284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN081424 SAS No.: BN081424 SDG No.: BN081424

Instrument ID: BNA_N Calibration Date/Time: 8/13/2024 12 20:48

Lab File ID: BN033372.D Init. Calib. Date(s):

EPA Sample No.: SICV216 Init. Calib. Time(s):

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRFICV | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 1,4-Dioxane | 0.514 | 0.450 | 0.010 | -12.454 | 40.0 |
| Benzaldehyde | 0.953 | 1.071 | 0.010 | 12.3395 | 40.0 |
| Pyridine | 1.529 | 1.296 | 0.010 | -15.2442 | 40.0 |
| Phenol | 1.928 | 1.798 | 0.080 | -6.7294 | 20.0 |
| Bis(2-Chloroethyl)ether | 1.535 | 1.447 | 0.100 | -5.7601 | 20.0 |
| 2-Chlorophenol | 1.443 | 1.381 | 0.200 | -4.2812 | 20.0 |
| 2-Methylphenol | 1.458 | 1.384 | 0.010 | -5.0974 | 20.0 |
| 2,2-oxybis(1-Chloropropane) | 2.492 | 2.345 | 0.010 | -5.9069 | 40.0 |
| Acetophenone | 2.464 | 2.513 | 0.060 | 2.0151 | 20.0 |
| 4-Methylphenol | 1.632 | 1.604 | 0.010 | -1.7517 | 20.0 |
| N-Nitroso-di-n-propylamine | 1.259 | 1.298 | 0.050 | 3.0756 | 30.0 |
| Hexachloroethane | 0.603 | 0.565 | 0.100 | -6.3097 | 20.0 |
| Nitrobenzene | 0.383 | 0.365 | 0.050 | -4.6141 | 25.0 |
| Isophorone | 0.777 | 0.763 | 0.050 | -1.7089 | 25.0 |
| 2-Nitrophenol | 0.156 | 0.164 | 0.050 | 4.8101 | 25.0 |
| 2,4-Dimethylphenol | 0.370 | 0.318 | 0.050 | -14.1055 | 25.0 |
| Bis(2-Chloroethoxy)methane | 0.481 | 0.458 | 0.050 | -4.8783 | 20.0 |
| 2,4-Dichlorophenol | 0.309 | 0.303 | 0.060 | -1.9052 | 20.0 |
| Naphthalene | 1.115 | 1.046 | 0.200 | -6.2314 | 20.0 |
| 4-Chloroaniline | 0.487 | 0.479 | 0.010 | -1.5847 | 40.0 |
| Hexachlorobutadiene | 0.193 | 0.182 | 0.040 | -5.6637 | 30.0 |
| Caprolactam | 0.123 | 0.133 | 0.010 | 8.083 | 40.0 |
| 4-Chloro-3-methylphenol | 0.355 | 0.368 | 0.040 | 3.6871 | 25.0 |
| 1-Methylnaphthalene | 0.793 | 0.735 | 0.100 | -7.3588 | 20.0 |
| 2-Methylnaphthalene | 0.785 | 0.778 | 0.100 | -0.8843 | 20.0 |
| Hexachlorocyclopentadiene | 0.317 | 0.276 | 0.010 | -13.168 | 40.0 |
| 2,4,6-Trichlorophenol | 0.351 | 0.352 | 0.090 | 0.1513 | 25.0 |
| 2,4,5-Trichlorophenol | 0.396 | 0.396 | 0.100 | 0.0125 | 25.0 |
| 1,1-Biphenyl | 1.508 | 1.417 | 0.200 | -6.0803 | 20.0 |
| 2-Chloronaphthalene | 1.169 | 1.081 | 0.300 | -7.5747 | 20.0 |
| 2-Nitroaniline | 0.336 | 0.349 | 0.050 | 3.7597 | 40.0 |
| Dimethylphthalate | 1.528 | 1.488 | 0.300 | -2.5862 | 20.0 |
| 2,6-Dinitrotoluene | 0.278 | 0.313 | 0.080 | 12.6127 | 30.0 |
| Acenaphthylene | 1.861 | 1.813 | 0.400 | -2.5695 | 20.0 |
| 3-Nitroaniline | 0.314 | 0.361 | 0.010 | 14.8553 | 40.0 |
| Acenaphthene | 1.315 | 1.235 | 0.200 | -6.0733 | 20.0 |
| 2,4-Dinitrophenol | 0.137 | 0.130 | 0.010 | -5.5656 | 40.0 |
| 4-Nitrophenol | 0.230 | 0.223 | 0.010 | -3.2914 | 40.0 |
| Dibenzofuran | 1.836 | 1.743 | 0.300 | -5.0852 | 20.0 |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN081424 SAS No.: BN081424 SDG No.: BN081424

Instrument ID: BNA_N Calibration Date/Time: 8/13/2024 12 20:48

Lab File ID: BN033372.D Init. Calib. Date(s):

EPA Sample No.: SICV216 Init. Calib. Time(s):

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRFICV | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | 0.417 | 0.442 | 0.070 | 5.9221 | 30.0 |
| Diethylphthalate | 1.594 | 1.564 | 0.300 | -1.9124 | 20.0 |
| Fluorene | 1.511 | 1.427 | 0.200 | -5.5476 | 20.0 |
| 4-Chlorophenyl-phenylether | 0.725 | 0.684 | 0.100 | -5.7138 | 20.0 |
| 4-Nitroaniline | 0.324 | 0.384 | 0.010 | 18.6579 | 40.0 |
| 4,6-Dinitro-2-methylphenol | 0.106 | 0.103 | 0.010 | -3.5297 | 40.0 |
| N-Nitrosodiphenylamine | 0.601 | 0.566 | 0.050 | -5.9296 | 20.0 |
| 1,2,4,5-Tetrachlorobenzene | 0.573 | 0.527 | 0.100 | -8.0526 | 20.0 |
| 4-Bromophenyl-phenylether | 0.204 | 0.194 | 0.070 | -4.8219 | 20.0 |
| Hexachlorobenzene | 0.234 | 0.222 | 0.050 | -5.0137 | 25.0 |
| Atrazine | 0.224 | 0.207 | 0.010 | -7.7143 | 25.0 |
| Pentachlorophenol | 0.147 | 0.141 | 0.010 | -4.2717 | 40.0 |
| Phenanthrene | 1.118 | 1.042 | 0.200 | -6.7967 | 20.0 |
| Pentachlorobenzene | 0.278 | 0.245 | 0.050 | -11.8082 | 20.0 |
| Anthracene | 1.139 | 1.064 | 0.200 | -6.5679 | 20.0 |
| 1,2,3,4-Tetrachlorobenzene | 0.270 | 0.233 | 0.050 | -13.6587 | 20.0 |
| Carbazole | 1.050 | 1.014 | 0.050 | -3.4582 | 40.0 |
| Di-n-butylphthalate | 1.312 | 1.275 | 0.500 | -2.8241 | 25.0 |
| Fluoranthene | 1.291 | 1.241 | 0.400 | -3.8748 | 25.0 |
| Pyrene | 1.400 | 1.347 | 0.400 | -3.7753 | 25.0 |
| Butylbenzylphthalate | 0.561 | 0.600 | 0.100 | 6.9753 | 40.0 |
| 3,3-Dichlorobenzidine | 0.456 | 0.509 | 0.010 | 11.6469 | 40.0 |
| Benzo(a)anthracene | 1.439 | 1.361 | 0.300 | -5.4579 | 30.0 |
| Chrysene | 1.353 | 1.279 | 0.200 | -5.5105 | 30.0 |
| Bis(2-ethylhexyl)phthalate | 0.910 | 0.950 | 0.200 | 4.4234 | 40.0 |
| Di-n-octyl phthalate | 1.288 | 1.342 | 0.010 | 4.171 | 40.0 |
| Benzo(b)fluoranthene | 1.243 | 1.177 | 0.200 | -5.3171 | 25.0 |
| Benzo(k)fluoranthene | 1.234 | 1.160 | 0.200 | -6.0067 | 25.0 |
| Benzo(a)pyrene | 1.178 | 1.158 | 0.200 | -1.7406 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.462 | 1.419 | 0.200 | -2.9371 | 25.0 |
| Dibenzo(a,h)anthracene | 1.198 | 1.175 | 0.200 | -1.9093 | 30.0 |
| Benzo(g,h,i)perylene | 1.124 | 1.062 | 0.200 | -5.4851 | 30.0 |
| 2,3,4,6-Tetrachlorophenol | 0.322 | 0.365 | 0.040 | 13.5598 | 20.0 |
| 1,4-Dioxane-d8 | 0.490 | 0.414 | 0.010 | -15.5026 | 25.0 |
| Pyridine-d5 | 1.488 | 1.372 | 0.010 | -7.7358 | 40.0 |
| Phenol-d5 | 1.834 | 1.757 | 0.010 | -4.2241 | 25.0 |
| Bis-(2-Chloroethyl)ether-d8 | 1.176 | 1.235 | 0.050 | 4.9682 | 25.0 |
| 2-Chlorophenol-d4 | 1.383 | 1.382 | 0.200 | -0.0911 | 20.0 |
| 4-Methylphenol-d8 | 1.517 | 1.531 | 0.010 | 0.9472 | 20.0 |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN081424 SAS No.: BN081424 SDG No.: BN081424

Instrument ID: BNA_N Calibration Date/Time: 8/13/2024 12 20:48

Lab File ID: BN033372.D Init. Calib. Date(s):

EPA Sample No.: SICV216 Init. Calib. Time(s):

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRFICV | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Nitrobenzene-d5 | 0.152 | 0.154 | 0.050 | 1.4674 | 20.0 |
| 2-Nitrophenol-d4 | 0.134 | 0.148 | 0.050 | 10.5074 | 30.0 |
| 2,4-Dichlorophenol-d3 | 0.298 | 0.318 | 0.060 | 6.6253 | 20.0 |
| 4-Chloroaniline-d4 | 0.497 | 0.488 | 0.010 | -1.8955 | 40.0 |
| Dimethylphthalate-d6 | 1.522 | 1.532 | 0.300 | 0.6407 | 20.0 |
| Acenaphthylene-d8 | 1.704 | 1.700 | 0.400 | -0.2625 | 20.0 |
| 4-Nitrophenol-d4 | 0.294 | 0.307 | 0.010 | 4.4004 | 40.0 |
| Fluorene-d10 | 1.305 | 1.284 | 0.100 | -1.668 | 20.0 |
| 4,6-Dinitro-2-methylphenol-d2 | 0.094 | 0.092 | 0.010 | -2.834 | 40.0 |
| Anthracene-d10 | 0.948 | 0.909 | 0.300 | -4.0984 | 20.0 |
| Pyrene-d10 | 1.104 | 1.101 | 0.300 | -0.3102 | 25.0 |
| Benzo(a)pyrene-d12 | 1.040 | 1.031 | 0.010 | -0.8872 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | | Date Collected: | |
| Project: | | Date Received: | |
| Client Sample ID: | | SDG No.: | |
| Lab Sample ID: | | Matrix: | |
| Analytical Method: | | | |
| Sample Wt/Vol: | Units: | Final Vol: | |
| Soil Aliquot Vol: | uL | Test: | |
| Extraction Type : | Decanted : | Level : | |
| Injection Volume : | GPC Factor : | GPC Cleanup : | PH : |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

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# Hit Summary Sheet
**SW-846**

**SDG No.:** BN081424

**Client:**

| Sample ID | Client ID | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|
| **Client ID :** | | | | | | | |

**Total Concentration:**

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN081424 SAS No.: BN081424 SDG No.: BN081424

Instrument ID: Calibration Date(s): 8/13/2024

Calibration Time(s): 16:52

LAB FILE ID: RRFAL1 = BN033366.D RRFAL2 = BN033367.D RRFAL3 = BN033368.D
RRFAL4 = BN033369.D RRFAL5 = BN033370.D RRFAL6 = BN033371.D

| COMPOUND | RRFAL1 | RRFAL2 | RRFAL3 | RRFAL4 | RRFAL5 | RRFAL6 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.480 | 0.539 | 0.554 | 0.509 | 0.490 | | 0.514 | 6.1 |
| Benzaldehyde | | 1.130 | 1.191 | 1.032 | 0.770 | 0.643 | 0.953 | 24.8 |
| Pyridine | | 1.595 | 1.570 | 1.489 | 1.533 | 1.459 | 1.529 | 3.7 |
| Hexachloroethane | 0.555 | 0.626 | 0.624 | 0.599 | 0.610 | | 0.603 | 4.8 |
| Nitrobenzene | 0.342 | 0.399 | 0.392 | 0.393 | 0.388 | | 0.383 | 6.0 |
| Isophorone | 0.691 | 0.818 | 0.794 | 0.796 | 0.784 | | 0.777 | 6.4 |
| 2-Nitrophenol | 0.118 | 0.148 | 0.160 | 0.174 | 0.183 | | 0.156 | 16.2 |
| 2,4-Dimethylphenol | 0.339 | 0.383 | 0.380 | 0.376 | 0.373 | | 0.370 | 4.8 |
| Bis(2-Chloroethoxy)methane | 0.459 | 0.512 | 0.485 | 0.481 | 0.468 | | 0.481 | 4.2 |
| 2,4-Dichlorophenol | 0.271 | 0.314 | 0.315 | 0.325 | 0.319 | | 0.309 | 7.0 |
| Naphthalene | 1.064 | 1.205 | 1.122 | 1.109 | 1.075 | | 1.115 | 5.0 |
| 4-Chloroaniline | | 0.518 | 0.493 | 0.482 | 0.483 | 0.457 | 0.487 | 4.5 |
| Hexachlorobutadiene | 0.180 | 0.205 | 0.199 | 0.193 | 0.188 | | 0.193 | 4.9 |
| Phenol | | 1.926 | 1.945 | 1.883 | 1.966 | 1.918 | 1.928 | 1.6 |
| Caprolactam | | 0.119 | 0.123 | 0.125 | 0.124 | 0.126 | 0.123 | 2.1 |
| 4-Chloro-3-methylphenol | 0.310 | 0.362 | 0.367 | 0.370 | 0.365 | | 0.355 | 7.1 |
| 1-Methylnaphthalene | 0.750 | 0.864 | 0.802 | 0.787 | 0.764 | | 0.793 | 5.6 |
| 2-Methylnaphthalene | 0.739 | 0.842 | 0.794 | 0.790 | 0.760 | | 0.785 | 5.0 |
| Hexachlorocyclopentadiene | | 0.290 | 0.301 | 0.334 | 0.332 | 0.329 | 0.317 | 6.4 |
| 2,4,6-Trichlorophenol | 0.290 | 0.349 | 0.351 | 0.381 | 0.387 | | 0.351 | 11.0 |
| 2,4,5-Trichlorophenol | 0.320 | 0.391 | 0.402 | 0.432 | 0.434 | | 0.396 | 11.7 |
| 1,1-Biphenyl | 1.453 | 1.640 | 1.496 | 1.513 | 1.440 | | 1.508 | 5.3 |
| 2-Chloronaphthalene | 1.103 | 1.257 | 1.152 | 1.175 | 1.160 | | 1.169 | 4.8 |
| 2-Nitroaniline | 0.266 | 0.325 | 0.342 | 0.370 | 0.377 | | 0.336 | 13.2 |
| Bis(2-Chloroethyl)ether | | 1.616 | 1.592 | 1.513 | 1.526 | 1.427 | 1.535 | 4.8 |
| Dimethylphthalate | 1.457 | 1.648 | 1.514 | 1.530 | 1.491 | | 1.528 | 4.8 |
| 2,6-Dinitrotoluene | 0.211 | 0.269 | 0.279 | 0.312 | 0.317 | | 0.278 | 15.4 |
| Acenaphthylene | 1.739 | 2.016 | 1.842 | 1.883 | 1.825 | | 1.861 | 5.5 |
| 3-Nitroaniline | | 0.296 | 0.317 | 0.337 | 0.311 | 0.312 | 0.314 | 4.7 |
| Acenaphthene | 1.245 | 1.436 | 1.301 | 1.324 | 1.269 | | 1.315 | 5.6 |
| 2,4-Dinitrophenol | | 0.091 | 0.108 | 0.136 | 0.159 | 0.191 | 0.137 | 29.1 |
| 4-Nitrophenol | | 0.236 | 0.225 | 0.233 | 0.234 | 0.224 | 0.230 | 2.4 |
| Dibenzofuran | 1.775 | 1.996 | 1.815 | 1.829 | 1.764 | | 1.836 | 5.1 |
| 2,4-Dinitrotoluene | 0.325 | 0.410 | 0.421 | 0.459 | 0.472 | | 0.417 | 13.9 |
| Diethylphthalate | 1.477 | 1.708 | 1.599 | 1.612 | 1.574 | | 1.594 | 5.2 |
| 2-Chlorophenol | 1.268 | 1.482 | 1.509 | 1.447 | 1.508 | | 1.443 | 7.0 |

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN081424 SAS No.: BN081424 SDG No.: BN081424

Instrument ID: Calibration Date(s): 8/13/2024

Calibration Time(s): 16:52

LAB FILE ID: RRFAL1 = BN033366.D RRFAL2 = BN033367.D RRFAL3 = BN033368.D
RRFAL4 = BN033369.D RRFAL5 = BN033370.D RRFAL6 = BN033371.D

| COMPOUND | RRFAL1 | RRFAL2 | RRFAL3 | RRFAL4 | RRFAL5 | RRFAL6 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Fluorene | 1.478 | 1.662 | 1.520 | 1.487 | 1.408 | | 1.511 | 6.2 |
| 4-Chlorophenyl-phenylether | 0.720 | 0.791 | 0.708 | 0.718 | 0.688 | | 0.725 | 5.4 |
| 4-Nitroaniline | | 0.331 | 0.348 | 0.349 | 0.306 | 0.284 | 0.324 | 8.6 |
| 4,6-Dinitro-2-methylphenol | | 0.079 | 0.093 | 0.110 | 0.122 | 0.128 | 0.106 | 19.2 |
| N-Nitrosodiphenylamine | 0.557 | 0.649 | 0.612 | 0.606 | 0.583 | | 0.601 | 5.7 |
| 1,2,4,5-Tetrachlorobenzene | 0.530 | 0.610 | 0.575 | 0.580 | 0.569 | | 0.573 | 5.0 |
| 4-Bromophenyl-phenylether | 0.184 | 0.221 | 0.207 | 0.207 | 0.202 | | 0.204 | 6.4 |
| Hexachlorobenzene | 0.217 | 0.253 | 0.228 | 0.237 | 0.234 | | 0.234 | 5.6 |
| Atrazine | | 0.230 | 0.231 | 0.225 | 0.222 | 0.211 | 0.224 | 3.7 |
| Pentachlorophenol | | 0.125 | 0.139 | 0.152 | 0.159 | 0.160 | 0.147 | 9.9 |
| 2-Methylphenol | | 1.426 | 1.485 | 1.444 | 1.490 | 1.448 | 1.458 | 1.9 |
| Phenanthrene | 1.063 | 1.231 | 1.143 | 1.100 | 1.054 | | 1.118 | 6.4 |
| Pentachlorobenzene | 0.261 | 0.302 | 0.284 | 0.268 | 0.272 | | 0.278 | 5.7 |
| Anthracene | 1.075 | 1.257 | 1.156 | 1.125 | 1.084 | | 1.139 | 6.4 |
| 1,2,3,4-Tetrachlorobenzene | 0.244 | 0.282 | 0.270 | 0.279 | 0.273 | | 0.270 | 5.7 |
| Carbazole | | 1.176 | 1.103 | 1.056 | 1.010 | 0.907 | 1.050 | 9.6 |
| Di-n-butylphthalate | 1.173 | 1.388 | 1.359 | 1.349 | 1.290 | | 1.312 | 6.5 |
| Fluoranthene | 1.180 | 1.391 | 1.298 | 1.328 | 1.260 | | 1.291 | 6.1 |
| Pyrene | 1.330 | 1.547 | 1.380 | 1.410 | 1.330 | | 1.400 | 6.4 |
| Butylbenzylphthalate | 0.437 | 0.549 | 0.577 | 0.622 | 0.618 | | 0.561 | 13.4 |
| 3,3-Dichlorobenzidine | | 0.456 | 0.469 | 0.488 | 0.439 | 0.427 | 0.456 | 5.3 |
| 2,2-oxybis(1-Chloropropane) | | 2.711 | 2.645 | 2.464 | 2.437 | 2.201 | 2.492 | 8.0 |
| Benzo(a)anthracene | 1.362 | 1.588 | 1.398 | 1.465 | 1.382 | | 1.439 | 6.4 |
| Chrysene | 1.294 | 1.526 | 1.344 | 1.324 | 1.279 | | 1.353 | 7.4 |
| Bis(2-ethylhexyl)phthalate | 0.760 | 0.927 | 0.925 | 0.991 | 0.946 | | 0.910 | 9.7 |
| Di-n-octyl phthalate | | 1.169 | 1.292 | 1.452 | 1.468 | 1.059 | 1.288 | 13.8 |
| Benzo(b)fluoranthene | 1.094 | 1.294 | 1.230 | 1.278 | 1.321 | | 1.243 | 7.2 |
| Benzo(k)fluoranthene | 1.100 | 1.283 | 1.232 | 1.298 | 1.260 | | 1.234 | 6.4 |
| Benzo(a)pyrene | 1.062 | 1.190 | 1.185 | 1.223 | 1.232 | | 1.178 | 5.8 |
| Indeno(1,2,3-cd)pyrene | 1.269 | 1.488 | 1.462 | 1.543 | 1.549 | | 1.462 | 7.8 |
| Dibenzo(a,h)anthracene | 1.038 | 1.226 | 1.187 | 1.261 | 1.276 | | 1.198 | 8.0 |
| Benzo(g,h,i)perylene | 0.994 | 1.139 | 1.116 | 1.178 | 1.191 | | 1.124 | 7.0 |
| Acetophenone | | 2.635 | 2.557 | 2.400 | 2.443 | 2.282 | 2.464 | 5.6 |
| 2,3,4,6-Tetrachlorophenol | 0.266 | 0.314 | 0.323 | 0.350 | 0.354 | | 0.322 | 11.0 |
| 1,4-Dioxane-d8 | 0.488 | 0.512 | 0.507 | 0.478 | 0.466 | | 0.490 | 4.0 |
| Pyridine-d5 | | 1.511 | 1.520 | 1.467 | 1.496 | 1.443 | 1.488 | 2.1 |

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN081424 SAS No.: BN081424 SDG No.: BN081424

Instrument ID: Calibration Date(s): 8/13/2024

Calibration Time(s): 16:52

LAB FILE ID: RRFAL1 = BN033366.D RRFAL2 = BN033367.D RRFAL3 = BN033368.D
RRFAL4 = BN033369.D RRFAL5 = BN033370.D RRFAL6 = BN033371.D

| COMPOUND | RRFAL1 | RRFAL2 | RRFAL3 | RRFAL4 | RRFAL5 | RRFAL6 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Phenol-d5 | | 1.784 | 1.848 | 1.788 | 1.888 | 1.864 | 1.834 | 2.5 |
| Bis-(2-Chloroethyl)ether-d8 | | 1.254 | 1.214 | 1.171 | 1.163 | 1.079 | 1.176 | 5.6 |
| 2-Chlorophenol-d4 | 1.183 | 1.390 | 1.448 | 1.411 | 1.483 | | 1.383 | 8.5 |
| 4-Methylphenol-d8 | | 1.465 | 1.543 | 1.506 | 1.557 | 1.514 | 1.517 | 2.4 |
| Nitrobenzene-d5 | 0.129 | 0.152 | 0.156 | 0.162 | 0.162 | | 0.152 | 9.2 |
| 2-Nitrophenol-d4 | 0.102 | 0.121 | 0.132 | 0.152 | 0.164 | | 0.134 | 18.4 |
| 2,4-Dichlorophenol-d3 | 0.248 | 0.302 | 0.304 | 0.317 | 0.322 | | 0.298 | 9.9 |
| 4-Chloroaniline-d4 | | 0.526 | 0.496 | 0.499 | 0.494 | 0.472 | 0.497 | 3.8 |
| 4-Methylphenol | | 1.630 | 1.680 | 1.600 | 1.659 | 1.592 | 1.632 | 2.3 |
| Dimethylphthalate-d6 | 1.428 | 1.646 | 1.511 | 1.539 | 1.487 | | 1.522 | 5.3 |
| Acenaphthylene-d8 | 1.554 | 1.825 | 1.690 | 1.759 | 1.692 | | 1.704 | 5.9 |
| 4-Nitrophenol-d4 | | 0.269 | 0.287 | 0.304 | 0.309 | 0.303 | 0.294 | 5.6 |
| Fluorene-d10 | 1.251 | 1.410 | 1.301 | 1.303 | 1.263 | | 1.305 | 4.8 |
| 4,6-Dinitro-2-methylphenol- | | 0.066 | 0.079 | 0.096 | 0.109 | 0.120 | 0.094 | 23.1 |
| Anthracene-d10 | 0.882 | 1.029 | 0.963 | 0.941 | 0.927 | | 0.948 | 5.7 |
| Pyrene-d10 | 1.016 | 1.191 | 1.096 | 1.129 | 1.090 | | 1.104 | 5.8 |
| Benzo(a)pyrene-d12 | 0.903 | 1.058 | 1.045 | 1.082 | 1.111 | | 1.040 | 7.7 |
| N-Nitroso-di-n-propylamine | 1.127 | 1.340 | 1.321 | 1.246 | 1.260 | | 1.259 | 6.6 |

All other compounds must meet a minimum RRF of 0.010.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN081424 SAS No.: BN081424 SDG NO.: BN081424

EPA Sample No.: SSTD020212 Date Analyzed: Aug 13 2024 12:00AM

Lab File ID: BN033368.D Time Analyzed: 20:48

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 227825 | 7.569 | 1.07576e+0( | 10.33 | 755591 | 14.21 |
| | UPPER LIMIT | 455650 | 8.069 | 2151520 | 10.834 | 1511182 | 14.71 |
| | LOWER LIMIT | 113912.5 | 7.069 | 537880 | 9.834 | 377795.5 | 13.71 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | SICV216 | 243595 | 7.57 | 1.17308e | 10.33 | 856213 | 14.21 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN081424 SAS No.: BN081424 SDG NO.: BN081424

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | | | | | | |
| UPPER LIMIT | | | | | | |
| LOWER LIMIT | | | | | | |
| EPA SAMPLE NO. | | | | | | |
| | | | | | | |

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN081424 SAS No.: BN081424 SDG NO.: BN081424

EPA Sample No.: SSTD020212 Date Analyzed: Aug 13 2024 12:00AM

Lab File ID: BN033368.D Time Analyzed: 20:48

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1.60682e+0( | 16.957 | 1.67336e+ | 21.192 | 1.98419e+0( | 24.027 |
| | UPPER LIMIT | 3213640 | 17.457 | 3346720 | 21.692 | 3968380 | 24.527 |
| | LOWER LIMIT | 803410 | 16.457 | 836680 | 20.692 | 992095 | 23.527 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | SICV216 | 1.92952 | 16.96 | 1.90959e+ | 21.19 | 2.28067e+ | 24.03 |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN081424 SAS No.: BN081424 SDG NO.: BN081424

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

| | IS4 AREA # | RT # | IS5 AREA # | RT # | IS6 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | | | | | | |
| UPPER LIMIT | | | | | | |
| LOWER LIMIT | | | | | | |
| EPA SAMPLE NO. | | | | | | |
| | | | | | | |

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** BN081424

**Client:**

**Analytical Method:** SFAM_SVOC **DataFile:**

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SSTDICV020 | 1,4-Dioxane | 8 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Benzaldehyde | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Pyridine | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Phenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Bis(2-chloroethyl)ether | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2-Chlorophenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2-Methylphenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2,2-oxybis(1-Chloropropane) | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Acetophenone | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 4-Methylphenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | N-Nitroso-di-n-propylamine | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Hexachloroethane | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Nitrobenzene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Isophorone | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2-Nitrophenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2,4-Dimethylphenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Bis(2-chloroethoxy)methane | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2,4-Dichlorophenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Naphthalene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 4-Chloroaniline | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Hexachlorobutadiene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Caprolactam | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 4-Chloro-3-methylphenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 1-Methylnaphthalene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2-Methylnaphthalene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Hexachlorocyclopentadiene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2,4,6-Trichlorophenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2,4,5-Trichlorophenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 1,1'-Biphenyl | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2-Chloronaphthalene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2-Nitroaniline | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Dimethylphthalate | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2,6-Dinitrotoluene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Acenaphthylene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 3-Nitroaniline | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Acenaphthene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2,4-Dinitrophenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 4-Nitrophenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Dibenzofuran | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2,4-Dinitrotoluene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Diethylphthalate | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Fluorene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 4-Chlorophenyl-phenylether | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 4-Nitroaniline | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** BN081424

**Client:**

**Analytical Method:** SFAM_SVOC **DataFile:**

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SSTDICV020 | 4,6-Dinitro-2-methylphenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | N-Nitrosodiphenylamine | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 1,2,4,5-Tetrachlorobenzene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 4-Bromophenyl-phenylether | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Hexachlorobenzene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Atrazine | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Pentachlorophenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Phenanthrene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Pentachlorobenzene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Anthracene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 1,2,3,4-Tetrachlorobenzene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Carbazole | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Di-n-butylphthalate | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Fluoranthene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Pyrene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Butylbenzylphthalate | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 3,3'-Dichlorobenzidine | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Benzo(a)anthracene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Chrysene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Bis(2-ethylhexyl)phthalate | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Di-n-octylphthalate | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Benzo(b)fluoranthene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Benzo(k)fluoranthene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Benzo(a)pyrene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Indeno(1,2,3-cd)pyrene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Dibenzo(a,h)anthracene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | Benzo(g,h,i)perylene | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |
| | 2,3,4,6-Tetrachlorophenol | 20 | 0 | ug/L | 0 | | | | 0 | 0 | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN081424 SAS No.: BN081424 SDG NO.: BN081424

Lab File ID: Lab Sample ID:

Instrument ID: Date Extracted:

Matrix: (soil/water) Date Analyzed:

Level: (low/med) Time Analyzed:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|

COMMENTS:

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BN081424

Lab Code: CHEM SAS No.: BN081424 SDG NO.: BN081424

Lab File ID: BN033365.D DFTPP Injection Date: 08/13/2024

Instrument ID: BNA_N DFTPP Injection Time: 16:10

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 40.4 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.7 ) 1 |
| 69 | Mass 69 relative abundance | 39.4 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.5 |
| 197 | Less than 2.0% of mass 198 | 0.5 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 26.2 |
| 365 | Greater than 1% of mass 198 | 3.3 |
| 441 | Present, but less than mass 443 | 10.6 |
| 442 | Greater than 50% of mass 198 | 66.8 |
| 443 | 15.0 - 24.0% of mass 442 | 12.3 (18.4) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTD005210 | SSTD00574 | BN033366.D | 08/13/2024 | 16:52 |
| SSTD010211 | SSTD01075 | BN033367.D | 08/13/2024 | 17:31 |
| SSTD020212 | SSTD02076 | BN033368.D | 08/13/2024 | 18:10 |
| SSTD040213 | SSTD04077 | BN033369.D | 08/13/2024 | 18:49 |
| SSTD080214 | SSTD08078 | BN033370.D | 08/13/2024 | 19:29 |
| SSTD160215 | SSTD16079 | BN033371.D | 08/13/2024 | 20:08 |
| SICV216 | SSTDICV020 | BN033372.D | 08/13/2024 | 20:48 |