

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081618\  
 Data File : VV007043.D  
 Acq On : 16 Aug 2018 15:07  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00562

Quant Time: Aug 17 01:15:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 17 01:13:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 233030   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 227586   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 103971   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 66336    | 4.41     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.20% |
| 7) Chloroethane-d5             | 1.58   | 69    | 54997    | 4.31     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.20% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 128711   | 4.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 91.20% |
| 20) 2-Butanone-d5              | 3.97   | 46    | 143075   | 33.07    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 66.14% |
| 24) Chloroform-d               | 4.41   | 84    | 133728   | 4.38     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.60% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 64581    | 4.19     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 83.80% |
| 32) Benzene-d6                 | 5.10   | 84    | 256468   | 4.39     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.80% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 82781    | 4.14     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 82.80% |
| 41) Toluene-d8                 | 7.36   | 98    | 236017   | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.80% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 28579    | 4.11     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.20% |
| 46) 2-Hexanone-d5              | 8.15   | 63    | 91472    | 32.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 64.34% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 59882    | 3.84     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 76.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 74071    | 4.10     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 82.00% |

## Target Compounds

|                                |      |     |        |       | Ovalue   |
|--------------------------------|------|-----|--------|-------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 113646 | 5.01  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 115006 | 5.27  | ug/L 96  |
| 5) Vinyl chloride              | 1.32 | 62  | 111698 | 4.95  | ug/L 95  |
| 6) Bromomethane                | 1.54 | 94  | 31519  | 6.43  | ug/L 100 |
| 8) Chloroethane                | 1.60 | 64  | 68147  | 4.98  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 147805 | 5.15  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 89794  | 5.21  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 84236  | 5.03  | ug/L 94  |
| 13) Acetone                    | 2.21 | 43  | 91102  | 40.90 | ug/L 97  |
| 14) Carbon disulfide           | 2.32 | 76  | 250099 | 4.53  | ug/L 99  |
| 15) Methyl Acetate             | 2.47 | 43  | 27867  | 4.45  | ug/L 99  |
| 16) Methylene chloride         | 2.54 | 84  | 95813  | 4.75  | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 2.82 | 73  | 198608 | 4.95  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 92007  | 5.13  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 162086 | 5.01  | ug/L 98  |
| 21) 2-Butanone                 | 4.05 | 43  | 201068 | 41.58 | ug/L 93  |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 99154  | 4.88  | ug/L 98  |

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| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane          | 4.31  | 128  | 44861    | 5.41  | ug/L   | 91       |
| 25) Chloroform                  | 4.43  | 83   | 184188   | 5.20  | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 110304   | 5.00  | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 156086   | 5.14  | ug/L   | 98       |
| 30) Cyclohexane                 | 4.73  | 56   | 139929   | 4.43  | ug/L   | 99       |
| 31) Carbon tetrachloride        | 4.88  | 117  | 131589   | 5.17  | ug/L   | 100      |
| 33) Benzene                     | 5.15  | 78   | 404900   | 5.14  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 93411    | 4.94  | ug/L   | 94       |
| 35) Methylcyclohexane           | 6.18  | 83   | 139227   | 4.59  | ug/L   | 99       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 109415   | 5.07  | ug/L   | 99       |
| 38) Bromodichloromethane        | 6.56  | 83   | 123512   | 5.04  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene     | 7.08  | 75   | 125218   | 4.80  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 7.29  | 43   | 545425   | 46.78 | ug/L   | 99       |
| 42) Toluene                     | 7.44  | 91   | 406047   | 5.36  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 104128   | 4.87  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 70708    | 5.04  | ug/L   | 96       |
| 47) Tetrachloroethene           | 8.02  | 164  | 79177    | 5.17  | ug/L   | 97       |
| 48) 2-Hexanone                  | 8.20  | 43   | 402871   | 49.00 | ug/L   | 97       |
| 49) Dibromochloromethane        | 8.30  | 129  | 77972    | 5.29  | ug/L   | 97       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 60540    | 5.10  | ug/L # | 97       |
| 51) Chlorobenzene               | 8.93  | 112  | 246635   | 5.11  | ug/L   | 99       |
| 52) Ethylbenzene                | 9.06  | 91   | 376863   | 4.98  | ug/L   | 99       |
| 53) m,p-xylene                  | 9.19  | 106  | 145175   | 5.15  | ug/L   | 98       |
| 54) o-xylene                    | 9.59  | 106  | 138280   | 5.17  | ug/L   | 97       |
| 55) Styrene                     | 9.61  | 104  | 239056   | 5.31  | ug/L   | 97       |
| 56) Isopropylbenzene            | 9.98  | 105  | 355718   | 5.07  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 86332    | 5.06  | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 60058    | 4.97  | ug/L   | 98       |
| 61) Bromoform                   | 9.78  | 173  | 41513    | 5.27  | ug/L   | 98       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 169211   | 5.03  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 174134   | 5.05  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene         | 11.70 | 146  | 172268   | 5.21  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 10798    | 4.60  | ug/L   | 93       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 129276   | 5.08  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.32 | 180  | 88394    | 4.73  | ug/L   | 98       |
| 69) Naphthalene                 | 13.56 | 128  | 109595   | 4.08  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 87083    | 4.83  | ug/L   | 99       |

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

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