

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050422\  
 Data File : VY008630.D  
 Acq On : 04 May 2022 23:20  
 Operator : KP/MD  
 Sample : VY0504SBS02  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0504SBS02

Quant Time: May 05 04:40:44 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 01:57:20 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 05/05/2022  
 Supervised By : Mahesh Dadoda 05/05/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 126448              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 203687              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 192596              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 101185              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.142          | 65   | 74129               | 60.318  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 120.640% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 77083               | 57.192  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 114.380% |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 282403              | 59.142  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 118.280% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 98238               | 56.131  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 112.260% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 31659               | 24.981  | ug/l   | 98       |
| 3) Chloromethane             | 2.113          | 50   | 36106               | 24.511  | ug/l   | 93       |
| 4) Vinyl Chloride            | 2.247          | 62   | 40346               | 22.781  | ug/l   | 99       |
| 5) Bromomethane              | 2.643          | 94   | 32346               | 23.154  | ug/l   | 99       |
| 6) Chloroethane              | 2.790          | 64   | 24813               | 21.861  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 56617               | 23.636  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.527          | 74   | 19584               | 25.528  | ug/l   | 74       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 34180               | 24.272  | ug/l   | 94       |
| 10) Methyl Iodide            | 4.088          | 142  | 33337               | 19.096  | ug/l # | 86       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 20805               | 157.148 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 31586               | 23.804  | ug/l # | 79       |
| 13) Acrolein                 | 3.729          | 56   | 19240               | 115.862 | ug/l   | 97       |
| 14) Allyl chloride           | 4.478          | 41   | 40059               | 25.217  | ug/l # | 85       |
| 15) Acrylonitrile            | 5.161          | 53   | 47896               | 136.937 | ug/l   | 96       |
| 16) Acetone                  | 3.942          | 43   | 33881               | 127.949 | ug/l # | 78       |
| 17) Carbon Disulfide         | 4.192          | 76   | 93397               | 24.755  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.472          | 43   | 21805               | 28.110  | ug/l # | 81       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 88187               | 24.101  | ug/l   | 94       |
| 20) Methylene Chloride       | 4.710          | 84   | 53945               | 32.112  | ug/l # | 79       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 37447               | 24.842  | ug/l # | 82       |
| 22) Diisopropyl ether        | 6.118          | 45   | 94176               | 25.680  | ug/l # | 87       |
| 23) Vinyl Acetate            | 6.057          | 43   | 307394              | 128.352 | ug/l # | 85       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 58001               | 25.090  | ug/l   | 97       |
| 25) 2-Butanone               | 6.984          | 43   | 56882               | 133.825 | ug/l # | 77       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 47855               | 21.614  | ug/l   | 91       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 42253               | 24.493  | ug/l   | 79       |
| 28) Bromochloromethane       | 7.326          | 49   | 20829               | 23.564  | ug/l # | 68       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 38359               | 136.068 | ug/l # | 76       |
| 30) Chloroform               | 7.502          | 83   | 62471               | 24.118  | ug/l   | 99       |
| 31) Cyclohexane              | 7.783          | 56   | 53397               | 25.172  | ug/l # | 82       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 54691               | 23.019  | ug/l   | 93       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 46778               | 22.320  | ug/l   | 93       |
| 37) Ethyl Acetate            | 7.076          | 43   | 27133               | 25.245  | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 50280               | 21.028  | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.179          | 83   | 61318               | 22.179  | ug/l # | 86       |
| 40) Benzene                  | 8.161          | 78   | 143308              | 23.673  | ug/l   | 94       |

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 ALS Vial : 35 Sample Multiplier: 1

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 MSVOA\_Y  
 ClientSampleId :  
 VY0504SBS02

Quant Time: May 05 04:40:44 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 01:57:20 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/05/2022  
 Supervised By : Mahesh Dadoda 05/05/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 11249m   | 23.856  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 38835    | 22.164  | ug/l   | 86       |
| 43) Isopropyl Acetate         | 8.270  | 43   | 47147    | 24.109  | ug/l # | 86       |
| 44) Trichloroethene           | 8.941  | 130  | 41139    | 21.664  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 34579    | 24.485  | ug/l   | 92       |
| 46) Dibromomethane            | 9.307  | 93   | 22422    | 22.743  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.496  | 83   | 48324    | 22.496  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 20746    | 24.135  | ug/l # | 75       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 6204     | 496.303 | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 128199   | 124.897 | ug/l # | 82       |
| 52) Toluene                   | 10.246 | 92   | 92895    | 22.958  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 49348    | 21.730  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 56869    | 22.540  | ug/l # | 79       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 32284    | 23.500  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 40852    | 23.540  | ug/l # | 72       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 51563    | 23.512  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 96766    | 109.857 | ug/l # | 89       |
| 59) 2-Hexanone                | 10.831 | 43   | 88112    | 126.051 | ug/l   | 80       |
| 60) Dibromochloromethane      | 10.983 | 129  | 38173    | 22.213  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 32143    | 23.118  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 37640    | 21.424  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.514 | 112  | 103071   | 22.218  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 38300    | 21.868  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.593 | 91   | 173896   | 22.281  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 141421   | 44.356  | ug/l   | 88       |
| 69) o-Xylene                  | 12.032 | 106  | 66992    | 21.924  | ug/l   | 88       |
| 70) Styrene                   | 12.044 | 104  | 111430   | 21.937  | ug/l   | 93       |
| 71) Bromoform                 | 12.209 | 173  | 24816    | 21.314  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 172668   | 21.874  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 41376    | 23.455  | ug/l # | 81       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 38663    | 24.204  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 28557m   | 26.439  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 45440    | 21.818  | ug/l   | 86       |
| 78) n-propylbenzene           | 12.672 | 91   | 204369   | 22.248  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 114486   | 22.137  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 145167   | 22.259  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 11513    | 21.610  | ug/l # | 82       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 120740   | 22.663  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 127679   | 21.858  | ug/l   | 90       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 142586   | 21.996  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 190641   | 22.145  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 157721   | 21.580  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 85405    | 21.203  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 86007    | 21.647  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 140959   | 21.895  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 29563    | 21.840  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 77947    | 21.684  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 5707     | 23.476  | ug/l   | 67       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 46652    | 20.340  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 26546    | 20.494  | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 98093    | 21.327  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 42668    | 20.959  | ug/l   | 98       |

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ALS Vial : 35 Sample Multiplier: 1

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APPROVED

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Supervised By : Mahesh Dadoda 05/05/2022

Quant Time: May 05 04:40:44 2022  
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Quant Title : SW846 8260  
QLast Update : Tue May 03 01:57:20 2022  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

