

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072719\  
 Data File : VW011518.D  
 Acq On : 26 Jul 2019 16:15  
 Operator : SY/VA  
 Sample : VW0727SBSD01  
 Misc : 5.00G/5.0ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0727SBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 7/29/2019 9:18:59 AM

Quant Time: Jul 27 05:47:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 236404   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 381598   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 335687   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 162871   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 137560   | 50.67  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 101.34% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 110121   | 51.44  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 102.88% |          |
| 50) Toluene-d8              | 10.32 | 98   | 457981   | 52.25  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.50% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 162811   | 52.10  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.20% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 27570    | 20.926 | ug/l  | 98     |
| 3) Chloromethane              | 2.21 | 50   | 45476    | 19.906 | ug/l  | 98     |
| 4) Vinyl Chloride             | 2.36 | 62   | 55337    | 20.119 | ug/l  | 99     |
| 5) Bromomethane               | 2.77 | 94   | 29204    | 19.182 | ug/l  | 99     |
| 6) Chloroethane               | 2.92 | 64   | 30461    | 19.388 | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 3.25 | 101  | 25875    | 21.050 | ug/l  | 98     |
| 8) Diethyl Ether              | 3.68 | 74   | 27140    | 19.473 | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 46550    | 19.963 | ug/l  | 99     |
| 10) Methyl Iodide             | 4.28 | 142  | 65313    | 19.820 | ug/l  | 100    |
| 11) Tert butyl alcohol        | 5.17 | 59   | 22018    | 99.146 | ug/l  | 96     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 47515    | 19.299 | ug/l  | 98     |
| 13) Acrolein                  | 3.89 | 56   | 17832    | 91.550 | ug/l  | 97     |
| 14) Allyl chloride            | 4.67 | 41   | 103056   | 19.680 | ug/l  | 99     |
| 15) Acrylonitrile             | 5.37 | 53   | 67073    | 96.407 | ug/l  | 99     |
| 16) Acetone                   | 4.12 | 43   | 70904    | 82.112 | ug/l  | 98     |
| 17) Carbon Disulfide          | 4.38 | 76   | 145583   | 18.893 | ug/l  | 98     |
| 18) Methyl Acetate            | 4.67 | 43   | 37795    | 19.484 | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 78873    | 20.188 | ug/l  | 95     |
| 20) Methylene Chloride        | 4.92 | 84   | 57824    | 19.417 | ug/l  | 95     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 52048    | 19.608 | ug/l  | 98     |
| 22) Diisopropyl ether         | 6.31 | 45   | 194716   | 19.723 | ug/l  | 99     |
| 23) Vinyl Acetate             | 6.25 | 43   | 599965   | 96.712 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 103367   | 19.549 | ug/l  | 99     |
| 25) 2-Butanone                | 7.17 | 43   | 103227   | 91.358 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 7.16 | 77   | 64300    | 19.774 | ug/l  | 97     |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96   | 57239    | 19.593 | ug/l  | 97     |
| 28) Bromochloromethane        | 7.51 | 49   | 48711    | 20.755 | ug/l  | 100    |
| 29) Tetrahydrofuran           | 7.52 | 42   | 60702    | 93.985 | ug/l  | 99     |
| 30) Chloroform                | 7.68 | 83   | 96219    | 19.725 | ug/l  | 97     |
| 31) Cyclohexane               | 7.96 | 56   | 100155   | 19.733 | ug/l  | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 72899    | 19.623 | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 78614    | 19.812 | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.26 | 43   | 43266    | 18.953 | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 65099    | 19.165 | ug/l  | 95     |

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 ALS Vial : 12 Sample Multiplier: 1

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 ClientSampleId :  
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Quant Time: Jul 27 05:47:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 87510    | 20.029  | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 221695   | 19.947  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 25021    | 18.335  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 69042    | 19.841  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 80781    | 19.241  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 52945    | 19.820  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 58069    | 19.527  | ug/l   | 95       |
| 46) Dibromomethane             | 9.46  | 93   | 26820    | 19.760  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 68290    | 19.180  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.43  | 41   | 38478    | 19.079  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 7266     | 369.714 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 208034   | 95.264  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 132660   | 19.765  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 70209    | 18.877  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 84847    | 19.187  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 37460    | 19.451  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 53963    | 19.149  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 72783    | 19.976  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 142458   | 111.336 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 141783   | 91.955  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 40597    | 18.991  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 34731    | 19.057  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.86 | 164  | 43816    | 20.047  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 133459   | 19.775  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 46580    | 19.815  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 256162   | 19.929  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 187949   | 40.208  | ug/l   | 98       |
| 69) o-Xylene                   | 12.16 | 106  | 85755    | 19.742  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 149686   | 19.930  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 22621    | 18.873  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.46 | 105  | 239866   | 19.741  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 71695    | 18.847  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 44956    | 19.670  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 31896m   | 18.508  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 53105    | 19.774  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.80 | 91   | 299368   | 20.245  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 167860   | 19.704  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 204962   | 20.123  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 13187    | 17.635  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 175357   | 19.619  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 170697   | 20.041  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 204886   | 19.969  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 245718   | 20.218  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 221217   | 20.062  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 103305   | 19.617  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 103279   | 19.716  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.82 | 91   | 220978   | 20.082  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 37388    | 19.175  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 92590    | 19.880  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7172     | 18.402  | ug/l   | 97       |

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QLast Update : Sat Jul 27 00:23:30 2019  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 65566    | 19.975 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 42017    | 20.526 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 113454   | 18.982 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 57896    | 20.122 | ug/l  | 99       |

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

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