

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122520\  
 Data File : VU041817.D  
 Acq On : 24 Dec 2020 20:17  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

Quant Time: Dec 25 03:49:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Dec 25 03:47:04 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 123443   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 119067   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 62512    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 39950    | 4.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 82.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 42523    | 5.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 113.80% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 86587    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 97.40%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 147609   | 53.25    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 106.50% |
| 24) Chloroform-d               | 5.08   | 84    | 90624    | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 109.60% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 49641    | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.80% |
| 32) Benzene-d6                 | 5.74   | 84    | 163686   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 52317    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.80%  |
| 41) Toluene-d8                 | 7.90   | 98    | 144365   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.80%  |
| 43) trans-1,3-Dichloropropene- | 8.18   | 79    | 23276    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 96.80%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 135762   | 51.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 103.34% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 53177    | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 109.60% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 58118    | 5.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.60% |

## Target Compounds

|                                |      |     |        |             | Ovalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 54517  | 5.213 ug/L  | 99     |
| 3) Chloromethane               | 1.52 | 50  | 53101  | 5.226 ug/L  | 100    |
| 5) Vinyl chloride              | 1.61 | 62  | 62132  | 5.538 ug/L  | 98     |
| 6) Bromomethane                | 1.86 | 94  | 43634  | 6.221 ug/L  | 98     |
| 8) Chloroethane                | 1.94 | 64  | 40568  | 5.324 ug/L  | 99     |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 91057  | 6.413 ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 52875  | 6.226 ug/L  | 96     |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 50885  | 6.077 ug/L  | 93     |
| 13) Acetone                    | 2.68 | 43  | 96246  | 54.583 ug/L | 99     |
| 14) Carbon disulfide           | 2.81 | 76  | 153110 | 5.291 ug/L  | 99     |
| 15) Methyl Acetate             | 2.97 | 43  | 25083  | 5.472 ug/L  | 93     |
| 16) Methylene chloride         | 3.06 | 84  | 61634  | 6.163 ug/L  | 94     |
| 17) Methyl tert-butyl Ether    | 3.38 | 73  | 130626 | 5.846 ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 51475  | 5.943 ug/L  | 91     |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 93024  | 5.746 ug/L  | 96     |
| 21) 2-Butanone                 | 4.74 | 43  | 135425 | 47.151 ug/L | 94     |
| 22) cis-1,2-Dichloroethene     | 4.69 | 96  | 51010  | 5.328 ug/L  | 97     |

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 ALS Vial : 18 Sample Multiplier: 1

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 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

Quant Time: Dec 25 03:49:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Dec 25 03:47:04 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 4.99  | 128  | 25665    | 5.836  | ug/L # | 85       |
| 25) Chloroform                  | 5.11  | 83   | 89372    | 5.482  | ug/L   | 95       |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 57118    | 5.174  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane       | 5.33  | 97   | 77347    | 5.657  | ug/L   | 97       |
| 30) Cyclohexane                 | 5.40  | 56   | 66772    | 4.357  | ug/L   | 92       |
| 31) Carbon tetrachloride        | 5.54  | 117  | 67743    | 5.730  | ug/L   | 100      |
| 33) Benzene                     | 5.79  | 78   | 195624   | 5.137  | ug/L   | 100      |
| 34) Trichloroethene             | 6.55  | 95   | 50453    | 5.273  | ug/L   | 95       |
| 35) Methylcyclohexane           | 6.77  | 83   | 71058    | 4.594  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.80  | 63   | 49467    | 5.079  | ug/L   | 100      |
| 38) Bromodichloromethane        | 7.11  | 83   | 65776    | 5.428  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 7.62  | 75   | 71414    | 4.948  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 319451   | 46.092 | ug/L # | 95       |
| 42) Toluene                     | 7.98  | 91   | 210032   | 5.342  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 8.21  | 75   | 65308    | 5.060  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane       | 8.40  | 97   | 40120    | 5.570  | ug/L   | 98       |
| 47) Tetrachloroethene           | 8.56  | 164  | 40692    | 6.075  | ug/L   | 92       |
| 48) 2-Hexanone                  | 8.69  | 43   | 240142   | 47.609 | ug/L # | 97       |
| 49) Dibromochloromethane        | 8.81  | 129  | 49178    | 5.944  | ug/L   | 100      |
| 50) 1,2-Dibromoethane           | 8.93  | 107  | 38998    | 5.473  | ug/L   | 99       |
| 51) Chlorobenzene               | 9.45  | 112  | 134750   | 5.514  | ug/L   | 94       |
| 52) Ethylbenzene                | 9.57  | 91   | 214386   | 5.121  | ug/L   | 97       |
| 53) m,p-Xylene                  | 9.69  | 106  | 83560    | 5.352  | ug/L   | 100      |
| 54) o-Xylene                    | 10.10 | 106  | 82592    | 5.401  | ug/L   | 94       |
| 55) Styrene                     | 10.11 | 104  | 140356   | 5.313  | ug/L   | 99       |
| 56) Isopropylbenzene            | 10.48 | 105  | 216873   | 5.328  | ug/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 51399    | 5.128  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane      | 10.82 | 75   | 37770    | 5.163  | ug/L   | 99       |
| 61) Bromoform                   | 10.29 | 173  | 30226    | 6.396  | ug/L   | 100      |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 104162   | 5.448  | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 103842   | 5.402  | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene         | 12.21 | 146  | 102448   | 5.472  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.99 | 75   | 8941     | 5.093  | ug/L   | 92       |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 75941    | 5.233  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 58217    | 4.780  | ug/L   | 99       |
| 69) Naphthalene                 | 14.07 | 128  | 100049   | 3.969  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 57034    | 4.914  | ug/L   | 98       |
| -----                           |       |      |          |        |        |          |

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

```
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ALS Vial  : 18      Sample Multiplier: 1
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