

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU022119\  
 Data File : VU029592.D  
 Acq On : 21 Feb 2019 12:40  
 Operator : JC/SP  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV51

Quant Time: Feb 22 03:09:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR022119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Feb 22 03:07:37 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 261510   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 251678   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 138897   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 83260    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.40%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 74783    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 176494   | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 96.20%  |
| 20) 2-Butanone-d5              | 4.19   | 46    | 191987   | 49.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.44%  |
| 24) Chloroform-d               | 4.65   | 84    | 146247   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 77237    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.00%  |
| 32) Benzene-d6                 | 5.34   | 84    | 315876   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 93829    | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.80%  |
| 41) Toluene-d8                 | 7.56   | 98    | 310399   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.20%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 38465    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 99.60%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 191965   | 50.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.50% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 83446    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 133455   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.80%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85   | 101291   | 4.962  | ug/L  | 99     |
| 3) Chloromethane               | 1.33 | 50   | 86637    | 4.911  | ug/L  | 99     |
| 5) Vinyl chloride              | 1.40 | 62   | 110685   | 4.963  | ug/L  | 98     |
| 6) Bromomethane                | 1.63 | 94   | 62660    | 5.075  | ug/L  | 99     |
| 8) Chloroethane                | 1.70 | 64   | 67886    | 4.698  | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 1.89 | 101  | 158371   | 4.789  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101  | 99853    | 4.893  | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.28 | 96   | 93882    | 4.839  | ug/L  | 98     |
| 13) Acetone                    | 2.32 | 43   | 133678   | 48.188 | ug/L  | 100    |
| 14) Carbon disulfide           | 2.48 | 76   | 310354   | 4.871  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.62 | 43   | 36788    | 4.546  | ug/L  | 99     |
| 16) Methylene chloride         | 2.70 | 84   | 101096   | 4.407  | ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 3.00 | 73   | 223041   | 4.809  | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.98 | 96   | 101450   | 4.805  | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.44 | 63   | 141719   | 4.311  | ug/L  | 99     |
| 21) 2-Butanone                 | 4.28 | 43   | 194136   | 50.437 | ug/L  | 97     |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96   | 93703    | 4.846  | ug/L  | 97     |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV51

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Feb 22 03:07:37 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.55  | 128  | 43997    | 5.043  | ug/L  | 96       |
| 25) Chloroform                  | 4.67  | 83   | 156997   | 4.771  | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.40  | 62   | 93579    | 4.815  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 4.91  | 97   | 128530   | 4.913  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.99  | 56   | 130298   | 5.033  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 5.13  | 117  | 111567   | 4.900  | ug/L  | 95       |
| 33) Benzene                     | 5.39  | 78   | 331605   | 4.986  | ug/L  | 100      |
| 34) Trichloroethene             | 6.18  | 95   | 92581    | 4.986  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.41  | 83   | 152985   | 5.080  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.43  | 63   | 85668    | 5.113  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.76  | 83   | 102485   | 4.900  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.27  | 75   | 124580   | 5.080  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 475980   | 50.545 | ug/L  | 99       |
| 42) Toluene                     | 7.63  | 91   | 373017   | 4.945  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.88  | 75   | 103766   | 5.271  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.07  | 97   | 65061    | 4.959  | ug/L  | 97       |
| 47) Tetrachloroethene           | 8.22  | 164  | 86688    | 5.028  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.36  | 43   | 354136   | 51.420 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.48  | 129  | 79152    | 4.980  | ug/L  | 97       |
| 50) 1,2-Dibromoethane           | 8.58  | 107  | 63806    | 4.968  | ug/L  | 99       |
| 51) Chlorobenzene               | 9.12  | 112  | 259375   | 5.005  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.25  | 91   | 422224   | 5.004  | ug/L  | 98       |
| 53) m,p-xylene                  | 9.37  | 106  | 168196   | 4.972  | ug/L  | 99       |
| 54) o-xylene                    | 9.78  | 106  | 164796   | 5.059  | ug/L  | 97       |
| 55) Styrene                     | 9.79  | 104  | 273762   | 5.031  | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.16 | 105  | 438615   | 5.018  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.46 | 83   | 80848    | 4.999  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.49 | 75   | 55558    | 4.965  | ug/L  | 100      |
| 61) Bromoform                   | 9.95  | 173  | 46247    | 5.021  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.41 | 146  | 219977   | 4.988  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.50 | 146  | 223563   | 4.999  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.88 | 146  | 211423   | 4.966  | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.66 | 75   | 12168    | 4.862  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 12.88 | 180  | 183026   | 5.154  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 159965   | 5.331  | ug/L  | 100      |
| 69) Naphthalene                 | 13.74 | 128  | 267970   | 5.776  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.98 | 180  | 151337   | 5.385  | ug/L  | 99       |

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

