

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052219\  
 Data File : VX009844.D  
 Acq On : 23 May 2019 07:54  
 Operator : JC/SP  
 Sample : K2976-11MSD 50X  
 Misc : 5.60u/5mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP1-SB-MW-ER(14-17)MSD

Manual Integrations  
 APPROVED

MMDadoda  
 5/23/2019 10:39:01 AM

Quant Time: May 23 09:17:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 170051   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 288828   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 268479   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 141454   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 115730   | 49.85 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.70% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 82169    | 45.26 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.52% |      |
| 50) Toluene-d8            | 8.71   | 98  | 333715   | 45.52 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.04% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 132058   | 49.58 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.16% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 61470   | 39.227  | ug/l | 100    |
| 3) Chloromethane              | 1.32 | 50  | 101271  | 47.336  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.41 | 62  | 97493   | 46.732  | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 61101   | 48.796  | ug/l | 96     |
| 6) Chloroethane               | 1.71 | 64  | 61535   | 45.941  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 115390  | 45.503  | ug/l | 99     |
| 8) Diethyl Ether              | 2.19 | 74  | 57022   | 47.471  | ug/l | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 67286   | 42.253  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 79757   | 43.739  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.06 | 59  | 154741  | 287.972 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 74297   | 46.565  | ug/l | 96     |
| 13) Acrolein                  | 2.29 | 56  | 87679   | 180.173 | ug/l | 100    |
| 14) Allyl chloride            | 2.73 | 41  | 181071  | 46.567  | ug/l | 99     |
| 15) Acrylonitrile             | 3.14 | 53  | 324442  | 246.939 | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 289119  | 231.945 | ug/l | 97     |
| 17) Carbon Disulfide          | 2.57 | 76  | 219772  | 49.060  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 144440  | 48.724  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 300596  | 48.515  | ug/l | 100    |
| 20) Methylene Chloride        | 2.85 | 84  | 93166   | 46.162  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 82817   | 47.860  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.85 | 45  | 367377  | 49.129  | ug/l | 98     |
| 23) Vinyl Acetate             | 3.81 | 43  | 1634555 | 255.264 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 175258  | 47.509  | ug/l | 99     |
| 25) 2-Butanone                | 4.67 | 43  | 491041  | 253.503 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 76660   | 27.919  | ug/l | 96     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 97280   | 47.099  | ug/l | 97     |
| 28) Bromochloromethane        | 5.02 | 49  | 88622   | 60.241  | ug/l | 96     |
| 29) Tetrahydrofuran           | 5.13 | 42  | 327700  | 262.903 | ug/l | 97     |
| 30) Chloroform                | 5.21 | 83  | 160732  | 48.175  | ug/l | 100    |
| 31) Cyclohexane               | 5.58 | 56  | 160337  | 46.718  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 130501  | 46.987  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 122461  | 45.624  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.84 | 43  | 185237  | 49.532  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 107025  | 43.886  | ug/l | 96     |

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 Sample : K2976-11MSD 50X  
 Misc : 5.60µ/5mL/100µL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP1-SB-MW-ER(14-17)MSD

Manual Integrations  
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 5/23/2019 10:39:01 AM

Quant Time: May 23 09:17:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 140153   | 42.518  | ug/l   | 98       |
| 40) Benzene                    | 6.14  | 78   | 376258   | 45.295  | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.04  | 41   | 105755   | 47.505  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 139412   | 46.786  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.45  | 43   | 294263   | 49.192  | ug/l   | 98       |
| 44) Trichloroethene            | 7.21  | 130  | 89913    | 44.773  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 108091   | 45.954  | ug/l   | 98       |
| 46) Dibromomethane             | 7.66  | 93   | 62270    | 45.588  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 126034   | 46.257  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.77  | 41   | 148173   | 49.927  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 55600    | 923.795 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 979379   | 250.485 | ug/l   | 98       |
| 52) Toluene                    | 8.78  | 92   | 229415   | 45.433  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 140364   | 45.629  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 150875   | 44.312  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 92744    | 45.020  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 176274   | 47.935  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 168054   | 46.357  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 447613   | 229.450 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 754508   | 245.703 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 92872    | 46.158  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 97613    | 46.941  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 86867    | 47.168  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.13 | 112  | 241245   | 44.918  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 85568    | 43.946  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 445702   | 45.092  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 327844   | 90.764  | ug/l   | 97       |
| 69) o-Xylene                   | 10.69 | 106  | 161267   | 45.251  | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 287972   | 46.491  | ug/l   | 98       |
| 71) Bromoform                  | 10.85 | 173  | 72087    | 45.557  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 458360   | 44.560  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 330600   | 55.127  | ug/l # | 70       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 189178   | 49.334  | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 138675m  | 42.263  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 107986   | 42.296  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 598477   | 50.945  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 299169   | 41.278  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 525946   | 60.725  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 46922    | 36.589  | ug/l   | 88       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 372783   | 45.529  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 370502   | 43.974  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 1432900  | 164.822 | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 548717   | 54.932  | ug/l   | 95       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 510613   | 56.860  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 199682   | 43.873  | ug/l   | 94       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 201503   | 43.913  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.38 | 91   | 562470   | 69.299  | ug/l # | 84       |
| 90) Hexachloroethane           | 12.59 | 117  | 95673    | 62.535  | ug/l   | 70       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 196349   | 42.355  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 39549    | 45.976  | ug/l   | 91       |

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ALS Vial : 56 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Manual Integrations  
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5/23/2019 10:39:01 AM

Quant Time: May 23 09:17:53 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 07:31:15 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 144947   | 45.723 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 72521    | 44.798 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 461130   | 44.710 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 143184   | 44.558 | ug/l  | 99       |

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

