

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073018\  
 Data File : VW004311.D  
 Acq On : 29 Jul 2018 13:29  
 Operator : SY/AP  
 Sample : VSTDIC075  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC075

Manual Integrations  
 APPROVED

apatel  
 7/30/2018 10:32:32 AM

Quant Time: Jul 30 01:49:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 30 01:27:22 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 271068   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 411654   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 374627   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 194376   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 207856   | 76.02 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 152.04% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 192741   | 74.09 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 148.18% |      |
| 50) Toluene-d8            | 10.33  | 98  | 771263   | 75.02 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 150.04% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 270945   | 74.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 149.70% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 72552   | 75.52  | ug/l | 95     |
| 3) Chloromethane              | 2.21 | 50  | 104161  | 68.50  | ug/l | 97     |
| 4) Vinyl Chloride             | 2.36 | 62  | 150868  | 57.66  | ug/l | 98     |
| 5) Bromomethane               | 2.78 | 94  | 111325  | 64.41  | ug/l | 98     |
| 6) Chloroethane               | 2.92 | 64  | 93309   | 56.81  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 91876   | 58.69  | ug/l | 98     |
| 8) Diethyl Ether              | 3.67 | 74  | 79571   | 58.00  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 188525  | 69.44  | ug/l | 100    |
| 10) Methyl Iodide             | 4.26 | 142 | 292888  | 72.12  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.17 | 59  | 70463   | 351.25 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 189820  | 69.98  | ug/l | 98     |
| 13) Acrolein                  | 3.89 | 56  | 64098   | 360.49 | ug/l | 95     |
| 14) Allyl chloride            | 4.66 | 41  | 331683  | 76.05  | ug/l | 100    |
| 15) Acrylonitrile             | 5.37 | 53  | 237714  | 385.88 | ug/l | 100    |
| 16) Acetone                   | 4.12 | 43  | 249781  | 398.64 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.37 | 76  | 615508  | 73.39  | ug/l | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 116015  | 71.97  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 366534  | 75.88  | ug/l | 99     |
| 20) Methylene Chloride        | 4.90 | 84  | 195857  | 67.16  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 206432  | 71.35  | ug/l | 99     |
| 22) Diisopropyl ether         | 6.32 | 45  | 632332  | 77.04  | ug/l | 97     |
| 23) Vinyl Acetate             | 6.26 | 43  | 1929744 | 405.24 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 371980  | 70.37  | ug/l | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 318453  | 419.34 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 216058  | 70.45  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 220946  | 75.04  | ug/l | 98     |
| 28) Bromochloromethane        | 7.51 | 49  | 135618  | 73.20  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 202992  | 417.72 | ug/l | 99     |
| 30) Chloroform                | 7.68 | 83  | 366516  | 72.59  | ug/l | 98     |
| 31) Cyclohexane               | 7.96 | 56  | 343899  | 73.67  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 295502  | 71.26  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 303093  | 73.60  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 138294  | 81.95  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 285746  | 70.27  | ug/l | 98     |

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 Sample : VSTDIC075  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 VSTDIC075

Manual Integrations  
 APPROVED

apatel  
 7/30/2018 10:32:32 AM

Quant Time: Jul 30 01:49:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 30 01:27:22 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 376547   | 75.88   | ug/l  | 99       |
| 40) Benzene                    | 8.32  | 78   | 850281   | 73.40   | ug/l  | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 83867    | 86.07   | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 241406   | 72.89   | ug/l  | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 254997   | 83.84   | ug/l  | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 220272   | 70.43   | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 215154   | 74.84   | ug/l  | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 109303   | 74.46   | ug/l  | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 271094   | 72.81   | ug/l  | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 126491   | 81.66   | ug/l  | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 36635    | 1646.26 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 690399   | 413.61  | ug/l  | 100      |
| 52) Toluene                    | 10.39 | 92   | 530168   | 72.89   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 287833   | 77.18   | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 333044   | 76.61   | ug/l  | 96       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 152977   | 73.14   | ug/l  | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 207116   | 81.83   | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 265166   | 74.41   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 457157   | 406.61  | ug/l  | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 484151   | 422.42  | ug/l  | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 180315   | 72.05   | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 147954   | 74.18   | ug/l  | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 187485   | 68.31   | ug/l  | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 564072   | 71.69   | ug/l  | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 197429   | 71.14   | ug/l  | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 1021031  | 74.45   | ug/l  | 95       |
| 68) m/p-Xylenes                | 11.85 | 106  | 784038   | 148.56  | ug/l  | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 363506   | 74.54   | ug/l  | 100      |
| 70) Styrene                    | 12.19 | 104  | 616513   | 74.83   | ug/l  | 99       |
| 71) Bromoform                  | 12.35 | 173  | 113258   | 72.82   | ug/l  | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 1003983  | 74.49   | ug/l  | 98       |
| 74) N-amyl acetate             | 12.28 | 43   | 250487   | 85.77   | ug/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 183119   | 77.56   | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 123286m  | 41.62   | ug/l  |          |
| 77) Bromobenzene               | 12.76 | 156  | 237345   | 72.88   | ug/l  | 98       |
| 78) n-propylbenzene            | 12.81 | 91   | 1258780  | 76.67   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 691129   | 73.59   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 866517   | 74.63   | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 61252    | 80.34   | ug/l  | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 740381   | 74.50   | ug/l  | 98       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 733645   | 75.85   | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 882438   | 74.52   | ug/l  | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 1057503  | 74.85   | ug/l  | 97       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 948935   | 74.78   | ug/l  | 98       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 475655   | 72.97   | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 13.59 | 146  | 467631   | 71.91   | ug/l  | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 925594   | 78.11   | ug/l  | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 164952   | 72.88   | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 420188   | 72.02   | ug/l  | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 30624    | 74.31   | ug/l  | 98       |

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Acq On : 29 Jul 2018 13:29  
Operator : SY/AP  
Sample : VSTDICC075  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICC075

Manual Integrations  
APPROVED

apatel  
7/30/2018 10:32:32 AM

Quant Time: Jul 30 01:49:00 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W073018S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 30 01:27:22 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 295865   | 72.22 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 172718   | 69.01 | ug/l  | 97       |
| 95) Naphthalene            | 15.38 | 128  | 558152   | 79.19 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 263215   | 73.42 | ug/l  | 100      |

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

