

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091018\  
 Data File : VW005249.D  
 Acq On : 10 Sep 2018 19:12  
 Operator : SY/AP  
 Sample : VW0910SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0910SBS01

Manual Integrations  
 APPROVED

apatel  
 9/11/2018 11:09:58 AM

Quant Time: Sep 11 04:07:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 03:48:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 513144   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 739825   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 752226   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 401520   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 195414   | 51.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.12% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 194876   | 50.28 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.56% |      |
| 50) Toluene-d8            | 10.33  | 98  | 977985   | 49.94 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.88%  |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 357558   | 49.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.84%  |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 94705  | 21.39  | ug/l   | 97     |
| 3) Chloromethane              | 2.22 | 50  | 124652 | 21.06  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.36 | 62  | 114386 | 21.05  | ug/l   | 100    |
| 5) Bromomethane               | 2.75 | 94  | 78596  | 22.19  | ug/l   | 99     |
| 6) Chloroethane               | 2.91 | 64  | 62537  | 20.90  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 124098 | 20.19  | ug/l   | 93     |
| 8) Diethyl Ether              | 3.69 | 74  | 45202  | 20.64  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101 | 86891  | 19.79  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.28 | 142 | 81965  | 17.35  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.17 | 59  | 41252  | 131.43 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 80901  | 20.01  | ug/l   | 99     |
| 13) Acrolein                  | 3.90 | 56  | 33275  | 109.75 | ug/l   | 100    |
| 14) Allyl chloride            | 4.68 | 41  | 125872 | 20.27  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.38 | 53  | 104732 | 105.98 | ug/l   | 100    |
| 16) Acetone                   | 4.13 | 43  | 77061  | 108.47 | ug/l   | 100    |
| 17) Carbon Disulfide          | 4.38 | 76  | 276625 | 19.50  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.68 | 43  | 46943  | 22.14  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 201905 | 20.97  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.93 | 84  | 126367 | 22.10  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 94914  | 20.11  | ug/l   | 98     |
| 22) Diisopropyl ether         | 6.32 | 45  | 266018 | 21.27  | ug/l   | 95     |
| 23) Vinyl Acetate             | 6.26 | 43  | 730104 | 104.78 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 156359 | 20.31  | ug/l   | 98     |
| 25) 2-Butanone                | 7.18 | 43  | 124759 | 111.33 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 133808 | 20.05  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.18 | 96  | 102838 | 20.36  | ug/l   | 97     |
| 28) Bromochloromethane        | 7.52 | 49  | 61630  | 21.70  | ug/l # | 96     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 80299  | 106.33 | ug/l   | 98     |
| 30) Chloroform                | 7.68 | 83  | 157865 | 20.44  | ug/l   | 98     |
| 31) Cyclohexane               | 7.96 | 56  | 168018 | 20.52  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 137733 | 19.74  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 134095 | 19.78  | ug/l   | 100    |
| 37) Ethyl Acetate             | 7.26 | 43  | 56723  | 22.00  | ug/l   | 100    |
| 38) Carbon Tetrachloride      | 8.08 | 117 | 122807 | 19.34  | ug/l   | 95     |

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 Sample : VW0910SBSD01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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apatel  
 9/11/2018 11:09:58 AM

Quant Time: Sep 11 04:07:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 03:48:23 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 168264   | 18.70  | ug/l  | 94       |
| 40) Benzene                    | 8.33  | 78   | 403703   | 20.22  | ug/l  | 100      |
| 41) Methacrylonitrile          | 7.50  | 41   | 33435    | 25.28  | ug/l  | 94       |
| 42) 1,2-Dichloroethane         | 8.41  | 62   | 95928    | 20.08  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 101000   | 21.10  | ug/l  | 98       |
| 44) Trichloroethene            | 9.10  | 130  | 107228   | 19.57  | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 98912    | 20.61  | ug/l  | 95       |
| 46) Dibromomethane             | 9.46  | 93   | 47826    | 20.36  | ug/l  | 96       |
| 47) Bromodichloromethane       | 9.65  | 83   | 115504   | 20.10  | ug/l  | 97       |
| 48) Methyl methacrylate        | 9.45  | 41   | 47857    | 19.25  | ug/l  | 94       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 17781    | 405.36 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43   | 280235   | 104.01 | ug/l  | 100      |
| 52) Toluene                    | 10.40 | 92   | 291605   | 20.09  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 123848   | 19.94  | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 149896   | 20.15  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 75809    | 20.24  | ug/l  | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 93611    | 19.71  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 126098   | 20.27  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 220735   | 106.94 | ug/l  | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 202084   | 104.04 | ug/l  | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 82313    | 19.80  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 69200    | 20.14  | ug/l  | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 109987   | 19.71  | ug/l  | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 321359   | 19.50  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 94708    | 19.25  | ug/l  | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 560018   | 19.51  | ug/l  | 98       |
| 68) m/p-Xylenes                | 11.85 | 106  | 450895   | 38.99  | ug/l  | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 208692   | 19.40  | ug/l  | 99       |
| 70) Styrene                    | 12.19 | 104  | 342940   | 19.53  | ug/l  | 99       |
| 71) Bromoform                  | 12.35 | 173  | 50481    | 18.92  | ug/l  | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 561816   | 19.80  | ug/l  | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 110253   | 20.43  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 87176    | 20.45  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 59934m   | 19.41  | ug/l  |          |
| 77) Bromobenzene               | 12.76 | 156  | 135061   | 20.21  | ug/l  | 98       |
| 78) n-propylbenzene            | 12.81 | 91   | 685068   | 20.11  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 391144   | 20.02  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 482495   | 19.97  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 24959    | 18.95  | ug/l  | 95       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 415915   | 20.25  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 407929   | 19.31  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 487870   | 20.10  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 600758   | 19.79  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 530645   | 19.74  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 278198   | 19.82  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 276291   | 20.04  | ug/l  | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 485678   | 19.22  | ug/l  | 98       |
| 90) Hexachloroethane           | 14.10 | 117  | 81505    | 18.93  | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 247315   | 20.05  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 14529    | 20.49  | ug/l  | 95       |

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Quant Title : SW846 8260  
QLast Update : Tue Sep 11 03:48:23 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 165104   | 18.92 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.25 | 225  | 105690   | 18.92 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 267914   | 18.94 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 146795   | 19.55 | ug/l  | 99       |

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

