



Radiation Measurement Results of 116 Items in January





When samples include natural radionuclides we can't deny the possibility of their radiation value counted together in our results.

The list below only shows the measurement results of the samples brought in.

Radioactive contamination level may differ according to sampling points even within the same address.

★Gamma-ray

Measuring instrument		Feature	Guide to lower limit※
Na I Scintillation Spectrometer			
Product of ATOMETX AT1320A 	Product of BERTHOLD LB2045 	· Gamma-ray spectrometer with Na I scintillation detector.	Food (Sample 1kg) Lower limit 1.0Bq/Kg
			Soil (Sample 1kg) Lower limit 2.5Bq/Kg
			Material (Sample 1kg) Lower limit 1.0Bq/Kg
			Water (Sample 20L) Lower limit 0.02Bq/L

※The lower limit varies depending on the sample weight and measurement time.

Measuring instrument: Na I Scintillation Spectrometer (Bq/kg raw: Weight of raw sample Bq/kg dry: Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty	Total Amount of Cesium	Minimum Limit of Detection	
Pumpkin	Ogoe, Tamura, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.5 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.4 Bq/kg raw
Spaghetti squash	Otama, Adachi, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.1 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.9 Bq/kg raw
Carrot	Hirono, Futaba, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.8 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.7 Bq/kg raw
Carrot	Shirakawa, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.4 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.1 Bq/kg raw
Onion	Nihonmatsu, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.7 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.6 Bq/kg raw
Japanese white radish	Yabuki, Nishishirakawa, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.7 Bq/kg raw
Round Japanese white radish	Hirono, Futaba, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.8 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.6 Bq/kg raw
Japanese red radish	Otama, Adachi, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.8 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.7 Bq/kg raw
Turnip	Sukagawa, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.8 Bq/kg raw
Cabbage	Motomiya, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.5 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.3 Bq/kg raw
Chinese cabbage	Hirono, Futaba, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.8 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.6 Bq/kg raw
Chinese cabbage	Sukagawa, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.7 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.6 Bq/kg raw
Chinese cabbage	Sukagawa, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.0 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.9 Bq/kg raw
Yam	Hirono, Futaba, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.4 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.1 Bq/kg raw
Grated yam	Motomiya, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.3 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.1 Bq/kg raw
Jerusalem artichoke	Motomiya, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.1 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.0 Bq/kg raw
Spinach	Motomiya, Fukushima	Jan-23	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.1 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.8 Bq/kg raw

※"—" used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.



★Gamma-ray

(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Green onion	Iwaki City	Jan-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.3 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.8 Bq/kg raw
Burdock	Otama, Adachi, Fukushima	Jan-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.6 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	2.4 Bq/kg raw
Burdock	Nihonmatsu, Fukushima	Dec-22	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.7 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	2.5 Bq/kg raw
Yacon	Otama, Adachi, Fukushima	Jan-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.0 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.8 Bq/kg raw
Yacon	Hirono, Futaba, Fukushima	Jan-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.8 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.7 Bq/kg raw
Yacon	Hirata, Ishikawa, Fukushima	Dec-22	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.3 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.2 Bq/kg raw
Udo	Samegawa, Higashishirakawa, Fukushima	Jan-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.4 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.1 Bq/kg raw
Apple	Ogoe, Tamura, Fukushima	Jan-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.5 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	2.3 Bq/kg raw
Apple(pulp)	Katsurao, Futaba, Fukushima	Jan-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.3 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	2.1 Bq/kg raw
Apple(peel)	Katsurao, Futaba, Fukushima	Jan-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.6 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	3.0 Bq/kg raw
Kiwi fruit	Nihonmatsu, Fukushima	Jan-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.5 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.2 Bq/kg raw
Yuzu	Nogami, Okuma, Futaba, Fukushima	Jan-23	Cs137	32.2 Bq/kg raw	±	4.1 Bq/kg raw	32.2	Cs137	1.6 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.2 Bq/kg raw
Soybeans	Nihonmatsu, Fukushima	Jan-23	Cs137	7.0 Bq/kg raw	±	1.6 Bq/kg raw	7.0	Cs137	1.3 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.0 Bq/kg raw
Black soybeans	Hirata, Ishikawa, Fukushima	Dec-22	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.3 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.1 Bq/kg raw
Shitake mushroom grown in bacteria-bed (Lentinula edodes)	Otama, Adachi, Fukushima	Jan-23	Cs137	3.1 Bq/kg raw	±	1.2 Bq/kg raw	3.1	Cs137	1.5 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.2 Bq/kg raw
Tofu	Otama, Adachi, Fukushima	Jan-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.4 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	2.0 Bq/kg raw
Dried buckwheat noodle	Hirata, Ishikawa, Fukushima	Dec-22	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.4 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.2 Bq/kg raw
Soil(in the park) under the jungle gym	Ishinazakadanchi Park Tairakamata, Iwaki	Jan-23	Cs137	4340.0 Bq/kg dry	±	440.0 Bq/kg dry	4446.0	Cs137	4.8 Bq/kg dry
			Cs134	106.0 Bq/kg dry	±	11.7 Bq/kg dry		Cs134	4.4 Bq/kg dry
Soil (in the park)	Ishinazakadanchi Park Tairakamata, Iwaki	Jan-23	Cs137	1500.0 Bq/kg dry	±	152.0 Bq/kg dry	1536.6	Cs137	2.1 Bq/kg dry
			Cs134	36.6 Bq/kg dry	±	4.2 Bq/kg dry		Cs134	2.2 Bq/kg dry
Soil (in the park)	Ishinazakadanchi Park Tairakamata, Iwaki	Jan-23	Cs137	597.0 Bq/kg dry	±	61.1 Bq/kg dry	612.6	Cs137	1.9 Bq/kg dry
			Cs134	15.6 Bq/kg dry	±	2.1 Bq/kg dry		Cs134	2.3 Bq/kg dry
Soil (in the park)	Ishinazakadanchi Park Tairakamata, Iwaki	Jan-23	Cs137	551.0 Bq/kg dry	±	56.3 Bq/kg dry	564.5	Cs137	1.4 Bq/kg dry
			Cs134	13.5 Bq/kg dry	±	1.7 Bq/kg dry		Cs134	1.7 Bq/kg dry
Soil(in the park) under the large playset	Ishinazakadanchi Park Tairakamata, Iwaki	Jan-23	Cs137	482.0 Bq/kg dry	±	50.5 Bq/kg dry	492.6	Cs137	2.4 Bq/kg dry
			Cs134	10.6 Bq/kg dry	±	1.7 Bq/kg dry		Cs134	2.9 Bq/kg dry
Soil(in the park) under the slide	Ishinazakadanchi Park Tairakamata, Iwaki	Jan-23	Cs137	413.0 Bq/kg dry	±	42.8 Bq/kg dry	422.4	Cs137	2.4 Bq/kg dry
			Cs134	9.4 Bq/kg dry	±	1.6 Bq/kg dry		Cs134	2.9 Bq/kg dry
Soil(in the park) under the swing	Ishinazakadanchi Park Tairakamata, Iwaki	Jan-23	Cs137	379.0 Bq/kg dry	±	39.9 Bq/kg dry	389.0	Cs137	2.6 Bq/kg dry
			Cs134	10.0 Bq/kg dry	±	1.8 Bq/kg dry		Cs134	3.1 Bq/kg dry

※"_" used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.

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(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection		
Soil (in the park)	Ishinazakadanchi Park Tairakamata, Iwaki	Jan-23	Cs137	349.0	Bq/kg dry	± 35.8	357.4	Cs137	1.4	Bq/kg dry
			Cs134	8.4	Bq/kg dry	± 1.2		Cs134	1.8	Bq/kg dry
Soil (in the park)	Ishinazakadanchi Park Tairakamata, Iwaki	Jan-23	Cs137	292.0	Bq/kg dry	± 30.1	298.9	Cs137	1.5	Bq/kg dry
			Cs134	6.9	Bq/kg dry	± 1.1		Cs134	1.8	Bq/kg dry
Soil(in the park) Sandbox	Ishinazakadanchi Park Tairakamata, Iwaki	Jan-23	Cs137	127.0	Bq/kg dry	± 13.2	129.8	Cs137	0.9	Bq/kg dry
			Cs134	2.8	Bq/kg dry	± 0.5		Cs134	1.1	Bq/kg dry
Soil(in the park) under the bench	Kuramae Park Tairakuramae, Iwaki	Jan-23	Cs137	571.0	Bq/kg dry	± 58.3	585.0	Cs137	1.6	Bq/kg dry
			Cs134	14.0	Bq/kg dry	± 1.8		Cs134	1.9	Bq/kg dry
Soil (in the park)	Kuramae Park Tairakuramae, Iwaki	Jan-23	Cs137	452.0	Bq/kg dry	± 47.1	462.9	Cs137	2.6	Bq/kg dry
			Cs134	10.9	Bq/kg dry	± 1.8		Cs134	3.1	Bq/kg dry
Soil (in the park)	Kuramae Park Tairakuramae, Iwaki	Jan-23	Cs137	42.4	Bq/kg dry	± 43.6	51.8	Cs137	1.5	Bq/kg dry
			Cs134	9.4	Bq/kg dry	± 1.4		Cs134	1.8	Bq/kg dry
Soil(in the park) under the slide	Kuramae Park Tairakuramae, Iwaki	Jan-23	Cs137	414.0	Bq/kg dry	± 42.4	425.7	Cs137	1.3	Bq/kg dry
			Cs134	11.7	Bq/kg dry	± 1.6		Cs134	1.5	Bq/kg dry
Soil (in the park)	Kuramae Park Tairakuramae, Iwaki	Jan-23	Cs137	260.0	Bq/kg dry	± 26.8	267.3	Cs137	1.4	Bq/kg dry
			Cs134	7.3	Bq/kg dry	± 1.2		Cs134	1.6	Bq/kg dry
Soil (in the park)	Kuramae Park Tairakuramae, Iwaki	Jan-23	Cs137	234.0	Bq/kg dry	± 24.2	239.9	Cs137	1.4	Bq/kg dry
			Cs134	5.9	Bq/kg dry	± 1.0		Cs134	1.7	Bq/kg dry
Soil(in the park) under the basketball goal	Kuramae Park Tairakuramae, Iwaki	Jan-23	Cs137	159.0	Bq/kg dry	± 17.4	159.0	Cs137	4.0	Bq/kg dry
			Cs134	—	Bq/kg dry	± —		Cs134	3.7	Bq/kg dry
Soil(in the park) under the horizontal bar	Kuramae Park Tairakuramae, Iwaki	Jan-23	Cs137	131.0	Bq/kg dry	± 14.2	131.0	Cs137	2.9	Bq/kg dry
			Cs134	—	Bq/kg dry	± —		Cs134	3.4	Bq/kg dry
Soil(in the park) under the swing	Kuramae Park Tairakuramae, Iwaki	Jan-23	Cs137	110.0	Bq/kg dry	± 12.0	110.0	Cs137	2.3	Bq/kg dry
			Cs134	—	Bq/kg dry	± —		Cs134	2.8	Bq/kg dry
Soil (in the park)	Kuramae Park Tairakuramae, Iwaki	Jan-23	Cs137	—	Bq/kg dry	± —	Under Minimum Limit of Detection	Cs137	2.8	Bq/kg dry
			Cs134	—	Bq/kg dry	± —		Cs134	2.5	Bq/kg dry
Soil (in the park)	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	591.0	Bq/kg dry	± 60.3	604.0	Cs137	1.5	Bq/kg dry
			Cs134	13.0	Bq/kg dry	± 1.7		Cs134	1.8	Bq/kg dry
Soil (in the park)	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	580.0	Bq/kg dry	± 59.0	594.6	Cs137	1.4	Bq/kg dry
			Cs134	14.6	Bq/kg dry	± 1.8		Cs134	1.6	Bq/kg dry
Soil (in the park)	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	518.0	Bq/kg dry	± 53.7	530.4	Cs137	2.4	Bq/kg dry
			Cs134	12.4	Bq/kg dry	± 1.9		Cs134	2.8	Bq/kg dry
Soil(in the park) under the bench	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	499.0	Bq/kg dry	± 51.0	510.2	Cs137	1.3	Bq/kg dry
			Cs134	11.2	Bq/kg dry	± 1.5		Cs134	1.6	Bq/kg dry
Soil(in the park) under the maze	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	378.0	Bq/kg dry	± 39.3	387.6	Cs137	1.9	Bq/kg dry
			Cs134	9.6	Bq/kg dry	± 1.5		Cs134	2.1	Bq/kg dry
Soil (in the park)	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	275.0	Bq/kg dry	± 29.1	284.5	Cs137	2.8	Bq/kg dry
			Cs134	9.5	Bq/kg dry	± 1.8		Cs134	3.2	Bq/kg dry
Soil(in the park) under the swing	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	219.0	Bq/kg dry	± 22.7	223.3	Cs137	1.3	Bq/kg dry
			Cs134	4.3	Bq/kg dry	± 0.8		Cs134	1.6	Bq/kg dry
Soil(in the park) under the bench	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	208.0	Bq/kg dry	± 21.4	213.7	Cs137	1.0	Bq/kg dry
			Cs134	5.7	Bq/kg dry	± 0.8		Cs134	1.2	Bq/kg dry
Soil (in the park)	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	203.0	Bq/kg dry	± 21.0	209.1	Cs137	1.2	Bq/kg dry
			Cs134	6.1	Bq/kg dry	± 0.9		Cs134	1.5	Bq/kg dry
Soil(in the park) under the basketball goal	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	77.8	Bq/kg dry	± 8.7	77.8	Cs137	2.7	Bq/kg dry
			Cs134	—	Bq/kg dry	± —		Cs134	2.5	Bq/kg dry
Soil(in the park) Sandbox	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	77.1	Bq/kg dry	± 8.6	77.1	Cs137	2.4	Bq/kg dry
			Cs134	—	Bq/kg dry	± —		Cs134	2.2	Bq/kg dry

※"_" used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.



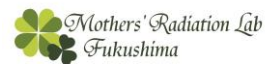
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(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)



Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Soil(in the park) under the rest area	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	57.6 <small>Bq/kg dry</small>	± 6.2 <small>Bq/kg dry</small>	57.6	Cs137	1.3 <small>Bq/kg dry</small>	
			Cs134	— <small>Bq/kg dry</small>	± — <small>Bq/kg dry</small>		Cs134	1.5 <small>Bq/kg dry</small>	
Soil(in the park) under the playground equipment	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	38.3 <small>Bq/kg dry</small>	± 4.6 <small>Bq/kg dry</small>	38.3	Cs137	1.9 <small>Bq/kg dry</small>	
			Cs134	— <small>Bq/kg dry</small>	± — <small>Bq/kg dry</small>		Cs134	2.3 <small>Bq/kg dry</small>	
Soil(in the park) under the slide	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	52.6 <small>Bq/kg dry</small>	± 5.9 <small>Bq/kg dry</small>	52.6	Cs137	1.9 <small>Bq/kg dry</small>	
			Cs134	— <small>Bq/kg dry</small>	± — <small>Bq/kg dry</small>		Cs134	2.3 <small>Bq/kg dry</small>	
Soil(in the park) under the bench	Shirado Park Taira-aiya, Iwaki	Jan-23	Cs137	50.1 <small>Bq/kg dry</small>	± 5.4 <small>Bq/kg dry</small>	50.1	Cs137	1.3 <small>Bq/kg dry</small>	
			Cs134	— <small>Bq/kg dry</small>	± — <small>Bq/kg dry</small>		Cs134	1.2 <small>Bq/kg dry</small>	

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Measuring instrument		Feature		Guide to lower limit※	
Germanium Semiconductor detector					
ORTEC GEM30-70	CANBERRA GC4020	・ Radioactivity measurement series. Quantitative analysis based on "Gamma-ray spectrometry with germanium semiconductor detector." ・ ORTEC GEM30-70 Relative efficiency 35% ・ CANBERRA GC4020 Relative efficiency 43%		Food (Sample 2kg)	Lower limit 0.04Bq/Kg
				Soil (Sample 1kg)	Lower limit 0.06Bq/Kg
				Material (Sample 1kg)	Lower limit 0.06Bq/Kg
				Water (Sample 20L)	Lower limit 0.001Bq/L

※The lower limit varies depending on the sample weight and measurement time.

Measuring instrument: Germanium Semiconductor detector (Bq/kg raw: Weight of raw sample Bq/kg dry: Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measuring instrument type	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Rice	Okuma, Futaba, Fukushima	Oct-22	CA	Cs137	0.31 Bq/kg raw	± 0.01 Bq/kg raw	0.31	Cs137	0.03 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.03 Bq/kg raw	
Japanese white radish(pulp)	Ogawa, Iwaki	Jan-23	CA	Cs137	0.08 Bq/kg raw	± 0.03 Bq/kg raw	0.08	Cs137	0.06 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.06 Bq/kg raw	
Japanese white radish(leaves)	Ogawa, Iwaki	Jan-23	OR	Cs137	0.23 Bq/kg raw	± 0.04 Bq/kg raw	0.23	Cs137	0.08 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.09 Bq/kg raw	
Broccoli	Fukushima Pref.	Jan-23	CA	Cs137	7.8 Bq/kg raw	± 0.5 Bq/kg raw	7.8	Cs137	0.9 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.8 Bq/kg raw	
Yuzu	Ogawa, Iwaki	Jan-23	OR	Cs137	0.4 Bq/kg raw	± 0.07 Bq/kg raw	0.4	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Green onion	Ogawa, Iwaki	Jan-23	CA	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Chinese citron	Onahama-shimokajiro, Iwaki	Dec-22	OR	Cs137	0.17 Bq/kg raw	± 0.03 Bq/kg raw	0.17	Cs137	0.05 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.06 Bq/kg raw	
Dried sweet potato	Hokota, Ibaraki	Dec-22	OR	Cs137	5.1 Bq/kg raw	± 0.1 Bq/kg raw	5.26	Cs137	0.13 Bq/kg raw	
				Cs134	0.16 Bq/kg raw	± 0.06 Bq/kg raw		Cs134	0.12 Bq/kg raw	
Amazake (fermented rice drink)	Okuma, Futaba, Fukushima	Dec-22	OR	Cs137	0.07 Bq/kg raw	± 0.02 Bq/kg raw	0.07	Cs137	0.05 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.05 Bq/kg raw	
Flounder	Tomioka Port/ Fukushima Pref.	Nov-22	OR	Cs137	0.5 Bq/kg raw	± 0.05 Bq/kg raw	0.5	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
white croaker	Hisanohama Port/ Fukushima Pref.	Nov-22	CA	Cs137	0.18 Bq/kg raw	± 0.06 Bq/kg raw	0.18	Cs137	0.12 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.13 Bq/kg raw	
Crimson sea bream	Hisanohama Port/ Fukushima Pref.	Nov-22	CA	Cs137	0.28 Bq/kg raw	± 0.10 Bq/kg raw	0.28	Cs137	0.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.2 Bq/kg raw	
Barracuda	Hisanohama Port/ Fukushima Pref.	Nov-22	OR	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.2 Bq/kg raw	
Sea bass	Haragama Port/ Fukushima Pref.	Dec-22	CA	Cs137	0.3 Bq/kg raw	± 0.05 Bq/kg raw	0.3	Cs137	0.09 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Gurnard	Haragama Port/ Fukushima Pref.	Dec-22	OR	Cs137	0.3 Bq/kg raw	± 0.05 Bq/kg raw	0.3	Cs137	0.09 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Japanese horse mackerel	Hisanohama Port/ Fukushima Pref.	Nov-22	OR	Cs137	0.5 Bq/kg raw	± 0.1 Bq/kg raw	0.5	Cs137	0.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.2 Bq/kg raw	
Hard clam	Chiba Pref.	Nov-22	CA	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	4.0 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	4.3 Bq/kg raw	
Black bus	Fujiwara River/ Fukushima Pref.	Oct-22	OR	Cs137	2.5 Bq/kg raw	± 0.1 Bq/kg raw	2.5	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.2 Bq/kg raw	
Sea cucumber	Iwate Pref.	Jan-23	OR	Cs137	0.7 Bq/kg raw	± 0.06 Bq/kg raw	0.7	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	

※"_"used in Measurement Result and Uncertainty shows that the value is below the detection limit.



But it does not necessary mean 0(zero)Bq/kg.

Samples	Sampling Point	Sampling Month	Measuring instrument type	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Suspended solids in seawater (surface)	Off the coast of Fukushima Nuclear Power Plant1 Point A	Nov-22	OR	Cs137	0.008 Bq/L	± 0.001 Bq/L	0.008	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (lower)	Off the coast of Fukushima Nuclear Power Plant1 Point A	Nov-22	CA	Cs137	0.027 Bq/L	± 0.001 Bq/L	0.027	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (surface)	Off the coast of Fukushima Nuclear Power Plant1 Point B	Nov-22	CA	Cs137	0.003 Bq/L	± 0.0007 Bq/L	0.003	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (surface)	Off the coast of Fukushima Nuclear Power Plant1 Point C	Nov-22	CA	Cs137	0.002 Bq/L	± 0.0007 Bq/L	0.002	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (lower)	Off the coast of Fukushima Nuclear Power Plant1 Point C	Nov-22	CA	Cs137	0.004 Bq/L	± 0.0008 Bq/L	0.004	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (surface)	Off the coast of Fukushima Nuclear Power Plant1 Point D	Nov-22	CA	Cs137	0.005 Bq/L	± 0.0008 Bq/L	0.005	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (lower)	Off the coast of Fukushima Nuclear Power Plant1 Point D	Nov-22	OR	Cs137	0.024 Bq/L	± 0.001 Bq/L	0.024	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.002 Bq/L	
Suspended solids in lake water (surface)	Lake Kasumigaura Point A/ Ibaraki Pref.	Oct-22	OR	Cs137	0.002 Bq/L	± 0.0008 Bq/L	0.002	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in lake water (lower)	Lake Kasumigaura Point A/ Ibaraki Pref.	Oct-22	OR	Cs137	0.018 Bq/L	± 0.002 Bq/L	0.018	Cs137	0.003 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.004 Bq/L	
Suspended solid in lake water (surface)	Lake Kasumigaura Point B/ Ibaraki Pref.	Oct-22	CA	Cs137	— Bq/L	± — Bq/L	Under Minimum Limit of Detection	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Soil	Ogawa, Iwaki	Jan-23	CA	Cs137	180.7 Bq/kg dry	± 1.4 Bq/kg dry	185.5	Cs137	0.7 Bq/kg dry	
				Cs134	4.8 Bq/kg dry	± 0.3 Bq/kg dry		Cs134	0.7 Bq/kg dry	
Soil	Ogawa, Iwaki	Jan-23	CA	Cs137	71.6 Bq/kg dry	± 2.1 Bq/kg dry	71.6	Cs137	1.6 Bq/kg dry	
				Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.6 Bq/kg dry	
Dead leaves	Ogawa, Iwaki	Jan-23	OR	Cs137	34.7 Bq/kg raw	± 0.4 Bq/kg raw	35.4	Cs137	0.2 Bq/kg raw	
				Cs134	0.7 Bq/kg raw	± 0.1 Bq/kg raw		Cs134	0.2 Bq/kg raw	

※"_"used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.

★Beta-ray

Measuring instrument		Feature
Liquid Scintillation Counter		
Product of Hidex HIDEX 300SLL	Product of PerkinElmer Japan Quantulus GCT 622	Equipment for measuring low-energy beta-ray emission nuclides
		Measuring nuclide Strontium90 Half-life 30 years Organically bound 3H Half-life 12.3 years Free-water 3H Half-life 12.3 years All samples are measured in liquid condition after several days of pretreatment.

(Bq/Kg raw:Weight of raw sample Bq/Kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Minimum Limit of Detection	
				Bq/kg dry		Bq/kg dry		Bq/kg dry
Rice (with chaff)	Okuma, Futaba, Fukushima	Nov-22	Sr90	Under Minimum Limit of Detection	± —	Bq/kg dry	0.13	Bq/kg dry
Sea water (lower)	Off the coast of Fukushima Nuclear Power Plant1 Point A	Nov-22	Sr90	0.0008	± 0.0003	Bq/L	0.0004	Bq/L
Sea water (surface)	Off the coast of Fukushima Nuclear Power Plant1 Point B	Nov-22	Sr90	0.0015	± 0.0003	Bq/L	0.0005	Bq/L
Sea water (lower)	Off the coast of Fukushima Nuclear Power Plant1 Point B	Nov-22	Sr90	0.0012	± 0.0003	Bq/L	0.0004	Bq/L
Sea water (surface)	Off the coast of Fukushima Nuclear Power Plant1 Point C	Nov-22	Sr90	0.0019	± 0.0004	Bq/L	0.0005	Bq/L
Sea water (lower)	Off the coast of Fukushima Nuclear Power Plant1 Point C	Nov-22	Sr90	0.0011	± 0.0004	Bq/L	0.0006	Bq/L
Sea water (surface)	Off the coast of Fukushima Nuclear Power Plant1 Point D	Nov-22	Sr90	0.001	± 0.0003	Bq/L	0.0005	Bq/L
Soil	Okuma, Futaba, Fukushima	Dec-22	Sr90	7.04	± 1.05	Bq/kg dry	1.52	Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	Sr90	5.41	± 1.07	Bq/kg dry	1.57	Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	Sr90	5.19	± 1.08	Bq/kg dry	1.59	Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	Sr90	Under Minimum Limit of Detection	± —	Bq/kg dry	1.51	Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	Sr90	2.73	± 1.20	Bq/kg dry	1.80	Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	Sr90	23.22	± 1.33	Bq/kg dry	1.78	Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	Sr90	20.82	± 1.14	Bq/kg dry	1.51	Bq/kg dry
Rice paddy soil	Okuma, Futaba, Fukushima	Dec-22	Sr90	Under Minimum Limit of Detection	± —	Bq/kg dry	1.70	Bq/kg dry

※"_" used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.

Measurement results of 16 items by germanium semiconductor detector

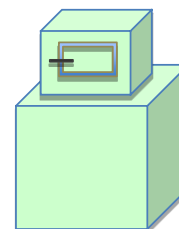
Dr. Tetsuji Imanaka, Institute of Multiple Nuclear Science, Kyoto University

In order to convey more measurement results to everyone, we have asked Dr. Tetsuji Imanaka of the Institute of Advanced Nuclear Science, Kyoto University, to measure low-dose samples using germanium semiconductor detectors. Measurement samples are not only from Fukushima Prefecture but also come from other prefectures. Please compare data based on measurements from various regions and use them to protect your children from radiation exposure.

★Gamma-ray

Measuring instrument : Germanium Semiconductor detector




- Product of CANBERRA(CA),USA GX3018 Relative efficiency 30% or more
- Product of ORTEC(OR),USA GMX25-70 Relative efficiency 35%

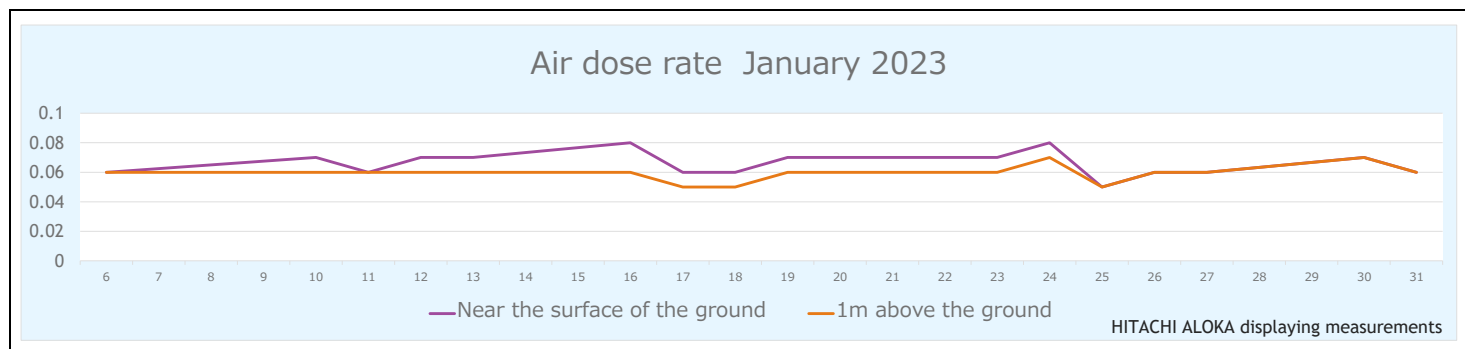


(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measuring instrument type	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Burdock	Tokiwa, Tamura, Fukushima	Oct-22	OR	Cs137	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.08 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw		Cs134	Bq/kg raw
Sweet potato	Otama, Adachi, Fukushima	Sep-22	OR	Cs137	0.08 Bq/kg raw	± 0.04 Bq/kg raw	0.04 Bq/kg raw	0.08	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw		Cs134	Bq/kg raw
Sweet potato	Namie, Futaba, Fukushima	Nov-22	OR	Cs137	4.8 Bq/kg raw	± 0.20 Bq/kg raw	0.20 Bq/kg raw	4.80	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw		Cs134	Bq/kg raw
Taro	Yukawa, Kawanuma, Fukushima	Nov-22	CA	Cs137	0.08 Bq/kg raw	± 0.02 Bq/kg raw	0.02 Bq/kg raw	0.08	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw		Cs134	Bq/kg raw
Sarunashi	Kitashiobara, Yama, Fukushima	Oct-22	CA	Cs137	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.05 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw		Cs134	Bq/kg raw
Yam bulblet	Otama, Adachi, Fukushima	Sep-22	OR	Cs137	0.26 Bq/kg raw	± 0.06 Bq/kg raw	0.06 Bq/kg raw	0.26	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw		Cs134	Bq/kg raw
Shitake mushroom log grown (Lentinula edodes)	Aizubange, Kawanuma, Fukushima	Nov-22	CA	Cs137	3.10 Bq/kg raw	± 0.06 Bq/kg raw	0.06 Bq/kg raw	3.16	Cs137	Bq/kg raw
				Cs134	0.06 Bq/kg raw	± 0.02 Bq/kg raw	0.02 Bq/kg raw		Cs134	Bq/kg raw
Shitake mushroom log grown (Lentinula edodes)	Nakata, Koriyama, Fukushima	Oct-22	CA	Cs137	5.8 Bq/kg raw	± 0.10 Bq/kg raw	0.10 Bq/kg raw	5.88	Cs137	Bq/kg raw
				Cs134	0.08 Bq/kg raw	± 0.02 Bq/kg raw	0.02 Bq/kg raw		Cs134	Bq/kg raw
Shitake mushroom log grown (Lentinula edodes)	Miharu, Tamura, Fukushima	Oct-22	CA	Cs137	17.6 Bq/kg raw	± 0.20 Bq/kg raw	0.20 Bq/kg raw	17.9	Cs137	Bq/kg raw
				Cs134	0.3 Bq/kg raw	± 0.04 Bq/kg raw	0.04 Bq/kg raw		Cs134	Bq/kg raw
Nameko mushroom log grown (Pholiota nameko)	Kitakata, Fukushima.	Nov-22	CA	Cs137	1.4 Bq/kg raw	± 0.06 Bq/kg raw	0.06 Bq/kg raw	1.4	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw		Cs134	Bq/kg raw
Yuzu	Miharu, Tamura, Fukushima	Nov-22	OR	Cs137	2.2 Bq/kg raw	± 0.07 Bq/kg raw	0.07 Bq/kg raw	2.2	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw		Cs134	Bq/kg raw
Pear	Fukushima, Fukushima Pref.	Oct-22	OR	Cs137	0.62 Bq/kg raw	± 0.06 Bq/kg raw	0.06 Bq/kg raw	0.62	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw		Cs134	Bq/kg raw
Pear	Aizuwakamatsu, Fukushima	Oct-22	OR	Cs137	0.43 Bq/kg raw	± 0.07 Bq/kg raw	0.07 Bq/kg raw	0.43	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw		Cs134	Bq/kg raw
Persimmon	Namie, Futaba, Fukushima	Nov-22	CA	Cs137	3.7 Bq/kg raw	± 0.1 Bq/kg raw	0.1 Bq/kg raw	3.77	Cs137	Bq/kg raw
				Cs134	0.07 Bq/kg raw	± 0.02 Bq/kg raw	0.02 Bq/kg raw		Cs134	Bq/kg raw
Persimmon	Aizubange, Kawanuma, Fukushima	Oct-22	OR	Cs137	0.14 Bq/kg raw	± 0.03 Bq/kg raw	0.03 Bq/kg raw	0.14	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw	— Bq/kg raw		Cs134	Bq/kg raw
Persimmon	Ena, Iwaki	Oct-22	OR	Cs137	4.2 Bq/kg raw	± 0.10 Bq/kg raw	0.10 Bq/kg raw	4.32	Cs137	Bq/kg raw
				Cs134	0.12 Bq/kg raw	± 0.02 Bq/kg raw	0.02 Bq/kg raw		Cs134	Bq/kg raw

Air dose rate January 2023

Measuring Instrument		Measuring Place
CsI Scintillation survey meter	NaI Scintillation survey meter	Yokocho Park, Onahama, Iwaki, Fukushima
ⓂHITACHI ALOKA TCS-1172	ⓂHORIBA Radi PA-1100	
		
Feature: Measuring air (space) radiation dose and radioactive surface contamination of human body and other things.		



Measuring instrument		HITACHI ALOKA	HORIBA Radi	HITACHI ALOKA	HORIBA Radi
Measuring Date	Weather	Near the surface of the ground($\mu\text{Sv}/\text{h}$)		1m above the ground($\mu\text{Sv}/\text{h}$)	
2023/1/6	☀	0.06	0.071	0.06	0.063
Measuring Date	Weather	Near the surface of the ground($\mu\text{Sv}/\text{h}$)		1m above the ground($\mu\text{Sv}/\text{h}$)	
2023/1/10	☀	0.07	0.073	0.06	0.068
2023/1/11	☀	0.06	0.064	0.06	0.058
2023/1/12	☀	0.07	0.067	0.06	0.066
2023/1/13	☀	0.07	0.07	0.06	0.062
Measuring Date	Weather	Near the surface of the ground($\mu\text{Sv}/\text{h}$)		1m above the ground($\mu\text{Sv}/\text{h}$)	
2023/1/16	☁	0.08	0.071	0.06	0.061
2023/1/17	☀/☁	0.06	0.064	0.05	0.057
2023/1/18	☀/☁	0.06	0.06	0.05	0.059
2023/1/19	☀	0.07	0.064	0.06	0.061
2023/1/20	☁	0.07	0.073	0.06	0.065
Measuring Date	Weather	Near the surface of the ground($\mu\text{Sv}/\text{h}$)		1m above the ground($\mu\text{Sv}/\text{h}$)	
2023/1/23	☁	0.07	0.069	0.06	0.055
2023/1/24	☀/☁	0.08	0.068	0.07	0.073
2023/1/25	☁	0.05	0.059	0.05	0.059
2023/1/26	☀	0.06	0.061	0.06	0.061
2023/1/27	☀	0.06	0.053	0.06	0.053
Measuring Date	Weather	Near the surface of the ground($\mu\text{Sv}/\text{h}$)		1m above the ground($\mu\text{Sv}/\text{h}$)	
2023/1/30	☁	0.07	0.065	0.07	0.064
2023/1/31	☀	0.06	0.062	0.06	0.062