

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY120423\  
 Data File : VY016577.D  
 Acq On : 04 Dec 2023 14:16  
 Operator : SY/MD  
 Sample : VSTDICC150  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC150

Quant Time: Dec 05 01:10:01 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 05 00:54:37 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/05/2023  
 Supervised By :Semsettin Yesilyurt 12/05/2023

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 7.807          | 168  | 239818               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.703          | 114  | 354705               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.502         | 117  | 308010               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.434         | 152  | 146553               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.155          | 65   | 338469               | 152.700 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 305.400%# |         |        |          |
| 35) Dibromofluoromethane     | 7.734          | 113  | 322828               | 151.234 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 302.460%# |         |        |          |
| 50) Toluene-d8               | 10.191         | 98   | 1251689              | 155.021 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 310.040%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.495         | 95   | 418453               | 157.593 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 315.180%# |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 289878               | 136.839 | ug/l   | 97       |
| 3) Chloromethane             | 2.119          | 50   | 304247               | 138.445 | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.259          | 62   | 319360               | 143.903 | ug/l   | 96       |
| 5) Bromomethane              | 2.650          | 94   | 203721               | 146.546 | ug/l   | 98       |
| 6) Chloroethane              | 2.802          | 64   | 200690               | 146.401 | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 604639               | 144.120 | ug/l   | 100      |
| 8) Diethyl Ether             | 3.546          | 74   | 180530               | 154.503 | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 3.912          | 101  | 343016               | 146.204 | ug/l   | 98       |
| 10) Methyl Iodide            | 4.107          | 142  | 383942               | 154.887 | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.972          | 59   | 125550               | 831.328 | ug/l # | 80       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 315309               | 147.944 | ug/l   | 93       |
| 13) Acrolein                 | 3.741          | 56   | 175892               | 801.109 | ug/l   | 100      |
| 14) Allyl chloride           | 4.497          | 41   | 490444               | 150.788 | ug/l   | 98       |
| 15) Acrylonitrile            | 5.180          | 53   | 369266               | 783.001 | ug/l   | 98       |
| 16) Acetone                  | 3.960          | 43   | 338720               | 675.299 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.216          | 76   | 863242               | 144.468 | ug/l   | 100      |
| 18) Methyl Acetate           | 4.491          | 43   | 331051               | 166.507 | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.241          | 73   | 840886               | 160.503 | ug/l   | 99       |
| 20) Methylene Chloride       | 4.741          | 84   | 318327               | 150.746 | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.241          | 96   | 348936               | 145.592 | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.137          | 45   | 999188               | 149.372 | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.076          | 43   | 2477849              | 771.616 | ug/l # | 95       |
| 24) 1,1-Dichloroethane       | 6.039          | 63   | 593912               | 144.519 | ug/l   | 97       |
| 25) 2-Butanone               | 7.002          | 43   | 502731               | 728.894 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.002          | 77   | 568491               | 147.145 | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.008          | 96   | 392265               | 148.690 | ug/l   | 95       |
| 28) Bromochloromethane       | 7.350          | 49   | 241506               | 145.083 | ug/l   | 87       |
| 29) Tetrahydrofuran          | 7.362          | 42   | 320582               | 815.249 | ug/l   | 93       |
| 30) Chloroform               | 7.527          | 83   | 638557               | 145.767 | ug/l   | 95       |
| 31) Cyclohexane              | 7.801          | 56   | 524461               | 138.601 | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 7.722          | 97   | 611235               | 147.434 | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.935          | 75   | 491126               | 151.355 | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.094          | 43   | 219483               | 161.648 | ug/l # | 96       |
| 38) Carbon Tetrachloride     | 7.917          | 117  | 570911               | 151.980 | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.197          | 83   | 618416               | 158.183 | ug/l   | 94       |
| 40) Benzene                  | 8.179          | 78   | 1370239              | 149.817 | ug/l   | 99       |

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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC150

Quant Time: Dec 05 01:10:01 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 05 00:54:37 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/05/2023  
 Supervised By :Semsettin Yesilyurt 12/05/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 121225   | 158.546  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.252  | 62   | 407083   | 153.286  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.289  | 43   | 438066   | 167.246  | ug/l   | 94       |
| 44) Trichloroethene           | 8.953  | 130  | 412866   | 149.686  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.228  | 63   | 334050   | 151.706  | ug/l   | 97       |
| 46) Dibromomethane            | 9.319  | 93   | 185819   | 153.934  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.508  | 83   | 489818   | 152.416  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.307  | 41   | 258746   | 171.050  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.313  | 88   | 42045    | 3441.163 | ug/l # | 48       |
| 51) 4-Methyl-2-Pentanone      | 10.081 | 43   | 1136254  | 834.733  | ug/l   | 94       |
| 52) Toluene                   | 10.258 | 92   | 877174   | 153.023  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.477 | 75   | 489584   | 161.423  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.941  | 75   | 558565   | 156.812  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.654 | 97   | 261593   | 155.570  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.520 | 69   | 267024   | 173.243  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 10.801 | 76   | 447019   | 157.368  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.795  | 63   | 833699   | 877.709  | ug/l   | 92       |
| 59) 2-Hexanone                | 10.843 | 43   | 821408   | 797.685  | ug/l   | 93       |
| 60) Dibromochloromethane      | 10.996 | 129  | 347635   | 154.730  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.099 | 107  | 252280   | 159.513  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.733 | 164  | 429892   | 152.291  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.526 | 112  | 948356   | 152.016  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131  | 369740   | 151.638  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.605 | 91   | 1715396  | 153.319  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.715 | 106  | 1305427  | 307.349  | ug/l   | 95       |
| 69) o-Xylene                  | 12.038 | 106  | 612400   | 154.451  | ug/l   | 98       |
| 70) Styrene                   | 12.056 | 104  | 901743   | 158.508  | ug/l   | 99       |
| 71) Bromoform                 | 12.221 | 173  | 209938   | 159.451  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.343 | 105  | 1670603  | 153.947  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.154 | 43   | 371690   | 171.773  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83   | 264192   | 153.065  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.642 | 75   | 205553m  | 151.488  | ug/l   |          |
| 77) Bromobenzene              | 12.617 | 156  | 396562   | 155.055  | ug/l   | 92       |
| 78) n-propylbenzene           | 12.684 | 91   | 1912339  | 151.403  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.770 | 91   | 1081277  | 151.917  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.825 | 105  | 1353841  | 153.536  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.392 | 75   | 94448    | 160.936  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.867 | 91   | 1112413  | 151.043  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.087 | 119  | 1207889  | 153.316  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.129 | 105  | 1337065  | 155.240  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.263 | 105  | 1665764  | 150.541  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.379 | 119  | 1480294  | 154.114  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.379 | 146  | 746250   | 152.852  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.459 | 146  | 731902   | 152.753  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.709 | 91   | 1336412  | 154.712  | ug/l   | 95       |
| 90) Hexachloroethane          | 13.971 | 117  | 289582   | 153.224  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.751 | 146  | 654246   | 156.083  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75   | 47613    | 172.381  | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 15.019 | 180  | 429811   | 181.716  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.123 | 225  | 235988   | 157.915  | ug/l   | 98       |
| 95) Naphthalene               | 15.245 | 128  | 808593   | 150.839  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.434 | 180  | 362091   | 150.758  | ug/l   | 98       |

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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 12/05/2023  
Supervised By :Semsettin Yesilyurt 12/05/2023

Quant Time: Dec 05 01:10:01 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120423S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 05 00:54:37 2023  
Response via : Initial Calibration

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

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

