

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060820\  
 Data File : VV016647.D  
 Acq On : 08 Jun 2020 09:01  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jun 09 00:11:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jun 08 05:42:16 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 328764   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 313034   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 157036   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 118014   | 50.68    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 101.36%  |
| 7) Chloroethane-d5             | 1.57    | 69    | 60216    | 35.82    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 71.64%   |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 204459   | 49.53    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.06%   |
| 21) 2-Butanone-d5              | 3.89    | 46    | 171859   | 115.42   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 115.42%  |
| 24) Chloroform-d               | 4.37    | 84    | 255860   | 58.55    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 117.10%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 173141   | 59.17    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 118.34%  |
| 32) Benzene-d6                 | 5.07    | 84    | 494989   | 59.03    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 118.06%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 155179   | 59.39    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 118.78%  |
| 41) Toluene-d8                 | 7.33    | 98    | 462907   | 60.79    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 121.58%# |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 78322    | 61.51    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 123.02%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 128419   | 114.77   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 114.77%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 196258   | 55.38    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 110.76%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 187690   | 63.60    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 127.20%# |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 116092 | 42.798 | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 104880 | 40.129 | ug/L 97  |
| 5) Vinyl chloride              | 1.32 | 62  | 102837 | 40.724 | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 36898  | 28.087 | ug/L 95  |
| 8) Chloroethane                | 1.59 | 64  | 47622  | 33.651 | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 155710 | 42.699 | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 78224  | 41.242 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 70658  | 38.712 | ug/L 79  |
| 13) Acetone                    | 2.18 | 43  | 97038  | 69.732 | ug/L 97  |
| 14) Carbon disulfide           | 2.31 | 76  | 258227 | 40.864 | ug/L 100 |
| 15) Methyl Acetate             | 2.44 | 43  | 99456  | 38.885 | ug/L 99  |
| 16) Methylene chloride         | 2.52 | 84  | 101146 | 39.308 | ug/L 99  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 97507  | 42.339 | ug/L 95  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 309003 | 43.340 | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 180882 | 42.469 | ug/L 99  |
| 22) 2-Butanone                 | 3.98 | 43  | 143931 | 83.350 | ug/L 96  |
| 23) Bromochloromethane         | 4.27 | 128 | 55743  | 43.586 | ug/L 91  |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 25) Chloroform                  | 4.40  | 83   | 188154   | 42.147 | ug/L  | 96       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 150887   | 41.597 | ug/L  | 99       |
| 29) Cyclohexane                 | 4.70  | 56   | 167369   | 45.049 | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 171304   | 44.903 | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.85  | 117  | 150338   | 45.821 | ug/L  | 98       |
| 33) Benzene                     | 5.12  | 78   | 390027   | 42.365 | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 105199   | 43.548 | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.15  | 83   | 170186   | 49.081 | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.19  | 63   | 104268   | 43.452 | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 137303   | 44.533 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 167343   | 47.829 | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 269788   | 81.709 | ug/L  | 99       |
| 42) Toluene                     | 7.41  | 91   | 420360   | 43.090 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 159636   | 46.503 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 98329    | 42.378 | ug/L  | 99       |
| 46) Tetrachloroethene           | 7.99  | 164  | 83512    | 44.837 | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.16  | 43   | 220668   | 85.966 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 107680   | 47.736 | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 103337   | 42.102 | ug/L  | 100      |
| 51) Chlorobenzene               | 8.90  | 112  | 275482   | 42.966 | ug/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 478693   | 45.085 | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 178488   | 44.582 | ug/L  | 99       |
| 54) o-xylene                    | 9.56  | 106  | 173917   | 44.854 | ug/L  | 100      |
| 55) Styrene                     | 9.58  | 104  | 301169   | 44.338 | ug/L  | 97       |
| 56) Isopropylbenzene            | 9.95  | 105  | 469962   | 46.663 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 145895   | 39.197 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 119763   | 39.996 | ug/L  | 98       |
| 61) Bromoform                   | 9.75  | 173  | 70881    | 53.906 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 217040   | 44.608 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 219018   | 43.384 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 219012   | 44.721 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 30181    | 40.609 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 157816   | 48.212 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 144980   | 47.841 | ug/L  | 96       |
| 69) Naphthalene                 | 13.53 | 128  | 401253   | 43.138 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 141075   | 48.972 | ug/L  | 99       |

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

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