

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050924\  
 Data File : VY018204.D  
 Acq On : 09 May 2024 11:42  
 Operator : SY/MD  
 Sample : VY0509SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0509SBS01

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 05/10/2024  
 Supervised By :Semsettin Yesilyurt 05/10/2024

Quant Time: May 10 01:15:21 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050724S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 08 01:40:14 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.783          | 168  | 197333              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 343300              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 299929              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 141880              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.130          | 65   | 78412               | 54.013  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 108.020% |         |        |          |
| 35) Dibromofluoromethane     | 7.710          | 113  | 89569               | 49.645  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 99.280%  |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 339230              | 47.714  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 95.420%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 111354              | 48.499  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 97.000%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 28978               | 18.517  | ug/l   | 100      |
| 3) Chloromethane             | 2.107          | 50   | 40021               | 19.104  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.241          | 62   | 46202               | 18.194  | ug/l   | 95       |
| 5) Bromomethane              | 2.631          | 94   | 36027               | 20.428  | ug/l   | 93       |
| 6) Chloroethane              | 2.784          | 64   | 31956               | 19.828  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.113          | 101  | 54796               | 18.422  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.521          | 74   | 22053               | 22.521  | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 3.887          | 101  | 34707               | 18.308  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.076          | 142  | 41557               | 18.773  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 21455               | 164.082 | ug/l # | 86       |
| 12) 1,1-Dichloroethene       | 3.857          | 96   | 36849               | 19.309  | ug/l   | 92       |
| 13) Acrolein                 | 3.716          | 56   | 17436               | 120.556 | ug/l   | 94       |
| 14) Allyl chloride           | 4.466          | 41   | 51599               | 21.254  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.155          | 53   | 47438               | 125.976 | ug/l   | 98       |
| 16) Acetone                  | 3.936          | 43   | 34149               | 117.875 | ug/l   | 89       |
| 17) Carbon Disulfide         | 4.180          | 76   | 81359               | 15.660  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.472          | 43   | 18070               | 21.896  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.204          | 73   | 99128               | 23.318  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.710          | 84   | 46722               | 22.817  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.210          | 96   | 38820               | 19.190  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.106          | 45   | 112426              | 21.830  | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.051          | 43   | 361342              | 115.438 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.003          | 63   | 66115               | 20.843  | ug/l   | 98       |
| 25) 2-Butanone               | 6.978          | 43   | 57754               | 124.714 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.966          | 77   | 57535               | 20.041  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 51075               | 21.364  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.325          | 49   | 30546               | 24.093  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.338          | 42   | 37443               | 122.490 | ug/l   | 95       |
| 30) Chloroform               | 7.502          | 83   | 70714               | 21.354  | ug/l   | 99       |
| 31) Cyclohexane              | 7.777          | 56   | 52699               | 17.248  | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 7.691          | 97   | 58473               | 19.701  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.911          | 75   | 46535               | 17.992  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.063          | 43   | 25710               | 23.617  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 7.892          | 117  | 50676               | 17.931  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.179          | 83   | 62944               | 16.869  | ug/l   | 96       |
| 40) Benzene                  | 8.155          | 78   | 159869              | 19.216  | ug/l   | 97       |

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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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Manual Integrations  
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Reviewed By :Mahesh Dadoda 05/10/2024  
 Supervised By :Semsettin Yesilyurt 05/10/2024

Quant Time: May 10 01:15:21 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050724S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 08 01:40:14 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.301  | 41   | 13161m   | 20.936  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.228  | 62   | 37410    | 20.667  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.264  | 43   | 51021    | 22.865  | ug/l   | 96       |
| 44) Trichloroethene           | 8.935  | 130  | 42677    | 18.844  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.209  | 63   | 37048    | 20.369  | ug/l   | 98       |
| 46) Dibromomethane            | 9.301  | 93   | 22172    | 21.204  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.496  | 83   | 54331    | 21.018  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.289  | 41   | 21890    | 21.405  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 6656     | 479.554 | ug/l # | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 128589   | 114.658 | ug/l   | 96       |
| 52) Toluene                   | 10.240 | 92   | 105203   | 19.642  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 51341    | 21.263  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 61132    | 20.712  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 31158    | 21.691  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 43002    | 22.043  | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 51641    | 22.090  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.776  | 63   | 105926   | 113.711 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.831 | 43   | 91813    | 117.085 | ug/l   | 96       |
| 60) Dibromochloromethane      | 10.983 | 129  | 39569    | 21.232  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 29233    | 21.607  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 35723    | 17.889  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.514 | 112  | 119590   | 19.577  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 39362    | 19.921  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 196678   | 19.069  | ug/l   | 94       |
| 68) m/p-Xylenes               | 11.703 | 106  | 156303   | 38.322  | ug/l   | 98       |
| 69) o-Xylene                  | 12.026 | 106  | 76757    | 19.610  | ug/l   | 94       |
| 70) Styrene                   | 12.044 | 104  | 129987   | 19.886  | ug/l   | 97       |
| 71) Bromoform                 | 12.209 | 173  | 22072    | 20.189  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 190262   | 17.886  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.142 | 43   | 45367    | 20.545  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 34748    | 20.477  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 23752m   | 20.915  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 47348    | 19.375  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.672 | 91   | 224188   | 18.119  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 126392   | 18.383  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 154972   | 18.475  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.373 | 75   | 12159    | 20.628  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 128687   | 18.633  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 140691   | 18.184  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 154395   | 18.790  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.251 | 105  | 205614   | 18.118  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 172688   | 18.497  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 90801    | 19.240  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 89390    | 19.429  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 158364   | 18.743  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.958 | 117  | 33798    | 18.453  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 80180    | 19.766  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 4624     | 20.012  | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 45425    | 19.919  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 24070    | 19.130  | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 88777    | 21.245  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 39309    | 21.004  | ug/l   | 97       |

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Quant Title : SW846 8260  
QLast Update : Wed May 08 01:40:14 2024  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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