

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV032620\  
 Data File : VV015193.D  
 Acq On : 27 Mar 2020 03:28  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05077

Quant Time: Mar 27 04:28:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 27 03:08:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 668385   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 655640   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 305557   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 155648   | 43.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.80%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 164491   | 45.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 91.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 368910   | 45.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.22%  |
| 21) 2-Butanone-d5              | 3.94    | 46    | 364387   | 102.05   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 102.05% |
| 24) Chloroform-d               | 4.38    | 84    | 377373   | 48.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.04%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 247258   | 47.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.32%  |
| 32) Benzene-d6                 | 5.08    | 84    | 628801   | 46.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.26%  |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 227051   | 46.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.34%  |
| 41) Toluene-d8                 | 7.34    | 98    | 565152   | 46.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.48%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 120994   | 45.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.34%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 283626   | 99.71    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.71%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 401303   | 48.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.14%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 273144   | 47.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.76%  |

## Target Compounds

|                                |      |     |        |               | Ovalue |
|--------------------------------|------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 265920 | 45.090 ug/L   | 98     |
| 3) Chloromethane               | 1.25 | 50  | 292387 | 45.653 ug/L   | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 295692 | 45.071 ug/L   | 100    |
| 6) Bromomethane                | 1.53 | 94  | 188190 | 44.449 ug/L   | 97     |
| 8) Chloroethane                | 1.60 | 64  | 192269 | 44.821 ug/L   | 99     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 478410 | 44.192 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 247082 | 45.128 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 246305 | 45.691 ug/L   | 95     |
| 13) Acetone                    | 2.22 | 43  | 200282 | 81.103 ug/L # | 89     |
| 14) Carbon disulfide           | 2.31 | 76  | 613720 | 44.396 ug/L   | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 235905 | 46.144 ug/L   | 99     |
| 16) Methylene chloride         | 2.52 | 84  | 235413 | 46.783 ug/L   | 99     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 211725 | 45.193 ug/L   | 100    |
| 18) Methyl tert-butyl Ether    | 2.79 | 73  | 731750 | 46.344 ug/L   | 100    |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 395112 | 45.659 ug/L   | 100    |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 240521 | 46.089 ug/L   | 98     |
| 22) 2-Butanone                 | 4.02 | 43  | 337726 | 86.929 ug/L   | 98     |

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 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05077

Quant Time: Mar 27 04:28:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 27 03:08:32 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.28  | 128  | 117546   | 46.558 | ug/L  | 98       |
| 25) Chloroform                  | 4.41  | 83   | 416420   | 46.710 | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.16  | 62   | 327745   | 46.371 | ug/L  | 100      |
| 29) Cyclohexane                 | 4.70  | 56   | 361073   | 44.997 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.64  | 97   | 382401   | 46.057 | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 320480   | 45.921 | ug/L  | 99       |
| 33) Benzene                     | 5.13  | 78   | 901570   | 46.189 | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 231803   | 45.588 | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.15  | 83   | 371554   | 43.971 | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 230419   | 46.170 | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.53  | 83   | 326770   | 46.201 | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 364462   | 43.691 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 705824   | 93.785 | ug/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 1013163  | 46.526 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 366771   | 45.033 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 229888   | 47.056 | ug/L  | 99       |
| 46) Tetrachloroethene           | 8.00  | 164  | 160526   | 46.977 | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.16  | 43   | 550878   | 92.693 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.27  | 129  | 255130   | 47.398 | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 248815   | 46.790 | ug/L  | 96       |
| 51) Chlorobenzene               | 8.90  | 112  | 649116   | 46.667 | ug/L  | 99       |
| 52) Ethylbenzene                | 9.04  | 91   | 1136875  | 46.338 | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 436672   | 46.652 | ug/L  | 99       |
| 54) o-xylene                    | 9.57  | 106  | 437356   | 46.520 | ug/L  | 99       |
| 55) Styrene                     | 9.58  | 104  | 747966   | 47.023 | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 1130505  | 46.837 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 383809   | 46.608 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 311744   | 47.022 | ug/L  | 100      |
| 61) Bromoform                   | 9.75  | 173  | 161865   | 45.980 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 475308   | 46.394 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 477679   | 46.156 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 478580   | 46.074 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 104239   | 45.169 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 304964   | 46.520 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 290081   | 46.391 | ug/L  | 99       |
| 69) Naphthalene                 | 13.53 | 128  | 1191059  | 47.565 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 293114   | 46.815 | ug/L  | 98       |

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

