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

Reference

(Data summarized on December 23)

Place of Sampling	North of Discha of 5-6u o (approx. 30m n 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 kr	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	Dec 22, 08:50		Dec 22, 08:30		Dec 22, 08:30		Dec 22, 08:00		(the density limit in the water outside of	
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	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	-	ND	-	40	
Cs-134 (about 2 years)	3.1	0.05	1.0	0.02	ND	-	ND	-	60	
Cs-137 (about 30 years)	4.1	0.05	1.9	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. 0.74Bq/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.

<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 1/2>

Reference

(Data summarized on December 23)

Place of Sampling	15 km offshore of Minami-Souma CityUpper Layer		Minami-Souma Ukedo-gawa Upper		15 km offshore of Ukedo-gawa Lower Layer		15 km offshore of Fukushima Daiichi Upper Layer		15 km offshore of Fukushima Daiichi Lower Layer		Density limit by the announcement of Reactor Regulation		
Time of Sampling	Dec 21, 2 09:00 a		Dec 21, 2 09:00 a		Dec 21, 2 08:30 a	•		Dec 21, 2011 07:55 am		Dec 21, 2011 07:55 am		(Bq/L) (the density limit in the	
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	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	15 km offshore of Fukushima Daini Upper Layer  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		15 km offshore of Hirono-town Lower Layer		Density limit by the announcement of Reactor Regulation		
Time of Sampling	Dec 21, 2 08:55 a		Dec 21, 2 08:55 a		Dec 21, 2 08:20 a		Dec 21, 2 08:20 a		Dec 21, 2 07:50 a		Dec 21, 2011 07:50 am		(Bq/L) (the density limit in the water outside of
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	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	-	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

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

<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. 0.68Bq/L, Cs-134: approx. 0.93Bq/L, Cs-137: approx. 1.0Bq/L

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

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

Reference

(Data summarized on December 23)

Place of Sampling	3 km offshore of Souma City Upper Layer		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		5 km offshore of Kashima Lower Layer		Density limit by the announcement of Reactor Regulation
Time of Sampling	N/A		N/A		N/A		N/A		N/A		N/A		(Bq/L) (the density limit in the
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	water outside of surrounding monitored areas in the section 6 of the appendix 2)
I-131 (about 8 days)	-	-	-	-	-	-	-	-	-	-	-	-	40
Cs-134 (about 2 years)	-	-	-	-	-	-	-	-	-	-	-	-	60
Cs-137 (about 30 years)	-	-	-	-	-	-	-	-	-	-	-	-	90

Place of Sampling	5km Offsh Numanouch Layei	i Upper	5km Offshore of Numanouchi Lower Layer										Density limit by the announcement of Reactor Regulation (Bq/L)	
Time of Sampling	Dec 21, 2 06:45 a		Dec 21, 2 06:45 a										(the density limit in the water outside of	
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	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	-									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.

I-131: approx. 0.67Bq/L, Cs-134: approx. 0.82Bq/L, Cs-137: approx. 1.1Bq/L

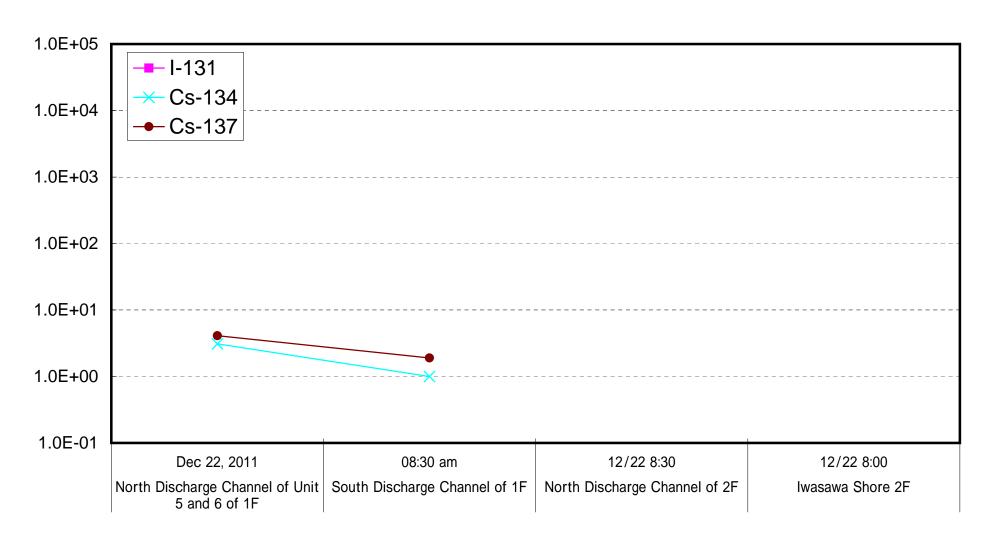
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

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

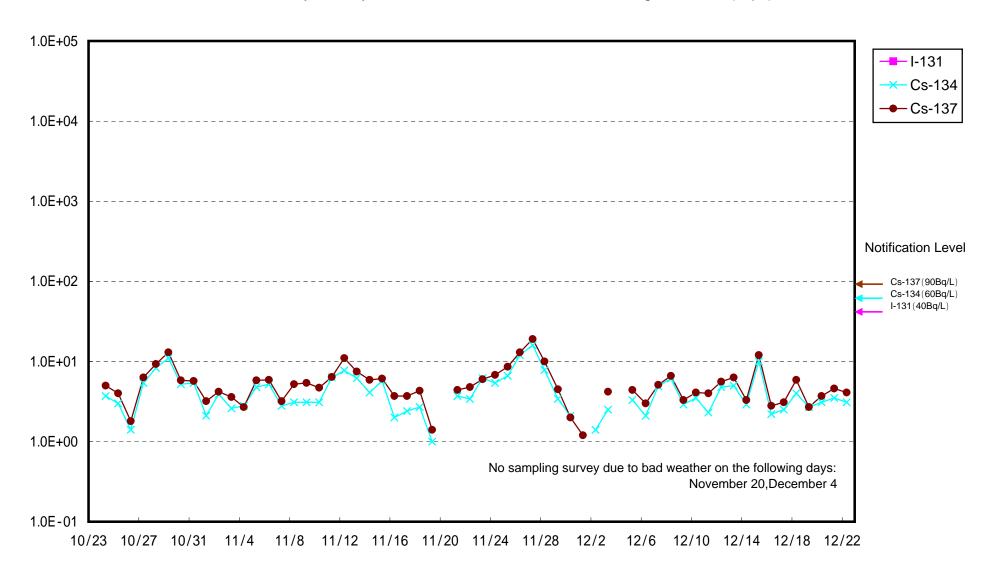
<sup>\*</sup> In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

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

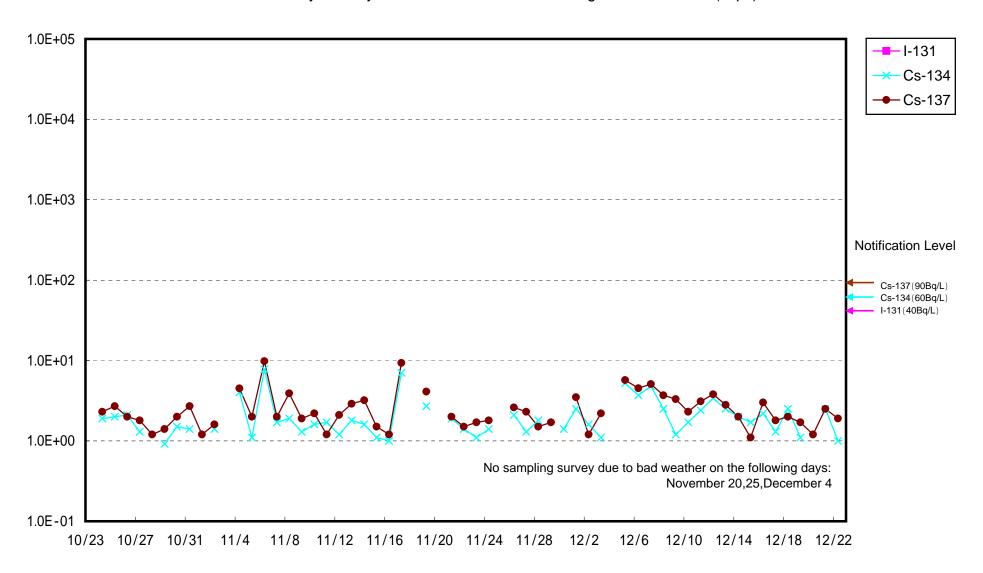
# Radioactivity Density of Seawater (Bq/L)



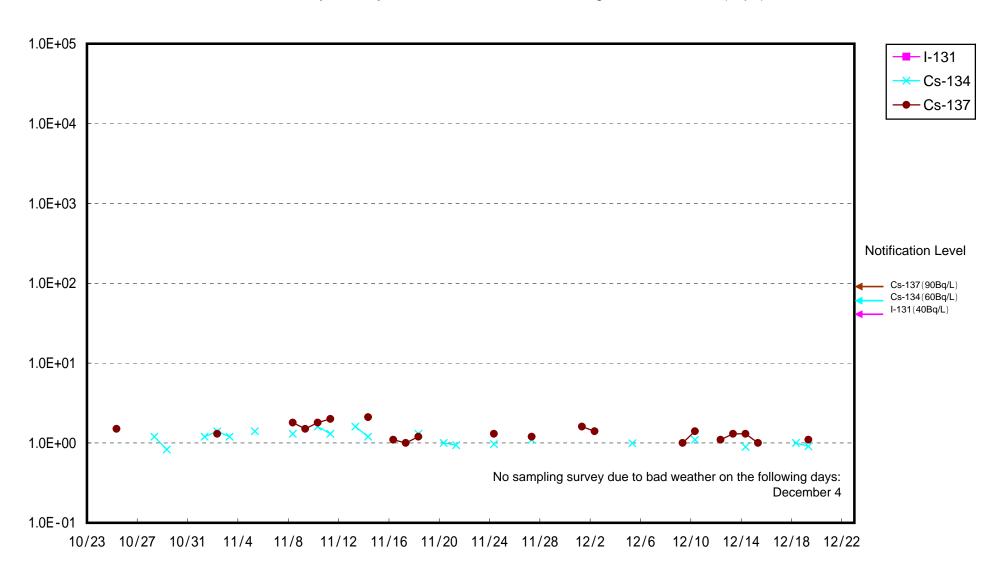
## Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



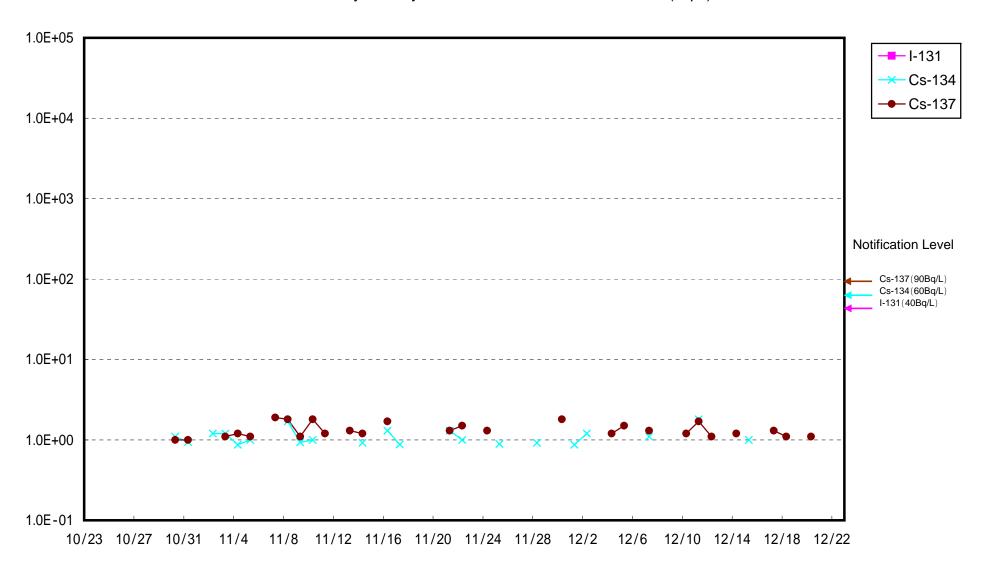
## Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)



## Radioactivity Density of Seawater at North Discharge Channel of 2F (Bq/L)

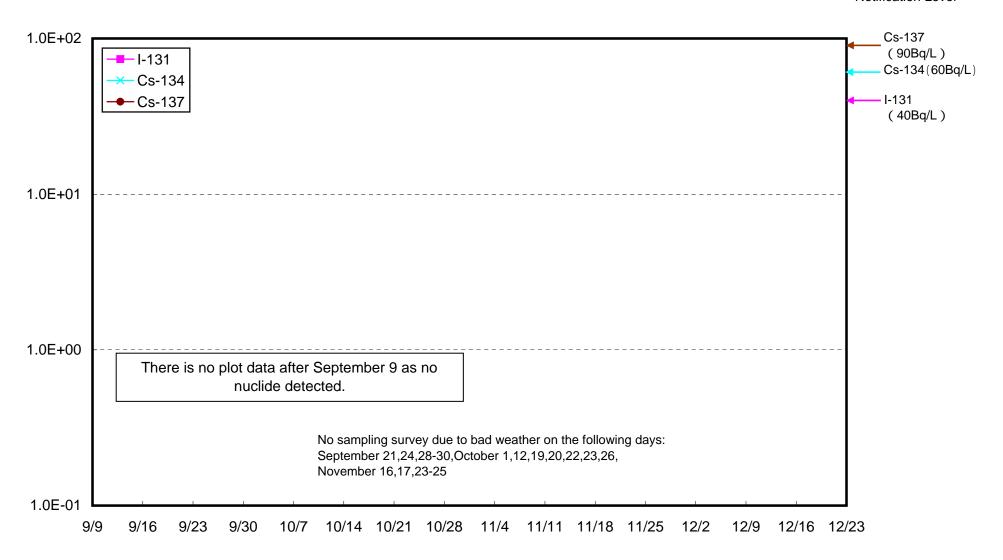


## Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)

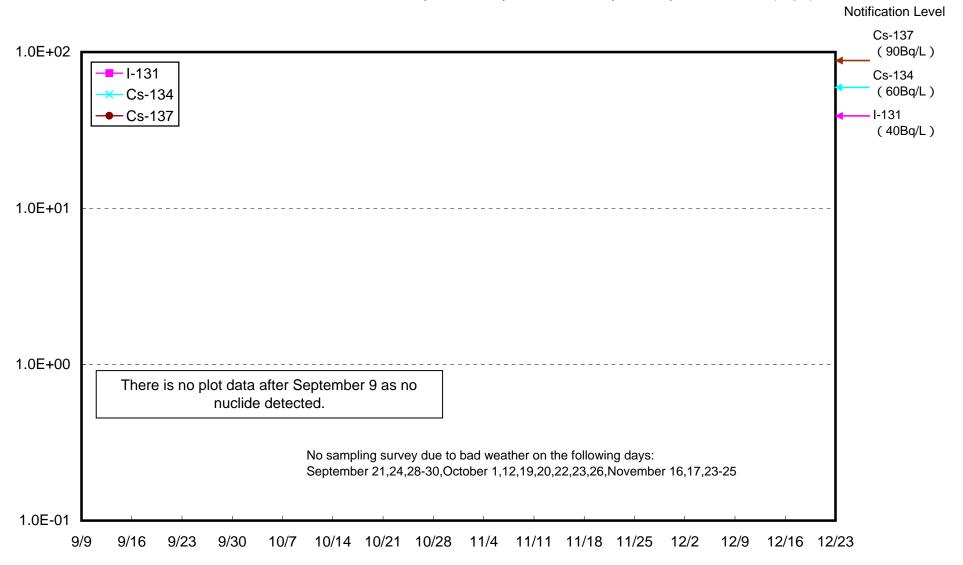


#### 15km offshore of Minami Soma city Upper Layer Radioactivity Density of Seawater (Bq/L)

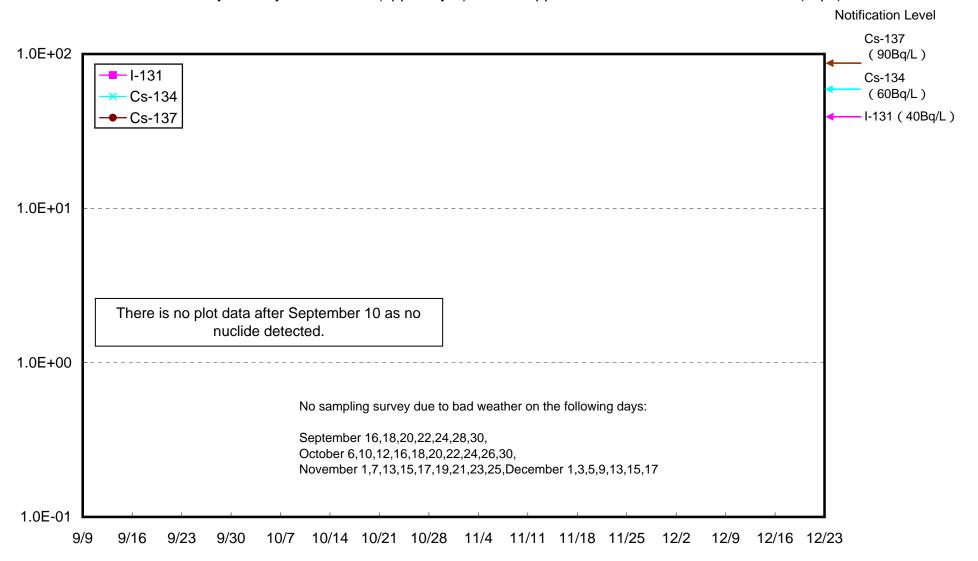
Notification Level

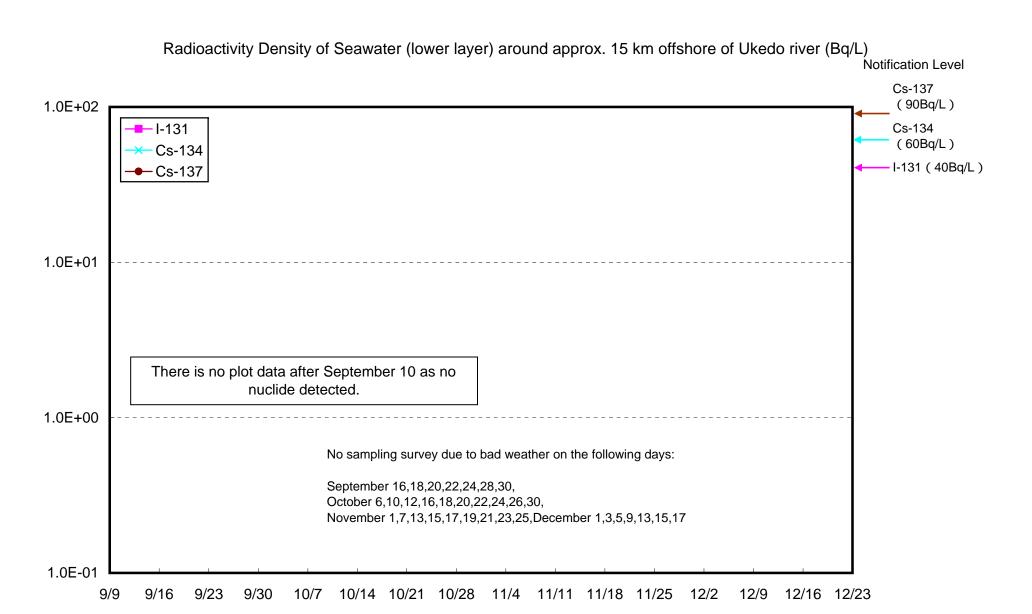


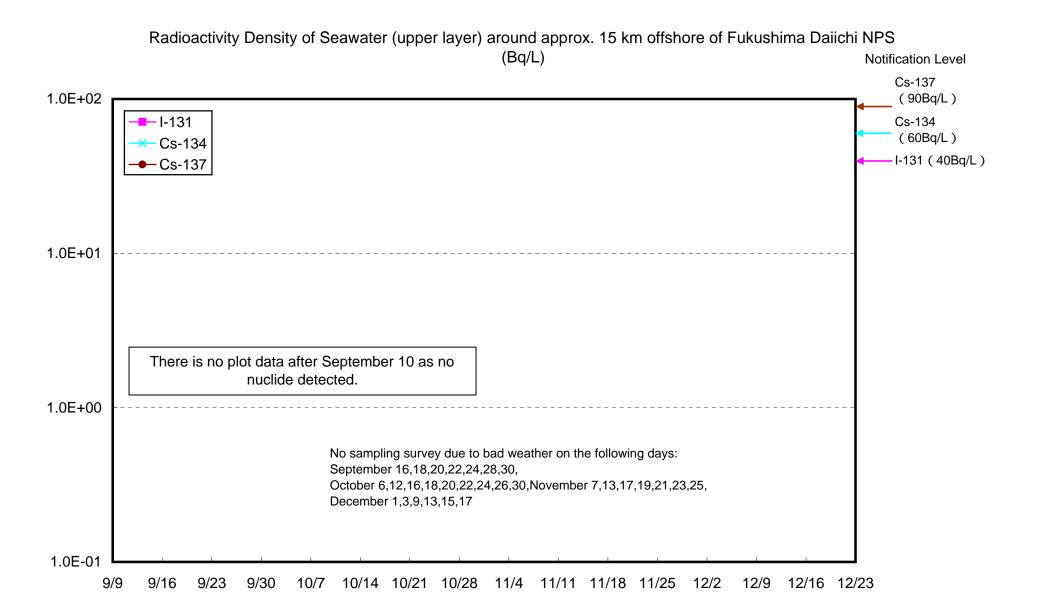


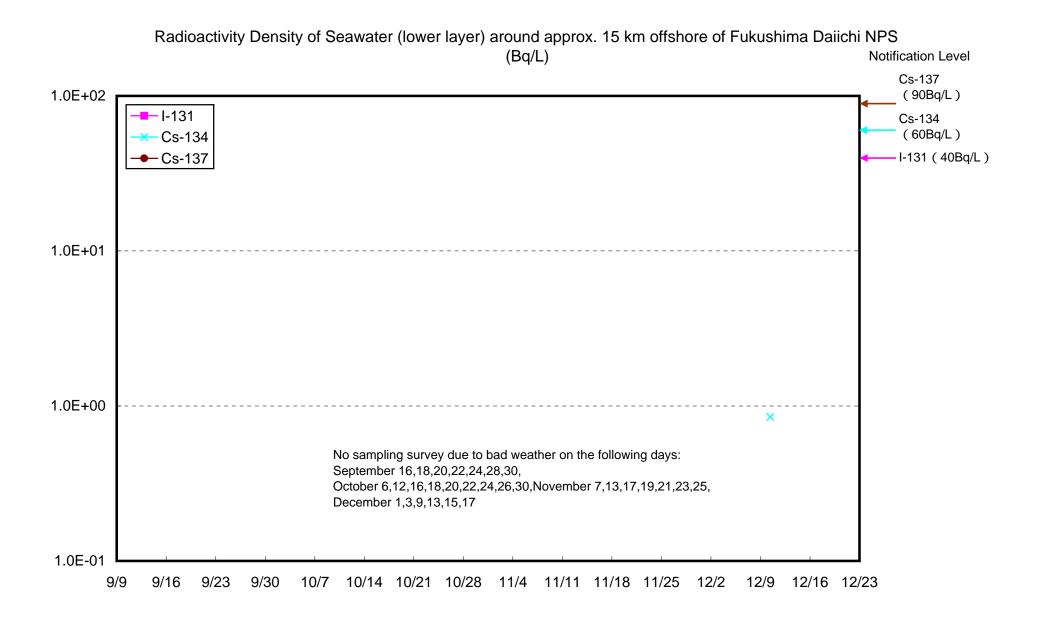


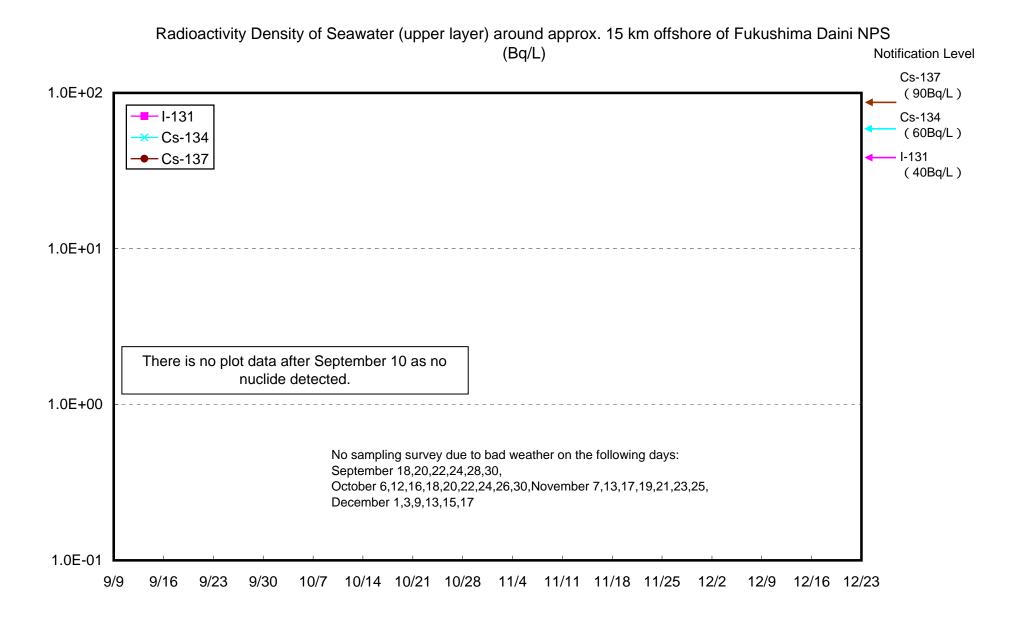
#### Radioactivity Density of Seawater (upper layer) around approx. 15 km offshore of Ukedo river (Bq/L)

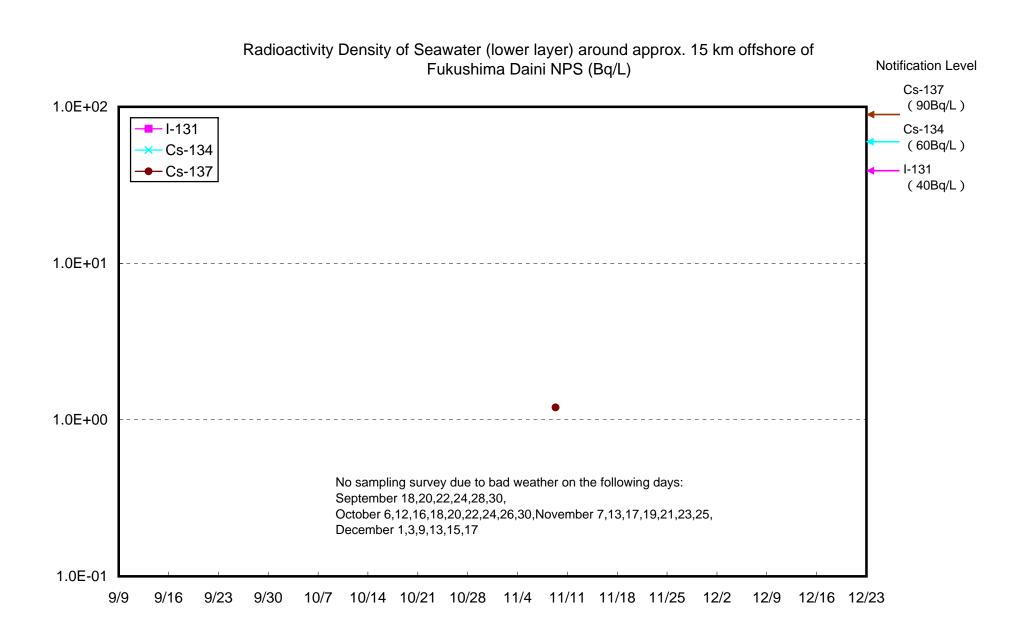


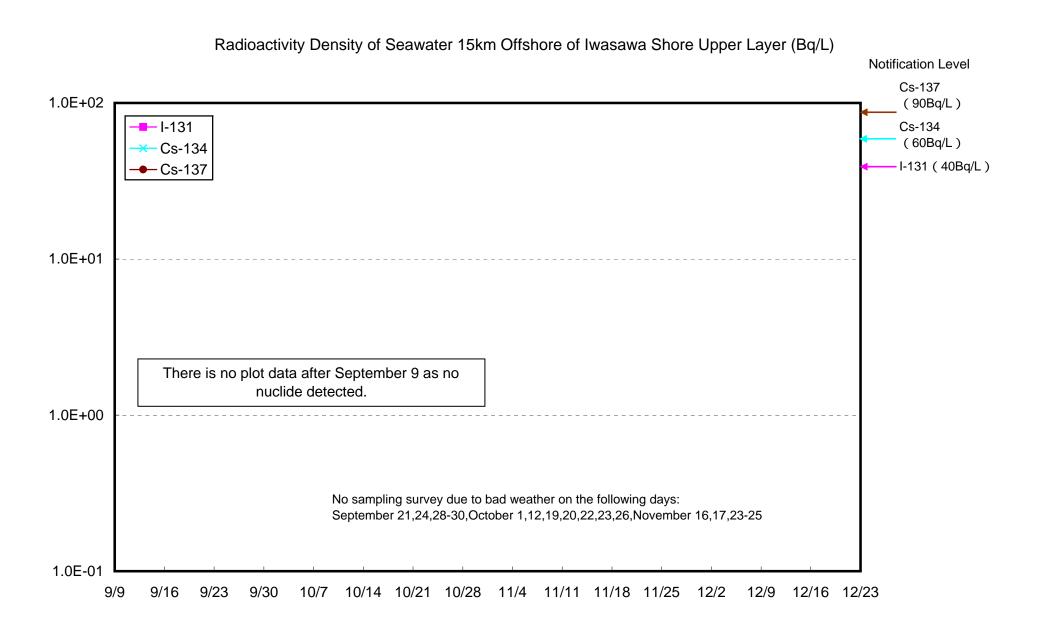


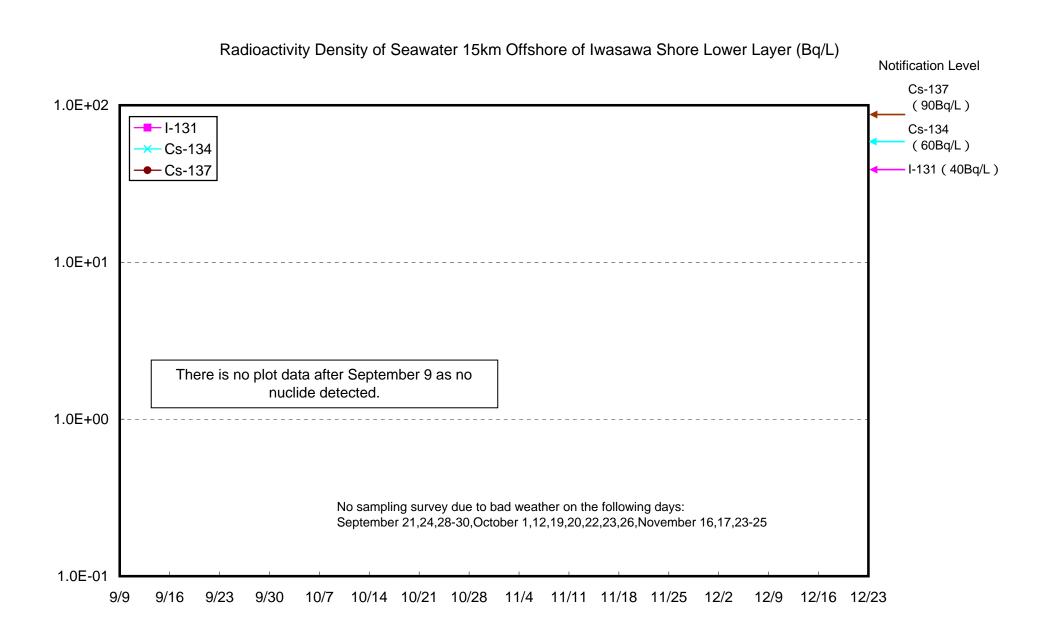


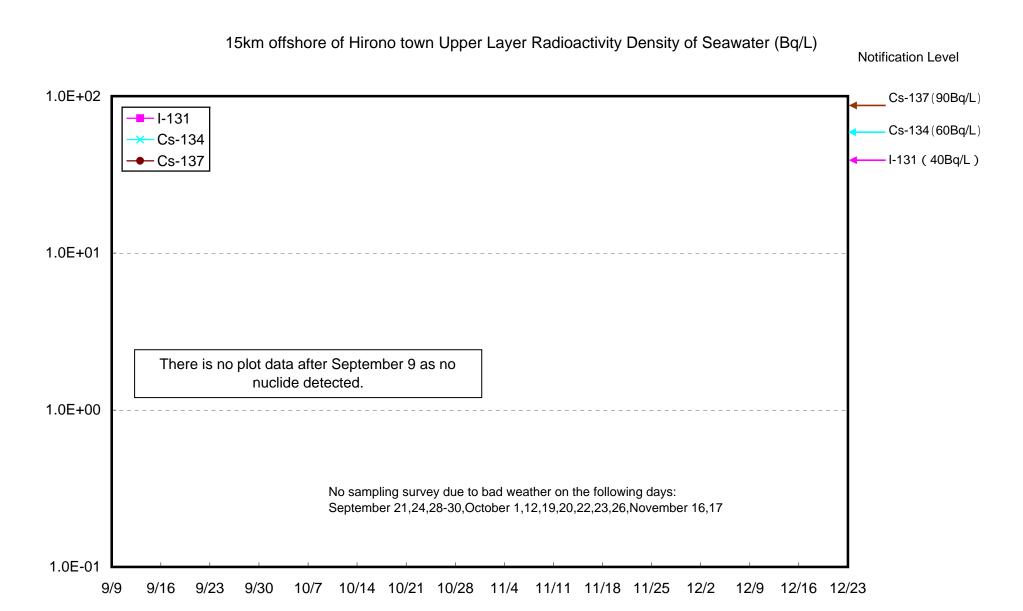


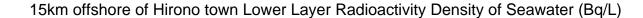












**Notification Level** 

