

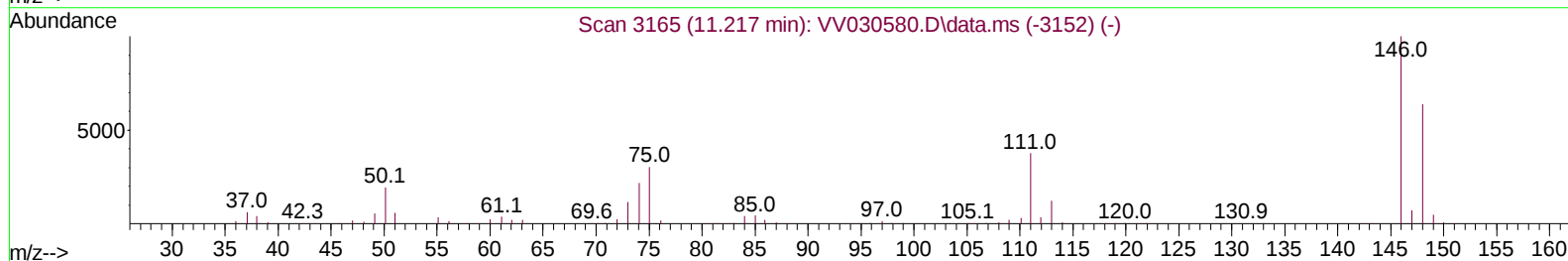
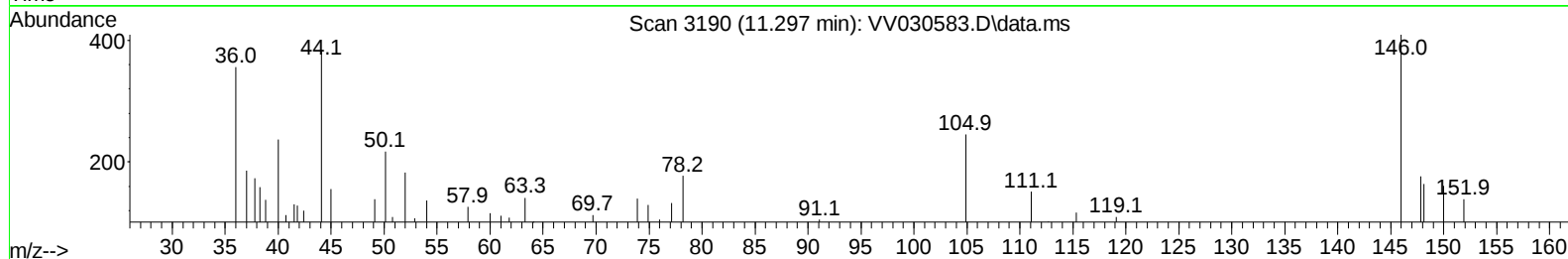
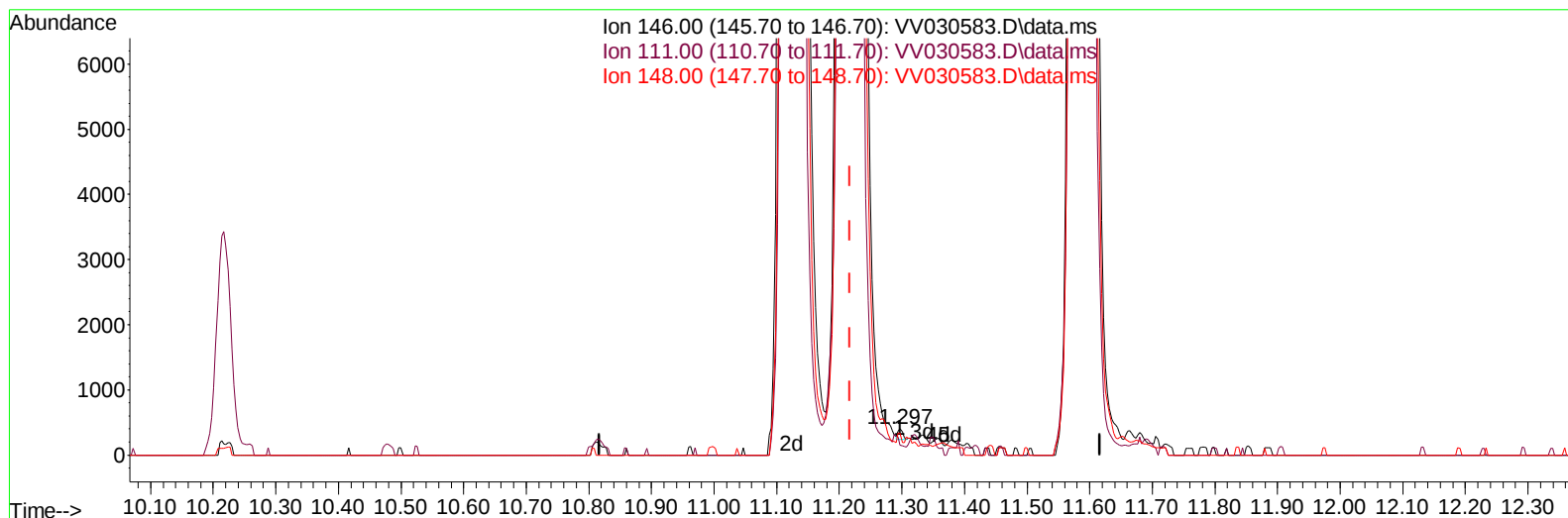
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV041723\  
Data File : VV030583.D  
Acq On : 17 Apr 2023 12:30  
Operator : SY/MD  
Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VICV220

## Manual IntegrationsAPPROVED

Reviewed By :John Carlone 04/18/2023  
Supervised By :Mahesh Dadoda 04/18/2023

Quant Time: Apr 18 02:39:28 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM041723WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 18 02:32:01 2023  
Response via : Initial Calibration



TIC: VV030583.D\data.ms

## (65) 1,4-Dichlorobenzene (T)

11.297min (+ 0.081) 0.02 ug/L

response 89

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 146.00 | 100.00 | 100.00 |
| 111.00 | 37.80  | 36.92  |
| 148.00 | 63.90  | 83.13# |
| 0.00   | 0.00   | 0.00   |

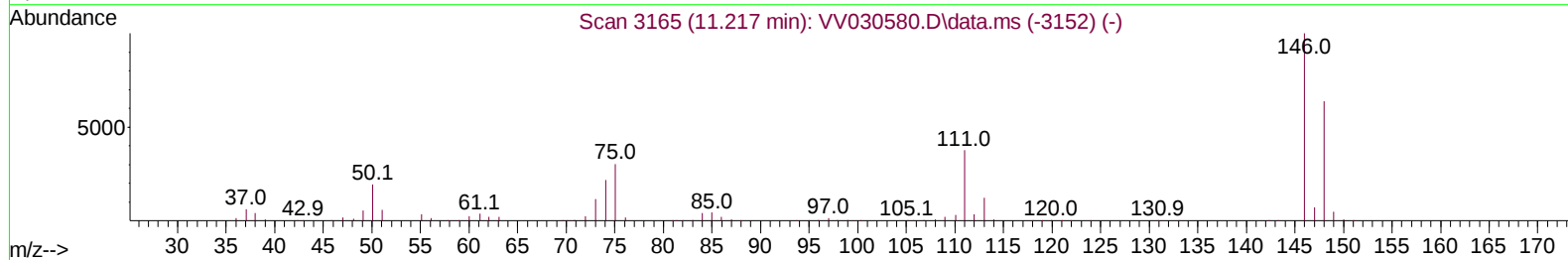
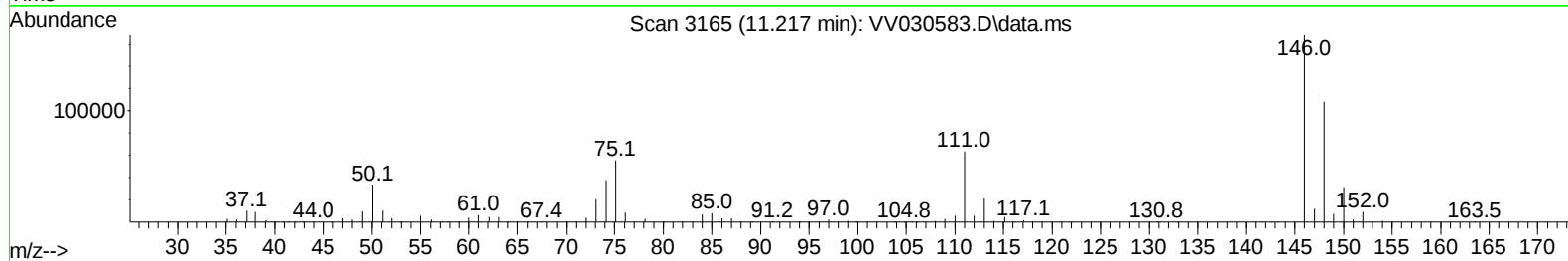
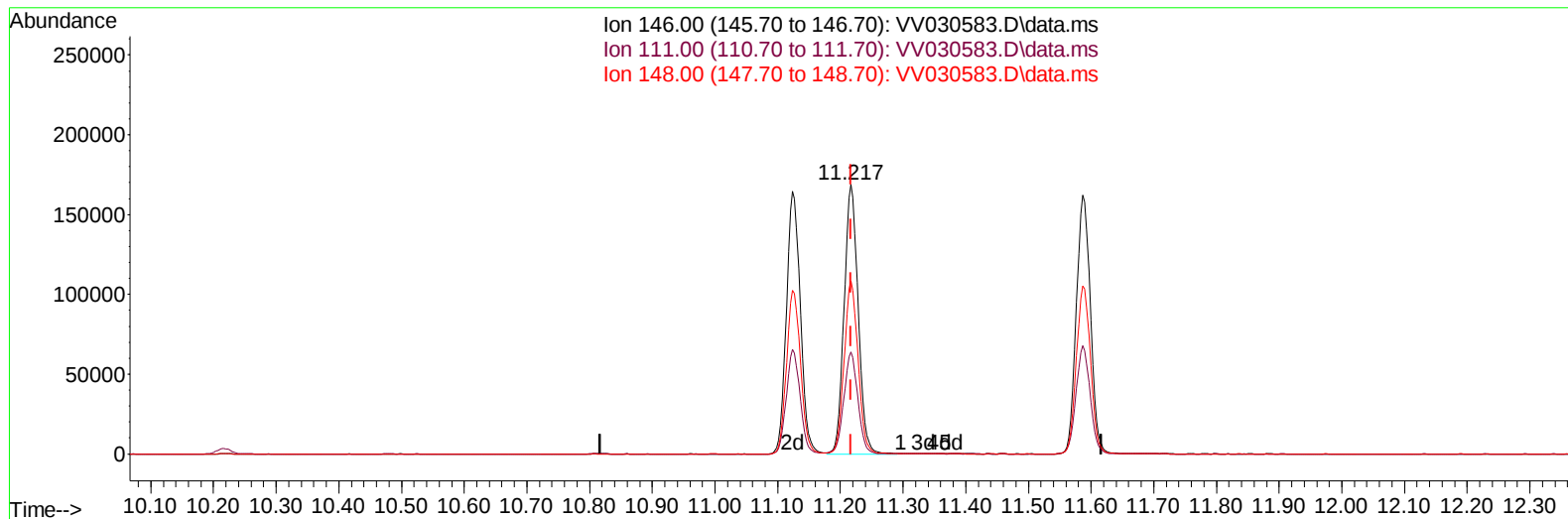
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TIC: VV030583.D\data.ms

**(65) 1,4-Dichlorobenzene (T)**

11.217min (+ 0.000) 50.15 ug/L m

response 262820

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 146.00 | 100.00 | 100.00 |
| 111.00 | 37.80  | 37.77  |
| 148.00 | 63.90  | 64.14  |
| 0.00   | 0.00   | 0.00   |

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| Compound                      | R.T.     | QIon  | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|----------|-------|----------|---------|----------|----------|
| -----                         |          |       |          |         |          |          |
| Internal Standards            |          |       |          |         |          |          |
| 1) 1,4-Difluorobenzene        | 5.542    | 114   | 292290   | 50.000  | ug/L     | 0.00     |
| 28) Chlorobenzene-d5          | 8.792    | 117   | 281012   | 50.000  | ug/L     | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.194   | 152   | 159157   | 50.000  | ug/L     | 0.00     |
| System Monitoring Compounds   |          |       |          |         |          |          |
| 4) Vinyl Chloride-d3          | 1.282    | 65    | 99523    | 46.447  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 60 | - 135 | Recovery | =       | 92.900%  |          |
| 7) Chloroethane-d5            | 1.539    | 69    | 78240    | 43.574  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 130 | Recovery | =       | 87.140%  |          |
| 11) 1,1-Dichloroethene-d2     | 2.063    | 65    | 45622    | 44.897  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 60 | - 125 | Recovery | =       | 89.800%  |          |
| 21) 2-Butanone-d5             | 3.802    | 46    | 134617   | 114.382 | ug/L     | 0.00     |
| Spiked Amount 100.000         | Range 40 | - 130 | Recovery | =       | 114.380% |          |
| 24) Chloroform-d              | 4.259    | 84    | 183780   | 47.328  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 125 | Recovery | =       | 94.660%  |          |
| 26) 1,2-Dichloroethane-d4     | 4.950    | 65    | 120929   | 48.439  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 125 | Recovery | =       | 96.880%  |          |
| 32) Benzene-d6                | 4.969    | 84    | 336056   | 50.581  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 125 | Recovery | =       | 101.160% |          |
| 36) 1,2-Dichloropropane-d6    | 5.995    | 67    | 103463   | 50.133  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 120 | Recovery | =       | 100.260% |          |
| 41) Toluene-d8                | 7.249    | 98    | 316049   | 50.665  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 80 | - 120 | Recovery | =       | 101.340% |          |
| 43) trans-1,3-Dichloroprop... | 7.558    | 79    | 53633    | 51.561  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 60 | - 125 | Recovery | =       | 103.120% |          |
| 47) 2-Hexanone-d5             | 8.034    | 63    | 87945    | 108.173 | ug/L     | 0.00     |
| Spiked Amount 100.000         | Range 45 | - 130 | Recovery | =       | 108.170% |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159   | 84    | 148784   | 49.683  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 65 | - 120 | Recovery | =       | 99.360%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.570   | 152   | 127922   | 50.567  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 80 | - 120 | Recovery | =       | 101.140% |          |
| Target Compounds              |          |       |          |         |          |          |
|                               |          |       |          |         |          | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.108    | 85    | 115449   | 45.940  | ug/L     | 99       |
| 3) Chloromethane              | 1.217    | 50    | 150507   | 45.656  | ug/L     | 99       |
| 5) Vinyl chloride             | 1.288    | 62    | 122239   | 45.994  | ug/L     | 98       |
| 6) Bromomethane               | 1.494    | 94    | 50350    | 47.777  | ug/L     | 100      |
| 8) Chloroethane               | 1.555    | 64    | 78683    | 43.164  | ug/L     | 99       |
| 9) Trichlorofluoromethane     | 1.716    | 101   | 192818   | 44.764  | ug/L     | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.072    | 101   | 103938   | 45.914  | ug/L     | 97       |
| 12) 1,1-Dichloroethene        | 2.076    | 96    | 92613    | 45.251  | ug/L     | 96       |
| 13) Acetone                   | 2.134    | 43    | 153204   | 84.125  | ug/L     | 100      |
| 14) Carbon disulfide          | 2.246    | 76    | 273866   | 47.375  | ug/L     | 98       |
| 15) Methyl Acetate            | 2.381    | 43    | 128727   | 52.967  | ug/L     | 99       |
| 16) Methylene chloride        | 2.455    | 84    | 111331   | 47.535  | ug/L     | 98       |
| 17) trans-1,2-Dichloroethene  | 2.699    | 96    | 98995    | 47.913  | ug/L     | 98       |
| 18) Methyl tert-butyl Ether   | 2.712    | 73    | 354015   | 53.493  | ug/L     | 99       |
| 19) 1,1-Dichloroethane        | 3.117    | 63    | 200498   | 47.596  | ug/L     | 98       |
| 20) cis-1,2-Dichloroethene    | 3.825    | 96    | 113427   | 50.467  | ug/L     | 97       |
| 22) 2-Butanone                | 3.883    | 43    | 184660   | 98.120  | ug/L     | 100      |
| 23) Bromochloromethane        | 4.156    | 128   | 60875    | 48.495  | ug/L     | 95       |

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| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 25) Chloroform                | 4.285  | 83   | 209916   | 48.145  | ug/L  | 100      |
| 27) 1,2-Dichloroethane        | 5.050  | 62   | 181795   | 49.256  | ug/L  | 99       |
| 29) Cyclohexane               | 4.593  | 56   | 170340   | 50.512  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.523  | 97   | 184543   | 46.736  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.744  | 117  | 160670   | 45.511  | ug/L  | 97       |
| 33) Benzene                   | 5.018  | 78   | 426640   | 49.996  | ug/L  | 100      |
| 34) Trichloroethene           | 5.841  | 95   | 108958   | 49.088  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.059  | 83   | 175373   | 50.424  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.101  | 63   | 111305   | 48.460  | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.439  | 83   | 158622   | 49.163  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 6.960  | 75   | 182377   | 52.905  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 7.166  | 43   | 350753   | 109.323 | ug/L  | 100      |
| 42) Toluene                   | 7.323  | 91   | 456316   | 49.924  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 7.587  | 75   | 178811   | 52.797  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 7.776  | 97   | 113845   | 49.431  | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.911  | 164  | 93325    | 48.035  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.082  | 43   | 278567   | 105.226 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.185  | 129  | 121851   | 47.965  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 120561   | 50.521  | ug/L  | 99       |
| 51) Chlorobenzene             | 8.821  | 112  | 295375   | 48.795  | ug/L  | 97       |
| 52) Ethylbenzene              | 8.953  | 91   | 504938   | 49.901  | ug/L  | 98       |
| 53) m,p-Xylene                | 9.079  | 106  | 193360   | 50.590  | ug/L  | 99       |
| 54) o-Xylene                  | 9.487  | 106  | 183680   | 49.124  | ug/L  | 98       |
| 55) Styrene                   | 9.503  | 104  | 332433   | 50.614  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.185 | 83   | 186986   | 49.450  | ug/L  | 99       |
| 59) Bromoform                 | 9.673  | 173  | 99662    | 50.015  | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.876  | 105  | 507810   | 51.160  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.217 | 75   | 145237   | 50.950  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 419133   | 51.286  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.860 | 105  | 425265   | 52.117  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.124 | 146  | 255365   | 51.387  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.217 | 146  | 262820m  | 50.154  | ug/L  |          |
| 67) 1,2-Dichlorobenzene       | 11.587 | 146  | 253204   | 50.506  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.374 | 75   | 43063    | 50.989  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 12.590 | 180  | 196627   | 52.378  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.207 | 180  | 178339   | 55.952  | ug/L  | 99       |
| 71) Naphthalene               | 13.448 | 128  | 559373   | 64.156  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.689 | 180  | 182524   | 57.750  | ug/L  | 99       |

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

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