

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032924\  
 Data File : VY017792.D  
 Acq On : 29 Mar 2024 15:33  
 Operator : SY/MD  
 Sample : VSTDICC020  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC020

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 04/01/2024  
 Supervised By :Semsettin Yesilyurt 04/01/2024

Quant Time: Mar 30 05:44:30 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032924S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 30 05:41:07 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 267174     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 419982     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 359332     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.434         | 152  | 165226     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 40448      | 17.495   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 35.000%# |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 43877      | 18.080   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 36.160%# |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 161959     | 17.866   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 35.740%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.489         | 95   | 49926      | 18.102   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 36.200%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 32683      | 18.292   | ug/l   | 97       |
| 3) Chloromethane             | 2.113          | 50   | 61157      | 17.537   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.253          | 62   | 80503      | 17.664   | ug/l   | 97       |
| 5) Bromomethane              | 2.644          | 94   | 65345      | 17.733   | ug/l   | 100      |
| 6) Chloroethane              | 2.796          | 64   | 53222      | 17.898   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 81790      | 18.403   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.528          | 74   | 23647      | 18.113   | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 49619      | 18.616   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.095          | 142  | 50075      | 17.276   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 4.954          | 59   | 20926      | 108.986  | ug/l # | 98       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 44899      | 18.002   | ug/l   | 97       |
| 13) Acrolein                 | 3.729          | 56   | 17092      | 105.522  | ug/l   | 98       |
| 14) Allyl chloride           | 4.479          | 41   | 54609      | 17.847   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.161          | 53   | 48478      | 87.968   | ug/l   | 97       |
| 16) Acetone                  | 3.948          | 43   | 38445      | 80.446   | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.198          | 76   | 119771     | 16.969   | ug/l   | 97       |
| 18) Methyl Acetate           | 4.485          | 43   | 19286      | 18.220   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.229          | 73   | 101970     | 17.856   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.722          | 84   | 64942      | 20.615   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 48069      | 18.010   | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.119          | 45   | 129414     | 18.298   | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.064          | 43   | 377638     | 87.455   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 85199      | 18.150   | ug/l   | 99       |
| 25) 2-Butanone               | 6.990          | 43   | 57721      | 84.784   | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 71788      | 17.706   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 55729      | 17.668   | ug/l   | 95       |
| 28) Bromochloromethane       | 7.338          | 49   | 35399      | 18.544   | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 35022      | 85.733   | ug/l   | 99       |
| 30) Chloroform               | 7.515          | 83   | 88393      | 18.149   | ug/l   | 99       |
| 31) Cyclohexane              | 7.789          | 56   | 72574      | 17.819   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 74693      | 18.019   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 63811      | 18.021   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.082          | 43   | 25689      | 16.811   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 66908      | 18.202   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.191          | 83   | 76128      | 17.212   | ug/l   | 94       |
| 40) Benzene                  | 8.167          | 78   | 196207     | 17.980   | ug/l   | 98       |

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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 15288m   | 19.612  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 48721    | 18.139  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 47325    | 17.066  | ug/l # | 86       |
| 44) Trichloroethene           | 8.947  | 130  | 51494    | 18.137  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 45803    | 18.063  | ug/l   | 98       |
| 46) Dibromomethane            | 9.313  | 93   | 25707    | 17.844  | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.502  | 83   | 66063    | 18.148  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.301  | 41   | 20693    | 19.481  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 5604     | 346.511 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 128709   | 101.480 | ug/l   | 99       |
| 52) Toluene                   | 10.252 | 92   | 120144   | 18.151  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 57223    | 17.705  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 70139    | 17.781  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 34692    | 18.072  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 41845    | 19.856  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 58784    | 18.106  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 112219   | 101.841 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.837 | 43   | 86619    | 98.733  | ug/l   | 97       |
| 60) Dibromochloromethane      | 10.990 | 129  | 43211    | 17.848  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 31381    | 17.928  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.727 | 164  | 58376    | 18.626  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.520 | 112  | 133590   | 18.123  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131  | 44286    | 17.694  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.599 | 91   | 222732   | 17.578  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.709 | 106  | 169947   | 35.365  | ug/l   | 97       |
| 69) o-Xylene                  | 12.038 | 106  | 79188    | 21.216  | ug/l   | 98       |
| 70) Styrene                   | 12.050 | 104  | 131636   | 20.719  | ug/l   | 99       |
| 71) Bromoform                 | 12.215 | 173  | 24020    | 17.314  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.337 | 105  | 205291   | 17.730  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 39212    | 19.944  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 34805    | 17.377  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 27360m   | 18.147  | ug/l   |          |
| 77) Bromobenzene              | 12.617 | 156  | 49119    | 17.811  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.678 | 91   | 255493   | 18.083  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 138755   | 17.929  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 162722   | 18.007  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 11647    | 19.855  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 145350   | 18.138  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.081 | 119  | 146250   | 17.801  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.130 | 105  | 160904   | 17.878  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.258 | 105  | 225896   | 18.319  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 187279   | 18.170  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 96248    | 17.589  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 94297    | 18.004  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.703 | 91   | 170775   | 18.009  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 37221    | 18.161  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 81546    | 17.978  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 4596     | 16.980  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 44567    | 17.939  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 28211    | 18.731  | ug/l   | 99       |
| 95) Naphthalene               | 15.245 | 128  | 68677    | 19.654  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 37571    | 17.903  | ug/l   | 99       |

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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

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