

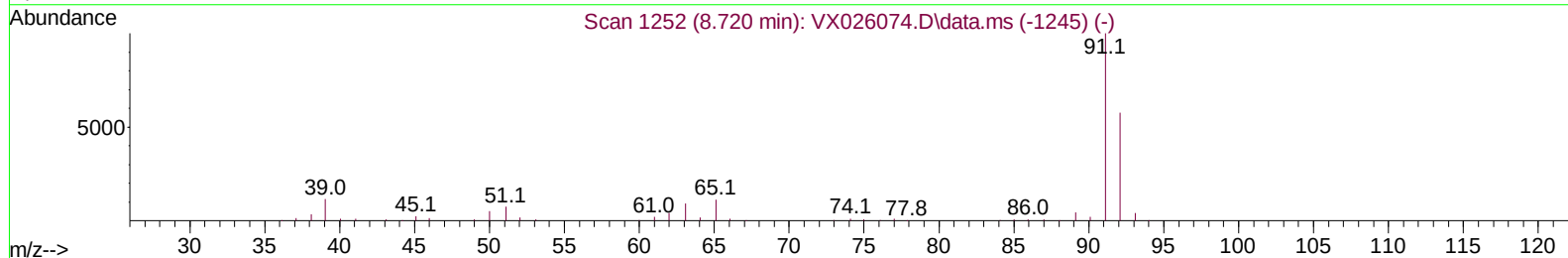
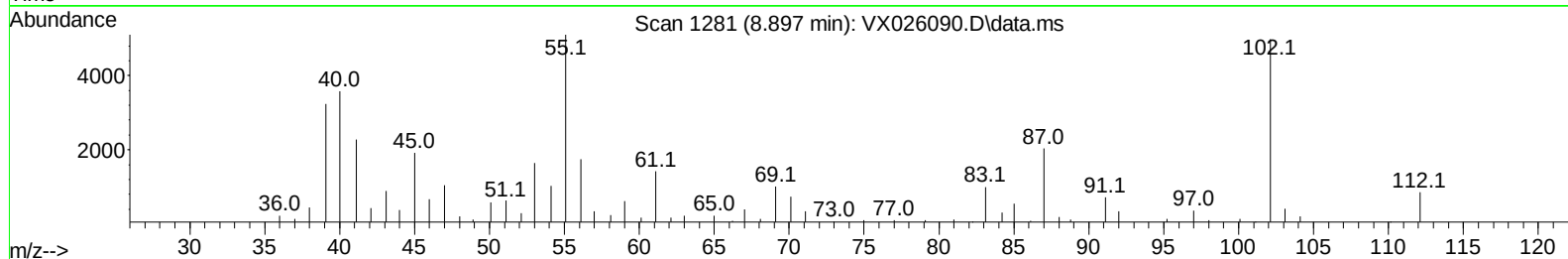
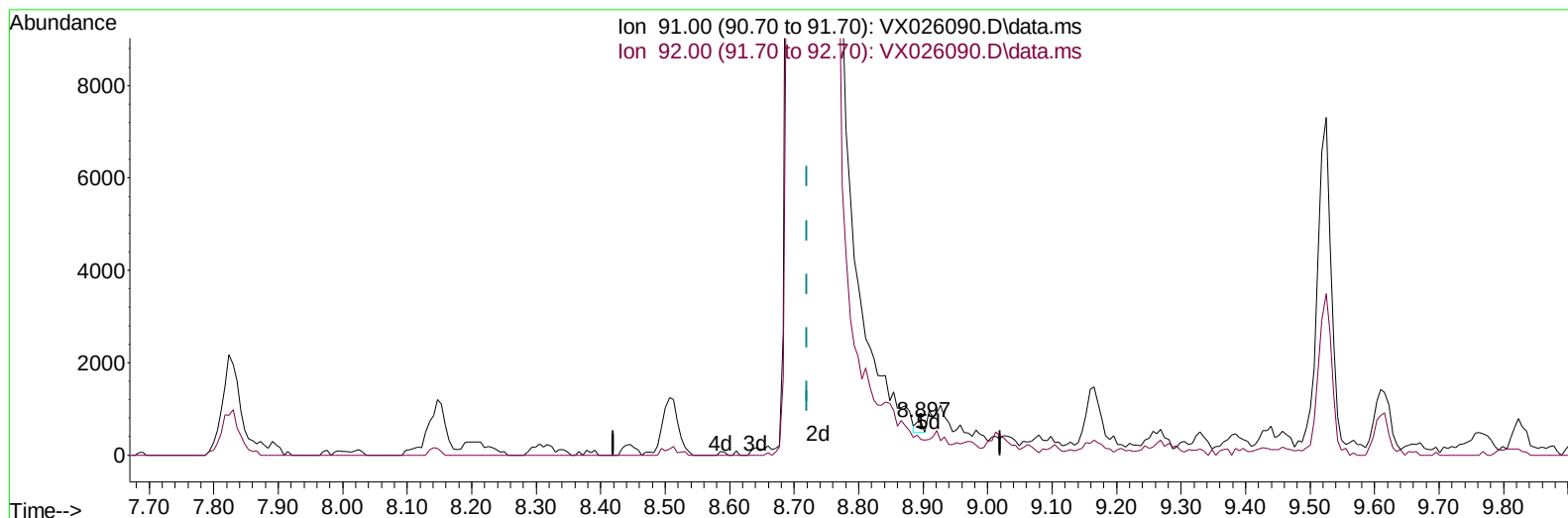
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122721\  
 Data File : VX026090.D  
 Acq On : 28 Dec 2021 02:54  
 Operator : JC/MD  
 Sample : M5232-03MSD 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GBCC1MSD

Manual IntegrationsAPPROVED

Quant Time: Dec 28 04:41:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXLM122321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 28 02:17:03 2021  
 Response via : Initial Calibration

Reviewed By :John Carlone 12/28/2021  
 Supervised By :Mahesh Dadoda 12/28/2021



TIC: VX026090.D\data.ms

(42) Toluene (T)

8.897min (+ 0.177) 0.03 ug/L

response 165

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 91.00 | 100.00 | 100.00 |
| 92.00 | 58.90  | 46.94  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

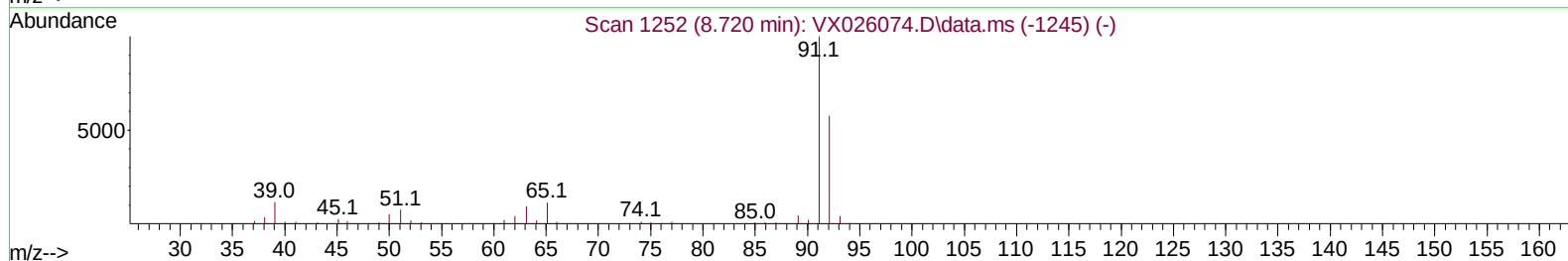
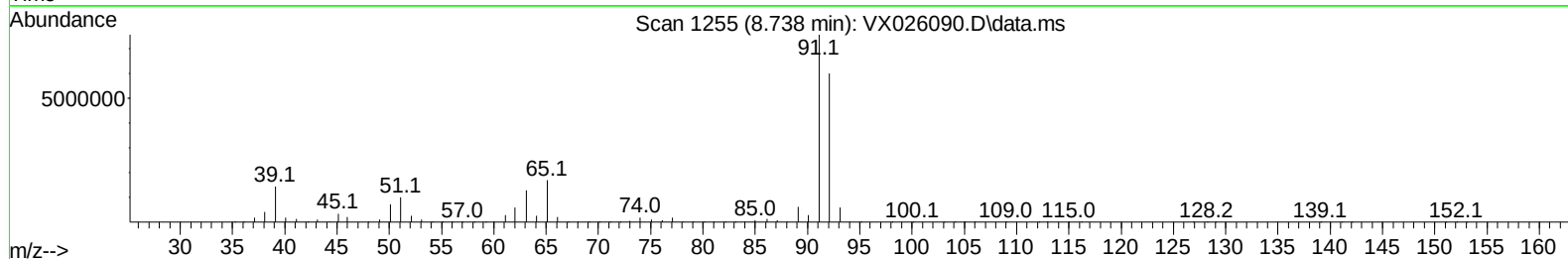
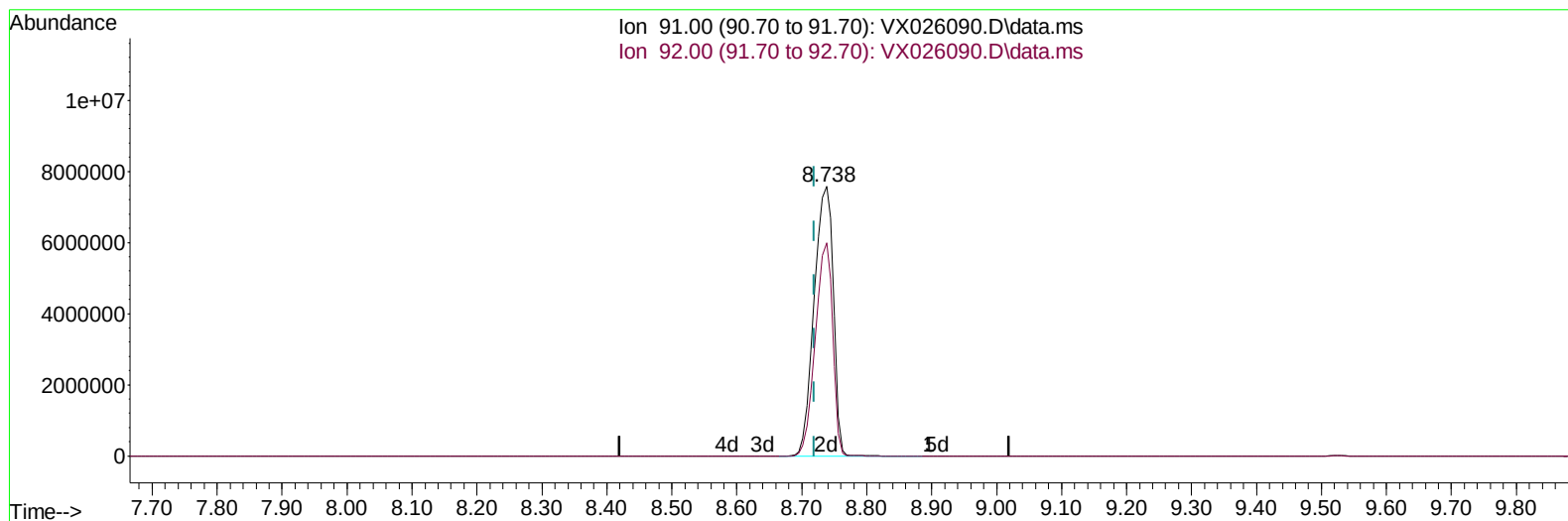
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122721\  
 Data File : VX026090.D  
 Acq On : 28 Dec 2021 02:54  
 Operator : JC/MD  
 Sample : M5232-03MSD 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GBCC1MSD

Manual IntegrationsAPPROVED

Quant Time: Dec 28 04:41:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXLM122321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 28 02:17:03 2021  
 Response via : Initial Calibration

Reviewed By :John Carlone 12/28/2021  
 Supervised By :Mahesh Dadoda 12/28/2021



TIC: VX026090.D\data.ms

**(42) Toluene (T)**

**8.738min (+ 0.018) 2555.65 ug/L m**

**response 15627513**

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 91.00 | 100.00 | 100.00 |
| 92.00 | 58.90  | 79.20# |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

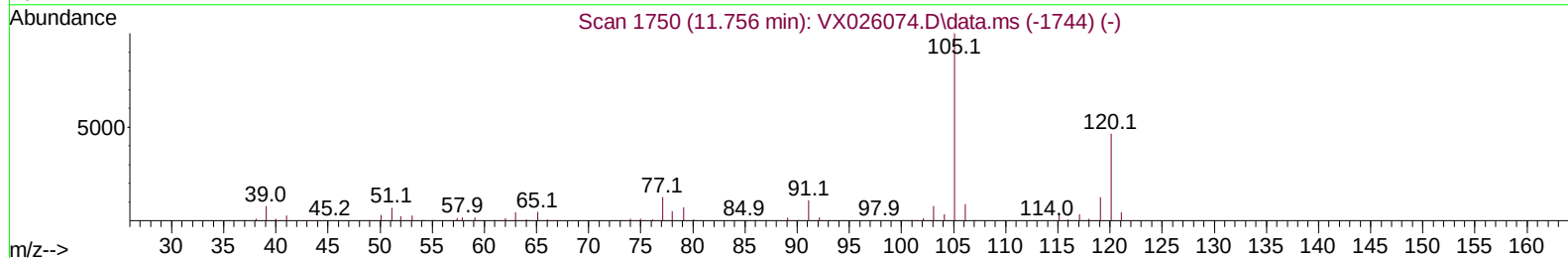
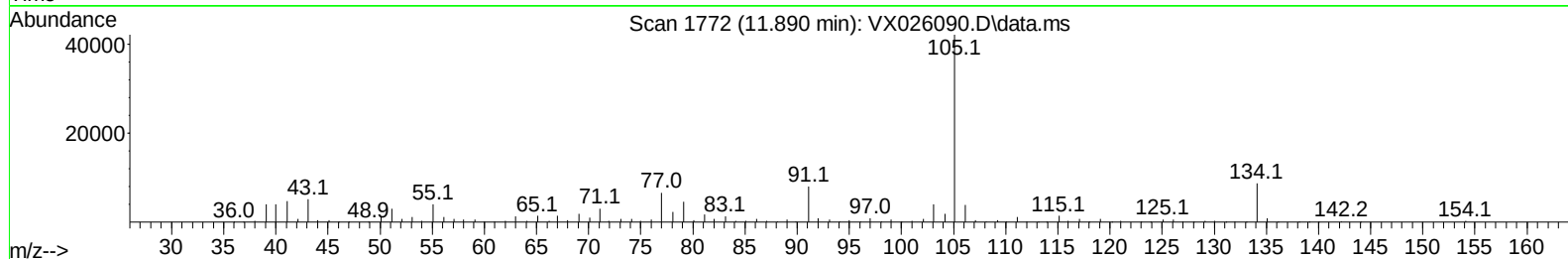
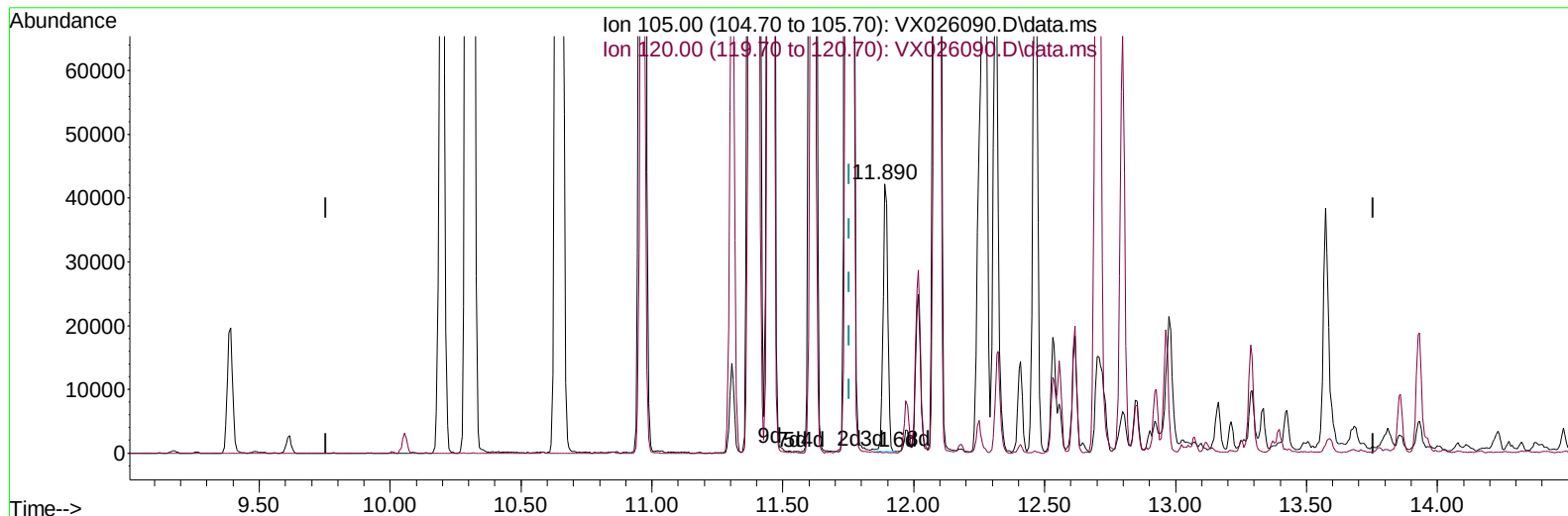
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122721\  
 Data File : VX026090.D  
 Acq On : 28 Dec 2021 02:54  
 Operator : JC/MD  
 Sample : M5232-03MSD 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GBCC1MSD

Manual IntegrationsAPPROVED

Quant Time: Dec 28 04:41:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXLM122321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 28 02:17:03 2021  
 Response via : Initial Calibration

Reviewed By :John Carlone 12/28/2021  
 Supervised By :Mahesh Dadoda 12/28/2021



TIC: VX026090.D\data.ms

(63) 1,2,4-Trimethylbenzene

11.890min (+ 0.134) 9.13 ug/L

response 52610

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 105.00 | 100.00 | 100.00 |
| 120.00 | 0.10   | 0.11   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

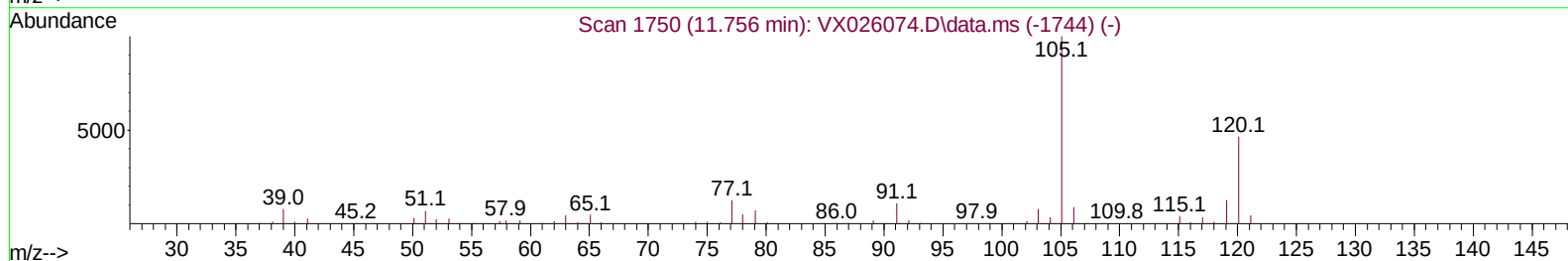
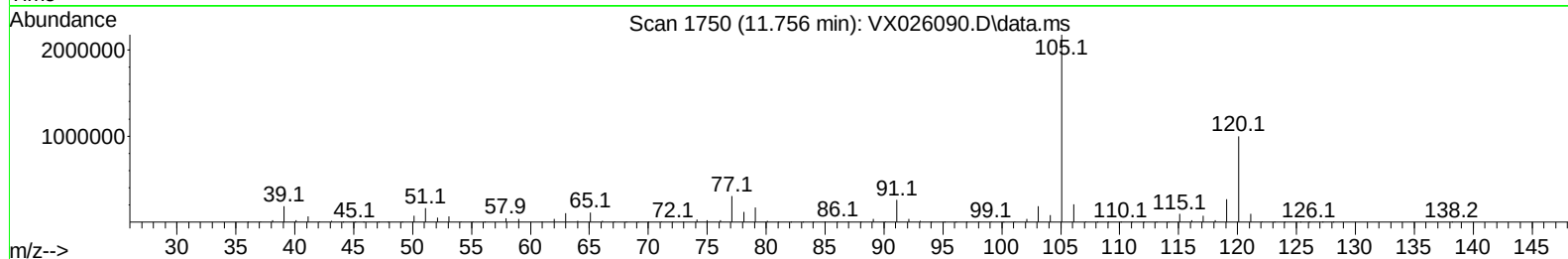
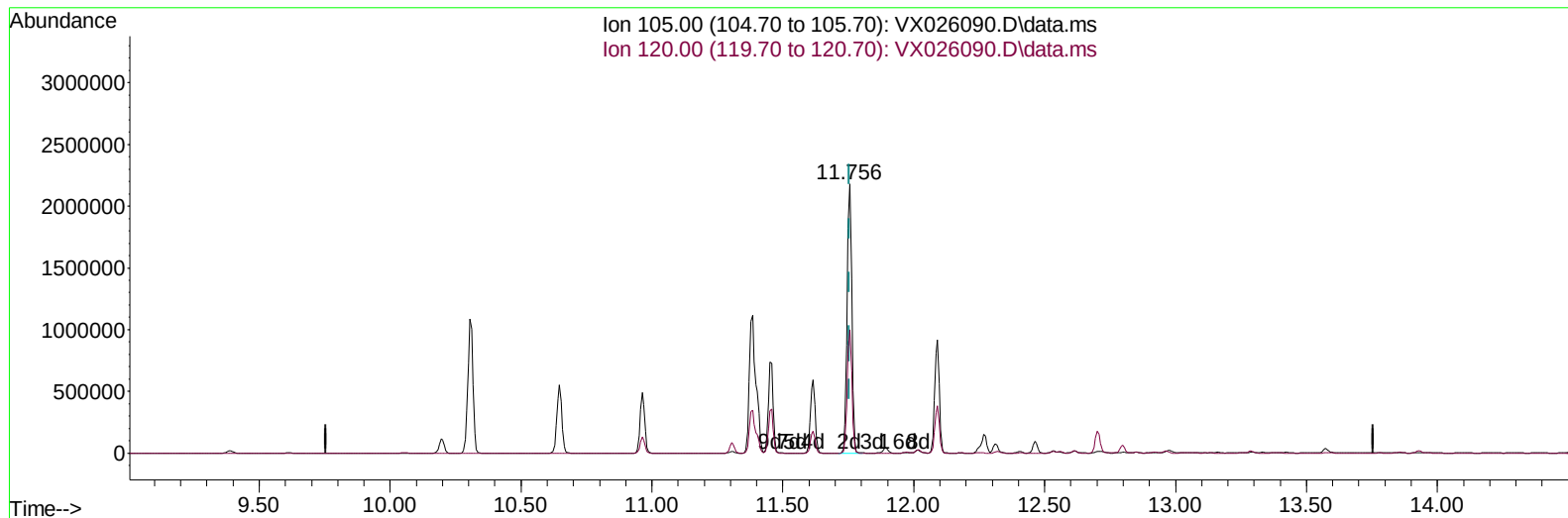
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122721\  
 Data File : VX026090.D  
 Acq On : 28 Dec 2021 02:54  
 Operator : JC/MD  
 Sample : M5232-03MSD 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GBCC1MSD

Manual IntegrationsAPPROVED

Quant Time: Dec 28 04:41:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXLM122321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 28 02:17:03 2021  
 Response via : Initial Calibration

Reviewed By :John Carlone 12/28/2021  
 Supervised By :Mahesh Dadoda 12/28/2021



TIC: VX026090.D\data.ms

(63) 1,2,4-Trimethylbenzene

11.756min (+ 0.000) 455.75 ug/L m

response 2626511

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 105.00 | 100.00 | 100.00 |
| 120.00 | 0.10   | 0.00#  |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122721\  
 Data File : VX026090.D  
 Acq On : 28 Dec 2021 02:54  
 Operator : JC/MD  
 Sample : M5232-03MSD 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GBCC1MSD

Manual IntegrationsAPPROVED

Quant Time: Dec 28 04:41:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXLM122321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 28 02:17:03 2021  
 Response via : Initial Calibration

Reviewed By :John Carlone 12/28/2021  
 Supervised By :Mahesh Dadoda 12/28/2021

| Compound                      | R.T.     | QIon  | Response | Conc        | Units  | Dev(Min) |
|-------------------------------|----------|-------|----------|-------------|--------|----------|
| -----                         |          |       |          |             |        |          |
| Internal Standards            |          |       |          |             |        |          |
| 1) 1,4-Difluorobenzene        | 6.769    | 114   | 192244   | 50.000      | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.055   | 117   | 180826   | 50.000      | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024   | 152   | 100003   | 50.000      | ug/L   | 0.00     |
| System Monitoring Compounds   |          |       |          |             |        |          |
| 4) Vinyl Chloride-d3          | 1.374    | 65    | 80609    | 59.129      | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 | - 135 | Recovery | = 118.260%  |        |          |
| 7) Chloroethane-d5            | 1.672    | 69    | 64221    | 58.946      | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 130 | Recovery | = 117.900%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.319    | 63    | 218297   | 80.804      | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 | - 125 | Recovery | = 161.600%# |        |          |
| 21) 2-Butanone-d5             | 4.465    | 46    | 176530   | 149.356     | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 | - 130 | Recovery | = 149.360%# |        |          |
| 24) Chloroform-d              | 5.062    | 84    | 168671   | 61.826      | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 125 | Recovery | = 123.660%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.964    | 65    | 111485   | 60.356      | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 125 | Recovery | = 120.720%  |        |          |
| 32) Benzene-d6                | 5.983    | 84    | 307256   | 59.033      | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 125 | Recovery | = 118.060%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 7.312    | 67    | 102701   | 63.478      | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 120 | Recovery | = 126.960%# |        |          |
| 41) Toluene-d8                | 8.653    | 98    | 274255   | 56.435      | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 | - 120 | Recovery | = 112.880%  |        |          |
| 43) trans-1,3-Dichloroprop... | 8.952    | 79    | 53506    | 76.014      | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 | - 125 | Recovery | = 152.020%# |        |          |
| 47) 2-Hexanone-d5             | 9.384    | 63    | 138982   | 166.448     | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 | - 130 | Recovery | = 166.450%# |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195   | 84    | 154430   | 64.734      | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 | - 120 | Recovery | = 129.460%# |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.323   | 152   | 110390   | 58.416      | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 | - 120 | Recovery | = 116.840%  |        |          |
| Target Compounds              |          |       |          |             |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.172    | 85    | 99410    | 51.738      | ug/L   | 99       |
| 3) Chloromethane              | 1.294    | 50    | 95645    | 53.628      | ug/L   | 95       |
| 5) Vinyl chloride             | 1.380    | 62    | 149552   | 84.485      | ug/L   | 99       |
| 6) Bromomethane               | 1.618    | 94    | 51369    | 50.820      | ug/L   | 97       |
| 8) Chloroethane               | 1.691    | 64    | 63333    | 59.255      | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.892    | 101   | 165661   | 61.845      | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.337    | 101   | 122211   | 88.478      | ug/L   | 93       |
| 12) 1,1-Dichloroethene        | 2.325    | 96    | 184704   | 142.972     | ug/L   | 83       |
| 13) Acetone                   | 2.386    | 43    | 191250   | 295.975     | ug/L   | 94       |
| 14) Carbon disulfide          | 2.520    | 76    | 199862   | 56.014      | ug/L   | 99       |
| 15) Methyl Acetate            | 2.709    | 43    | 124754   | 70.053      | ug/L # | 91       |
| 16) Methylene chloride        | 2.794    | 84    | 104472   | 69.554      | ug/L   | 94       |
| 17) trans-1,2-Dichloroethene  | 3.099    | 96    | 76757    | 55.796      | ug/L   | 91       |
| 18) Methyl tert-butyl Ether   | 3.117    | 73    | 278853   | 62.397      | ug/L # | 90       |
| 19) 1,1-Dichloroethane        | 3.617    | 63    | 2157065  | 831.399     | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.495    | 96    | 2710027  | 1765.124    | ug/L   | 84       |
| 22) 2-Butanone                | 4.562    | 43    | 199805   | 166.072     | ug/L   | 95       |
| 23) Bromochloromethane        | 4.904    | 128   | 44175    | 57.675      | ug/L # | 83       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122721\  
 Data File : VX026090.D  
 Acq On : 28 Dec 2021 02:54  
 Operator : JC/MD  
 Sample : M5232-03MSD 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GBCC1MSD

## Manual IntegrationsAPPROVED

Reviewed By :John Carlone 12/28/2021  
 Supervised By :Mahesh Dadoda 12/28/2021

Quant Time: Dec 28 04:41:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXLM122321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 28 02:17:03 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response  | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|-----------|----------|--------|----------|
| 25) Chloroform                | 5.099  | 83   | 160217    | 59.188   | ug/L   | 98       |
| 27) 1,2-Dichloroethane        | 6.092  | 62   | 155340    | 69.571   | ug/L   | 99       |
| 29) Cyclohexane               | 5.483  | 56   | 173673    | 73.124   | ug/L   | 92       |
| 30) 1,1,1-Trichloroethane     | 5.397  | 97   | 8016222   | 3640.701 | ug/L   | 95       |
| 31) Carbon tetrachloride      | 5.684  | 117  | 112124    | 58.757   | ug/L   | 100      |
| 33) Benzene                   | 6.044  | 78   | 1222162   | 212.846  | ug/L   | 100      |
| 34) Trichloroethene           | 7.129  | 95   | 98425     | 67.012   | ug/L   | 92       |
| 35) Methylcyclohexane         | 7.385  | 83   | 176885    | 76.088   | ug/L   | 93       |
| 37) 1,2-Dichloropropane       | 7.434  | 63   | 92447     | 63.430   | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.824  | 83   | 118806    | 62.200   | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 8.372  | 75   | 133376    | 63.684   | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 8.580  | 43   | 502570    | 205.105  | ug/L # | 89       |
| 42) Toluene                   | 8.738  | 91   | 15627513m | 2555.647 | ug/L   |          |
| 44) trans-1,3-Dichloropropene | 8.982  | 75   | 137131    | 68.997   | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 9.153  | 97   | 87765     | 62.343   | ug/L   | 97       |
| 46) Tetrachloroethene         | 9.275  | 164  | 122982    | 109.755  | ug/L   | 97       |
| 48) 2-Hexanone                | 9.433  | 43   | 292638    | 157.021  | ug/L   | 97       |
| 49) Dibromochloromethane      | 9.525  | 129  | 96674     | 66.493   | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 93441     | 62.154   | ug/L   | 99       |
| 51) Chlorobenzene             | 10.079 | 112  | 238417    | 61.941   | ug/L   | 94       |
| 52) Ethylbenzene              | 10.195 | 91   | 2981376   | 449.544  | ug/L   | 97       |
| 53) m,p-Xylene                | 10.305 | 106  | 3177032   | 1254.933 | ug/L   | 97       |
| 54) o-Xylene                  | 10.646 | 106  | 1676296   | 668.472  | ug/L   | 94       |
| 55) Styrene                   | 10.659 | 104  | 335289    | 79.202   | ug/L # | 56       |
| 57) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 143687    | 60.738   | ug/L   | 98       |
| 59) Bromoform                 | 10.799 | 173  | 69084     | 66.890   | ug/L   | 98       |
| 60) Isopropylbenzene          | 10.963 | 105  | 601270    | 87.513   | ug/L   | 96       |
| 61) 1,2,3-Trichloropropane    | 11.244 | 75   | 120407    | 60.259   | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 939963    | 163.395  | ug/L   | 95       |
| 63) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 2626511m  | 455.751  | ug/L   |          |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 175495    | 57.247   | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 12.042 | 146  | 187331    | 60.694   | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 284653    | 93.912   | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 46906     | 89.101   | ug/L   | 81       |
| 69) 1,3,5-Trichlorobenzene    | 13.115 | 180  | 116011    | 56.371   | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.591 | 180  | 112799    | 61.547   | ug/L   | 96       |
| 71) Naphthalene               | 13.780 | 128  | 1734852   | 250.398  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 115189    | 60.860   | ug/L   | 97       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122721\  
 Data File : VX026090.D  
 Acq On : 28 Dec 2021 02:54  
 Operator : JC/MD  
 Sample : M5232-03MSD 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GBCC1MSD

## Manual IntegrationsAPPROVED

Reviewed By :John Carlone 12/28/2021  
 Supervised By :Mahesh Dadoda 12/28/2021

Quant Time: Dec 28 04:41:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXLM122321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 28 02:17:03 2021  
 Response via : Initial Calibration

