

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY010924\  
 Data File : VY016961.D  
 Acq On : 09 Jan 2024 20:04  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.01g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2024  
 Supervised By :Semsettin Yesilyurt 01/10/2024

Quant Time: Jan 10 02:33:02 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010224S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 02 14:25:32 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.807          | 168  | 107718              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.709          | 114  | 187768              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.502         | 117  | 165024              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.440         | 152  | 74404               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.161          | 65   | 61953               | 58.191  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 116.380% |         |        |          |
| 35) Dibromofluoromethane     | 7.740          | 113  | 64532               | 53.933  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 107.860% |         |        |          |
| 50) Toluene-d8               | 10.197         | 98   | 223572              | 54.262  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 108.520% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.495         | 95   | 76101               | 54.744  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 109.480% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 30352               | 36.368  | ug/l   | 97       |
| 3) Chloromethane             | 2.125          | 50   | 56303               | 44.495  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.259          | 62   | 68760               | 46.068  | ug/l   | 99       |
| 5) Bromomethane              | 2.662          | 94   | 53567               | 50.096  | ug/l   | 96       |
| 6) Chloroethane              | 2.808          | 64   | 48902               | 48.434  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.143          | 101  | 81327               | 44.222  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.546          | 74   | 30470               | 51.844  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 3.918          | 101  | 50862               | 42.535  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.113          | 142  | 47681               | 46.870  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 24354               | 324.319 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 3.893          | 96   | 45178               | 44.034  | ug/l   | 99       |
| 13) Acrolein                 | 3.747          | 56   | 28052               | 241.347 | ug/l   | 100      |
| 14) Allyl chloride           | 4.503          | 41   | 77764               | 47.945  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.186          | 53   | 77198               | 280.814 | ug/l   | 99       |
| 16) Acetone                  | 3.966          | 43   | 71268               | 273.916 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.216          | 76   | 100028              | 40.803  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.497          | 43   | 72093               | 63.205  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.240          | 73   | 151239              | 56.660  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.741          | 84   | 71629               | 52.656  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.247          | 96   | 55910               | 47.581  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.143          | 45   | 199751              | 53.270  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.082          | 43   | 449480              | 261.422 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.039          | 63   | 112612              | 49.975  | ug/l   | 98       |
| 25) 2-Butanone               | 7.008          | 43   | 103896              | 287.418 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.002          | 77   | 93214               | 47.710  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.008          | 96   | 70379               | 51.094  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.356          | 49   | 51477               | 60.851  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.368          | 42   | 63715               | 295.689 | ug/l   | 100      |
| 30) Chloroform               | 7.527          | 83   | 120382              | 51.841  | ug/l   | 99       |
| 31) Cyclohexane              | 7.807          | 56   | 74840               | 40.957  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.722          | 97   | 96398               | 48.959  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.941          | 75   | 77804               | 44.618  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.094          | 43   | 43101               | 54.390  | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 7.923          | 117  | 81242               | 45.857  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.203          | 83   | 80469               | 41.049  | ug/l   | 98       |
| 40) Benzene                  | 8.179          | 78   | 250534              | 47.895  | ug/l   | 99       |

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 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
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Reviewed By :Mahesh Dadoda 01/10/2024  
 Supervised By :Semsettin Yesilyurt 01/10/2024

Quant Time: Jan 10 02:33:02 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010224S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 02 14:25:32 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.325  | 41   | 24898    | 59.657   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.258  | 62   | 71912    | 51.784   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.289  | 43   | 84051    | 55.388   | ug/l   | 99       |
| 44) Trichloroethene           | 8.959  | 130  | 62389    | 46.872   | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.234  | 63   | 66797    | 49.567   | ug/l   | 100      |
| 46) Dibromomethane            | 9.319  | 93   | 36263    | 52.762   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.514  | 83   | 93532    | 50.679   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.307  | 41   | 45303    | 55.318   | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.319  | 88   | 8491     | 1193.170 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.081 | 43   | 235946   | 292.361  | ug/l   | 99       |
| 52) Toluene                   | 10.258 | 92   | 154733   | 49.014   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.477 | 75   | 84919    | 51.368   | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene   | 9.941  | 75   | 99647    | 50.192   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.660 | 97   | 52905    | 52.690   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.520 | 69   | 48947    | 57.554   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.807 | 76   | 87434    | 52.156   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.795  | 63   | 149953   | 278.097  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.843 | 43   | 164457   | 276.749  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.002 | 129  | 60704    | 52.425   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.099 | 107  | 47118    | 54.011   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.733 | 164  | 49489    | 46.257   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.532 | 112  | 165204   | 48.056   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.605 | 131  | 65067    | 49.790   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.605 | 91   | 298466   | 48.224   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.715 | 106  | 220263   | 96.956   | ug/l   | 99       |
| 69) o-Xylene                  | 12.044 | 106  | 104510   | 49.072   | ug/l   | 98       |
| 70) Styrene                   | 12.056 | 104  | 157236   | 50.727   | ug/l   | 99       |
| 71) Bromoform                 | 12.221 | 173  | 34266    | 53.263   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.343 | 105  | 280807   | 46.217   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.154 | 43   | 65791    | 53.895   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83   | 63138    | 51.001   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.642 | 75   | 44498m   | 55.111   | ug/l   |          |
| 77) Bromobenzene              | 12.623 | 156  | 63196    | 47.241   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.684 | 91   | 335796   | 45.461   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.770 | 91   | 190749   | 46.570   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.824 | 105  | 225321   | 46.890   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.392 | 75   | 17970    | 50.538   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.867 | 91   | 196796   | 47.029   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.087 | 119  | 194657   | 45.992   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.135 | 105  | 227477   | 48.069   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.263 | 105  | 280917   | 44.794   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.379 | 119  | 236791   | 45.750   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.379 | 146  | 122149   | 46.558   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.459 | 146  | 119039   | 46.390   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.708 | 91   | 219675   | 44.144   | ug/l   | 100      |
| 90) Hexachloroethane          | 13.971 | 117  | 48610    | 43.707   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.751 | 146  | 107584   | 47.451   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75   | 7956     | 51.249   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.019 | 180  | 52615    | 46.733   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.123 | 225  | 27738    | 39.328   | ug/l   | 98       |
| 95) Naphthalene               | 15.251 | 128  | 109053   | 52.770   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.440 | 180  | 44787    | 46.849   | ug/l   | 98       |

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ALS Vial : 24 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2024  
Supervised By :Semsettin Yesilyurt 01/10/2024

Quant Time: Jan 10 02:33:02 2024  
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Quant Title : SW846 8260  
QLast Update : Tue Jan 02 14:25:32 2024  
Response via : Initial Calibration

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

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

