

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092424\  
 Data File : VY019674.D  
 Acq On : 24 Sep 2024 11:45  
 Operator : SY/MD  
 Sample : VY0924SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0924SBS01

Quant Time: Sep 25 01:22:51 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090924S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 09 16:00:30 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/25/2024  
 Supervised By :Semsettin Yesilyurt 09/25/2024

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 417974   | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 699598   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 592081   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152  | 290930   | 50.000 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |       |          |          |            |      |
|---------------------------|--------|-------|----------|----------|------------|------|
| 33) 1,2-Dichloroethane-d4 | 8.061  | 65    | 199909   | 51.651   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | = 103.300% |      |
| 35) Dibromofluoromethane  | 7.634  | 113   | 205091   | 51.705   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | = 103.400% |      |
| 50) Toluene-d8            | 10.109 | 98    | 744541   | 50.747   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 58 - 134 | Recovery | = 101.500% |      |
| 62) 4-Bromofluorobenzene  | 12.408 | 95    | 270330   | 47.920   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 29 - 146 | Recovery | = 95.840%  |      |

#### Target Compounds

|                              |       |     |        |         |      | Qvalue |
|------------------------------|-------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane   | 1.867 | 85  | 56376  | 22.418  | ug/l | 94     |
| 3) Chloromethane             | 2.074 | 50  | 66576  | 19.252  | ug/l | 97     |
| 4) Vinyl Chloride            | 2.208 | 62  | 80059  | 21.410  | ug/l | 98     |
| 5) Bromomethane              | 2.592 | 94  | 56601  | 24.642  | ug/l | 99     |
| 6) Chloroethane              | 2.733 | 64  | 55269  | 22.609  | ug/l | 97     |
| 7) Trichlorofluoromethane    | 3.062 | 101 | 139896 | 22.443  | ug/l | 97     |
| 8) Diethyl Ether             | 3.452 | 74  | 41341  | 19.758  | ug/l | 89     |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 83863  | 21.749  | ug/l | 95     |
| 10) Methyl Iodide            | 4.007 | 142 | 85375  | 17.269  | ug/l | 92     |
| 11) Tert butyl alcohol       | 4.854 | 59  | 36839  | 117.862 | ug/l | # 84   |
| 12) 1,1-Dichloroethene       | 3.793 | 96  | 73473  | 19.813  | ug/l | 93     |
| 13) Acrolein                 | 3.659 | 56  | 16265  | 99.465  | ug/l | 98     |
| 14) Allyl chloride           | 4.385 | 41  | 122734 | 18.456  | ug/l | 94     |
| 15) Acrylonitrile            | 5.055 | 53  | 88532  | 98.130  | ug/l | 97     |
| 16) Acetone                  | 3.873 | 43  | 108512 | 117.685 | ug/l | 88     |
| 17) Carbon Disulfide         | 4.104 | 76  | 165155 | 16.484  | ug/l | 100    |
| 18) Methyl Acetate           | 4.385 | 43  | 42660  | 17.049  | ug/l | 94     |
| 19) Methyl tert-butyl Ether  | 5.110 | 73  | 212665 | 20.248  | ug/l | 99     |
| 20) Methylene Chloride       | 4.616 | 84  | 98167  | 23.345  | ug/l | # 90   |
| 21) trans-1,2-Dichloroethene | 5.110 | 96  | 78930  | 19.419  | ug/l | 89     |
| 22) Diisopropyl ether        | 6.019 | 45  | 270808 | 19.830  | ug/l | 96     |
| 23) Vinyl Acetate            | 5.958 | 43  | 764342 | 97.989  | ug/l | # 93   |
| 24) 1,1-Dichloroethane       | 5.909 | 63  | 155926 | 20.348  | ug/l | 97     |
| 25) 2-Butanone               | 6.890 | 43  | 139684 | 106.516 | ug/l | 89     |
| 26) 2,2-Dichloropropane      | 6.884 | 77  | 151217 | 21.876  | ug/l | 95     |
| 27) cis-1,2-Dichloroethene   | 6.884 | 96  | 100971 | 20.450  | ug/l | 89     |
| 28) Bromochloromethane       | 7.244 | 49  | 60042  | 18.622  | ug/l | 88     |
| 29) Tetrahydrofuran          | 7.262 | 42  | 74630  | 93.598  | ug/l | 88     |
| 30) Chloroform               | 7.421 | 83  | 166356 | 21.266  | ug/l | 100    |
| 31) Cyclohexane              | 7.701 | 56  | 128833 | 18.600  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane    | 7.616 | 97  | 152371 | 21.731  | ug/l | 98     |
| 36) 1,1-Dichloropropene      | 7.835 | 75  | 112005 | 20.752  | ug/l | 97     |
| 37) Ethyl Acetate            | 6.982 | 43  | 53810  | 19.458  | ug/l | 96     |
| 38) Carbon Tetrachloride     | 7.817 | 117 | 129056 | 21.203  | ug/l | 99     |
| 39) Methylcyclohexane        | 9.109 | 83  | 138648 | 19.303  | ug/l | 89     |
| 40) Benzene                  | 8.079 | 78  | 338111 | 20.338  | ug/l | 98     |

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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0924SBS01

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 09/25/2024  
 Supervised By :Semsettin Yesilyurt 09/25/2024

Quant Time: Sep 25 01:22:51 2024  
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 Quant Title : SW846 8260  
 QLast Update : Mon Sep 09 16:00:30 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.220  | 41   | 34672    | 21.508  | ug/l # | 78       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 95502    | 21.349  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.195  | 43   | 115226   | 19.832  | ug/l   | 90       |
| 44) Trichloroethene           | 8.866  | 130  | 87851    | 20.548  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 82994    | 20.421  | ug/l   | 99       |
| 46) Dibromomethane            | 9.231  | 93   | 45854    | 20.632  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.427  | 83   | 126740   | 21.214  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.219  | 41   | 50577    | 18.434  | ug/l   | 85       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 10545    | 403.036 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 288723   | 98.776  | ug/l   | 92       |
| 52) Toluene                   | 10.170 | 92   | 220755   | 20.647  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 112654   | 19.781  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 131629   | 19.849  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 64621    | 21.055  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.445 | 69   | 90680    | 19.450  | ug/l # | 80       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 108540   | 20.573  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 202352   | 93.512  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.762 | 43   | 217831   | 101.650 | ug/l   | 90       |
| 60) Dibromochloromethane      | 10.914 | 129  | 85095    | 20.959  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 58369    | 20.411  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.652 | 164  | 76909    | 20.976  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.444 | 112  | 246102   | 21.131  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 84806    | 21.031  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.524 | 91   | 443493   | 21.431  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.633 | 106  | 333798   | 42.658  | ug/l   | 94       |
| 69) o-Xylene                  | 11.957 | 106  | 160637   | 20.991  | ug/l   | 96       |
| 70) Styrene                   | 11.975 | 104  | 269589   | 20.866  | ug/l   | 97       |
| 71) Bromoform                 | 12.133 | 173  | 47163    | 20.477  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.255 | 105  | 439427   | 20.820  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 106543   | 18.561  | ug/l   | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83   | 74530    | 19.895  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 58041m   | 21.285  | ug/l   |          |
| 77) Bromobenzene              | 12.536 | 156  | 93391    | 19.951  | ug/l   | 92       |
| 78) n-propylbenzene           | 12.597 | 91   | 526324   | 21.039  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 295291   | 20.255  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 352462   | 20.542  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 25477    | 17.936  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 12.780 | 91   | 302904   | 20.209  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 12.999 | 119  | 327981   | 21.115  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 350595   | 20.642  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 481300   | 21.329  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 394125   | 21.347  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.292 | 146  | 190706   | 20.966  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 187369   | 20.757  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.621 | 91   | 380463   | 21.556  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.883 | 117  | 79716    | 20.751  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.664 | 146  | 169516   | 20.885  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 12089    | 19.362  | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 99220    | 20.099  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 58173    | 22.058  | ug/l   | 98       |
| 95) Naphthalene               | 15.145 | 128  | 184989   | 18.712  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 86074    | 20.384  | ug/l   | 97       |

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Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 4 Sample Multiplier: 1

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APPROVED

Reviewed By :Mahesh Dadoda 09/25/2024  
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Quant Time: Sep 25 01:22:51 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090924S.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 09 16:00:30 2024  
Response via : Initial Calibration

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

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

