Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV121418\
Data File : VV008923.D
Acq On : 14 Dec 2018 12:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** VSTD05078

Quant Time: Dec 14 23:39:03 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 14 01:09:42 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 5.66 | 114 | 248854 | 50.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 8.90 | 117 | 229321 | 50.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152 | 117323 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.32 | 65 | 56508 | 38.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 135 | | Recovery = 77.76% | | | |
| 7) Chloroethane-d5 | 1.56 | 69 | 40429 | 44.20 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 130 | | Recovery = 88.40% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.13 | 63 | 142738 | 41.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 83.18% | | | |
| 21) 2-Butanone-d5 | 3.93 | 46 | 86299 | 88.94 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 40 - 130 | | Recovery = 88.94% | | | |
| 24) Chloroform-d | 4.40 | 84 | 131862 | 42.52 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 85.04% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.08 | 65 | 81697 | 41.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 82.72% | | | |
| 32) Benzene-d6 | 5.10 | 84 | 255828 | 41.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 82.80% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.12 | 67 | 77176 | 41.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 120 | | Recovery = 83.12% | | | |
| 41) Toluene-d8 | 7.36 | 98 | 245684 | 42.35 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 84.70% | | | |
| 43) trans-1,3-Dichloropropene- | 7.66 | 79 | 40457 | 42.96 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 85.92% | | | |
| 47) 2-Hexanone-d5 | 8.13 | 63 | 66073 | 96.13 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 45 - 130 | | Recovery = 96.13% | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84 | 105827 | 44.14 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 65 - 120 | | Recovery = 88.28% | | | |
| 64) 1,2-Dichlorobenzene-d4 | 11.67 | 152 | 102524 | 42.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 84.74% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.14 | 85 | 85304 | 48.803 | ug/L | 99 |
| 3) Chloromethane | 1.25 | 50 | 70176 | 47.849 | ug/L | 97 |
| 5) Vinyl chloride | 1.32 | 62 | 73363 | 47.890 | ug/L | 98 |
| 6) Bromomethane | 1.52 | 94 | 33044 | 40.316 | ug/L | 98 |
| 8) Chloroethane | 1.58 | 64 | 40585 | 51.939 | ug/L | 99 |
| 9) Trichlorofluoromethane | 1.76 | 101 | 135301 | 48.746 | ug/L | 99 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 85151 | 50.135 | ug/L | 99 |
| 12) 1,1-Dichloroethene | 2.14 | 96 | 74124 | 47.970 | ug/L | 92 |
| 13) Acetone | 2.19 | 43 | 139875 | 95.866 | ug/L | 97 |
| 14) Carbon disulfide | 2.32 | 76 | 195223 | 46.268 | ug/L | 99 |
| 15) Methyl Acetate | 2.46 | 43 | 77909 | 49.336 | ug/L | 98 |
| 16) Methylene chloride | 2.53 | 84 | 81073 | 47.119 | ug/L | 97 |
| 17) trans-1,2-Dichloroethene | 2.79 | 96 | 76934 | 49.199 | ug/L | 97 |
| 18) Methyl tert-butyl Ether | 2.80 | 73 | 249691 | 50.161 | ug/L | 99 |
| 19) 1,1-Dichloroethane | 3.23 | 63 | 137673 | 49.873 | ug/L | 99 |
| 20) cis-1,2-Dichloroethene | 3.96 | 96 | 87347 | 48.690 | ug/L | 95 |
| 22) 2-Butanone | 4.01 | 43 | 128339 | 104.772 | ug/L | 95 |

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Acq On : 14 Dec 2018 12:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** VSTD05078

Quant Time: Dec 14 23:39:03 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 14 01:09:42 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 23) Bromochloromethane | 4.30 | 128 | 46368 | 49.387 | ug/L | 93 |
| 25) Chloroform | 4.43 | 83 | 148755 | 48.338 | ug/L | 99 |
| 27) 1,2-Dichloroethane | 5.18 | 62 | 117152 | 48.996 | ug/L | 99 |
| 29) Cyclohexane | 4.73 | 56 | 121032 | 49.549 | ug/L | 97 |
| 30) 1,1,1-Trichloroethane | 4.66 | 97 | 136888 | 48.717 | ug/L | 99 |
| 31) Carbon tetrachloride | 4.88 | 117 | 123762 | 48.781 | ug/L | 99 |
| 33) Benzene | 5.15 | 78 | 314383 | 49.735 | ug/L | 100 |
| 34) Trichloroethene | 5.96 | 95 | 91847 | 50.332 | ug/L | 99 |
| 35) Methylcyclohexane | 6.18 | 83 | 141642 | 52.341 | ug/L | 99 |
| 37) 1,2-Dichloropropane | 6.22 | 63 | 78902 | 48.280 | ug/L | 99 |
| 38) Bromodichloromethane | 6.56 | 83 | 111321 | 49.222 | ug/L | 96 |
| 39) cis-1,3-Dichloropropene | 7.07 | 75 | 128527 | 49.315 | ug/L | 99 |
| 40) 4-Methyl-2-pentanone | 7.27 | 43 | 199367 | 105.594 | ug/L | 100 |
| 42) Toluene | 7.43 | 91 | 344352 | 50.987 | ug/L | 100 |
| 44) trans-1,3-Dichloropropene | 7.69 | 75 | 120369 | 49.548 | ug/L | 97 |
| 45) 1,1,2-Trichloroethane | 7.88 | 97 | 83087 | 50.208 | ug/L | 98 |
| 46) Tetrachloroethene | 8.02 | 164 | 74399 | 51.200 | ug/L | 96 |
| 48) 2-Hexanone | 8.18 | 43 | 173245 | 110.181 | ug/L | 99 |
| 49) Dibromochloromethane | 8.29 | 129 | 96357 | 50.103 | ug/L | 99 |
| 50) 1,2-Dibromoethane | 8.40 | 107 | 88250 | 49.892 | ug/L | 98 |
| 51) Chlorobenzene | 8.93 | 112 | 232104 | 50.295 | ug/L | 100 |
| 52) Ethylbenzene | 9.06 | 91 | 387359 | 51.974 | ug/L | 100 |
| 53) m,p-Xylene | 9.18 | 106 | 146050 | 51.389 | ug/L | 99 |
| 54) o-xylene | 9.59 | 106 | 145984 | 51.932 | ug/L | 97 |
| 55) Styrene | 9.60 | 104 | 247220 | 53.193 | ug/L | 100 |
| 56) Isopropylbenzene | 9.98 | 105 | 388819 | 52.401 | ug/L | 100 |
| 58) 1,1,2,2-Tetrachloroethane | 10.29 | 83 | 120667 | 49.636 | ug/L | 98 |
| 59) 1,2,3-Trichloropropane | 10.32 | 75 | 102965 | 50.029 | ug/L | 98 |
| 61) Bromoform | 9.78 | 173 | 71503 | 47.436 | ug/L | 99 |
| 62) 1,3-Dichlorobenzene | 11.23 | 146 | 185774 | 49.395 | ug/L | 99 |
| 63) 1,4-Dichlorobenzene | 11.32 | 146 | 190214 | 50.226 | ug/L | 98 |
| 65) 1,2-Dichlorobenzene | 11.69 | 146 | 193113 | 50.568 | ug/L | 100 |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75 | 27539 | 52.752 | ug/L | 98 |
| 67) 1,3,5-Trichlorobenzene | 12.69 | 180 | 135761 | 56.009 | ug/L | 99 |
| 68) 1,2,4-trichlorobenzene | 13.31 | 180 | 96241 | 57.885 | ug/L | 100 |
| 69) Naphthalene | 13.55 | 128 | 215327 | 51.796 | ug/L | 100 |
| 70) 1,2,3-Trichlorobenzene | 13.80 | 180 | 98271 | 58.693 | ug/L | 98 |

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

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Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** VSTD05078

Quant Time: Dec 14 23:39:03 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 14 01:09:42 2018
Response via : Initial Calibration