	-	
		( ())	9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	0.75	MV
ragano rien	13	(Nagano City)	10/23 11/1	0.75	171 7
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	0.68	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	2.3	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	0.39	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	4.0	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	0.66	HV
		( == ==, )	10/27 ~ 10/28		

Local communities	No.	Monitored sites	Warm season		Air complex
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City 21	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	1.3	HV
		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	1.5	HV
11414 11011		romer in Quanty Homesting Station (15th 15th)	11/16 ~ 11/17	1.0	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	nu nu	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	2.6	HV
Tillosiiilia City	24	Throshinia City Kokutaiji Junioi Tiigii School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	2.0	11 V
1: D C	25	Y 1'D 0 1 1 1 1 1 1 1 1	10/28 ~ 10/29	1.2	3.67
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	1.3	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	0.98	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	1.0	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		<b>\</b>	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	0.90	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	0.72	HV
Ellillic I ICI.	29	(Uwajima City)	11/16 ~ 11/17	0.72	11 V
		(Owajima City)	11/10 ~ 11/17		
Fukuoka Pref.	30	Omuto City Covernment Building (Omute City)	$11/17 \sim 11/18$ $11/16 \sim 11/17$	3.0	HV
rukuoka Piei.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	3.0	пν
G P C	2.1		11/18 ~ 11/19	0.02	107
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	0.82	MV
Kumamoto Pref.	32	32 Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/15 ~ 11/16	0.45	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	0.17	MV
Kagoshima Pref. 34	34	34 Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	11/15 ~ 11/16	1.1	HV
			11/16 ~ 11/17	1	
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
		1 - (	9/28 ~ 9/29		
			9/29 ~ 9/30	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

#### [20-6] Hexachlorinated naphthalenes/air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 28/35 (Missing value: 0)
Detection Frequency (sample): 28/35 (Missing value: 0)

Detection limit: 0.06 Quantification limit: 0.14

	Aggregated value		
Geometric mean	tr(0.09)		
Median	tr(0.09)		
Maximum	0.42		
Minimum	nd		

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	$10/19 \sim 10/26$	nd	MV
Hokkaido	1	Osinina General Suoprefectural Bureau (Hakouate City)	10/19 ~ 10/20	nu	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
support eny	_	Support Tite Lark (Support City)	$10/19 \sim 10/20$	iid	11 1
		10/20 ~ 10/21			
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/11 \sim 10/12$	nd	HV
Iwaic I Ici.	3	Sugo Ali Quanty Monitoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	IIG	11 V
) (; ; ) (;		M. D. C. a. II. C. a. CD II. II. II. II.	10/13 ~ 10/14	. (0.12)	3.67
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	tr(0.13)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.07)	MV
-		City)		. ,	
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(0.07)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	0.15	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.13)	HV
_			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	0.20	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(0.13)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(0.12)	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.10)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	0.16	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 11/1	tr(0.09)	MV
8		(Nagano City)		(* ** )	
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(0.08)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.35	MV
			10/15	,	
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	tr(0.08)	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.31	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	tr(0.06)	HV
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10/27 ~ 10/28	` '	
	Ì		10/28 ~ 10/29		

Local communities	No.	Monitored sites	Warm season		Air sampler
	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(0.13)	HV
		(Kobe City)	10/19 ~ 10/20	1	
			10/20 ~ 10/21	]	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	0.24	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
		, , , , ,	11/17 ~ 11/18	Ì	
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	0.22	HV
,			10/27 ~ 10/28	1	
			10/28 ~ 10/29	1	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	tr(0.09)	MV
ramagaem riei.	23	Environment (Yamaguchi City)	10/1 10/0	u(0.09)	111 7
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	tr(0.08)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(0.13)	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	ì í	
			11/10 ~ 11/11	1	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	0.17	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(0.06)	HV
Emme 1 ter.	2)	(Uwajima City)	11/16 ~ 11/17	4(0.00)	11 4
		(Owajima City)	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.42	HV
i ukuoka i ici.	30	Omata City Government Building (Omata City)	11/17 ~ 11/18	0.42	11 V
			11/18 ~ 11/19		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	tr(0.09)	MV
Saga 1 ICI.	31	Saga Trefectural Environmental Research Center (Saga City)	10/1 ~ 10/6	u(0.03)	IVI V
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(0.09)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	1 ` ´ I	
			11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	nd	MV
Kagoshima Pref. 34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.13)	HV	
-		and Public Health (Kagoshima City)	11/16 ~ 11/17	1 · · · · · · · · · · · · · · · · · · ·	
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
		( (	9/28 ~ 9/29		
			9/29 ~ 9/30	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

### [20-7] Heptachlorinated naphthalenes/air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 32/35 (Missing value: 0)
Detection Frequency (sample): 32/35 (Missing value: 0)

Detection limit: 0.01 Quantification limit: 0.03

	Aggregated value
Geometric mean	tr(0.02)
Median	tr(0.02)
Maximum	0.12
Minimum	nd

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Ochima Cananal Suhmuafaatuual Dunaan (Halradata Citu)	Sampling dates $10/19 \sim 10/26$		MV
ноккатао	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	tr(0.01)	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
виррого спу	_	Support Art Lark (Support City)	$10/19 \sim 10/20$	na	111
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \sim 10/21$ $10/11 \sim 10/12$	tr(0.01)	HV
Iwate Frei.	3	Sugo Air Quanty Monitoring Station (Takizawa City)		u(0.01)	пν
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	0.12	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.02)	MV
C		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(0.01)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	0.03	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(0.01)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.04	HV
S		, , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/1$	0.03	MV
		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(0.01)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(0.01)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.02)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29	, ,	
		`	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	0.03	HV
		Environment (Kofu City)	9/28 ~ 9/29		'
			$9/29 \sim 9/30$		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	tr(0.02)	MV
rvagano i ici.	13	(Nagano City)	10/23 11/1	11(0.02)	1V1 V
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(0.01)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.04	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	tr(0.02)	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	0.03	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/27$	tr(0.01)	HV
, -50 1101.		, a series and months resident center (respective)	$10/20 \sim 10/27$	=(0.01)	'

Local communities	No.	Monitored sites	Warm	season	Air complor
Local communities	100.	ivionitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(0.01)	HV
·		(Kobe City)	10/19 ~ 10/20	` ′	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	0.07	HV
11414 11011		romer in Quanty Homesting Station (15th 15th)	11/16 ~ 11/17	0.07	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	nd	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	ilu i	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	0.03	HV
Tillosiiilia City	24	Throshinia City Kokutaiji Junioi Tiigii School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	0.03	11 V
** 1:5 0	2.5	Y I'D O I I'V I'V OD IIV Y II	10/28 ~ 10/29	(0.01)	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	tr(0.01)	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	tr(0.01)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(0.01)	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	( , , ,	
		<b>\</b>	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	0.03	MV
Ehime Pref.	29	9 Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(0.02)	HV
23111110 1 1011		(Uwajima City)	11/16 ~ 11/17	11(0.02)	
		(Chajina Chij)	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.06	HV
i ukuoka i ici.	50	Omata City Government Bunding (Omata City)	11/17 ~ 11/18	0.00	11 V
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	tr(0.02)	MV
Saga Fiel.	31	Saga Fretectural Environmental Research Center (Saga City)	10/1 ~ 10/8	u(0.02)	IVI V
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(0.02)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	(1 = )	
			11/17 ~ 11/18	j	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	tr(0.01)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	0.03	HV
5	-	and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
5 KIIM 4 I 101.	55	cape Treat (Tamigaini + mage)	9/28 ~ 9/29	110	11 4
			$9/29 \sim 9/30$	l 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

## [20-8] Octachlorinated naphthalene/air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 32/35 (Missing value: 0)
Detection Frequency (sample): 32/35 (Missing value: 0)

Detection limit : 0.01 Quantification limit : 0.04

	Aggregated value
Geometric mean	tr(0.02)
Median	tr(0.01)
Maximum	0.49
Minimum	nd

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Online Consul Subsurfactural Property (H.I., 1-t. Cit.)	Sampling dates $10/19 \sim 10/26$		MV
ноккатао	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	tr(0.03)	MIV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
варрого спу	_	Support Art Lark (Support City)	$10/19 \sim 10/20$	na	11.
			$10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \approx 10/21$ $10/11 \sim 10/12$	tr(0.01)	HV
Iwate Frei.	3	Sugo Air Quanty Monitoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	u(0.01)	п٧
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	0.27	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(0.01)	MV
C		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(0.01)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(0.01)	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(0.01)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.09	HV
S		, , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	tr(0.02)	MV
		(Yokohama City)		(***=)	
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(0.01)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(0.01)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(0.01)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29	` '	
		`	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	0.12	HV
		Environment (Kofu City)	9/28 ~ 9/29		•
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	0.04	MV
ragano rien	13	(Nagano City)	10/23 11/1	0.01	171 7
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(0.01)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	0.49	MV
			10/16	7	
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	tr(0.02)	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	tr(0.02)	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	tr(0.01)	HV
, .	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10/27 ~ 10/28	` ′	

Local communities	No.	Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(0.01)	HV
·		(Kobe City)	10/19 ~ 10/20	ì í	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	0.06	HV
11414 11011		romer in Quanty Homesting Station (15th 15th)	11/16 ~ 11/17	0.00	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	tr(0.01)	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	11(0.01)	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	tr(0.02)	HV
Tillosiiilia City	24	Throshinia City Kokutaiji Junioi Tiigii School (Tiiroshinia City)	$10/20 \sim 10/27$ $10/27 \sim 10/28$	u(0.02)	11 V
1: D C	2.5	Y 1'D 0 1 1 1 1 1 1 1 1	10/28 ~ 10/29	. (0.01)	3.67
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	tr(0.01)	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(0.01)	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		<b>\</b>	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(0.02)	MV
Ehime Pref.	29	9 Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(0.02)	HV
Ellillic I Ici.	2)	(Uwajima City)	11/16 ~ 11/17	11(0.02)	11 v
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	tr(0.03)	HV
Tukuoka 11ci.	30	Official City Government Building (Official City)	11/17 ~ 11/18	u(0.03)	11 V
			11/17 ~ 11/18		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	tr(0.01)	MV
Saga Prei.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	tr(0.01)	IVI V
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(0.02)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	=(=.02)	
		(,/	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	tr(0.01)	MV
1111) W.Z.W. 11011		Environment (Miyazaki City)	10,20 11,1	4(0.01)	
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(0.03)	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17	`	
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
	22	(	9/28 ~ 9/29		11 ,
			9/29 ~ 9/30	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

# [21] Hexachlorobuta-1,3-diene/air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 35/35 (Missing value: 0)
Detection Frequency (sample): 105/105 (Missing value: 0)

Detection limit : 20 Quantification limit : 40

	Aggregated value
Geometric mean	2,400
Median	2,200
Maximum	11,000
Minimum	1,400

Local communities	No.	Monitored sites	Warm Sampling dates	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates 10/19 ~ 10/20	1,600	LV
поккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	$10/19 \sim 10/20$ $10/20 \sim 10/21$	1,500	LV
			$10/20 \sim 10/21$ $10/21 \sim 10/22$	1,400	
Sapporo City	2	Sapporo Art Park (Sapporo City)	$10/21 \sim 10/22$ $10/18 \sim 10/19$	1,600	LV
Sapporo City		Sapporo Art Park (Sapporo City)	$10/18 \sim 10/19$ $10/19 \sim 10/20$	1,600	LV
				1,600	
Iwate Pref.	2	Const. Air Overlite Manifestine Station (Talainess Site)	$\frac{10/20 \sim 10/21}{10/11 \sim 10/12}$		LV
Iwate Prei.	3	Sugo Air Quality Monitoring Station (Takizawa City)		2,300	LV
			10/12 ~ 10/13	1,900	
			10/13 ~ 10/14	1,800	
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment	10/26 ~ 10/27	1,700	LV
		(Sendai City)	10/27 ~ 10/28	2,000	
			10/28 ~ 10/29	2,000	
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/12 ~ 10/13	2,400	LV
		City)	10/13 ~ 10/14	2,300	
			10/14 ~ 10/15	2,000	
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	$10/12 \sim 10/13$	2,300	LV
		City)	10/13 ~ 10/14	2,400	
	L		10/14 ~ 10/15	2,000	
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/20	1,600	LV
		Protection (Koto Ward)	10/20 ~ 10/21	1,700	
			10/21 ~ 10/22	1,500	
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/8	2,800	LV
		, , , , , , , , , , , , , , , , , , , ,	11/8 ~ 11/9	2,700	
			11/9 ~ 11/10	2,500	
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	2,300	LV
1141146411411111	_	Training with Environmental resources contact (Training and City)	11/9 ~ 11/10	2,200	2.
			11/10 ~ 11/11	2,400	
Yokohama City	na City 10 Yokohama Environmental Science Re	Yokohama Environmental Science Research Institute	$10/25 \sim 10/26$	1,700	LV
i okonama City	10	(Yokohama City)	$10/26 \sim 10/27$	1,600	LV
		(Tokonama City)		1,500	
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	$\frac{10/27 \sim 10/28}{10/11 \sim 10/12}$		LV
Milgata Prei.	11	Oyama Air Quanty Monitoring Station (Milgata City)	************	2,400	LV
			10/12 ~ 10/13	2,400	
T 5 0			10/13 ~ 10/14	2,200	
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	2,500	LV
			10/12 ~ 10/13	2,200	
			10/13 ~ 10/14	2,000	
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	2,900	LV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29	2,300	
			9/29 ~ 9/30	1,900	
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	2,000	LV
		Environment (Kofu City)	9/28 ~ 9/29	2,000	
	<u> </u>		9/29 ~ 9/30	1,800	
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	10/25 ~ 10/26	1,800	LV
		(Nagano City)	10/26 ~ 10/27	1,500	
			10/27 ~ 10/28	1,500	
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	2,000	LV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10	2,000	
			11/10 ~ 11/11	2,300	
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	$10/19 \sim 10/20$	2,000	LV
<i>G</i> ,,		8-7	10/20 ~ 10/21	1,600	
			10/21 ~ 10/22	1,600	
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	$10/21 \sim 10/22$ $10/18 \sim 10/19$	1,500	LV
14110 1 101.	10	(Yokkaichi City)	$10/18 \sim 10/19$ $10/19 \sim 10/20$	1,900	LV
		(1 OKRAIOIII City)	$10/19 \sim 10/20$ $10/20 \sim 10/21$	**************************	
Ogol D. C	10	Ocalra Jaint Brafactural Communit Br. 111 B. 111 C		1,500	1 17
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	1,700	LV
		Annex (Osaka City)	10/26 ~ 10/27	1,700	
**	-		10/27 ~ 10/28	1,800	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	1,600	LV
			10/27 ~ 10/28	2,300	
	l		$10/28 \sim 10/29$	2,400	

Local communities	No.	Monitored sites		season	Air sampler
	INU.	Widiliored Sites	Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	1,500	LV
		(Kobe City)	10/19 ~ 10/20	1,600	
			10/20 ~ 10/21	1,500	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	7,000	LV
			11/16 ~ 11/17	4,600	
			11/17 ~ 11/18	2,700	
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	2,600	LV
		, ,	11/17 ~ 11/18	2,700	
		none in the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the co	11/18 ~ 11/19	4,500	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	1,700	LV
,			10/27 ~ 10/28	3,600	
			10/28 ~ 10/29	3,000	and,
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	$10/5 \sim 10/6$	2,000	LV
i allagaetti i iei.	23	Environment (Yamaguchi City)	$10/6 \sim 10/7$	2,400	£ ,
		(	$10/7 \sim 10/7$	2,200	
	26	Hagi Health and Welfare Center (Hagi City)	$10/7 \sim 10/8$ $10/5 \sim 10/6$	2,200	LV
	20	Tragi freatth and wenare center (fragi city)	$10/6 \sim 10/7$	2,500	Lv
			$10/7 \sim 10/7$	2,300	
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	$11/8 \sim 11/9$	2,500	LV
TOKUSIIIIIa FTCI.	21	Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	2,000	LV
		Environmental Sciences Center (Tokushinia City)	11/10 ~ 11/11	2,700	
Kagawa Pref.	20	Kagawa Prefectural Research Institute for Environmental	$11/10 \sim 11/11$ $11/15 \sim 11/16$	7,600	LV
Kagawa Prei.	28				LV
		Sciences and Public Health (Takamatsu City)	11/16 ~ 11/17	5,900	
El: D C	20		11/17 ~ 11/18	3,200	* * * 7
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	7,000	LV
		(Uwajima City)	11/16 ~ 11/17	5,600	
	20	D 111 (0 + 61)	11/17 ~ 11/18	3,300	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	5,200	LV
			11/17 ~ 11/18	3,700	
			11/18 ~ 11/19	3,700	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/4 \sim 10/5$	2,400	LV
			$10/5 \sim 10/6$	2,100	
			$10/6 \sim 10/7$	2,400	
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	11,000	LV
		Environmental Science (Udo City)	11/16 ~ 11/17	5,800	
			11/17 ~ 11/18	3,500	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	10/25 ~ 10/26	1,900	LV
		Environment (Miyazaki City)	10/26 ~ 10/27	1,700	
			10/27 ~ 10/28	1,900	
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	9,900	LV
		and Public Health (Kagoshima City)	11/16 ~ 11/17	6,700	
			11/17 ~ 11/18	4,600	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	2,700	LV
			9/28 ~ 9/29	2,200	
			9/29 ~ 9/30	2,100	

(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) LV: Low volume air sampler

### [23] Short-chain chlorinated paraffins/air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 31/35 (Missing value: 0)
Detection Frequency (sample): 31/35 (Missing value: 0)

Detection limit: *400 Quantification limit: *1,000

	Aggregated value
Geometric mean	tr(700)
Median	tr(800)
Maximum	2,200
Minimum	nd

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates $10/19 \sim 10/26$		MV
ноккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	tr(400)	MIV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
Баррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	IIG	11 V
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \approx 10/21$ $10/11 \sim 10/12$	tr(400)	HV
Iwate Frei.	3	Sugo Air Quanty Monitoring Station (Takizawa City)		tr(400)	п٧
			10/12 ~ 10/13		
			10/13 ~ 10/14	(0.00)	
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	tr(900)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	nd	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(800)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	1,200	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	1,100	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	1,200	HV
Č		, , , ,	11/9 ~ 11/10	,	
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/1$	1,300	MV
,		(Yokohama City)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(600)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(400)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(700)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29	, ,	
		`	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	1200	HV
		Environment (Kofu City)	9/28 ~ 9/29		'
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	tr(500)	MV
ragano i ici.	13	(Nagano City)	10/23 11/1	11(300)	141 4
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(800)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	1,200	MV
			10/15		
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			$10/20 \sim 10/21$		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	2,200	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	tr(400)	HV
	ĺ		10/27 ~ 10/28		

Local communities	No.	Monitored sites	Warm	season	Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(600)	HV
·		(Kobe City)	10/19 ~ 10/20	ì í	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	1,000	HV
11414 11011		romer in Quanty Homesting Station (15th 15th)	11/16 ~ 11/17	1,000	
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	tr(700)	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	u(700)	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	tr(800)	HV
mirosiiina City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$ $10/27 \sim 10/28$	11(800)	п٧
			10/28 ~ 10/29	4 400	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	1,600	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	1,200	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(700)	HV
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	ì í	
		<b>\</b>	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	1,300	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(700)	HV
Ellillic I Ici.	2)	(Uwajima City)	11/16 ~ 11/17	11(700)	11 v
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	tr(800)	HV
rukuoka Prei.	30	Omuta City Government Building (Omuta City)	$11/16 \sim 11/17$ $11/17 \sim 11/18$	ur(800)	п٧
G B C	2.1		11/18 ~ 11/19	1.100	107
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	1,100	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(600)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17	]	
			11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	1,000	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(800)	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17	1 ` ´ I	
		)	11/17 ~ 11/18	j	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
5.1.11mm u 1 101.	55	cupe Treas (Tambaim + mage)	9/28 ~ 9/29	1100	11 ,
		1	$9/29 \sim 9/30$		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number 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) *: Indicates the sum value of the Quantification [Detection] limits of each substance with the same number of carbons in the alkyl group.

# [23-1] Chlorinated decanes/air (pg/m³)

Monitored year : 2021

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

Detection limit : 100 Quantification limit : 300

	Aggregated value
Geometric mean	300
Median	tr(200)
Maximum	900
Minimum	tr(100)

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates $10/19 \sim 10/26$		MV
ноккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	tr(200)	IMI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	tr(100)	HV
Баррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	u(100)	11 v
			***************************************		
Iwate Pref.	2	Constant Air Constitute Manifestina Chatian (Talainana Cita)	10/20 ~ 10/21	4::(200)	IIV/
Iwate Prei.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	tr(200)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	300	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(200)	MV
		City)		` ′	
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(200)	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	400	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	300	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	300	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	500	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(200)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(200)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(200)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29	· ·	
		,	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	500	HV
		Environment (Kofu City)	9/28 ~ 9/29		
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	tr(200)	MV
ragano rien	13	(Nagano City)	10/23 11/1	11(200)	171 7
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(200)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10	·	
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	300	MV
			10/10	(10.7)	
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	tr(100)	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	900	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	tr(200)	HV
. 0		· · · · · · · · · · · · · · · · · · ·	10/27 ~ 10/28	` ′	
			10/28 ~ 10/29		

Local communities	No.	Monitored sites		season	Air sampler
	INO.		Sampling dates	Measured value	An sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(200)	HV
		(Kobe City)	10/19 ~ 10/20		
			$10/20 \sim 10/21$		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	300	HV
			11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	300	HV
			11/17 ~ 11/18		
			11/18 ~ 11/19	1	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	300	HV
•			10/27 ~ 10/28	j l	
			10/28 ~ 10/29	Ì	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	600	MV
S		Environment (Yamaguchi City)			
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	400	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(200)	HV
101140111114111411		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	11(200)	
		Zivinominomin Solomos Comos (Tomasimina City)	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(200)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(200)	HV
Elillie Tiel.		(Uwajima City)	11/16 ~ 11/17	11(200)	11 1
		(Owajina Orty)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	300	HV
i ukuoku i ici.	50	Omata City Government Building (Omata City)	11/17 ~ 11/18	300	11 V
			11/18 ~ 11/19	1	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	400	MV
V	22	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	t::(200)	1137
Kumamoto Pref.	32			tr(200)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
M: 1:D C	22	M: 1:D C + 11 ('+ C D 11' II 14 1	11/17 ~ 11/18	. (200)	107
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	tr(200)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	300	HV
=		and Public Health (Kagoshima City)	11/16 ~ 11/17	]	
			11/17 ~ 11/18	1	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	tr(100)	HV
			9/28 ~ 9/29	` ` '	
			9/29 ~ 9/30	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.

## [23-2] Chlorinated undecanes/air (pg/m³)

Monitored year: 2021

Detection Frequency (site): 34/35 (Missing value: 0)
Detection Frequency (sample): 34/35 (Missing value: 0)

Detection limit: 80 Quantification limit: 210

	Aggregated value
Geometric mean	290
Median	310
Maximum	850
Minimum	nd

Local communities	No.	Monitored sites	Warm s	Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	Sampling dates 10/19 ~ 10/26		MV
ноккатао	1	Osnima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/20	tr(160)	IVI V
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	tr(80)	HV
Заррого Спу		Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/19$ $10/19 \sim 10/20$	u(80)	11 V
			***************************************		
I A D C	-		10/20 ~ 10/21	(150)	1117
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	tr(150)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	350	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	tr(140)	MV
		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	350	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	560	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	610	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	590	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	490	MV
•		(Yokohama City)			
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	240	HV
			$10/12 \sim 10/13$		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	tr(150)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	290	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
		` <i>''</i>	9/29 ~ 9/30		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	400	HV
		Environment (Kofu City)	9/28 ~ 9/29		•
			9/29 ~ 9/30		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	tr(170)	MV
ragano i ici.	13	(Nagano City)	10/23 11/1	u(170)	141 4
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	350	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	580	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
	L		10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	680	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	tr(190)	HV
, ,		(	10/27 ~ 10/28	` '/	

Local communities	No	No. Monitored sites	Warm	season	Air sampler
Local communities	INO.	Wonnored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	210	HV
·		(Kobe City)	10/19 ~ 10/20		
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	390	HV
rtara r ror.		Tomitim Quality Memoring Station (Tomit ent)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	230	HV
Similane 1 ici.	23	Oki ivational Acid Rain Observatory (Okinosinina Town)	11/17 ~ 11/18	230	11 V
			11/18 ~ 11/19		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/26 \sim 10/27$	270	HV
mirosiiina City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	$10/28 \sim 10/27$ $10/27 \sim 10/28$	270	п٧
				,	
** 1:5 0	2.5	Y	10/28 ~ 10/29	700	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	780	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	610	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	260	HV
2	-	Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10		
		, , , , , , , , , , , , , , , , , , , ,	11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	850	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	350	HV
Ellillic I Ici.	2)	(Uwajima City)	11/16 ~ 11/17	330	11 V
		(Owajima City)	11/17 ~ 11/18		
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	310	HV
rukuoka Piei.	30	Omuta City Government Building (Omuta City)	$11/16 \sim 11/17$ $11/17 \sim 11/18$	310	пν
G B C	2.1		11/18 ~ 11/19	410	107
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	410	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	250	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		` "	11/17 ~ 11/18	1	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	550	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	290	HV
-		and Public Health (Kagoshima City)	11/16 ~ 11/17	1	
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	tr(80)	HV
		1 - (	9/28 ~ 9/29	=()	
			9/29 ~ 9/30	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) 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

## [23-3] Chlorinated dodecanes/air (pg/m³)

Monitored year : 2021

Detection Frequency (site): 27/35 (Missing value: 0) Detection Frequency (sample): 27/35 (Missing value: 0)

Detection limit: 80 Quantification limit: 220

	Aggregated value
Geometric mean	tr(110)
Median	tr(120)
Maximum	370
Minimum	nd

Local communities	No.	Monitored sites	Sampling dates	season Measured value	Air sampler
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	$10/19 \sim 10/26$	nd	MV
Tokkuido	1	Osmina General Suspiciocetalai Barcaa (Tiakodale City)	10/19 10/20	na	111 1
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
support city	_	support in runn (support eng)	10/19 ~ 10/20		
			$10/20 \sim 10/21$		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	$10/20 \sim 10/21$ $10/11 \sim 10/12$	nd	HV
Iwate Fiel.	3	Sugo Ali Quanty Monitoring Station (Takizawa City)	$10/11 \sim 10/12$ $10/12 \sim 10/13$	IIG	ΠV
			10/13 ~ 10/14	(120)	
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	tr(130)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	nd	MV
C		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(110)	MV
		City)		, ,	
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(160)	MV
,		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(130)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	220	HV
· ·		, , , , , , , , , , , , , , , , , , , ,	11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	230	MV
Tenenana eng	10	(Yokohama City)	10/20 11/1	250	111 1
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(100)	HV
_			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	nd	HV
J			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(90)	HV
Ishikawa I Ici.	13	Environmental Science (Kanazawa City)	9/28 ~ 9/29	u(50)	11 4
		Environmental Science (Kanazawa City)	$9/29 \sim 9/30$		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	9/29 ~ 9/30 9/27 ~ 9/28	220	HV
ı amanasın Fiel.	14	Environment (Kofu City)	$9/27 \sim 9/28$ $9/28 \sim 9/29$	220	п٧
		Environment (Kotu City)			
N. D. C	1.5	N F : (1C C P 11 C)	9/29 ~ 9/30	. (00)	107
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	10/25 ~ 11/1	tr(90)	MV
C.C. P. c	1.0	C'C D C . ID II C . C YI II	11/0 11/0	(160)	7777
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(160)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10		
			11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	tr(190)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
	10	(Yokkaichi City)	$10/19 \sim 10/19$	110	11.7
		(Tommon City)	$10/19 \sim 10/20$ $10/20 \sim 10/21$		
Ocalra D£	10	Ocalra Jaint Busfactural Cayaman at Building Building		270	1117
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	370	HV
		Annex (Osaka City)	10/26 ~ 10/27		
	2.		10/27 ~ 10/28		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	10/26 ~ 10/27	nd	HV
			10/27 ~ 10/28		
	1		10/28 ~ 10/29		

Local communities	No.	Monitored sites		season	Air sampler	
	INO.		Sampling dates	Measured value	An sampler	
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(110)	HV	
		(Kobe City)	10/19 ~ 10/20	1		
			10/20 ~ 10/21			
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(190)	HV	
			11/16 ~ 11/17			
			11/17 ~ 11/18			
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	tr(110)	HV	
		, , , , , , , , , , , , , , , , , , ,	11/17 ~ 11/18			
			11/18 ~ 11/19	1		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	tr(140)	HV	
•		, , , , , , , , , , , , , , , , , , , ,	10/27 ~ 10/28	` ′		
			10/28 ~ 10/29	ĺ		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	10/1 ~ 10/8	tr(160)	MV	
T WILLIAM T TOTA	20	Environment (Yamaguchi City)	10/1 10/0	u(100)	1.2 1	
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	tr(100)	MV	
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(140)	HV	
		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	` ′		
		•	11/10 ~ 11/11			
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(130)	MV	
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(90)	HV	
Emme 1 ter.	2)	(Uwajima City)	11/16 ~ 11/17	u(50)	11 v	
		(Owajina Oity)	11/17 ~ 11/18			
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	tr(120)	HV	
I ukuoku I ICI.	50	omata city deverminent Banding (omata city)	11/17 ~ 11/18	u(120)	111	
			11/18 ~ 11/19	1		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	230	MV	
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(100)	HV	
		Environmental Science (Udo City)	11/16 ~ 11/17	]		
			11/17 ~ 11/18			
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand Environment (Miyazaki City)	10/25 ~ 11/1	tr(130)	MV	
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(130)	HV	
		and Public Health (Kagoshima City)	11/16 ~ 11/17			
			11/17 ~ 11/18	]		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV	
			9/28 ~ 9/29	1		
			9/29 ~ 9/30	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

# [23-4] Chlorinated tridecanes/air (pg/m³)

Monitored year : 2021

Detection Frequency (site): 26/35 (Missing value: 0)
Detection Frequency (sample): 26/35 (Missing value: 0)

Detection limit : 100 Quantification limit : 300

	Aggregated value
Geometric mean	nd
Median	tr(100)
Maximum	tr(200)
Minimum	nd

Local communities	No.	Monitored sites		Season Maggard value	Air sampler
II.al.d!.d	1	Ochima Cananal Suhmasfastara Decrease (U. 1. 1.4. Cit.)	Sampling dates	Measured value	1477
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	nd	MV
Common- Cit-	2	Company Ant Doub (Company City)	10/10 10/10	n d	HV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	nd	HV
			10/19 ~ 10/20		
			10/20 ~ 10/21		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	nd	HV
			$10/12 \sim 10/13$		
			$10/13 \sim 10/14$		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	tr(100)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	10/8 ~ 10/15	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	tr(100)	MV
Todraki i ici.	0	City)	10/12 ~ 10/19	u(100)	IVI V
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	tr(100)	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	tr(100)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(100)	HV
		(	11/9 ~ 11/10	=(-++)	
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	$10/25 \sim 11/11$	tr(100)	MV
i okonama City	10	(Yokohama City)	10/23 - 11/1	u(100)	1 <b>V1 V</b>
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	tr(100)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	nd	HV
•			10/12 ~ 10/13		
			10/13 ~ 10/14		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	tr(100)	HV
		Environmental Science (Kanazawa City)	9/28 ~ 9/29	-()	
		()	$9/29 \sim 9/30$		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and	$9/27 \sim 9/28$	tr(100)	HV
		Environment (Kofu City)	9/28 ~ 9/29	(100)	11.7
		Zin in outside (15014 City)	$9/29 \sim 9/30$		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$9/29 \sim 9/30$ $10/25 \sim 11/1$	nd	MV
nagano rici.	13	(Nagano City)	10/25 ~ 11/1	nu	1 <b>V1 V</b>
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	tr(100)	HV
		Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10	( /	•
		, , , , , , , , , , , , , , , , , , ,	11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	tr(100)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	nd	HV
		(Yokkaichi City)	10/19 ~ 10/20		
			10/20 ~ 10/21		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	tr(200)	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			$10/27 \sim 10/28$		
Hyogo Pref	20	Hyogo Prefectural Environmental Research Center (Kobe City)		nd	HV
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/27$ $10/27 \sim 10/28$	nd	HV

Local communities	No.	Monitored sites	Warm season		Air sampler
Local communities	INO.	Monitored sites	Sampling dates	Measured value	Air sampler
Kobe City	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	tr(100)	HV
·		(Kobe City)	10/19 ~ 10/20	ì í	
			10/20 ~ 10/21	1	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	tr(100)	HV
rtara i ici.		Tomi in Quality Monitoring Station (Temi Oily)	11/16 ~ 11/17	u(100)	11 1
			11/17 ~ 11/18		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	$11/17 \sim 11/18$ $11/16 \sim 11/17$	tr(100)	HV
Sililiane Fiel.	23	Okt National Acid Kani Observatory (Okinosinna Town)	11/10 ~ 11/17	u(100)	11 V
			11/17 ~ 11/18	1	
II. 1. C.	2.4	H. 1. C. K. 1 I. 1 C. 1 . (L. 1 C. )		. (100)	1137
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	tr(100)	HV
			10/27 ~ 10/28		
			10/28 ~ 10/29		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	10/1 ~ 10/8	tr(100)	MV
	26	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	tr(100)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	tr(100)	HV
Tokusiiiiiu TTCI.		Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10	-()	
			11/10 ~ 11/11		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	tr(100)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	tr(100)	HV
Emine 1 lei.		(Uwajima City)	11/16 ~ 11/17	11(100)	11 1
		(Owajima City)	11/17 ~ 11/18	1	
Fukuoka Pref.	30	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	tr(100)	HV
Tukuoka 11ci.	30	Official City Government Building (Official City)	11/17 ~ 11/18	u(100)	11 V
				1	
C D C	2.1		$\frac{11/18 \sim 11/19}{10/1 \sim 10/8}$	(100)	3.637
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	10/1 ~ 10/8	tr(100)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	tr(100)	HV
		Environmental Science (Udo City)	11/16 ~ 11/17		
		· ( <del></del> y)	11/17 ~ 11/18		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	$10/25 \sim 11/1$	tr(100)	MV
, uzumi 1 101.	33	Environment (Miyazaki City)	10/20 11/1	4(100)	141 4
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	tr(100)	HV
		and Public Health (Kagoshima City)	11/16 ~ 11/17		
			11/17 ~ 11/18		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	nd	HV
		1 (8-)	9/28 ~ 9/29		
			9/29 ~ 9/30	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

### [25] Perfluorohexane sulfonic acid (PFHxS)/air (pg/m³)

Monitored year : 2021

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

Detection limit : 0.07 Quantification limit : 0.18

	Aggregated value		
Geometric mean	2.2		
Median	2.3		
Maximum	6.6		
Minimum	0.46		

Local communities	No.	Monitored sites	Warm s		Air sampler
TT-1-1: 1-	1	Online Consul Submoderate Decree (Haladate Cita)	Sampling dates	Measured value	MX
Hokkaido	1	Oshima General Subprefectural Bureau (Hakodate City)	10/19 ~ 10/26	5.4	MV
Sapporo City 2	2	Sapporo Art Park (Sapporo City)	10/18 ~ 10/19	1.3	HV
Баррого Спу	_	Sapporo Art I ark (Sapporo City)	$10/19 \sim 10/20$	1.5	11 V
			$10/19 \sim 10/20$ $10/20 \sim 10/21$		
	Constant Air Constitute Manifestina Chatian (Talainana Cita)		1.9	HV	
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	10/11 ~ 10/12	1.9	HV
		10/12 ~ 10/13			
		10/13 ~ 10/14			
Miyagi Pref.		Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/26 ~ 11/2	5.6	MV
Yamagata Pref. 5	5	Yamagata Institute of Environmental Sciences (Murayama	10/8 ~ 10/15	6.0	MV
1guiu 1 101.		City)			
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura	10/12 ~ 10/19	6.0	MV
		City)			
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental	10/19 ~ 10/26	3.9	MV
		Protection (Koto Ward)			
	8	Chichijima Island (Ogasawara Village)	11/7 ~ 11/14	5.5	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	1.3	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute	10/25 ~ 11/1	4.1	MV
, i		(Yokohama City)			
Niigata Pref. 11 Oyama Ai	Oyama Air Quality Monitoring Station (Niigata City)	10/11 ~ 10/12	2.3	HV	
		10/12 ~ 10/13			
		10/13 ~ 10/14			
Toyama Pref. 12 T	12	Tonami Air Quality Monitoring Station (Tonami City)	10/11 ~ 10/12	1.3	HV
			10/12 ~ 10/13		
		10/13 ~ 10/14			
	Ishikawa Prefectural Institute of Public Health and	9/27 ~ 9/28	2.0	HV	
		Environmental Science (Kanazawa City)	9/28 ~ 9/29		
	, , , , , , , , , , , , , , , , , , , ,	9/29 ~ 9/30			
	Yamanashi Prefectural Institute of Public Health and	9/27 ~ 9/28	1.2	HV	
	Environment (Kofu City)	9/28 ~ 9/29		•	
		$9/29 \sim 9/30$			
Nagano Pref.	15	Nagano Environmental Conservation Research Institute	$10/25 \sim 11/1$	5.1	MV
ragano i ici.	13	(Nagano City)	10/23 11/1	5.1	171 7
	Gifu Prefectural Research Institute for Health and	11/8 ~ 11/9	2.3	HV	
	Environmental Sciences (Kakamigahara City)	11/9 ~ 11/10			
		, , , , , , , , , , , , , , , , , , ,	11/10 ~ 11/11		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/19 ~ 10/26	4.4	MV
			_		
	18	Mie Prefecture Health and Environment Research Institute	10/18 ~ 10/19	1.3	HV
		(Yokkaichi City)	10/19 ~ 10/20		
		10/20 ~ 10/21			
Osaka Pref. 19	19	Osaka Joint Prefectural Government Building, Building 2	10/25 ~ 10/26	1.4	HV
		Annex (Osaka City)	10/26 ~ 10/27		
			$10/27 \sim 10/28$		
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	$10/26 \sim 10/28$	1.1	HV
Hynon Pret		111, one i rerectarar Entri Omnicinar rescalen Center (1800C City)	10/20 10/2/	1.1	11 4
Hyogo Pref.			10/27 ~ 10/28		

Local communities	No.	Monitored sites	Warm season		Air sampler
Local communities	INO.		Sampling dates	Measured value	An sampler
•	21	Kobe City Institute of Health and Environmental Sciences	10/18 ~ 10/19	1.0	HV
		(Kobe City)	10/19 ~ 10/20		
		10/20 ~ 10/21			
Nara Pref. 22 Tenri Air	Tenri Air Quality Monitoring Station (Tenri City)	11/15 ~ 11/16	0.87	HV	
		11/16 ~ 11/17			
		11/17 ~ 11/18			
Shimane Pref. 23 Oki National Acid Rain (	23	Oki National Acid Rain Observatory (Okinoshima Town)	11/16 ~ 11/17	0.46	HV
	,	11/17 ~ 11/18			
		11/18 ~ 11/19			
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/26 ~ 10/27	0.76	HV
,			10/27 ~ 10/28	.,,,	
		10/28 ~ 10/29			
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and	$10/1 \sim 10/8$	5.2	MV
Environment (Yam	23	Environment (Yamaguchi City)	10/1 - 10/6	3.2	1 <b>V1 V</b>
	Hagi Health and Welfare Center (Hagi City)	10/1 ~ 10/8	6.6	MV	
	Tokushima Prefectural Public Health, Pharmaceutical and	11/8 ~ 11/9	3.2	HV	
	Environmental Sciences Center (Tokushima City)	11/9 ~ 11/10			
	, , , , , , , , , , , , , , , , , , ,	11/10 ~ 11/11			
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	11/12 ~ 11/19	4.8	MV
Ehime Pref. 29 Ehime Prefectural C (Uwajima City)	me Prefectural Government Nanyo Regional Office	11/15 ~ 11/16	0.81	HV	
		11/16 ~ 11/17	0.01	11 1	
	(Cwajina City)	11/17 ~ 11/18			
Fukuoka Pref. 30 Omuta City Government I	Omuta City Government Building (Omuta City)	11/16 ~ 11/17	0.76	HV	
	Omata City Government Building (Omata City)	11/17 ~ 11/18	0.70	11 V	
		11/18 ~ 11/19			
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	$10/1 \sim 10/8$	3.8	MV
2 mg w 1 1 m	01	Caga 1.10100 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11 and 2.11	10/1 10/0		112 1
	Kumamoto Prefectural Institute of Public Health and	11/15 ~ 11/16	0.52	HV	
	Environmental Science (Udo City)	11/16 ~ 11/17	0.52	11.	
	Zin in similari is serence (e do eng)	11/17 ~ 11/18			
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Healthand	10/25 ~ 11/1	4.0	MV
· · · · · · · · · · · · · · · · · · ·	Environment (Miyazaki City)	10/20 11/1	4.0	1 <b>V1 V</b>	
	Kagoshima Prefectural Institute for Environmental Research	11/15 ~ 11/16	0.86	HV	
	and Public Health (Kagoshima City)	11/16 ~ 11/17			
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11/17 ~ 11/18			
Okinawa Pref. 35 Cape Hedd	Cape Hedo (Kunigami Village)	9/27 ~ 9/28	3.3	HV	
		(.zw5	9/28 ~ 9/29		11.
		1	$9/29 \sim 9/30$	l 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.