Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV122320\
Data File : VV019824.D
Acq On : 23 Dec 2020 20:11
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** VSTD05072

**Manual Integrations APPROVED**
MMDadoda
12/26/2020 1:35:31 PM

Quant Time: Dec 24 00:36:24 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121020WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 23 22:04:07 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 5.62 | 114 | 648744 | 50.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 8.86 | 117 | 618140 | 50.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.25 | 152 | 298191 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.31 | 65 | 249203 | 53.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 135 | | Recovery = 107.14% | | | |
| 7) Chloroethane-d5 | 1.57 | 69 | 196415 | 53.53 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 130 | | Recovery = 107.06% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.11 | 63 | 453873 | 52.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 105.14% | | | |
| 21) 2-Butanone-d5 | 3.89 | 46 | 374652 | 148.17 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 40 - 130 | | Recovery = 148.17%# | | | |
| 24) Chloroform-d | 4.35 | 84 | 454644 | 54.23 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 108.46% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.04 | 65 | 308097 | 56.23 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 112.46% | | | |
| 32) Benzene-d6 | 5.05 | 84 | 881734 | 53.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 106.96% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.07 | 67 | 283508 | 54.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 120 | | Recovery = 109.80% | | | |
| 41) Toluene-d8 | 7.32 | 98 | 771306 | 51.96 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.92% | | | |
| 43) trans-1,3-Dichloropropene- | 7.62 | 79 | 137867 | 46.93 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 93.86% | | | |
| 47) 2-Hexanone-d5 | 8.09 | 63 | 246686 | 121.71 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 45 - 130 | | Recovery = 121.71% | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.22 | 84 | 376912 | 53.96 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 65 - 120 | | Recovery = 107.92% | | | |
| 64) 1,2-Dichlorobenzene-d4 | 11.63 | 152 | 286292 | 51.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.72% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.13 | 85 | 215391 | 41.141 | ug/L | 99 |
| 3) Chloromethane | 1.24 | 50 | 262704 | 47.207 | ug/L | 99 |
| 5) Vinyl chloride | 1.31 | 62 | 259946 | 46.569 | ug/L | 99 |
| 6) Bromomethane | 1.52 | 94 | 149646 | 44.641 | ug/L | 99 |
| 8) Chloroethane | 1.59 | 64 | 161292 | 47.905 | ug/L | 99 |
| 9) Trichlorofluoromethane | 1.75 | 101 | 321612 | 47.158 | ug/L | 99 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101 | 178736 | 47.457 | ug/L | 97 |
| 12) 1,1-Dichloroethene | 2.12 | 96 | 177912m | 46.033 | ug/L | |
| 13) Acetone | 2.18 | 43 | 256549 | 119.099 | ug/L | 98 |
| 14) Carbon disulfide | 2.30 | 76 | 499079 | 39.301 | ug/L | 99 |
| 15) Methyl Acetate | 2.43 | 43 | 276576 | 58.932 | ug/L | 97 |
| 16) Methylene chloride | 2.51 | 84 | 230069 | 50.773 | ug/L | 96 |
| 17) trans-1,2-Dichloroethene | 2.76 | 96 | 199487 | 47.092 | ug/L | 99 |
| 18) Methyl tert-butyl Ether | 2.77 | 73 | 730289 | 49.336 | ug/L | 99 |
| 19) 1,1-Dichloroethane | 3.19 | 63 | 427348 | 52.035 | ug/L | 99 |
| 20) cis-1,2-Dichloroethene | 3.92 | 96 | 229046 | 49.186 | ug/L # | 95 |
| 22) 2-Butanone | 3.97 | 43 | 386934 | 122.458 | ug/L | 96 |

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Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 24 00:36:24 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121020WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 23 22:04:07 2020
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTD05072

**Manual Integrations APPROVED**
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12/26/2020 1:35:31 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 23) Bromochloromethane | 4.25 | 128 | 112497 | 49.099 | ug/L | 93 |
| 25) Chloroform | 4.38 | 83 | 426483 | 51.996 | ug/L | 98 |
| 27) 1,2-Dichloroethane | 5.14 | 62 | 350866 | 51.635 | ug/L | 99 |
| 29) Cyclohexane | 4.68 | 56 | 337281 | 44.520 | ug/L | 98 |
| 30) 1,1,1-Trichloroethane | 4.61 | 97 | 358258 | 46.223 | ug/L | 99 |
| 31) Carbon tetrachloride | 4.83 | 117 | 286591 | 43.801 | ug/L | 99 |
| 33) Benzene | 5.11 | 78 | 885407 | 49.011 | ug/L | 100 |
| 34) Trichloroethene | 5.92 | 95 | 227282 | 47.626 | ug/L | 98 |
| 35) Methylcyclohexane | 6.14 | 83 | 325153 | 44.849 | ug/L | 99 |
| 37) 1,2-Dichloropropane | 6.18 | 63 | 247922 | 52.550 | ug/L | 100 |
| 38) Bromodichloromethane | 6.51 | 83 | 312112 | 47.310 | ug/L | 98 |
| 39) cis-1,3-Dichloropropene | 7.03 | 75 | 373785 | 47.703 | ug/L | 99 |
| 40) 4-Methyl-2-pentanone | 7.23 | 43 | 764349 | 112.298 | ug/L | 98 |
| 42) Toluene | 7.39 | 91 | 908349 | 47.706 | ug/L | 99 |
| 44) trans-1,3-Dichloropropene | 7.66 | 75 | 361898 | 45.613 | ug/L | 99 |
| 45) 1,1,2-Trichloroethane | 7.84 | 97 | 224282 | 50.061 | ug/L | 97 |
| 46) Tetrachloroethene | 7.98 | 164 | 146851 | 44.471 | ug/L | 98 |
| 48) 2-Hexanone | 8.14 | 43 | 585934 | 113.452 | ug/L | 97 |
| 49) Dibromochloromethane | 8.25 | 129 | 225324 | 45.925 | ug/L | 99 |
| 50) 1,2-Dibromoethane | 8.36 | 107 | 233217 | 49.433 | ug/L | 99 |
| 51) Chlorobenzene | 8.89 | 112 | 583077 | 47.947 | ug/L | 100 |
| 52) Ethylbenzene | 9.02 | 91 | 1030654 | 47.510 | ug/L | 100 |
| 53) m,p-Xylene | 9.14 | 106 | 372227 | 45.928 | ug/L | 97 |
| 54) o-xylene | 9.55 | 106 | 372540 | 46.896 | ug/L | 99 |
| 55) Styrene | 9.57 | 104 | 660367 | 47.696 | ug/L | 99 |
| 56) Isopropylbenzene | 9.94 | 105 | 988316 | 46.700 | ug/L | 99 |
| 58) 1,1,2,2-Tetrachloroethane | 10.25 | 83 | 368797 | 51.188 | ug/L | 99 |
| 59) 1,2,3-Trichloropropane | 10.28 | 75 | 315818 | 53.818 | ug/L | 99 |
| 61) Bromoform | 9.74 | 173 | 143139 | 43.383 | ug/L | 99 |
| 62) 1,3-Dichlorobenzene | 11.19 | 146 | 437659 | 47.838 | ug/L | 98 |
| 63) 1,4-Dichlorobenzene | 11.28 | 146 | 444570 | 47.988 | ug/L | 99 |
| 65) 1,2-Dichlorobenzene | 11.65 | 146 | 448911 | 49.657 | ug/L | 100 |
| 66) 1,2-Dibromo-3-chloropropan | 12.43 | 75 | 89462 | 47.408 | ug/L | 95 |
| 67) 1,3,5-Trichlorobenzene | 12.65 | 180 | 314553 | 48.663 | ug/L | 100 |
| 68) 1,2,4-trichlorobenzene | 13.27 | 180 | 294610 | 48.746 | ug/L | 99 |
| 69) Naphthalene | 13.51 | 128 | 997079 | 47.512 | ug/L | 100 |
| 70) 1,2,3-Trichlorobenzene | 13.75 | 180 | 292206 | 49.474 | ug/L | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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