

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV083118\  
 Data File : VV007306.D  
 Acq On : 31 Aug 2018 17:28  
 Operator : SY/MD  
 Sample : J4665-10MSD  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 E0AA4MSD

Quant Time: Sep 01 00:03:26 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM083118WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 31 23:57:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 622463   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 594656   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 295357   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 194260   | 51.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 103.28% |
| 7) Chloroethane-d5             | 1.58    | 69    | 106596   | 45.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 90.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 333865   | 47.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.62%  |
| 21) 2-Butanone-d5              | 3.96    | 46    | 374188   | 123.01   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 123.01% |
| 24) Chloroform-d               | 4.41    | 84    | 387374   | 47.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.46%  |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 231987   | 47.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.16%  |
| 32) Benzene-d6                 | 5.10    | 84    | 778017   | 48.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.38%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 255495   | 48.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.44%  |
| 41) Toluene-d8                 | 7.36    | 98    | 718985   | 50.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.62% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 113212   | 47.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.82%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 255355   | 129.35   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 129.35% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 377120   | 52.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 104.50% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 300337   | 50.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.22% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 237721   | 48.60  | ug/L  | # 86   |
| 3) Chloromethane               | 1.26 | 50   | 257587   | 47.97  | ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62   | 2584339  | 512.25 | ug/L  | 99     |
| 6) Bromomethane                | 1.53 | 94   | 119136   | 48.90  | ug/L  | 100    |
| 8) Chloroethane                | 1.59 | 64   | 103352   | 45.03  | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 1.76 | 101  | 313517   | 48.92  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 195502   | 48.72  | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96   | 190908   | 50.97  | ug/L  | 96     |
| 13) Acetone                    | 2.21 | 43   | 216213   | 82.44  | ug/L  | 99     |
| 14) Carbon disulfide           | 2.32 | 76   | 525848   | 46.68  | ug/L  | 100    |
| 15) Methyl Acetate             | 2.47 | 43   | 230678   | 54.46  | ug/L  | 99     |
| 16) Methylene chloride         | 2.54 | 84   | 206170   | 46.97  | ug/L  | 99     |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96   | 220827   | 54.28  | ug/L  | 98     |
| 18) Methyl tert-butyl Ether    | 2.82 | 73   | 611481   | 49.08  | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.23 | 63   | 448766   | 54.55  | ug/L  | 100    |
| 20) cis-1,2-Dichloroethene     | 3.97 | 96   | 1170134  | 249.83 | ug/L  | 98     |
| 22) 2-Butanone                 | 4.05 | 43   | 406649   | 111.33 | ug/L  | 97     |

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 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 E0AA4MSD

Quant Time: Sep 01 00:03:26 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM083118WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 31 23:57:34 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.31  | 128  | 117948   | 48.56  | ug/L  | 96       |
| 25) Chloroform                  | 4.43  | 83   | 399286   | 49.32  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 302777   | 50.27  | ug/L  | 100      |
| 29) Cyclohexane                 | 4.73  | 56   | 336731   | 52.43  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane       | 4.66  | 97   | 893181   | 131.97 | ug/L  | 100      |
| 31) Carbon tetrachloride        | 4.88  | 117  | 293930   | 50.32  | ug/L  | 99       |
| 33) Benzene                     | 5.15  | 78   | 930188   | 51.64  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 2372735  | 543.70 | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.18  | 83   | 374267   | 54.25  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 241285   | 49.62  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.56  | 83   | 292786   | 49.12  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.08  | 75   | 343699   | 50.69  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.29  | 43   | 707091   | 127.54 | ug/L  | 97       |
| 42) Toluene                     | 7.44  | 91   | 932457   | 52.42  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 320724   | 50.92  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 228653   | 50.51  | ug/L  | 99       |
| 46) Tetrachloroethene           | 8.02  | 164  | 263795   | 72.11  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.20  | 43   | 581995   | 129.66 | ug/L  | 100      |
| 49) Dibromochloromethane        | 8.30  | 129  | 234799   | 49.41  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 229021   | 50.67  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.93  | 112  | 596037   | 49.88  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.06  | 91   | 955010   | 51.91  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.19  | 106  | 373115   | 53.72  | ug/L  | 98       |
| 54) o-xylene                    | 9.59  | 106  | 361843   | 53.67  | ug/L  | 99       |
| 55) Styrene                     | 9.61  | 104  | 658388   | 56.08  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.98  | 105  | 933008   | 54.50  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 393194   | 53.84  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 315297   | 54.64  | ug/L  | 99       |
| 61) Bromoform                   | 9.78  | 173  | 177712   | 48.83  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 434525   | 49.90  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 474284   | 50.25  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 494571   | 52.01  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 85258    | 55.27  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 344975   | 51.22  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 280793   | 52.20  | ug/L  | 99       |
| 69) Naphthalene                 | 13.56 | 128  | 918011   | 61.20  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 321651   | 55.10  | ug/L  | 99       |

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

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