

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111724\  
 Data File : VY020319.D  
 Acq On : 17 Nov 2024 12:31  
 Operator : SY/MD  
 Sample : VSTDICC020  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC020

Quant Time: Nov 18 01:50:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111724S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 18 01:33:11 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024  
 Supervised By :Semsettin Yesilyurt 11/18/2024

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.713  | 168  | 325547   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 483654   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 463762   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152  | 168187   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.067  | 65    | 61518    | 17.173   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 34.340%# |
| 35) Dibromofluoromethane    | 7.634  | 113   | 69558    | 20.603   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 41.200%# |
| 50) Toluene-d8              | 10.109 | 98    | 288054   | 23.646   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 47.300%# |
| 62) 4-Bromofluorobenzene    | 12.408 | 95    | 74837    | 20.215   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 29 - 146 | Recovery | =    | 40.420%  |

|                              |       |     |        |         |        |     |
|------------------------------|-------|-----|--------|---------|--------|-----|
| Target Compounds             |       |     |        |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 1.867 | 85  | 40673  | 16.513  | ug/l   | 100 |
| 3) Chloromethane             | 2.074 | 50  | 75935  | 17.913  | ug/l   | 98  |
| 4) Vinyl Chloride            | 2.208 | 62  | 85581  | 18.290  | ug/l   | 100 |
| 5) Bromomethane              | 2.598 | 94  | 50911  | 17.961  | ug/l   | 99  |
| 6) Chloroethane              | 2.739 | 64  | 55215  | 18.785  | ug/l   | 94  |
| 7) Trichlorofluoromethane    | 3.062 | 101 | 126546 | 19.725  | ug/l   | 96  |
| 8) Diethyl Ether             | 3.464 | 74  | 29971  | 19.078  | ug/l   | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 55941  | 17.867  | ug/l   | 98  |
| 10) Methyl Iodide            | 4.013 | 142 | 56877  | 17.837  | ug/l   | 99  |
| 11) Tert butyl alcohol       | 4.866 | 59  | 19353  | 99.744  | ug/l # | 90  |
| 12) 1,1-Dichloroethene       | 3.793 | 96  | 55105  | 17.996  | ug/l   | 94  |
| 13) Acrolein                 | 3.653 | 56  | 29914  | 93.863  | ug/l   | 96  |
| 14) Allyl chloride           | 4.397 | 41  | 98855  | 18.413  | ug/l   | 98  |
| 15) Acrylonitrile            | 5.067 | 53  | 67452  | 95.426  | ug/l   | 96  |
| 16) Acetone                  | 3.873 | 43  | 72721  | 87.498  | ug/l   | 99  |
| 17) Carbon Disulfide         | 4.116 | 76  | 170377 | 17.653  | ug/l   | 100 |
| 18) Methyl Acetate           | 4.397 | 43  | 33118  | 19.503  | ug/l   | 97  |
| 19) Methyl tert-butyl Ether  | 5.128 | 73  | 153273 | 19.518  | ug/l   | 99  |
| 20) Methylene Chloride       | 4.622 | 84  | 65791  | 19.285  | ug/l   | 94  |
| 21) trans-1,2-Dichloroethene | 5.128 | 96  | 65167  | 18.870  | ug/l   | 98  |
| 22) Diisopropyl ether        | 6.025 | 45  | 214967 | 17.522  | ug/l   | 98  |
| 23) Vinyl Acetate            | 5.970 | 43  | 619720 | 88.991  | ug/l   | 98  |
| 24) 1,1-Dichloroethane       | 5.921 | 63  | 135644 | 18.709  | ug/l   | 99  |
| 25) 2-Butanone               | 6.902 | 43  | 136980 | 114.634 | ug/l   | 98  |
| 26) 2,2-Dichloropropane      | 6.890 | 77  | 130506 | 21.495  | ug/l   | 99  |
| 27) cis-1,2-Dichloroethene   | 6.896 | 96  | 93270  | 21.633  | ug/l   | 95  |
| 28) Bromochloromethane       | 7.250 | 49  | 57667  | 17.137  | ug/l   | 98  |
| 29) Tetrahydrofuran          | 7.268 | 42  | 65001  | 89.268  | ug/l   | 97  |
| 30) Chloroform               | 7.427 | 83  | 161777 | 20.275  | ug/l   | 97  |
| 31) Cyclohexane              | 7.707 | 56  | 142065 | 19.539  | ug/l   | 94  |
| 32) 1,1,1-Trichloroethane    | 7.622 | 97  | 140617 | 19.748  | ug/l   | 100 |
| 36) 1,1-Dichloropropene      | 7.841 | 75  | 104420 | 20.486  | ug/l   | 100 |
| 37) Ethyl Acetate            | 6.988 | 43  | 51826  | 21.708  | ug/l   | 98  |
| 38) Carbon Tetrachloride     | 7.823 | 117 | 112419 | 20.479  | ug/l   | 99  |
| 39) Methylcyclohexane        | 9.109 | 83  | 123332 | 18.625  | ug/l   | 98  |
| 40) Benzene                  | 8.085 | 78  | 279279 | 19.575  | ug/l   | 98  |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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 Supervised By :Semsettin Yesilyurt 11/18/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.238  | 41   | 26610m   | 19.582  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.164  | 62   | 79289    | 20.705  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.201  | 43   | 91083    | 21.624  | ug/l   | 97       |
| 44) Trichloroethene           | 8.866  | 130  | 69252    | 19.623  | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.146  | 63   | 67847    | 19.404  | ug/l   | 99       |
| 46) Dibromomethane            | 9.231  | 93   | 37478    | 20.126  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.426  | 83   | 115512   | 22.105  | ug/l   | 94       |
| 48) Methyl methacrylate       | 9.225  | 41   | 42214    | 19.978  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.237  | 88   | 7978     | 414.817 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 238960   | 100.415 | ug/l   | 100      |
| 52) Toluene                   | 10.170 | 92   | 221763   | 24.982  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 108757   | 22.109  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 99866    | 18.330  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 60404    | 22.777  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 89071    | 23.496  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 108002   | 23.190  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 151918   | 98.231  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.762 | 43   | 222259   | 122.128 | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.914 | 129  | 76314    | 23.341  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 53788    | 24.063  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.646 | 164  | 78280    | 20.235  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.444 | 112  | 217471   | 21.182  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 70071    | 20.913  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.517 | 91   | 394116   | 20.833  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.627 | 106  | 268609   | 39.136  | ug/l   | 95       |
| 69) o-Xylene                  | 11.956 | 106  | 116523   | 18.031  | ug/l   | 97       |
| 70) Styrene                   | 11.975 | 104  | 202798   | 18.525  | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 36046    | 20.739  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.255 | 105  | 309104   | 20.469  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 77883    | 20.648  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 53936    | 21.748  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 39545m   | 20.764  | ug/l   |          |
| 77) Bromobenzene              | 12.536 | 156  | 62267    | 20.242  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.597 | 91   | 368939   | 20.222  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 205320   | 19.738  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 240295   | 19.371  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 16705    | 20.854  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 214353   | 20.008  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999 | 119  | 210377   | 18.855  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 237704   | 19.779  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 321580   | 20.305  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 263436   | 20.981  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.285 | 146  | 126074   | 20.824  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 123472   | 20.428  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.621 | 91   | 252353   | 18.906  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.883 | 117  | 50880    | 19.464  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.663 | 146  | 109172   | 19.543  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75   | 7987     | 21.082  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 14.925 | 180  | 57715    | 19.122  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 30921    | 19.044  | ug/l   | 98       |
| 95) Naphthalene               | 15.151 | 128  | 105635   | 20.446  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.334 | 180  | 47317    | 19.396  | ug/l   | 98       |

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

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

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