

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY040220\  
 Data File : VY002193.D  
 Acq On : 02 Apr 2020 15:37  
 Operator : SY/MD  
 Sample : L2135-06MSD  
 Misc : 6.94G/5ML/MSVOA Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SB-2E-(7-9)MSD

Manual Integrations  
 APPROVED

MMDadoda  
 4/6/2020 11:28:29 AM

Quant Time: Apr 03 04:15:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y032620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 07:11:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 146523   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 272540   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 243500   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 111845   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.16   | 65  | 80953    | 49.98 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.96%  |      |
| 35) Dibromofluoromethane  | 7.74   | 113 | 76405    | 50.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.06% |      |
| 50) Toluene-d8            | 10.19  | 98  | 316949   | 49.96 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.92%  |      |
| 62) 4-Bromofluorobenzene  | 12.49  | 95  | 110517   | 49.81 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.62%  |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 42120  | 43.794  | ug/l | 99     |
| 3) Chloromethane              | 2.12 | 50  | 73507  | 42.928  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.26 | 62  | 79347  | 45.563  | ug/l | 99     |
| 5) Bromomethane               | 2.66 | 94  | 53477  | 47.054  | ug/l | 97     |
| 6) Chloroethane               | 2.80 | 64  | 52762  | 47.184  | ug/l | 94     |
| 7) Trichlorofluoromethane     | 3.14 | 101 | 112868 | 47.295  | ug/l | 95     |
| 8) Diethyl Ether              | 3.54 | 74  | 46700  | 46.201  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.92 | 101 | 73295  | 46.812  | ug/l | 99     |
| 10) Methyl Iodide             | 4.11 | 142 | 91009  | 48.882  | ug/l | 100    |
| 11) Tert butyl alcohol        | 4.99 | 59  | 31488  | 164.962 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.89 | 96  | 76965  | 48.409  | ug/l | 97     |
| 13) Acrolein                  | 3.75 | 56  | 56359  | 236.235 | ug/l | 100    |
| 14) Allyl chloride            | 4.50 | 41  | 142346 | 48.907  | ug/l | 99     |
| 15) Acrylonitrile             | 5.19 | 53  | 114602 | 216.314 | ug/l | 99     |
| 16) Acetone                   | 3.96 | 43  | 90288  | 198.403 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.21 | 76  | 248838 | 47.161  | ug/l | 99     |
| 18) Methyl Acetate            | 4.50 | 43  | 55915  | 47.317  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.24 | 73  | 209571 | 47.251  | ug/l | 97     |
| 20) Methylene Chloride        | 4.74 | 84  | 93623  | 49.656  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.24 | 96  | 88732  | 49.017  | ug/l | 94     |
| 22) Diisopropyl ether         | 6.14 | 45  | 293442 | 49.265  | ug/l | 96     |
| 23) Vinyl Acetate             | 6.08 | 43  | 866084 | 221.740 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 6.04 | 63  | 157108 | 49.608  | ug/l | 98     |
| 25) 2-Butanone                | 7.00 | 43  | 145185 | 207.773 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.00 | 77  | 125840 | 48.246  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.00 | 96  | 98727  | 49.574  | ug/l | 100    |
| 28) Bromochloromethane        | 7.35 | 49  | 73903  | 51.114  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.36 | 42  | 95638  | 208.754 | ug/l | 99     |
| 30) Chloroform                | 7.52 | 83  | 149546 | 49.818  | ug/l | 99     |
| 31) Cyclohexane               | 7.80 | 56  | 156626 | 46.413  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 7.72 | 97  | 126087 | 50.307  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.93 | 75  | 124452 | 48.278  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.09 | 43  | 65341  | 41.944  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.91 | 117 | 108606 | 49.658  | ug/l | 97     |

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Quant Time: Apr 03 04:15:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y032620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 07:11:05 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 158855   | 46.980  | ug/l   | 98       |
| 40) Benzene                    | 8.18  | 78   | 373680   | 48.937  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.33  | 41   | 29895m   | 37.939  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.25  | 62   | 94822    | 46.773  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.28  | 43   | 125557   | 43.425  | ug/l   | 98       |
| 44) Trichloroethene            | 8.95  | 130  | 88423    | 48.039  | ug/l   | 90       |
| 45) 1,2-Dichloropropane        | 9.23  | 63   | 94458    | 48.583  | ug/l   | 100      |
| 46) Dibromomethane             | 9.32  | 93   | 45835    | 45.904  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.50  | 83   | 114906   | 49.434  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.30  | 41   | 56347    | 43.488  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.31  | 88   | 12007    | 876.308 | ug/l   | 89       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 322788   | 216.809 | ug/l   | 100      |
| 52) Toluene                    | 10.25 | 92   | 226436   | 49.029  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 122925   | 47.646  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.94  | 75   | 147155   | 48.445  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.65 | 97   | 68438    | 46.310  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 97881    | 45.347  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 122496   | 46.915  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.79  | 63   | 281094   | 253.442 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.84 | 43   | 223608   | 213.215 | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.99 | 129  | 73670    | 47.639  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 64299    | 46.485  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.72 | 164  | 75072    | 50.391  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.52 | 112  | 231236   | 49.196  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 77227    | 49.111  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.60 | 91   | 434287   | 49.748  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.70 | 106  | 321529   | 99.615  | ug/l   | 100      |
| 69) o-Xylene                   | 12.03 | 106  | 150558   | 49.172  | ug/l   | 100      |
| 70) Styrene                    | 12.05 | 104  | 263509   | 49.666  | ug/l   | 99       |
| 71) Bromoform                  | 12.21 | 173  | 40000    | 46.443  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.33 | 105  | 409052   | 49.303  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.15 | 43   | 115283   | 44.056  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.59 | 83   | 80089    | 44.859  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 54824m   | 43.821  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 86849    | 49.036  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.67 | 91   | 501555   | 48.713  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.76 | 91   | 280210   | 49.567  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 339065   | 49.534  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 28304    | 43.830  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 287996   | 48.345  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 286621   | 50.164  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 338832   | 49.613  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.26 | 105  | 416386   | 49.201  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 357363   | 49.173  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.37 | 146  | 167994   | 48.486  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 168816   | 48.419  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.70 | 91   | 363411   | 47.993  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.97 | 117  | 69498    | 50.750  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 153452   | 47.958  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 12244    | 42.814  | ug/l   | 99       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.02 | 180  | 97605    | 47.327 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.12 | 225  | 47910    | 47.062 | ug/l  | 99       |
| 95) Naphthalene            | 15.24 | 128  | 219952   | 44.903 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.43 | 180  | 85064    | 45.484 | ug/l  | 99       |

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

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