

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072420\  
 Data File : VV017642.D  
 Acq On : 24 Jul 2020 11:52  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00557

Manual Integrations  
 APPROVED

MMDadoda  
 7/29/2020 11:24:26 AM

Quant Time: Jul 25 00:02:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR072320WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jul 24 19:22:15 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 173509   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 163537   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 94223    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 37835    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 30051    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 89351    | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 96.20%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 81777m   | 41.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 82.52%  |
| 24) Chloroform-d               | 4.37   | 84    | 101451   | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.20% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 49728    | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.20%  |
| 32) Benzene-d6                 | 5.07   | 84    | 169832   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 45882    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.60%  |
| 41) Toluene-d8                 | 7.33   | 98    | 166013   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.00%  |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 20769    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.40%  |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 63752    | 45.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 90.60%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 35211    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.00% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 66460    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.20%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 92660  | 4.874  | ug/L 99  |
| 3) Chloromethane               | 1.24 | 50  | 57761  | 4.670  | ug/L 95  |
| 5) Vinyl chloride              | 1.32 | 62  | 61958  | 4.998  | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 38043  | 4.775  | ug/L 96  |
| 8) Chloroethane                | 1.59 | 64  | 36303  | 5.073  | ug/L 95  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 114464 | 5.163  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 51217  | 4.946  | ug/L 94  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 45575  | 4.878  | ug/L 92  |
| 13) Acetone                    | 2.24 | 43  | 71806m | 46.279 | ug/L     |
| 14) Carbon disulfide           | 2.31 | 76  | 138143 | 4.863  | ug/L 98  |
| 15) Methyl Acetate             | 2.46 | 43  | 12834  | 4.251  | ug/L 89  |
| 16) Methylene chloride         | 2.52 | 84  | 47949  | 4.612  | ug/L 95  |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 119742 | 5.000  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 2.77 | 96  | 51477  | 5.056  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.20 | 63  | 104601 | 4.886  | ug/L 98  |
| 21) 2-Butanone                 | 4.04 | 43  | 110283 | 42.093 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 3.93 | 96  | 61527  | 4.799  | ug/L 99  |

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jul 24 19:22:15 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.27  | 128  | 28613    | 4.843  | ug/L  | 85       |
| 25) Chloroform                 | 4.40  | 83   | 120574   | 5.018  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.15  | 62   | 78885    | 5.063  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane      | 4.63  | 97   | 117734   | 5.146  | ug/L  | 98       |
| 30) Cyclohexane                | 4.69  | 56   | 87148    | 4.807  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 4.85  | 117  | 106847   | 5.250  | ug/L  | 99       |
| 33) Benzene                    | 5.12  | 78   | 231804   | 5.008  | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 64428    | 4.983  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.15  | 83   | 94152    | 4.814  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 53567    | 4.924  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.53  | 83   | 82289    | 5.142  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 83095    | 5.064  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 289208   | 48.485 | ug/L  | 99       |
| 42) Toluene                    | 7.41  | 91   | 261496   | 5.178  | ug/L  | 98       |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 249269   | 5.287  | ug/L  | 99       |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 258492   | 5.366  | ug/L  | 100      |
| 46) trans-1,3-Dichloropropene  | 7.67  | 75   | 72971    | 4.954  | ug/L  | 98       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 38428    | 4.658  | ug/L  | 89       |
| 49) Tetrachloroethene          | 7.99  | 164  | 58575    | 5.138  | ug/L  | 95       |
| 50) 2-Hexanone                 | 8.16  | 43   | 211666   | 50.151 | ug/L  | 98       |
| 51) Dibromochloromethane       | 8.27  | 129  | 55467    | 5.282  | ug/L  | 95       |
| 52) 1,2-Dibromoethane          | 8.37  | 107  | 38568    | 4.954  | ug/L  | 98       |
| 53) Chlorobenzene              | 8.90  | 112  | 172597   | 5.127  | ug/L  | 98       |
| 54) Ethylbenzene               | 9.03  | 91   | 291218   | 5.151  | ug/L  | 98       |
| 55) m,p-xylene                 | 9.16  | 106  | 112848   | 5.300  | ug/L  | 93       |
| 56) o-xylene                   | 9.56  | 106  | 108838   | 5.267  | ug/L  | 98       |
| 57) Styrene                    | 9.58  | 104  | 185194   | 5.371  | ug/L  | 99       |
| 58) Isopropylbenzene           | 9.95  | 105  | 299915   | 5.261  | ug/L  | 99       |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 44222    | 4.919  | ug/L  | 99       |
| 62) Bromoform                  | 9.75  | 173  | 29458    | 4.885  | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 151471   | 4.993  | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 11.29 | 146  | 149663   | 4.916  | ug/L  | 97       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 134636   | 4.872  | ug/L  | 96       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 8777     | 5.079  | ug/L  | 96       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 120719   | 4.899  | ug/L  | 99       |
| 69) 1,2,4-trichlorobenzene     | 13.28 | 180  | 98282    | 4.768  | ug/L  | 99       |
| 70) Naphthalene                | 13.52 | 128  | 133582   | 4.648  | ug/L  | 99       |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 89040    | 4.875  | ug/L  | 100      |

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

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