

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082018\  
 Data File : VW004803.D  
 Acq On : 20 Aug 2018 20:28  
 Operator : SY/AP  
 Sample : J4499-08MS  
 Misc : 5.10G/5ML/MSVOA W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 LSB-07(0-1)MS

Manual Integrations  
 APPROVED

apatel  
 8/21/2018 11:32:28 AM

Quant Time: Aug 21 01:50:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081918S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 18 01:49:53 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 570987   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 842644   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 717784   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 305694   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 288563   | 52.27 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.54% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 287763   | 53.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.86% |      |
| 50) Toluene-d8            | 10.33  | 98  | 1039687  | 49.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.90%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 323394   | 42.76 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 85.52%  |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 190936 | 50.48  | ug/l | 95     |
| 3) Chloromethane              | 2.22 | 50  | 218468 | 44.18  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.37 | 62  | 392473 | 53.92  | ug/l | 98     |
| 5) Bromomethane               | 2.78 | 94  | 220679 | 49.09  | ug/l | 100    |
| 6) Chloroethane               | 2.93 | 64  | 239059 | 54.43  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 197687 | 57.65  | ug/l | 100    |
| 8) Diethyl Ether              | 3.68 | 74  | 175447 | 56.59  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 301301 | 51.03  | ug/l | 100    |
| 10) Methyl Iodide             | 4.27 | 142 | 419711 | 46.80  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 91589  | 296.97 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 297152 | 50.50  | ug/l | 99     |
| 13) Acrolein                  | 3.90 | 56  | 31980  | 77.27  | ug/l | 97     |
| 14) Allyl chloride            | 4.67 | 41  | 464538 | 52.02  | ug/l | 100    |
| 15) Acrylonitrile             | 5.37 | 53  | 338100 | 260.03 | ug/l | 100    |
| 16) Acetone                   | 4.14 | 43  | 423469 | 300.50 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.38 | 76  | 899412 | 46.51  | ug/l | 100    |
| 18) Methyl Acetate            | 4.68 | 43  | 478473 | 158.44 | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 469391 | 61.45  | ug/l | 99     |
| 20) Methylene Chloride        | 4.92 | 84  | 388975 | 61.44  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 309448 | 49.43  | ug/l | 98     |
| 22) Diisopropyl ether         | 6.31 | 45  | 966344 | 56.30  | ug/l | 97     |
| 23) Vinyl Acetate             | 6.26 | 43  | 305331 | 31.45  | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 590677 | 52.96  | ug/l | 99     |
| 25) 2-Butanone                | 7.18 | 43  | 582985 | 290.35 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 329044 | 51.08  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 342195 | 50.77  | ug/l | 99     |
| 28) Bromochloromethane        | 7.52 | 49  | 252200 | 53.70  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 313734 | 306.43 | ug/l | 99     |
| 30) Chloroform                | 7.68 | 83  | 576617 | 52.57  | ug/l | 99     |
| 31) Cyclohexane               | 7.96 | 56  | 471326 | 43.69  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 453720 | 52.18  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 418731 | 48.24  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 107005 | 30.92  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 407076 | 50.94  | ug/l | 98     |

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 8/21/2018 11:32:28 AM

Quant Time: Aug 21 01:50:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081918S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 18 01:49:53 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 395218   | 36.41   | ug/l   | 98       |
| 40) Benzene                    | 8.33  | 78   | 1289310  | 51.11   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 96109    | 48.94   | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 352186   | 54.44   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 236637   | 38.07   | ug/l   | 94       |
| 44) Trichloroethene            | 9.10  | 130  | 307253   | 47.98   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 330981   | 53.64   | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 164696   | 53.87   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 384035   | 52.60   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 209913   | 71.97   | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 53885    | 1206.42 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 1271039  | 302.57  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 751274   | 49.65   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 367810   | 50.00   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 442392   | 50.45   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 238090   | 54.79   | ug/l   | 100      |
| 56) Ethyl methacrylate         | 10.65 | 69   | 179901   | 32.78   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 407980   | 54.39   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 697736   | 290.73  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 833805   | 292.94  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 256842   | 52.68   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 218741   | 52.66   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 254691   | 51.92   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 762492   | 49.36   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 289823   | 55.56   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 1321474  | 50.46   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 1035604  | 101.63  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 493771   | 52.35   | ug/l   | 99       |
| 70) Styrene                    | 12.19 | 104  | 786607   | 49.64   | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 152102   | 55.24   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 1223932  | 58.85   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 92652    | 21.51   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 283677   | 73.63   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 183602m  | 68.13   | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 295295   | 58.66   | ug/l   | 96       |
| 78) n-propylbenzene            | 12.81 | 91   | 1350765  | 53.23   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 816746   | 55.83   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 995098   | 56.32   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 77289    | 66.66   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 819470   | 52.73   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 818498   | 54.16   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 1023091  | 56.28   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 1031512  | 45.72   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 905435   | 46.12   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 497536   | 48.59   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 497219   | 48.58   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 670000   | 35.30   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 166803   | 46.61   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 468892   | 50.98   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 42881    | 71.22   | ug/l   | 98       |

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ClientSampleId :  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081918S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 18 01:49:53 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 209239   | 32.17 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 85622    | 21.45 | ug/l  | 100      |
| 95) Naphthalene            | 15.38 | 128  | 533200   | 42.85 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 188175   | 32.62 | ug/l  | 100      |

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

