

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100819\  
 Data File : VU034985.D  
 Acq On : 08 Oct 2019 11:51  
 Operator : JC/SP  
 Sample : MDL03  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL03

Manual Integrations  
 APPROVED

MMDadoda  
 10/9/2019 3:47:50 PM

Quant Time: Oct 09 07:47:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Oct 09 07:15:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 178918   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 178187   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 77861    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 46378    | 4.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 87.80%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 45371    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 92.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 73427    | 3.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 65.80%  |
| 20) 2-Butanone-d5              | 4.19   | 46    | 158871   | 51.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 102.02% |
| 24) Chloroform-d               | 4.62   | 84    | 87900    | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 57590    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.20%  |
| 32) Benzene-d6                 | 5.32   | 84    | 196211   | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 67626    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.80%  |
| 41) Toluene-d8                 | 7.54   | 98    | 179491   | 4.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.80%  |
| 43) trans-1,3-Dichloropropene- | 7.84   | 79    | 20677    | 4.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.40%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 112257   | 46.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 93.90%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 57730    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 67142    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.20% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85   | 4294     | 0.263 | ug/L   | 93     |
| 3) Chloromethane               | 1.32 | 50   | 4837     | 0.270 | ug/L   | 97     |
| 5) Vinyl chloride              | 1.40 | 62   | 4945     | 0.281 | ug/L # | 82     |
| 6) Bromomethane                | 1.62 | 94   | 2499     | 0.255 | ug/L   | 90     |
| 8) Chloroethane                | 1.69 | 64   | 2893     | 0.274 | ug/L   | 95     |
| 9) Trichlorofluoromethane      | 1.88 | 101  | 5829     | 0.274 | ug/L   | 96     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101  | 3855     | 0.315 | ug/L # | 84     |
| 12) 1,1-Dichloroethene         | 2.27 | 96   | 3397     | 0.296 | ug/L # | 1      |
| 13) Acetone                    | 2.33 | 43   | 7789     | 3.053 | ug/L   | 88     |
| 14) Carbon disulfide           | 2.47 | 76   | 9849     | 0.258 | ug/L   | 97     |
| 15) Methyl Acetate             | 2.61 | 43   | 1922     | 0.283 | ug/L # | 74     |
| 16) Methylene chloride         | 2.68 | 84   | 6096     | 0.428 | ug/L   | 90     |
| 17) Methyl tert-butyl Ether    | 2.99 | 73   | 8910     | 0.284 | ug/L # | 93     |
| 18) trans-1,2-Dichloroethene   | 2.97 | 96   | 3462     | 0.281 | ug/L   | 91     |
| 19) 1,1-Dichloroethane         | 3.42 | 63   | 6867     | 0.281 | ug/L   | 92     |
| 21) 2-Butanone                 | 4.28 | 43   | 10331    | 2.844 | ug/L   | 93     |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96   | 3568     | 0.260 | ug/L   | 94     |

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 Quant Title : TRACE VOA SOM01.0  
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 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane        | 4.53  | 128  | 1311     | 0.228 | ug/L   | 89       |
| 25) Chloroform                | 4.65  | 83   | 25138    | 0.915 | ug/L   | 99       |
| 27) 1,2-Dichloroethane        | 5.39  | 62   | 4183     | 0.261 | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane     | 4.89  | 97   | 5360     | 0.268 | ug/L   | 95       |
| 30) Cyclohexane               | 4.97  | 56   | 5354     | 0.243 | ug/L # | 92       |
| 31) Carbon tetrachloride      | 5.11  | 117  | 4308     | 0.248 | ug/L   | 96       |
| 33) Benzene                   | 5.37  | 78   | 14103m   | 0.263 | ug/L   |          |
| 34) Trichloroethene           | 6.16  | 95   | 3749     | 0.271 | ug/L   | 86       |
| 35) Methylcyclohexane         | 6.40  | 83   | 5608     | 0.250 | ug/L   | 95       |
| 37) 1,2-Dichloropropane       | 6.42  | 63   | 4049     | 0.280 | ug/L # | 91       |
| 38) Bromodichloromethane      | 6.74  | 83   | 4361     | 0.257 | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene   | 7.26  | 75   | 4474     | 0.228 | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone      | 7.45  | 43   | 20123    | 2.208 | ug/L # | 84       |
| 42) Toluene                   | 7.62  | 91   | 14494    | 0.259 | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene | 7.87  | 75   | 3479     | 0.229 | ug/L   | 88       |
| 45) 1,1,2-Trichloroethane     | 8.06  | 97   | 2460     | 0.256 | ug/L   | 81       |
| 47) Tetrachloroethene         | 8.21  | 164  | 2914     | 0.260 | ug/L   | 90       |
| 48) 2-Hexanone                | 8.35  | 43   | 16723    | 2.677 | ug/L   | 93       |
| 49) Dibromochloromethane      | 8.46  | 129  | 2418     | 0.218 | ug/L   | 93       |
| 50) 1,2-Dibromoethane         | 8.57  | 107  | 2195     | 0.239 | ug/L # | 90       |
| 51) Chlorobenzene             | 9.10  | 112  | 8947     | 0.246 | ug/L   | 94       |
| 52) Ethylbenzene              | 9.23  | 91   | 15140    | 0.245 | ug/L   | 95       |
| 53) m,p-Xylene                | 9.36  | 106  | 5179     | 0.227 | ug/L   | 85       |
| 54) o-Xylene                  | 9.76  | 106  | 4944     | 0.221 | ug/L   | 95       |
| 55) Styrene                   | 9.78  | 104  | 7652m    | 0.211 | ug/L   |          |
| 56) Isopropylbenzene          | 10.14 | 105  | 12557    | 0.211 | ug/L   | 95       |
| 58) 1,1,2,2-Tetrachloroethane | 10.43 | 83   | 3204     | 0.245 | ug/L # | 93       |
| 59) 1,2,3-Trichloropropane    | 10.48 | 75   | 2583     | 0.276 | ug/L   | 94       |
| 61) Bromoform                 | 9.94  | 173  | 1208     | 0.226 | ug/L # | 88       |
| 62) 1,3-Dichlorobenzene       | 11.40 | 146  | 6462     | 0.269 | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene       | 11.49 | 146  | 6436     | 0.266 | ug/L   | 90       |
| 65) 1,2-Dichlorobenzene       | 11.86 | 146  | 6688     | 0.289 | ug/L   | 97       |
| 67) 1,3,5-Trichlorobenzene    | 12.87 | 180  | 3252     | 0.200 | ug/L # | 95       |
| 70) 1,2,3-Trichlorobenzene    | 14.00 | 180  | 1893m    | 0.160 | ug/L   |          |

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

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