

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU021125\  
 Data File : VU063235.D  
 Acq On : 11 Feb 2025 14:20  
 Operator : MD/SY  
 Sample : Q1172-10  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Feb 12 03:19:10 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U021025DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Feb 11 08:42:19 2025  
 Response via : Initial Calibration

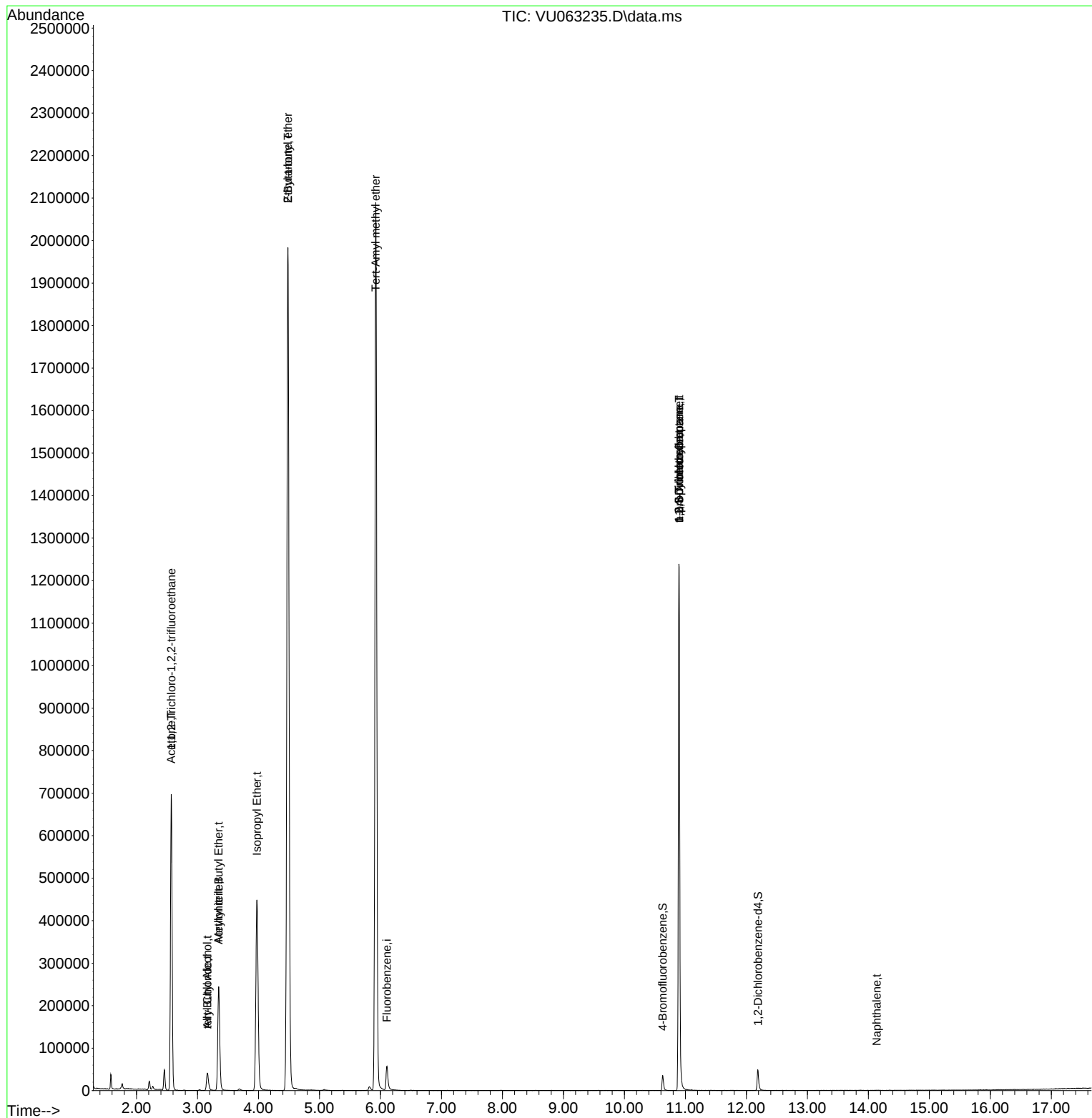
| Compound                     | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|--------|------|----------|--------|---------|----------|
| -----                        |        |      |          |        |         |          |
| Internal Standards           |        |      |          |        |         |          |
| 1) Fluorobenzene             | 6.106  | 96   | 55886    | 1.000  | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |         |          |
| 57) 4-Bromofluorobenzene     | 10.627 | 95   | 13463    | 0.730  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 73.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.190 | 152  | 15295    | 0.798  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 80.000% |          |
| Target Compounds             |        |      |          |        |         |          |
|                              |        |      |          |        |         | Qvalue   |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.570  | 101  | 283702   | 20.387 | ug/l    | 99       |
| 11) Allyl Chloride           | 3.161  | 41   | 10151    | 0.498  | ug/l #  | 67       |
| 12) Acrylonitrile            | 3.345  | 53   | 3530     | 1.079  | ug/l #  | 27       |
| 13) Acetone                  | 2.566  | 43   | 3055     | 1.215  | ug/l    | 94       |
| 18) 2-Butanone               | 4.483  | 43   | 209529   | 52.356 | ug/l #  | 1        |
| 24) tert-Butyl Alcohol       | 3.161  | 59   | 46575    | 33.131 | ug/l    | 99       |
| 25) Methyl tert-Butyl Ether  | 3.348  | 73   | 267426   | 7.552  | ug/l    | 99       |
| 31) Isopropyl Ether          | 3.975  | 45   | 460999   | 10.586 | ug/l    | 99       |
| 32) Ethyl-t-butyl ether      | 4.483  | 59   | 2082517  | 52.588 | ug/l    | 100      |
| 33) Tert-Amyl methyl ether   | 5.923  | 73   | 1712141  | 49.484 | ug/l    | 100      |
| 46) t-1,4-Dichloro-2-butene  | 10.897 | 75   | 6243     | 1.392  | ug/l #  | 1        |
| 71) 1,2,3-Trichloropropane   | 10.897 | 75   | 6243     | 0.502  | ug/l #  | 44       |
| 73) n-propylbenzene          | 10.897 | 120  | 208134   | 11.766 | ug/l    | 98       |
| 75) 1,3,5-Trimethylbenzene   | 10.897 | 105  | 33596    | 0.587  | ug/l #  | 1        |
| 89) Naphthalene              | 14.138 | 128  | 339      | 0.667  | ug/l #  | 69       |
| -----                        |        |      |          |        |         |          |

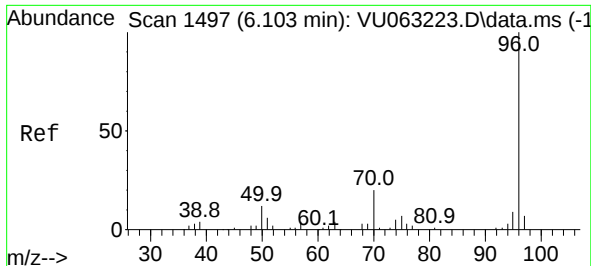
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU021125\  
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Sample : Q1172-10  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

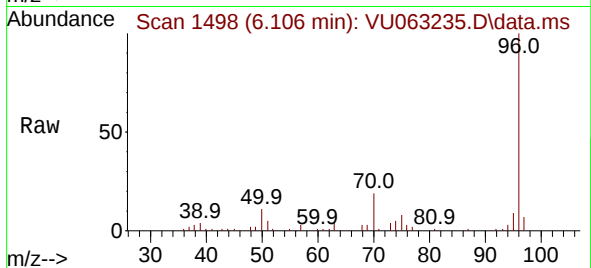
Quant Time: Feb 12 03:19:10 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U021025DW.M  
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
QLast Update : Tue Feb 11 08:42:19 2025  
Response via : Initial Calibration



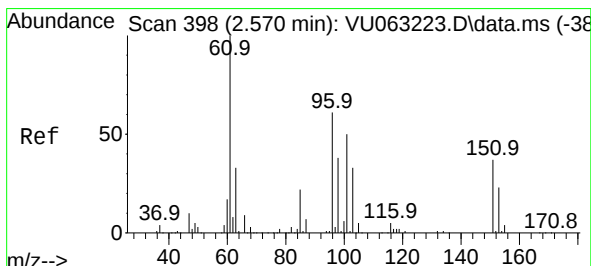
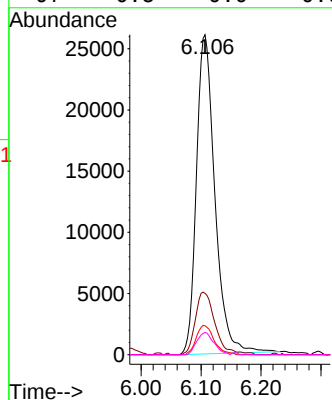
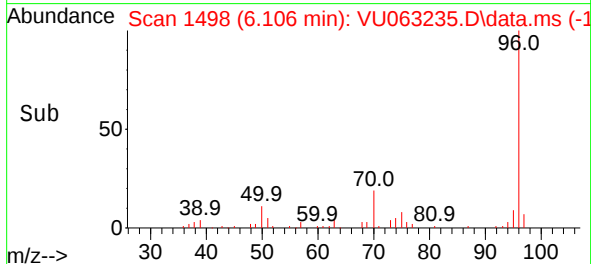


#1  
Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.106 min Scan# 1497  
Delta R.T. 0.003 min  
Lab File: VU063235.D  
Acq: 11 Feb 2025 14:20

Instrument :  
MSVOA\_U  
ClientSampleId :

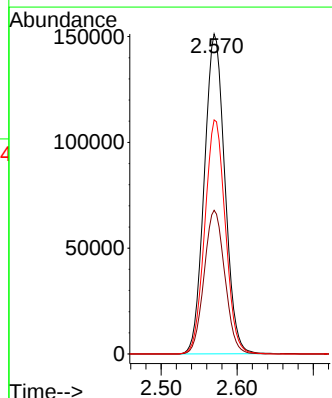
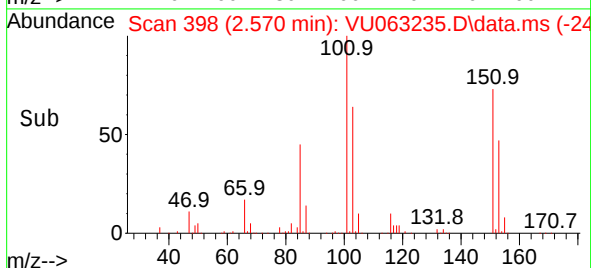
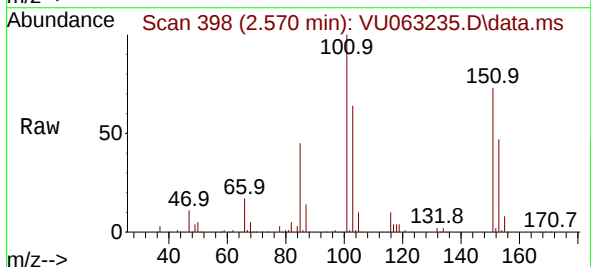


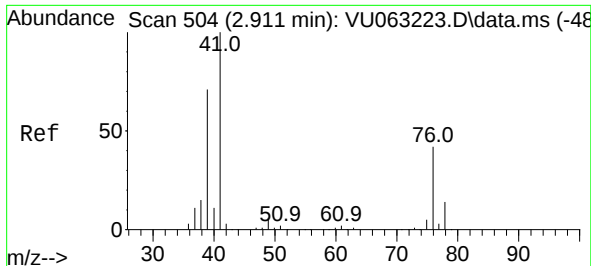
Tgt Ion: 96 Resp: 55886  
Ion Ratio Lower Upper  
96 100  
70 20.0 15.6 23.4  
95 8.9 7.3 10.9  
97 6.5 0.0 0.0#



#8  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 20.387 ug/l  
RT: 2.570 min Scan# 398  
Delta R.T. -0.000 min  
Lab File: VU063235.D  
Acq: 11 Feb 2025 14:20

Tgt Ion:101 Resp: 283702  
Ion Ratio Lower Upper  
101 100  
85 45.2 35.4 53.0  
151 73.2 58.5 87.7





#11

Allyl Chloride

Concen: 0.498 ug/l

RT: 3.161 min Scan# 504

Delta R.T. 0.251 min

Lab File: VU063235.D

Acq: 11 Feb 2025 14:20

Instrument :

MSVOA\_U

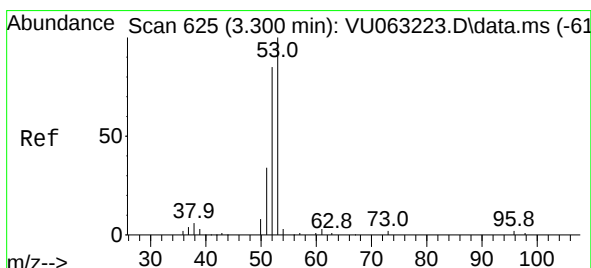
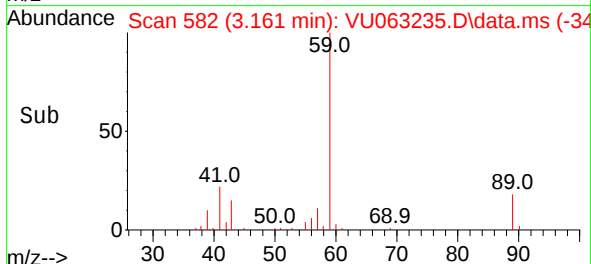
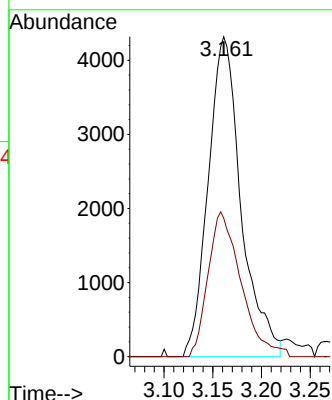
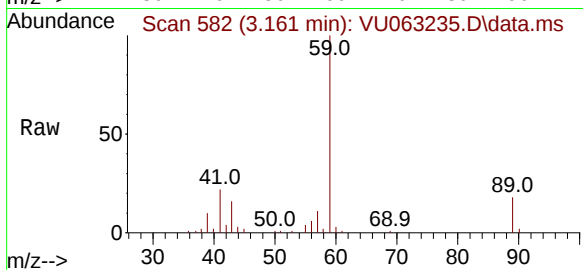
ClientSampleId :

Tgt Ion: 41 Resp: 10151

Ion Ratio Lower Upper

41 100

39 45.2 57.9 86.9#



#12

Acrylonitrile

Concen: 1.079 ug/l

RT: 3.345 min Scan# 639

Delta R.T. 0.045 min

Lab File: VU063235.D

Acq: 11 Feb 2025 14:20

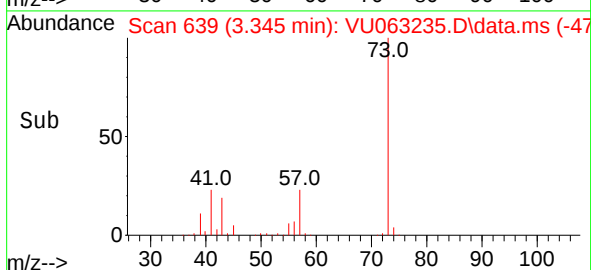
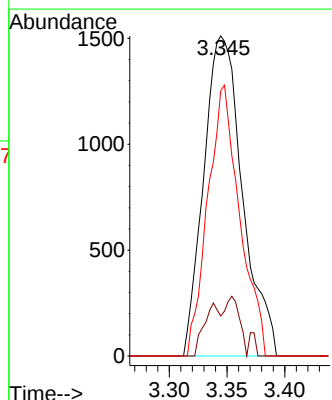
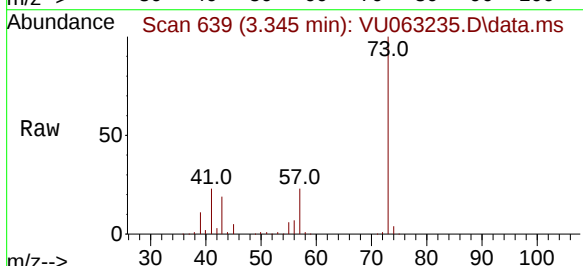
Tgt Ion: 53 Resp: 3530

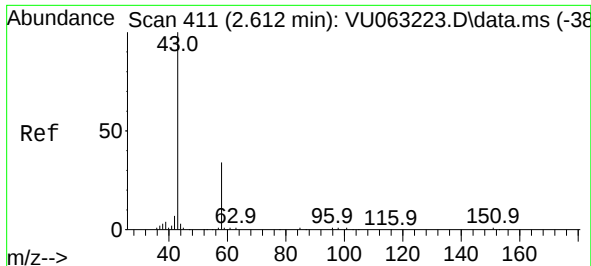
Ion Ratio Lower Upper

53 100

52 7.1 64.2 96.2#

51 69.6 30.8 46.2#

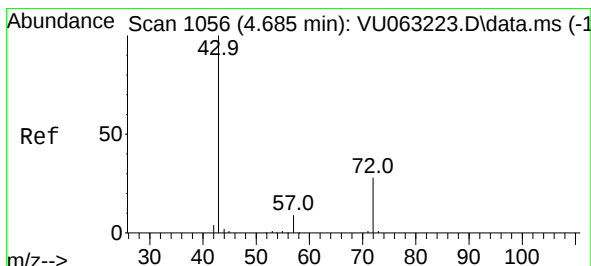
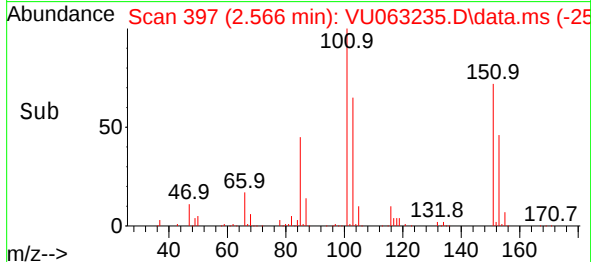
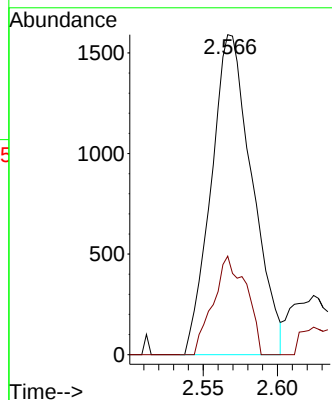
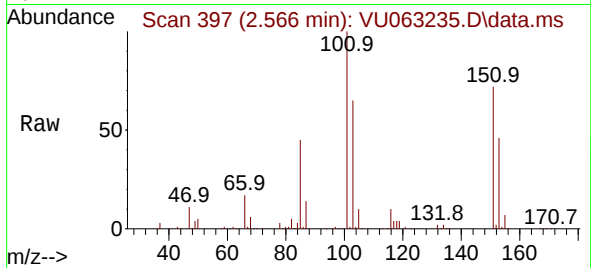




#13  
Acetone  
Concen: 1.215 ug/l  
RT: 2.566 min Scan# 30  
Delta R.T. -0.045 min  
Lab File: VU063235.D  
Acq: 11 Feb 2025 14:20

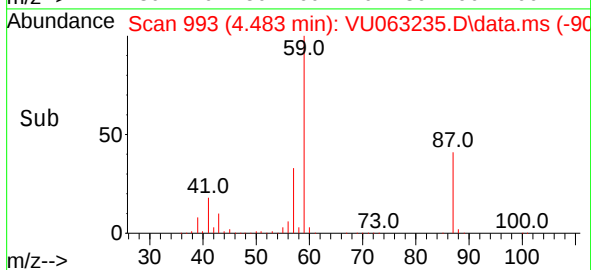
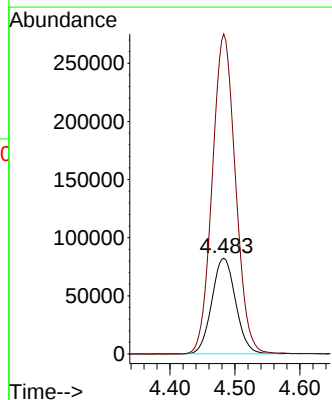
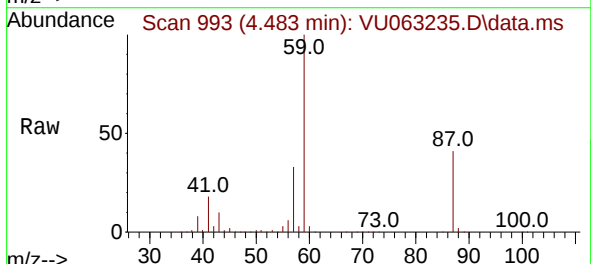
Instrument :  
MSVOA\_U  
ClientSampleId :

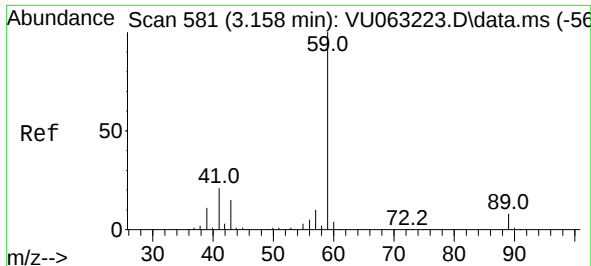
Tgt Ion: 43 Resp: 3055  
Ion Ratio Lower Upper  
43 100  
58 30.8 27.4 41.0



#18  
2-Butanone  
Concen: 52.356 ug/l  
RT: 4.483 min Scan# 993  
Delta R.T. -0.203 min  
Lab File: VU063235.D  
Acq: 11 Feb 2025 14:20

Tgt Ion: 43 Resp: 209529  
Ion Ratio Lower Upper  
43 100  
57 334.3 0.0 17.0#

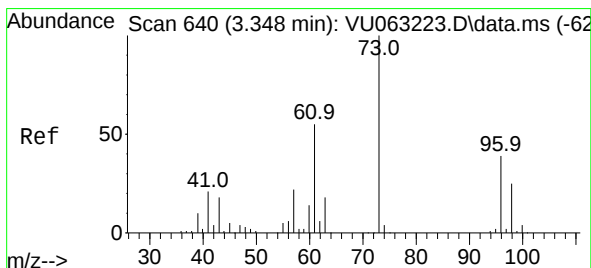
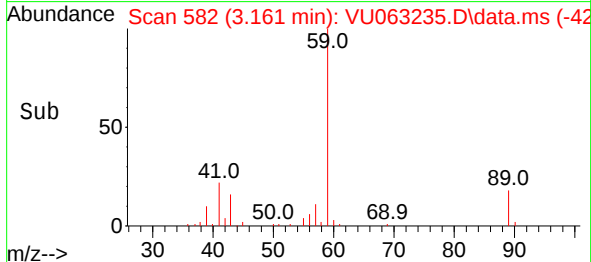
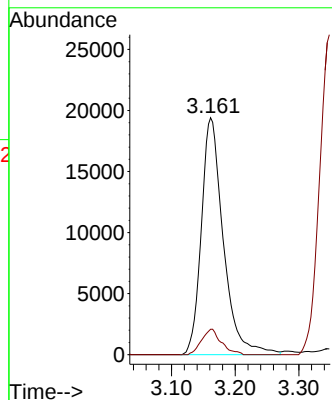
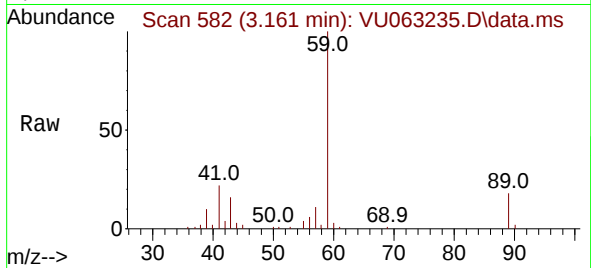




#24  
tert-Butyl Alcohol  
Concen: 33.131 ug/l  
RT: 3.161 min Scan# 581  
Delta R.T. 0.003 min  
Lab File: VU063235.D  
Acq: 11 Feb 2025 14:20

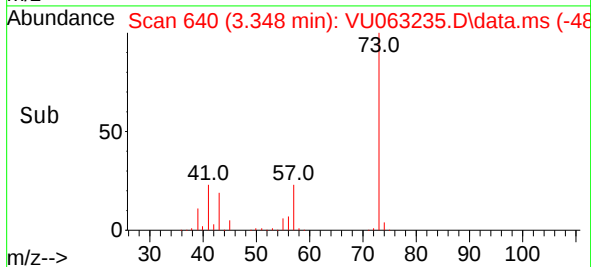
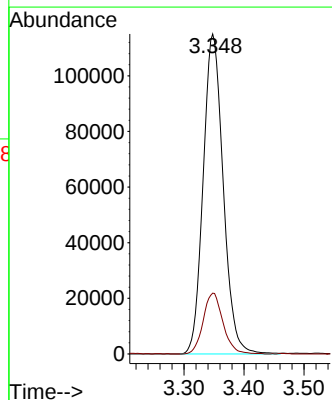
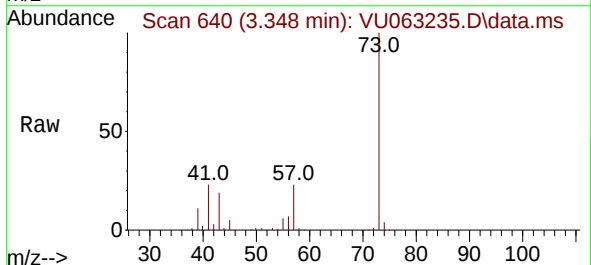
Instrument :  
MSVOA\_U  
ClientSampleId :

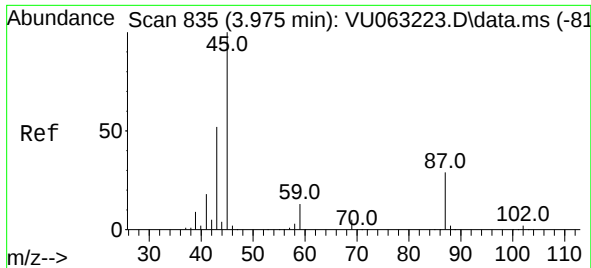
Tgt Ion: 59 Resp: 46575  
Ion Ratio Lower Upper  
59 100  
57 9.6 7.5 11.3



#25  
Methyl tert-Butyl Ether  
Concen: 7.552 ug/l  
RT: 3.348 min Scan# 640  
Delta R.T. -0.000 min  
Lab File: VU063235.D  
Acq: 11 Feb 2025 14:20

Tgt Ion: 73 Resp: 267426  
Ion Ratio Lower Upper  
73 100  
43 18.8 14.9 22.3

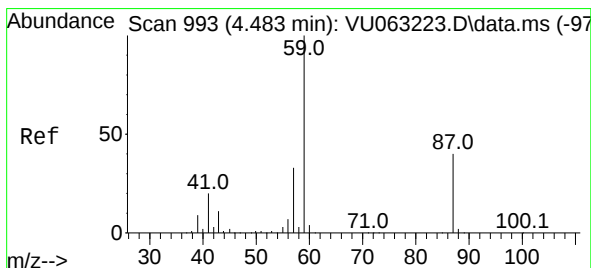
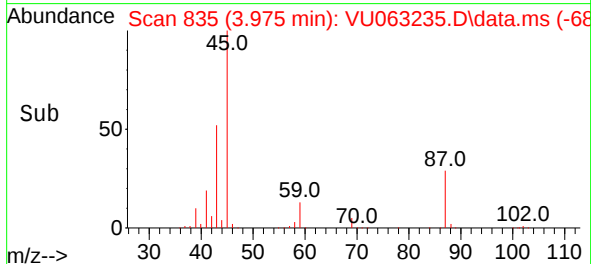
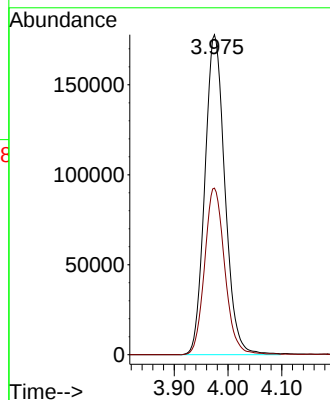
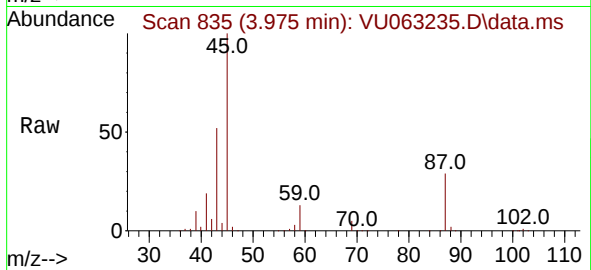




#31  
Isopropyl Ether  
Concen: 10.586 ug/l  
RT: 3.975 min Scan# 835  
Delta R.T. -0.000 min  
Lab File: VU063235.D  
Acq: 11 Feb 2025 14:20

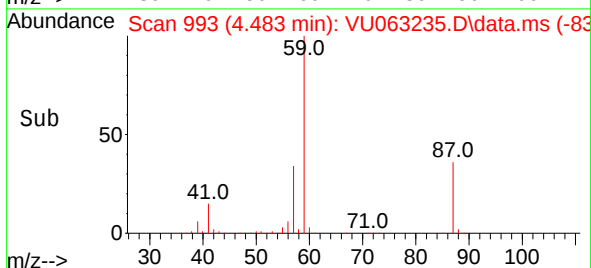
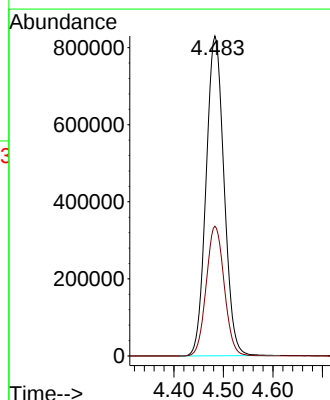
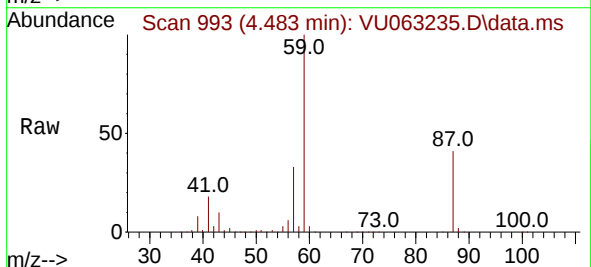
Instrument :  
MSVOA\_U  
ClientSampleId :

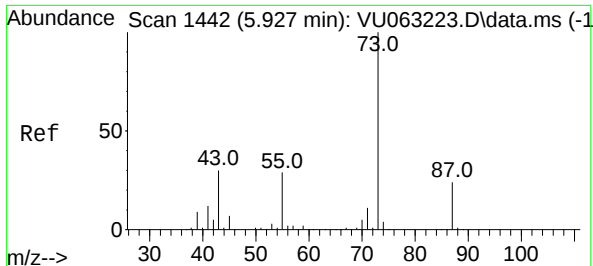
Tgt Ion: 45 Resp: 460999  
Ion Ratio Lower Upper  
45 100  
43 52.2 25.7 77.1



#32  
Ethyl-t-butyl ether  
Concen: 52.588 ug/l  
RT: 4.483 min Scan# 993  
Delta R.T. -0.000 min  
Lab File: VU063235.D  
Acq: 11 Feb 2025 14:20

Tgt Ion: 59 Resp: 2082517  
Ion Ratio Lower Upper  
59 100  
87 40.8 32.6 49.0





#33

Tert-Amyl methyl ether

Concen: 49.484 ug/l

RT: 5.923 min Scan# 1442

Delta R.T. -0.003 min

Lab File: VU063235.D

Acq: 11 Feb 2025 14:20

Instrument :

MSVOA\_U

ClientSampleId :

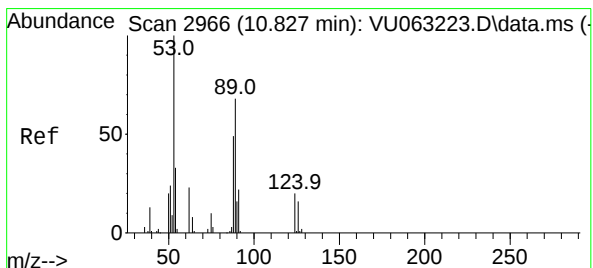
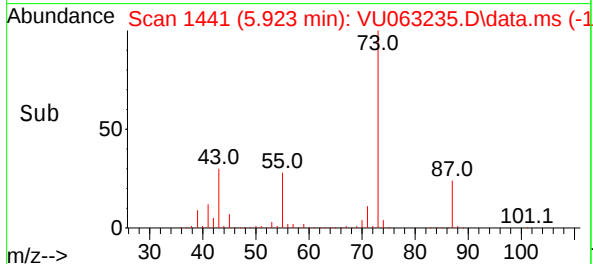
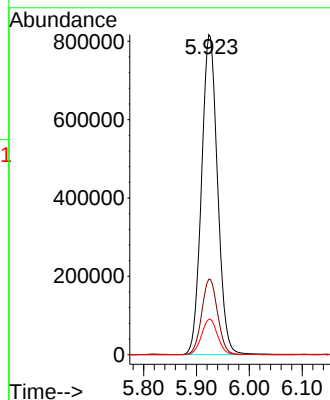
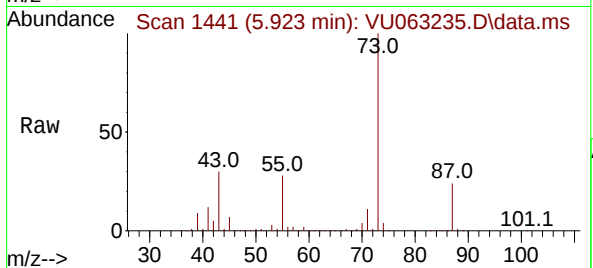
Tgt Ion: 73 Resp: 1712141

Ion Ratio Lower Upper

73 100

87 23.5 18.9 28.3

71 11.2 9.0 13.4



#46

t-1,4-Dichloro-2-butene

Concen: 1.392 ug/l

RT: 10.897 min Scan# 2988

Delta R.T. 0.071 min

Lab File: VU063235.D

Acq: 11 Feb 2025 14:20

Tgt Ion: 75 Resp: 6243

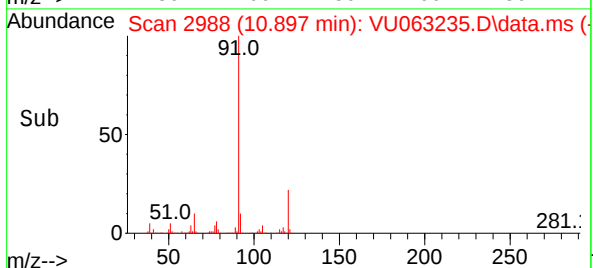
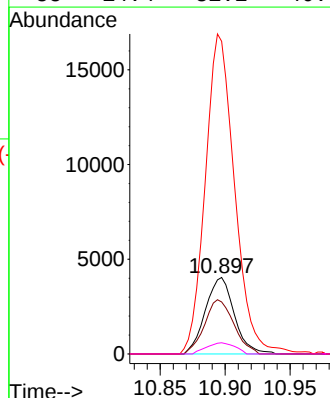
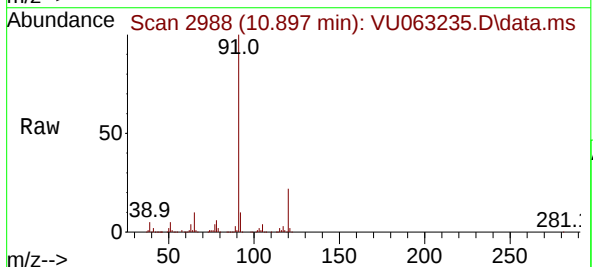
Ion Ratio Lower Upper

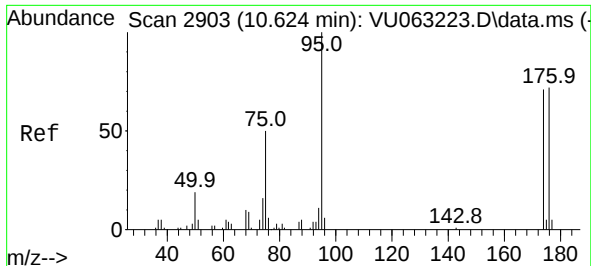
75 100

53 71.6 64.5 96.7

89 425.9 43.4 65.2#

88 14.4 31.2 46.8#





#57

4-Bromofluorobenzene

Concen: 0.730 ug/l

RT: 10.627 min Scan# 2904

Delta R.T. 0.003 min

Lab File: VU063235.D

Acq: 11 Feb 2025 14:20

Instrument :

MSVOA\_U

ClientSampleId :

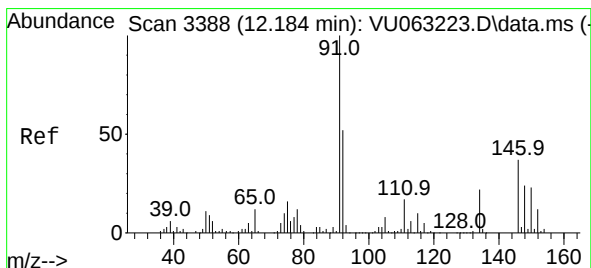
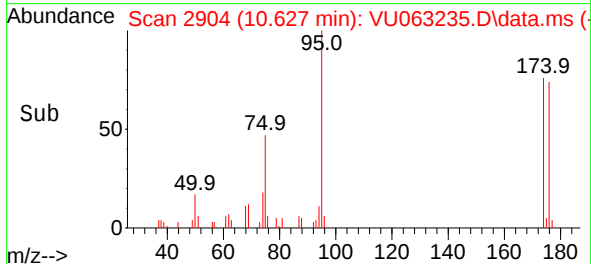
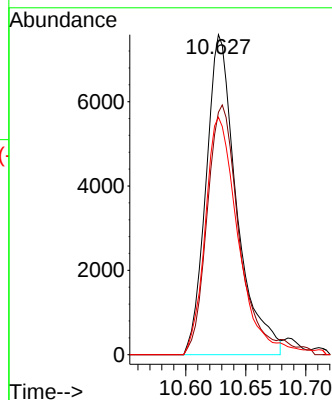
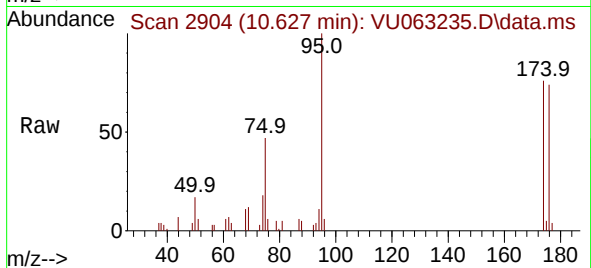
Tgt Ion: 95 Resp: 13463

Ion Ratio Lower Upper

95 100

174 83.6 58.6 88.0

176 80.2 58.2 87.4



#68

1,2-Dichlorobenzene-d4

Concen: 0.798 ug/l

RT: 12.190 min Scan# 3390

Delta R.T. 0.006 min

Lab File: VU063235.D

Acq: 11 Feb 2025 14:20

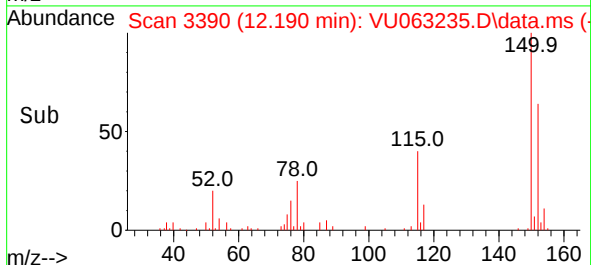
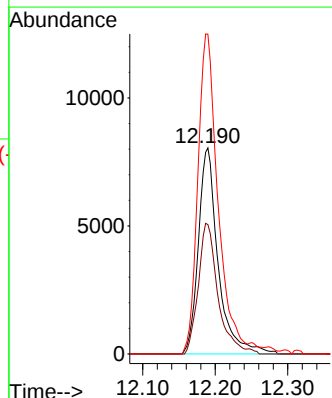
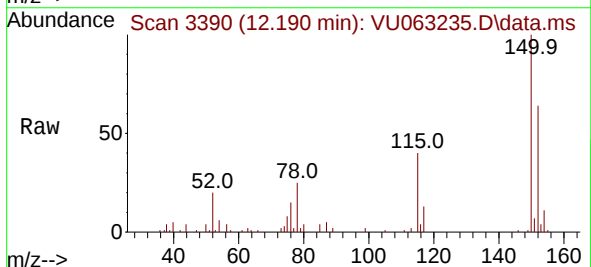
Tgt Ion:152 Resp: 15295

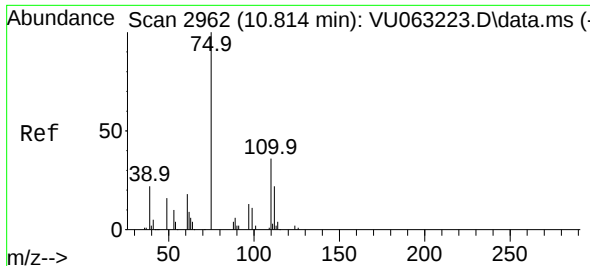
Ion Ratio Lower Upper

152 100

115 63.2 0.0 275.2

150 156.9 0.0 658.4

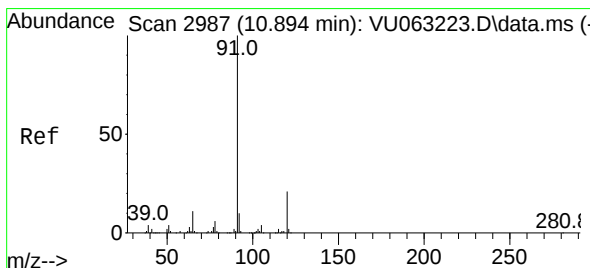
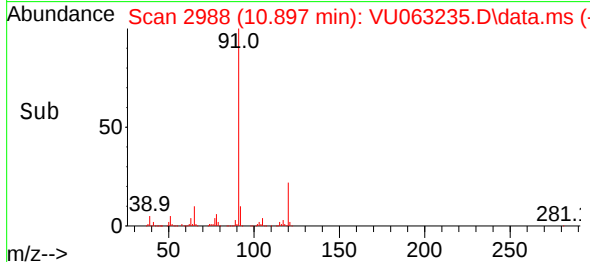
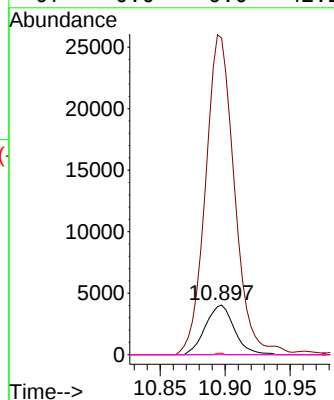
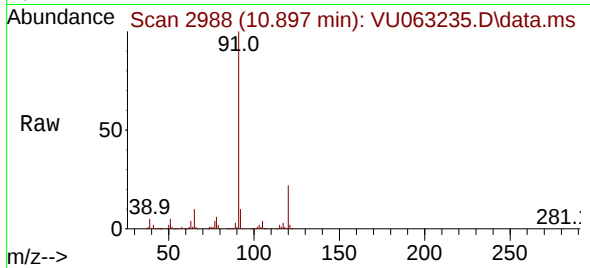




#71  
1,2,3-Trichloropropane  
Concen: 0.502 ug/l  
RT: 10.897 min Scan# 2962  
Delta R.T. 0.083 min  
Lab File: VU063235.D  
Acq: 11 Feb 2025 14:20

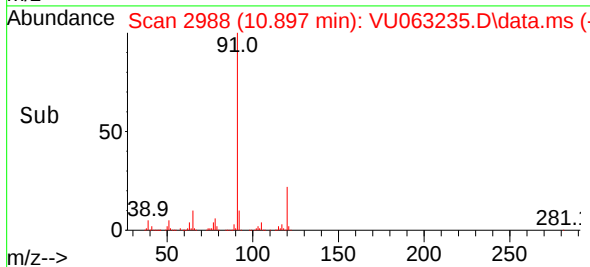
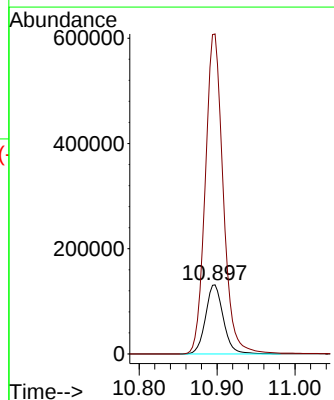
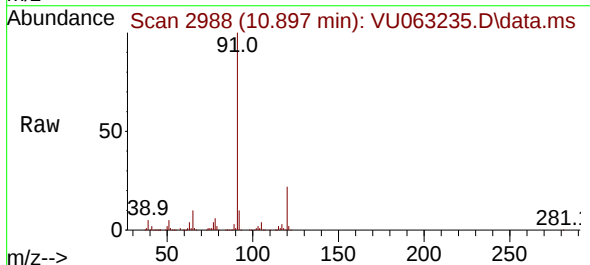
Instrument :  
MSVOA\_U  
ClientSampleId :

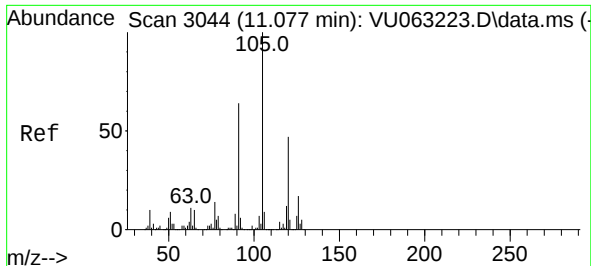
Tgt Ion: 75 Resp: 6243  
Ion Ratio Lower Upper  
75 100  
77 646.9 0.0 0.0#  
110 0.8 0.0 77.0  
97 0.0 0.0 42.2



#73  
n-propylbenzene  
Concen: 11.766 ug/l  
RT: 10.897 min Scan# 2988  
Delta R.T. 0.003 min  
Lab File: VU063235.D  
Acq: 11 Feb 2025 14:20

Tgt Ion:120 Resp: 208134  
Ion Ratio Lower Upper  
120 100  
91 466.7 369.8 554.6





#75

1,3,5-Trimethylbenzene

Concen: 0.587 ug/l

RT: 10.897 min Scan# 20

Delta R.T. -0.180 min

Lab File: VU063235.D

Acq: 11 Feb 2025 14:20

Instrument :

MSVOA\_U

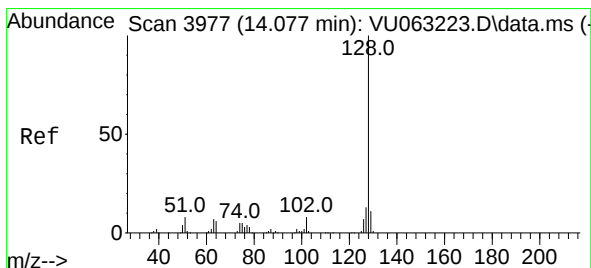
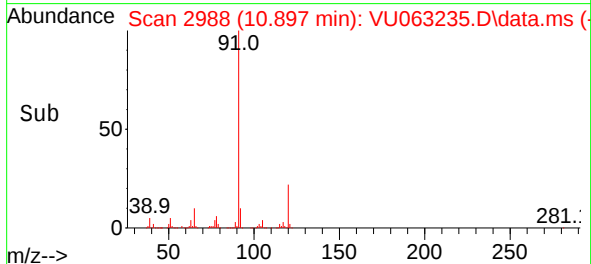
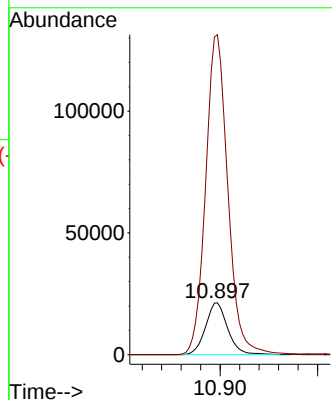
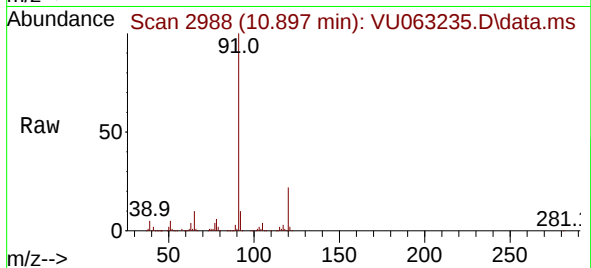
ClientSampleId :

Tgt Ion:105 Resp: 33596

Ion Ratio Lower Upper

105 100

120 619.5 37.3 55.9#



#89

Naphthalene

Concen: 0.667 ug/l

RT: 14.138 min Scan# 3996

Delta R.T. 0.061 min

Lab File: VU063235.D

Acq: 11 Feb 2025 14:20

Tgt Ion:128 Resp: 339

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#

