

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121921\  
 Data File : VU046489.D  
 Acq On : 19 Dec 2021 13:09  
 Operator : SY/MD  
 Sample : M5062-18ME  
 Misc : 6.29g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 20 00:26:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 20 00:25:10 2021  
 Response via : Initial Calibration

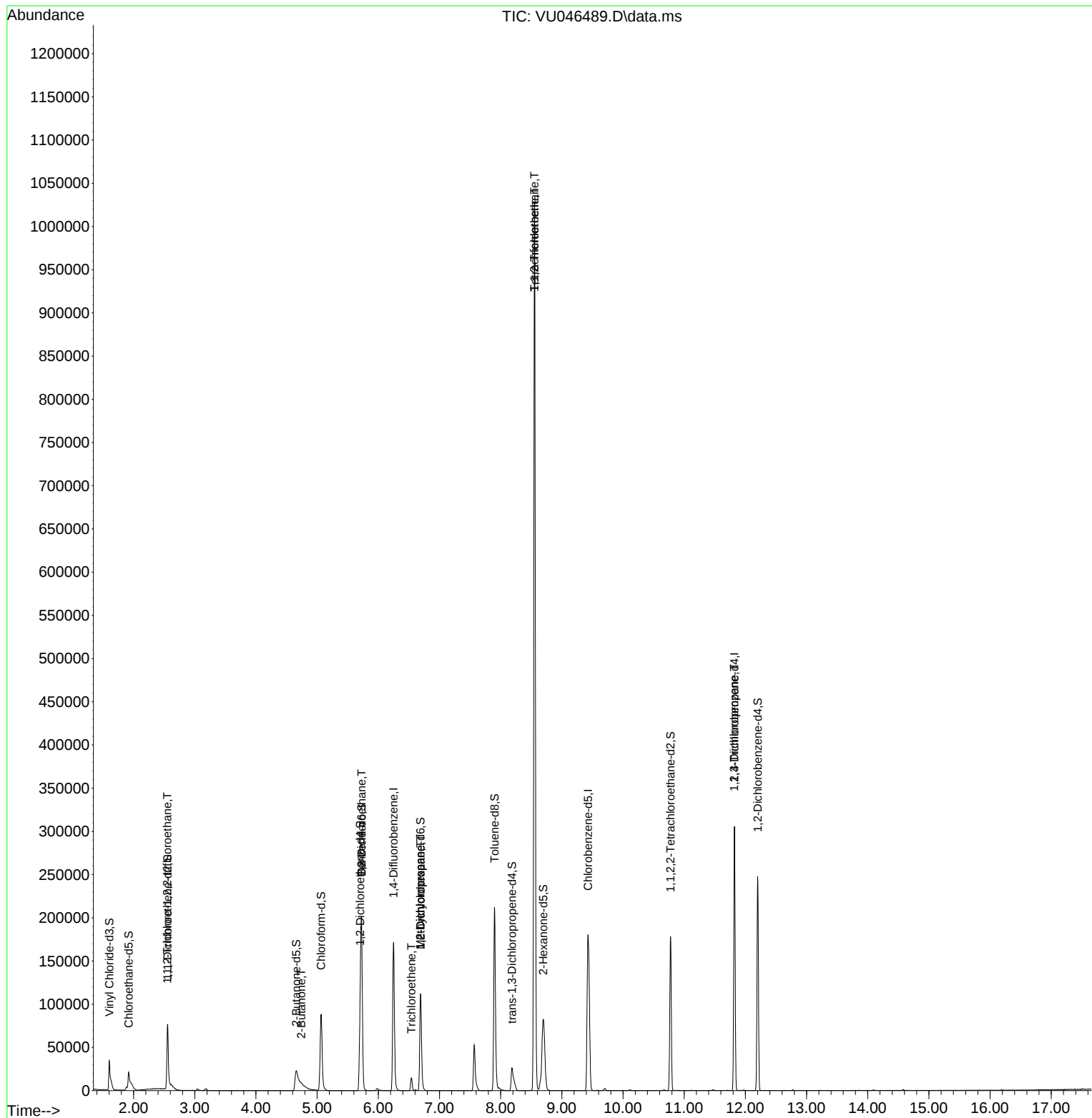
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 148859   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.427   | 117   | 159709   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.822  | 152   | 78957    | 50.000   | ug/L   | 0.00     |
|                               |         |       |          |          |        |          |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.604   | 65    | 42831    | 34.929   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 69.860%  |
| 7) Chloroethane-d5            | 1.919   | 69    | 23650    | 25.120   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 50.240%# |
| 11) 1,1-Dichloroethene-d2     | 2.555   | 63    | 51808    | 23.535   | ug/L   | -0.02    |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 47.080%# |
| 21) 2-Butanone-d5             | 4.658   | 46    | 73187    | 75.080   | ug/L   | 0.02     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 75.080%  |
| 24) Chloroform-d              | 5.063   | 84    | 90803    | 44.343   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 88.680%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 62448    | 45.441   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 90.880%  |
| 32) Benzene-d6                | 5.726   | 84    | 174333   | 38.084   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 76.160%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 55547    | 39.155   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 78.300%  |
| 41) Toluene-d8                | 7.899   | 98    | 157054   | 37.682   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 75.360%# |
| 43) trans-1,3-Dichloroprop... | 8.185   | 79    | 28348    | 41.394   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 82.780%  |
| 47) 2-Hexanone-d5             | 8.697   | 63    | 64456    | 95.826   | ug/L   | 0.06     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 95.830%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.777  | 84    | 90742    | 42.177   | ug/L   | 0.02     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 84.360%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.201  | 152   | 64430    | 42.372   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 84.740%  |
|                               |         |       |          |          |        |          |
| Target Compounds              |         |       |          |          |        | Qvalue   |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.552   | 101   | 410      | 0.379    | ug/L # | 21       |
| 22) 2-Butanone                | 4.742   | 43    | 4079     | 3.076    | ug/L   | 74       |
| 27) 1,2-Dichloroethane        | 5.726   | 62    | 985      | 0.603    | ug/L # | 73       |
| 34) Trichloroethene           | 6.542   | 95    | 5159     | 4.051    | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.690   | 83    | 13702    | 6.939    | ug/L # | 20       |
| 37) 1,2-Dichloropropane       | 6.690   | 63    | 6280     | 4.960    | ug/L # | 86       |
| 45) 1,1,2-Trichloroethane     | 8.552   | 97    | 2299     | 1.810    | ug/L # | 13       |
| 46) Tetrachloroethene         | 8.552   | 164   | 228522   | 244.197  | ug/L   | 99       |
| 60) 1,2,3-Trichloropropane    | 11.819  | 75    | 9491     | 5.484    | ug/L # | 65       |
| -----                         |         |       |          |          |        |          |

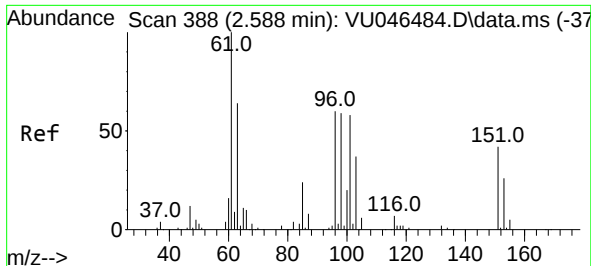
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Mon Dec 20 00:25:10 2021  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.379 ug/L

RT: 2.552 min Scan# 31

Delta R.T. -0.035 min

Lab File: VU046489.D

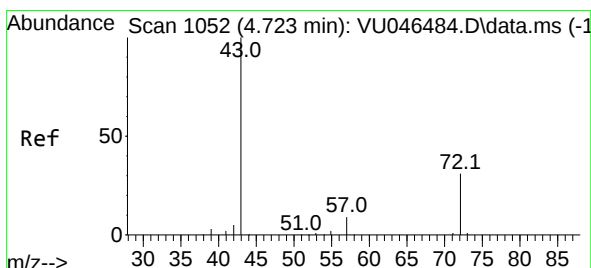
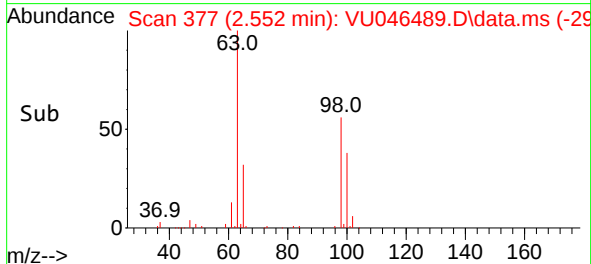
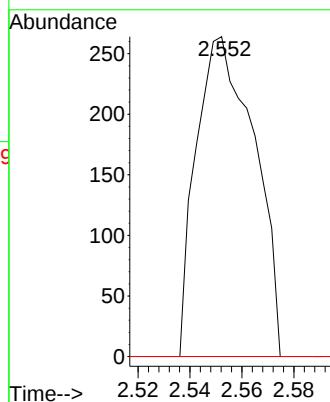
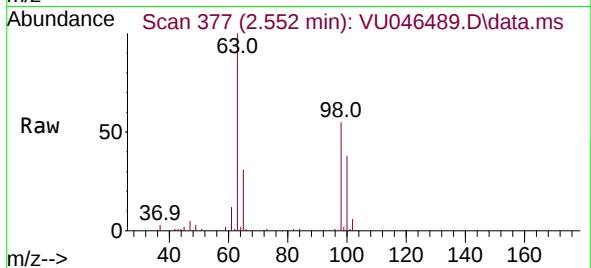
Acq: 19 Dec 2021 13:09

Instrument :

MSVOA\_U

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 410   |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 0.0   | 35.1  | 52.7# |
| 151      | 0.0   | 56.7  | 85.1# |



#22

2-Butanone

Concen: 3.076 ug/L

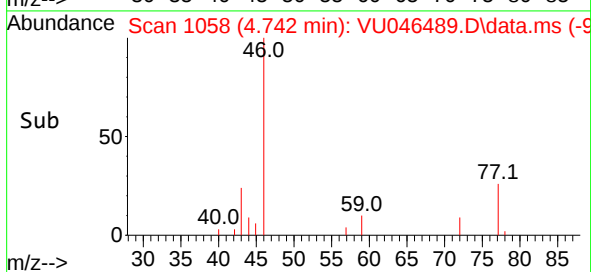
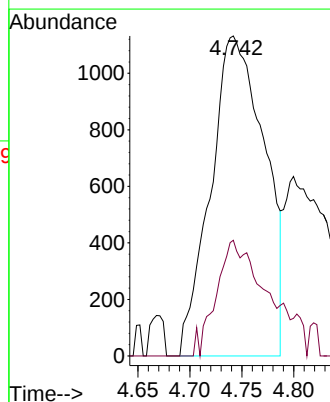
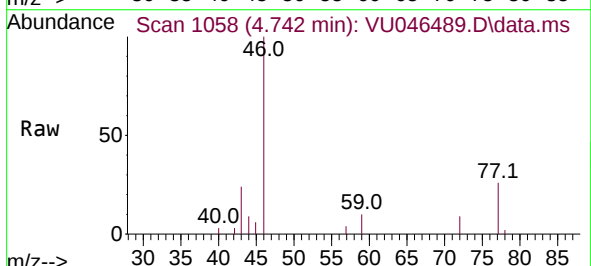
RT: 4.742 min Scan# 1058

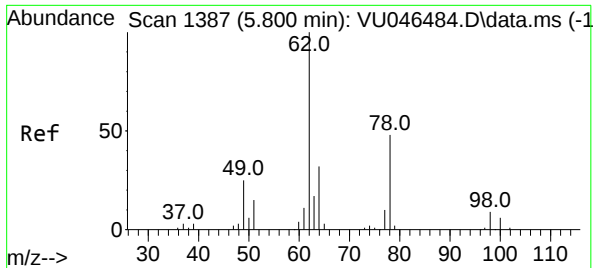
Delta R.T. 0.019 min

Lab File: VU046489.D

Acq: 19 Dec 2021 13:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4079  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 15.4  | 14.5  | 43.6  |





#27

1,2-Dichloroethane

Concen: 0.603 ug/L

RT: 5.726 min Scan# 11

Delta R.T. -0.074 min

Lab File: VU046489.D

Acq: 19 Dec 2021 13:09

Instrument :

MSVOA\_U

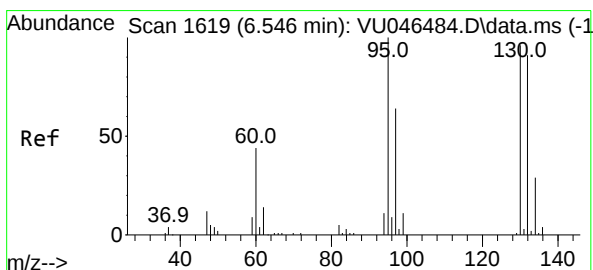
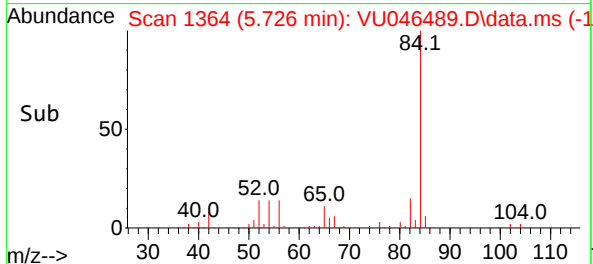
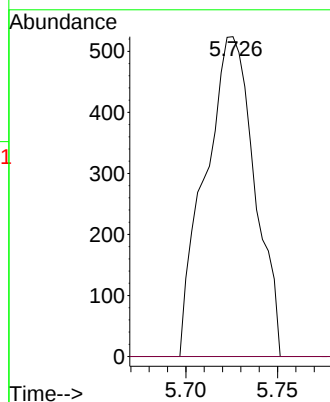
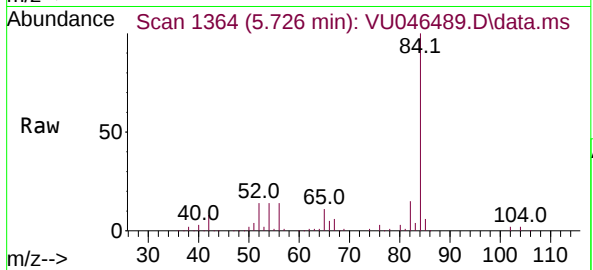
ClientSampleId :

Tgt Ion: 62 Resp: 985

Ion Ratio Lower Upper

62 100

98 0.0 7.9 11.9#



#34

Trichloroethene

Concen: 4.051 ug/L

RT: 6.542 min Scan# 1618

Delta R.T. -0.003 min

Lab File: VU046489.D

Acq: 19 Dec 2021 13:09

Tgt Ion: 95 Resp: 5159

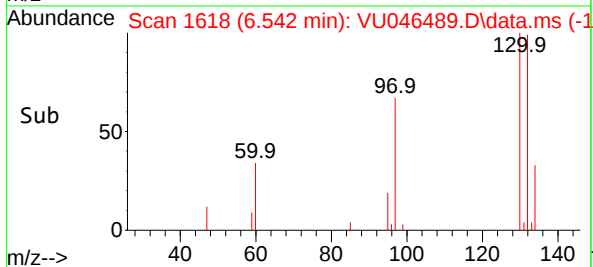
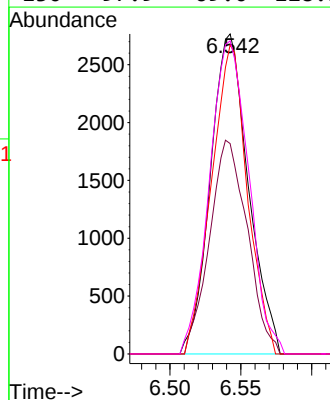
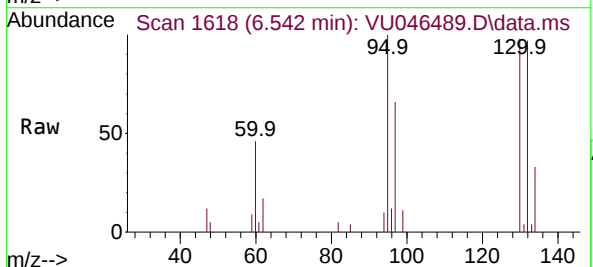
Ion Ratio Lower Upper

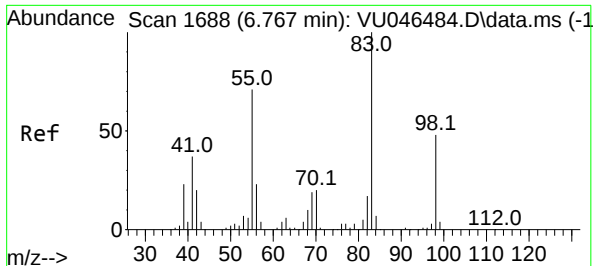
95 100

97 65.8 44.1 81.9

132 96.5 66.8 124.0

130 97.9 69.0 128.1

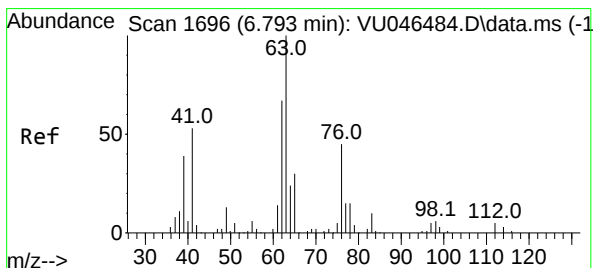
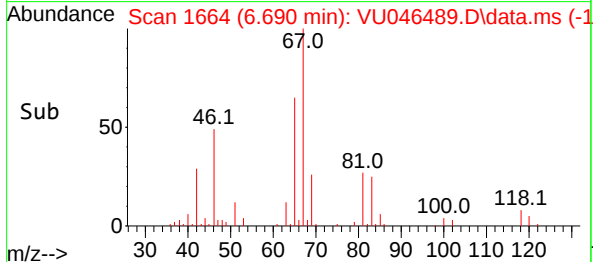
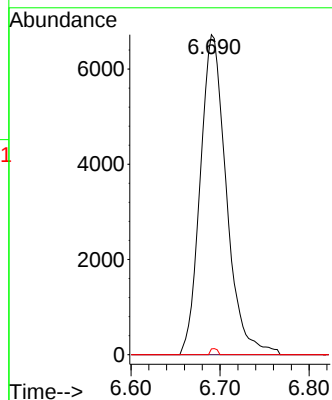
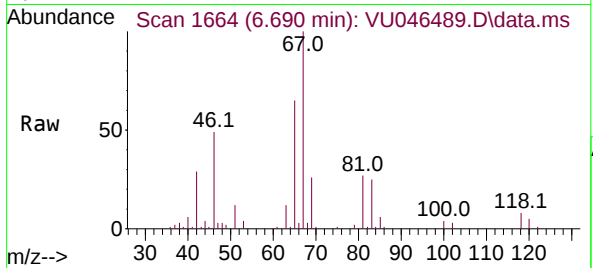




#35  
Methylcyclohexane  
Concen: 6.939 ug/L  
RT: 6.690 min Scan# 1664  
Delta R.T. -0.077 min  
Lab File: VU046489.D  
Acq: 19 Dec 2021 13:09

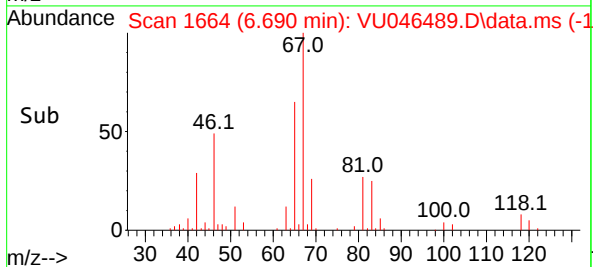
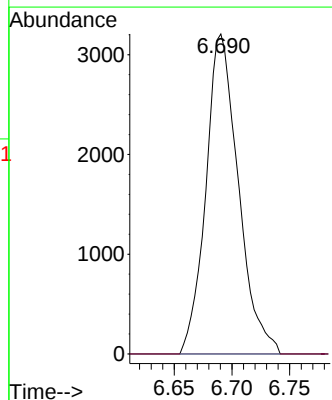
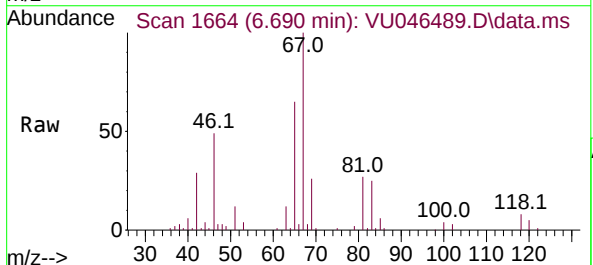
Instrument :  
MSVOA\_U  
ClientSampleId :

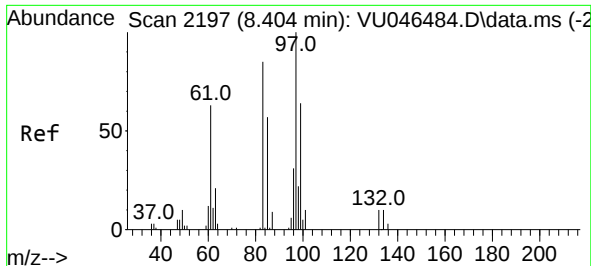
Tgt Ion: 83 Resp: 13702  
Ion Ratio Lower Upper  
83 100  
55 0.0 57.8 86.6#  
98 0.5 38.4 57.6#



#37  
1,2-Dichloropropane  
Concen: 4.960 ug/L  
RT: 6.690 min Scan# 1664  
Delta R.T. -0.103 min  
Lab File: VU046489.D  
Acq: 19 Dec 2021 13:09

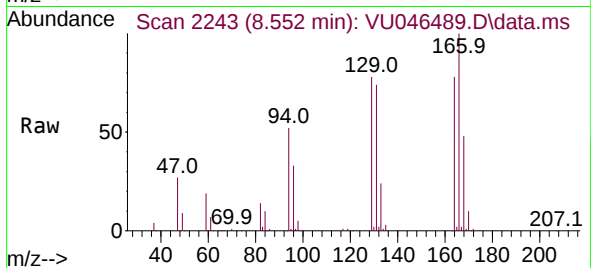
Tgt Ion: 63 Resp: 6280  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.8 5.6#



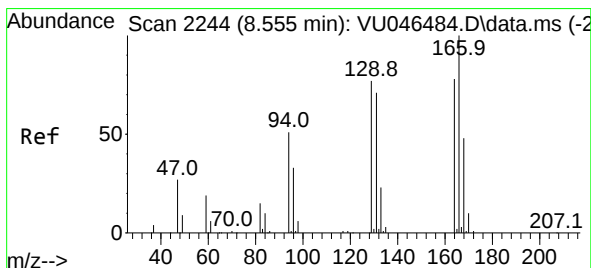
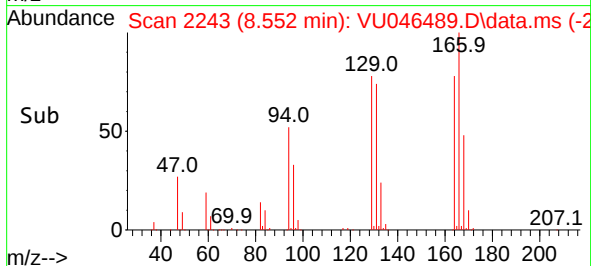
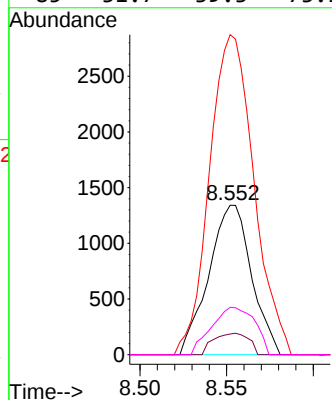


#45  
1,1,2-Trichloroethane  
Concen: 1.810 ug/L  
RT: 8.552 min Scan# 2197  
Delta R.T. 0.148 min  
Lab File: VU046489.D  
Acq: 19 Dec 2021 13:09

Instrument :  
MSVOA\_U  
ClientSampleId :

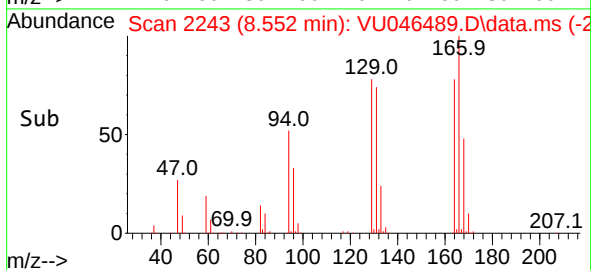
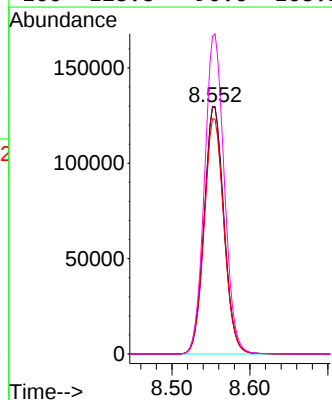
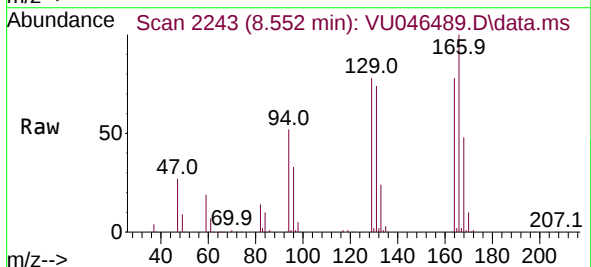


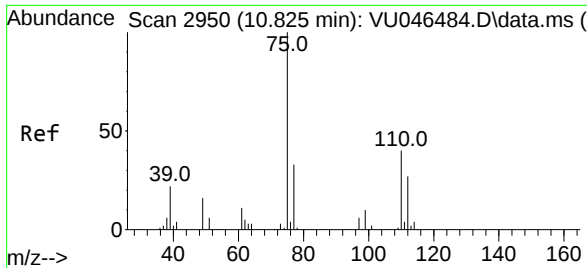
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 2299   |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 13.9  | 44.7  | 82.9#  |
| 83       | 214.1 | 60.2  | 111.8# |
| 85       | 31.7  | 39.3  | 73.1#  |



#46  
Tetrachloroethene  
Concen: 244.197 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. -0.003 min  
Lab File: VU046489.D  
Acq: 19 Dec 2021 13:09

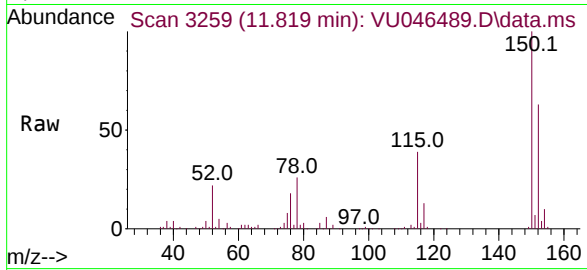
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 228522 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 100.4 | 71.1  | 132.1  |
| 131      | 95.3  | 67.8  | 126.0  |
| 166      | 128.8 | 90.6  | 168.2  |





#60  
1,2,3-Trichloropropane  
Concen: 5.484 ug/L  
RT: 11.819 min Scan# 31  
Delta R.T. 0.994 min  
Lab File: VU046489.D  
Acq: 19 Dec 2021 13:09

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion: 75 Resp: 9491  
Ion Ratio Lower Upper  
75 100  
77 32.3 26.4 39.6  
110 2.2 32.4 48.6#

