## Nuclide Analysis Results of Radioactive Materials in Seawater < Coast>

Reference

(Data summarized on March 1)

Place of Sampling	North of Discha of 5-6u (approx. 30m r discharge o	of 1F orth of 5-6u	Around South Channel ( appox. 330m Discharge (	of 1F south of 1-4u	Around North Channel ( Around 3,4u Chanr ( approx. 10 ki	of 2F I Discharge nel)	Around Iwasawa ( appox. 7 km s Discharge ( ( appox. 16 kr	south of 1,2u Channel)	Density limit by the announcement of Reactor Regulation (Bq/L)		
Time of Sampling	Feb 29, 09:05		Feb 29, 08:45		Feb 29, (Not sam		Feb 29, 08:25		(the density limit in the water outside of		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Sample Factor		Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	surrounding monitored areas in the section 6 of the appendix 2)		
I-131 (about 8 days)	ND	-	ND	-	-	-	ND	-	40		
Cs-134 (about 2 years)	ND	-	ND	-	-	-	ND	-	60		
Cs-137 (about 30 years)	1.6	0.02	ND	-	-	-	ND	-	90		

<sup>\*</sup> Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

I-131: approx. 0.72Bq/L, Cs-134: approx. 0.91Bq/L, Cs-137: approx. 1.1Bq/L

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

One point out of four was not sampled due to bad weather.

<sup>\*</sup> Data of other nuclides are under evaluation.

<sup>\*</sup> In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

<sup>\* &</sup>quot;ND" means the sampled data is below measurable limit.

#### Nuclide Analysis Results of Radioactive Materials in Seawater < Offshore 1/3>

Reference

(Data summarized on March 1)

Place of Sampling	15 km offshore of Minami- Souma CityUpper Layer Souma CityLower Layer			15 km offshore of Ukedo- gawa Upper Layer		15 km offshore of Ukedo- gawa Lower Layer		15 km offshore of Fukushima Daiichi Upper Layer		Fukushima r Layer	announcement of		
Time of Sampling	Feb 28, 2 10:55 a		Feb 28, 2 10:55 a		Feb 28, 2 10:20 a		Feb 28, 2 10:20 a		N/A		N/A		Reactor Regulation (Bq/L) (the density limit in the
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	water outside of
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	-	-	-	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	-	-	-	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	-	-	-	-	90

Place of Sampling	15 km offshore of Daini Upper		15 km offshore of Fukushima Daini Lower Layer			15 km offshore of Iwasawa Shore Upper Layer		15 km offshore of Iwasawa Shore Lower Layer		15 km offshore of Hirono- town Upper Layer		of Hirono- Layer	② Density limit by the announcement of
Time of Sampling	N/A		N/A		Feb 28, 2012 08:55 am		Feb 28, 2012 08:55 am		Feb 28, 2012 08:25 am		Feb 28, 2012 08:25 am		Reactor Regulation (Bq/L) (the density limit in the
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	water outside of surrounding monitored
I-131 (about 8 days)	-	-	-	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	-	-	-	ı	ND	-	ND	-	ND	ı	ND	-	60
Cs-137 (about 30 years)	-	-	-	-	ND	-	ND	-	ND	-	ND	-	90

<sup>\*</sup> Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

<sup>\*</sup> Data of other nuclides are under evaluation.

<sup>\*</sup> In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

<sup>\* &</sup>quot;ND" means the sampled data is below measurable limit.

I-131: approx. 1.0Bq/L, Cs-134: approx. 0.89Bq/L, Cs-137: approx. 1.1Bq/L

#### Nuclide Analysis Results of Radioactive Materials in Seawater < Offshore 2/3>

Reference

(Data summarized on March 1)

												`	,	
Place of Sampling	3 km offshore of Haramachi Ward Upper Layer 3 km offshore of Haramachi Ward Lower Layer			3 km offshore of Odaka Ward Upper Layer		of Odaka Layer	3 km offshore of Iwasawa shore Upper Layer		3 km offshore of Iwasawa shore Lower Layer		2 Density limit by the announcement of			
Time of Sampling	Feb 28, 2 10:45 a		Feb 28, 2 10:45 a		Feb 28, 2 10:25 a		Feb 28, 2 10:25 a		Feb 28, 2 07:55 a		Feb 28, 2 07:55 a		Reactor Regulation (Bq/L) (the density limit in the	
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	water outside of surrounding monitored areas in the section 6 of the appendix 2)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40	
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	60	
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	90	

Place of Sampling	8 km offshore o Ward Upper		8 km offshore o Ward Lower		8 km offshore of shore Upper		8 km offshore of shore Lower						② Density limit by the announcement of
Time of Sampling	,	Feb 28, 2012 10:00 am		Feb 28, 2012 10:00 am		Feb 28, 2012 08:20 am		Feb 28, 2012 08:20 am					Reactor Regulation (Bq/L) (the density limit in the
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	water outside of surrounding monitored										
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-					40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-					60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-					90

<sup>\*</sup> Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

<sup>\*</sup> Data of other nuclides are under evaluation.

<sup>\*</sup> In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

<sup>\* &</sup>quot;ND" means the sampled data is below measurable limit.

I-131: approx. 0.74Bq/L, Cs-134: approx. 0.92Bq/L, Cs-137: approx. 1.1Bq/L

#### Nuclide Analysis Results of Radioactive Materials in Seawater < Offshore 3/3>

Reference

(Data summarized on March 1)

Place of Sampling	3 km offshore of S Upper La	,	3 km offshore of Souma City Lower Layer			5 km offshore of Souma City Upper Layer		5 km offshore of Souma City Lower Layer		5 km offshore of Kashima Upper Layer		f Kashima iyer	② Density limit by the announcement of
Time of Sampling	Feb 28, 2 06:50 a		Feb 28, 2 06:50 a		Feb 28, 2 07:05 a		Feb 28, 2 07:05 a		Feb 28, 2012 07:20 am		Feb 28, 2 07:20 a		Reactor Regulation (Bq/L) (the density limit in the
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	water outside of
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	90

Place of Sampling	5km Offsho Numanouchi Up		5km Offsho Numanouchi Lo										② Density limit by the announcement of
Time of Sampling	Feb 28, 2 06:55 a		Feb 28, 2012 06:55 am										Reactor Regulation (Bq/L) (the density limit in the
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (1)/2)	water outside of surrounding monitored										
I-131 (about 8 days)	ND	-	ND	-									40
Cs-134 (about 2 years)	ND	-	ND	-									60
Cs-137 (about 30 years)	ND	-	ND	-									90

<sup>\*</sup> Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

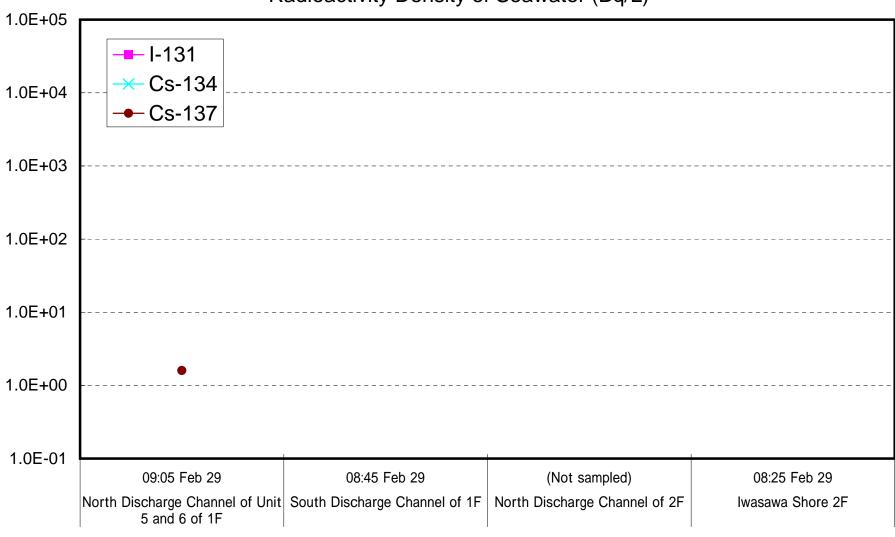
<sup>\*</sup> Data of other nuclides are under evaluation.

<sup>\*</sup> In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

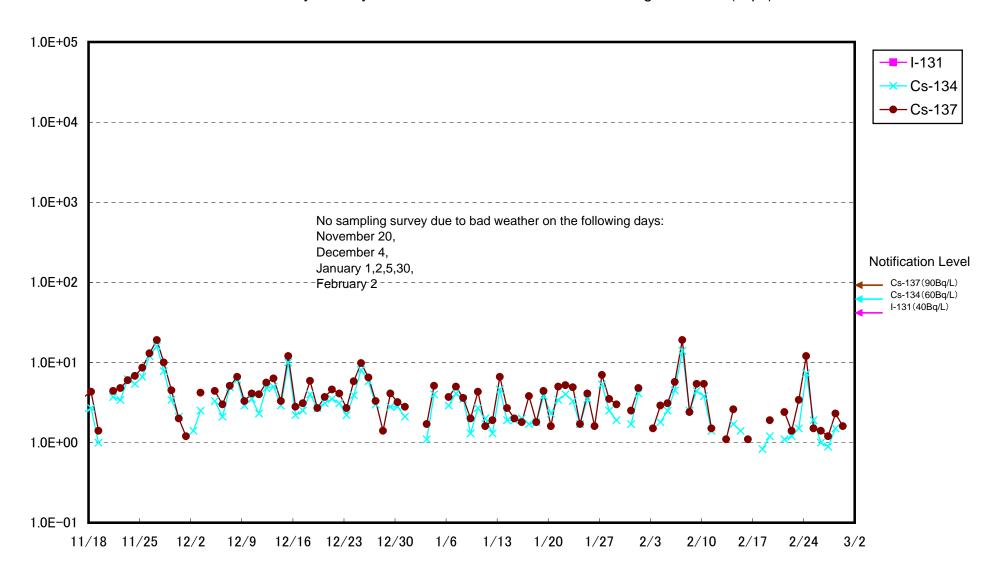
<sup>\* &</sup>quot;ND" means the sampled data is below measurable limit.

I-131: approx. 0.65Bq/L, Cs-134: approx. 0.89Bq/L, Cs-137: approx. 1.1Bq/L

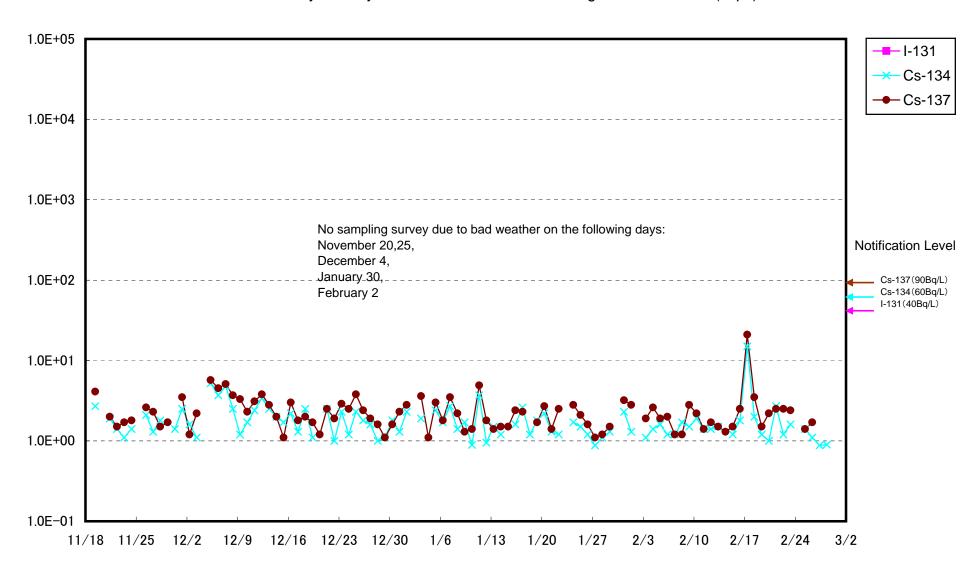
# Radioactivity Density of Seawater (Bq/L)



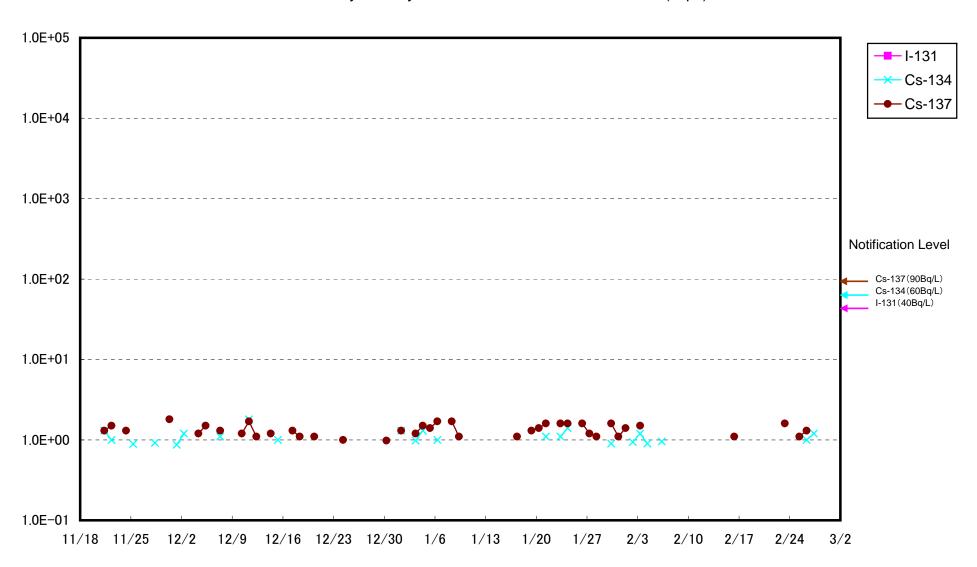
## Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



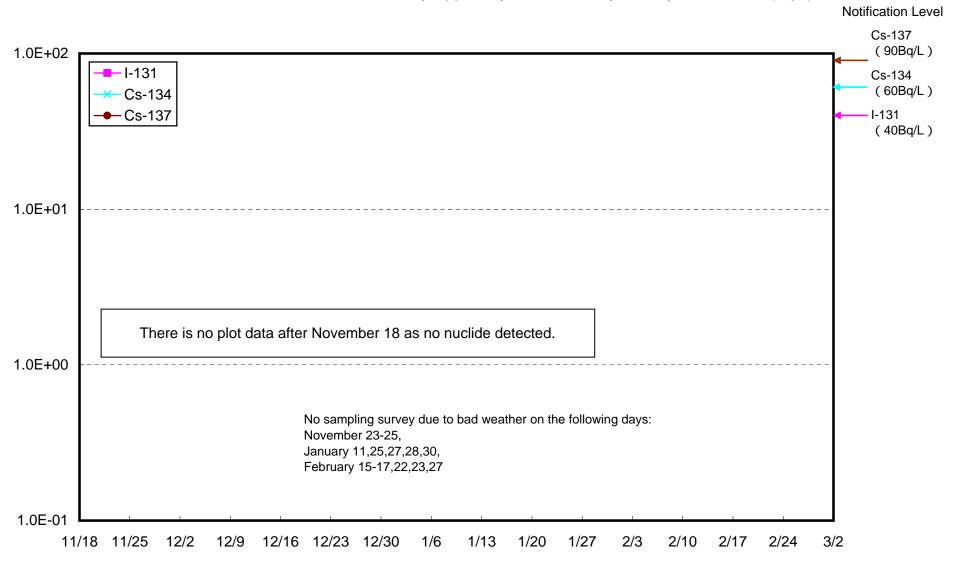
## Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)



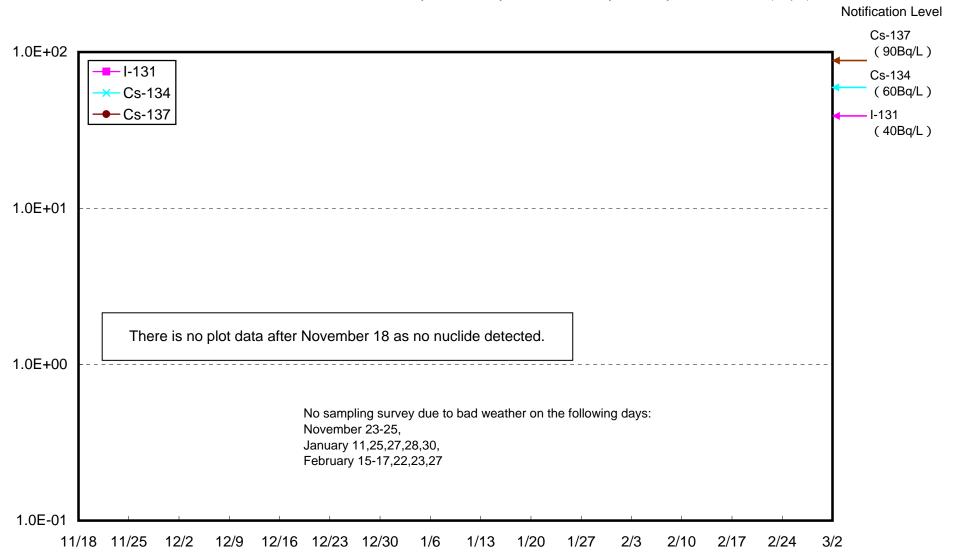
# Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)



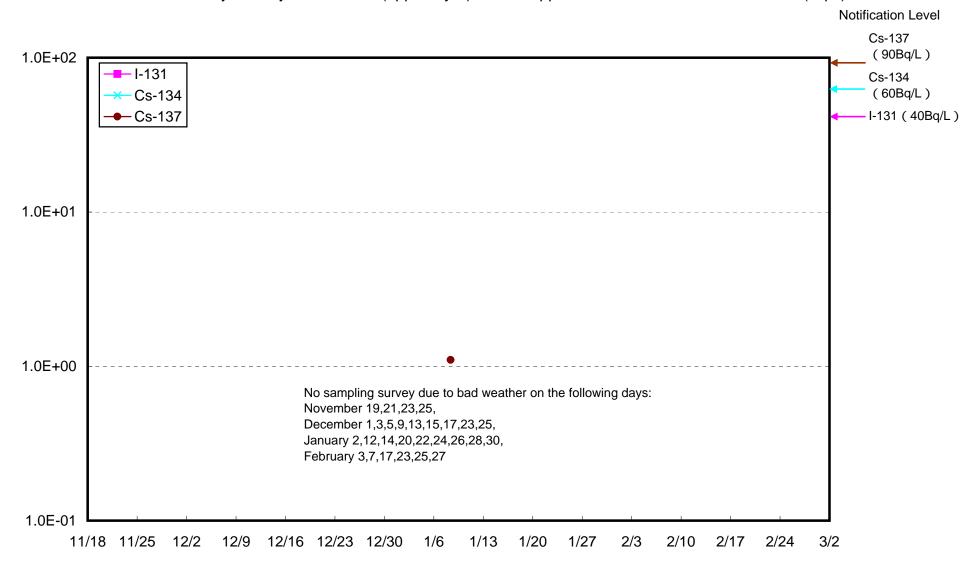


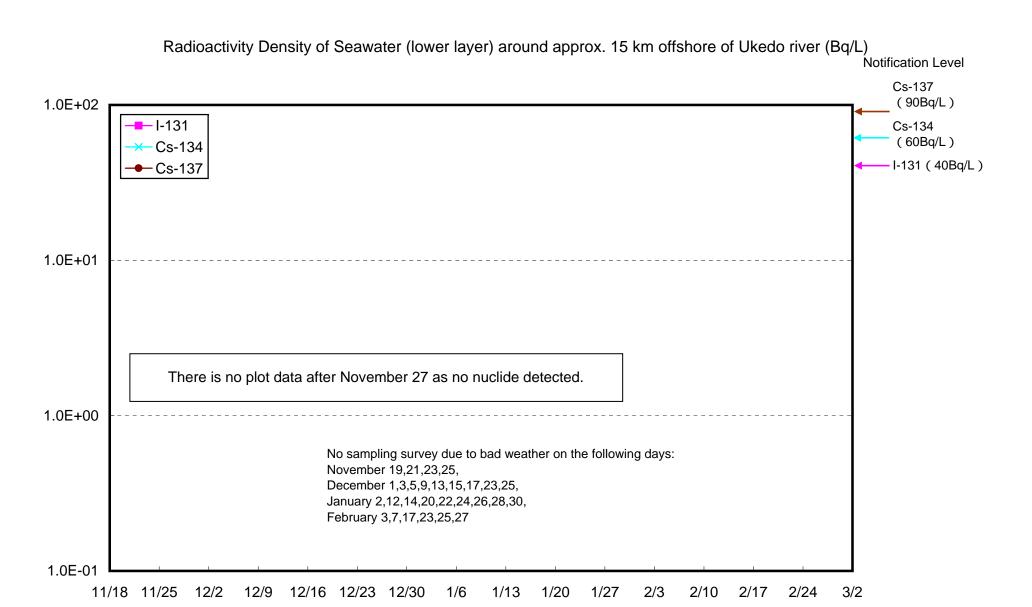


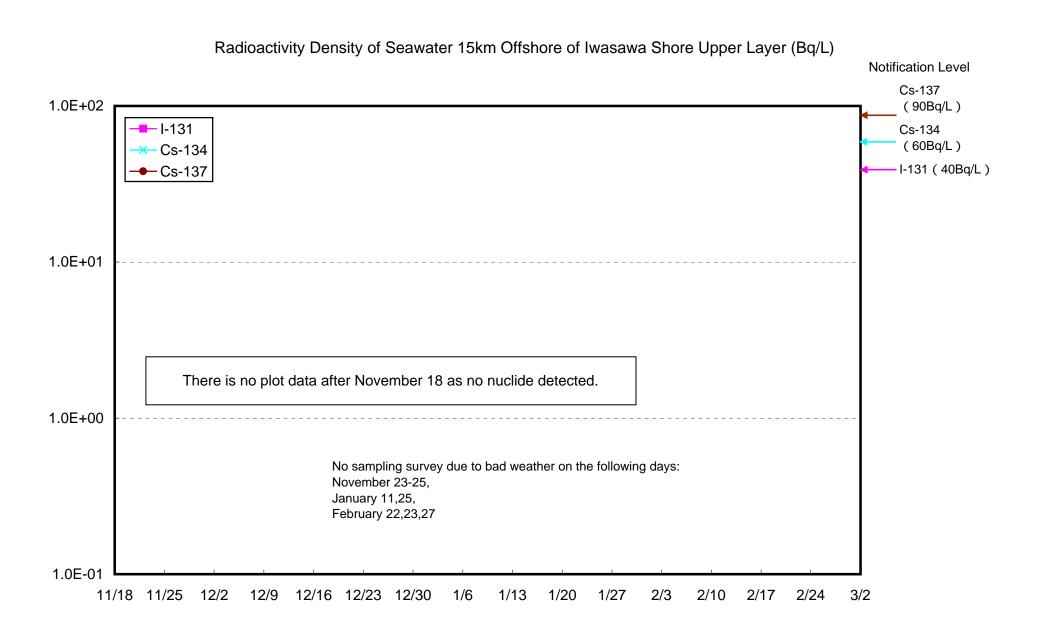


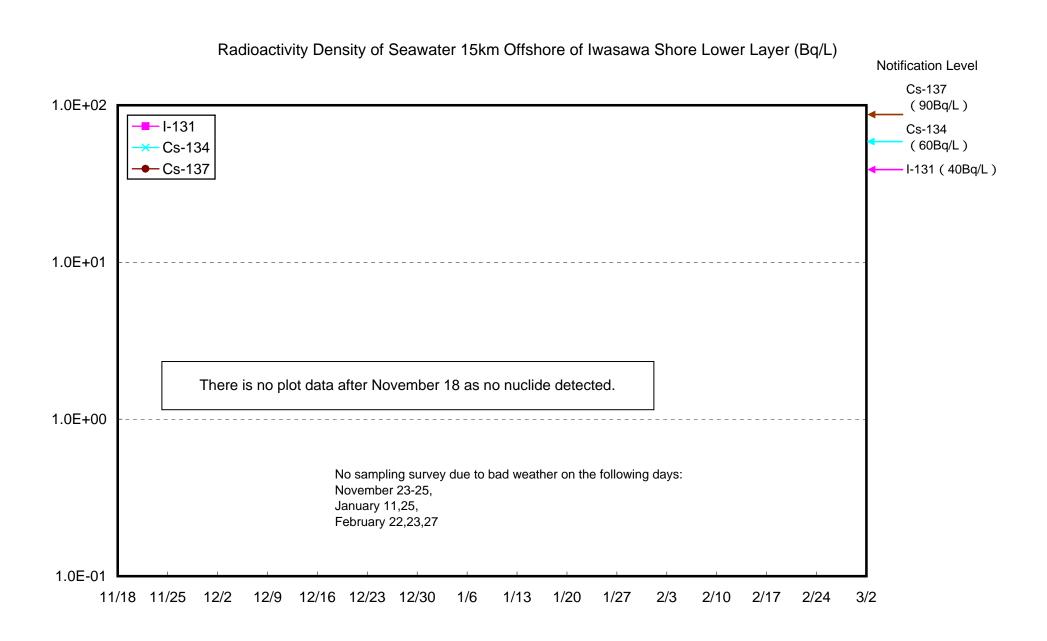


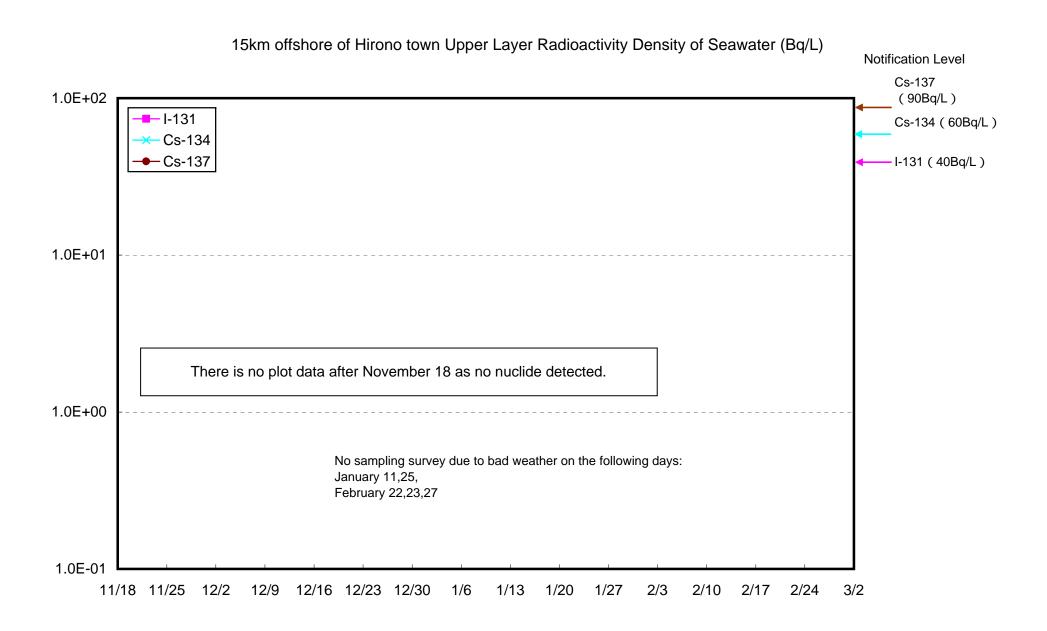
### Radioactivity Density of Seawater (upper layer) around approx. 15 km offshore of Ukedo river (Bq/L)

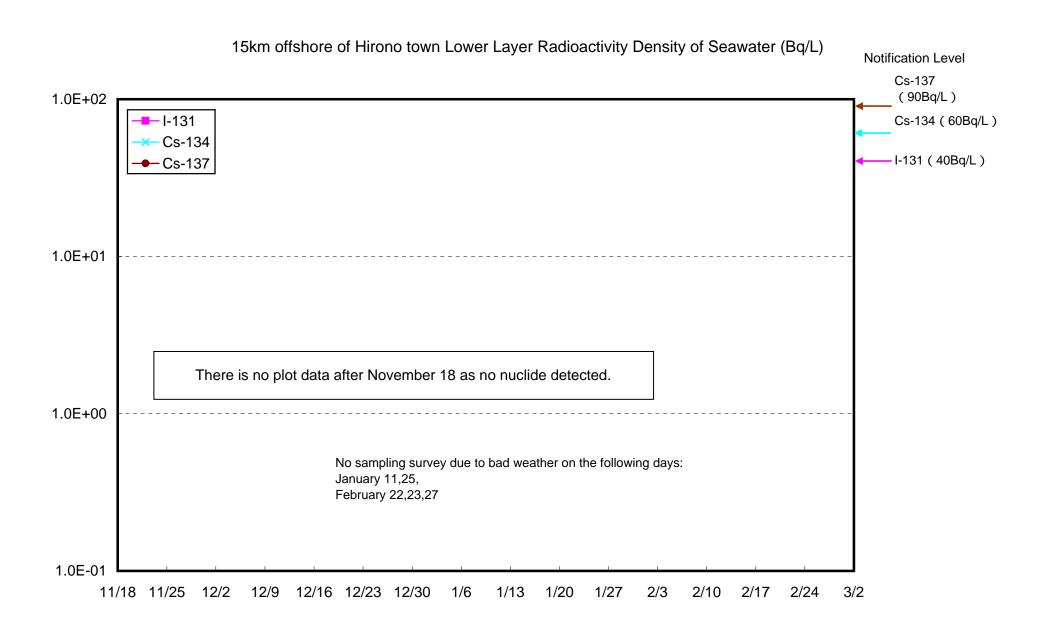


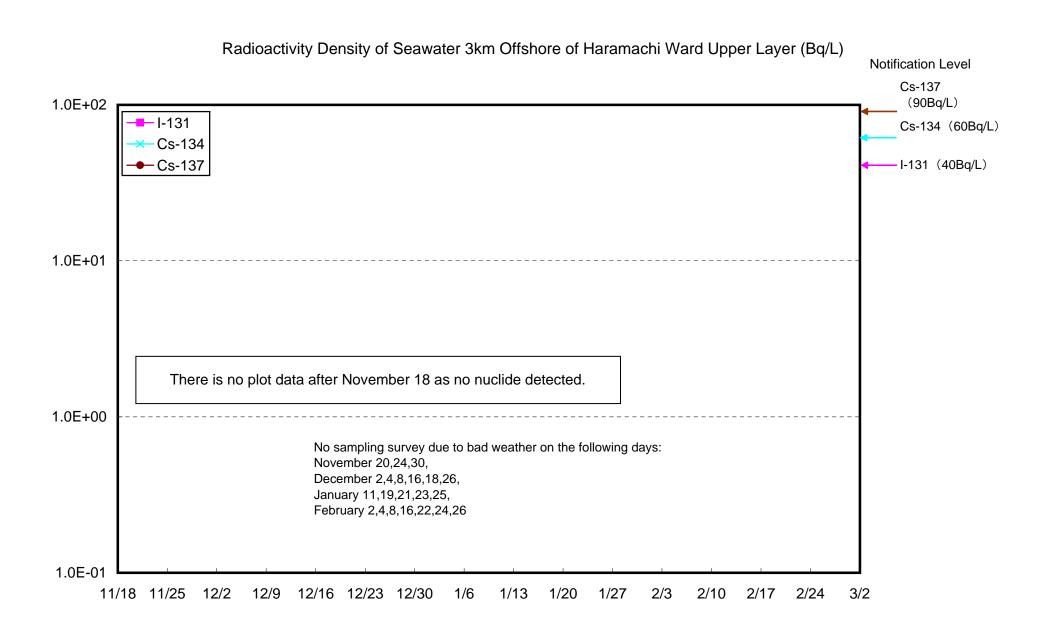


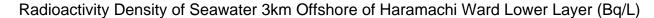


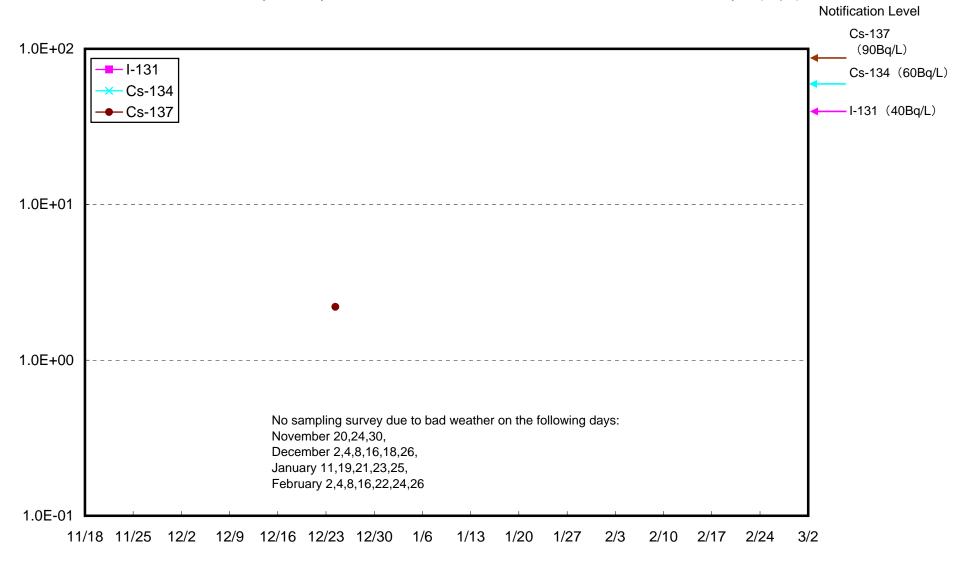




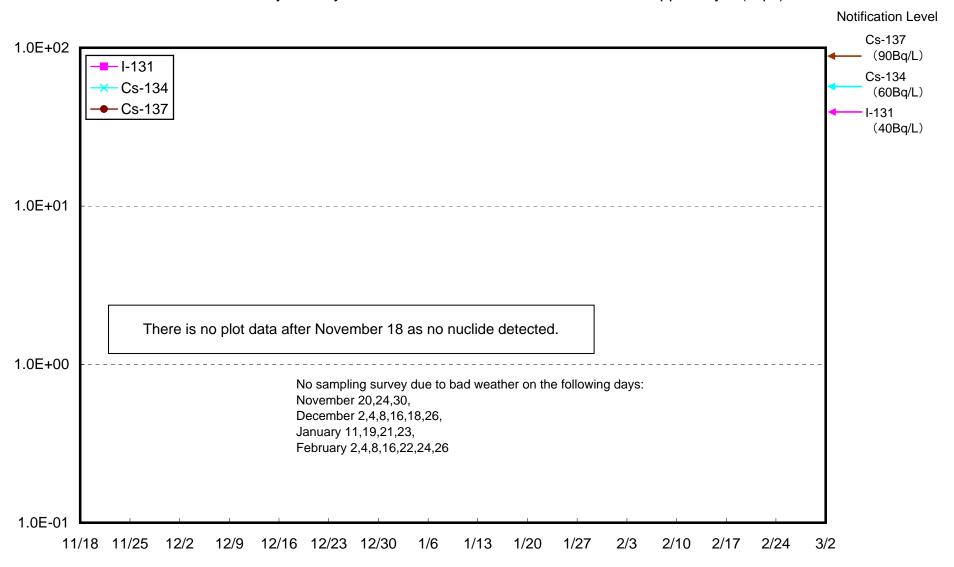




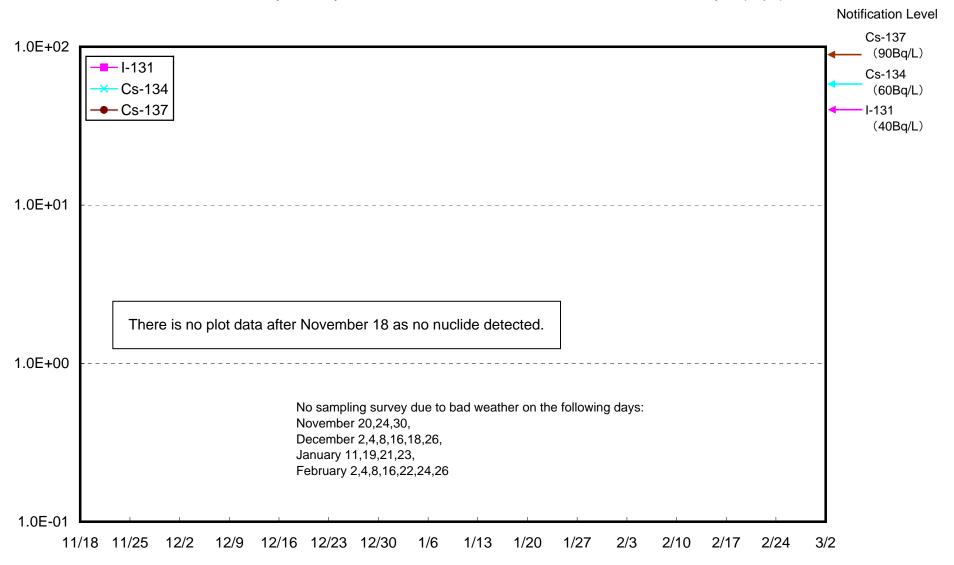


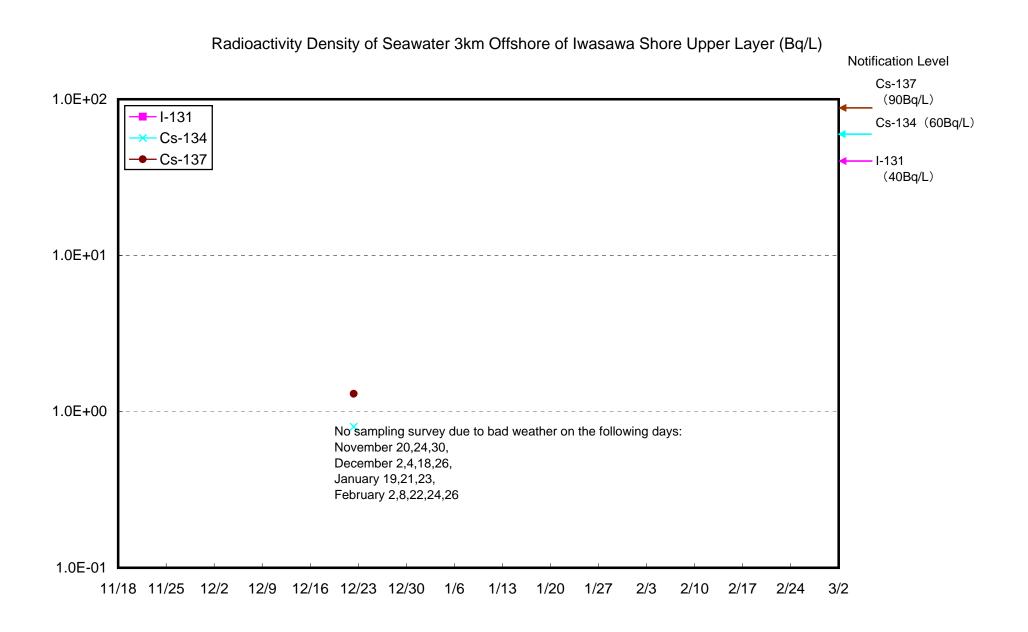


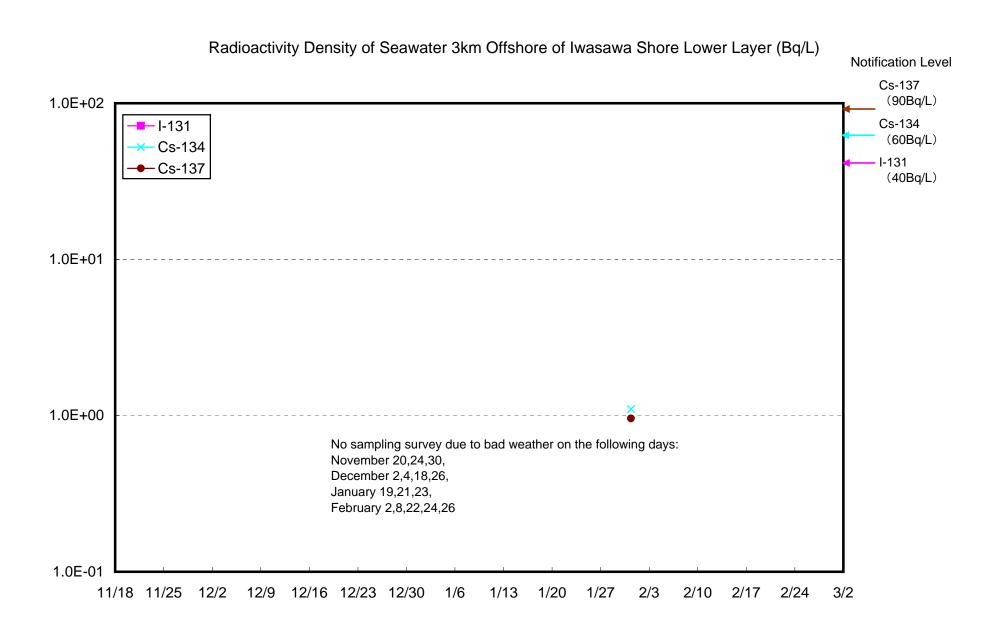
### Radioactivity Density of Seawater 3km Offshore of Odaka Ward Upper Layer (Bq/L)

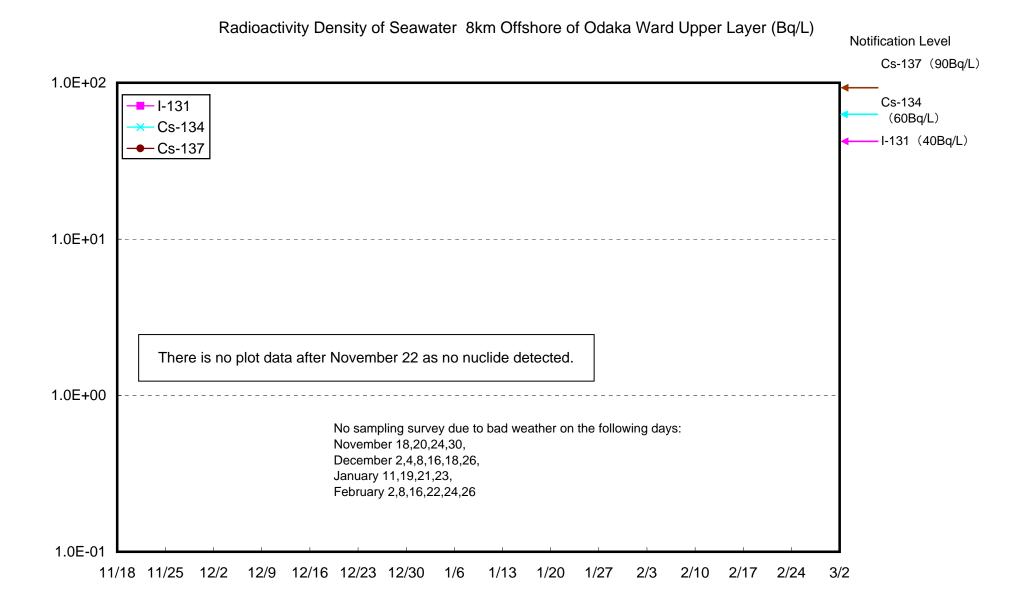


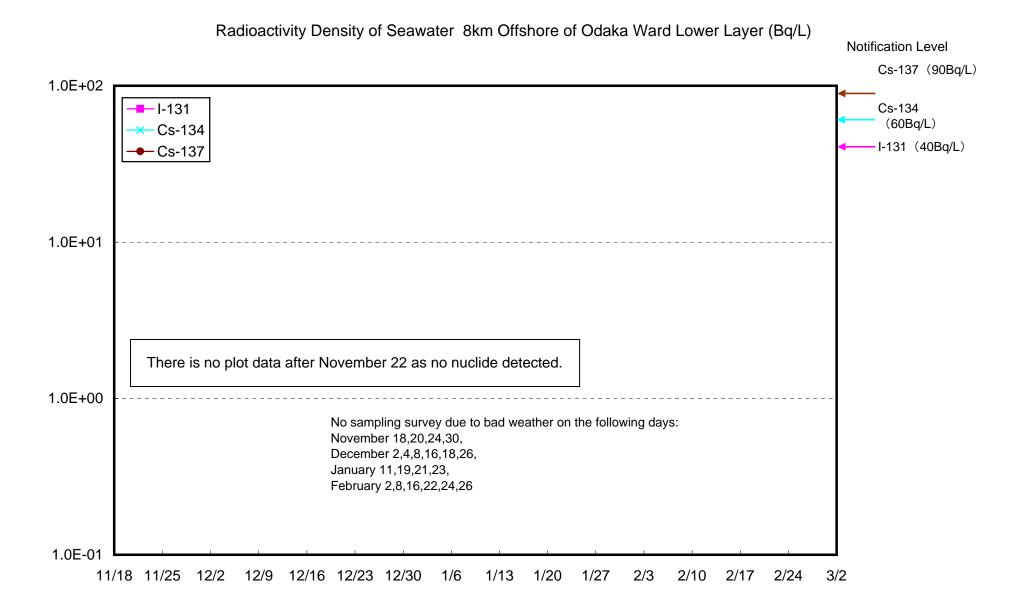
## Radioactivity Density of Seawater 3km Offshore of Odaka Ward Lower Layer (Bq/L)

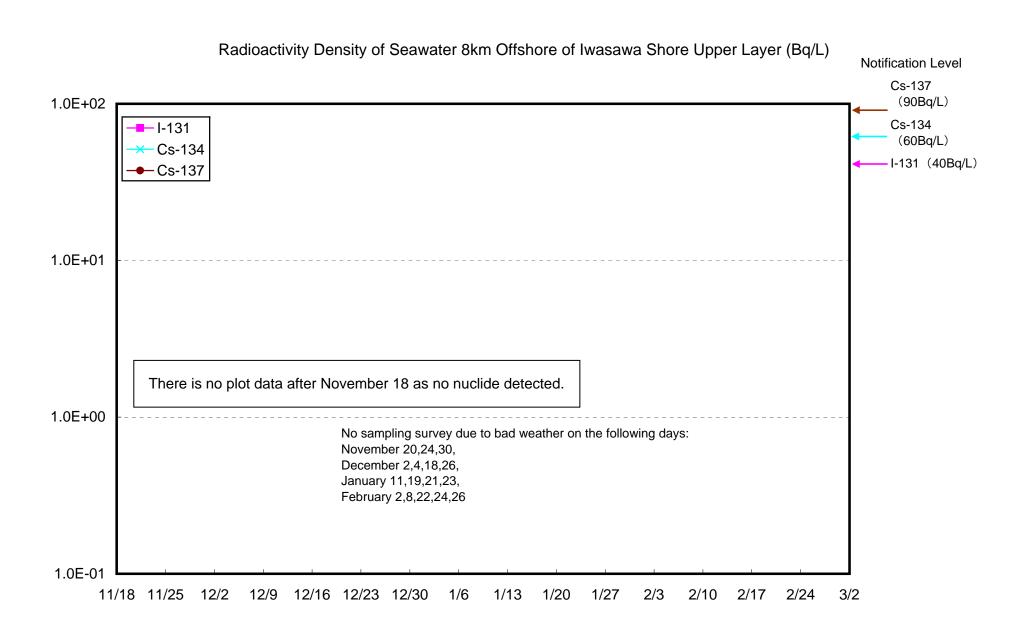


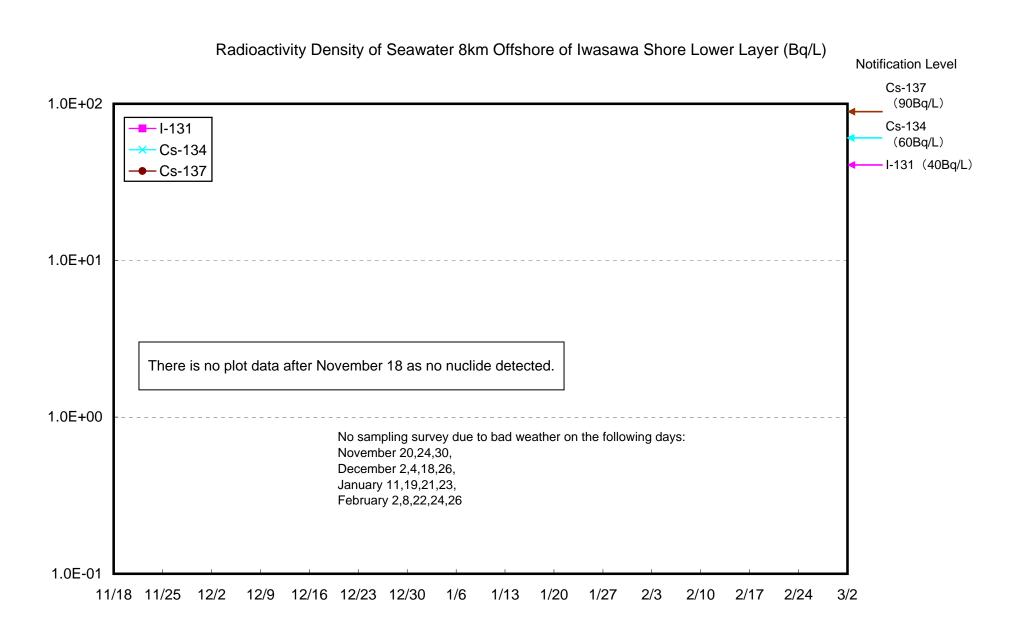


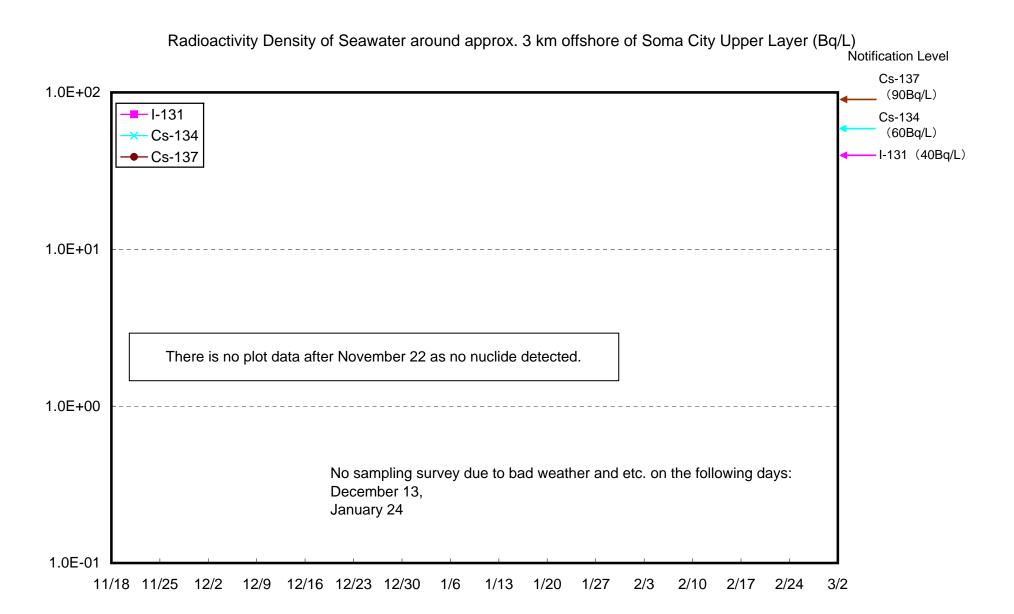




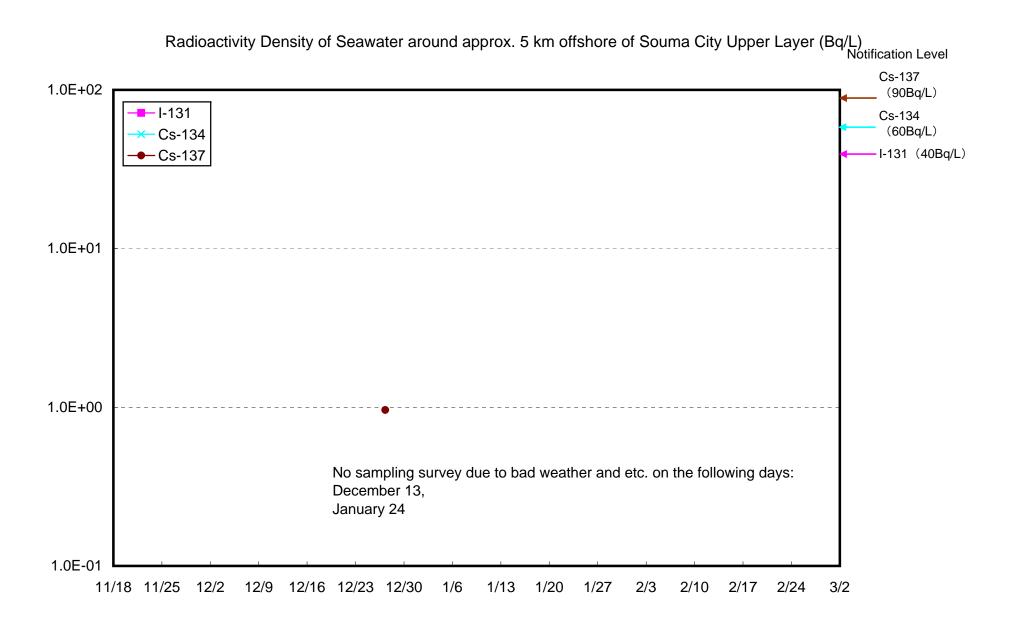


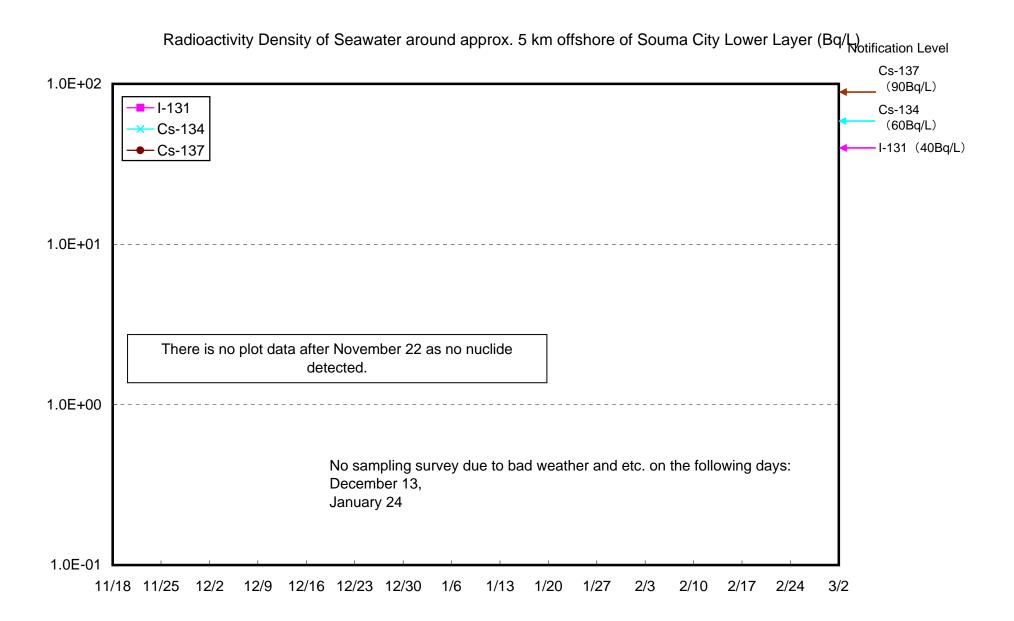


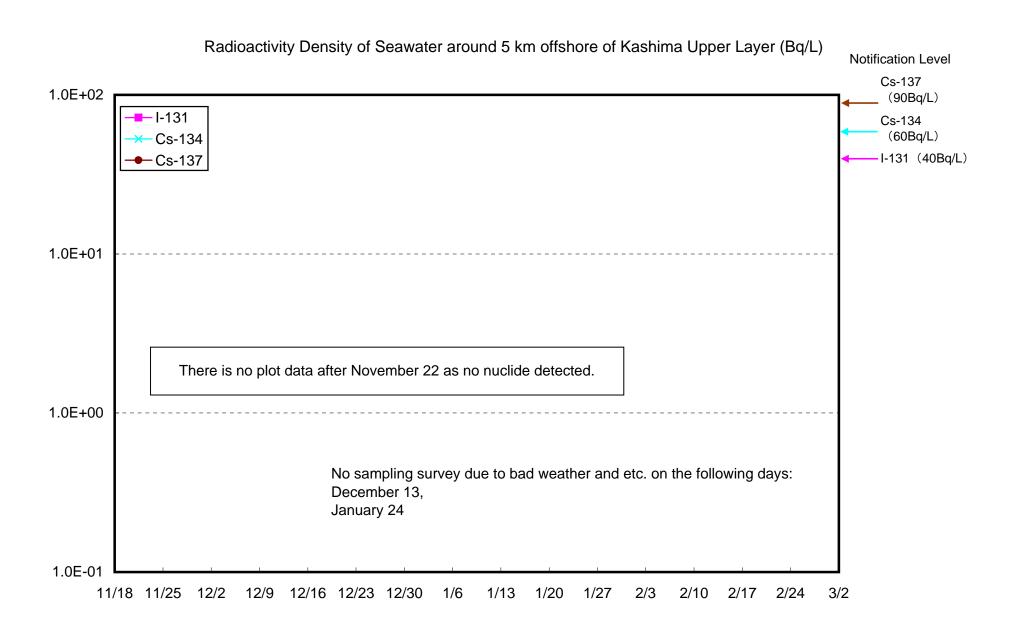


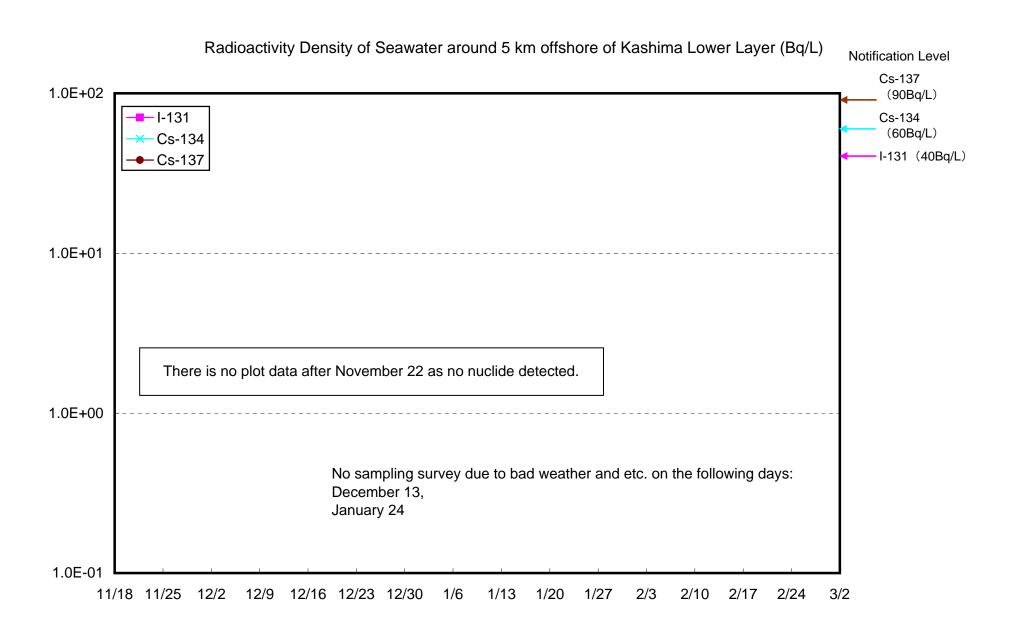


Radioactivity Density of Seawater around approx. 3 km offshore of Soma City Lower Layer (Bq/L) **Notification Level** Cs-137 1.0E+02 (90Bq/L) -I-131 Cs-134 (60Bq/L) Cs-134 -I-131 (40Bq/L) Cs-137 1.0E+01 There is no plot data after November 22 as no nuclide detected. 1.0E+00 No sampling survey due to bad weather and etc. on the following days: December 13, January 24 1.0E-01 11/18 11/25 12/2 12/9 12/16 12/23 12/30 2/3 2/24 3/2 1/6 1/13 1/20 1/27 2/10 2/17









## Radioactivity Density of Seawater 5km Offshore of Numanouchi Upper Layer (Bq/L)

