

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV041119\  
 Data File : VV010255.D  
 Acq On : 11 Apr 2019 20:44  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00G/10mL/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02565

Quant Time: Apr 12 01:16:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 11 07:05:16 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 303415   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 294310   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 155347   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 76429    | 21.88    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 87.52% |
| 7) Chloroethane-d5             | 1.57   | 69    | 69971    | 23.31    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.24% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 204580   | 23.01    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 92.04% |
| 20) 2-Butanone-d5              | 3.93   | 46    | 43234    | 48.91    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 97.82% |
| 24) Chloroform-d               | 4.40   | 84    | 166488   | 24.03    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 96.12% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 89063    | 22.57    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 90.28% |
| 29) Benzene-d6                 | 5.10   | 84    | 325347   | 22.93    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 91.72% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 96580    | 22.88    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 91.52% |
| 37) Toluene-d8                 | 7.36   | 98    | 332996   | 24.06    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 96.24% |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 42954    | 24.41    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 97.64% |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 35670    | 48.93    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 97.86% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 88559    | 23.38    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 93.52% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 135046   | 23.54    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 94.16% |

## Target Compounds

|                                |      |     |        |        | Qvalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 129749 | 26.685 | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 105895 | 26.542 | ug/L 98  |
| 5) Vinyl chloride              | 1.32 | 62  | 114412 | 26.667 | ug/L 99  |
| 6) Bromomethane                | 1.51 | 94  | 97561  | 28.057 | ug/L 99  |
| 8) Chloroethane                | 1.59 | 64  | 72877  | 27.241 | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 228631 | 26.312 | ug/L 99  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 116272 | 24.995 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 104997 | 26.229 | ug/L 95  |
| 13) Acetone                    | 2.19 | 43  | 43710  | 46.285 | ug/L 96  |
| 14) Carbon disulfide           | 2.32 | 76  | 265567 | 27.471 | ug/L 99  |
| 15) Methyl Acetate             | 2.46 | 43  | 41341  | 24.579 | ug/L 96  |
| 16) Methylene chloride         | 2.54 | 84  | 107584 | 18.106 | ug/L 97  |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 224257 | 25.889 | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 101807 | 26.766 | ug/L 94  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 169562 | 27.100 | ug/L 96  |
| 21) 2-Butanone                 | 4.01 | 43  | 52288  | 48.544 | ug/L 96  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 109829 | 26.538 | ug/L 95  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 53482    | 26.244 | ug/L   | 97       |
| 25) Chloroform                 | 4.43  | 83   | 190581   | 25.643 | ug/L   | 99       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 124364   | 26.147 | ug/L   | 100      |
| 30) Cyclohexane                | 4.73  | 56   | 147743   | 26.807 | ug/L   | 99       |
| 31) 1,1,1-Trichloroethane      | 4.66  | 97   | 166151   | 26.989 | ug/L   | 99       |
| 32) Carbon tetrachloride       | 4.88  | 117  | 152124   | 26.517 | ug/L   | 99       |
| 34) Benzene                    | 5.15  | 78   | 388247   | 26.024 | ug/L   | 100      |
| 35) Trichloroethene            | 5.96  | 95   | 112597   | 26.121 | ug/L   | 98       |
| 36) Methylcyclohexane          | 6.18  | 83   | 179480   | 27.865 | ug/L   | 99       |
| 40) 1,2-Dichloropropane        | 6.22  | 63   | 96077    | 26.319 | ug/L   | 99       |
| 41) Bromodichloromethane       | 6.55  | 83   | 129278   | 26.578 | ug/L   | 99       |
| 42) cis-1,3-Dichloropropene    | 7.07  | 75   | 147789   | 26.715 | ug/L   | 99       |
| 43) 4-Methyl-2-pentanone       | 7.27  | 43   | 121263   | 51.324 | ug/L   | 99       |
| 44) Toluene                    | 7.43  | 91   | 452503   | 26.980 | ug/L   | 97       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 124901   | 26.902 | ug/L   | 99       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 79810    | 25.773 | ug/L   | 99       |
| 47) Tetrachloroethene          | 8.02  | 164  | 101994   | 26.691 | ug/L   | 95       |
| 49) 2-Hexanone                 | 8.18  | 43   | 83905    | 54.013 | ug/L   | 97       |
| 50) Dibromochloromethane       | 8.29  | 129  | 101196   | 26.715 | ug/L   | 100      |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 81427    | 25.782 | ug/L # | 100      |
| 52) Chlorobenzene              | 8.93  | 112  | 310708   | 26.549 | ug/L   | 99       |
| 53) Ethylbenzene               | 9.05  | 91   | 510313   | 27.593 | ug/L   | 99       |
| 54) m,p-Xylene                 | 9.18  | 106  | 203392   | 27.877 | ug/L   | 100      |
| 55) o-xylene                   | 9.59  | 106  | 197810   | 27.226 | ug/L   | 93       |
| 56) Styrene                    | 9.60  | 104  | 332854   | 28.774 | ug/L   | 98       |
| 57) Isopropylbenzene           | 9.97  | 105  | 526881   | 28.533 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 98908    | 25.843 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 70958    | 25.192 | ug/L   | 100      |
| 62) Bromoform                  | 9.77  | 173  | 56559    | 25.087 | ug/L   | 96       |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 259540   | 26.945 | ug/L   | 98       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 257964   | 26.319 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 241948   | 26.314 | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 12980    | 24.954 | ug/L   | 95       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 196049   | 27.468 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 139776   | 28.580 | ug/L   | 94       |
| 69) Naphthalene                | 13.55 | 128  | 187841   | 28.264 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 127532   | 28.118 | ug/L   | 99       |

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

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