

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV102418\  
 Data File : VV008390.D  
 Acq On : 24 Oct 2018 14:17  
 Operator : SY/MD  
 Sample : MDL01  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL01

Manual Integrations  
 APPROVED

apatel  
 10/25/2018 4:40:35 PM

Quant Time: Oct 25 09:03:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102318WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 25 08:48:14 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 200304   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 178621   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 76524    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 49243    | 44.40    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 88.80% |
| 7) Chloroethane-d5             | 1.57    | 69    | 38010    | 47.47    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 94.94% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 69997    | 34.94    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.88% |
| 21) 2-Butanone-d5              | 3.93    | 46    | 119087   | 98.80    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 98.80% |
| 24) Chloroform-d               | 4.41    | 84    | 124161   | 45.39    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.78% |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 87001    | 47.57    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.14% |
| 32) Benzene-d6                 | 5.10    | 84    | 250066   | 49.13    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.26% |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 86614    | 49.02    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.04% |
| 41) Toluene-d8                 | 7.36    | 98    | 224549   | 48.59    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.18% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 41434    | 48.27    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.54% |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 90776    | 98.39    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 98.39% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 116502   | 48.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.38% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 74899    | 47.85    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.70% |

## Target Compounds

|                                |      |     |      |              | Qvalue |
|--------------------------------|------|-----|------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 2554 | 1.786 ug/L   | 97     |
| 3) Chloromethane               | 1.25 | 50  | 2919 | 1.905 ug/L   | 97     |
| 5) Vinyl chloride              | 1.33 | 62  | 2545 | 1.793 ug/L # | 52     |
| 6) Bromomethane                | 1.52 | 94  | 924  | 2.372 ug/L   | 90     |
| 8) Chloroethane                | 1.59 | 64  | 1944 | 2.606 ug/L   | 95     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 3401 | 1.861 ug/L   | 96     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 2430 | 2.546 ug/L # | 76     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 2102 | 2.339 ug/L # | 1      |
| 13) Acetone                    | 2.19 | 43  | 4232 | 4.524 ug/L   | 97     |
| 14) Carbon disulfide           | 2.32 | 76  | 7956 | 1.965 ug/L   | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 3576 | 1.917 ug/L   | 91     |
| 16) Methylene chloride         | 2.54 | 84  | 3006 | 1.931 ug/L   | 90     |
| 17) trans-1,2-Dichloroethene   | 2.80 | 96  | 2539 | 1.853 ug/L   | 94     |
| 18) Methyl tert-butyl Ether    | 2.81 | 73  | 8854 | 1.806 ug/L # | 92     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 5063 | 1.792 ug/L   | 90     |
| 20) cis-1,2-Dichloroethene     | 3.97 | 96  | 2901 | 1.859 ug/L   | 83     |
| 22) 2-Butanone                 | 4.03 | 43  | 4293 | 3.177 ug/L   | 96     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV102418\  
 Data File : VV008390.D  
 Acq On : 24 Oct 2018 14:17  
 Operator : SY/MD  
 Sample : MDL01  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL01

Manual Integrations  
 APPROVED

apatel  
 10/25/2018 4:40:35 PM

Quant Time: Oct 25 09:03:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102318WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 25 08:48:14 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 23) Bromochloromethane         | 4.31  | 128  | 1354     | 1.839 | ug/L   | 78       |
| 25) Chloroform                 | 4.43  | 83   | 5517m    | 2.000 | ug/L   |          |
| 27) 1,2-Dichloroethane         | 5.19  | 62   | 4428     | 1.922 | ug/L   | 97       |
| 29) Cyclohexane                | 4.73  | 56   | 4944     | 1.901 | ug/L   | 95       |
| 30) 1,1,1-Trichloroethane      | 4.67  | 97   | 4361     | 1.883 | ug/L   | 94       |
| 31) Carbon tetrachloride       | 4.88  | 117  | 3527     | 1.794 | ug/L   | 99       |
| 33) Benzene                    | 5.15  | 78   | 11384    | 1.950 | ug/L   | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 3098     | 2.072 | ug/L   | 84       |
| 35) Methylcyclohexane          | 6.18  | 83   | 4460     | 1.755 | ug/L   | 93       |
| 37) 1,2-Dichloropropane        | 6.23  | 63   | 2999     | 1.860 | ug/L # | 89       |
| 38) Bromodichloromethane       | 6.56  | 83   | 3808     | 1.853 | ug/L   | 92       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 4732     | 1.867 | ug/L   | 87       |
| 40) 4-Methyl-2-pentanone       | 7.28  | 43   | 8236     | 3.449 | ug/L   | 97       |
| 42) Toluene                    | 7.43  | 91   | 11074    | 1.826 | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 4421     | 1.864 | ug/L   | 93       |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 2804     | 1.967 | ug/L   | 88       |
| 46) Tetrachloroethene          | 8.02  | 164  | 1938     | 1.989 | ug/L   | 91       |
| 48) 2-Hexanone                 | 8.19  | 43   | 7033     | 3.817 | ug/L   | 96       |
| 49) Dibromochloromethane       | 8.29  | 129  | 2594     | 1.693 | ug/L   | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 2642     | 1.766 | ug/L # | 89       |
| 51) Chlorobenzene              | 8.93  | 112  | 6905     | 1.849 | ug/L   | 94       |
| 52) Ethylbenzene               | 9.06  | 91   | 12095    | 1.780 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.18  | 106  | 4260     | 1.716 | ug/L   | 92       |
| 54) o-xylene                   | 9.59  | 106  | 4450     | 1.795 | ug/L   | 94       |
| 55) Styrene                    | 9.61  | 104  | 7185     | 1.721 | ug/L   | 99       |
| 56) Isopropylbenzene           | 9.98  | 105  | 10828    | 1.670 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 4923     | 1.972 | ug/L # | 96       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 3798     | 1.879 | ug/L   | 95       |
| 61) Bromoform                  | 9.78  | 173  | 1775     | 1.838 | ug/L # | 86       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 4556     | 1.801 | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 4790     | 1.889 | ug/L   | 93       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 4740     | 1.837 | ug/L   | 90       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 1004     | 1.893 | ug/L   | 95       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 2718     | 1.645 | ug/L   | 95       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 1677     | 1.255 | ug/L   | 92       |
| 69) Naphthalene                | 13.56 | 128  | 4627     | 1.071 | ug/L # | 92       |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 1692     | 1.267 | ug/L   | 92       |
| -----                          |       |      |          |       |        |          |

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

