

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121021\  
 Data File : VU046271.D  
 Acq On : 10 Dec 2021 17:30  
 Operator : SY/MD  
 Sample : M4885-22ME  
 Misc : 3.59g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 10 22:25:21 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 03 05:08:36 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 256432   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.427   | 117   | 261202   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.819  | 152   | 138061   | 50.000   | ug/L   | 0.00     |
|                               |         |       |          |          |        |          |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 84427    | 39.968   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 79.940%  |
| 7) Chloroethane-d5            | 1.919   | 69    | 55873    | 34.450   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 68.900%# |
| 11) 1,1-Dichloroethene-d2     | 2.549   | 63    | 98660    | 26.018   | ug/L   | -0.03    |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 52.040%# |
| 21) 2-Butanone-d5             | 4.655   | 46    | 100855   | 60.061   | ug/L   | 0.01     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 60.060%  |
| 24) Chloroform-d              | 5.063   | 84    | 129861   | 36.814   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 73.620%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 101280   | 42.782   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 85.560%  |
| 32) Benzene-d6                | 5.726   | 84    | 328682   | 43.903   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 101572   | 43.777   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 87.560%  |
| 41) Toluene-d8                | 7.899   | 98    | 303060   | 44.460   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 88.920%  |
| 43) trans-1,3-Dichloroprop... | 8.185   | 79    | 54404    | 48.573   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 97.140%  |
| 47) 2-Hexanone-d5             | 8.681   | 63    | 95750    | 87.038   | ug/L   | 0.05     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 87.040%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.771  | 84    | 152064   | 43.216   | ug/L   | 0.01     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 86.440%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.201  | 152   | 124333   | 46.763   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 93.520%  |
|                               |         |       |          |          |        |          |
| Target Compounds              |         |       |          |          |        | Qvalue   |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.549   | 101   | 991      | 0.531    | ug/L # | 21       |
| 12) 1,1-Dichloroethene        | 2.546   | 96    | 777      | 0.438    | ug/L # | 1        |
| 25) Chloroform                | 5.089   | 83    | 27022    | 7.129    | ug/L   | 95       |
| 33) Benzene                   | 5.771   | 78    | 19158    | 2.423    | ug/L   | 100      |
| 34) Trichloroethene           | 6.539   | 95    | 33169    | 15.926   | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.694   | 83    | 25192    | 7.801    | ug/L # | 20       |
| 37) 1,2-Dichloropropane       | 6.690   | 63    | 11140    | 5.379    | ug/L # | 86       |
| 39) cis-1,3-Dichloropropene   | 7.568   | 75    | 3403     | 1.080    | ug/L # | 72       |
| 42) Toluene                   | 7.973   | 91    | 27134    | 3.199    | ug/L   | 97       |
| 46) Tetrachloroethene         | 8.552   | 164   | 9308     | 6.082    | ug/L   | 96       |
| 49) Dibromochloromethane      | 8.555   | 129   | 8772     | 4.021    | ug/L # | 10       |
| 53) m,p-Xylene                | 9.700   | 106   | 17459    | 4.904    | ug/L   | 90       |
| 54) o-xylene                  | 10.108  | 106   | 4156     | 1.203    | ug/L   | 91       |
| 55) Styrene                   | 10.131  | 104   | 8051     | 1.365    | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.095  | 105   | 28912    | 3.861    | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.475  | 105   | 30654    | 4.092    | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 13.031  | 75    | 1518     | 1.883    | ug/L # | 3        |
| 71) Naphthalene               | 14.089  | 128   | 1408041  | 146.660  | ug/L   | 99       |
| -----                         |         |       |          |          |        |          |

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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Dec 10 22:25:21 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 03 05:08:36 2021  
Response via : Initial Calibration

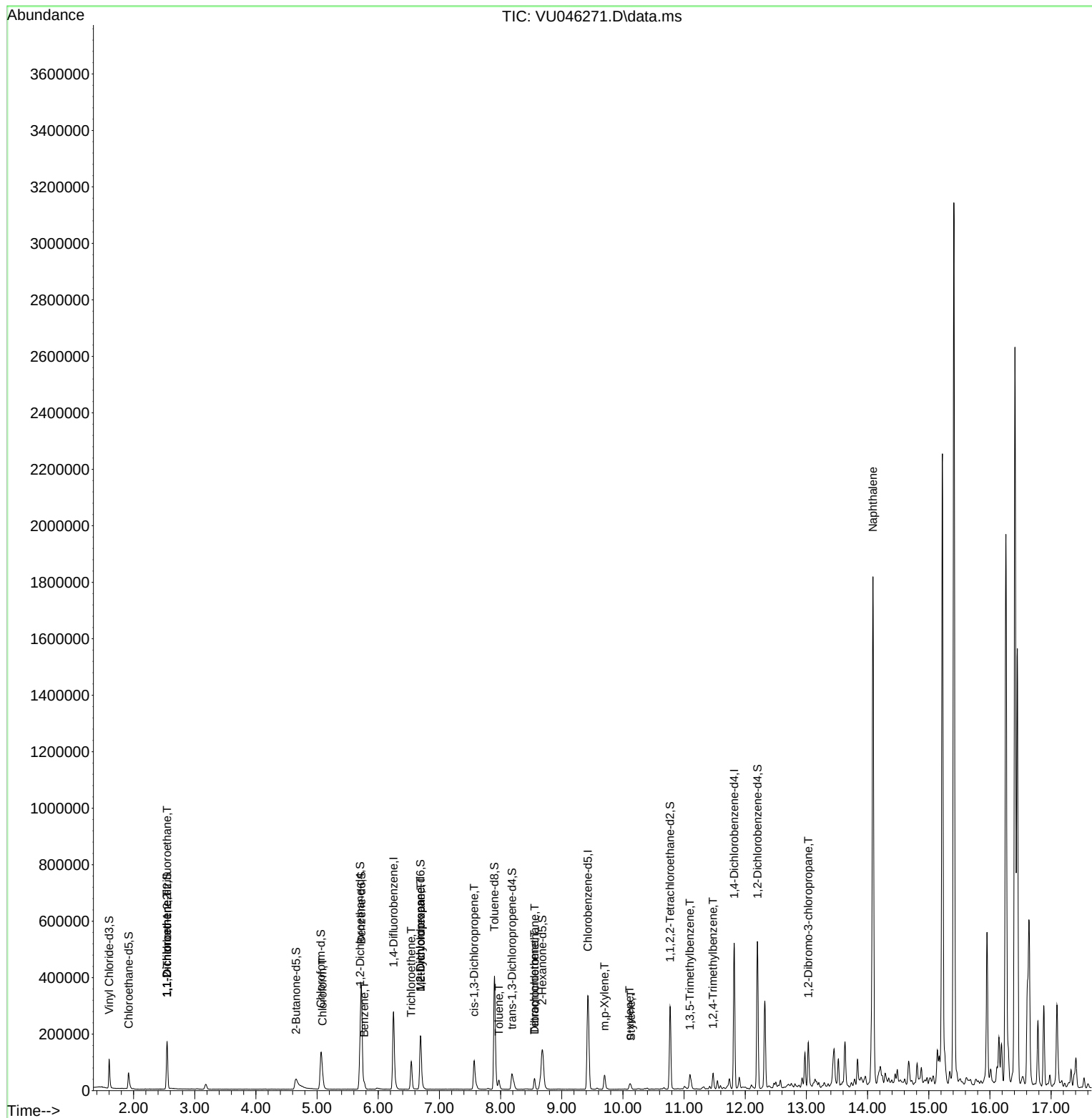
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

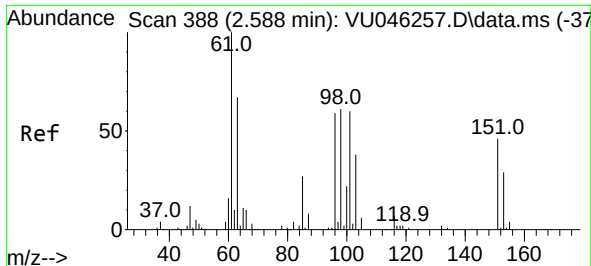
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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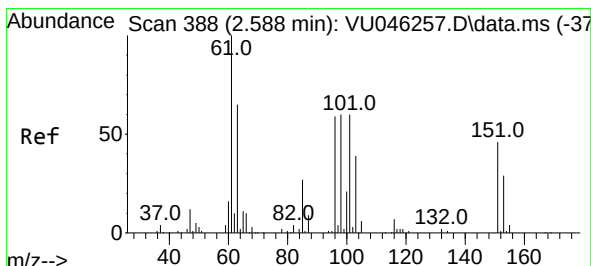
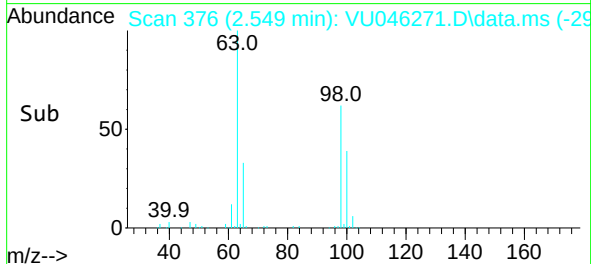
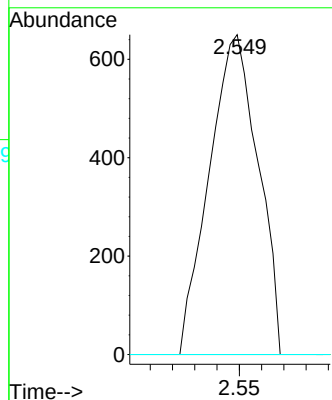
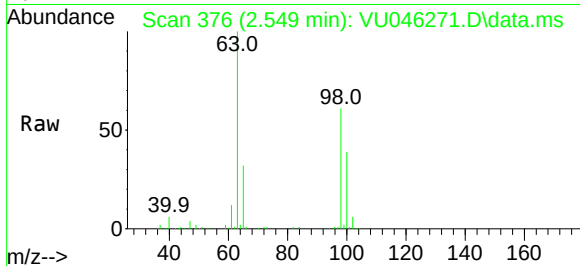




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.531 ug/L  
 RT: 2.549 min Scan# 31  
 Delta R.T. -0.039 min  
 Lab File: VU046271.D  
 Acq: 10 Dec 2021 17:30

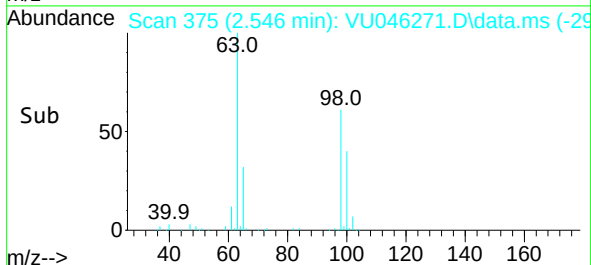
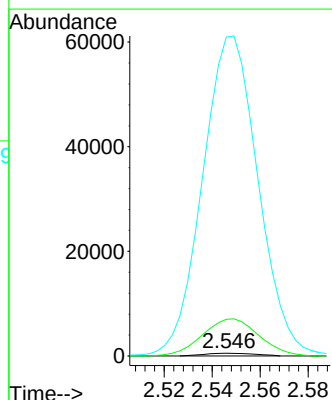
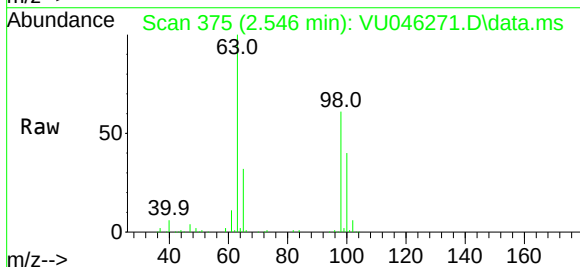
Instrument :  
 MSVOA\_U  
 ClientSampleId :

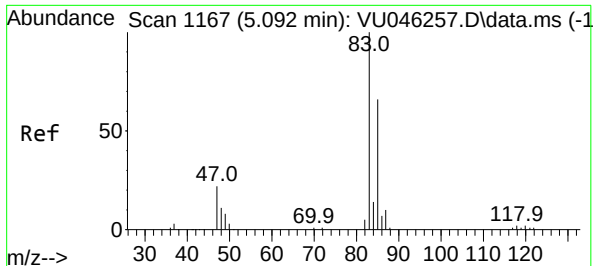
Tgt Ion:101 Resp: 991  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 35.1 52.7#  
 151 0.0 56.7 85.1#



#12  
 1,1-Dichloroethene  
 Concen: 0.438 ug/L  
 RT: 2.546 min Scan# 375  
 Delta R.T. -0.039 min  
 Lab File: VU046271.D  
 Acq: 10 Dec 2021 17:30

Tgt Ion: 96 Resp: 777  
 Ion Ratio Lower Upper  
 96 100  
 61 1372.0 118.6 220.2#  
 63 11954.5 93.0 172.8#





#25

Chloroform

Concen: 7.129 ug/L

RT: 5.089 min Scan# 1166

Delta R.T. -0.003 min

Lab File: VU046271.D

Acq: 10 Dec 2021 17:30

Instrument :

MSVOA\_U

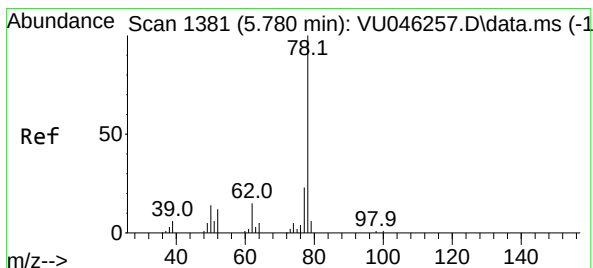
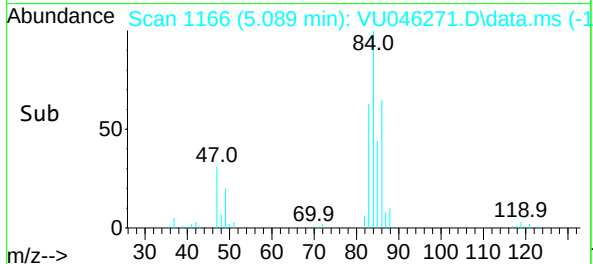
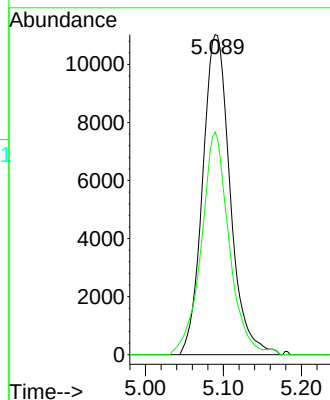
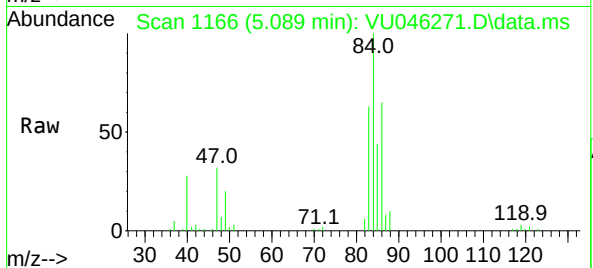
ClientSampleId :

Tgt Ion: 83 Resp: 27022

Ion Ratio Lower Upper

83 100

85 69.6 45.8 85.2



#33

Benzene

Concen: 2.423 ug/L

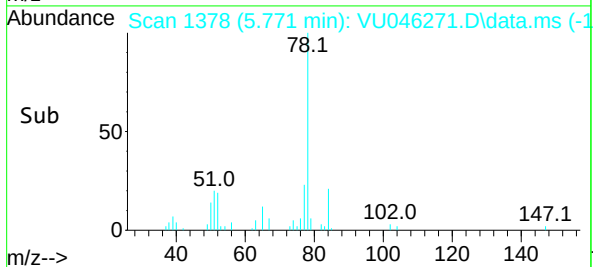
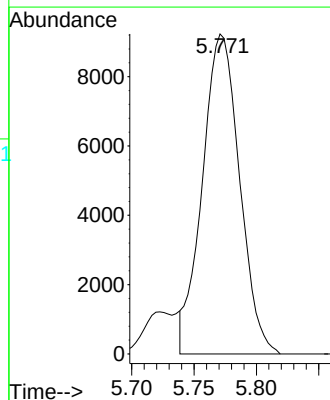
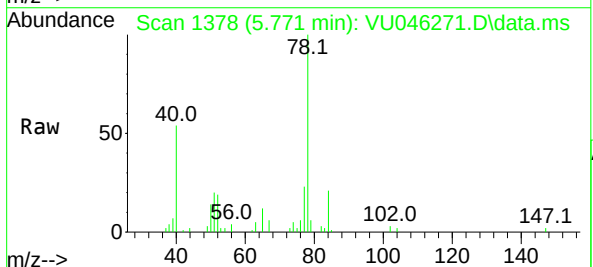
RT: 5.771 min Scan# 1378

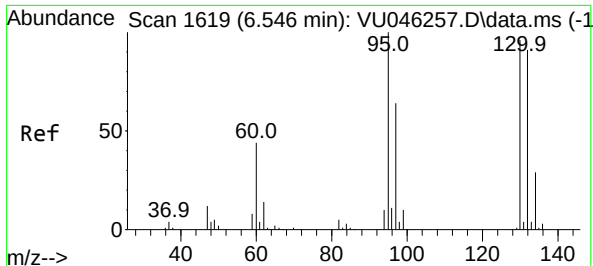
Delta R.T. -0.010 min

Lab File: VU046271.D

Acq: 10 Dec 2021 17:30

Tgt Ion: 78 Resp: 19158

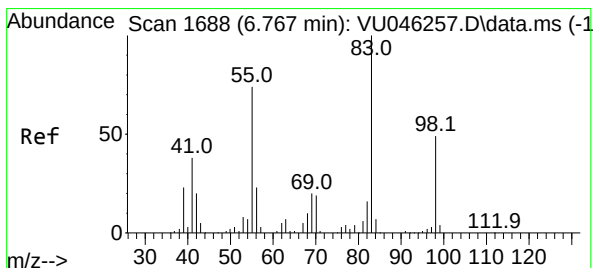
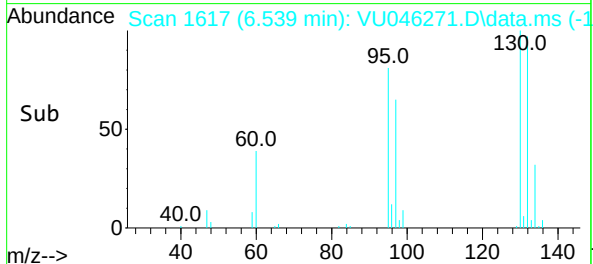
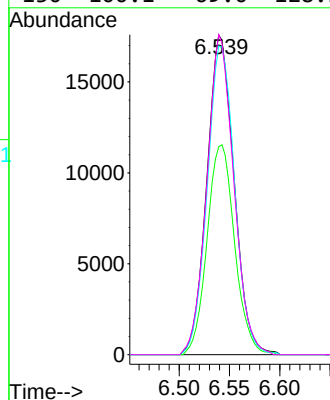
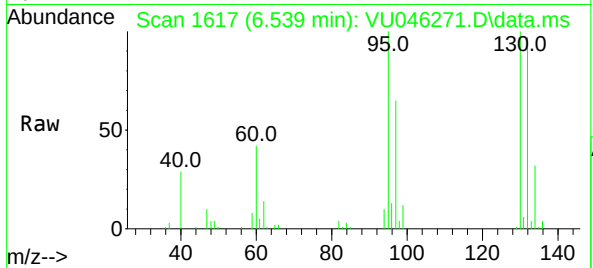




#34  
Trichloroethene  
Concen: 15.926 ug/L  
RT: 6.539 min Scan# 1665  
Delta R.T. -0.006 min  
Lab File: VU046271.D  
Acq: 10 Dec 2021 17:30

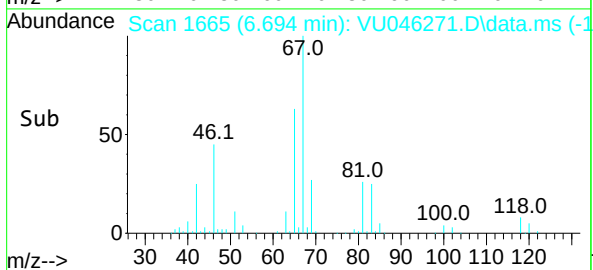
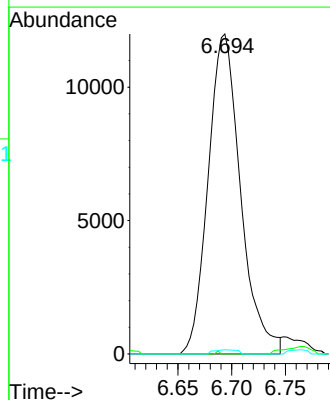
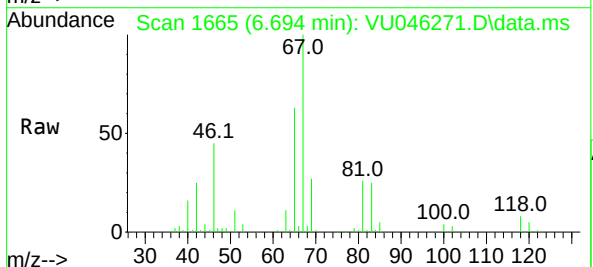
Instrument :  
MSVOA\_U  
ClientSampleId :

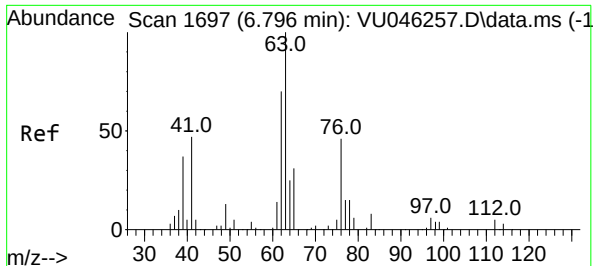
Tgt Ion: 95 Resp: 33169  
Ion Ratio Lower Upper  
95 100  
97 65.1 44.1 81.9  
132 96.6 66.8 124.0  
130 100.1 69.0 128.1



#35  
Methylcyclohexane  
Concen: 7.801 ug/L  
RT: 6.694 min Scan# 1665  
Delta R.T. -0.074 min  
Lab File: VU046271.D  
Acq: 10 Dec 2021 17:30

Tgt Ion: 83 Resp: 25192  
Ion Ratio Lower Upper  
83 100  
55 0.0 57.8 86.6#  
98 0.8 38.4 57.6#





#37

1,2-Dichloropropane

Concen: 5.379 ug/L

RT: 6.690 min Scan# 1

Delta R.T. -0.103 min

Lab File: VU046271.D

Acq: 10 Dec 2021 17:30

Instrument :

MSVOA\_U

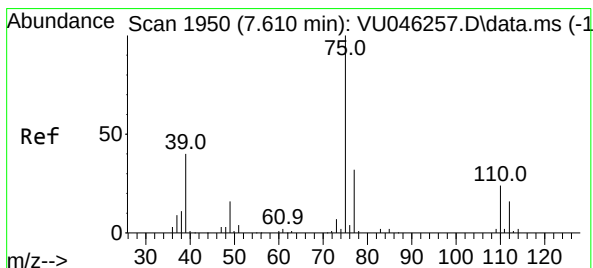
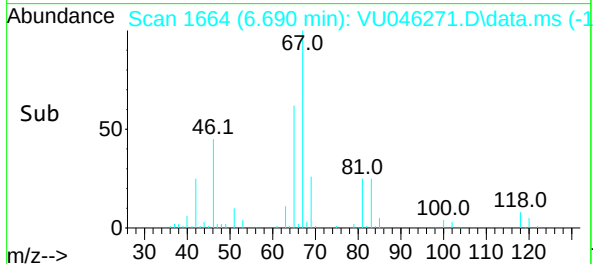
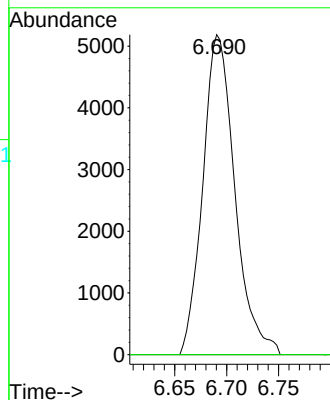
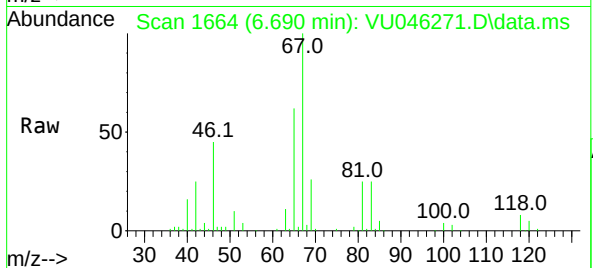
ClientSampleId :

Tgt Ion: 63 Resp: 11140

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 1.080 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU046271.D

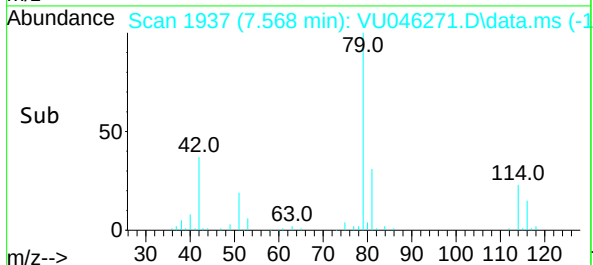
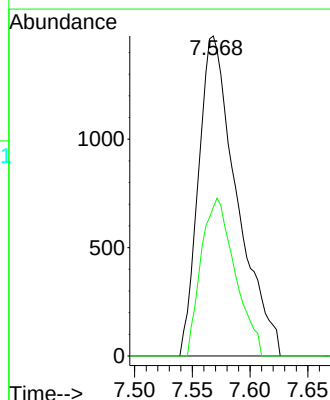
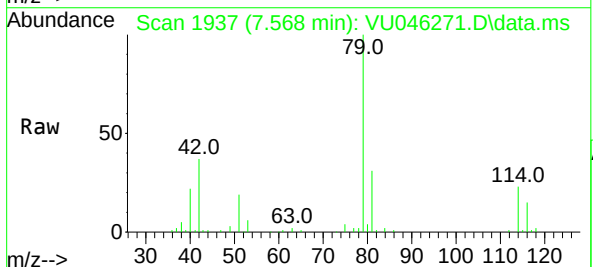
Acq: 10 Dec 2021 17:30

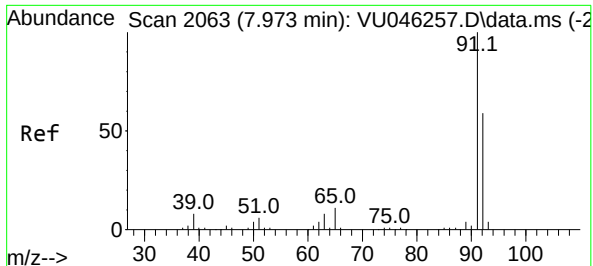
Tgt Ion: 75 Resp: 3403

Ion Ratio Lower Upper

75 100

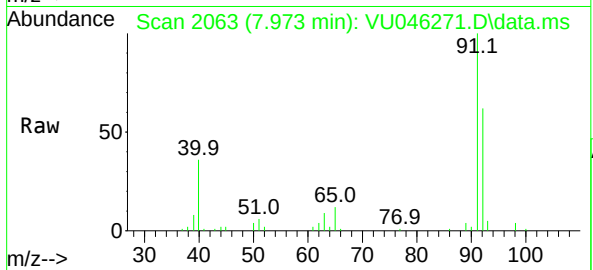
77 46.5 21.8 40.6#



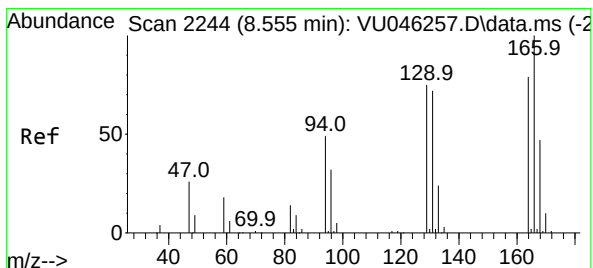
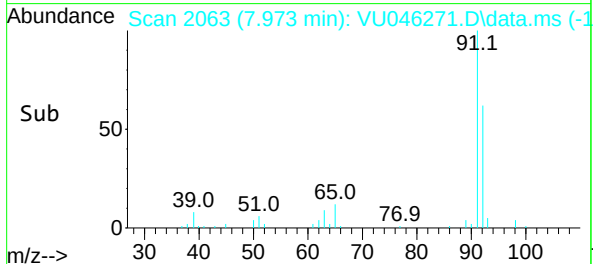
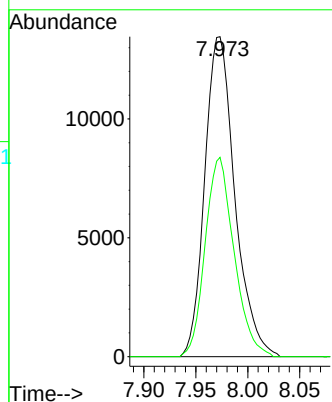


#42  
Toluene  
Concen: 3.199 ug/L  
RT: 7.973 min Scan# 2063  
Delta R.T. 0.000 min  
Lab File: VU046271.D  
Acq: 10 Dec 2021 17:30

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ClientSampleId :

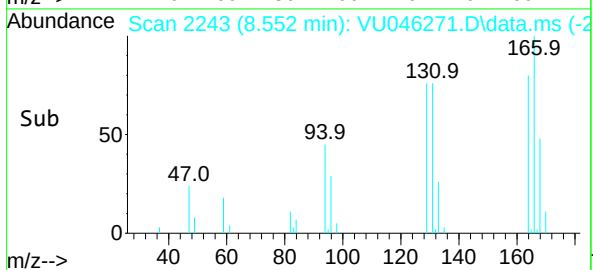
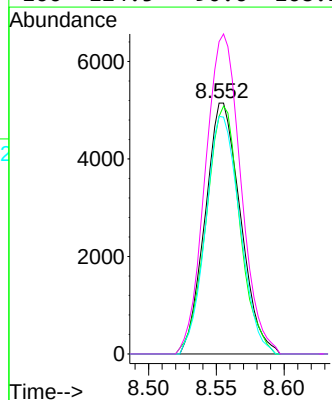
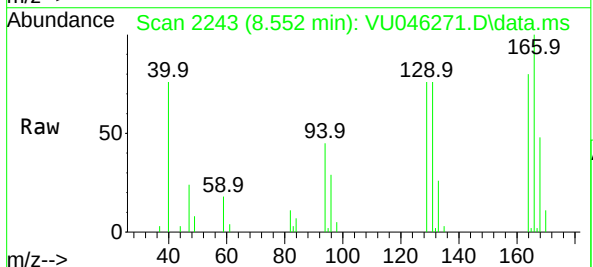


Tgt Ion: 91 Resp: 27134  
Ion Ratio Lower Upper  
91 100  
92 62.3 41.9 77.7

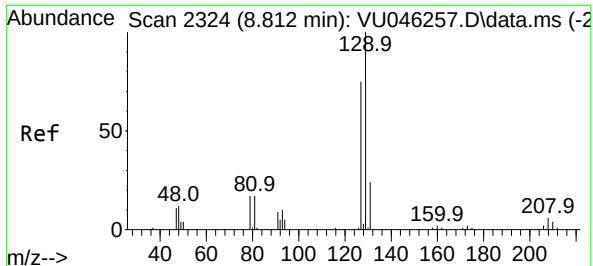


#46  
Tetrachloroethene  
Concen: 6.082 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. -0.003 min  
Lab File: VU046271.D  
Acq: 10 Dec 2021 17:30

Tgt Ion: 164 Resp: 9308  
Ion Ratio Lower Upper  
164 100  
129 94.7 71.1 132.1  
131 94.7 67.8 126.0  
166 124.5 90.6 168.2







#49

Dibromochloromethane

Concen: 4.021 ug/L

RT: 8.555 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU046271.D

Acq: 10 Dec 2021 17:30

Instrument :

MSVOA\_U

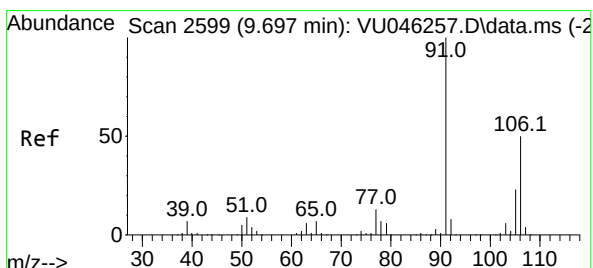
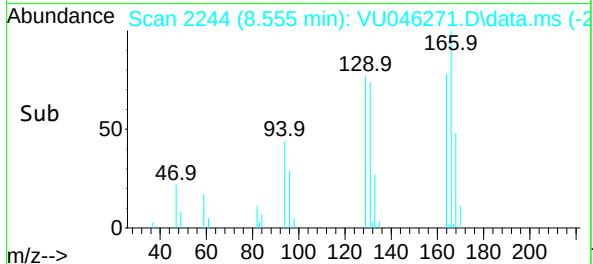
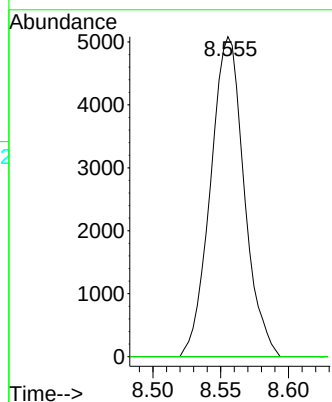
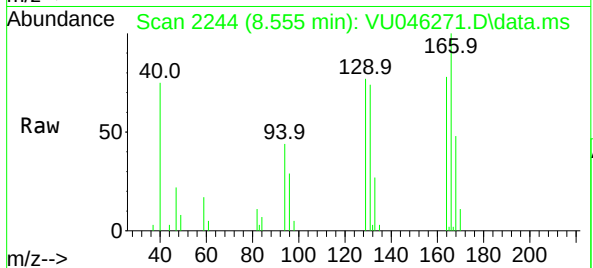
ClientSampleId :

Tgt Ion:129 Resp: 8772

Ion Ratio Lower Upper

129 100

127 0.0 55.6 103.4#



#53

m,p-Xylene

Concen: 4.904 ug/L

RT: 9.700 min Scan# 2600

Delta R.T. 0.003 min

Lab File: VU046271.D

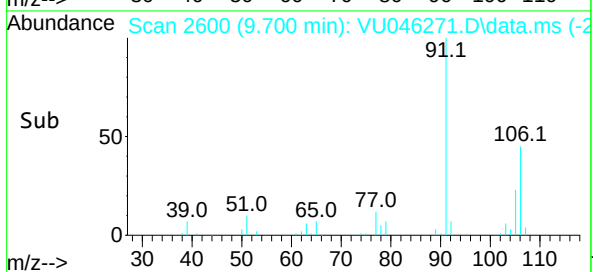
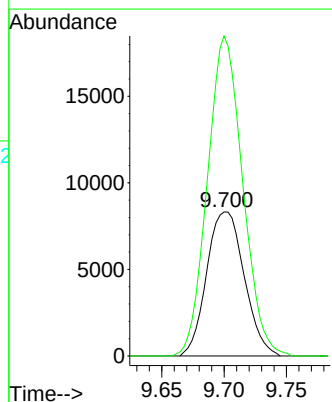
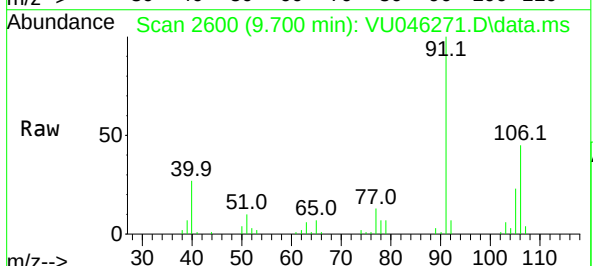
Acq: 10 Dec 2021 17:30

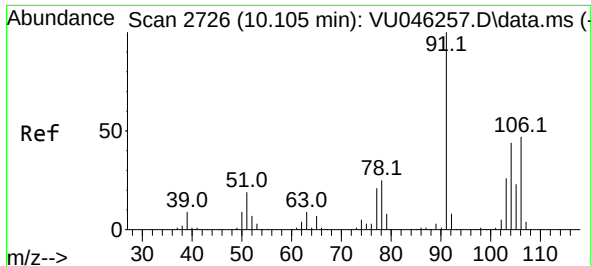
Tgt Ion:106 Resp: 17459

Ion Ratio Lower Upper

106 100

91 222.2 144.3 268.1

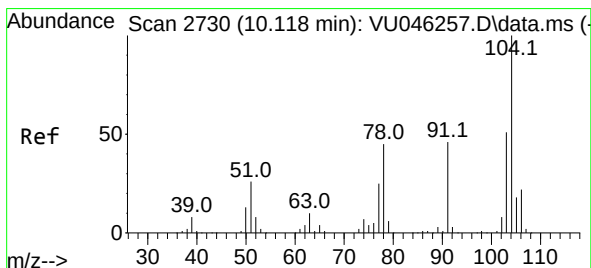
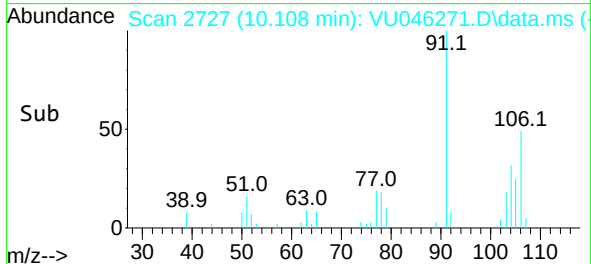
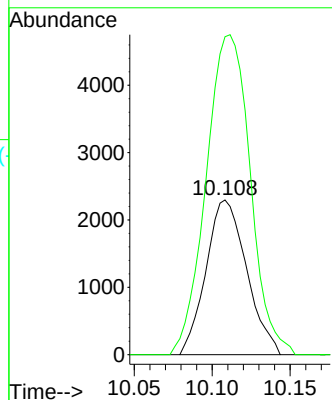
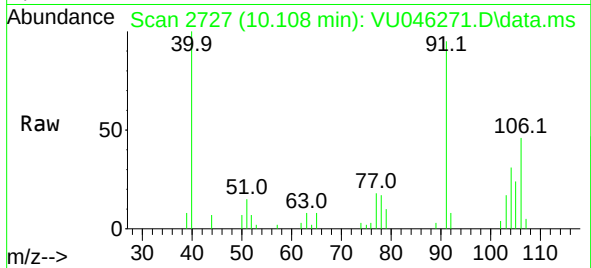




#54  
o-xylene  
Concen: 1.203 ug/L  
RT: 10.108 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU046271.D  
Acq: 10 Dec 2021 17:30

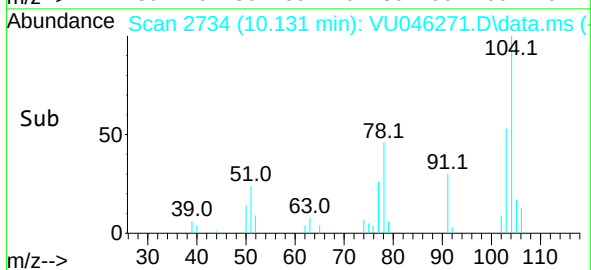
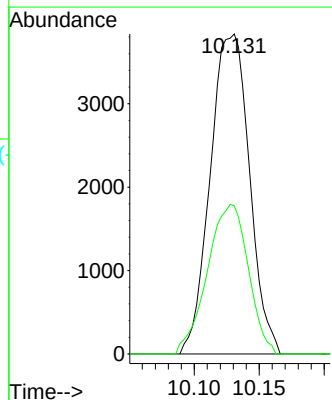
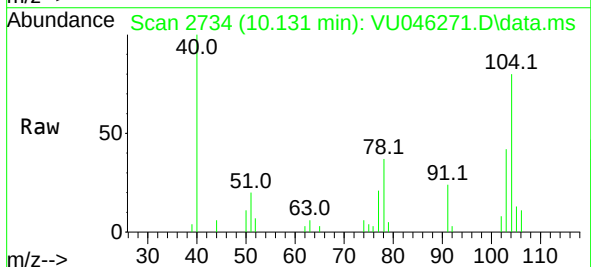
Instrument :  
MSVOA\_U  
ClientSampleId :

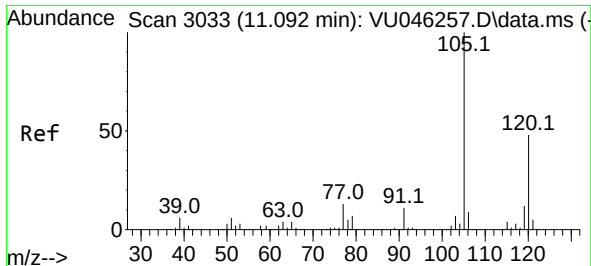
Tgt Ion:106 Resp: 4156  
Ion Ratio Lower Upper  
106 100  
91 205.4 154.2 286.4



#55  
Styrene  
Concen: 1.365 ug/L  
RT: 10.131 min Scan# 2734  
Delta R.T. 0.013 min  
Lab File: VU046271.D  
Acq: 10 Dec 2021 17:30

Tgt Ion:104 Resp: 8051  
Ion Ratio Lower Upper  
104 100  
78 46.3 32.6 60.5





#62

1,3,5-Trimethylbenzene

Concen: 3.861 ug/L

RT: 11.095 min Scan# 3033

Delta R.T. 0.003 min

Lab File: VU046271.D

Acq: 10 Dec 2021 17:30

Instrument :

MSVOA\_U

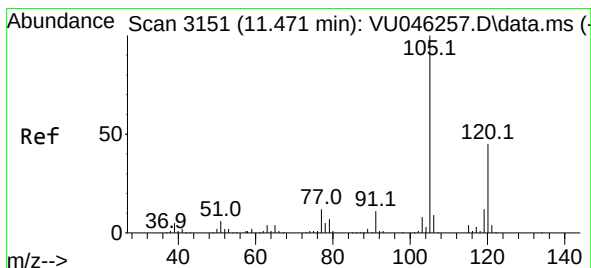
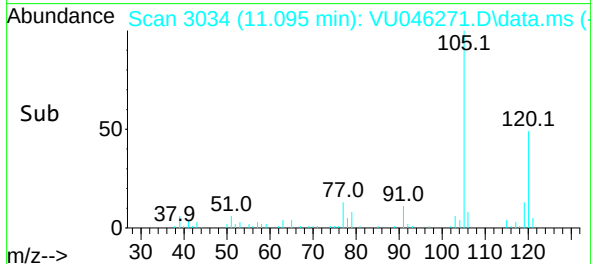
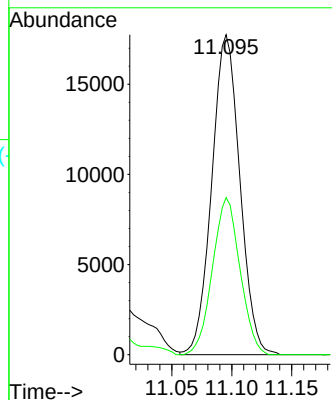
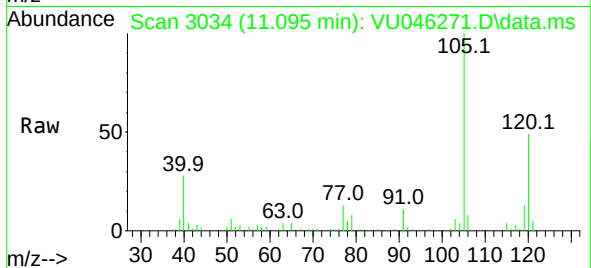
ClientSampleId :

Tgt Ion:105 Resp: 28912

Ion Ratio Lower Upper

105 100

120 48.0 37.8 56.6



#63

1,2,4-Trimethylbenzene

Concen: 4.092 ug/L

RT: 11.475 min Scan# 3152

Delta R.T. 0.003 min

Lab File: VU046271.D

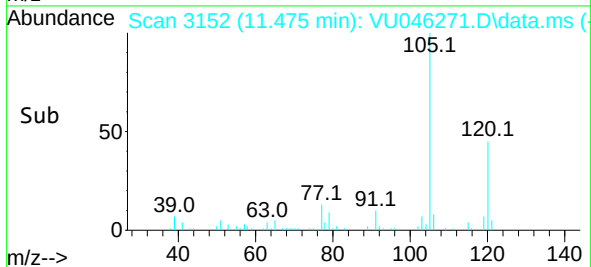
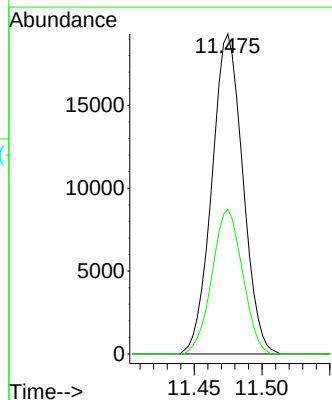
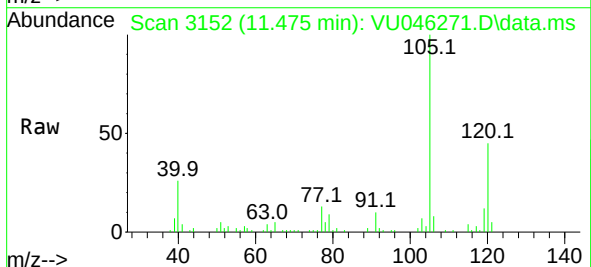
Acq: 10 Dec 2021 17:30

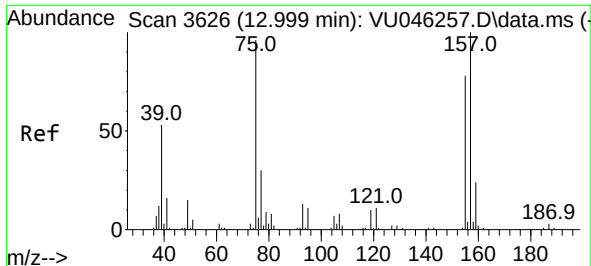
Tgt Ion:105 Resp: 30654

Ion Ratio Lower Upper

105 100

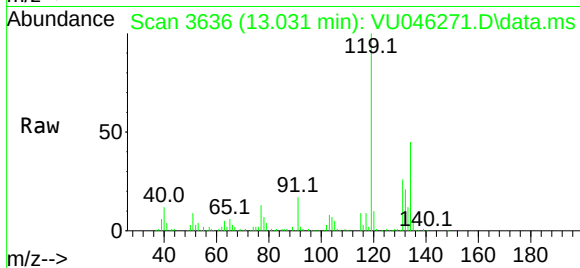
120 44.6 35.2 52.8



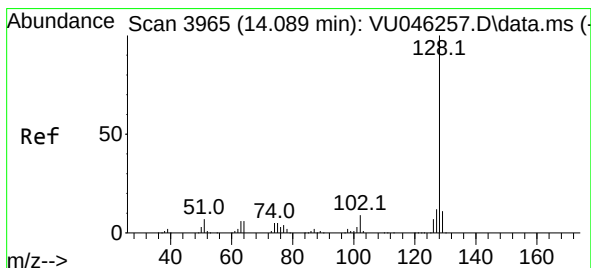
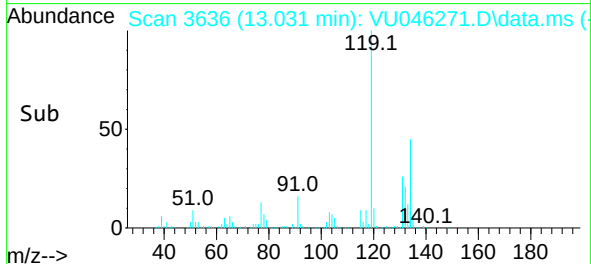
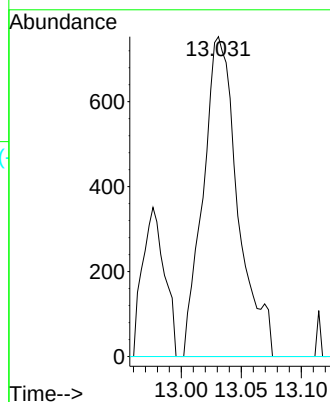


#68  
1,2-Dibromo-3-chloropropane  
Concen: 1.883 ug/L  
RT: 13.031 min Scan# 30  
Delta R.T. 0.032 min  
Lab File: VU046271.D  
Acq: 10 Dec 2021 17:30

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion: 75 Resp: 1518  
Ion Ratio Lower Upper  
75 100  
155 0.0 64.9 97.3#  
157 0.0 81.9 122.9#



#71  
Naphthalene  
Concen: 146.660 ug/L  
RT: 14.089 min Scan# 3965  
Delta R.T. -0.000 min  
Lab File: VU046271.D  
Acq: 10 Dec 2021 17:30

Tgt Ion:128 Resp: 1408041  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.1 15.1  
129 11.1 8.6 13.0

