Table 1. Concentrations of PBDEs in gaseous samples (pg/m3).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | BDE-28 | BDE-47 | BDE-100 | BDE-99 | BDE-154 | BDE-153 | BDE-138 | BDE-183 | BDE-209 |
| 2014.03.27 | 0.44 | 0.45 | 0.22 | 0.32 | 0.14 | 0.27 | 0.28 | 0.20 | 6.27 |
| 2014.03.28 | 0.97 | 1.26 | 0.05 | 0.21 | 0.09 | 0.86 | 0.05 | 0.15 | 6.06 |
| 2014.03.29 | 1.01 | 0.98 | 0.06 | 0.36 | 0.39 | 0.44 | 0.08 | 0.12 | 1.26 |
| 2014.03.30 | 0.81 | 0.26 | 0.03 | 0.24 | 0.09 | 0.78 | 0.04 | 0.01 | 2.84 |
| 2014.03.31 | 0.74 | 0.31 | 0.03 | 0.25 | 0.08 | 0.82 | 0.07 | 0.02 | 1.58 |
| 2014.04.01 | 0.57 | 0.21 | 0.02 | 0.17 | 0.08 | 0.52 | 0.04 | 0.02 | 2.47 |
| 2014.04.02 | 0.34 | 0.32 | 0.06 | 0.11 | 0.03 | 0.16 | 0.04 | 0.03 | 1.84 |
| 2014.04.03 | 0.30 | 0.24 | 0.03 | 0.07 | 0.01 | 0.01 | 0.04 | 0.05 | 0.42 |
| 2014.04.04 | 0.47 | 0.35 | 0.05 | 0.07 | 0.08 | 0.23 | 0.08 | 0.05 | 4.46 |
| 2014.04.05 | 0.19 | 0.49 | 0.02 | 0.17 | 0.02 | 0.01 | 0.02 | 0.02 | 3.72 |
| 2014.04.06 | 0.35 | 0.24 | 0.03 | 0.04 | 0.07 | 0.04 | 0.18 | 0.21 | 1.57 |
| 2014.04.07 | 0.53 | 0.44 | 0.11 | 0.10 | 0.02 | 0.09 | 0.04 | 0.02 | 3.50 |
| 2014.04.08 | 0.62 | 0.12 | 0.06 | 0.19 | 0.16 | 0.16 | 0.08 | 0.11 | 1.10 |
| 2014.04.09 | 1.21 | 0.50 | 0.10 | 0.21 | 0.14 | 0.13 | 0.24 | 0.06 | 2.80 |
| 2014.04.10 | 0.21 | 0.83 | 0.02 | 0.28 | 0.07 | 0.10 | 0.03 | 0.34 | 1.02 |
| 2014.04.11 | 0.47 | 0.50 | 0.05 | 0.04 | 0.05 | 0.04 | 0.08 | 0.19 | 23.93 |
| 2014.04.12 | 0.33 | 0.29 | 0.06 | 0.26 | 0.06 | 0.26 | 0.07 | 0.07 | 6.57 |
| 2014.04.13 | 0.15 | 0.20 | 0.03 | 0.13 | 0.06 | 0.05 | 0.07 | 0.02 | 1.82 |
| 2014.04.14 | 0.09 | 0.30 | 0.03 | 0.03 | 0.05 | 0.06 | 0.06 | 0.04 | 29.14 |
| 2014.04.15 | 0.24 | 0.45 | 0.10 | 0.04 | 0.03 | 0.02 | 0.04 | 0.02 | 4.80 |
| 2014.04.16 | 0.89 | 0.43 | 0.15 | 0.03 | 0.07 | 0.01 | 0.08 | 0.15 | 3.37 |
| 2014.04.17 | 0.25 | 0.34 | 0.08 | 0.12 | 0.00 | 0.16 | 0.05 | 0.04 | 5.18 |
| 2014.04.18 | 0.15 | 0.23 | 0.05 | 0.09 | 0.01 | 0.02 | 0.03 | 0.06 | 6.42 |
| 2014.07.29 | 0.14 | 0.37 | 0.02 | 0.25 | 0.19 | 0.09 | 0.03 | 0.04 | 4.05 |
| 2014.07.30 | 0.07 | 0.19 | 0.01 | 0.29 | 0.18 | 0.03 | 0.01 | 0.01 | 13.94 |
| 2014.07.31 | 0.06 | 0.13 | 0.03 | 0.13 | 0.01 | 0.01 | 0.04 | 0.02 | 16.87 |
| 2014.08.03 | 0.21 | 0.07 | 0.09 | 0.18 | 0.01 | 0.09 | 0.01 | 0.02 | 3.60 |
| 2014.08.04 | 0.03 | 0.25 | 0.01 | 0.17 | 0.02 | 0.03 | 0.02 | 0.02 | 14.70 |
| 2014.08.05 | 0.03 | 0.14 | 0.01 | 0.15 | 0.01 | 0.07 | 0.06 | 0.05 | 4.70 |
| 2014.08.06 | 0.04 | 0.21 | 0.02 | 0.26 | 0.02 | 0.02 | 0.04 | 0.03 | 3.43 |
| 2014.08.07 | 0.05 | 0.10 | 0.03 | 0.29 | 0.03 | 0.04 | 0.03 | 0.02 | 13.47 |
| 2014.08.08 | 0.07 | 0.05 | 0.03 | 0.17 | 0.01 | 0.09 | 0.03 | 0.04 | 10.89 |
| 2014.08.09 | 0.05 | 0.24 | 0.01 | 0.09 | 0.01 | 0.06 | 0.07 | 0.04 | 3.99 |
| 2014.08.10 | 0.05 | 0.12 | 0.01 | 0.10 | 0.03 | 0.04 | 0.02 | 0.02 | 36.76 |
| 2014.08.11 | 0.06 | 0.29 | 0.03 | 0.16 | 0.02 | 0.02 | 0.02 | 0.01 | 4.03 |
| 2014.08.12 | 0.08 | 0.16 | 0.03 | 0.18 | 0.02 | 0.06 | 0.06 | 0.04 | 10.36 |
| 2014.08.13 | 0.02 | 0.42 | 0.01 | 0.16 | 0.13 | 0.04 | 0.02 | 0.03 | 11.63 |
| 2014.08.15 | 0.05 | 0.27 | 0.04 | 0.14 | 0.02 | 0.03 | 0.01 | 0.02 | 5.39 |
| 2014.08.16 | 0.04 | 0.24 | 0.03 | 0.05 | 0.03 | 0.02 | 0.00 | 0.03 | 15.26 |
| 2014.08.17 | 0.11 | 0.27 | 0.01 | 0.23 | 0.02 | 0.07 | 0.04 | 0.12 | 10.28 |
| 2014.08.18 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.02 | 3.41 |
| 2014.08.20 | 0.03 | 0.13 | 0.01 | 0.05 | 0.02 | 0.05 | 0.03 | 0.02 | 0.94 |
| 2014.08.21 | 0.03 | 0.11 | 0.01 | 0.05 | 0.02 | 0.04 | 0.04 | 0.01 | 0.85 |
| 2014.08.22 | 0.26 | 0.32 | 0.03 | 0.11 | 0.01 | 0.04 | 0.01 | 0.02 | 3.02 |
| 2014.08.23 | 0.05 | 0.27 | 0.03 | 0.11 | 0.03 | 0.01 | 0.03 | 0.02 | 1.00 |
| 2014.08.24 | 0.24 | 0.24 | 0.03 | 0.15 | 0.02 | 0.03 | 0.02 | 0.02 | 1.56 |
| 2014.08.25 | 0.04 | 0.26 | 0.03 | 0.13 | 0.15 | 0.06 | 0.11 | 0.01 | 7.52 |
| 2014.08.26 | 0.03 | 0.44 | 0.01 | 0.11 | 0.03 | 0.08 | 0.01 | 0.01 | 4.06 |
| 2013.10.20 | 0.29 | 0.48 | 0.02 | 0.17 | 0.01 | 0.01 | 0.05 | 0.02 | 4.68 |
| 2013.10.21 | 0.25 | 0.51 | 0.05 | 0.11 | 0.04 | 0.01 | 0.27 | 0.02 | 9.19 |
| 2013.10.22 | 0.12 | 0.35 | 0.00 | 0.09 | 0.01 | 0.07 | 0.40 | 0.02 | 2.88 |
| 2013.10.23 | 0.11 | 0.49 | 0.04 | 0.21 | 0.18 | 0.16 | 0.12 | 0.06 | 37.64 |
| 2013.10.24 | 0.07 | 0.10 | 0.01 | 0.08 | 0.01 | 0.01 | 0.03 | 0.01 | 2.17 |
| 2013.10.25 | 0.04 | 0.05 | 0.02 | 0.03 | 0.01 | 0.00 | 0.02 | 0.02 | 2.14 |
| 2013.10.26 | 0.09 | 0.14 | 0.01 | 0.06 | 0.01 | 0.04 | 0.02 | 0.02 | 6.17 |
| 2013.10.27 | 0.10 | 0.10 | 0.02 | 0.05 | 0.02 | 0.03 | 0.03 | 0.04 | 2.02 |
| 2013.10.28 | 0.18 | 0.16 | 0.09 | 0.12 | 0.01 | 0.03 | 0.05 | 0.03 | 4.62 |
| 2013.10.29 | 0.06 | 0.34 | 0.05 | 0.17 | 0.03 | 0.02 | 0.01 | 0.01 | 2.84 |
| 2013.10.30 | 0.06 | 0.10 | 0.02 | 0.08 | 0.01 | 0.06 | 0.04 | 0.03 | 7.58 |
| 2013.10.31 | 0.05 | 0.23 | 0.03 | 0.10 | 0.02 | 0.03 | 0.04 | 0.03 | 0.68 |
| 2013.11.1 | 0.16 | 0.33 | 0.07 | 0.08 | 0.00 | 0.04 | 0.03 | 0.02 | 0.48 |
| 2013.11.2 | 0.11 | 0.18 | 0.04 | 0.14 | 0.03 | 0.01 | 0.02 | 0.02 | 1.66 |
| 2013.11.3 | 0.07 | 0.12 | 0.06 | 0.09 | 0.00 | 0.02 | 0.03 | 0.01 | 0.48 |
| 2013.11.4 | 0.09 | 0.20 | 0.02 | 0.04 | 0.02 | 0.05 | 0.03 | 0.03 | 42.28 |
| 2013.11.5 | 0.04 | 0.06 | 0.01 | 0.04 | 0.01 | 0.01 | 0.03 | 0.02 | 3.52 |
| 2013.11.6 | 0.59 | 0.53 | 0.09 | 0.15 | 0.01 | 0.09 | 0.08 | 0.03 | 1.65 |
| 2013.11.7 | 1.13 | 0.77 | 0.15 | 0.26 | 0.29 | 0.17 | 0.08 | 0.05 | 2.49 |
| 2013.11.8 | 0.48 | 0.34 | 0.21 | 0.19 | 0.15 | 0.23 | 0.12 | 0.06 | 7.20 |
| 2013.11.9 | 0.01 | 0.34 | 0.07 | 0.17 | 0.01 | 0.01 | 0.03 | 0.03 | 1.85 |
| 2013.11.10 | 0.02 | 0.11 | 0.01 | 0.03 | 0.03 | 0.10 | 0.04 | 0.03 | 0.42 |
| 2013.11.11 | 0.02 | 0.06 | 0.04 | 0.03 | 0.02 | 0.03 | 0.04 | 0.02 | 2.20 |
| 2013.11.12 | 0.04 | 0.03 | 0.03 | 0.03 | 0.01 | 0.02 | 0.01 | 0.01 | 0.80 |
| 2013.12.22 | 0.07 | 0.05 | 0.02 | 0.06 | 0.01 | 0.10 | 0.06 | 0.09 | 0.90 |
| 2013.12.23 | 0.10 | 0.01 | 0.02 | 0.02 | 0.01 | 0.04 | 0.04 | 0.02 | 2.11 |
| 2013.12.24 | 0.03 | 0.02 | 0.01 | 0.02 | 0.02 | 0.05 | 0.04 | 0.04 | 2.83 |
| 2013.12.25 | 0.04 | 0.04 | 0.02 | 0.25 | 0.01 | 0.23 | 0.15 | 0.08 | 7.73 |
| 2013.12.26 | 0.02 | 0.11 | 0.03 | 0.46 | 0.06 | 0.37 | 0.08 | 0.03 | 0.69 |
| 2013.12.27 | 0.06 | 0.02 | 0.06 | 0.02 | 0.03 | 0.11 | 0.04 | 0.01 | 2.16 |
| 2013.12.28 | 0.04 | 0.02 | 0.03 | 0.20 | 0.02 | 0.10 | 0.02 | 0.02 | 1.78 |
| 2013.12.29 | 0.18 | 0.04 | 0.10 | 0.26 | 0.23 | 0.23 | 0.14 | 0.06 | 0.45 |
| 2013.12.30 | 0.52 | 0.15 | 0.04 | 0.01 | 0.03 | 0.09 | 0.07 | 0.06 | 13.30 |
| 2013.12.31 | 0.79 | 0.33 | 0.18 | 0.47 | 0.07 | 0.51 | 0.05 | 0.02 | 1.09 |
| 2014.01.01 | 0.42 | 0.45 | 0.04 | 0.04 | 0.01 | 0.19 | 0.14 | 0.02 | 0.12 |
| 2014.01.02 | 0.44 | 0.30 | 0.12 | 0.04 | 0.02 | 0.04 | 0.03 | 0.03 | 0.48 |
| 2014.01.03 | 0.21 | 0.13 | 0.04 | 0.06 | 0.01 | 0.08 | 0.01 | 0.01 | 0.30 |
| 2014.01.04 | 0.21 | 0.12 | 0.01 | 0.01 | 0.01 | 0.05 | 0.01 | 0.01 | 0.25 |
| 2014.01.05 | 0.08 | 0.05 | 0.02 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.82 |
| 2014.01.06 | 0.25 | 0.11 | 0.03 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.79 |
| 2014.01.07 | 0.21 | 0.21 | 0.04 | 0.02 | 0.01 | 0.03 | 0.03 | 0.01 | 0.35 |
| 2014.01.09 | 0.12 | 0.02 | 0.01 | 0.03 | 0.01 | 0.03 | 0.07 | 0.05 | 0.33 |
| 2014.01.10 | 0.07 | 0.04 | 0.01 | 0.04 | 0.02 | 0.04 | 0.03 | 0.01 | 0.29 |
| 2014.01.11 | 0.04 | 0.04 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.20 |
| 2014.01.12 | 0.09 | 0.07 | 0.02 | 0.11 | 0.01 | 0.09 | 0.02 | 0.01 | 0.61 |
| 2014.01.13 | 0.04 | 0.01 | 0.01 | 0.04 | 0.00 | 0.04 | 0.01 | 0.01 | 0.24 |
| 2014.01.14 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.02 | 0.02 | 0.01 | 0.31 |

Table 2. Concentrations of PBDEs in particle samples (pg/m3).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | BDE-28 | BDE-47 | BDE-100 | BDE-99 | BDE-154 | BDE-153 | BDE-138 | BDE-183 | BDE-209 |
| 2014.03.27 | 0.11 | 0.03 | 0.04 | 0.04 | 0.02 | 0.08 | 0.11 | 0.02 | 11.84 |
| 2014.03.28 | 0.07 | 0.04 | 0.11 | 0.10 | 0.10 | 0.68 | 0.09 | 0.46 | 7.78 |
| 2014.03.29 | 0.07 | 0.17 | 0.04 | 0.16 | 0.18 | 1.93 | 0.10 | 3.06 | 21.10 |
| 2014.03.30 | 0.04 | 0.07 | 0.05 | 0.09 | 0.03 | 0.05 | 0.12 | 0.08 | 4.58 |
| 2014.03.31 | 0.05 | 0.18 | 0.05 | 0.04 | 0.06 | 0.07 | 0.02 | 0.04 | 3.70 |
| 2014.04.01 | 0.04 | 0.03 | 0.07 | 0.10 | 0.04 | 0.02 | 0.05 | 0.01 | 2.27 |
| 2014.04.02 | 0.04 | 0.11 | 0.05 | 0.04 | 0.02 | 0.09 | 0.02 | 0.08 | 14.72 |
| 2014.04.03 | 0.08 | 0.04 | 0.05 | 0.05 | 0.03 | 0.05 | 0.06 | 0.08 | 2.44 |
| 2014.04.04 | 0.04 | 0.10 | 0.02 | 0.09 | 0.05 | 0.22 | 0.09 | 0.10 | 47.33 |
| 2014.04.05 | 0.22 | 0.20 | 0.09 | 0.10 | 0.06 | 0.07 | 0.16 | 0.26 | 80.19 |
| 2014.04.06 | 0.04 | 0.06 | 0.02 | 0.07 | 0.03 | 0.05 | 0.13 | 0.13 | 17.34 |
| 2014.04.07 | 0.03 | 0.05 | 0.02 | 0.03 | 0.07 | 0.06 | 0.02 | 0.04 | 2.34 |
| 2014.04.08 | 0.07 | 0.05 | 0.09 | 0.03 | 0.03 | 0.06 | 0.10 | 0.01 | 4.15 |
| 2014.04.09 | 0.06 | 0.02 | 0.13 | 0.03 | 0.06 | 0.04 | 0.46 | 0.18 | 6.90 |
| 2014.04.10 | 0.08 | 0.05 | 0.03 | 0.07 | 0.02 | 0.04 | 0.10 | 0.08 | 9.81 |
| 2014.04.11 | 0.04 | 0.27 | 0.24 | 0.24 | 0.06 | 0.08 | 0.09 | 0.37 | 9.43 |
| 2014.04.12 | 0.07 | 0.14 | 0.06 | 0.09 | 0.34 | 2.46 | 0.18 | 1.23 | 39.86 |
| 2014.04.13 | 0.08 | 0.02 | 0.08 | 0.03 | 0.05 | 0.12 | 0.09 | 0.11 | 18.40 |
| 2014.04.14 | 0.13 | 0.02 | 0.11 | 0.04 | 0.06 | 0.12 | 0.10 | 0.12 | 50.74 |
| 2014.04.15 | 0.10 | 0.11 | 0.09 | 0.04 | 0.09 | 0.28 | 0.09 | 0.08 | 6.08 |
| 2014.04.16 | 0.14 | 0.09 | 0.11 | 0.06 | 0.12 | 0.05 | 0.03 | 0.06 | 1.50 |
| 2014.04.17 | 0.03 | 0.02 | 0.02 | 0.03 | 0.01 | 0.05 | 0.06 | 0.05 | 2.43 |
| 2014.04.18 | 0.09 | 0.02 | 0.04 | 0.04 | 0.02 | 0.01 | 0.08 | 0.40 | 15.56 |
| 2014.07.29 | 0.03 | 0.01 | 0.02 | 0.04 | 0.03 | 0.05 | 0.04 | 0.02 | 3.49 |
| 2014.07.30 | 0.03 | 0.01 | 0.02 | 0.03 | 0.03 | 0.06 | 0.05 | 0.03 | 4.56 |
| 2014.07.31 | 0.09 | 0.02 | 0.04 | 0.07 | 0.03 | 0.20 | 0.03 | 0.10 | 1.91 |
| 2014.08.03 | 0.03 | 0.01 | 0.01 | 0.02 | 0.05 | 0.06 | 0.04 | 0.05 | 7.60 |
| 2014.08.04 | 0.04 | 0.01 | 0.01 | 0.03 | 0.03 | 0.04 | 0.02 | 0.04 | 1.31 |
| 2014.08.05 | 0.04 | 0.06 | 0.02 | 0.01 | 0.04 | 0.03 | 0.09 | 0.02 | 2.27 |
| 2014.08.06 | 0.01 | 0.01 | 0.00 | 0.02 | 0.02 | 0.05 | 0.01 | 0.02 | 2.68 |
| 2014.08.07 | 0.02 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.02 | 0.04 | 0.26 |
| 2014.08.08 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.04 | 0.03 | 0.06 | 0.49 |
| 2014.08.09 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.05 | 0.08 | 0.71 |
| 2014.08.10 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.04 | 0.02 | 1.57 |
| 2014.08.11 | 0.02 | 0.02 | 0.01 | 0.04 | 0.03 | 0.02 | 0.03 | 0.01 | 2.79 |
| 2014.08.12 | 0.04 | 0.04 | 0.09 | 0.03 | 0.05 | 0.76 | 0.03 | 0.03 | 11.21 |
| 2014.08.13 | 0.02 | 0.01 | 0.01 | 0.04 | 0.01 | 0.03 | 0.04 | 0.03 | 0.39 |
| 2014.08.15 | 0.01 | 0.06 | 0.03 | 0.02 | 0.03 | 0.03 | 0.03 | 0.02 | 0.72 |
| 2014.08.16 | 0.02 | 0.04 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.04 | 1.04 |
| 2014.08.17 | 0.03 | 0.01 | 0.01 | 0.04 | 0.02 | 0.14 | 0.02 | 0.23 | 5.82 |
| 2014.08.18 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.06 | 0.01 | 0.03 | 4.43 |
| 2014.08.20 | 0.01 | 0.01 | 0.03 | 0.02 | 0.04 | 0.03 | 0.01 | 0.01 | 2.14 |
| 2014.08.21 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.03 | 0.02 | 0.02 | 2.30 |
| 2014.08.22 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 1.03 |
| 2014.08.23 | 0.02 | 0.00 | 0.01 | 0.01 | 0.02 | 0.03 | 0.07 | 0.06 | 1.55 |
| 2014.08.24 | 0.00 | 0.02 | 0.01 | 0.02 | 0.01 | 0.03 | 0.06 | 0.03 | 3.64 |
| 2014.08.25 | 0.01 | 0.02 | 0.02 | 0.03 | 0.01 | 0.10 | 0.02 | 0.08 | 11.33 |
| 2014.08.26 | 0.02 | 0.01 | 0.04 | 0.01 | 0.01 | 0.03 | 0.03 | 0.02 | 1.86 |
| 2013.10.20 | 0.05 | 0.03 | 0.06 | 0.02 | 0.01 | 0.22 | 0.12 | 0.07 | 12.18 |
| 2013.10.21 | 0.04 | 0.01 | 0.10 | 0.22 | 0.02 | 0.11 | 0.04 | 0.07 | 11.41 |
| 2013.10.22 | 0.01 | 0.04 | 0.06 | 0.02 | 0.01 | 0.17 | 0.02 | 0.02 | 47.82 |
| 2013.10.23 | 0.02 | 0.04 | 0.05 | 0.02 | 0.01 | 0.01 | 0.03 | 0.04 | 3.76 |
| 2013.10.24 | 0.01 | 0.01 | 0.02 | 0.01 | 0.02 | 0.13 | 0.02 | 0.03 | 5.82 |
| 2013.10.25 | 0.02 | 0.02 | 0.01 | 0.01 | 0.02 | 0.09 | 0.04 | 0.03 | 3.27 |
| 2013.10.26 | 0.03 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 | 0.03 | 0.02 | 0.79 |
| 2013.10.27 | 0.03 | 0.02 | 0.02 | 0.01 | 0.01 | 0.03 | 0.01 | 0.05 | 1.50 |
| 2013.10.28 | 0.02 | 0.01 | 0.03 | 0.04 | 0.02 | 0.03 | 0.06 | 0.02 | 0.60 |
| 2013.10.29 | 0.07 | 0.04 | 0.02 | 0.02 | 0.01 | 0.03 | 0.02 | 0.02 | 3.06 |
| 2013.10.30 | 0.02 | 0.01 | 0.02 | 0.03 | 0.03 | 0.04 | 0.09 | 0.03 | 2.51 |
| 2013.10.31 | 0.03 | 0.01 | 0.01 | 0.02 | 0.01 | 0.03 | 0.04 | 0.01 | 0.85 |
| 2013.11.1 | 0.03 | 0.01 | 0.03 | 0.04 | 0.01 | 0.03 | 0.05 | 0.02 | 2.55 |
| 2013.11.2 | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.03 | 0.01 | 0.49 |
| 2013.11.3 | 0.02 | 0.00 | 0.05 | 0.01 | 0.02 | 0.14 | 0.03 | 0.09 | 2.37 |
| 2013.11.4 | 0.03 | 0.02 | 0.07 | 0.03 | 0.02 | 0.03 | 0.04 | 0.08 | 0.71 |
| 2013.11.5 | 0.03 | 0.01 | 0.01 | 0.03 | 0.02 | 0.02 | 0.09 | 0.08 | 0.92 |
| 2013.11.6 | 0.09 | 0.18 | 0.40 | 0.41 | 0.70 | 0.44 | 0.25 | 0.25 | 32.48 |
| 2013.11.7 | 0.11 | 0.07 | 1.19 | 0.17 | 1.14 | 1.82 | 1.34 | 0.81 | 98.32 |
| 2013.11.8 | 0.02 | 0.10 | 0.03 | 0.04 | 0.03 | 0.03 | 0.08 | 0.13 | 1.88 |
| 2013.11.9 | 0.04 | 0.02 | 0.02 | 0.04 | 0.11 | 0.17 | 0.05 | 0.03 | 4.68 |
| 2013.11.10 | 0.02 | 0.02 | 0.03 | 0.05 | 0.07 | 0.04 | 0.03 | 0.03 | 1.31 |
| 2013.11.11 | 0.02 | 0.02 | 0.01 | 0.01 | 0.05 | 0.13 | 0.01 | 0.06 | 9.53 |
| 2013.11.12 | 0.01 | 0.01 | 0.02 | 0.02 | 0.01 | 0.04 | 0.00 | 0.02 | 0.75 |
| 2013.12.22 | 0.02 | 0.03 | 0.02 | 0.04 | 0.04 | 0.05 | 0.07 | 0.04 | 0.68 |
| 2013.12.23 | 0.09 | 0.04 | 0.06 | 0.07 | 0.03 | 0.28 | 0.04 | 0.12 | 7.58 |
| 2013.12.24 | 0.10 | 0.13 | 0.59 | 0.19 | 0.43 | 1.62 | 0.16 | 0.55 | 24.65 |
| 2013.12.25 | 0.05 | 0.07 | 0.53 | 0.20 | 0.12 | 0.72 | 0.08 | 0.24 | 7.24 |
| 2013.12.26 | 0.03 | 0.41 | 0.67 | 0.34 | 0.54 | 1.66 | 0.11 | 0.91 | 19.75 |
| 2013.12.27 | 0.12 | 0.30 | 0.47 | 0.12 | 0.11 | 0.56 | 0.12 | 0.37 | 11.19 |
| 2013.12.28 | 0.14 | 1.18 | 2.66 | 0.67 | 0.51 | 0.59 | 0.47 | 3.09 | 126.66 |
| 2013.12.29 | 0.38 | 0.92 | 1.90 | 0.91 | 1.20 | 1.12 | 0.14 | 3.53 | 94.16 |
| 2013.12.30 | 0.04 | 1.03 | 2.21 | 0.63 | 1.22 | 1.48 | 0.35 | 2.66 | 45.07 |
| 2013.12.31 | 0.39 | 2.23 | 3.23 | 1.23 | 1.47 | 1.36 | 0.38 | 0.62 | 93.95 |
| 2014.01.01 | 0.25 | 1.20 | 1.24 | 0.88 | 0.33 | 0.44 | 0.09 | 0.92 | 43.53 |
| 2014.01.02 | 0.12 | 0.10 | 0.35 | 0.07 | 0.05 | 0.06 | 0.03 | 0.07 | 3.55 |
| 2014.01.03 | 0.05 | 0.11 | 0.69 | 0.29 | 0.46 | 0.48 | 0.36 | 0.89 | 22.67 |
| 2014.01.04 | 0.05 | 0.02 | 0.07 | 0.02 | 0.03 | 0.03 | 0.05 | 0.05 | 3.36 |
| 2014.01.05 | 0.23 | 0.08 | 0.04 | 0.01 | 0.08 | 0.07 | 0.10 | 0.10 | 0.78 |
| 2014.01.06 | 0.03 | 0.11 | 0.03 | 0.02 | 0.03 | 0.08 | 0.12 | 0.09 | 6.41 |
| 2014.01.07 | 0.14 | 0.10 | 0.03 | 0.02 | 0.11 | 0.02 | 0.22 | 0.07 | 0.97 |
| 2014.01.09 | 0.01 | 0.03 | 0.04 | 0.01 | 0.01 | 0.00 | 0.01 | 0.02 | 0.09 |
| 2014.01.10 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.02 | 0.05 |
| 2014.01.11 | 0.00 | 0.00 | 0.03 | 0.00 | 0.02 | 0.01 | 0.02 | 0.03 | 0.32 |
| 2014.01.12 | 0.02 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.02 | 0.01 | 0.13 |
| 2014.01.13 | 0.01 | 0.00 | 0.01 | 0.00 | 0.01 | 0.02 | 0.01 | 0.03 | 0.18 |
| 2014.01.14 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.02 | 0.24 |

Table 3. Concentrations of selected PBDEs in dissolved phase from surface seawater (pg/L).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Cw pg/L | BDE-47 | BDE-100 | BDE-99 | BDE-183 | BDE-209 |
| 2014.3.28 | 0.81 | 0.57 | 0.26 | 0.44 | 31.28 |
| 2014.3.30 | 0.43 | 0.89 | 0.97 | 2.56 | 21.68 |
| 2014.4.1 | 1.07 | 0.33 | 0.05 | 0.19 | 3.93 |
| 2014.4.3 | 1.76 | 1.54 | 1.43 | 6.47 | 32.02 |
| 2014.4.5 | 0.69 | 0.81 | 0.24 | 1.78 | 19.04 |
| 2014.7.31 | 0.24 | 1.70 | 0.26 | 10.10 | 17.12 |
| 2014.7.29 | 1.74 | 0.48 | 0.93 | 1.91 | 30.79 |
| 2014.7.30 | 1.13 | 0.45 | 0.37 | 1.96 | 5.58 |
| 2014.8.3 | 0.70 | 1.54 | 0.83 | 0.54 | 11.89 |
| 2014.8.5 | 0.24 | 0.18 | 0.59 | 0.10 | 8.75 |
| 2014.8.9 | 0.36 | 3.41 | 0.53 | 13.38 | 6.48 |
| 2013.10.20 | 2.51 | 0.86 | 0.10 | 0.66 | 1.11 |
| 2013.10.22 | nd. | 0.25 | 0.20 | 0.39 | 1.69 |
| 2103.10.24 | 0.70 | 0.15 | 0.38 | 1.20 | 0.70 |
| 2013.10.27 | 2.11 | 0.34 | 0.07 | 0.58 | 2.01 |
| 2013.10.29 | 0.70 | 0.22 | 0.58 | 1.75 | 1.79 |
| 2013.12.22 | 2.45 | 5.31 | 1.24 | 0.25 | 22.14 |
| 2013.12.24 | 1.13 | 4.19 | 1.56 | 2.89 | 106.67 |
| 2013.12.26 | 1.62 | 6.82 | 0.59 | 1.06 | 35.18 |
| 2013.12.29 | 2.21 | 4.04 | 0.69 | 1.12 | 134.94 |

Table 4. Median concentrations of PBDEs in rainwater samples (pg/L).

|  |  |  |  |
| --- | --- | --- | --- |
|  | Min | Max | Median |
| BDE-28 | 3.65 | 165.38 | 17.02 |
| BDE-47 | 2.35 | 308.48 | 16.50 |
| BDE-100 | 0.94 | 132.63 | 3.94 |
| BDE-99 | 0.46 | 188.63 | 7.96 |
| BDE-154 | 1.06 | 105.93 | 5.41 |
| BDE-153 | 1.82 | 96.32 | 18.39 |
| BDE-138 | 2.80 | 235.38 | 15.44 |
| BDE-183 | 3.66 | 106.71 | 12.54 |
| BDE-209 | 11.44 | 5573.93 | 286.10 |

Table 5. Concentrations of ICES-PCBs in gaseous samples (pg/m3).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | PCB 31+28 | PCB 52 | PCB 101 | PCB 118 | PCB 153 | PCB 138+158 | PCB 180 |
| 2014.03.27 | 8.00 | 5.84 | 0.84 | 0.92 | 1.74 | 0.41 | 0.08 |
| 2014.03.28 | 3.35 | 1.78 | 0.30 | 0.42 | 0.13 | 0.11 | 0.02 |
| 2014.03.29 | 2.80 | 5.59 | 0.55 | 0.10 | 3.77 | 0.44 | 0.12 |
| 2014.03.30 | 3.10 | 1.72 | 0.21 | 0.12 | 4.74 | 3.73 | 0.10 |
| 2014.03.31 | 0.54 | 1.79 | 2.13 | 0.05 | 2.22 | 0.14 | 0.01 |
| 2014.04.01 | 0.28 | 1.86 | 1.60 | 0.05 | 0.11 | 0.07 | 0.01 |
| 2014.04.02 | 0.14 | 1.59 | 1.02 | 0.04 | 0.01 | 0.03 | 0.01 |
| 2014.04.03 | 0.42 | 6.45 | 0.46 | 0.08 | 0.49 | 0.20 | 0.02 |
| 2014.04.04 | 3.17 | 9.00 | 1.13 | 0.02 | 3.46 | 0.43 | 0.10 |
| 2014.04.05 | 3.14 | 26.06 | 0.74 | 0.05 | 2.89 | 0.75 | 0.04 |
| 2014.04.06 | 9.05 | 15.25 | 6.14 | 0.03 | 12.85 | 0.50 | 0.28 |
| 2014.04.07 | 1.24 | 1.64 | 0.10 | 0.00 | 1.63 | 0.09 | 0.03 |
| 2014.04.08 | 2.35 | 9.65 | 9.47 | 0.09 | 1.26 | 0.53 | 0.14 |
| 2014.04.09 | 10.22 | 14.59 | 10.83 | 0.20 | 2.73 | 0.26 | 0.31 |
| 2014.04.10 | 4.08 | 32.43 | 11.24 | 0.66 | 0.62 | 0.41 | 0.42 |
| 2014.04.11 | 5.93 | 17.86 | 3.53 | 1.15 | 3.49 | 1.00 | 0.24 |
| 2014.04.12 | 2.04 | 1.06 | 2.77 | 0.12 | 0.96 | 0.10 | 0.14 |
| 2014.04.13 | 4.04 | 7.45 | 0.30 | 0.49 | 0.74 | 0.41 | 0.04 |
| 2014.04.14 | 0.86 | 2.65 | 0.24 | 0.04 | 1.62 | 0.16 | 0.02 |
| 2014.04.15 | 0.38 | 3.38 | 1.56 | 0.09 | 0.44 | 0.16 | 0.04 |
| 2014.04.16 | 0.39 | 5.25 | 0.25 | 0.23 | 0.77 | 0.25 | 0.04 |
| 2014.04.17 | 0.66 | 4.35 | 1.57 | 0.39 | 0.12 | 0.26 | 0.02 |
| 2014.04.18 | 0.08 | 2.35 | 0.08 | 0.15 | 0.17 | 0.05 | 0.00 |
|  |  |  |  |  |  |  |  |
| 2014.07.29 | 0.79 | 7.64 | 6.01 | 2.28 | 5.70 | 5.30 | 0.27 |
| 2014.07.30 | 37.13 | 9.57 | 5.72 | 0.72 | 5.85 | 1.41 | 0.03 |
| 2014.07.31 | 0.60 | 4.83 | 4.20 | 0.09 | 3.66 | 0.27 | 0.10 |
| 2014.08.03 | 2.69 | 27.56 | 7.83 | 0.26 | 12.78 | 4.48 | 0.68 |
| 2014.08.04 | 0.41 | 14.55 | 8.77 | 0.12 | 0.71 | 6.23 | 0.41 |
| 2014.08.05 | 27.58 | 13.34 | 3.94 | 0.86 | 2.88 | 0.74 | 0.20 |
| 2014.08.06 | 34.29 | 11.90 | 0.30 | 1.29 | 3.14 | 4.50 | 0.28 |
| 2014.08.07 | 24.67 | 17.05 | 1.44 | 0.97 | 1.69 | 0.68 | 0.19 |
| 2014.08.08 | 46.44 | 24.36 | 3.26 | 1.38 | 6.52 | 4.79 | 0.30 |
| 2014.08.09 | 0.15 | 59.15 | 0.62 | 4.46 | 4.25 | 0.70 | 0.68 |
| 2014.08.10 | 0.02 | 70.75 | 0.26 | 5.13 | 1.40 | 0.77 | 0.66 |
| 2014.08.11 | 0.01 | 66.04 | 9.02 | 6.35 | 5.16 | 0.94 | 0.54 |
| 2014.08.12 | 0.09 | 51.24 | 1.25 | 3.35 | 4.96 | 0.83 | 0.63 |
| 2014.08.13 | 0.10 | 93.77 | 1.87 | 13.56 | 13.98 | 1.45 | 1.23 |
| 2014.08.15 | 0.11 | 61.05 | 5.94 | 5.19 | 8.03 | 1.07 | 0.90 |
| 2014.08.16 | 0.02 | 87.05 | 1.31 | 9.02 | 15.44 | 1.33 | 0.90 |
| 2014.08.17 | 0.07 | 21.56 | 0.67 | 3.89 | 4.29 | 0.74 | 0.75 |
| 2014.08.18 | 0.30 | 4.61 | 0.07 | 0.38 | 0.34 | 0.01 | 0.07 |
| 2014.08.20 | 0.11 | 11.15 | 0.54 | 1.03 | 0.77 | 0.19 | 0.21 |
| 2014.08.21 | 0.13 | 94.93 | 6.74 | 7.55 | 9.74 | 2.24 | 1.96 |
| 2014.08.22 | 18.32 | 3.66 | 3.25 | 1.70 | 1.94 | 3.01 | 0.13 |
| 2014.08.23 | 0.19 | 113.28 | 2.90 | 13.13 | 28.08 | 3.36 | 3.74 |
| 2014.08.24 | 0.02 | 50.24 | 0.61 | 6.96 | 23.18 | 0.94 | 31.36 |
| 2014.08.25 | 22.25 | 9.60 | 2.13 | 17.71 | 2.17 | 4.03 | 0.12 |
| 2014.08.26 | 0.05 | 99.31 | 6.62 | 8.57 | 7.47 | 1.02 | 0.98 |
|  |  |  |  |  |  |  |  |
| 2013.10.20 | 3.92 | 50.98 | 15.56 | 1.33 | 4.46 | 0.66 | 0.05 |
| 2013.10.21 | 2.20 | 21.88 | 3.88 | 1.09 | 3.97 | 0.46 | 0.04 |
| 2013.10.22 | 2.08 | 16.32 | 4.30 | 0.79 | 4.23 | 0.15 | 0.05 |
| 2013.10.23 | 2.30 | 37.11 | 7.69 | 0.69 | 6.38 | 0.76 | 0.12 |
| 2013.10.24 | 1.72 | 5.80 | 0.46 | 0.09 | 0.44 | 0.09 | 0.05 |
| 2013.10.25 | 1.53 | 9.26 | 0.96 | 0.13 | 0.78 | 0.13 | 0.05 |
| 2013.10.26 | 0.75 | 17.70 | 1.16 | 0.33 | 1.39 | 0.14 | 0.03 |
| 2013.10.27 | 1.39 | 20.34 | 2.07 | 0.04 | 1.30 | 0.24 | 0.00 |
| 2013.10.28 | 1.20 | 16.93 | 3.26 | 0.93 | 2.88 | 0.29 | 0.07 |
| 2013.10.29 | 1.06 | 20.75 | 4.35 | 0.74 | 5.00 | 0.27 | 0.04 |
| 2013.10.30 | 1.26 | 18.52 | 2.07 | 0.30 | 3.53 | 0.21 | 0.03 |
| 2013.10.31 | 2.97 | 14.74 | 3.38 | 0.58 | 1.99 | 0.26 | 0.11 |
| 2013.11.1 | 2.57 | 14.97 | 4.41 | 0.73 | 3.83 | 0.35 | 0.05 |
| 2013.11.2 | 1.32 | 24.10 | 2.96 | 0.63 | 5.41 | 0.25 | 0.17 |
| 2013.11.3 | 2.47 | 17.24 | 3.05 | 0.57 | 2.38 | 0.26 | 0.12 |
| 2013.11.4 | 1.46 | 16.86 | 3.53 | 0.12 | 0.46 | 0.30 | 0.06 |
| 2013.11.5 | 2.36 | 16.78 | 2.58 | 0.27 | 1.66 | 0.38 | 0.01 |
| 2013.11.6 | 0.41 | 7.62 | 0.19 | 0.02 | 0.03 | 0.05 | 0.00 |
| 2013.11.7 | 2.01 | 1.22 | 0.23 | 0.07 | 0.45 | 1.05 | 0.05 |
| 2013.11.8 | 1.13 | 83.30 | 5.32 | 7.24 | 3.60 | 1.59 | 2.51 |
| 2013.11.9 | 1.62 | 64.39 | 3.89 | 3.37 | 3.44 | 0.62 | 0.91 |
| 2013.11.10 | 1.11 | 11.69 | 0.56 | 0.17 | 0.64 | 0.13 | 0.04 |
| 2013.11.11 | 1.71 | 9.94 | 0.93 | 0.10 | 0.42 | 0.11 | 0.04 |
| 2013.11.12 | 0.90 | 10.74 | 0.39 | 0.07 | 0.39 | 0.05 | 0.02 |
|  |  |  |  |  |  |  |  |
| 2013.12.22 | nd. | 21.49 | 0.13 | 0.04 | 3.05 | 0.14 | 0.21 |
| 2013.12.23 | nd. | 43.51 | 0.07 | 0.43 | 4.37 | 0.14 | 0.11 |
| 2013.12.24 | nd. | 38.54 | 0.29 | 0.21 | 2.90 | 0.15 | 0.18 |
| 2013.12.25 | nd. | 8.38 | 0.03 | 0.08 | 0.33 | 0.04 | 0.04 |
| 2013.12.26 | nd. | 24.66 | 0.01 | 0.03 | 0.73 | 0.09 | 0.02 |
| 2013.12.27 | nd. | 19.13 | 0.13 | 0.01 | 0.33 | 0.05 | 0.03 |
| 2013.12.28 | nd. | 8.65 | 0.00 | 0.21 | 0.02 | 0.04 | 0.01 |
| 2013.12.29 | nd. | 21.44 | 0.01 | 0.01 | 0.10 | 0.08 | 0.02 |
| 2013.12.30 | nd. | 6.91 | 0.08 | 0.01 | 0.05 | 0.08 | 0.04 |
| 2013.12.31 | nd. | 0.06 | 0.09 | 0.05 | 0.21 | 0.10 | 0.05 |
| 2014.01.01 | nd. | 22.05 | 0.46 | 0.02 | 1.54 | 0.12 | 0.11 |
| 2014.01.02 | nd. | 2.21 | 0.47 | 0.11 | 2.67 | 0.22 | 0.05 |
| 2014.01.03 | nd. | 27.03 | 0.76 | 0.28 | 5.02 | 0.21 | 0.05 |
| 2014.01.04 | nd. | 0.64 | 0.65 | 0.10 | 3.31 | 0.11 | 0.01 |
| 2014.01.05 | nd. | 6.83 | 0.05 | 0.05 | 2.66 | 0.04 | 0.18 |
| 2014.01.06 | nd. | 8.77 | 0.33 | 0.51 | 1.96 | 0.16 | 0.10 |
| 2014.01.07 | nd. | 13.05 | 0.55 | 1.01 | 2.73 | 0.13 | 0.07 |
| 2014.01.09 | nd. | 45.78 | 0.10 | 0.19 | 0.76 | 0.43 | 0.11 |
| 2014.01.10 | nd. | 32.62 | 0.14 | 0.22 | 5.25 | 0.30 | 0.29 |
| 2014.01.11 | nd. | 10.67 | 0.16 | 0.52 | 2.20 | 0.04 | 0.11 |
| 2014.01.12 | nd. | 27.18 | 0.21 | 1.07 | 2.37 | 0.15 | 0.05 |
| 2014.01.13 | nd. | 1.72 | 0.03 | 0.17 | 0.11 | 0.04 | 0.11 |
| 2014.01.14 | nd. | 1.06 | 0.13 | 0.07 | 0.11 | 0.01 | 0.10 |

Table 6. Concentrations of ICES-PCBs in particle samples (pg/m3).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | PCB 31+28 | PCB 52 | PCB 101 | PCB 118 | PCB 153 | PCB 138+158 | PCB 180 |
| 2014.03.27 | 2.43 | 0.88 | 0.19 | 0.78 | 0.28 | 0.39 | 0.09 |
| 2014.03.28 | 0.76 | 1.02 | 0.10 | 1.66 | 0.36 | 0.76 | 0.02 |
| 2014.03.29 | 6.70 | 1.39 | 0.48 | 0.20 | 0.39 | 0.18 | 0.25 |
| 2014.03.30 | 0.75 | 0.49 | 0.57 | 0.79 | 0.15 | 1.37 | 0.06 |
| 2014.03.31 | 2.07 | 1.64 | 0.19 | 3.02 | 0.26 | 0.50 | 0.19 |
| 2014.04.01 | 1.34 | 1.48 | 0.12 | 1.20 | 0.26 | 0.38 | 0.11 |
| 2014.04.02 | 0.54 | 0.58 | 0.16 | 0.22 | 0.15 | 0.13 | 0.07 |
| 2014.04.03 | 1.69 | 1.26 | 0.35 | 2.49 | 0.56 | 0.14 | 0.04 |
| 2014.04.04 | 1.55 | 1.45 | 0.98 | 2.84 | 1.15 | 0.17 | 0.17 |
| 2014.04.05 | 8.14 | 1.88 | 0.69 | 9.41 | 1.12 | 0.35 | 0.35 |
| 2014.04.06 | 1.83 | 3.33 | 0.36 | 4.53 | 0.79 | 0.16 | 0.10 |
| 2014.04.07 | 4.66 | 0.75 | 0.12 | 2.44 | 0.59 | 0.26 | 0.13 |
| 2014.04.08 | 1.47 | 1.27 | 0.09 | 0.58 | 0.33 | 0.23 | 0.07 |
| 2014.04.09 | 1.27 | 3.13 | 0.40 | 4.36 | 1.49 | 0.13 | 0.04 |
| 2014.04.10 | 2.05 | 2.45 | 0.14 | 7.72 | 1.62 | 0.37 | 0.09 |
| 2014.04.11 | 0.75 | 1.37 | 0.96 | 2.23 | 1.77 | 0.53 | 0.15 |
| 2014.04.12 | 3.28 | 2.92 | 3.00 | 3.01 | 1.84 | 0.50 | 0.14 |
| 2014.04.13 | 3.26 | 2.61 | 2.08 | 5.13 | 0.33 | 1.02 | 0.18 |
| 2014.04.14 | 3.95 | 10.16 | 4.02 | 14.53 | 0.64 | 0.38 | 0.39 |
| 2014.04.15 | 4.36 | 3.04 | 0.10 | 3.64 | 0.40 | 0.49 | 0.08 |
| 2014.04.16 | 3.21 | 3.01 | 1.43 | 7.35 | 0.54 | 0.12 | 0.22 |
| 2014.04.17 | 3.27 | 2.66 | 1.46 | 8.03 | 0.19 | 0.40 | 0.26 |
| 2014.04.18 | 5.78 | 2.07 | 0.61 | 8.03 | 0.35 | 0.06 | 0.36 |
|  |  |  |  |  |  |  |  |
| 2014.07.29 | 1.54 | 1.56 | 0.63 | 2.96 | 0.99 | 0.25 | 0.04 |
| 2014.07.30 | nd. | nd. | nd. | nd. | nd. | nd. | nd.. |
| 2014.07.31 | 0.30 | 1.21 | 0.16 | 0.77 | 0.82 | 0.01 | 0.04 |
| 2014.08.03 | 1.89 | 2.83 | 0.98 | 4.87 | 0.75 | 0.43 | 0.10 |
| 2014.08.04 | 0.29 | 0.92 | 0.03 | 0.48 | 0.96 | 0.11 | 0.13 |
| 2014.08.05 | 3.93 | 0.87 | 0.09 | 0.09 | 0.25 | 0.17 | 0.06 |
| 2014.08.06 | 0.36 | 1.55 | 0.51 | 0.81 | 0.33 | 0.27 | 0.09 |
| 2014.08.07 | 5.74 | 1.36 | 0.04 | 0.75 | 1.03 | 0.32 | 0.12 |
| 2014.08.08 | 4.15 | 1.09 | 0.04 | 0.39 | 0.59 | 0.23 | 0.12 |
| 2014.08.09 | 3.00 | 1.67 | 0.14 | 0.33 | 0.12 | 0.30 | 0.06 |
| 2014.08.10 | 4.89 | 1.07 | 0.34 | 0.46 | 0.21 | 0.27 | 0.07 |
| 2014.08.11 | 5.17 | 1.99 | 0.06 | 0.42 | 0.11 | 0.22 | 0.17 |
| 2014.08.12 | 5.21 | 1.85 | 0.10 | 0.35 | 0.15 | 0.35 | 0.05 |
| 2014.08.13 | 0.01 | 0.26 | 2.36 | 0.01 | 0.50 | 0.02 | 0.17 |
| 2014.08.15 | 3.66 | 2.35 | 0.13 | 0.22 | 0.31 | 0.23 | 0.10 |
| 2014.08.16 | 4.06 | 1.60 | 0.09 | 0.24 | 0.17 | 0.29 | 0.04 |
| 2014.08.17 | 4.53 | 1.06 | 0.14 | 0.21 | 0.06 | 0.30 | 0.05 |
| 2014.08.18 | 4.08 | 0.95 | 0.13 | 0.14 | 0.05 | 0.20 | 0.07 |
| 2014.08.20 | 4.67 | 1.27 | 0.05 | 0.12 | 0.31 | 0.22 | 0.13 |
| 2014.08.21 | 0.24 | 1.68 | 0.05 | 0.10 | 0.10 | 0.20 | 0.30 |
| 2014.08.22 | 3.68 | 1.30 | 0.10 | 0.09 | 0.15 | 0.21 | 0.03 |
| 2014.08.23 | 0.27 | 1.52 | 0.11 | 0.03 | 0.09 | 0.25 | 0.03 |
| 2014.08.24 | 0.70 | 1.69 | 0.01 | 0.02 | 0.04 | 0.19 | 0.26 |
| 2014.08.25 | 0.84 | 1.51 | 0.02 | 0.02 | 0.16 | 0.16 | 0.12 |
| 2014.08.26 | 0.05 | 1.43 | 0.01 | 0.03 | 0.08 | 0.17 | 0.04 |
|  |  |  |  |  |  |  |  |
| 2013.10.20 | 7.57 | 1.82 | 0.11 | 0.08 | 1.72 | 0.34 | 0.32 |
| 2013.10.21 | 3.39 | 0.70 | 0.11 | 0.02 | 1.37 | 0.34 | 0.23 |
| 2013.10.22 | 2.58 | 1.66 | 0.05 | 0.14 | 1.33 | 0.33 | 0.20 |
| 2013.10.23 | 1.18 | 2.64 | 0.09 | 0.11 | 1.25 | 0.27 | 0.08 |
| 2013.10.24 | 1.14 | 1.24 | 0.04 | 0.17 | 1.50 | 0.24 | 0.06 |
| 2013.10.25 | 1.11 | 1.18 | 0.04 | 0.04 | 1.04 | 0.16 | 0.08 |
| 2013.10.26 | 0.76 | 1.68 | 0.09 | 0.16 | 2.16 | 0.21 | 0.05 |
| 2013.10.27 | 1.88 | 1.57 | 0.19 | 0.13 | 2.19 | 0.21 | 0.07 |
| 2013.10.28 | 1.84 | 1.62 | 0.13 | 0.11 | 0.66 | 0.18 | 0.13 |
| 2013.10.29 | 1.62 | 0.70 | 0.03 | 0.17 | 0.58 | 0.32 | 0.18 |
| 2013.10.30 | 2.58 | 1.57 | 0.04 | 0.09 | 0.75 | 0.23 | 0.12 |
| 2013.10.31 | 1.27 | 0.81 | 0.15 | 0.15 | 0.55 | 0.27 | 0.07 |
| 2013.11.1 | 0.43 | 1.13 | 0.06 | 0.19 | 0.41 | 0.16 | 0.06 |
| 2013.11.2 | 1.14 | 1.39 | 0.11 | 0.19 | 0.46 | 0.20 | 0.06 |
| 2013.11.3 | 3.49 | 1.55 | 0.01 | 0.13 | 0.53 | 0.23 | 0.09 |
| 2013.11.4 | 2.94 | 1.04 | 0.29 | 0.10 | 0.89 | 0.19 | 0.07 |
| 2013.11.5 | 2.69 | 1.66 | 0.01 | 0.04 | 0.71 | 0.26 | 0.02 |
| 2013.11.6 | 7.24 | 2.25 | 0.08 | 0.20 | 0.47 | 0.19 | 0.29 |
| 2013.11.7 | 8.49 | 1.48 | 0.04 | 0.08 | 0.32 | 0.05 | 0.37 |
| 2013.11.8 | 1.88 | 1.38 | 0.06 | 0.15 | 0.26 | 0.28 | 0.05 |
| 2013.11.9 | 1.65 | 0.96 | 0.04 | 0.06 | 0.28 | 0.22 | 0.02 |
| 2013.11.10 | 2.43 | 1.56 | 0.10 | 0.17 | 0.84 | 0.19 | 0.04 |
| 2013.11.11 | 2.33 | 1.05 | 0.02 | 0.12 | 0.67 | 0.20 | 0.01 |
| 2013.11.12 | 0.09 | 1.23 | 0.02 | 0.11 | 0.45 | 0.22 | 0.07 |
|  |  |  |  |  |  |  |  |
| 2013.12.22 | 14.54 | 3.35 | 0.04 | 0.31 | 0.39 | 0.14 | 0.17 |
| 2013.12.23 | 25.17 | 3.34 | 0.00 | 0.10 | 0.47 | 0.03 | 0.29 |
| 2013.12.24 | 9.32 | 4.43 | 0.04 | 0.03 | 0.32 | 0.04 | 1.23 |
| 2013.12.25 | 26.32 | 9.39 | 4.48 | 0.16 | 0.73 | 0.30 | 1.13 |
| 2013.12.26 | 2.83 | 2.08 | 0.12 | 0.01 | 0.38 | 0.14 | 0.62 |
| 2013.12.27 | 10.16 | 4.88 | 0.20 | 0.12 | 0.41 | 0.11 | 0.89 |
| 2013.12.28 | 5.57 | 5.57 | 2.05 | 1.24 | 0.28 | 0.24 | 1.86 |
| 2013.12.29 | 4.11 | 8.02 | 0.46 | 0.06 | 0.39 | 0.17 | 5.95 |
| 2013.12.30 | 5.23 | 0.81 | 2.15 | 0.51 | 0.33 | 0.16 | 2.78 |
| 2013.12.31 | 6.62 | 0.67 | 1.87 | 0.04 | 0.26 | 0.14 | 2.76 |
| 2014.01.01 | 3.90 | 0.94 | 0.33 | 0.03 | 0.50 | 0.04 | 1.05 |
| 2014.01.02 | 16.54 | 1.77 | 0.05 | 0.02 | 0.33 | 0.12 | 0.91 |
| 2014.01.03 | 17.61 | 1.76 | 0.00 | 0.02 | 0.45 | 0.07 | 0.69 |
| 2014.01.04 | 15.47 | 3.29 | 0.01 | 0.04 | 0.11 | 0.07 | 0.27 |
| 2014.01.05 | 35.64 | 4.09 | 0.86 | 0.43 | 0.81 | 0.22 | 0.62 |
| 2014.01.06 | 10.58 | 1.99 | 0.02 | 0.06 | 0.99 | 0.18 | 0.55 |
| 2014.01.07 | 9.96 | 1.98 | 0.94 | 0.05 | 6.83 | 0.01 | 0.13 |
| 2014.01.09 | 13.94 | 5.45 | 0.72 | 0.01 | 0.03 | 0.11 | 0.90 |
| 2014.01.10 | 23.37 | 2.33 | 1.10 | 0.04 | 0.72 | 0.08 | 0.21 |
| 2014.01.11 | 4.89 | 1.17 | 0.56 | 0.01 | 0.44 | 0.09 | 0.32 |
| 2014.01.12 | 12.60 | 3.29 | 1.15 | 0.03 | 0.24 | 0.08 | 0.61 |
| 2014.01.13 | 15.69 | 5.05 | 1.56 | 0.12 | 0.17 | 0.15 | 0.20 |
| 2014.01.14 | 22.19 | 4.16 | 1.02 | 0.13 | 0.30 | 0.24 | 0.05 |

Table 7. Concentrations of selected PBDEs in dissolved phase from surface seawater (pg/L).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Cw pg/L | PCB 28+31 | PCB 52 | PCB 101 | PCB 118 | PCB 153 | PCB 138+158 | PCB 180 |
| 2013.10.20 | 9.49 | 49.77 | 31.31 | 10.70 | 35.89 | 1.87 | 6.84 |
| 2013.10.22 | 0.87 | 46.19 | 27.26 | 15.32 | 31.21 | 4.90 | 3.42 |
| 2013.10.24 | 1.56 | 62.87 | 36.27 | 10.25 | 36.58 | 7.00 | 3.41 |
| 2013.10.27 | 2.58 | 89.86 | 16.30 | 12.16 | 44.17 | 10.49 | 8.96 |
| 2013.10.29 | 2.02 | 61.85 | 27.47 | 23.18 | 25.70 | 26.05 | 8.79 |
| 2013.12.22 | 18.03 | 12.04 | 6.73 | 58.86 | 68.50 | 2.34 | 0.73 |
| 2013.12.24 | 162.51 | 32.60 | 22.37 | 226.25 | nd. | 6.60 | 4.87 |
| 2013.12.26 | 12.39 | 36.32 | 5.09 | 108.53 | nd. | 2.36 | 4.00 |
| 2013.12.29 | 8.19 | 48.41 | 16.25 | 136.62 | nd. | 5.57 | 7.04 |
| 2014.03.28 | 1.96 | 64.89 | 6.05 | 13.91 | 26.18 | 5.40 | 3.29 |
| 2014.03.30 | 1.92 | 67.51 | 32.69 | 15.77 | 28.97 | 1.94 | 4.45 |
| 2014.04.01 | 0.08 | 60.32 | 17.44 | 16.25 | 18.93 | 8.61 | 4.42 |
| 2014.04.03 | 20.52 | 35.19 | 24.65 | 2.16 | 11.74 | 2.24 | 2.14 |
| 2014.04.05 | 28.71 | 43.35 | 2.71 | 1.16 | 19.25 | 12.91 | 9.76 |
| 2014.07.29 | 21.80 | 41.48 | 3.22 | 123.98 | 0.65 | 7.27 | 4.72 |
| 2014.07.30 | 340.46 | 60.36 | 19.70 | 137.79 | 0.77 | 16.32 | 6.43 |
| 2014.07.31 | 609.78 | 10.25 | 167.41 | 102.92 | 46.55 | 7.00 | 12.55 |
| 2014.08.03 | 208.17 | 28.09 | 2.44 | 0.97 | 4.72 | 3.38 | 6.67 |
| 2014.08.05 | 75.21 | 28.81 | 0.37 | 4.81 | 3.50 | 3.39 | 9.01 |
| 2014.08.09 | 234.76 | 7.60 | 8.17 | 0.56 | 0.61 | 7.04 | 5.03 |

Table 8. Median concentrations of PBDEs in rainwater samples (pg/L).

|  |  |  |  |
| --- | --- | --- | --- |
|  | min | max | median |
| PCB31/28 | 0.40 | 2756.10 | 62.05 |
| PCB52 | nd. | 1009.60 | 105.25 |
| PCB101 | 0.30 | 167.50 | 29.55 |
| PCB118 | nd. | 1435.70 | 34.35 |
| PCB153 | nd. | 1315.40 | 49.55 |
| PCB 138/158 | 0.20 | 386.00 | 23.60 |
| PCB180 | 0.50 | 509.40 | 17.75 |

Table 9. Ambient parameters corresponding to parallel air-water samples.

|  |  |  |  |
| --- | --- | --- | --- |
|  | U10 m/s | T/K | Salt concentration (Cs)/mol L–1 |
| 2013.10.20 | 8.3 | 293.1 | 0.41 |
| 2013.10.22 | 8 | 291.8 | 0.41 |
| 2013.10.24 | 13.3 | 292 | 0.41 |
| 2013.10.27 | 5.3 | 289.5 | 0.41 |
| 2013.10.29 | 3.2 | 292.5 | 0.41 |
| 2013.12.22 | 8.3 | 279.6 | 0.42 |
| 2013.12.24 | 8.1 | 274 | 0.42 |
| 2013.12.26 | 8.7 | 280 | 0.42 |
| 2013.12.29 | 4.5 | 280.6 | 0.42 |
| 2014.01.01 | 4.4 | 278 | 0.42 |
| 2014.03.28 | 11.1 | 286.1 | 0.39 |
| 2014.03.30 | 5.5 | 285.3 | 0.39 |
| 2014.04.01 | 2.3 | 285 | 0.39 |
| 2014.04.03 | 5 | 285.2 | 0.39 |
| 2014.04.05 | 8.3 | 284.8 | 0.39 |
| 2014.07.29 | 6.2 | 300.3 | 0.32 |
| 2014.07.30 | 5.2 | 300.6 | 0.32 |
| 2014.07.31 | 6.3 | 299.6 | 0.32 |
| 2014.08.03 | 5.2 | 299.6 | 0.32 |
| 2014.08.05 | 7.5 | 300.6 | 0.32 |
| 2014.08.09 | 3.1 | 299 | 0.32 |