# Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 1/2 >

(Data summarized on August 1)

| Place of Sampling (Place No.) | Offshore of Minamisanriku (T-MG0) | | | | | | Ishinomaki Bay (T-MG1) | | | | | | 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 | | Middle Layer | | Lower Layer | | Upper Layer | | Middle Layer | | Lower Layer | | |
| Time of Sampling | Jun 18, 2013 1:35 PM | | Jun 18, 2013 2:14 PM | | Jun 18, 2013 1:55 PM | | Jun 18, 2013 10:16 AM | | Jun 18, 2013 10:12 AM | | Jun 18, 2013 10:09 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 | - | ND | - | ND | - | 0.0055 | 0.00 | 0.0052 | 0.00 | 0.0019 | 0.00 | 60 |
| Cs-137 (Approx. 30 years) | 0.0021 | 0.00 | 0.0018 | 0.00 | 0.0026 | 0.00 | 0.011 | 0.00 | 0.010 | 0.00 | 0.0063 | 0.00 | 90 |

| Place of Sampling (Place No.) | Offshore of Kinkasan East (T-MG2) | | | | | | Offshore of Kinkasan South (T-MG3) | | | | | | 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 | | Middle Layer | | Lower Layer | | Upper Layer | | Middle Layer | | Lower Layer | | |
| Time of Sampling | Jun 18, 2013 7:39 AM | | Jun 18, 2013 8:06 AM | | Jun 18, 2013 7:47 AM | | Jun 18, 2013 8:38 AM | | Jun 18, 2013 9:00 AM | | Jun 18, 2013 8:42 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) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 60 |
| Cs-137 (Approx. 30 years) | 0.0023 | 0.00 | 0.0016 | 0.00 | 0.0025 | 0.00 | 0.0019 | 0.00 | 0.0015 | 0.00 | 0.0026 | 0.00 | 90 |

* The density specified by the Reactor Regulation is converted from Bq/cm$^3$ 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.
  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. (Since the announcement on June 15, 2012.)
* Analyzed by: Japan Chemical Analysis Center

# Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 2/2 >

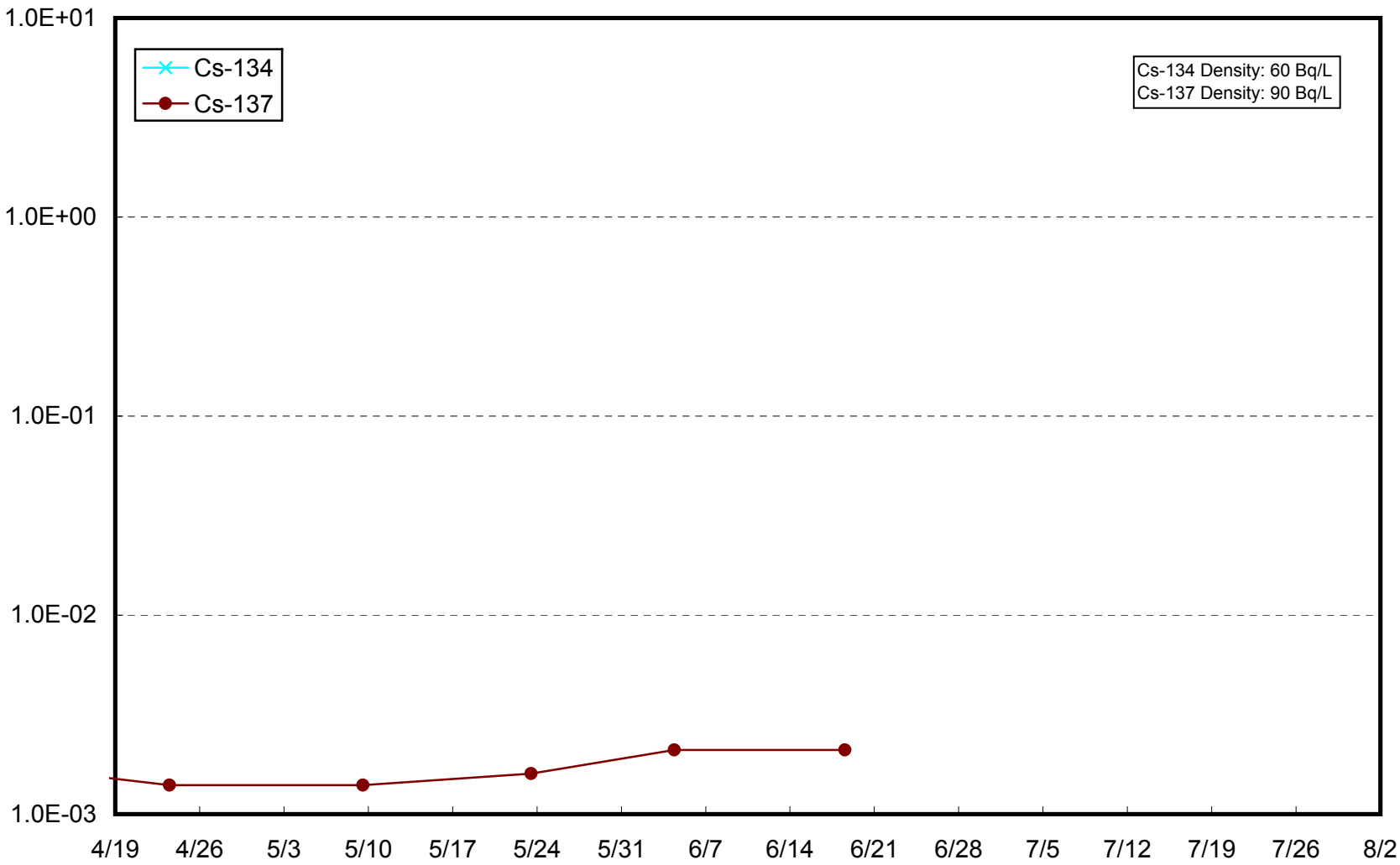
(Data summarized on August 1)

| Place of Sampling (Place No.) | Offshore of Shichigahama (T-MG4) | | | | | | Central Area of Sendai Bay (T-MG5) | | | | | | 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 | | Middle Layer | | Lower Layer | | Upper Layer | | Middle Layer | | Lower Layer | | |
| Time of Sampling | Jun 18, 2013 9:04 AM | | Jun 18, 2013 9:10 AM | | Jun 18, 2013 9:08 AM | | Jun 18, 2013 8:20 AM | | Jun 18, 2013 8:28 AM | | Jun 18, 2013 8:25 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 | 0.0037 | 0.00 | 0.0044 | 0.00 | 0.0044 | 0.00 | 0.0033 | 0.00 | 0.0036 | 0.00 | 60 |
| Cs-137 (Approx. 30 years) | 0.010 | 0.00 | 0.0083 | 0.00 | 0.0095 | 0.00 | 0.0094 | 0.00 | 0.0071 | 0.00 | 0.0068 | 0.00 | 90 |

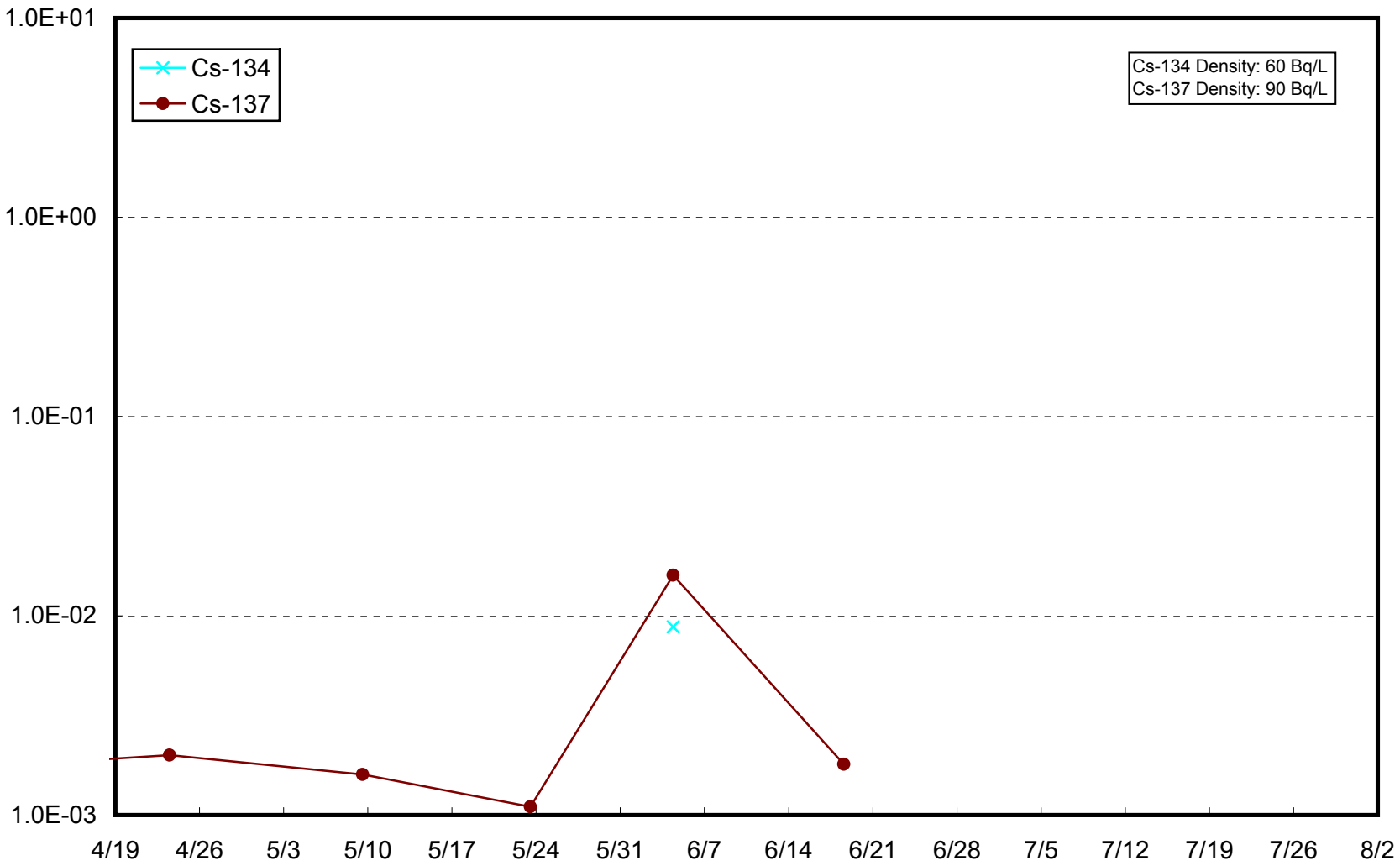
| Place of Sampling (Place No.) | Offshore of Abukuma River (T-MG6) | | | | | | | | | | | | ② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Upper Layer | | Middle Layer | | Lower Layer | | Upper Layer | | Middle Layer | | Lower Layer | | |
| Time of Sampling | Jun 18, 2013 10:03 AM | | Jun 18, 2013 10:08 AM | | Jun 18, 2013 10:06 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) | 0.0078 | 0.00 | 0.0041 | 0.00 | 0.012 | 0.00 | | | | | | | 60 |
| Cs-137 (Approx. 30 years) | 0.017 | 0.00 | 0.0099 | 0.00 | 0.025 | 0.00 | | | | | | | 90 |

* The density specified by the Reactor Regulation is converted from Bq/cm$^3$ to Bq/L.
* In the case of more than 2 nuclides, 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. (Since the announcement on June 15, 2012.)
* Analyzed by: Japan Chemical Analysis Center

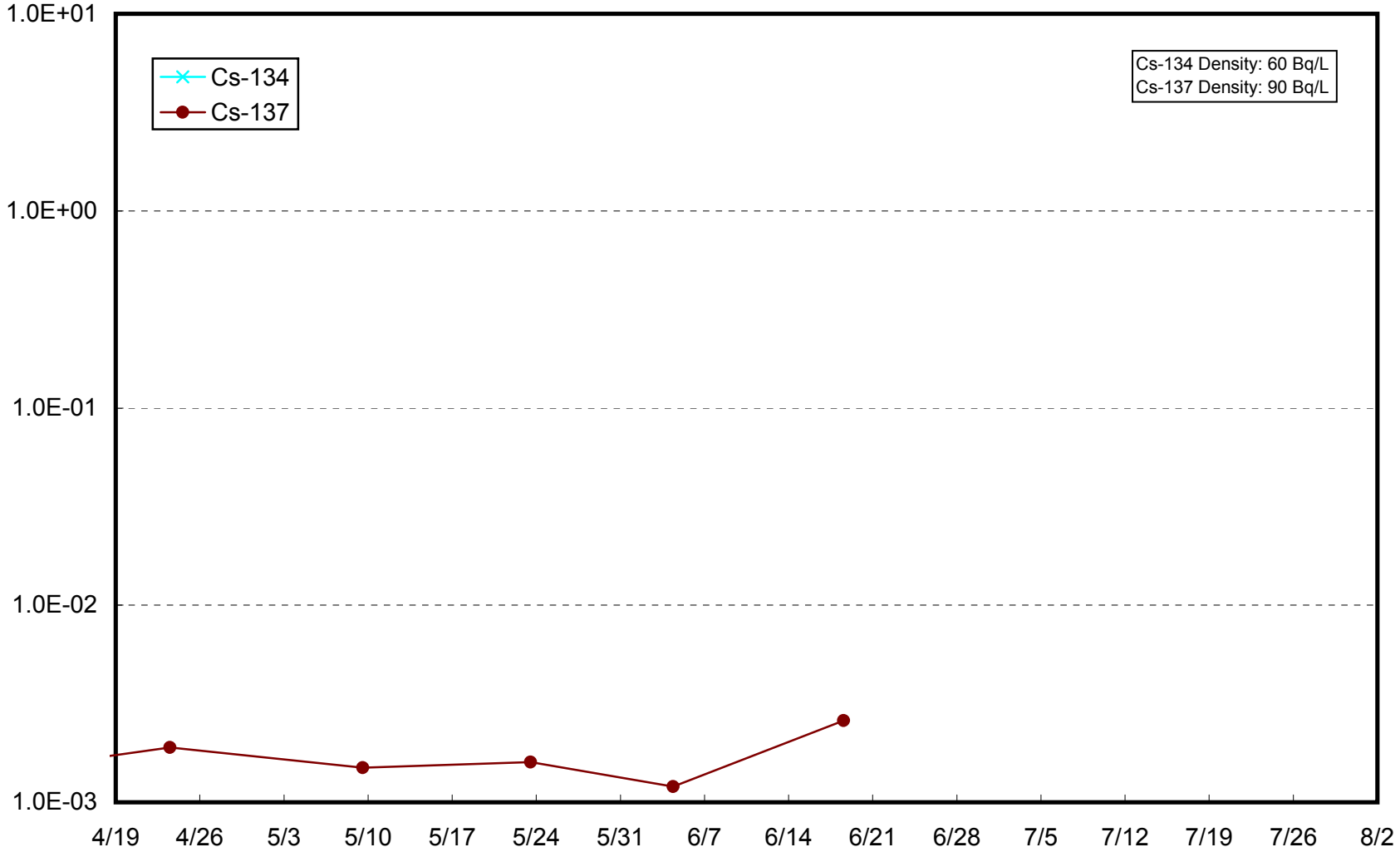
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Upper Layer (Bq/L)



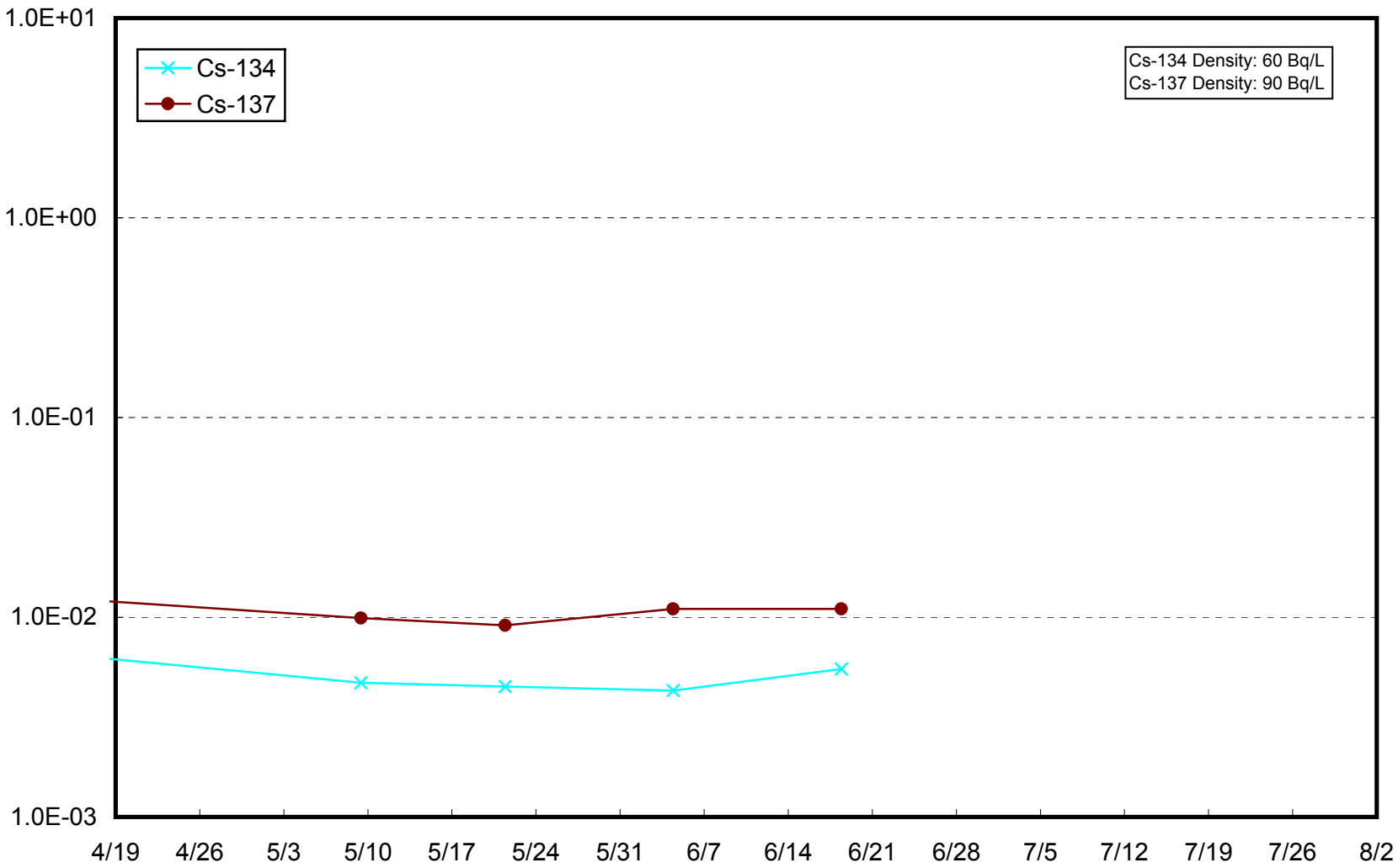
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Middle Layer (Bq/L)



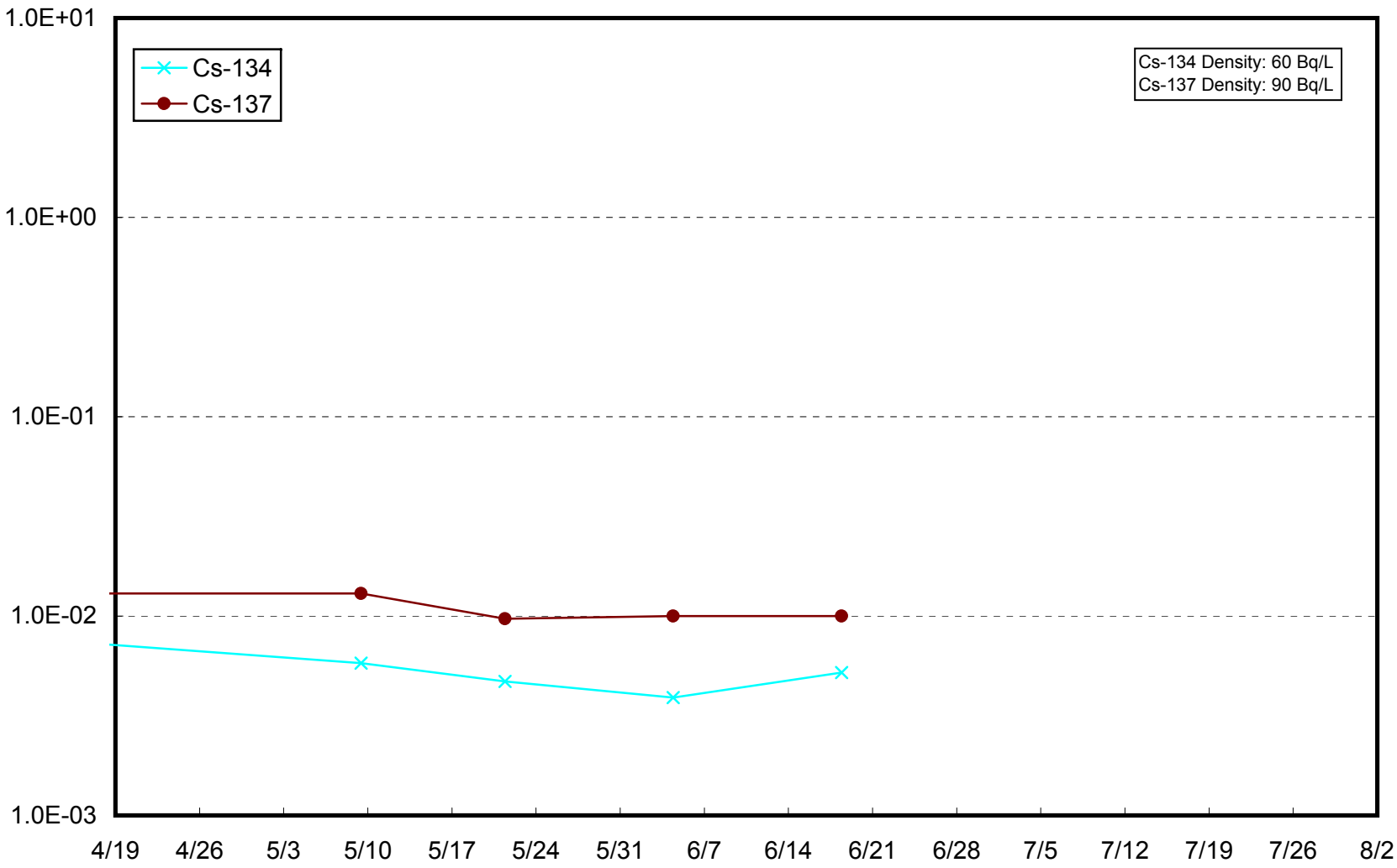
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Lower Layer (Bq/L)



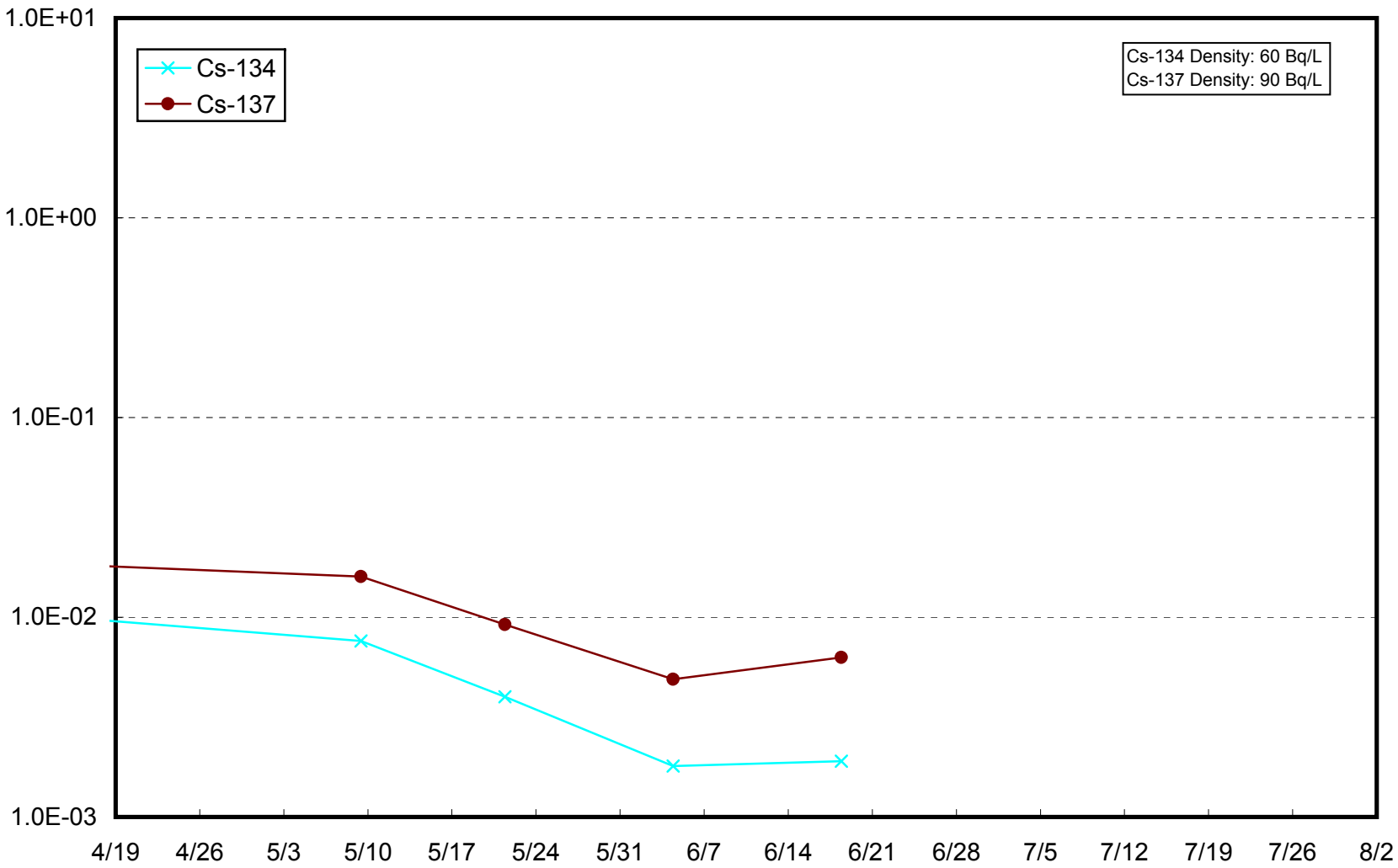
Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Upper Layer (Bq/L)



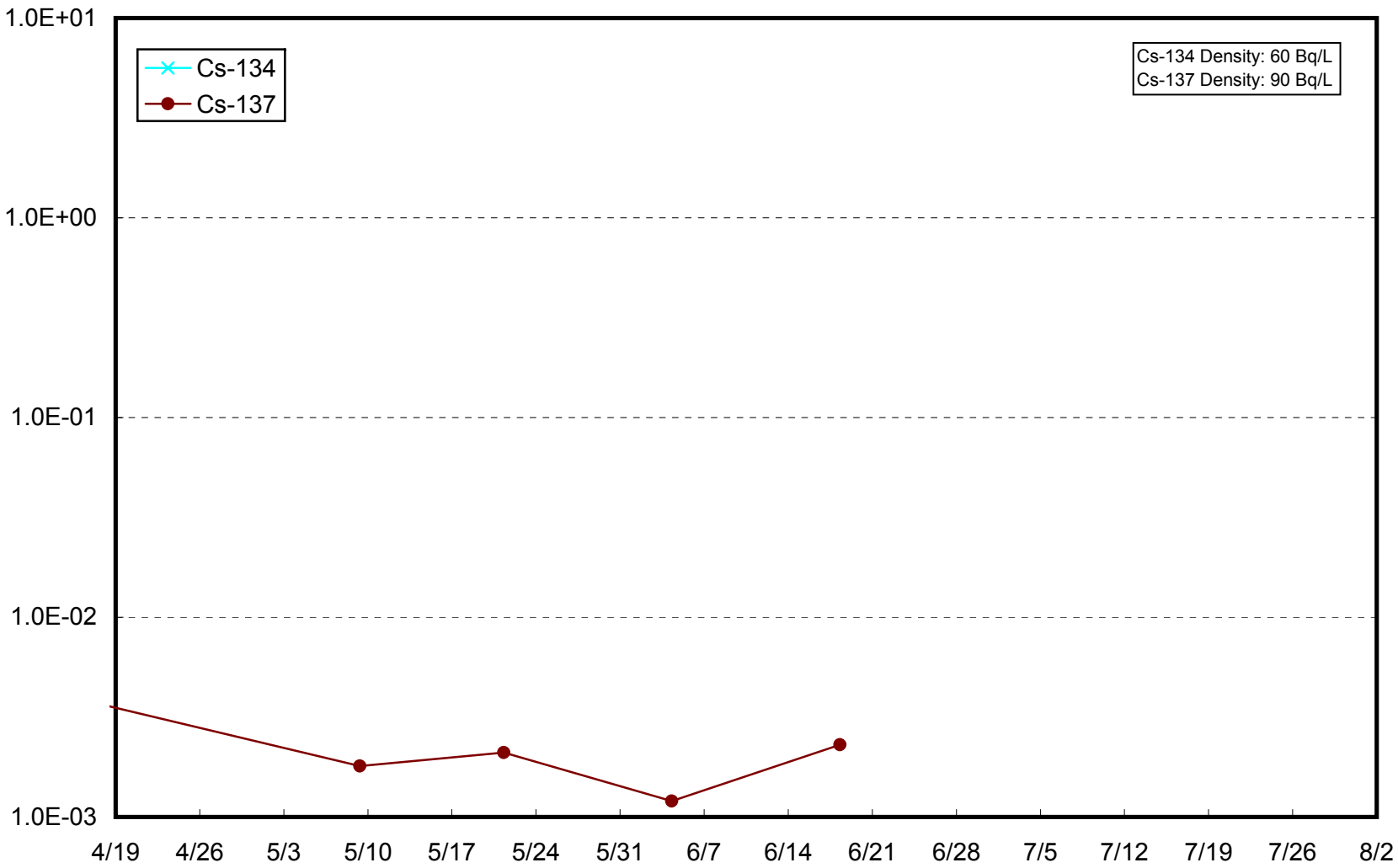
Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Middle Layer (Bq/L)



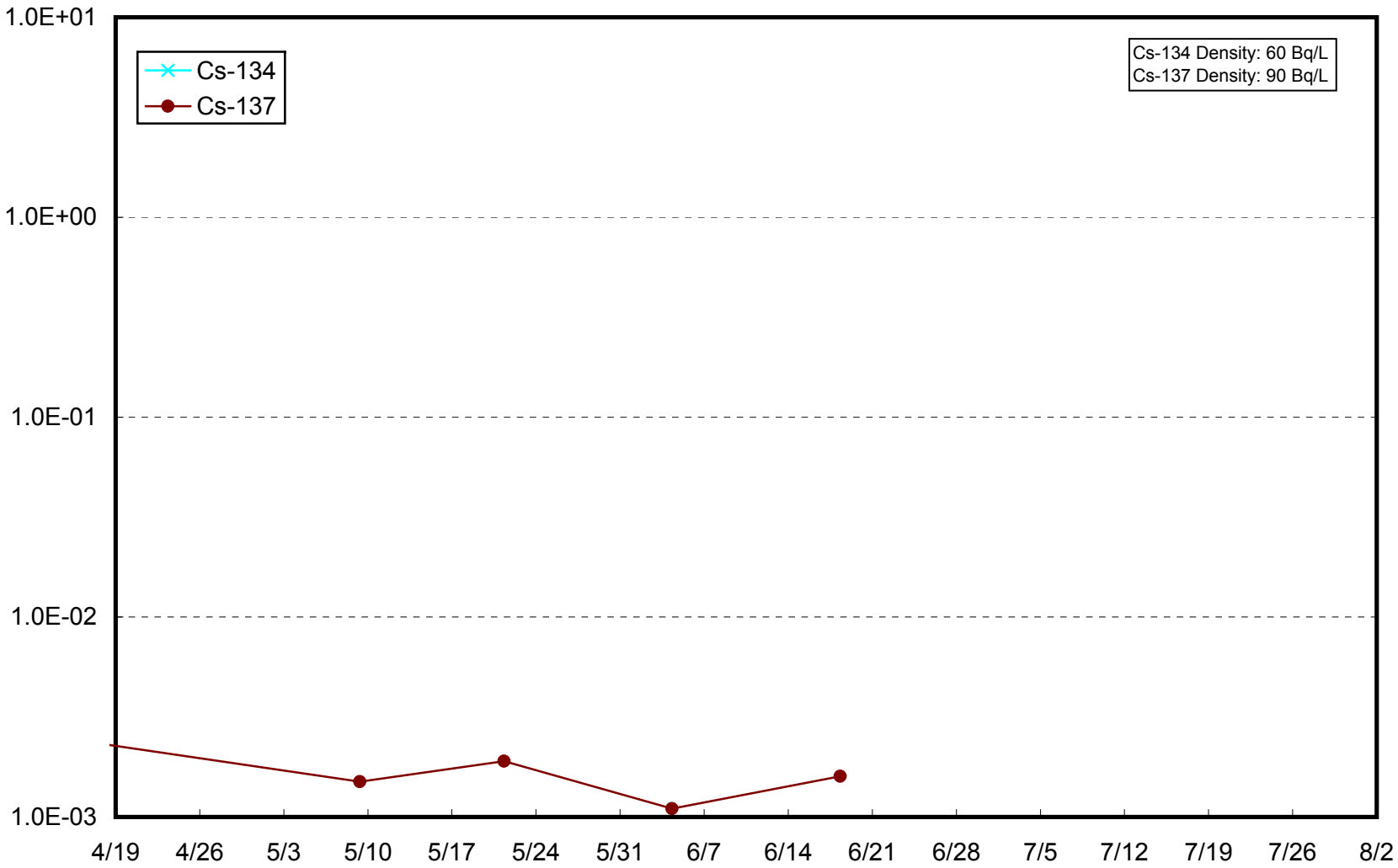
Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Lower Layer (Bq/L)



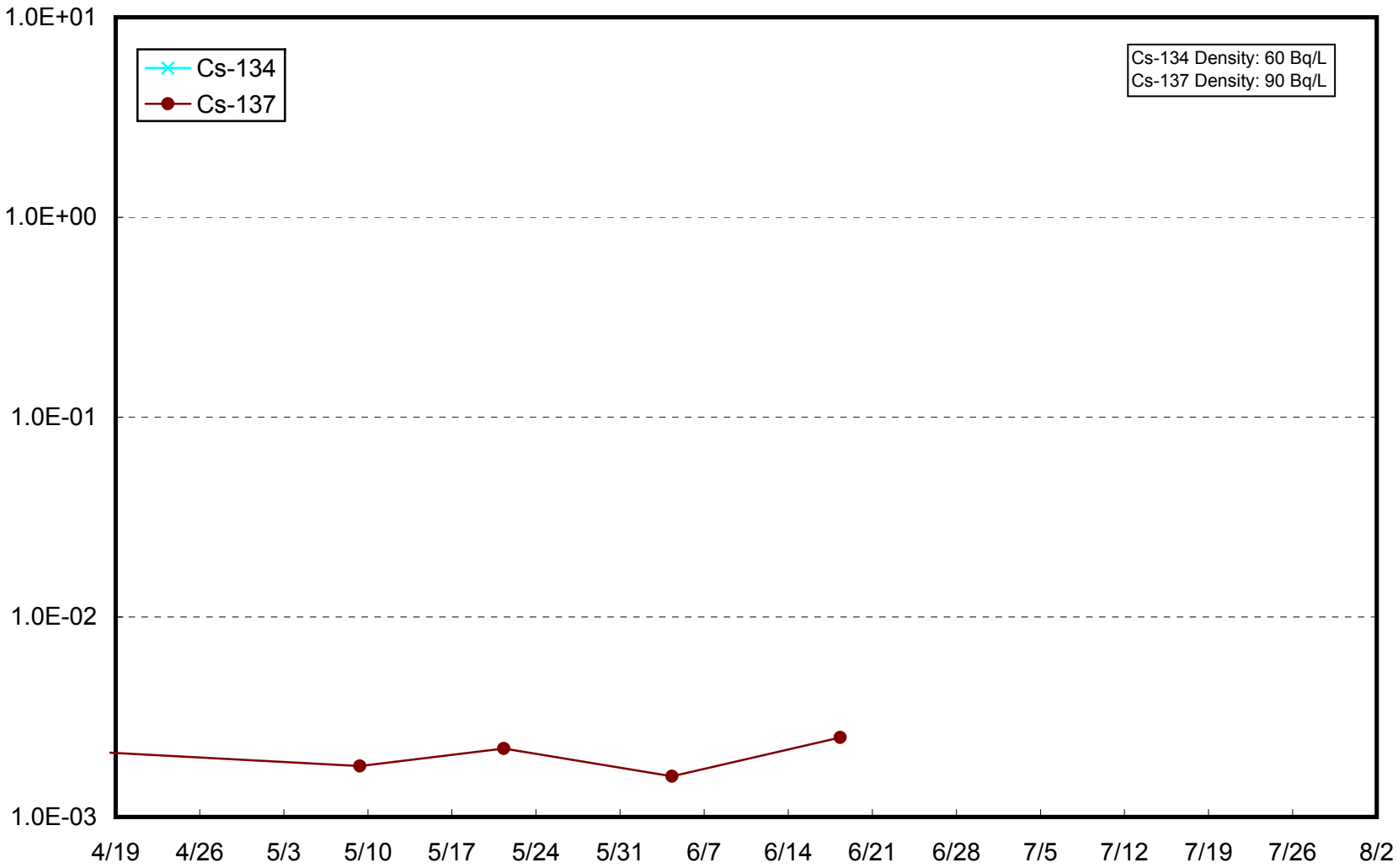
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Upper Layer (Bq/L)



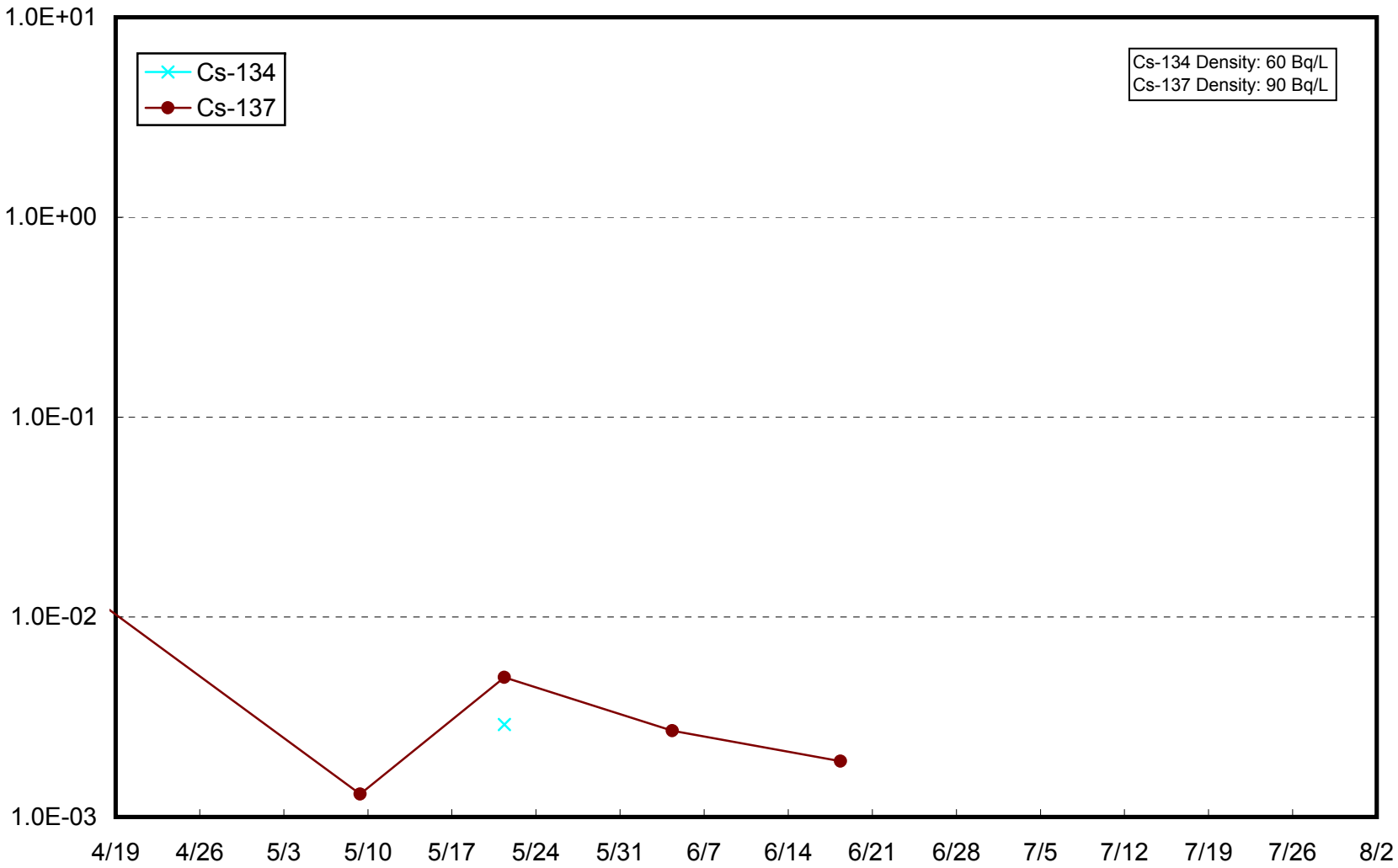
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Middle Layer (Bq/L)



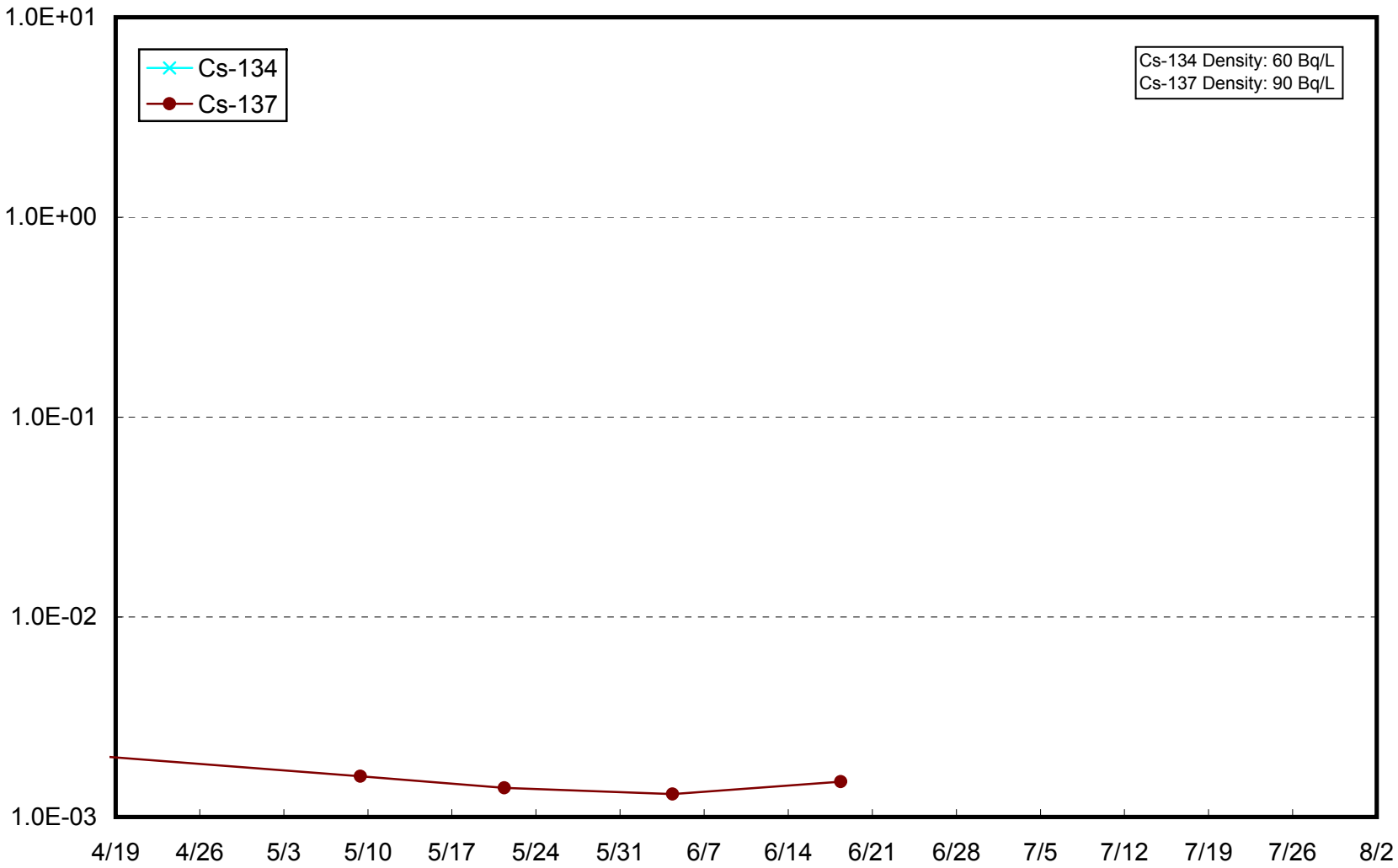
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Lower Layer (Bq/L)



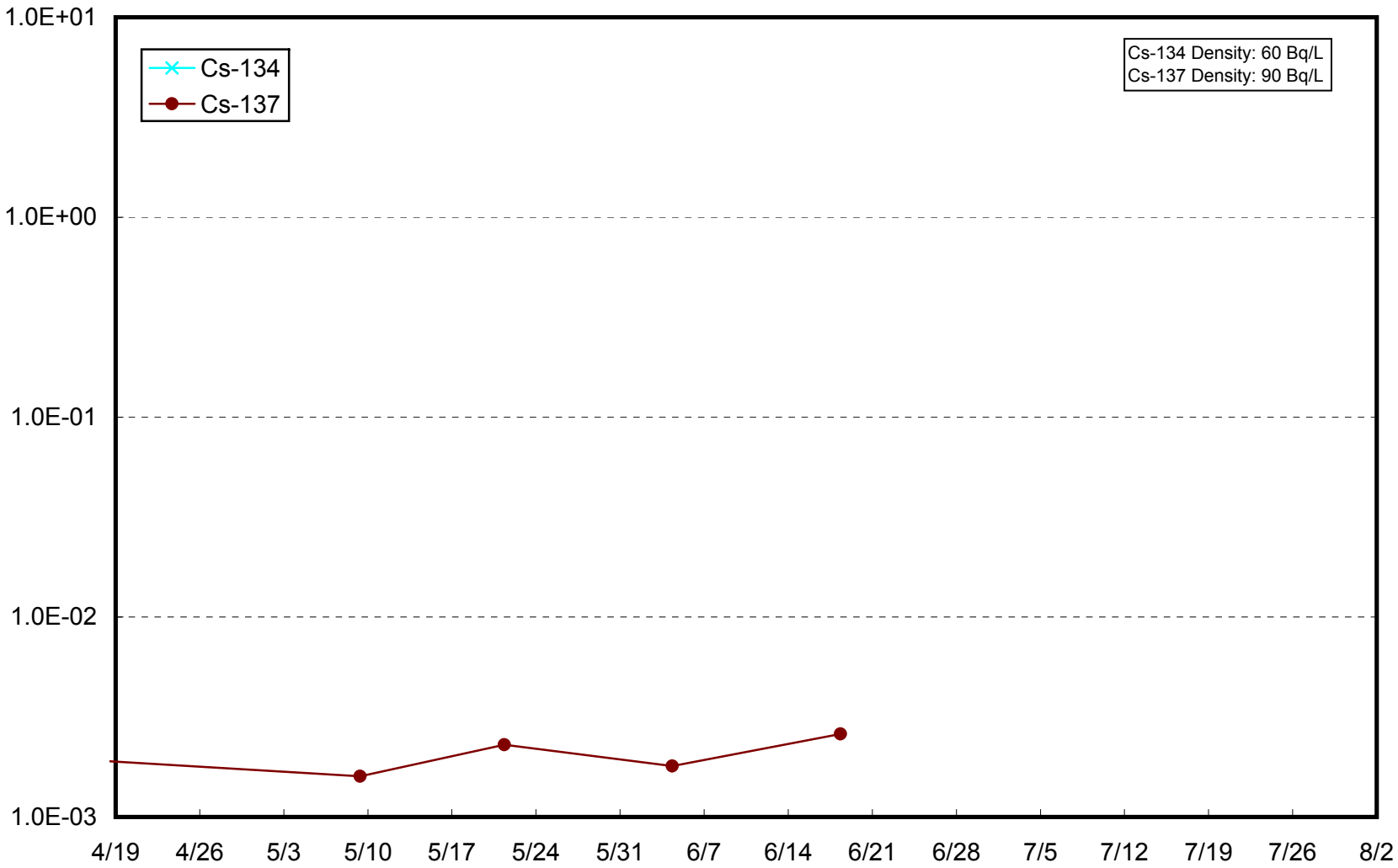
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Upper Layer (Bq/L)



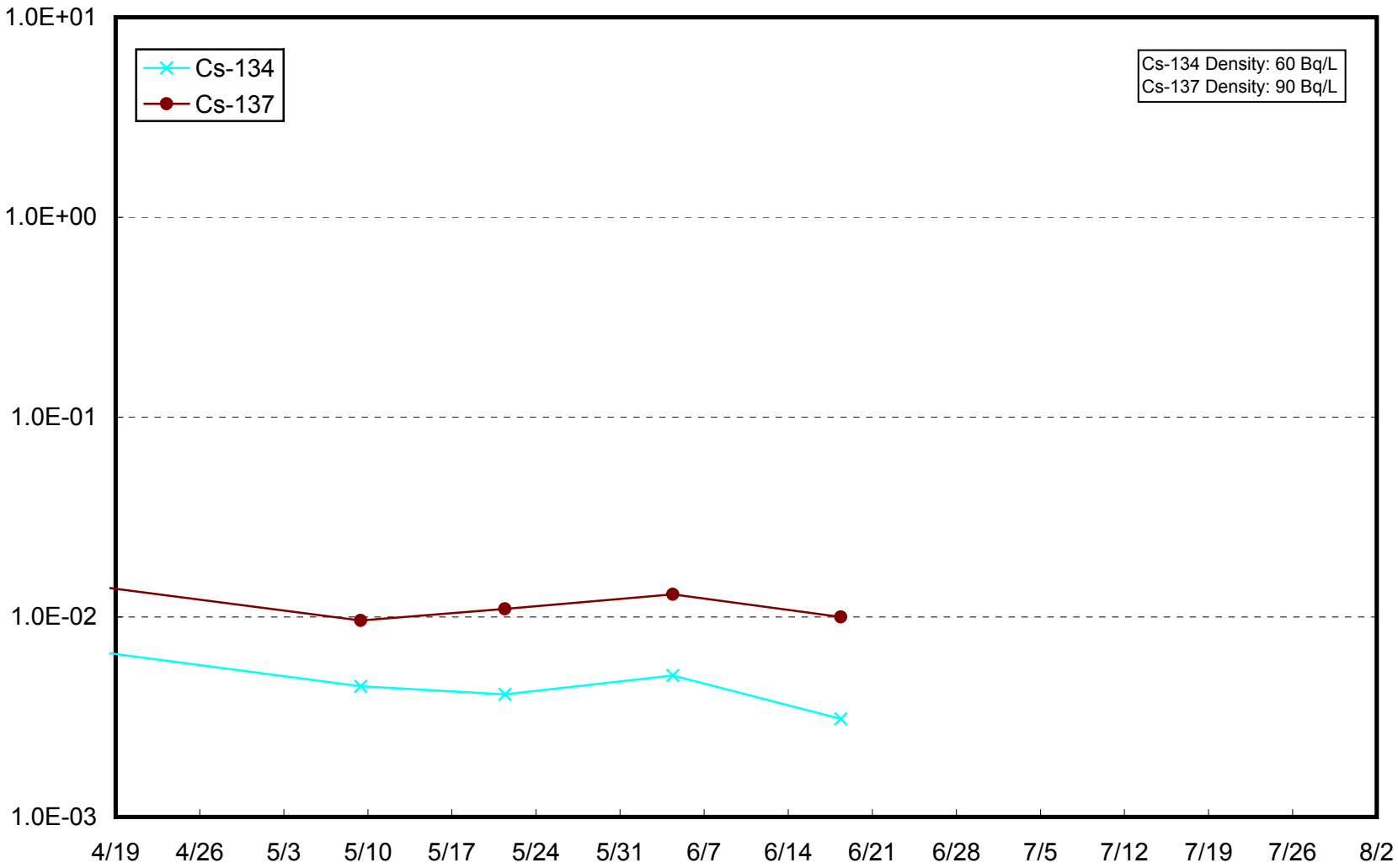
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Middle Layer (Bq/L)



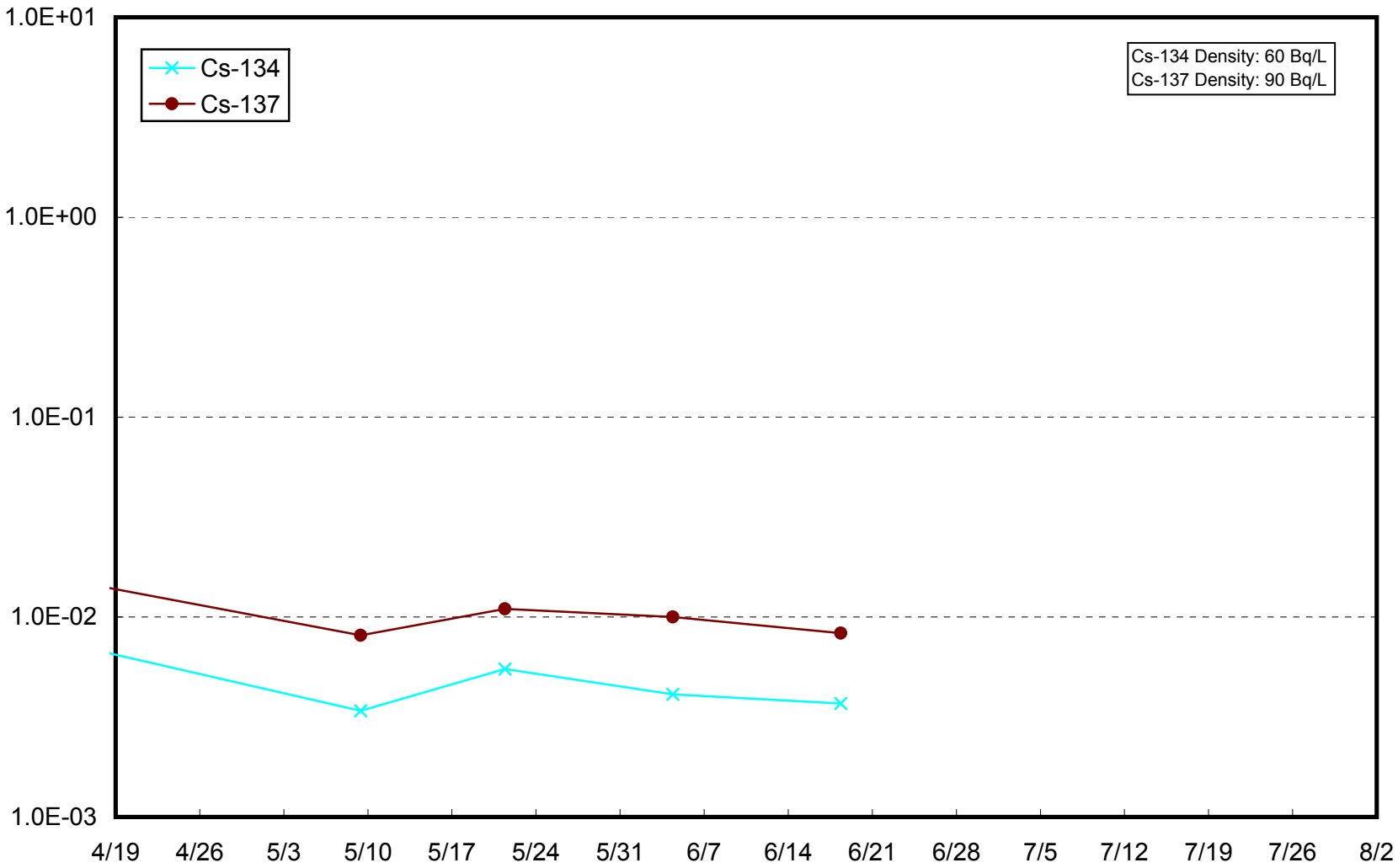
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Lower Layer (Bq/L)



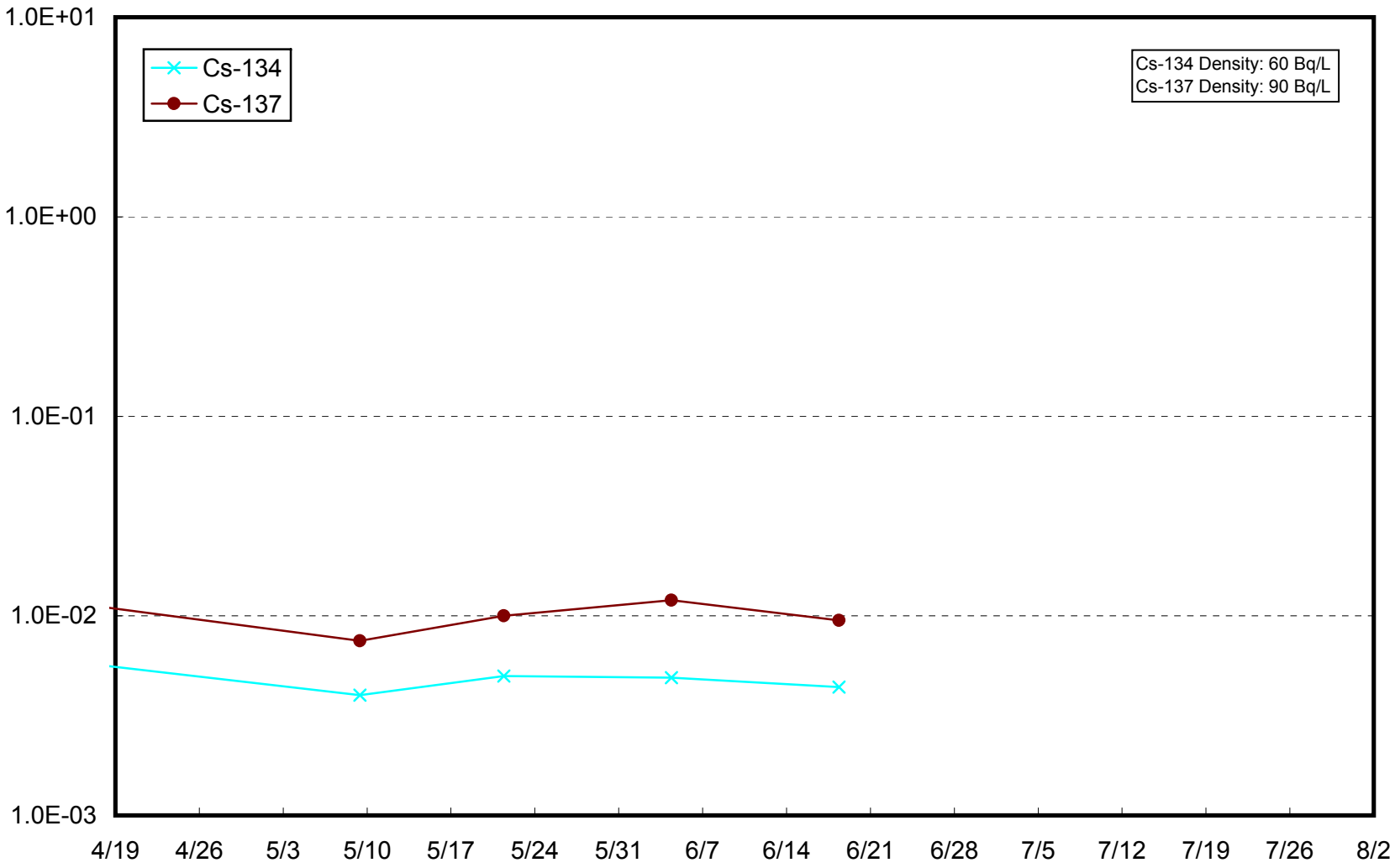
Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Upper Layer (Bq/L)



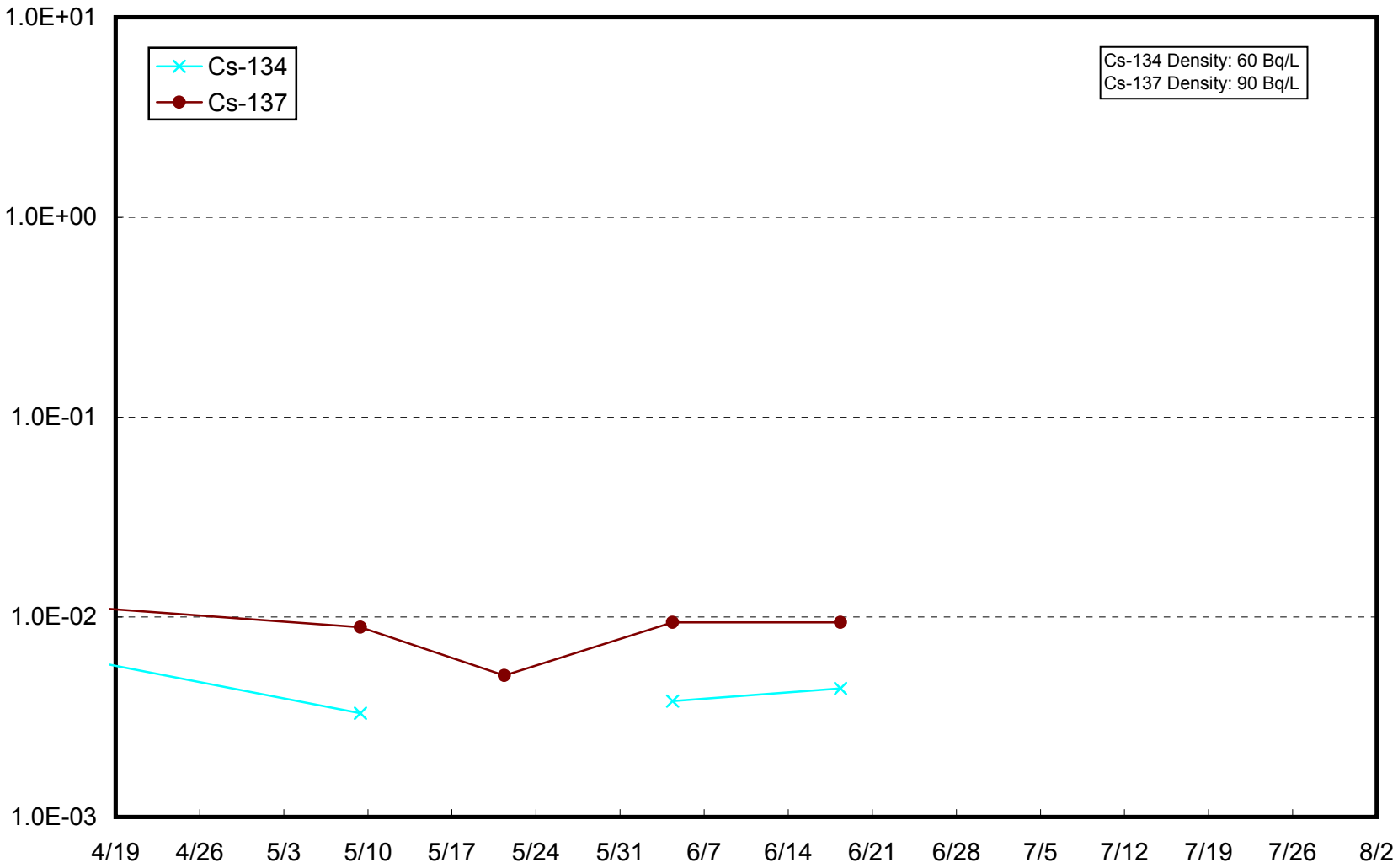
Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Middle Layer (Bq/L)



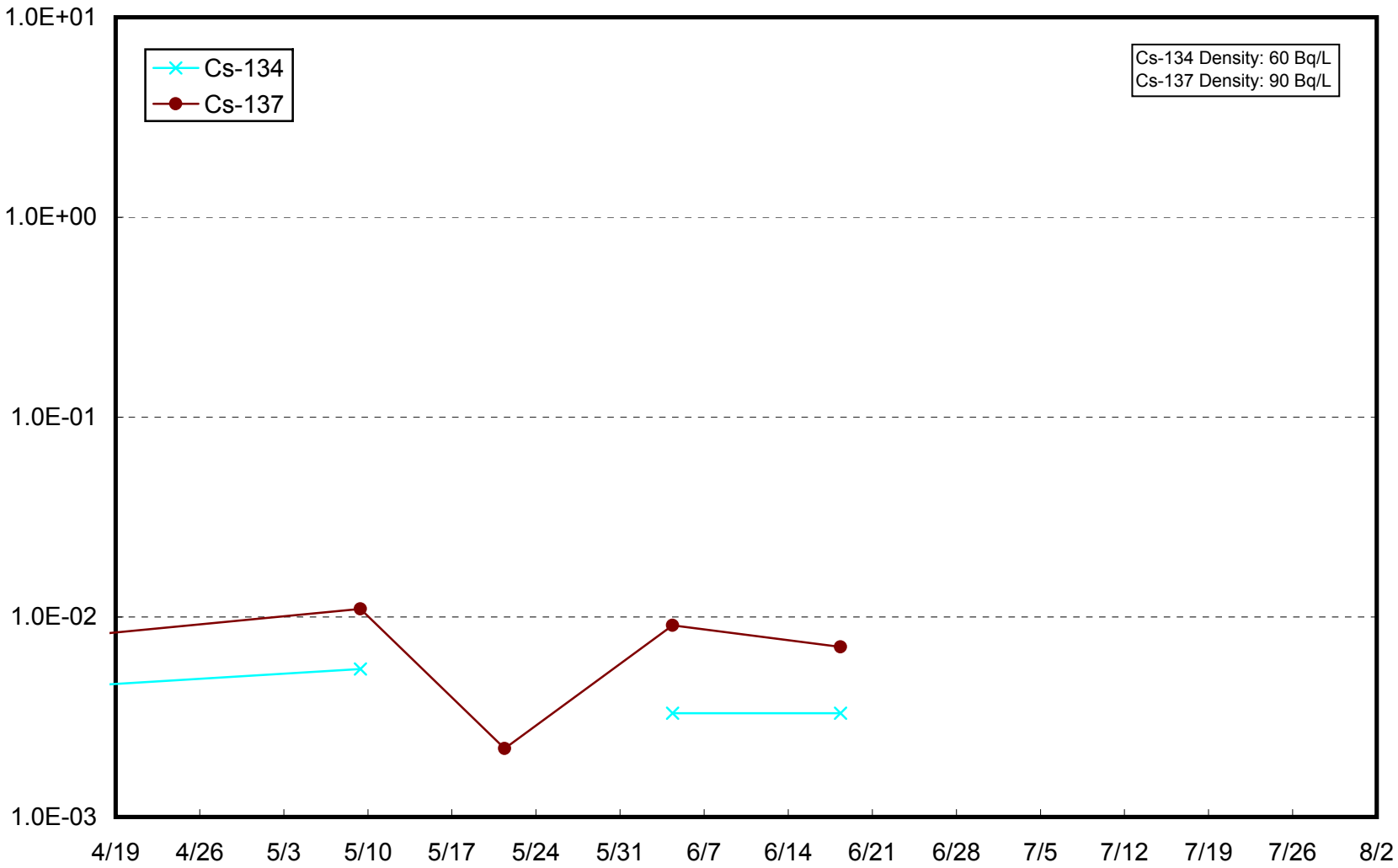
Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Lower Layer (Bq/L)



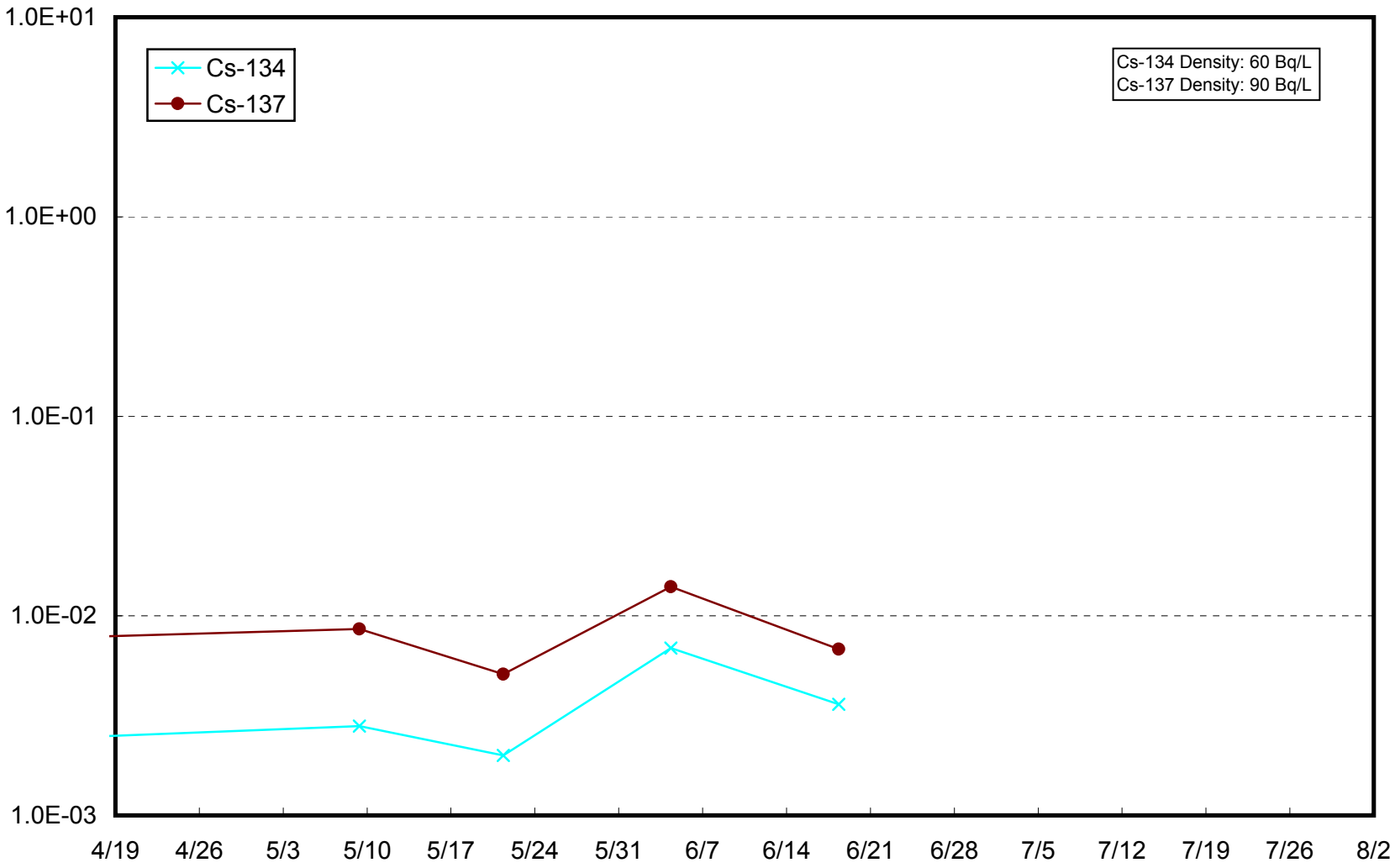
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Upper Layer (Bq/L)



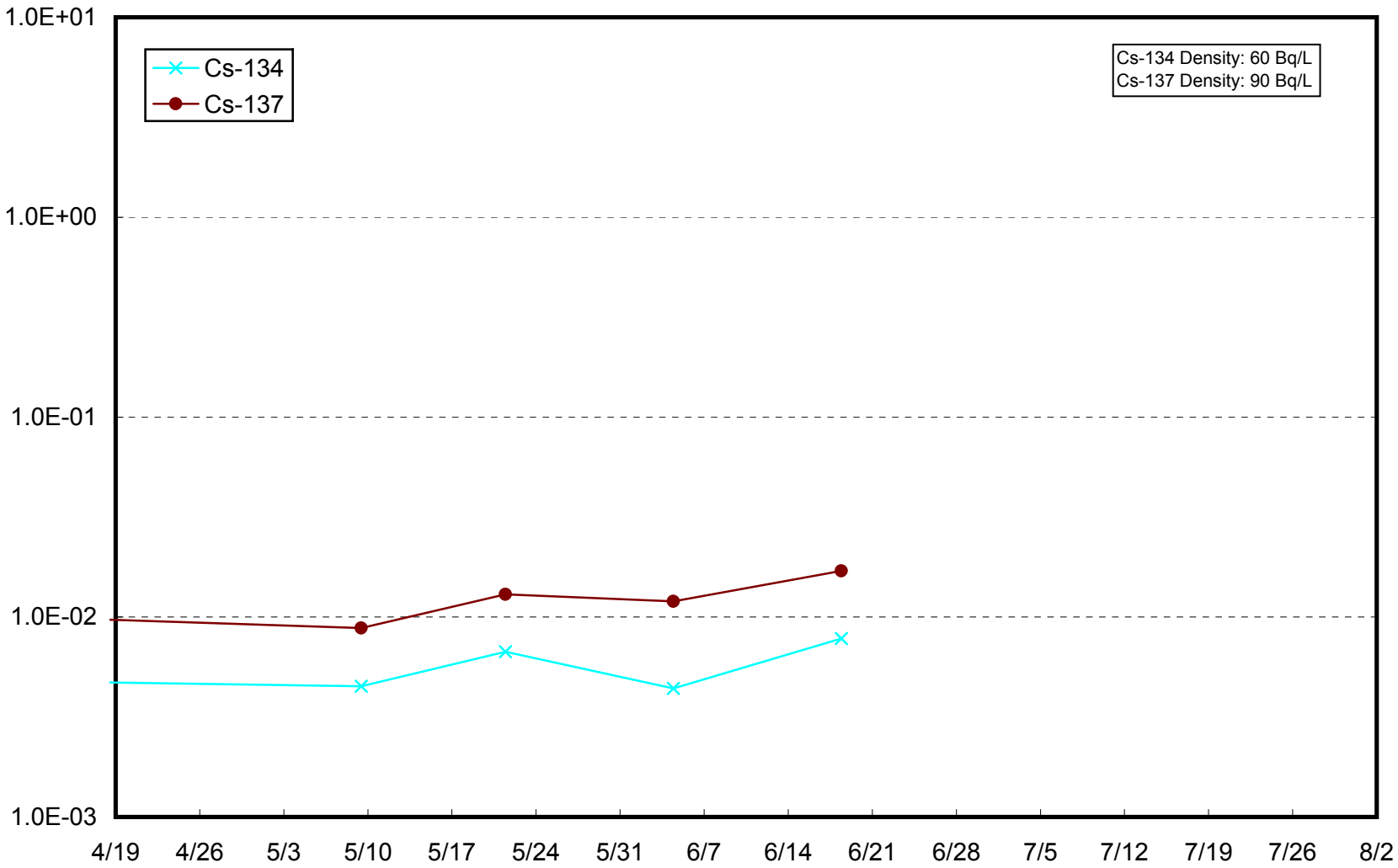
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Middle Layer (Bq/L)



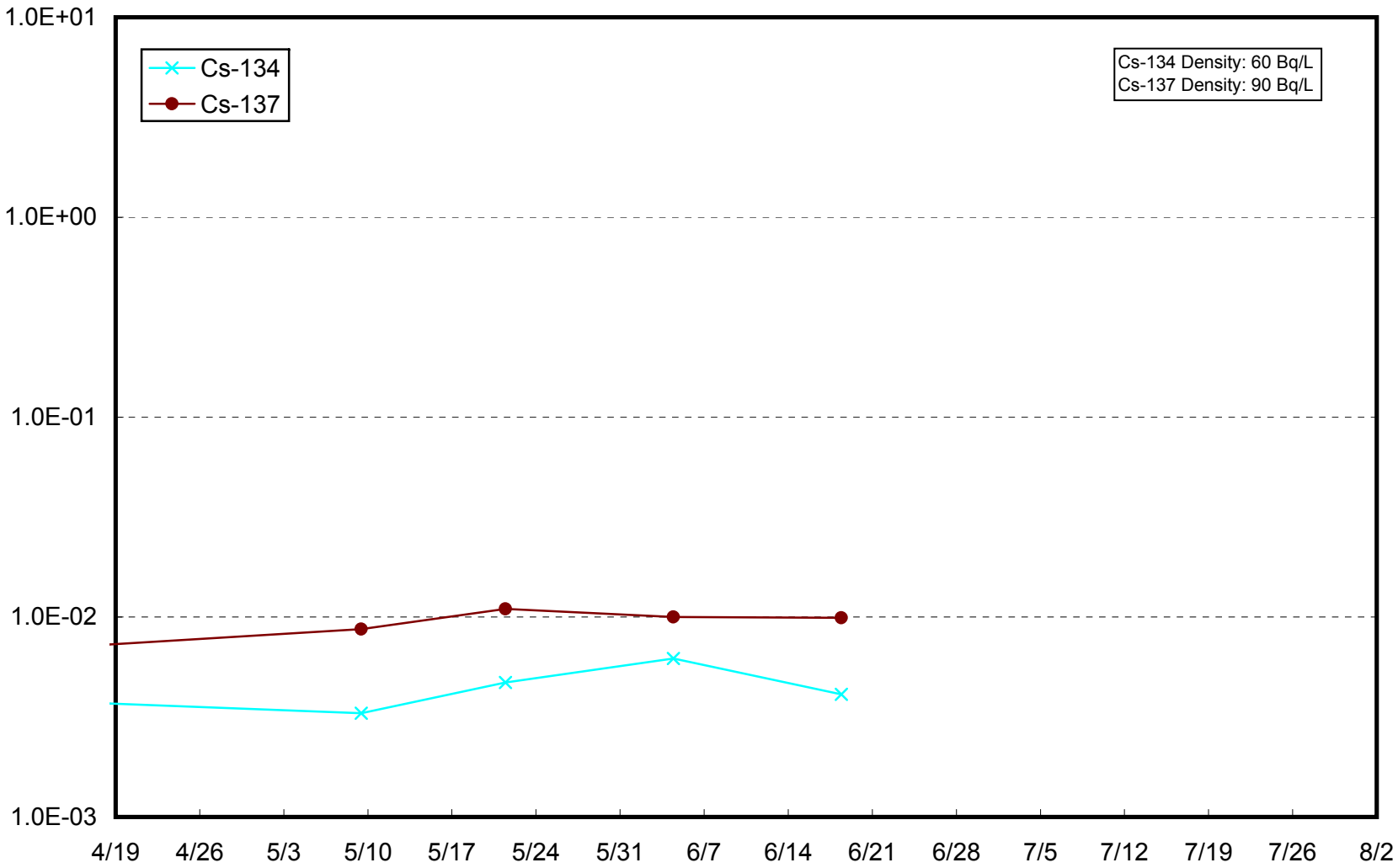
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Lower Layer (Bq/L)



Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Upper Layer (Bq/L)



Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Middle Layer (Bq/L)



Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Lower Layer (Bq/L)