

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032524\  
 Data File : VY017748.D  
 Acq On : 25 Mar 2024 11:11  
 Operator : SY/MD  
 Sample : VY0325SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0325SBS01

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 03/26/2024  
 Supervised By :Semsettin Yesilyurt 03/26/2024

Quant Time: Mar 26 03:32:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032224S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 04:03:52 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.807          | 168  | 182710     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.710          | 114  | 280602     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.508         | 117  | 246840     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.440         | 152  | 116577     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.161          | 65   | 78852      | 49.538   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 99.080%  |        |          |
| 35) Dibromofluoromethane     | 7.734          | 113  | 84509      | 50.383   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 100.760% |        |          |
| 50) Toluene-d8               | 10.197         | 98   | 332534     | 51.801   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 103.600% |        |          |
| 62) 4-Bromofluorobenzene     | 12.495         | 95   | 100160     | 51.960   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 103.920% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 28614      | 18.140   | ug/l   | 95       |
| 3) Chloromethane             | 2.125          | 50   | 38167      | 18.678   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.266          | 62   | 46044      | 18.636   | ug/l   | 99       |
| 5) Bromomethane              | 2.662          | 94   | 37856      | 19.624   | ug/l   | 96       |
| 6) Chloroethane              | 2.808          | 64   | 30976      | 18.759   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.143          | 101  | 52891      | 20.311   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.540          | 74   | 16157      | 18.819   | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 3.912          | 101  | 34986      | 18.873   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.113          | 142  | 37607      | 16.596   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.978          | 59   | 9535       | 90.061   | ug/l # | 84       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 32208      | 18.471   | ug/l   | 92       |
| 13) Acrolein                 | 3.747          | 56   | 13636      | 106.848  | ug/l   | 98       |
| 14) Allyl chloride           | 4.503          | 41   | 40089      | 16.964   | ug/l   | 98       |
| 15) Acrylonitrile            | 5.186          | 53   | 32740      | 92.054   | ug/l   | 98       |
| 16) Acetone                  | 3.966          | 43   | 25509      | 91.624   | ug/l   | 89       |
| 17) Carbon Disulfide         | 4.210          | 76   | 94918      | 16.268   | ug/l   | 97       |
| 18) Methyl Acetate           | 4.503          | 43   | 12873      | 18.365   | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.241          | 73   | 68399      | 18.193   | ug/l   | 98       |
| 20) Methylene Chloride       | 4.735          | 84   | 39184      | 19.352   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.241          | 96   | 35602      | 17.910   | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.143          | 45   | 90154      | 17.522   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.082          | 43   | 260524     | 86.206   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.039          | 63   | 59975      | 17.734   | ug/l   | 97       |
| 25) 2-Butanone               | 7.009          | 43   | 38420      | 86.618   | ug/l   | 90       |
| 26) 2,2-Dichloropropane      | 7.002          | 77   | 51663      | 17.972   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.009          | 96   | 41058      | 18.260   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.356          | 49   | 24146      | 18.417   | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.368          | 42   | 24609      | 85.666   | ug/l   | 94       |
| 30) Chloroform               | 7.527          | 83   | 62140      | 17.724   | ug/l   | 99       |
| 31) Cyclohexane              | 7.807          | 56   | 51184      | 16.258   | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 7.722          | 97   | 56762      | 18.590   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.941          | 75   | 46440      | 17.922   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.088          | 43   | 18278      | 18.356   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.917          | 117  | 50956      | 18.780   | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.203          | 83   | 58766      | 17.666   | ug/l   | 98       |
| 40) Benzene                  | 8.179          | 78   | 142012     | 18.308   | ug/l   | 98       |

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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
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Quant Time: Mar 26 03:32:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032224S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 04:03:52 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/26/2024  
 Supervised By :Semsettin Yesilyurt 03/26/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 9716     | 19.754  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.252  | 62   | 34831    | 18.748  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.289  | 43   | 32846    | 17.149  | ug/l   | 97       |
| 44) Trichloroethene           | 8.953  | 130  | 39109    | 19.276  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.234  | 63   | 31949    | 18.077  | ug/l   | 99       |
| 46) Dibromomethane            | 9.325  | 93   | 18564    | 18.850  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.514  | 83   | 47057    | 18.687  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.307  | 41   | 15287    | 17.529  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.319  | 88   | 3799     | 396.443 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.087 | 43   | 87561    | 86.480  | ug/l   | 97       |
| 52) Toluene                   | 10.258 | 92   | 90481    | 18.877  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.484 | 75   | 41013    | 18.623  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.947  | 75   | 50233    | 18.672  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.660 | 97   | 24464    | 19.418  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.526 | 69   | 29147    | 17.324  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.807 | 76   | 41283    | 19.024  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.801  | 63   | 81351    | 97.878  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.843 | 43   | 60048    | 87.057  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.002 | 129  | 32879    | 19.511  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.105 | 107  | 23157    | 19.578  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.734 | 164  | 43999    | 19.275  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.532 | 112  | 98958    | 18.624  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.605 | 131  | 33308    | 18.771  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.605 | 91   | 166580   | 18.254  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.715 | 106  | 131650   | 37.189  | ug/l   | 98       |
| 69) o-Xylene                  | 12.044 | 106  | 59688    | 18.468  | ug/l   | 100      |
| 70) Styrene                   | 12.056 | 104  | 100054   | 18.601  | ug/l   | 99       |
| 71) Bromoform                 | 12.221 | 173  | 18389    | 19.678  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.343 | 105  | 159007   | 18.063  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.160 | 43   | 27676    | 16.902  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83   | 25513    | 18.824  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.648 | 75   | 20515m   | 19.057  | ug/l   |          |
| 77) Bromobenzene              | 12.623 | 156  | 36786    | 18.355  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.684 | 91   | 193503   | 18.159  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.770 | 91   | 104018   | 17.801  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.825 | 105  | 125616   | 18.229  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.392 | 75   | 8442     | 18.120  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.867 | 91   | 111066   | 18.524  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.087 | 119  | 115954   | 18.595  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.136 | 105  | 125785   | 18.620  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.270 | 105  | 173884   | 18.605  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.385 | 119  | 143172   | 18.450  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.379 | 146  | 74672    | 18.386  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.459 | 146  | 73316    | 18.805  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.709 | 91   | 129561   | 18.454  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.977 | 117  | 29250    | 18.483  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.751 | 146  | 63456    | 18.862  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75   | 3392     | 18.905  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.019 | 180  | 32308    | 19.824  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.123 | 225  | 21388    | 20.445  | ug/l   | 100      |
| 95) Naphthalene               | 15.251 | 128  | 48949    | 18.004  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.440 | 180  | 27305    | 20.292  | ug/l   | 99       |

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Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 03/26/2024  
Supervised By :Semsettin Yesilyurt 03/26/2024

Quant Time: Mar 26 03:32:28 2024  
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Quant Title : SW846 8260  
QLast Update : Sat Mar 23 04:03:52 2024  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

