

Nuclides Analysis Result of the Radioactive Materials in the Seawater
< Coast, Fukushima Daiichi Nuclear Power Station, Within 20km Radius >

(Data summarized on November 13)

Place of Sampling	South side of the Ukedo Port (Approx. 5.5km north of Unit 5-6 Discharge Channel)						② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Time of Sampling	Oct 1, 2014 9:15 AM		Oct 8, 2014 9:00 AM		Oct 16, 2014 9:58 AM		
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)	
Cs-134 (Approx. 2 years)	0.022	0.00	0.029	0.00	0.077	0.00	60
Cs-137 (Approx. 30 years)	0.070	0.00	0.091	0.00	0.23	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by : Tokyo Power Technology Ltd.

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station >

(Data summarized on November 13, 2014)

Place of Sampling	North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel)		Around South Discharge Channel of Fukushima Daiichi NPS (Approx. 1.3km South of Unit 1-4 Discharge Channel)		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Time of Sampling Nov 12, 2014 6:55 AM		Time of Sampling Nov 12, 2014 5:40 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND(0.62)	-	ND(0.71)	-	40
Cs-134 (Approx. 2 years)	ND(0.68)	-	ND(0.76)	-	60
Cs-137 (Approx. 30 years)	0.74	0.01	ND(0.63)	-	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* Data of other nuclides is under evaluation.

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit, which is provided in parentheses.

Nuclides Analysis Result of the Radioactive Materials in the Seawater
< Coast, Fukushima Daiichi Nuclear Power Station, Remeasurement >

(Data summarized on November 13)

Place of Sampling	North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel)						Around South Discharge Channel of Fukushima Daiichi NPS (Approx. 1.3km South of Unit 1-4 Discharge Channel)						② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Oct 1, 2014 6:10 AM		Oct 8, 2014 6:37 AM		Oct 16, 2014 7:30 AM		Oct 1, 2014 5:30 AM		Oct 8, 2014 5:40 AM		Oct 16, 2014 5:50 AM		
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)	
Cs-134 (Approx. 2 years)	0.088	0.00	0.20	0.00	0.088	0.00	0.030	0.00	0.056	0.00	0.40	0.01	60
Cs-137 (Approx. 30 years)	0.27	0.00	0.62	0.01	0.32	0.00	0.091	0.00	0.18	0.00	1.2	0.01	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by: Tokyo Power Technology Ltd.

Nuclides Analysis Result of the Radioactive Materials in the Seawater
< Coast, Fukushima Daini Nuclear Power Station >

Reference

(Data summarized on November 13)

Place of Sampling	2F Around the North Discharge Channel (Around Unit 3-4 Discharge Channel) (Approx. 10km from 1F)						2F Around Iwasawa Shore (Approx. 7km South of Unit 1 & 2 Discharge Channel) (Approx. 16km from 1F)						② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Oct 1, 2014 10:00 AM		Oct 8, 2014 10:00 AM		Oct 16, 2014 10:00 AM		Sep 30, 2014 4:10 PM		Oct 8, 2014 4:10 PM		Oct 16, 2014 4:05 PM		
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)	
Cs-134 (Approx. 2 years)	0.022	0.00	0.094	0.00	0.093	0.00	0.035	0.00	0.053	0.00	0.062	0.00	60
Cs-137 (Approx. 30 years)	0.066	0.00	0.26	0.00	0.26	0.00	0.11	0.00	0.16	0.00	0.18	0.00	90

- * The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.
- * In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.
- * Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.
- * Analyzed by : Tokyo Power Technology Ltd.

Nuclides Analysis Result of Radioactive Materials in the Seawater <Offshore 1/4>

(Data summarized on November 13)

Place of Sampling (Place No.)	*1				*1				*2				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	3km Offshore of Odaka Ward (T-14)		3km Offshore of Odaka Ward (T-14)		3km Offshore of Odaka Ward (T-14)		3km Offshore of Odaka Ward (T-14)		3km Offshore of Ukedo River (T-D1)		3km Offshore of Ukedo River (T-D1)		
Time of Sampling	Upper Layer		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		
	Oct 1, 2014 9:10 AM		Oct 1, 2014 9:10 AM		Oct 8, 2014 9:16 AM		Oct 8, 2014 9:16 AM		Oct 1, 2014 9:42 AM		Oct 1, 2014 9:42 AM		
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)	
Cs-134 (Approx. 2 years)	0.0031	0.00	0.0019	0.00	0.0082	0.00	0.0049	0.00	0.0033	0.00	0.0081	0.00	60
Cs-137 (Approx. 30 years)	0.012	0.00	0.0078	0.00	0.022	0.00	0.012	0.00	0.0087	0.00	0.024	0.00	90

Place of Sampling (Place No.)	*2				*2				*2				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	3km Offshore of Ukedo River (T-D1)		3km Offshore of Ukedo River (T-D1)		3km Offshore of Ukedo River (T-D1)		3km Offshore of Ukedo River (T-D1)		3km Offshore of Fukushima Daiichi NPS (T-D5)		3km Offshore of Fukushima Daiichi NPS (T-D5)		
Time of Sampling	Upper Layer		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		
	Oct 8, 2014 9:52 AM		Oct 8, 2014 9:52 AM		Oct 17, 2014 9:05 AM		Oct 17, 2014 9:05 AM		Oct 1, 2014 10:22 AM		Oct 1, 2014 10:22 AM		
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)	
Cs-134 (Approx. 2 years)	0.022	0.00	0.0066	0.00	0.019	0.00	0.0044	0.00	ND	-	ND	-	60
Cs-137 (Approx. 30 years)	0.070	0.00	0.024	0.00	0.056	0.00	0.014	0.00	0.0057	0.00	0.0040	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0017Bq/L As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by : *1 THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.、 *2 Tokyo Power Technology Ltd.

Nuclides Analysis Result of Radioactive Materials in the Seawater <Offshore 2/4>

(Data summarized on November 13)

Place of Sampling (Place No.)	*2 3km Offshore of Fukushima Daiichi NPS (T-D5)				*2 3km Offshore of Fukushima Daiichi NPS (T-D5)				*2 3km Offshore of Fukushima Daini NPS (T-D9)				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		
Time of Sampling	Oct 8, 2014 10:24 AM		Oct 8, 2014 10:24 AM		Oct 17, 2014 8:10 AM		Oct 17, 2014 8:10 AM		Oct 2, 2014 9:24 AM		Oct 2, 2014 9:24 AM		
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)	
Cs-134 (Approx. 2 years)	0.024	0.00	0.0055	0.00	0.014	0.00	0.0063	0.00	0.0081	0.00	ND	-	60
Cs-137 (Approx. 30 years)	0.067	0.00	0.018	0.00	0.045	0.00	0.016	0.00	0.023	0.00	0.0067	0.00	90

Place of Sampling (Place No.)	*2 3km Offshore of Fukushima Daini NPS (T-D9)				*2 3km Offshore of Fukushima Daini NPS (T-D9)				*1 15km Offshore of Fukushima Daiichi NPS (T-5)				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		
Time of Sampling	Oct 8, 2014 8:10 AM		Oct 8, 2014 8:10 AM		Oct 18, 2014 9:42 AM		Oct 18, 2014 9:42 AM		Oct 2, 2014 8:28 AM		Oct 2, 2014 8:28 AM		
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)	
Cs-134 (Approx. 2 years)	0.030	0.00	0.0052	0.00	0.012	0.00	0.0079	0.00	ND	-	ND	-	60
Cs-137 (Approx. 30 years)	0.094	0.00	0.018	0.00	0.036	0.00	0.027	0.00	0.0030	0.00	0.0032	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0017Bq/L As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by : *1 THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.、 *2 Tokyo Power Technology Ltd.

Nuclides Analysis Result of Radioactive Materials in the Seawater <Offshore 3/4>

(Data summarized on November 13)

Place of Sampling (Place No.)	15km Offshore of Fukushima Daiichi NPS (T-5)				3km Offshore of Iwasawa Shore (T-11)				3km Offshore of Iwasawa Shore (T-11)				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		
Time of Sampling	Oct 8, 2014 9:38 AM		Oct 8, 2014 9:38 AM		Sep 26, 2014 7:27 AM		Sep 26, 2014 7:27 AM		Oct 2, 2014 10:17 AM		Oct 2, 2014 10:17 AM		
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)	
Cs-134 (Approx. 2 years)	0.0018	0.00	ND	-	0.0024	0.00	0.0042	0.00	0.0087	0.00	ND	-	60
Cs-137 (Approx. 30 years)	0.0065	0.00	0.0028	0.00	0.010	0.00	0.017	0.00	0.029	0.00	0.0076	0.00	90

Place of Sampling (Place No.)	3km Offshore of Iwasawa Shore (T-11)				3km Offshore of Northern Iwaki City (T-12)				1km Offshore of Natsui River (T-17-1)				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		
Time of Sampling	Oct 8, 2014 7:33 AM		Oct 8, 2014 7:33 AM		Oct 4, 2014 6:14 AM		Oct 4, 2014 6:14 AM		Oct 4, 2014 6:44 AM		Oct 4, 2014 6:44 AM		
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)	
Cs-134 (Approx. 2 years)	0.031	0.00	0.011	0.00	0.030	0.00	0.011	0.00	0.0071	0.00	0.0023	0.00	60
Cs-137 (Approx. 30 years)	0.10	0.00	0.036	0.00	0.087	0.00	0.035	0.00	0.022	0.00	0.0084	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0014Bq/L As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by : THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

Nuclides Analysis Result of Radioactive Materials in the Seawater <Offshore 4/4>

(Data summarized on November 13)

Place of Sampling (Place No.)	3km Offshore of Toyoma (T-20)				Around 1km Offshore of Ota River (T-S1)				Around 3km Offshore of Odaka Ward (T-S2)				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		
Time of Sampling	Oct 4, 2014 7:11 AM		Oct 4, 2014 7:11 AM		Sep 26, 2014 6:14 AM		Sep 26, 2014 6:14 AM		Sep 26, 2014 5:48 AM		Sep 26, 2014 5:48 AM		
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)	
Cs-134 (Approx. 2 years)	ND	-	0.0024	0.00	0.0032	0.00	0.0028	0.00	0.0023	0.00	0.0084	0.00	60
Cs-137 (Approx. 30 years)	0.0059	0.00	0.0090	0.00	0.012	0.00	0.013	0.00	0.011	0.00	0.022	0.00	90

Place of Sampling (Place No.)	Around 3km Offshore of Ukedo River (T-S3)				Around 3km Offshore of Fukushima Daiichi NPS (T-S4)				/				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		
Time of Sampling	Sep 24, 2014 6:14 AM		Sep 24, 2014 6:14 AM		Sep 24, 2014 5:46 AM		Sep 24, 2014 5:46 AM		/		/		
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)	
Cs-134 (Approx. 2 years)	0.0069	0.00	0.0053	0.00	0.0063	0.00	0.0072	0.00	/	/	/	/	60
Cs-137 (Approx. 30 years)	0.022	0.00	0.020	0.00	0.020	0.00	0.022	0.00	/	/	/	/	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0016Bq/L As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by : THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

Nuclides Analysis Result of Radioactive Materials in the Seawater<1/6>

(Data summarized on November 13)

Place of Sampling (Place No.)	Around North Discharge Channel of Fukushima Daini NPS (T-3) (Around Unit 3, 4 Discharge Channel) (Approx. 10km of Fukushima Daiichi NPS)		South Side of the Ukedo Port (T- 6) (Approx. 5.5km North of Unit 5, 6 Discharge Channel)				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Sep 16, 2014		Sep 16, 2014				
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)	
Cs-134 (Approx. 2 years)	0.043	0.00	0.017	0.00	/	/	60
Cs-137 (Approx. 30 years)	0.12	0.00	0.049	0.00	/	/	90
H-3 (approx. 12yrs)	ND	—	ND	—	/	/	60,000
All β	ND	—	ND	—	/	/	—

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* Radioactivity Density "-" means "not allicable".

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Nuclide analysis results of Cs-134 and Cs-137 were announced on October 28, 2014.

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

H-3: Approx. 0.38Bq/L, Gross β: Approx. 17Bq/L,

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

(Evaluation)

H-3 and Gross β were not detected in the sample collected this time.

Nuclides Analysis Result of Radioactive Materials in the Seawater<2/6>

(Data summarized on November 13)

Place of Sampling (Place No.)	Around North Discharge Channel of Fukushima Daini NPS (T-3) (Around Unit 3, 4 Discharge Channel) (Approx. 10km of Fukushima Daiichi NPS)		South Side of the Ukedo Port (T- 6) (Approx. 5.5km North of Unit 5, 6 Discharge Channel)				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Oct 16, 2014		Oct 16, 2014				
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)	
Cs-134 (Approx. 2 years)	0.093	0.00	0.077	0.00	/	/	60
Cs-137 (Approx. 30 years)	0.26	0.00	0.23	0.00	/	/	90
H-3 (approx. 12yrs)	ND	—	ND	—	/	/	60,000
All β	ND	—	ND	—	/	/	—

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* Radioactivity Density "-" means "not allicable".

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Nuclide analysis results of Cs-134 and Cs-137 were announced on November 13, 2014.

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

H-3: Approx. 0.30Bq/L, Gross β: Approx. 17Bq/L,

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

(Evaluation)

H-3 and Gross β were not detected in the sample collected this time.

Nuclides Analysis Result of Radioactive Materials in the Seawater <3/6>

(Data summarized on November 13)

Place of Sampling (Place No.)	15km Offshore of Fukushima Daiichi NPS(T-5) Upper Layer		3km Offshore of Ukedo River (T-D1) Upper Layer		3km Offshore of Fukushima Daiichi NPS (T-D5) Upper Layer		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Sep 16, 2014		Sep 16, 2014		Sep 16, 2014		
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)	
Cs-134 (Approx. 2 years)	ND	—	0.0042	0.00	0.0031	0.00	60
Cs-137 (Approx. 30 years)	0.0022	0.00	0.013	0.00	0.012	0.00	90
H-3 (approx. 12yrs)	ND	—	ND	—	ND	—	60,000
All α	—	—	—	—	—	—	—
All β	ND	—	ND	—	ND	—	—
Sr-90 (Approx. 29 years)	—	—	—	—	—	—	30

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* "-" means "not applicable".

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Nuclide analysis results of Cs-134 and Cs-137 were announced on October 28, 2014.

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 0.0012Bq/L, H-3: Approx. 0.32Bq/L, Gross β: Approx. 15Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

(Evaluation)

H-3 and Gross β were not detected in the sample collected this time.

Nuclides Analysis Result of Radioactive Materials in the Seawater <4/6>

(Data summarized on November 13)

Place of Sampling (Place No.)	3km Offshore of Fukushima Daini NPS (T-D9) Upper Layer		/		/		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Sep 16, 2014		/		/		
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)	
Cs-134 (Approx. 2 years)	0.011	0.00	/	/	/	/	60
Cs-137 (Approx. 30 years)	0.034	0.00	/	/	/	/	90
H-3 (approx. 12yrs)	ND	—	/	/	/	/	60,000
All α	—	—	/	/	/	/	—
All β	ND	—	/	/	/	/	—
Sr-90 (Approx. 29 years)	—	—	/	/	/	/	30

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* Radioactivity density "—" means "not applicable".

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Nuclide analysis results of Cs-134 and Cs-137 were announced on October 28, 2014.

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

H-3: Approx. 0.32Bq/L, Gross β: Approx. 15Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

(Evaluation)

H-3 and Gross β were not detected in the sample collected this time.

Nuclides Analysis Result of Radioactive Materials in the Seawater<5/6>

(Data summarized on November 13)

Place of Sampling (Place No.)	15km Offshore of Fukushima Daiichi NPS(T-5) Upper Layer		3km Offshore of Ukedo River (T-D1) Upper Layer		3km Offshore of Fukushima Daiichi NPS (T-D5) Upper Layer		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Date of Sampling		Date of Sampling		Date of Sampling		
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)	
Cs-134 (Approx. 2 years)	ND	—	0.0033	0.00	ND	—	60
Cs-137 (Approx. 30 years)	0.0030	0.00	0.0087	0.00	0.0057	0.00	90
H-3 (approx. 12yrs)	ND	—	ND	—	ND	—	60,000
All α	ND	—	ND	—	ND	—	—
All β	ND	—	ND	—	ND	—	—
Sr-90 (Approx. 29 years)	ND	—	ND	—	ND	—	30

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Nuclide analysis results of Cs-134 and Cs-137 were announced on November 13, 2014.

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

The detection are as follows.

Cs-134: Approx. 0.0017Bq/L, H-3: Approx. 0.32Bq/L, Gross α: Approx. 1.9Bq/L, Gross β: Approx. 17Bq/L, Sr-90: Approx. 0.009Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected

* Nuclides analysis of Sr-90 was done by Japan Chemical Analysis Center.

(Evaluation)

H-3, Gross α, Gross β and Sr-90 were not detected in the sample collected this time.

Nuclides Analysis Result of Radioactive Materials in the Seawater <6/6>

(Data summarized on November 13)

Place of Sampling (Place No.)	3km Offshore of Fukushima Daini NPS (T-D9) Upper Layer						② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Date of Sampling	Oct 2, 2014					
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)	
Cs-134 (Approx. 2 years)	0.0081	0.00					60
Cs-137 (Approx. 30 years)	0.023	0.00					90
H-3 (approx. 12yrs)	ND	—					60,000
All α	ND	—					—
All β	ND	—					—
Sr-90 (Approx. 29 years)	ND	—					30

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Nuclide analysis results of Cs-134 and Cs-137 were announced on November 13, 2014.

* When the measurement value is below the detection limit, "ND" is marked.

The detection are as follows.

H-3: Approx. 0.32Bq/L, Gross α: Approx. 1.9Bq/L, Gross β: Approx. 17Bq/L, Sr-90: Approx. 0.008Bq/L

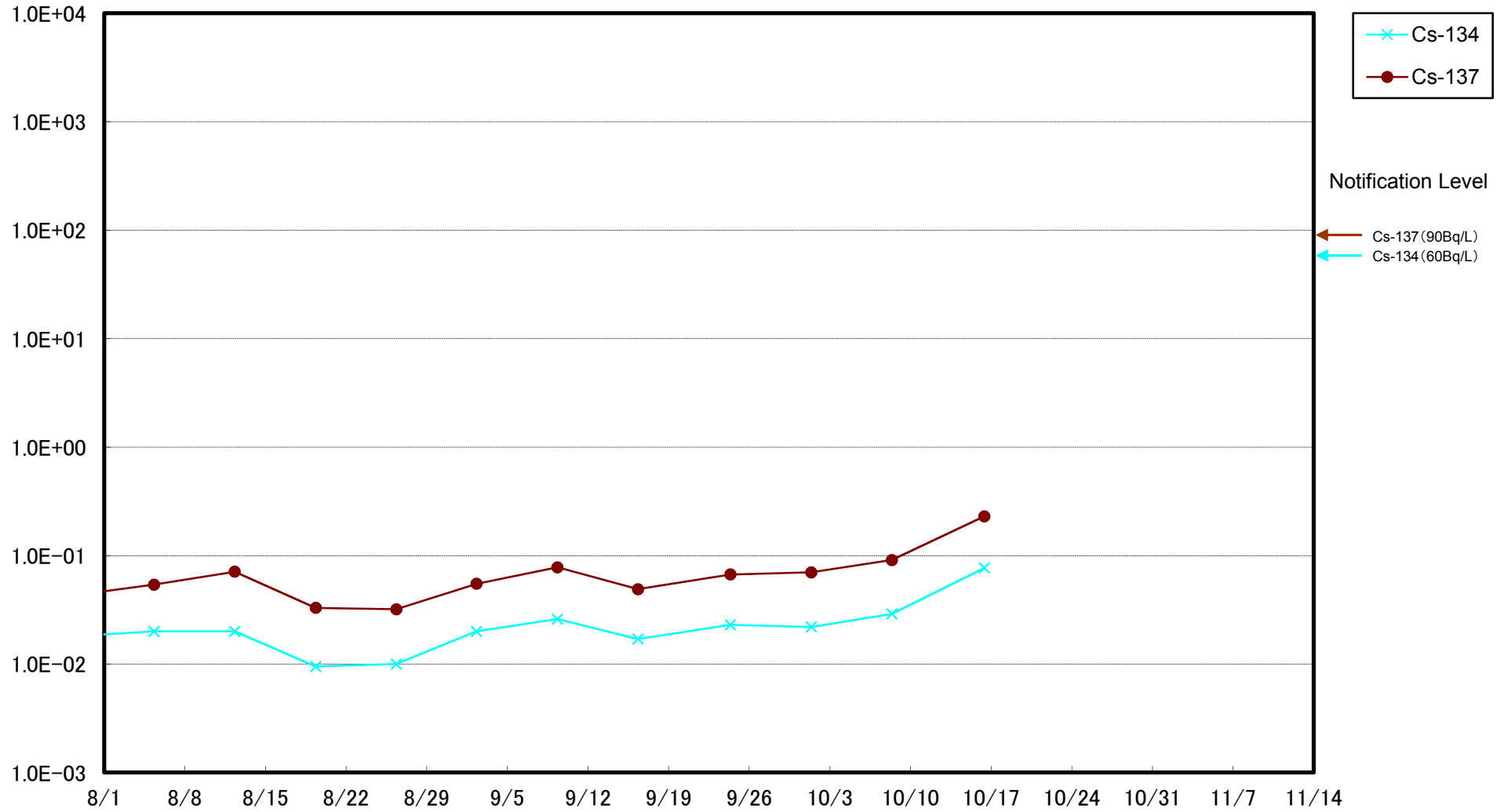
As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Nuclides analysis of Sr-90 was done by Japan Chemical Analysis Center.

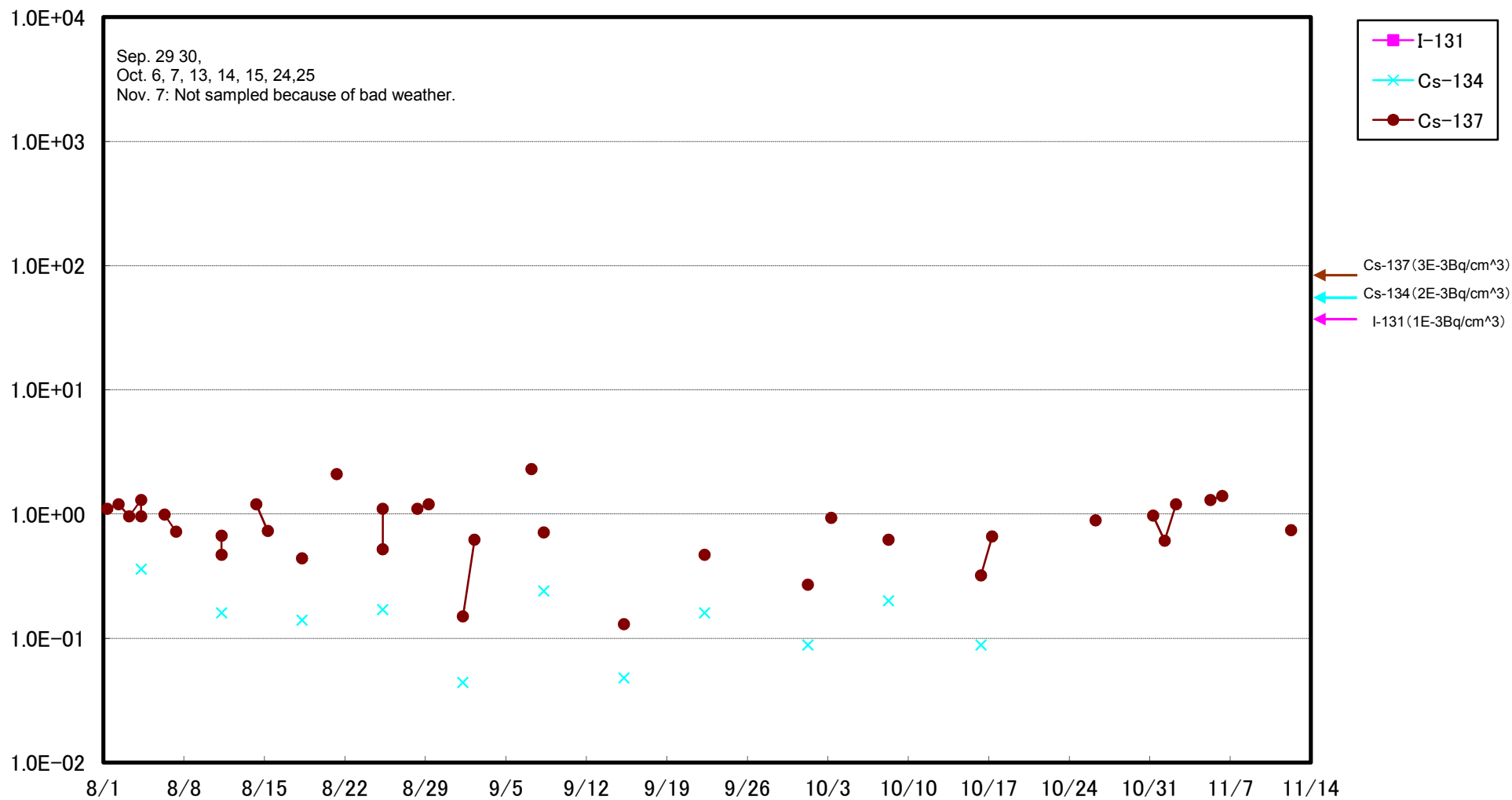
(Evaluation)

H-3, Gross α, Gross β and Sr-90 were not detected in the sample collected this time.

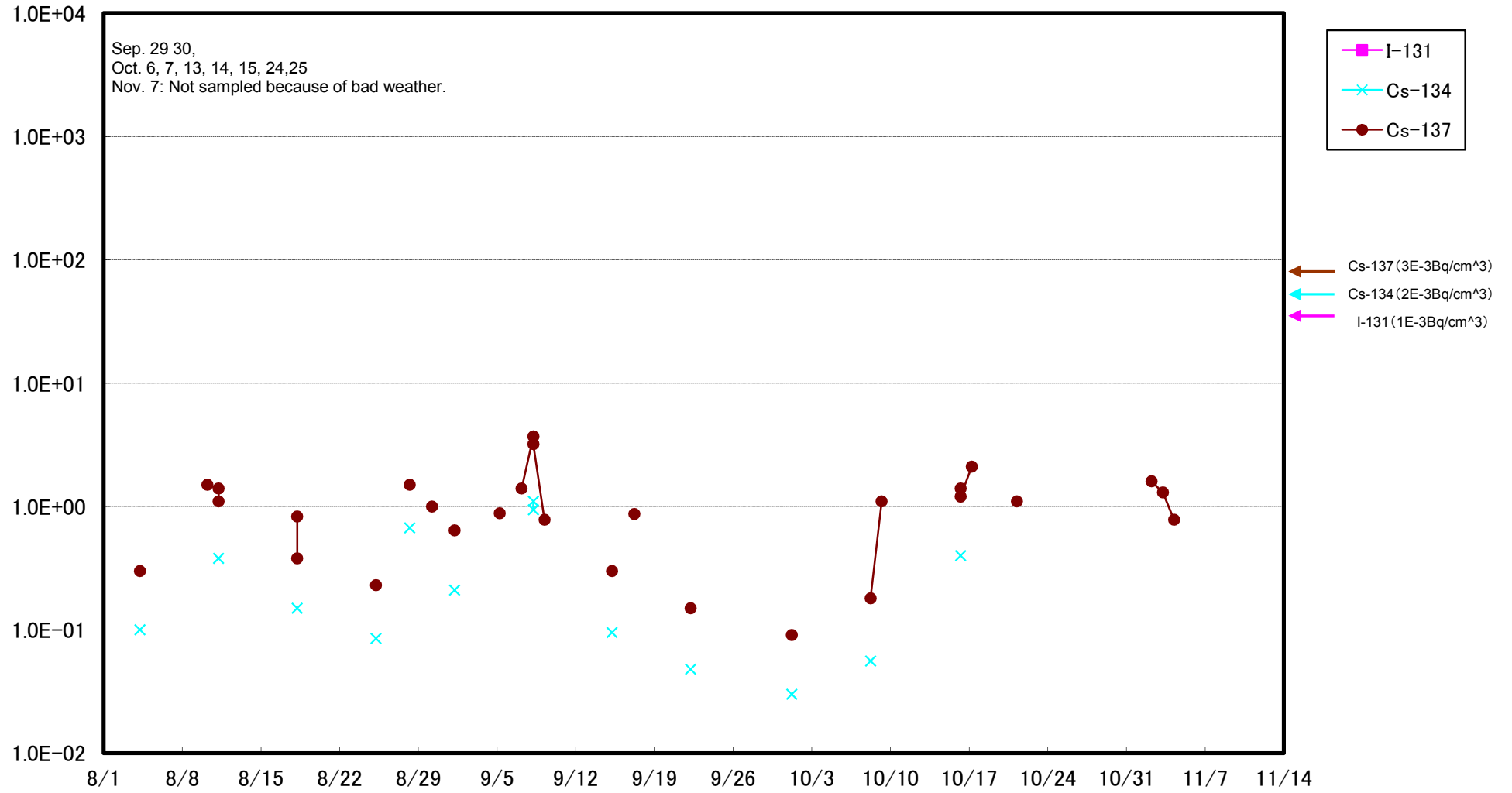
Radioactivity Density of the Seawater at South of Ukedo port (Bq/L)



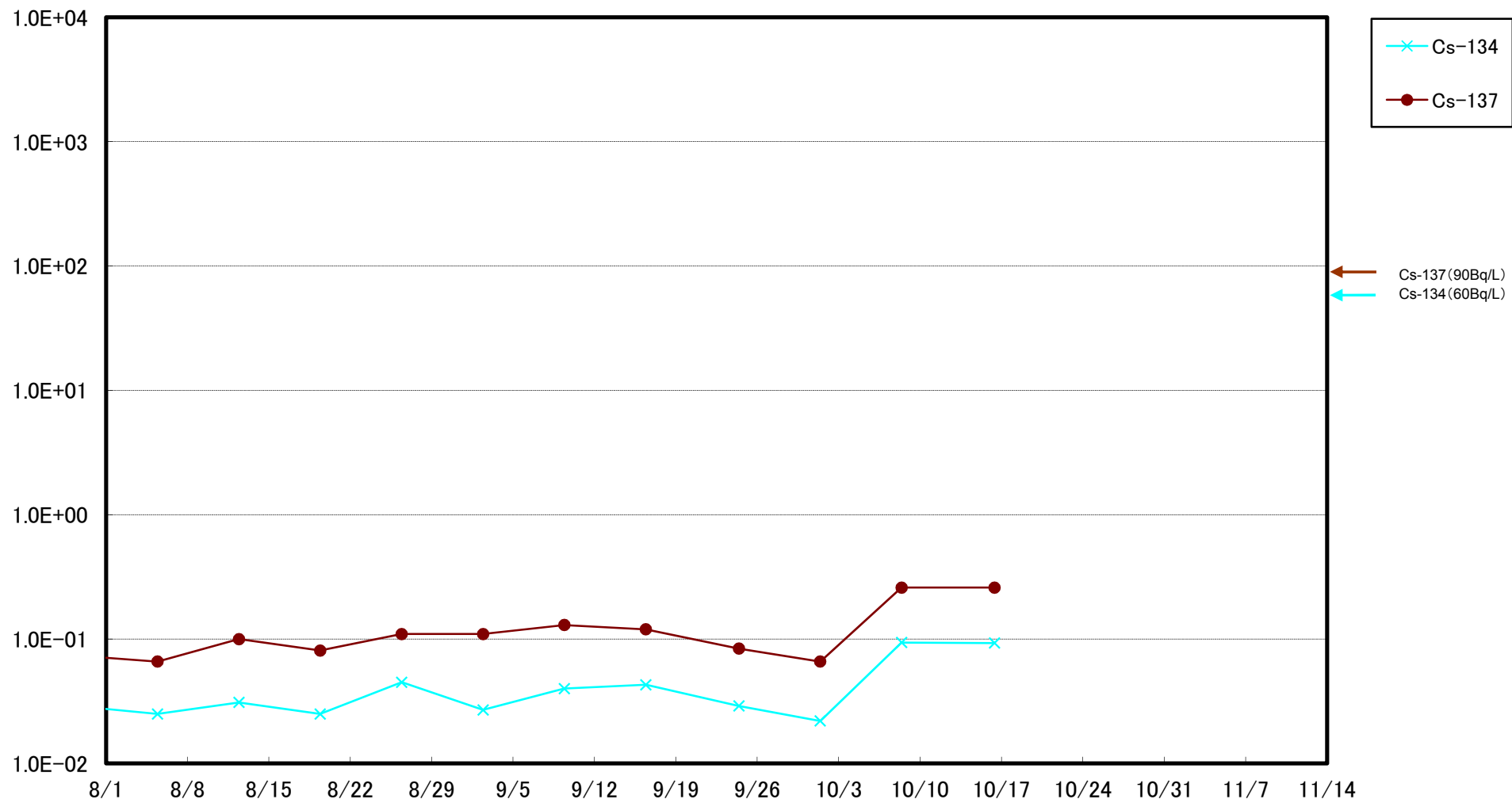
Radioactivity Density of the Seawater at 1F Units 5-6 North Discharge Channel (Bq/L)



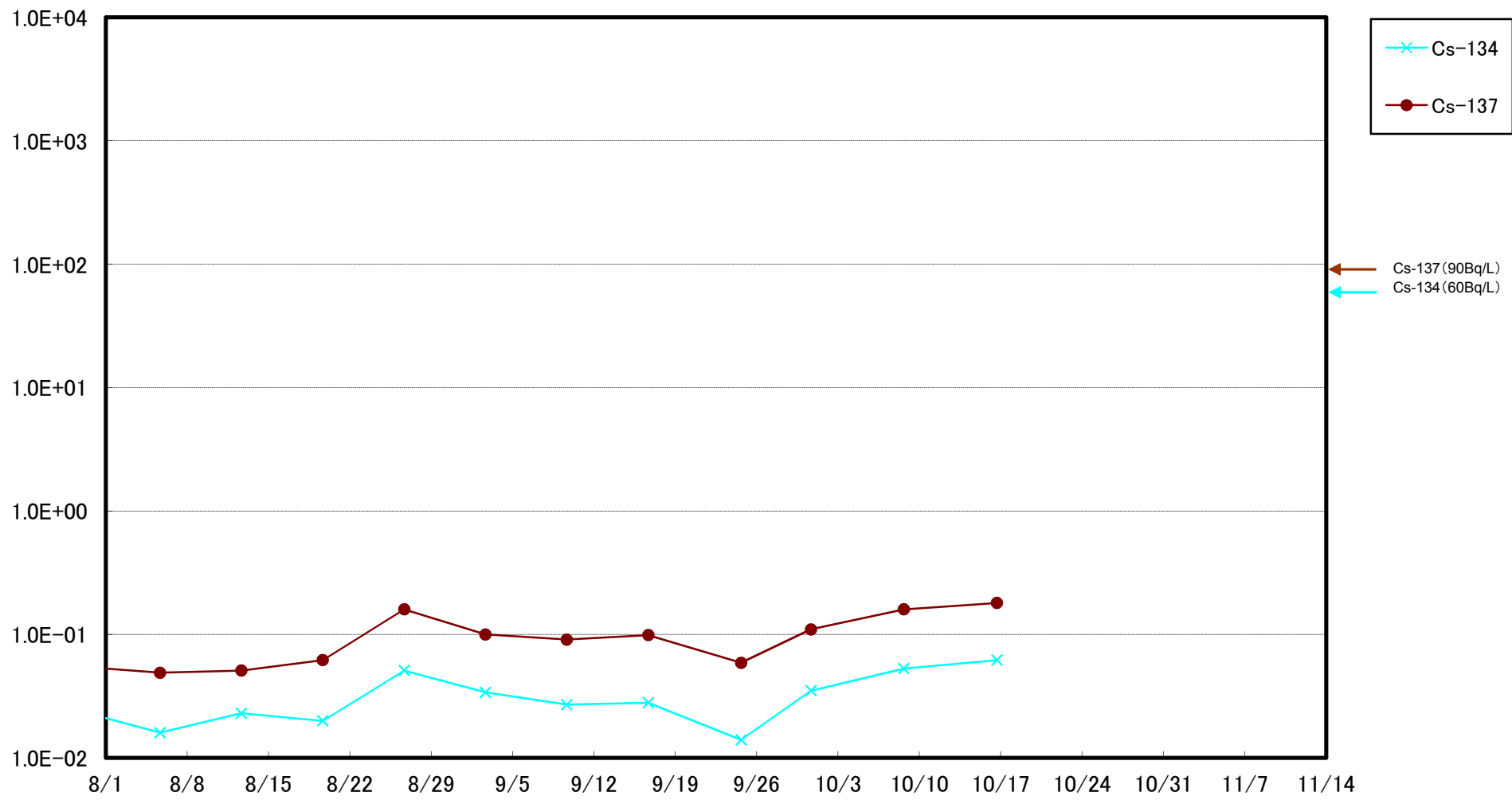
Radioactivity Density of the Seawater at 1F South Discharge Channel (Bq/L)



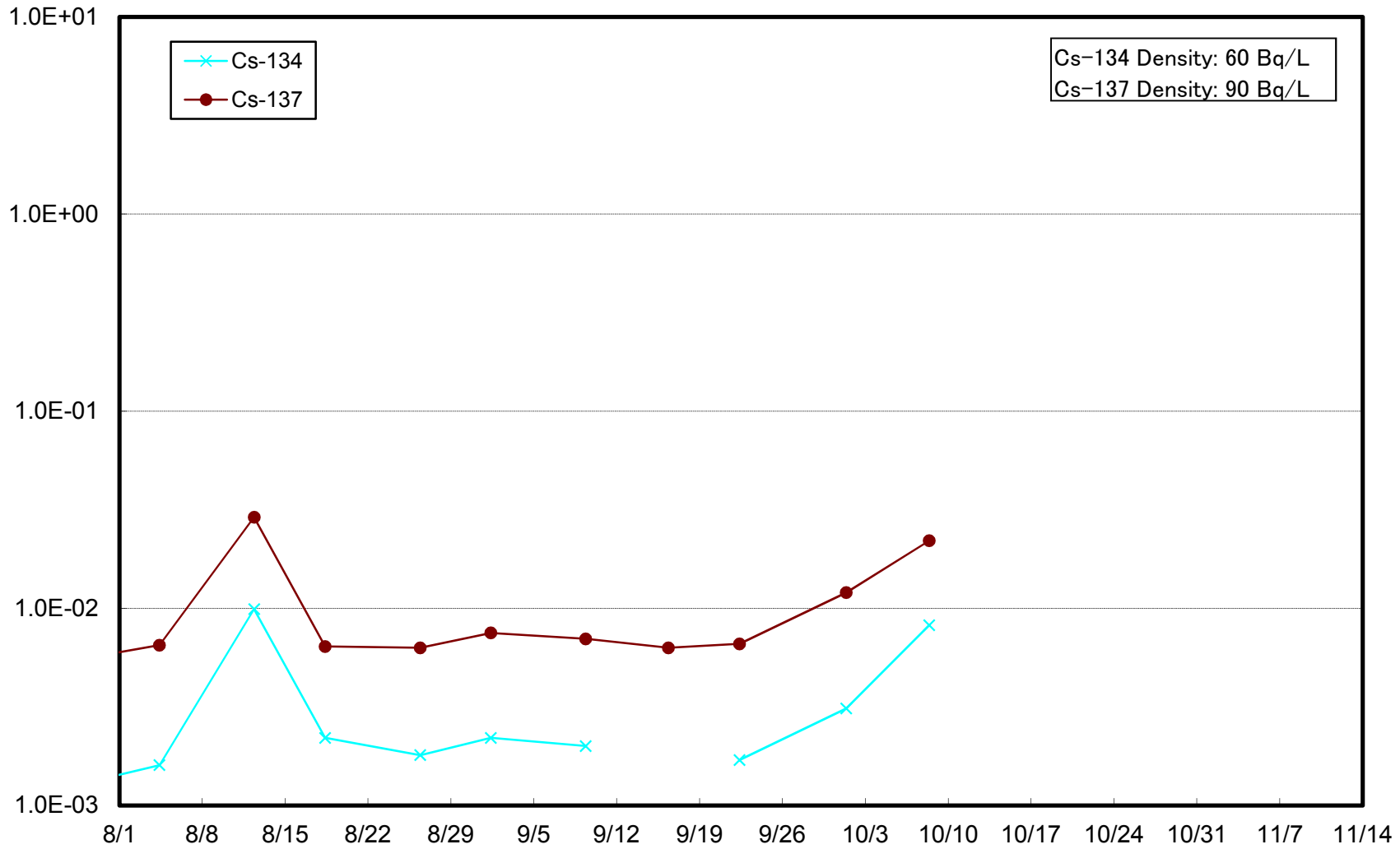
Radioactivity Density of the Seawater at 2F North Discharge Channel (Bq/L)



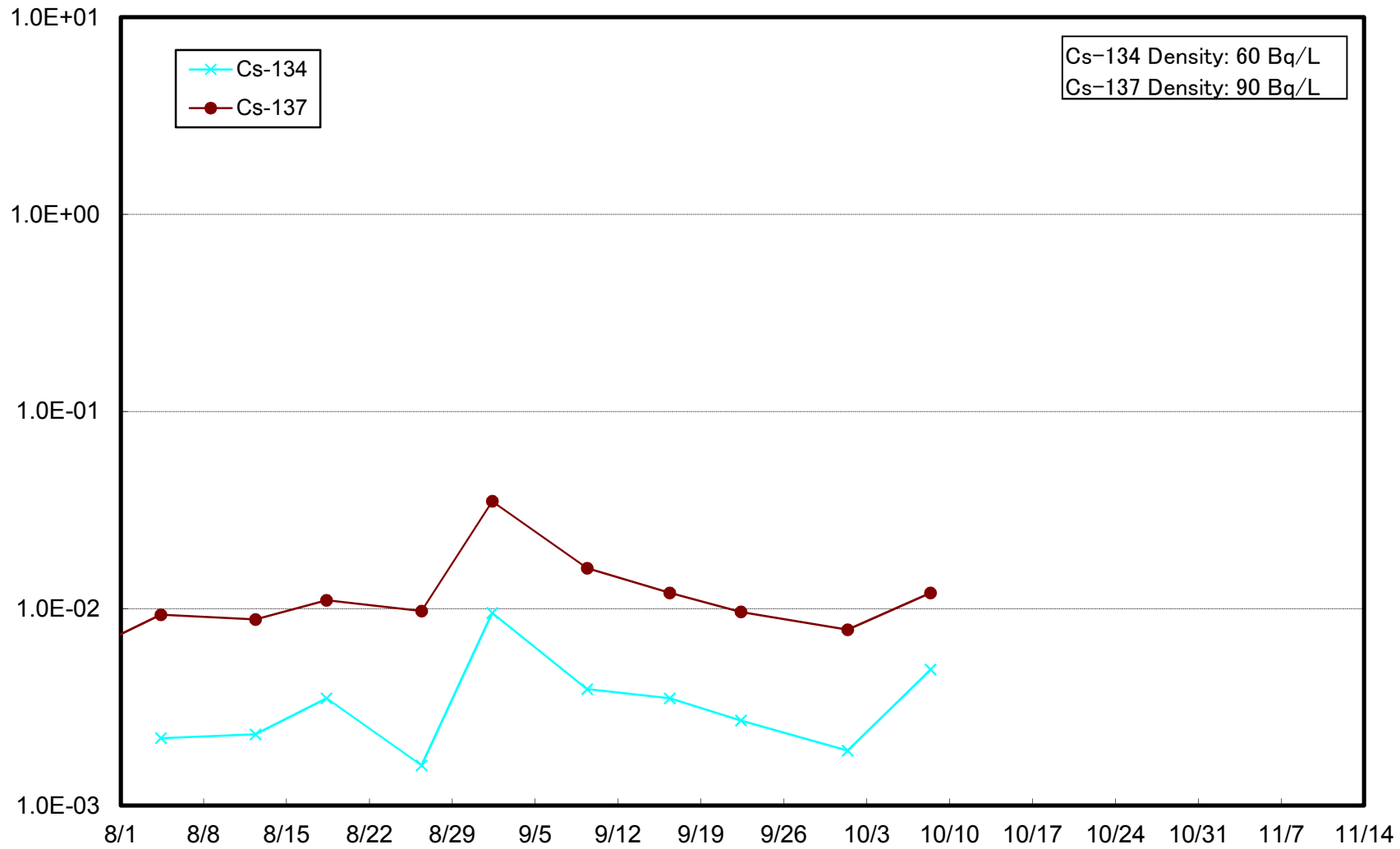
Radioactivity Density of the Seawater Around the Iwasawa Shore of 2F (Bq/L)



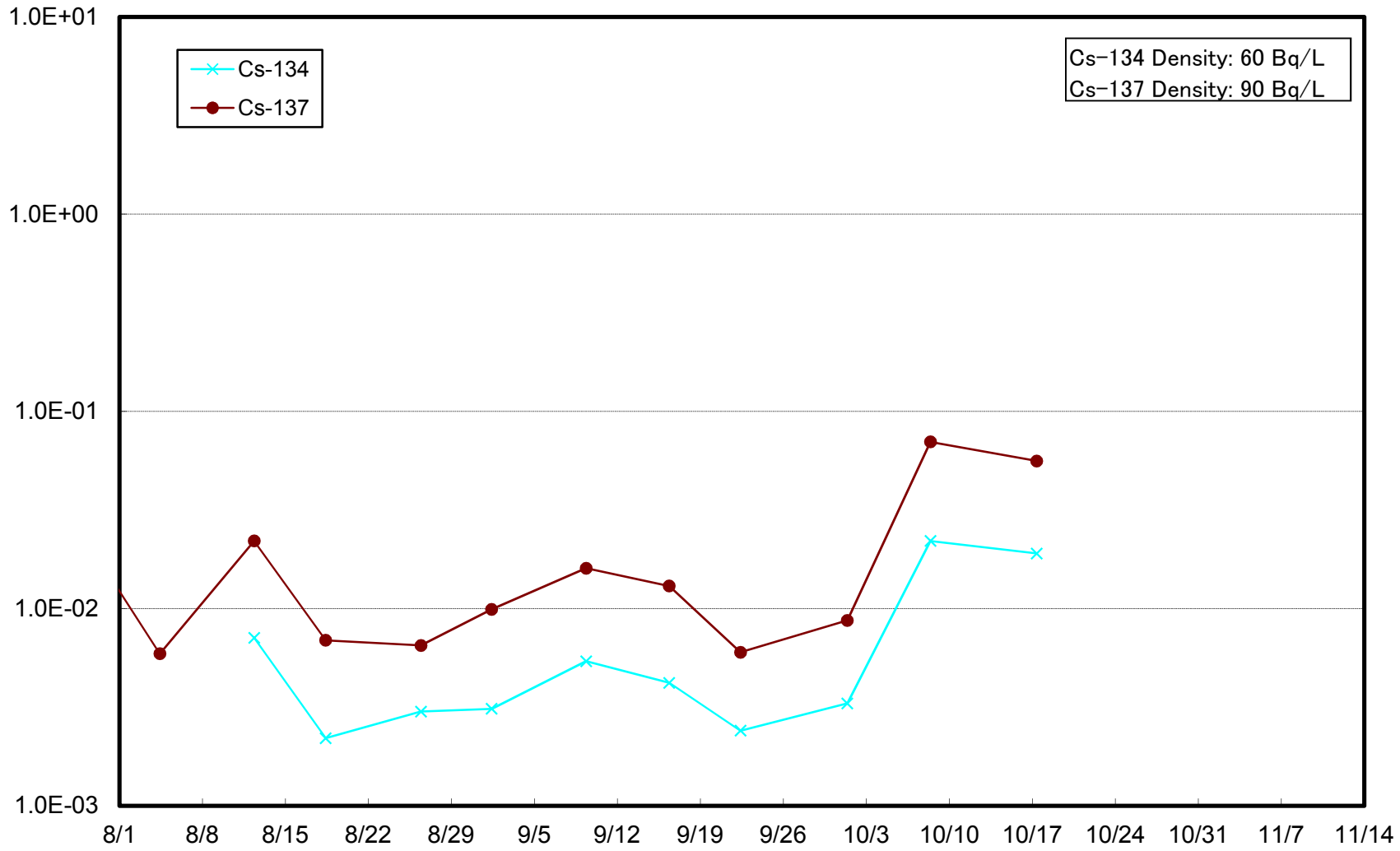
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Upper Layer (Bq/L)



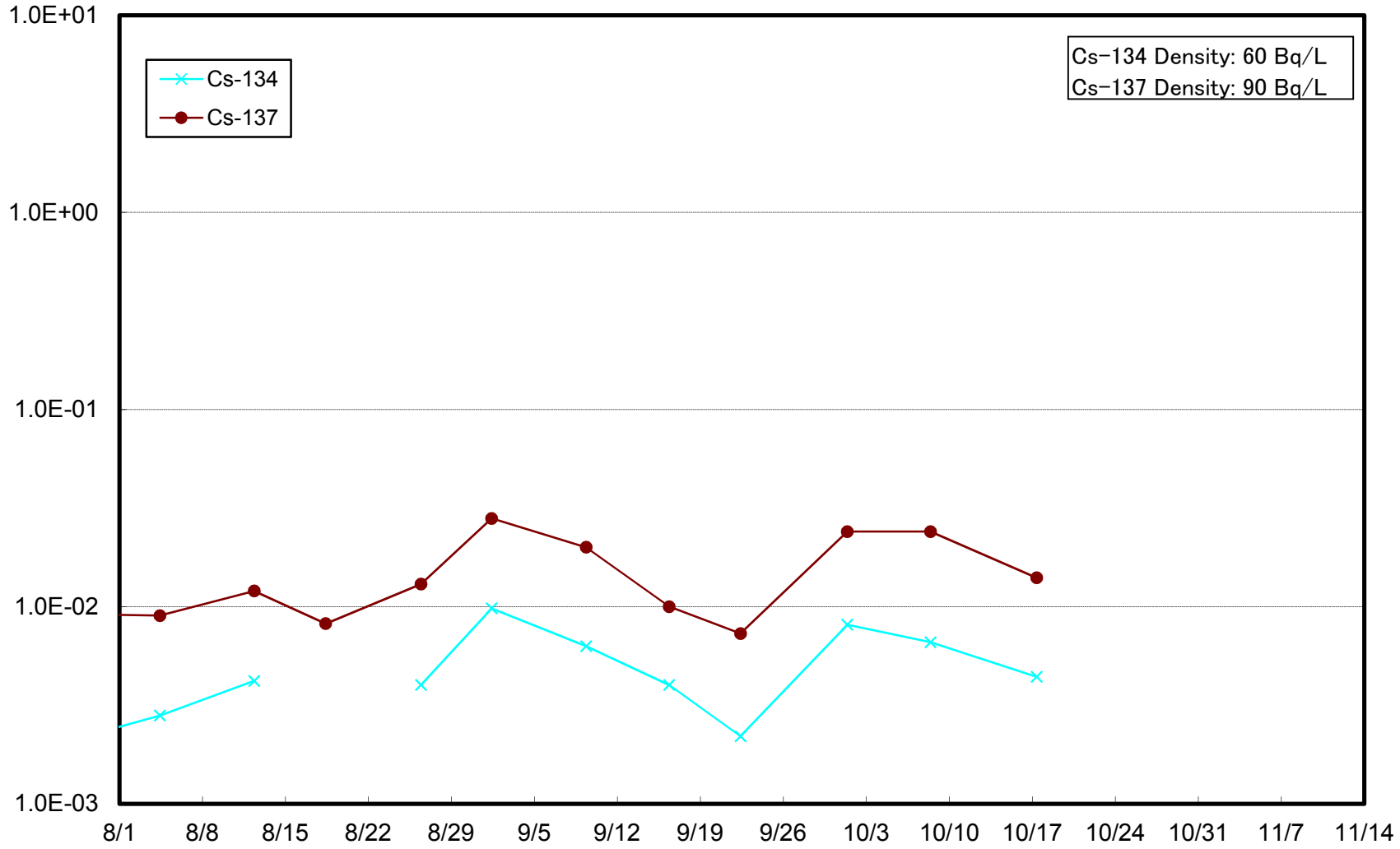
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Lower Layer (Bq/L)



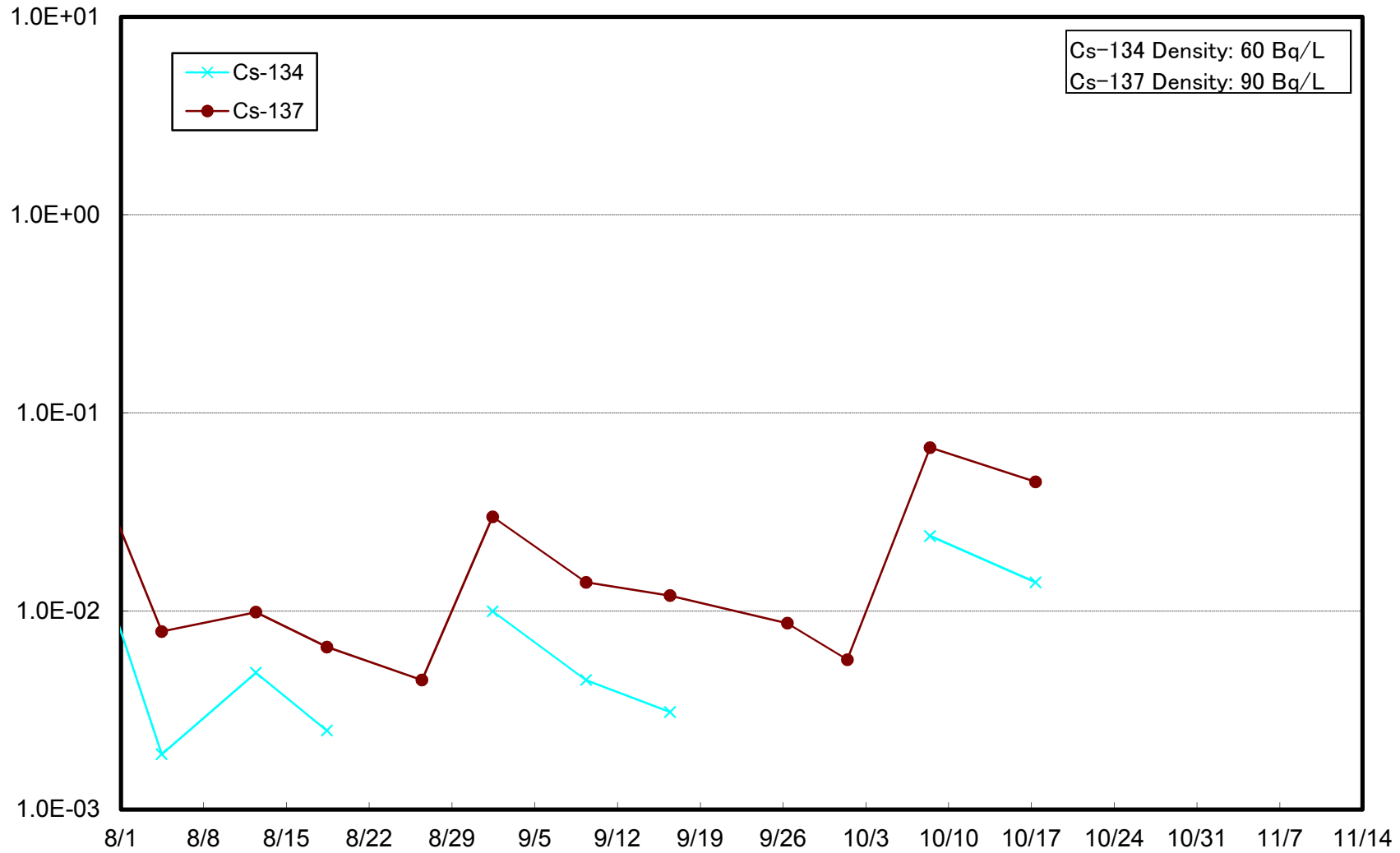
Radioactivity Density of the Seawater at 3km Offshore of Ukedo River (T-D1) Upper Layer (Bq/L)



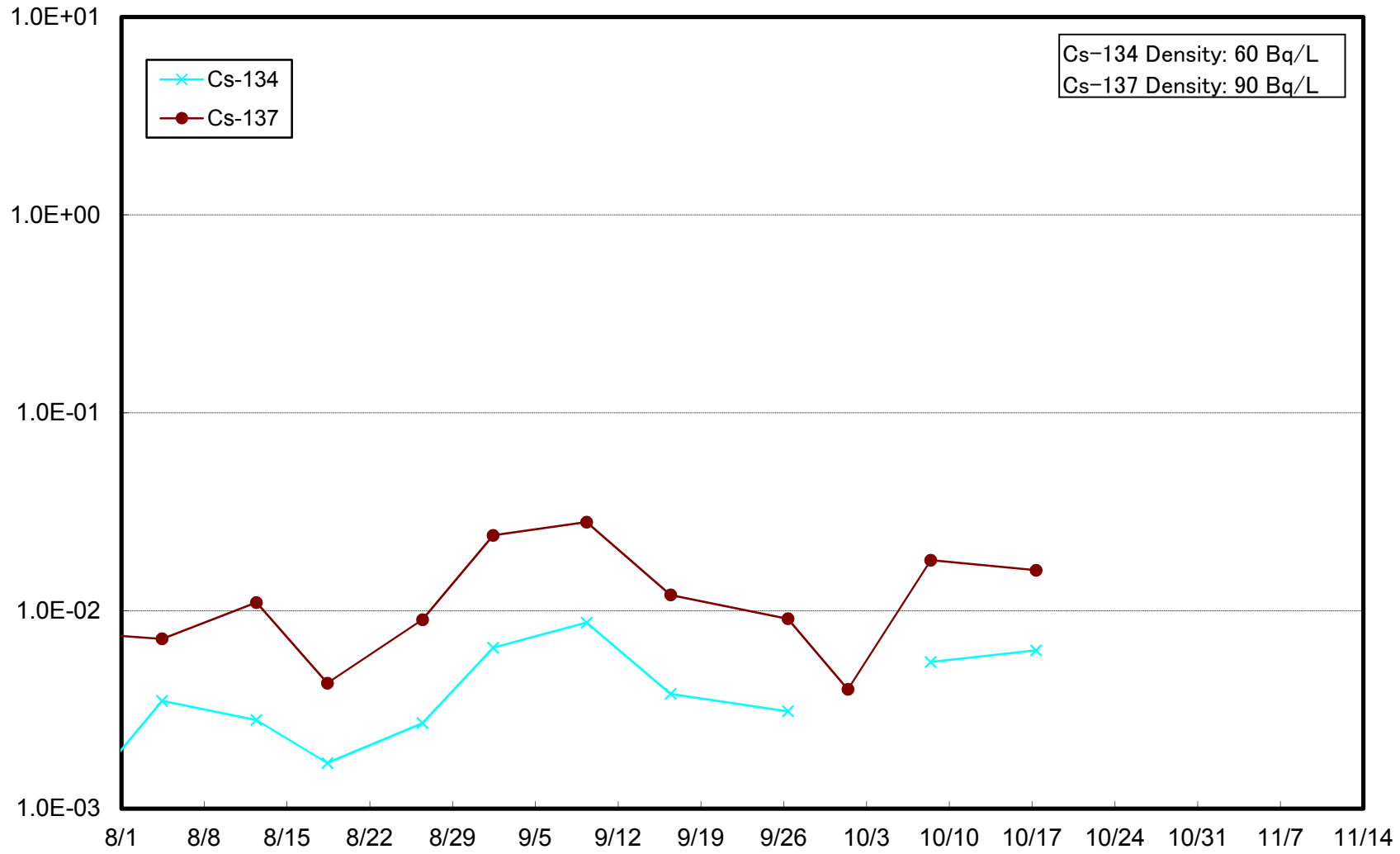
Radioactivity Density of the Seawater at 3km Offshore of Ukedo River (T-D1) Lower Layer (Bq/L)



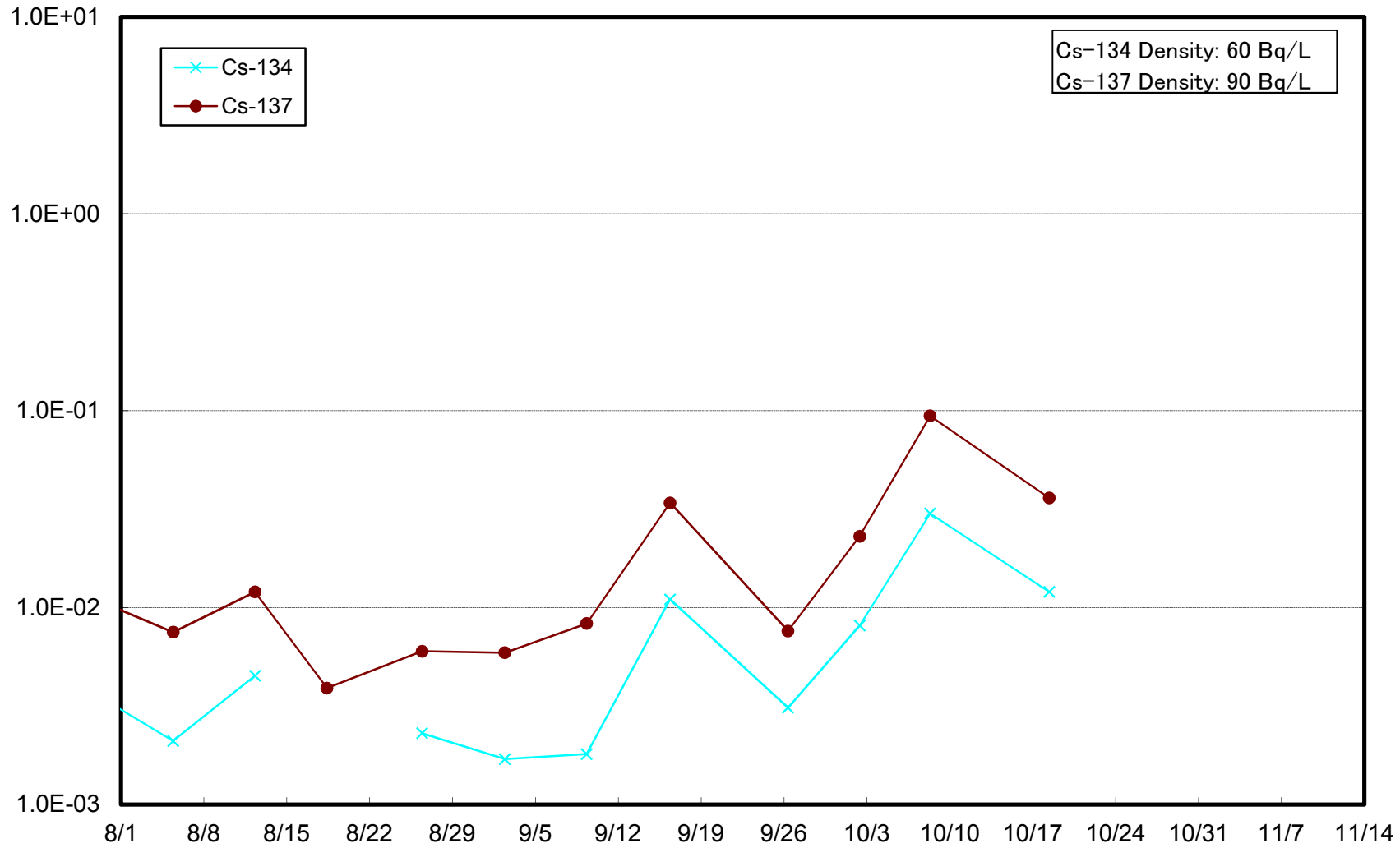
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daiichi NPS (T-D5) Upper Layer (Bq/L)



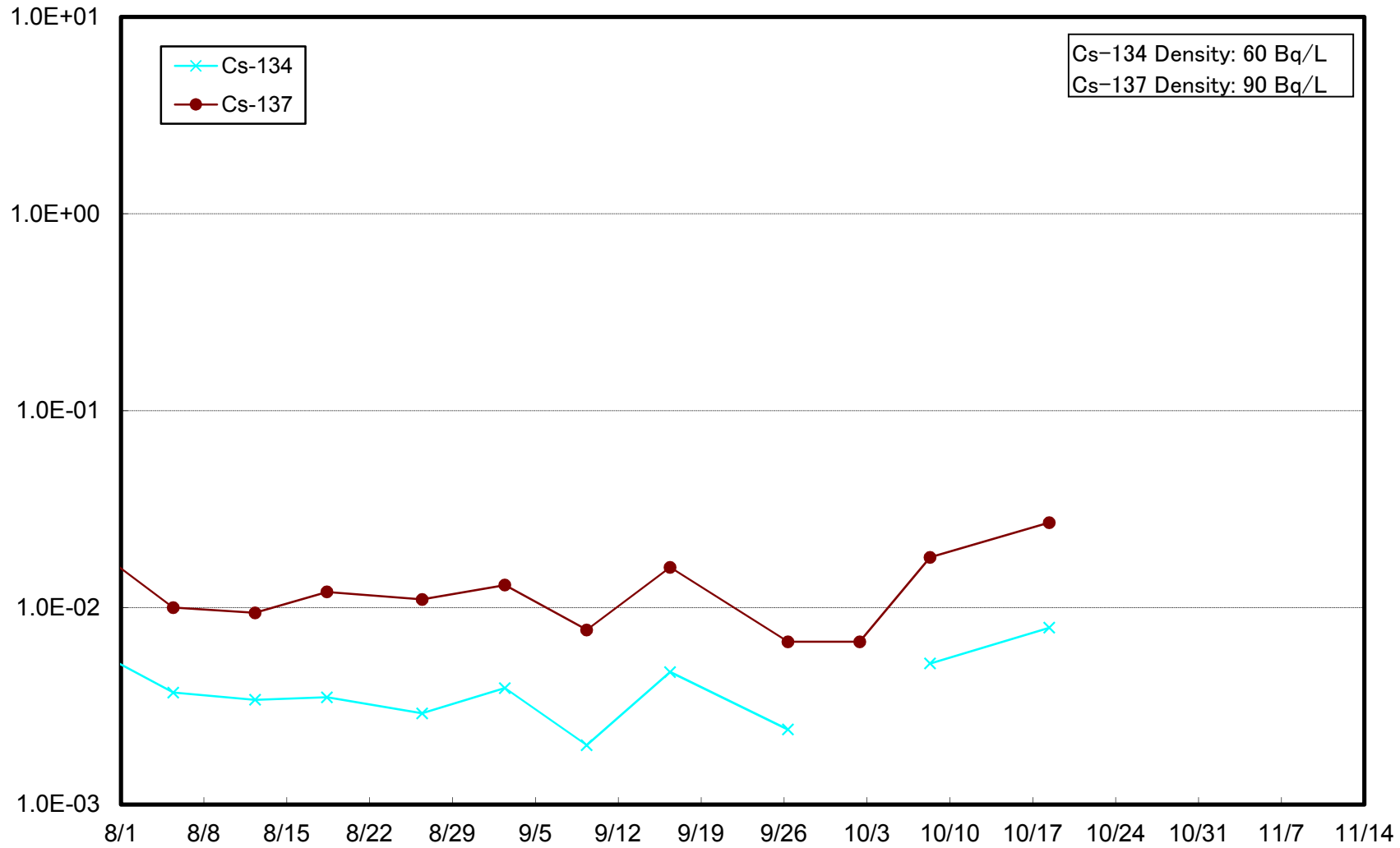
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daiichi NPS (T-D5) Lower Layer (Bq/L)



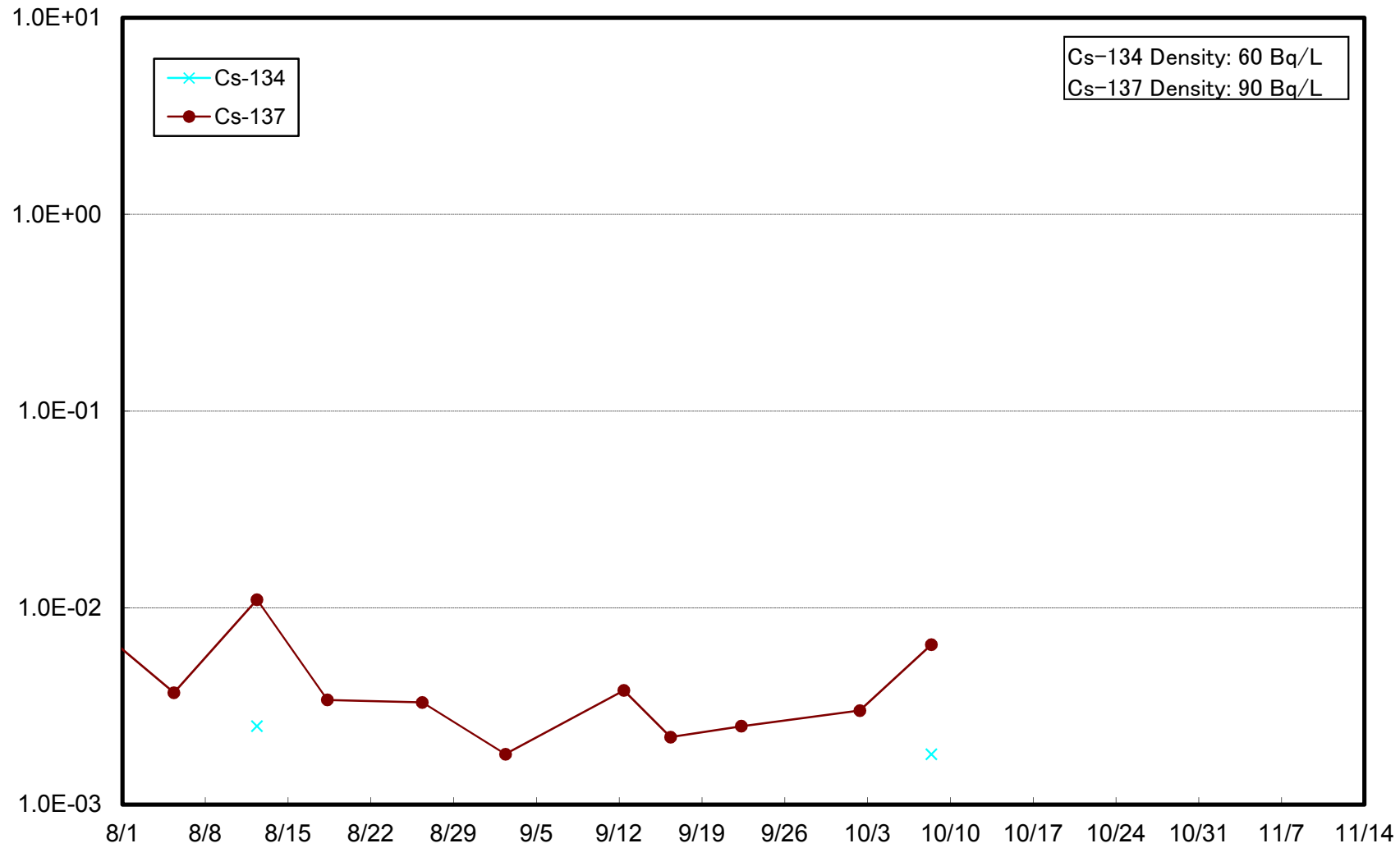
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daini NPS (T-D9) Upper Layer (Bq/L)



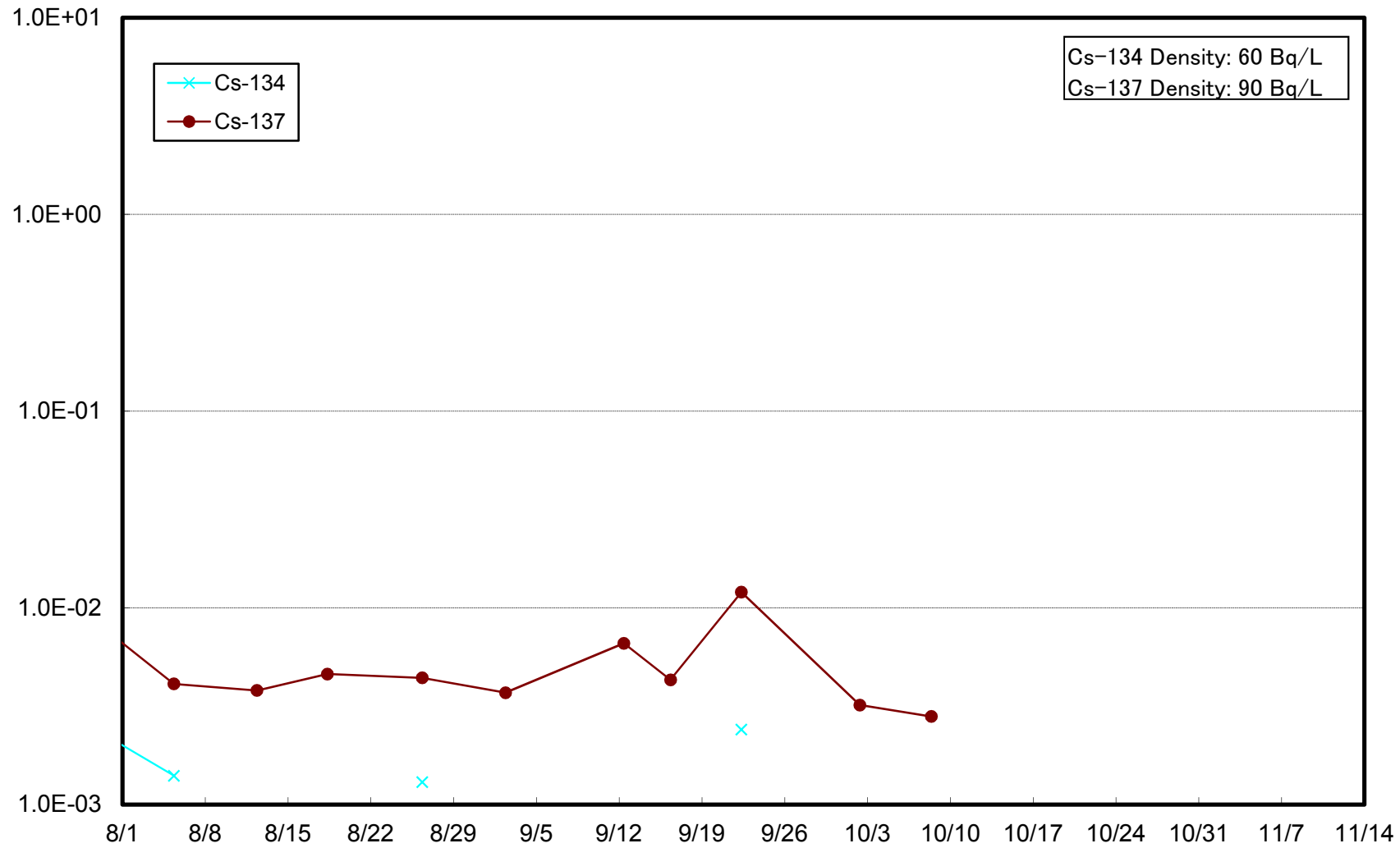
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daini NPS (T-D9) Lower Layer (Bq/L)



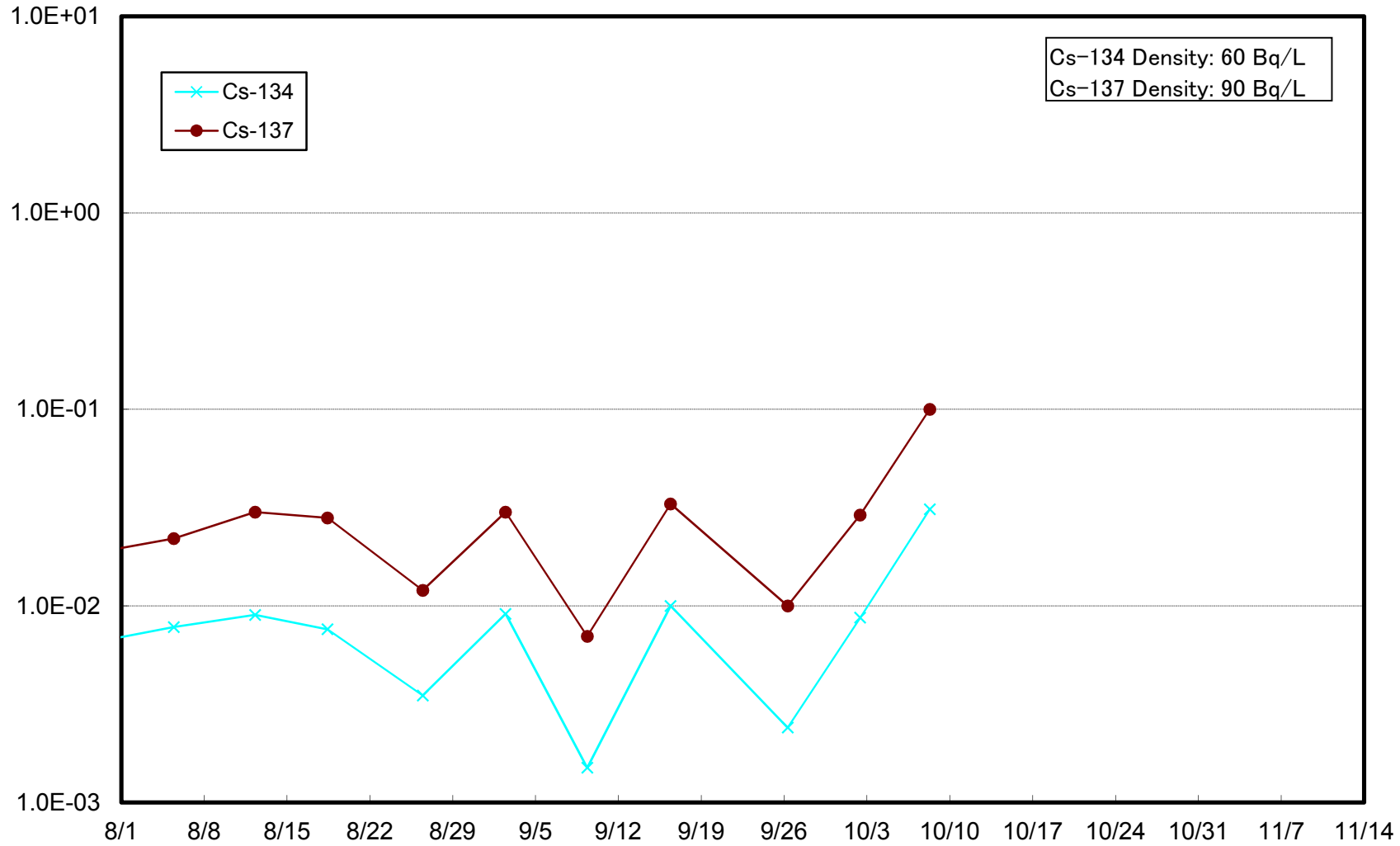
Radioactivity Density of the Seawater at 15km Offshore of Fukushima Daiichi NPS (T-5) Upper Layer (Bq/L)



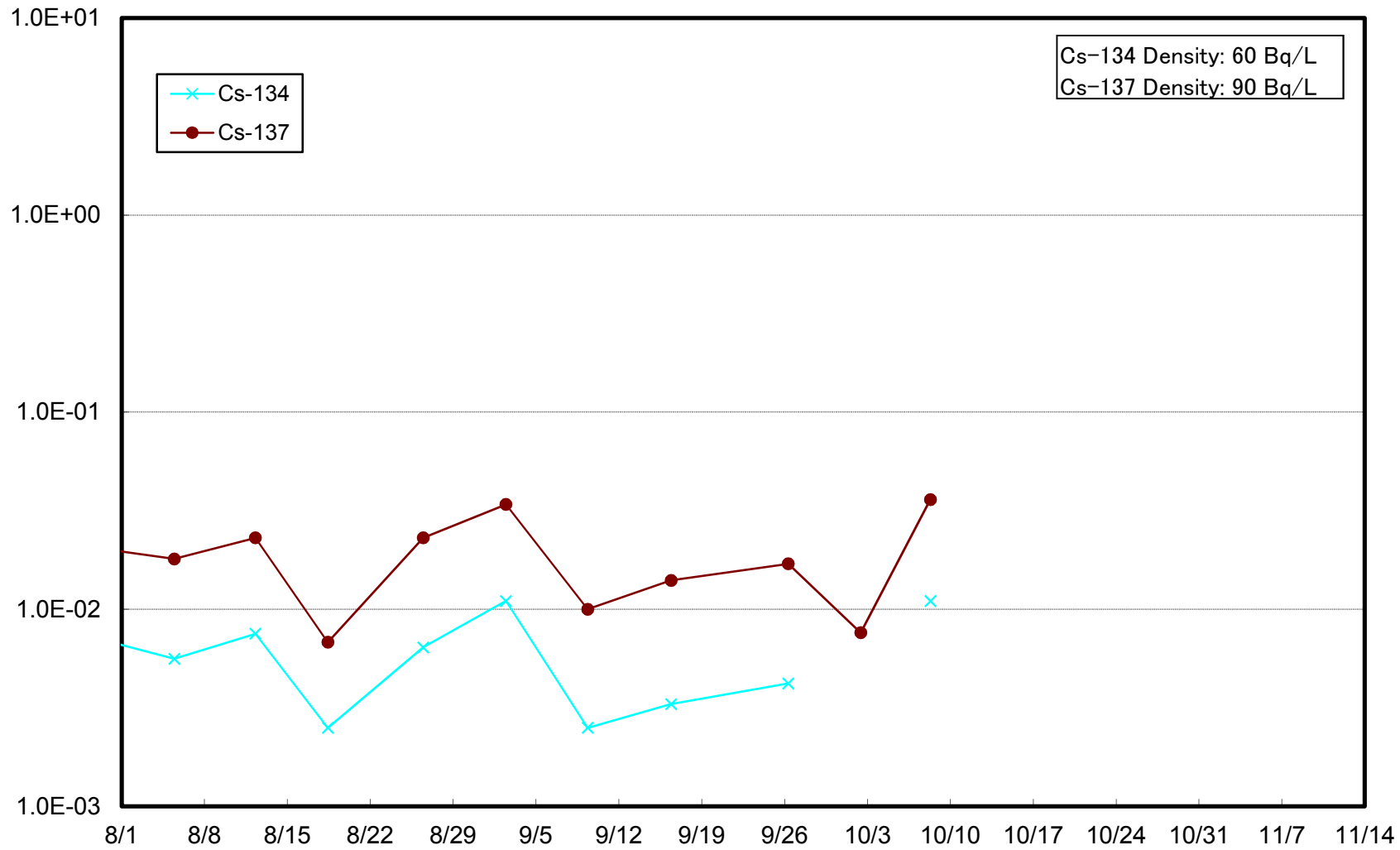
Radioactivity Density of the Seawater at 15km Offshore of Fukushima Daiichi NPS (T-5) Lower Layer (Bq/L)



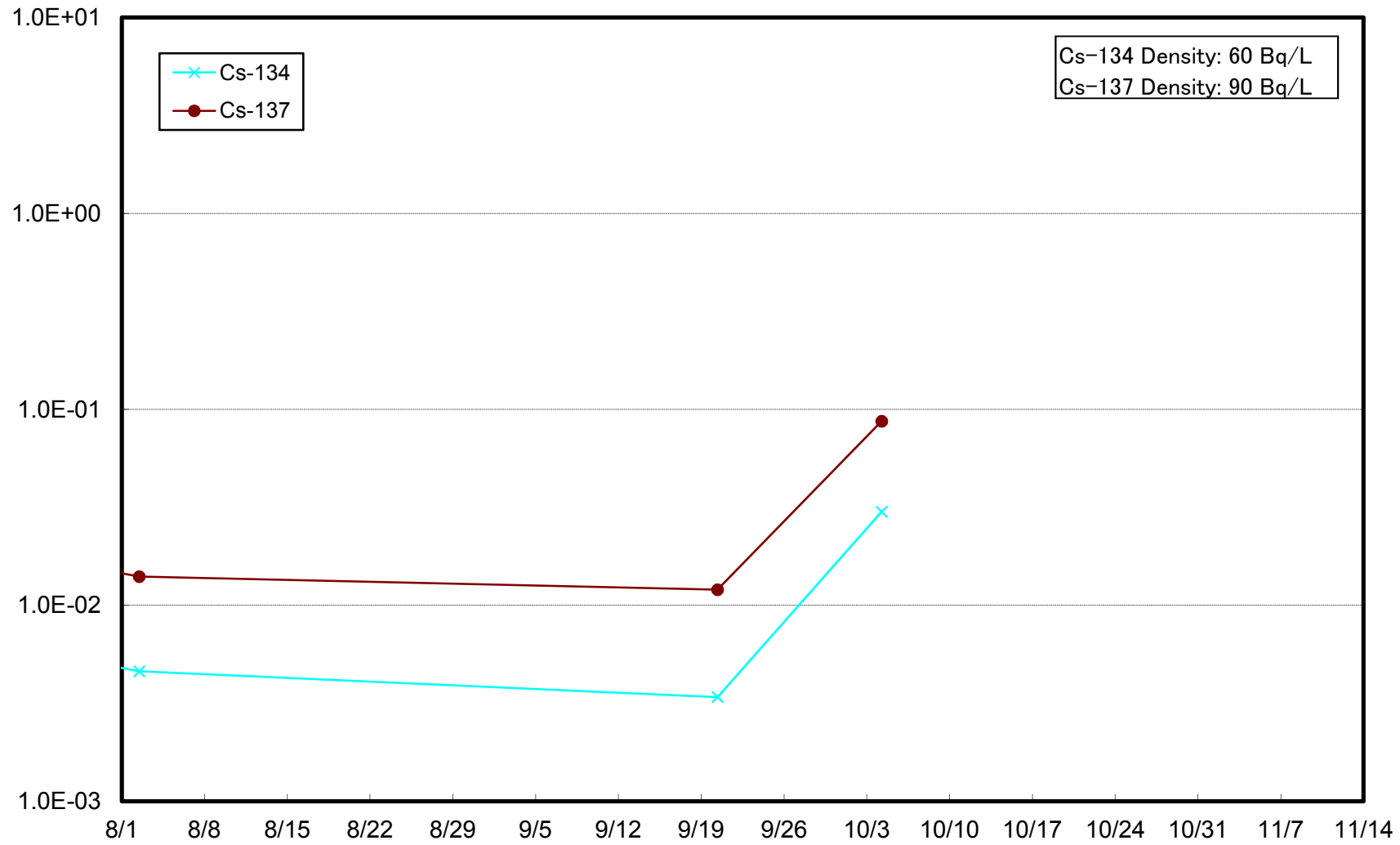
Radioactivity Density of the Seawater at 3km Offshore of Iwasawa Shore (T-11) Upper Layer (Bq/L)



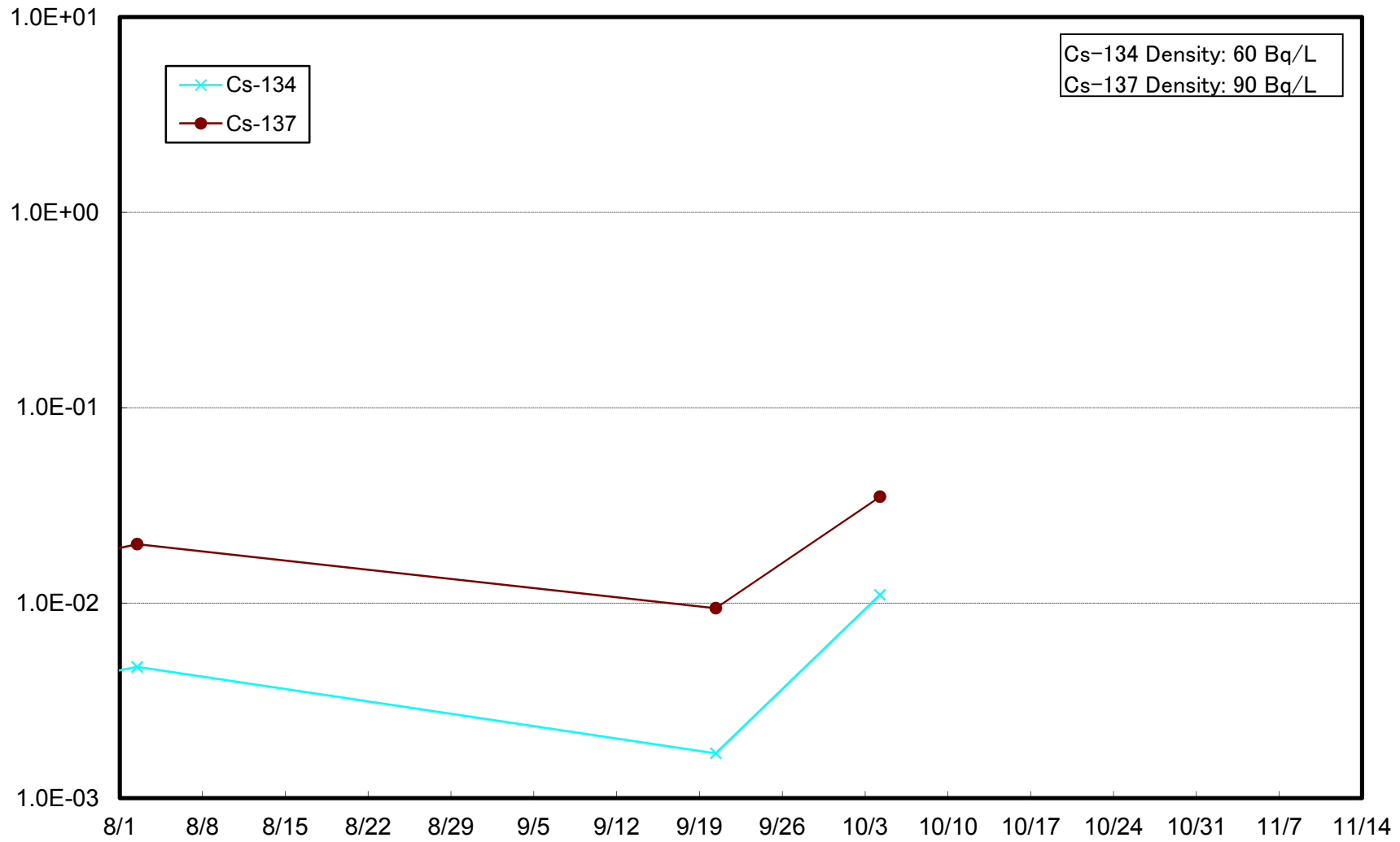
Radioactivity Density of the Seawater at 3km Offshore of Iwasawa Shore (T-11) Lower Layer (Bq/L)



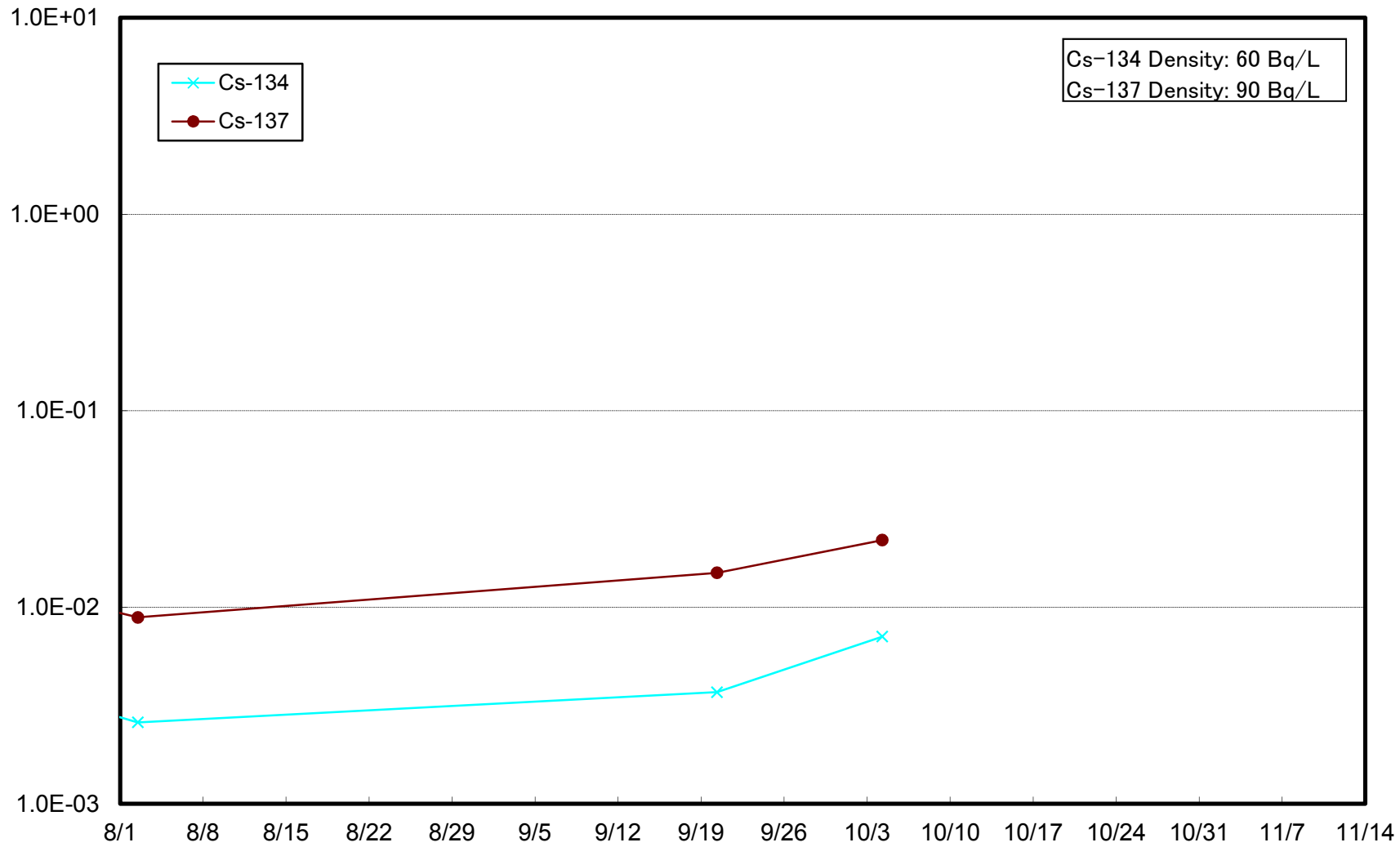
Radioactivity Density of the Seawater at 3km Offshore of North of Iwaki City(T-12) Upper Layer (Bq/L)



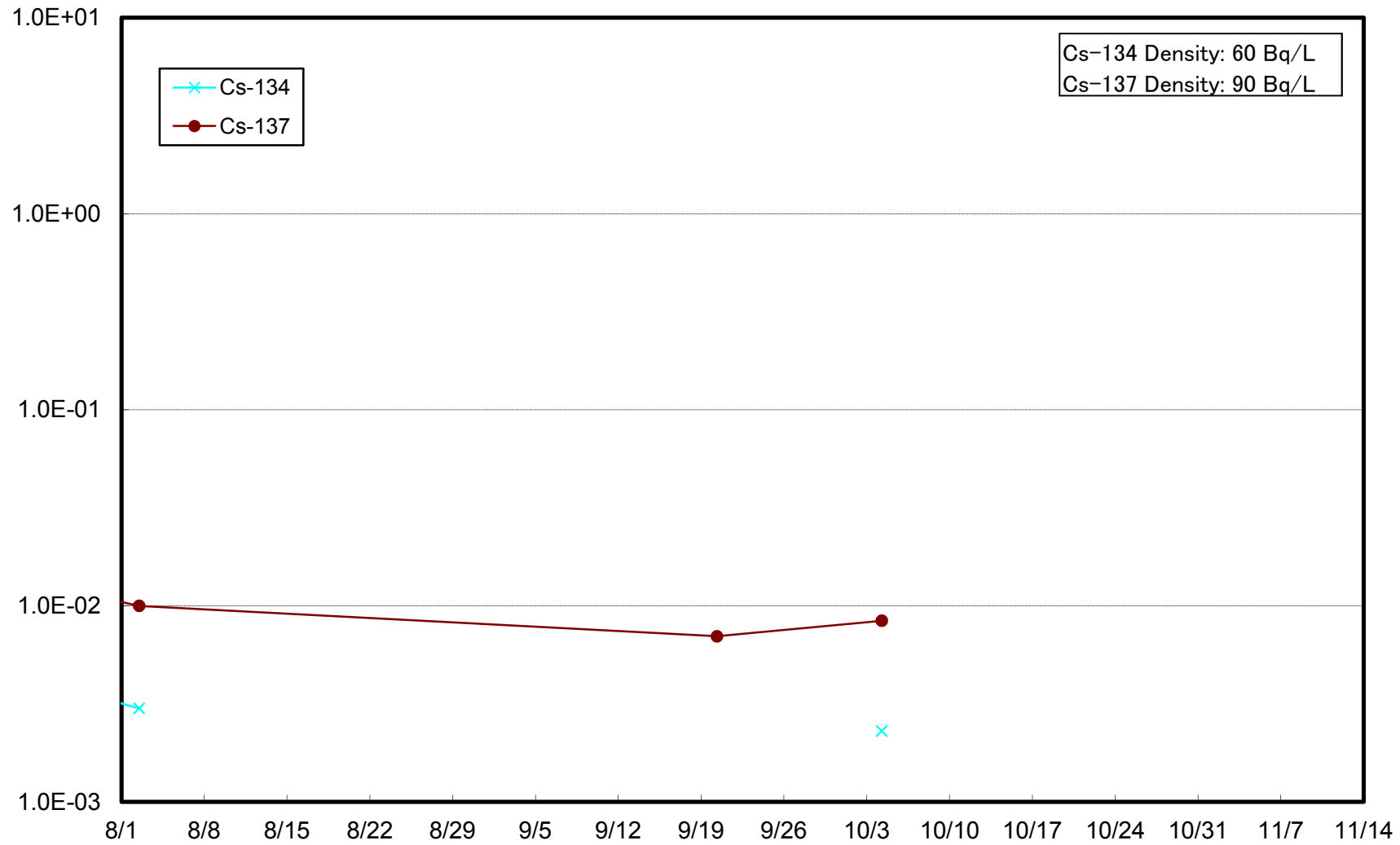
Radioactivity Density of the Seawater at 3km Offshore of North of Iwaki City(T-12) Lower Layer (Bq/L)



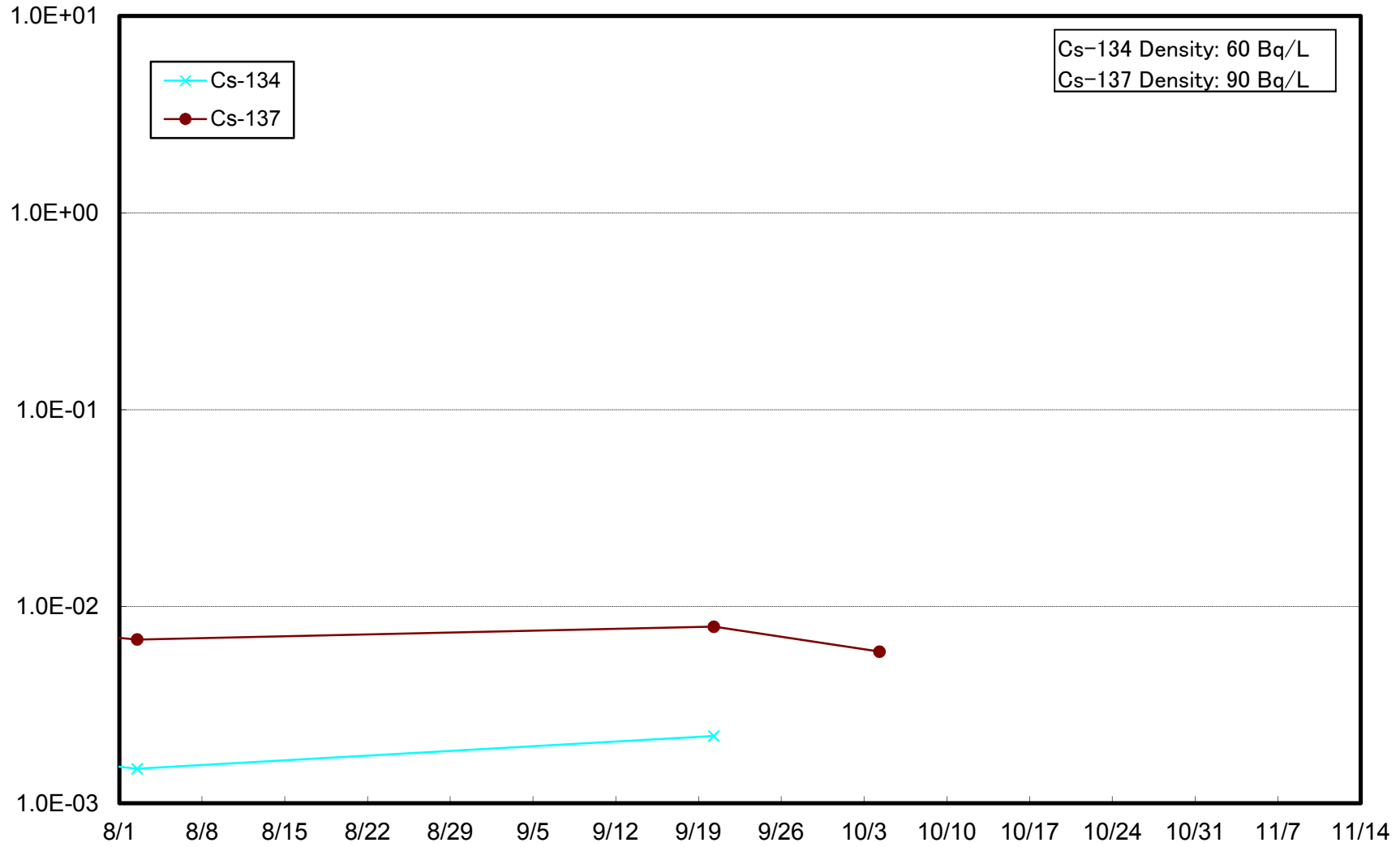
Radioactivity Density of the Seawater at 1km Offshore of Natsui River (T-17-1) Upper Layer (Bq/L)



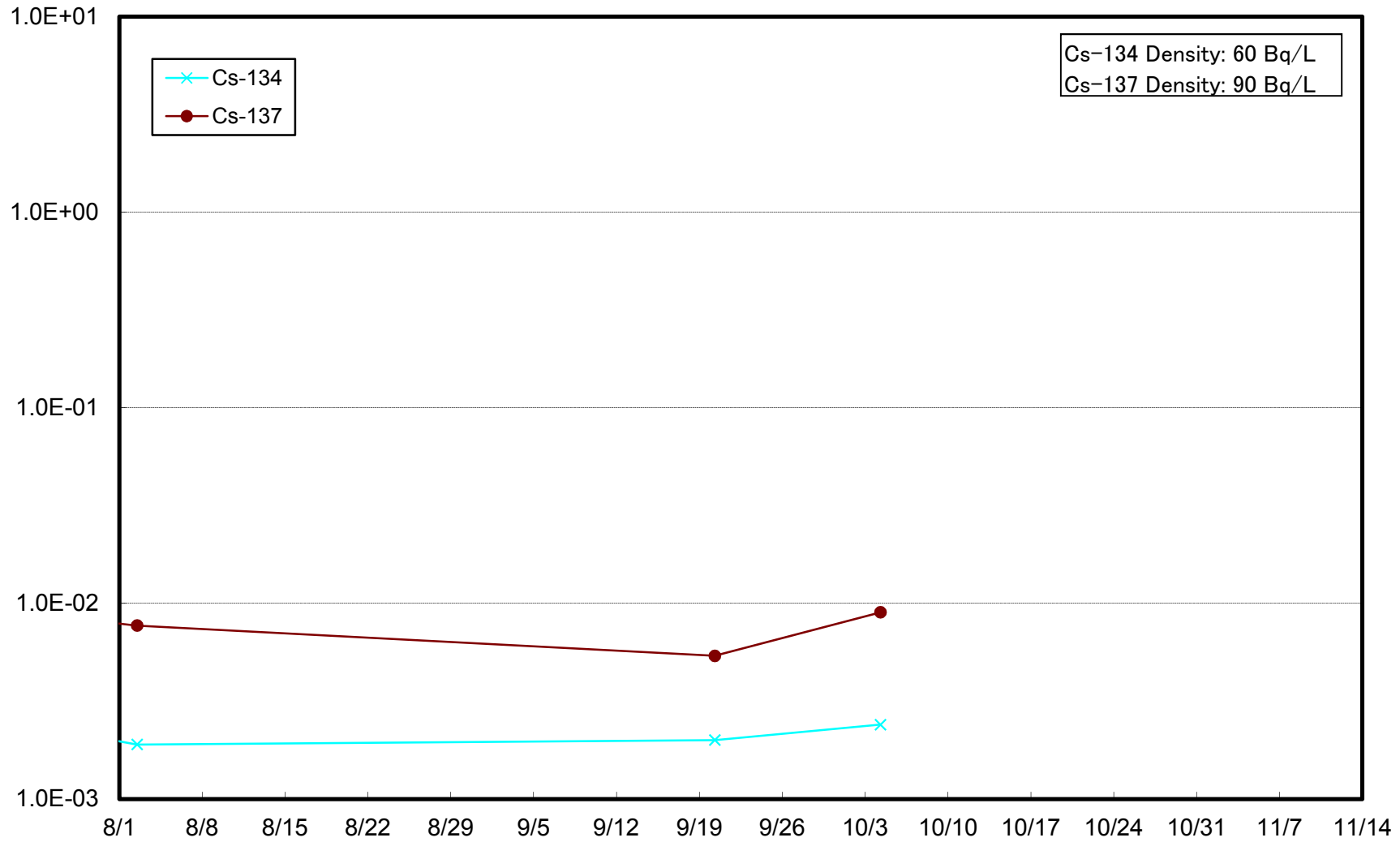
Radioactivity Density of the Seawater at 1km Offshore of Natsui River (T-17-1) Lower Layer (Bq/L)



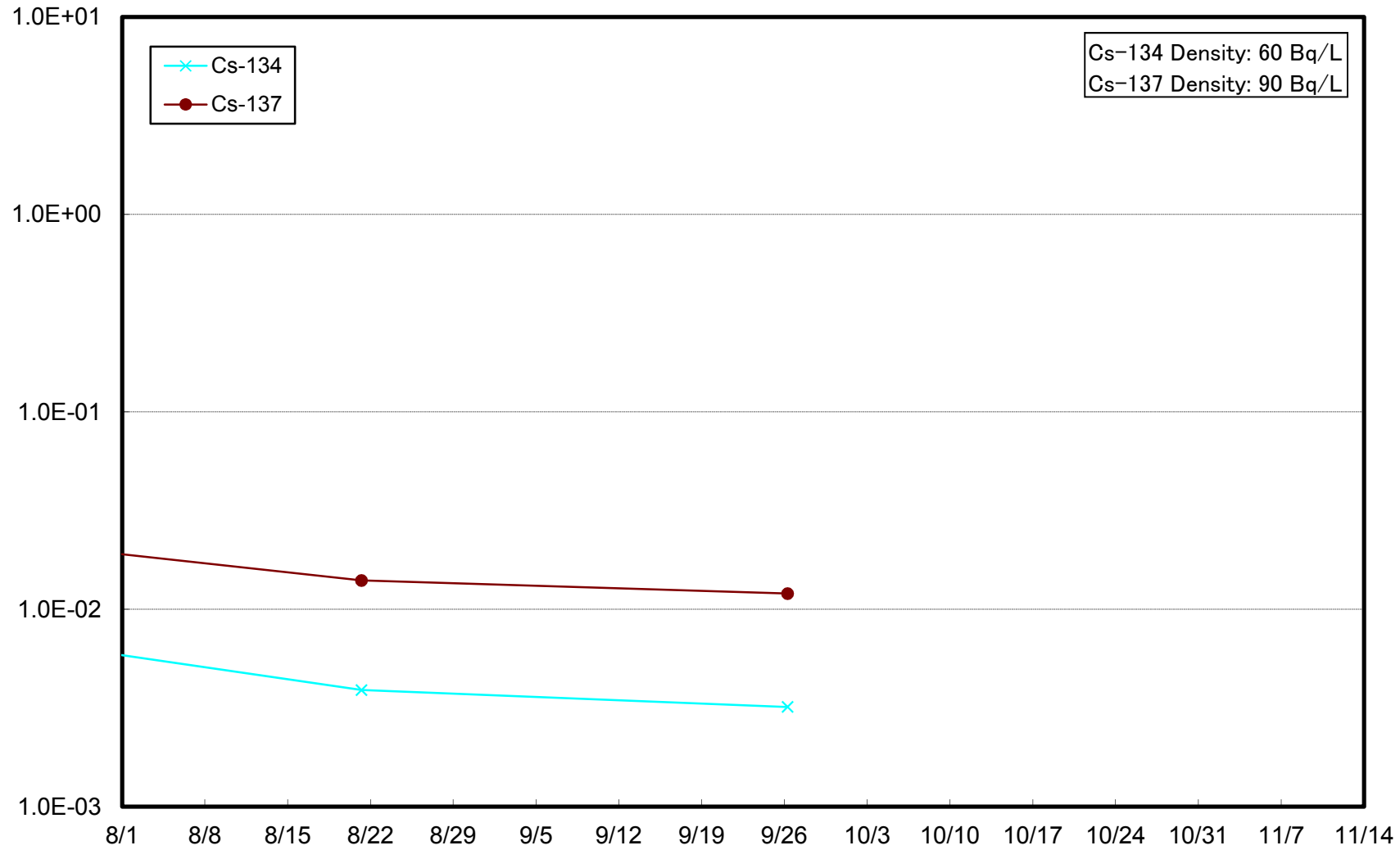
Radioactivity Density of the Seawater at 3km Offshore of Toyoma (T-20) Upper Layer (Bq/L)



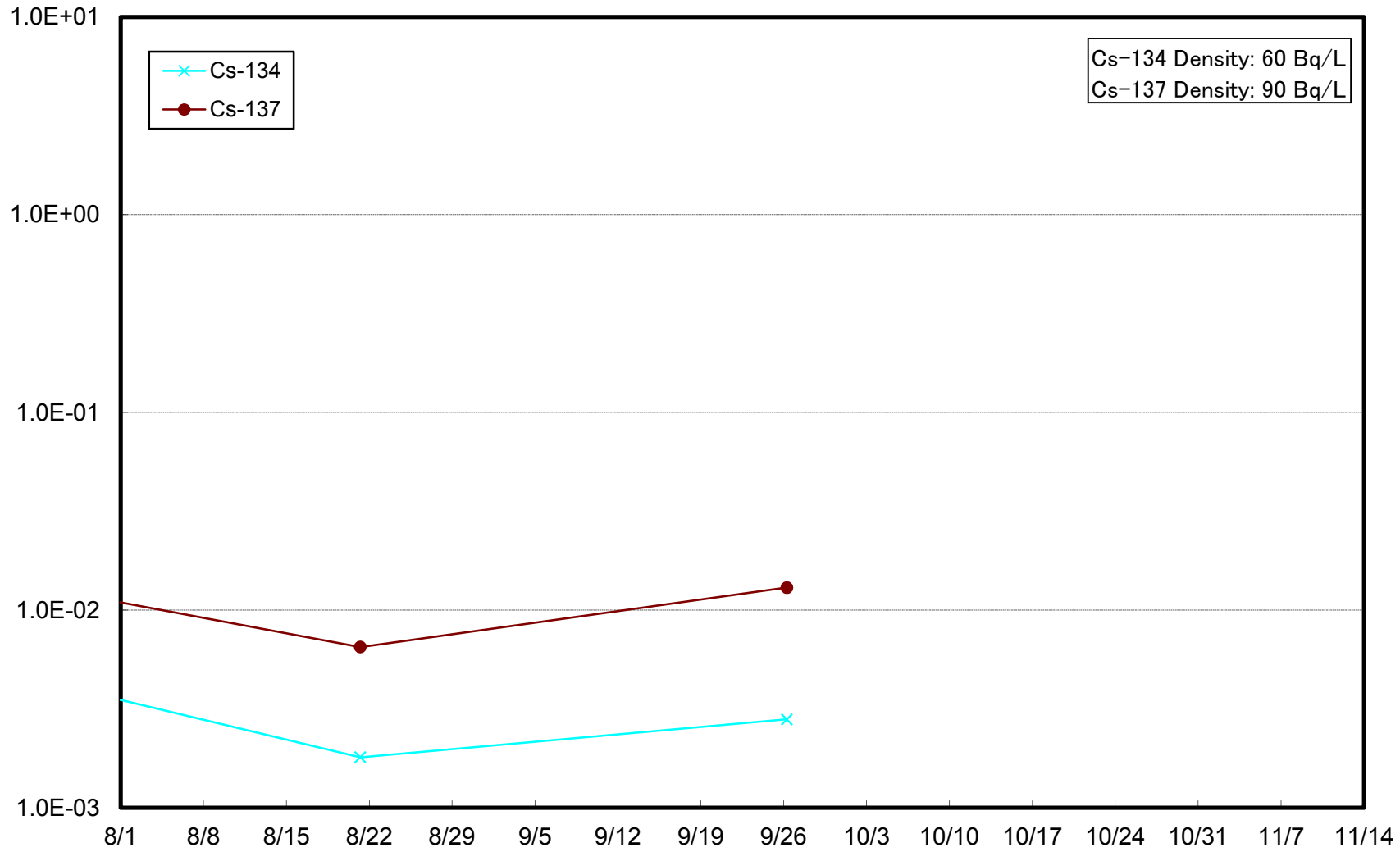
Radioactivity Density of the Seawater at 3km Offshore of Toyoma (T-20) Upper Layer (Bq/L)



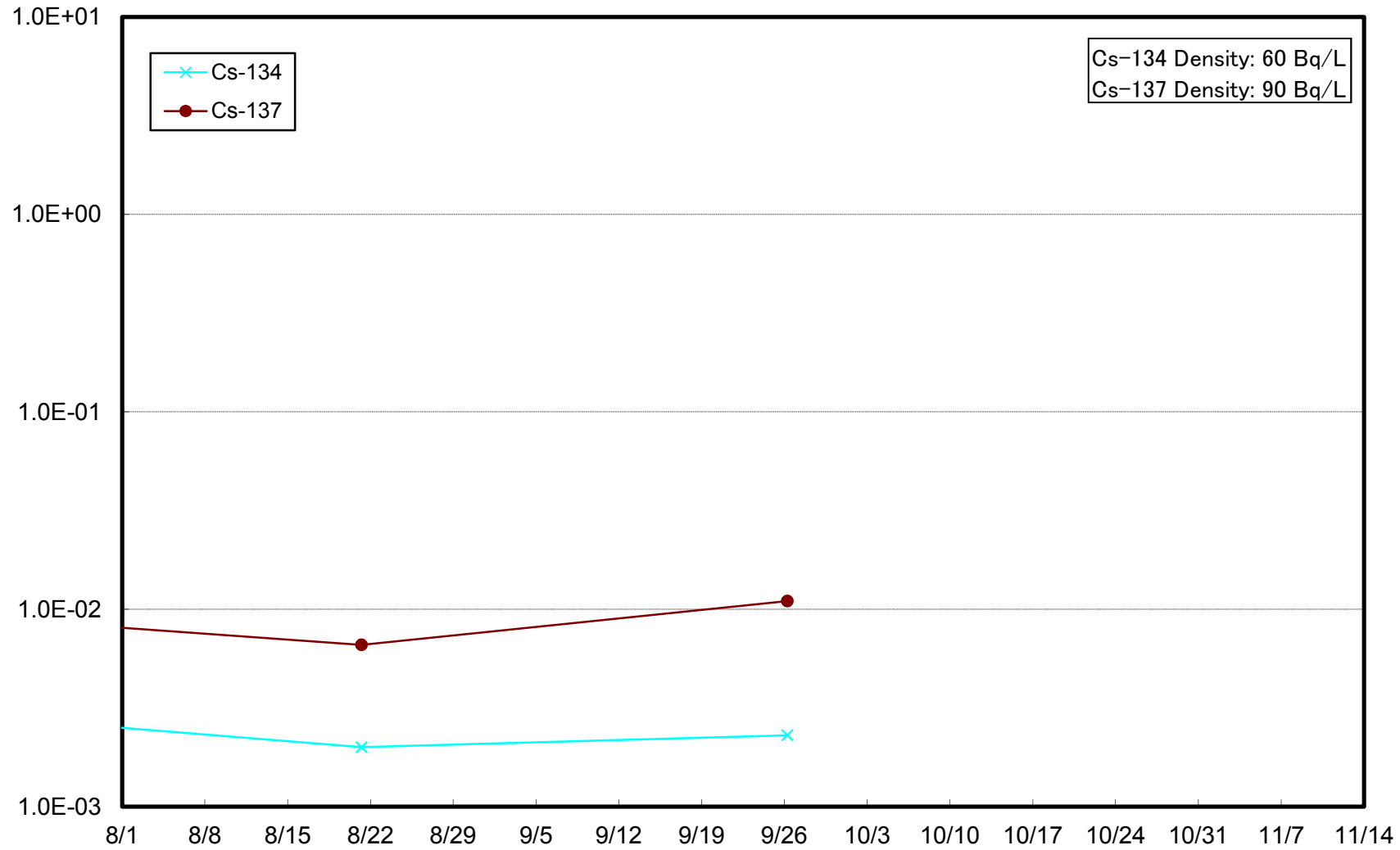
Radioactivity Density of the Seawater at 1km Offshore of Ohta River (T-S1) Upper Layer (Bq/L)



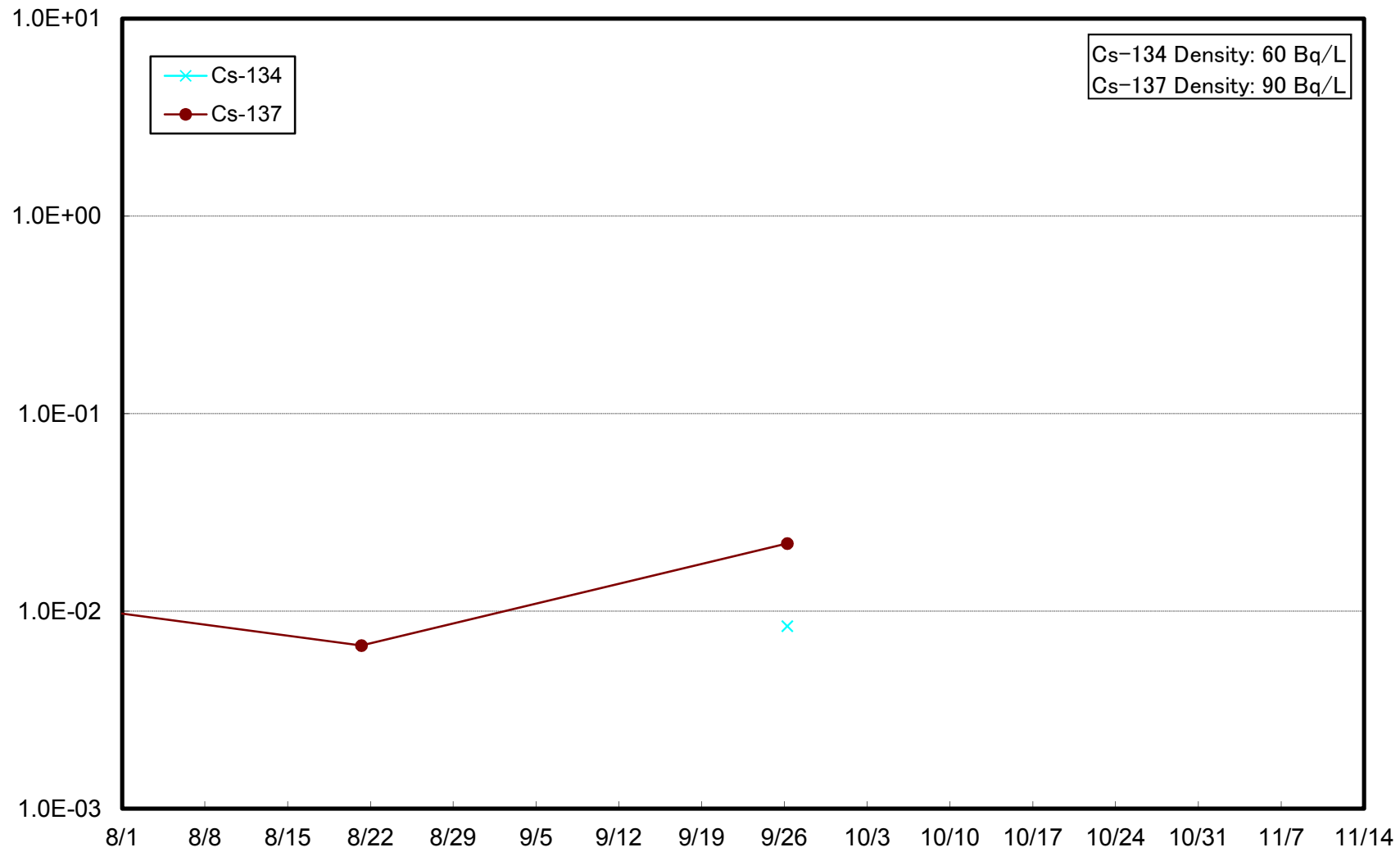
Radioactivity Density of the Seawater at 1km Offshore of Ohta River (T-S1) Lower Layer (Bq/L)



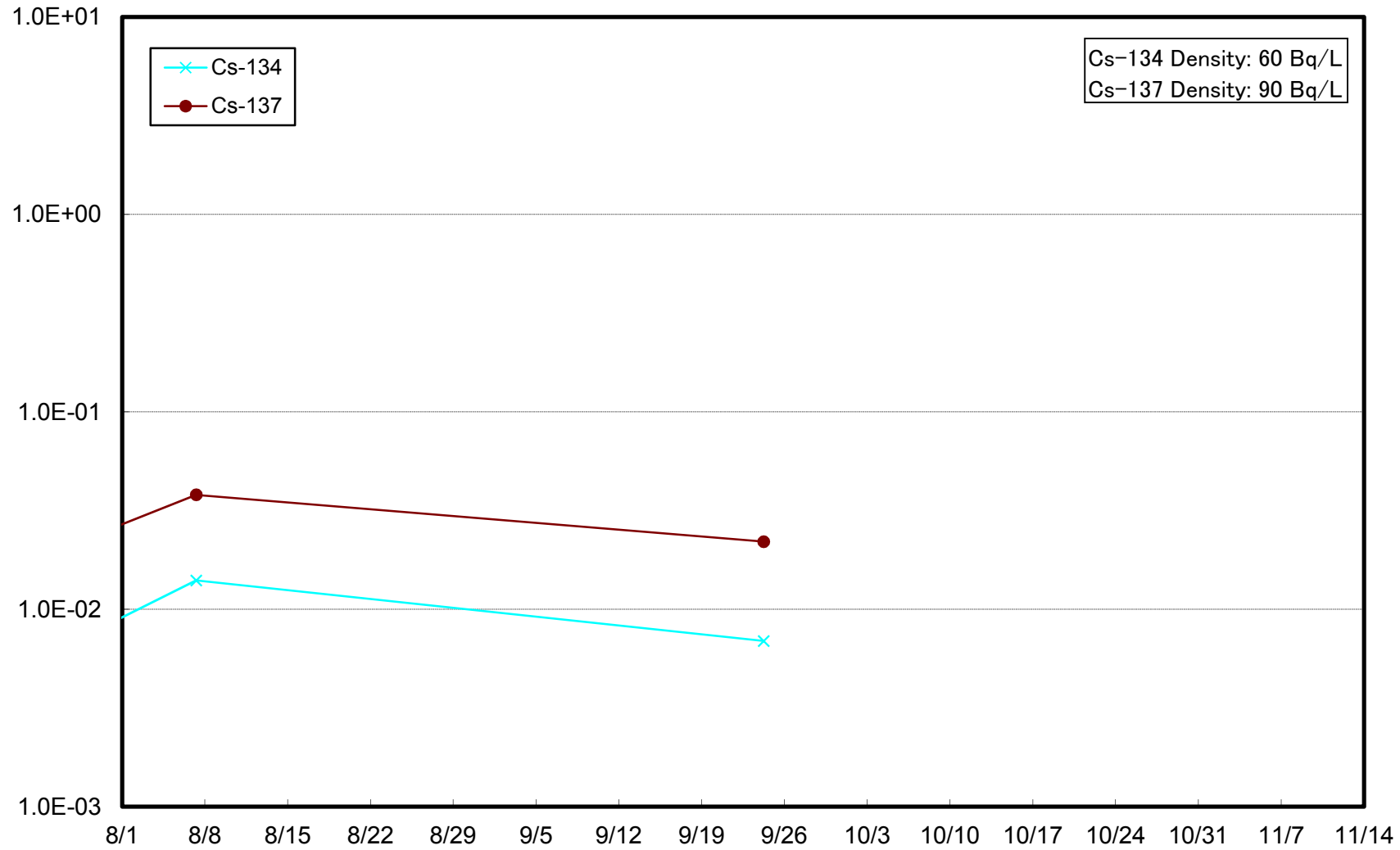
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-S2) Upper Layer (Bq/L)



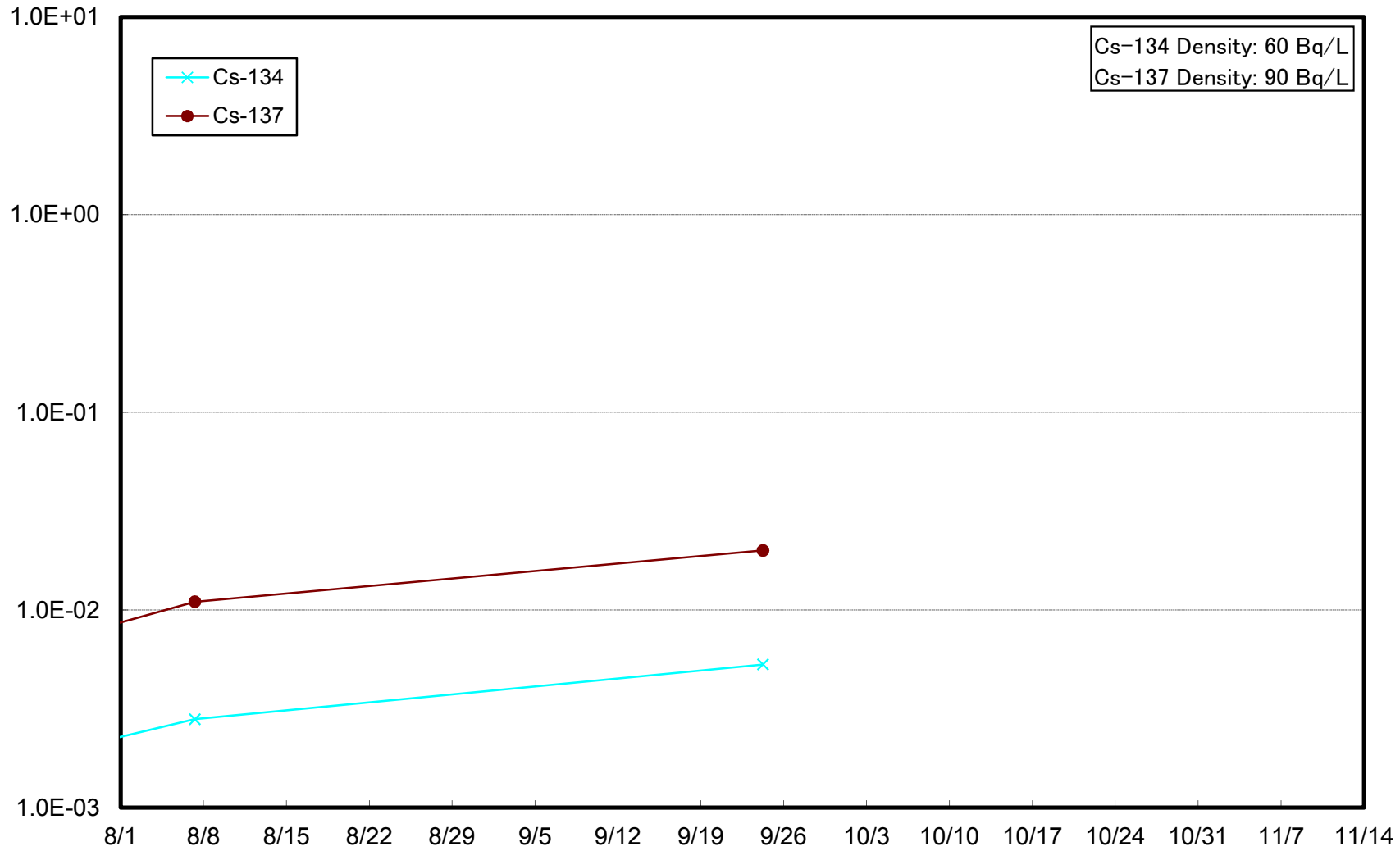
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-S2) Lower Layer (Bq/L)



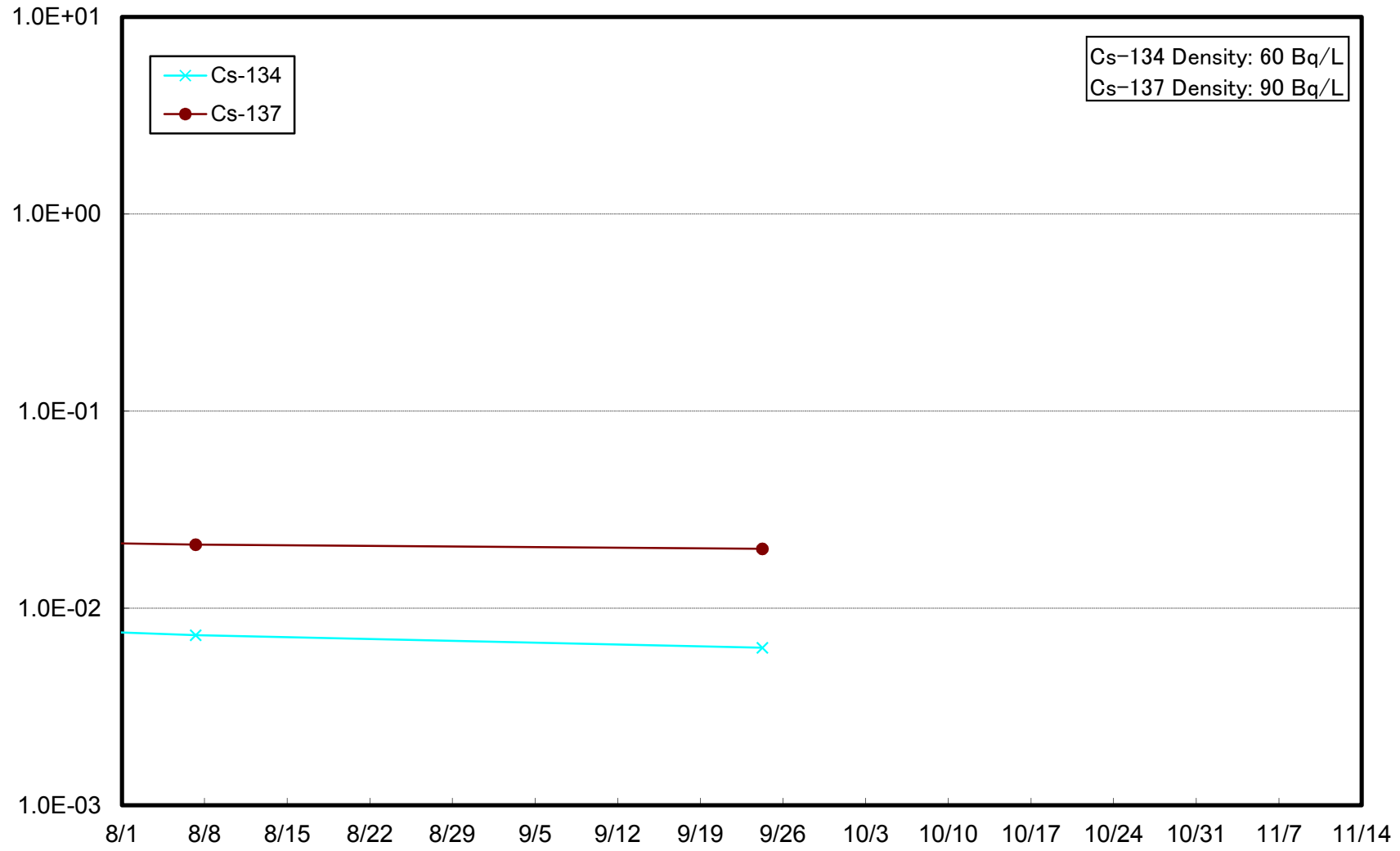
Radioactivity Density of the Seawater Around 3km Offshore of Ukedo River (T-S3) Upper Layer (Bq/L)



Radioactivity Density of the Seawater Around 3km Offshore of Ukedo River (T-S3) Lower Layer (Bq/L)



Radioactivity Density of the Seawater Around 3km Offshore of Fukushima Daiichi NPS (T-S4) Upper Layer (Bq/L)



Radioactivity Density of the Seawater Around 3km Offshore of Fukushima Daiichi NPS (T-S4) Lower Layer (Bq/L)

