

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112221\  
 Data File : VU045940.D  
 Acq On : 23 Nov 2021 02:08  
 Operator : SY/MD  
 Sample : M4775-06  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 23 06:51:28 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 05 13:35:16 2021  
 Response via : Initial Calibration

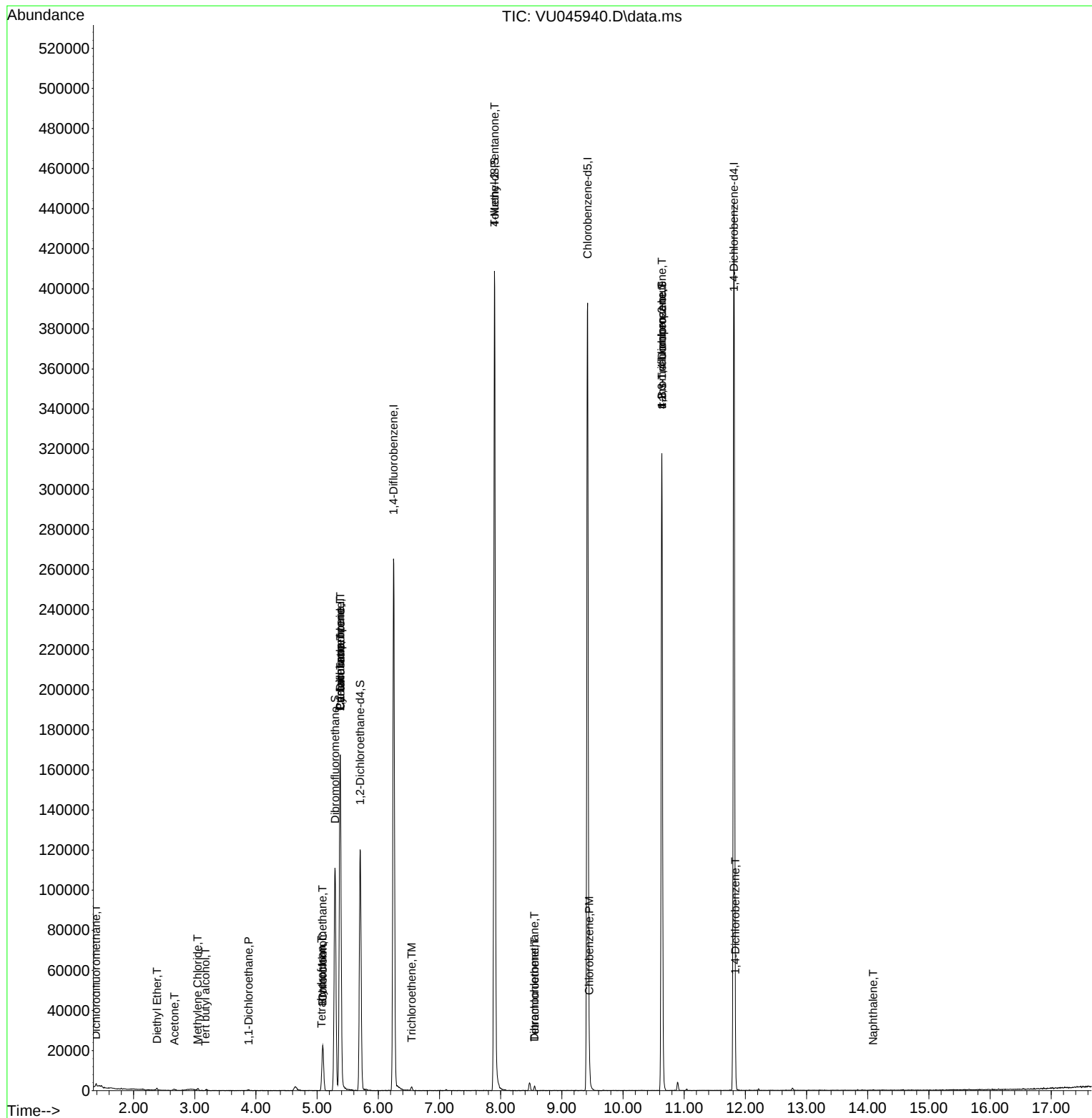
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.379  | 168   | 117436   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.250  | 114   | 213624   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 9.420  | 117   | 226364   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.812 | 152   | 113895   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.703  | 65    | 90037    | 51.194   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 102.380% |          |
| 35) Dibromofluoromethane      | 5.292  | 113   | 71284    | 49.980   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 99.960%  |          |
| 50) Toluene-d8                | 7.899  | 98    | 278612   | 52.533   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 105.060% |          |
| 62) 4-Bromofluorobenzene      | 10.636 | 95    | 108628   | 51.079   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 102.160% |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.385  | 85    | 517      | 0.340    | ug/l       | 93       |
| 8) Diethyl Ether              | 2.385  | 74    | 246      | 0.277    | ug/l #     | 48       |
| 11) Tert butyl alcohol        | 3.176  | 59    | 73       | 0.210    | ug/l #     | 72       |
| 16) Acetone                   | 2.668  | 43    | 1210     | 1.352    | ug/l       | 98       |
| 20) Methylene Chloride        | 3.044  | 84    | 403      | 0.259    | ug/l #     | 60       |
| 24) 1,1-Dichloroethane        | 3.880  | 63    | 704      | 0.261    | ug/l #     | 82       |
| 28) Bromochloromethane        | 5.086  | 49    | 1427     | 1.109    | ug/l #     | 16       |
| 29) Tetrahydrofuran           | 5.073  | 42    | 340      | 0.448    | ug/l #     | 46       |
| 30) Chloroform                | 5.092  | 83    | 19611    | 7.346    | ug/l       | 98       |
| 31) Cyclohexane               | 5.379  | 56    | 2483     | 0.968    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 5.375  | 75    | 9668     | 4.641    | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 5.379  | 117   | 12347    | 5.880    | ug/l #     | 16       |
| 44) Trichloroethene           | 6.546  | 130   | 627      | 0.425    | ug/l       | 82       |
| 51) 4-Methyl-2-Pentanone      | 7.899  | 43    | 892      | 0.369    | ug/l #     | 1        |
| 60) Dibromochloromethane      | 8.552  | 129   | 548      | 0.336    | ug/l #     | 11       |
| 64) Tetrachloroethene         | 8.555  | 164   | 514      | 0.396    | ug/l       | 84       |
| 65) Chlorobenzene             | 9.449  | 112   | 4346     | 0.977    | ug/l       | 100      |
| 76) 1,2,3-Trichloropropane    | 10.636 | 75    | 56729    | 16.424   | ug/l #     | 42       |
| 81) trans-1,4-Dichloro-2-b... | 10.636 | 75    | 56729    | 53.577   | ug/l #     | 12       |
| 88) 1,4-Dichlorobenzene       | 11.838 | 146   | 1627     | 0.441    | ug/l #     | 68       |
| 95) Naphthalene               | 14.089 | 128   | 280      | 1.059    | ug/l #     | 69       |

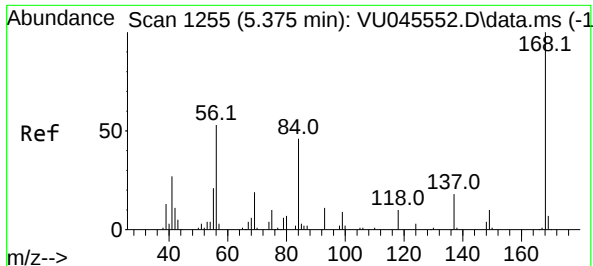
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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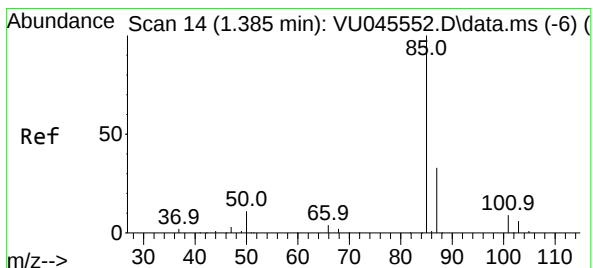
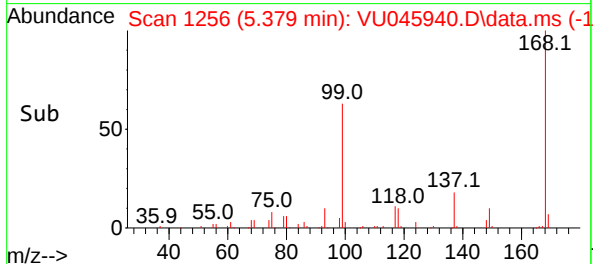
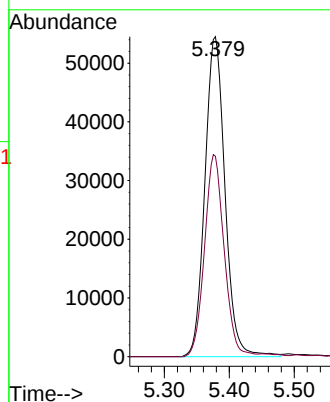
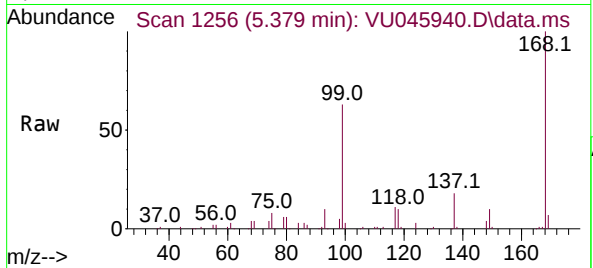




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.379 min Scan# 11  
Delta R.T. 0.004 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

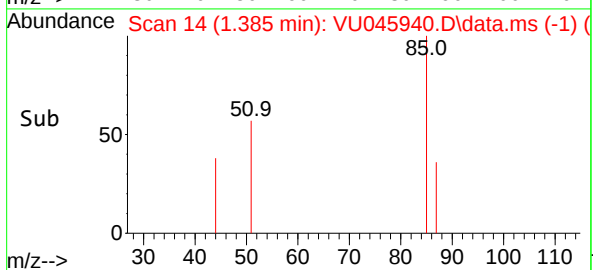
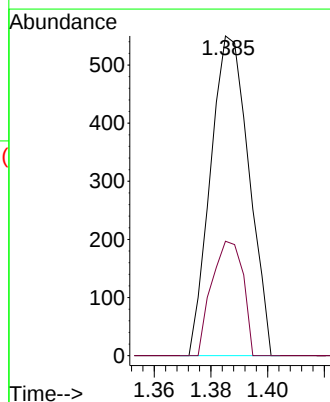
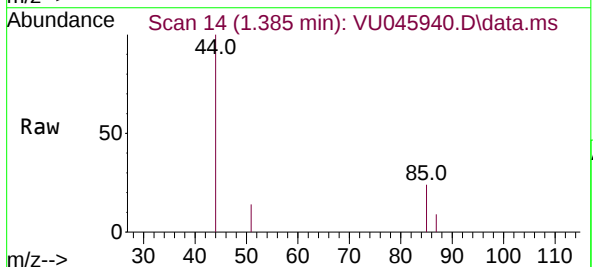
Instrument :  
MSVOA\_U  
ClientSampleId :

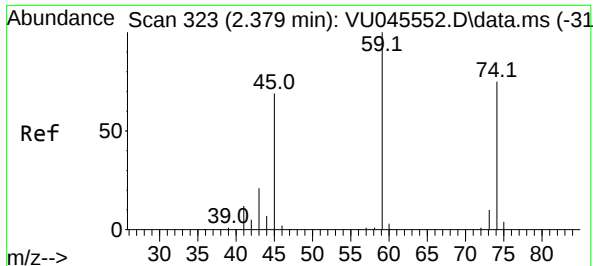
Tgt Ion:168 Resp: 117436  
Ion Ratio Lower Upper  
168 100  
99 62.6 51.0 76.6



#2  
Dichlorodifluoromethane  
Concen: 0.340 ug/l  
RT: 1.385 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

Tgt Ion: 85 Resp: 517  
Ion Ratio Lower Upper  
85 100  
87 35.8 15.9 47.7





#8

Diethyl Ether

Concen: 0.277 ug/l

RT: 2.385 min Scan# 31

Delta R.T. 0.006 min

Lab File: VU045940.D

Acq: 23 Nov 2021 02:08

Instrument :

MSVOA\_U

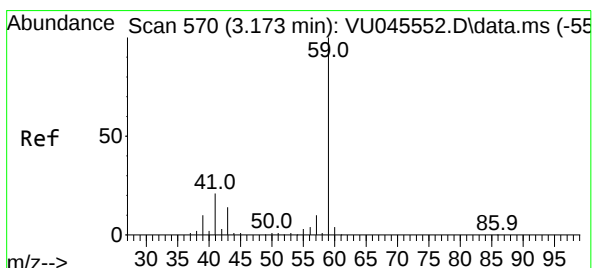
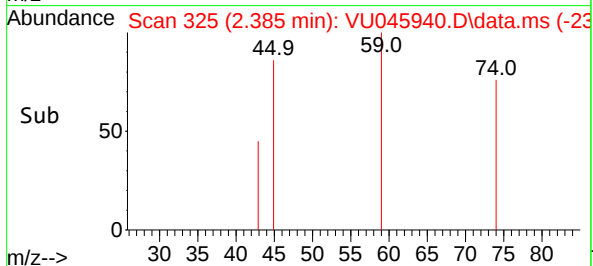
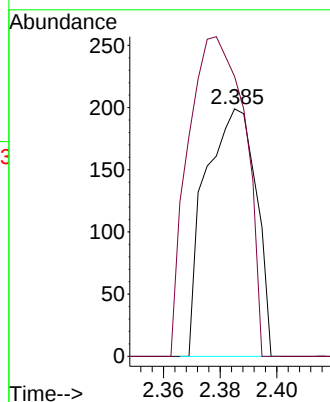
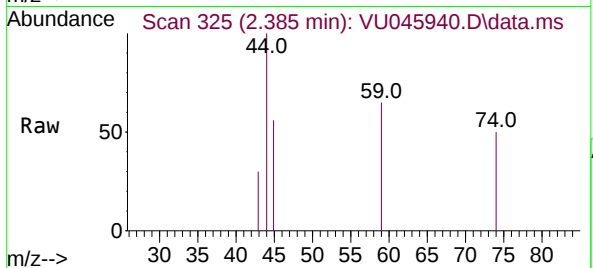
ClientSampleId :

Tgt Ion: 74 Resp: 246

Ion Ratio Lower Upper

74 100

45 144.7 47.3 141.8#



#11

Tert butyl alcohol

Concen: 0.210 ug/l

RT: 3.176 min Scan# 571

Delta R.T. 0.003 min

Lab File: VU045940.D

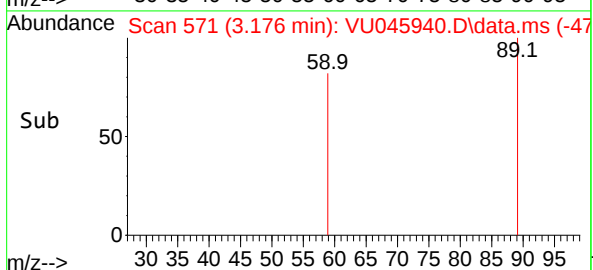
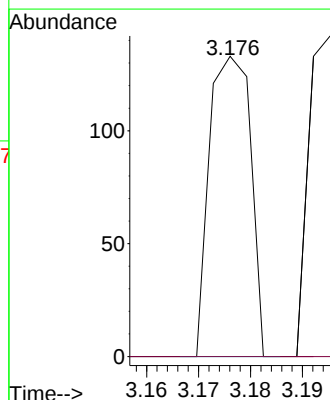
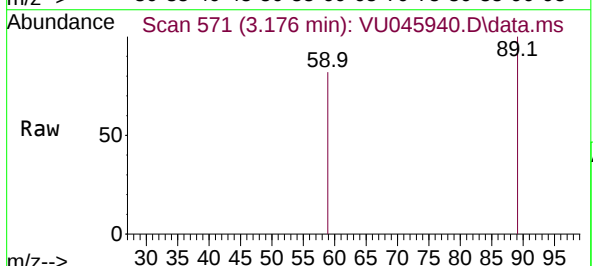
Acq: 23 Nov 2021 02:08

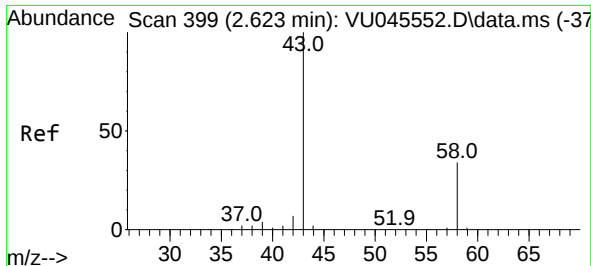
Tgt Ion: 59 Resp: 73

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#

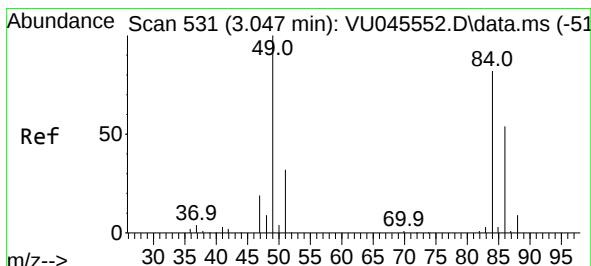
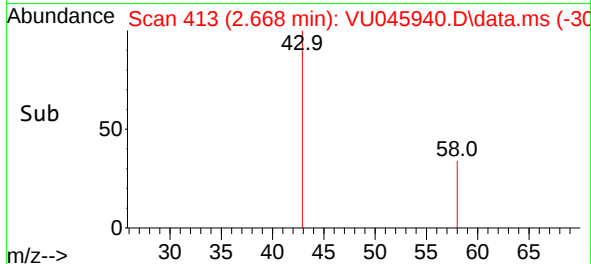
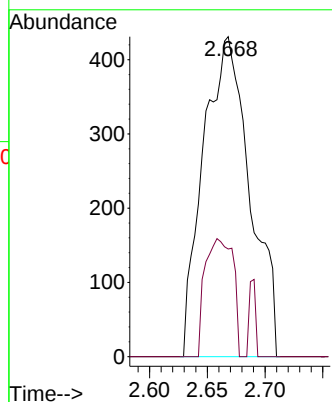
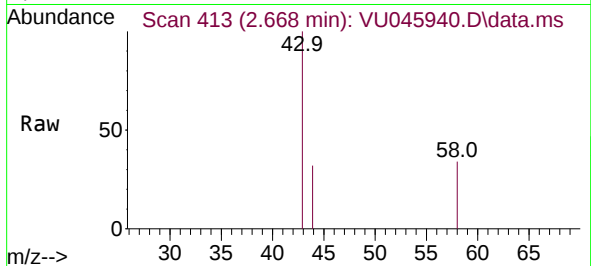




#16  
Acetone  
Concen: 1.352 ug/l  
RT: 2.668 min Scan# 413  
Delta R.T. 0.045 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

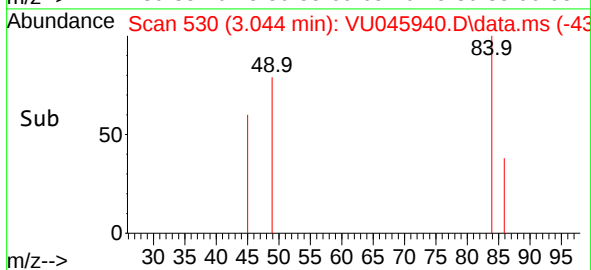
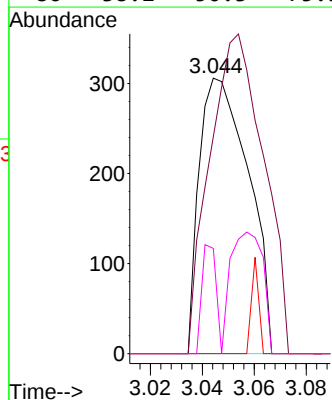
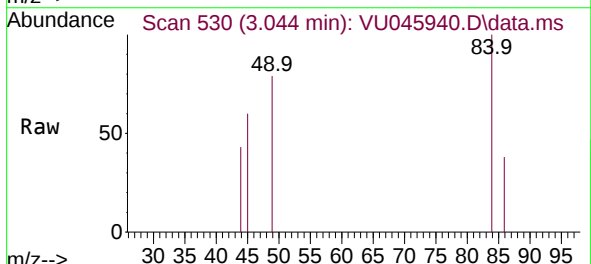
Instrument :  
MSVOA\_U  
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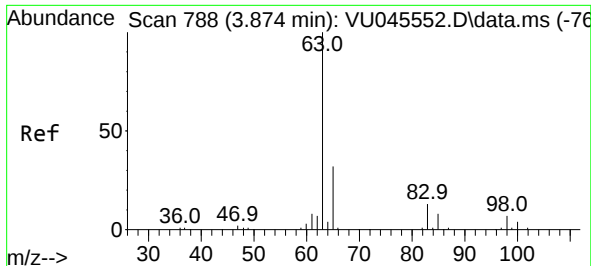
Tgt Ion: 43 Resp: 1210  
Ion Ratio Lower Upper  
43 100  
58 33.6 26.2 39.2



#20  
Methylene Chloride  
Concen: 0.259 ug/l  
RT: 3.044 min Scan# 530  
Delta R.T. -0.003 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

Tgt Ion: 84 Resp: 403  
Ion Ratio Lower Upper  
84 100  
49 78.8 96.4 144.6#  
51 0.0 30.5 45.7#  
86 38.2 50.3 75.5#

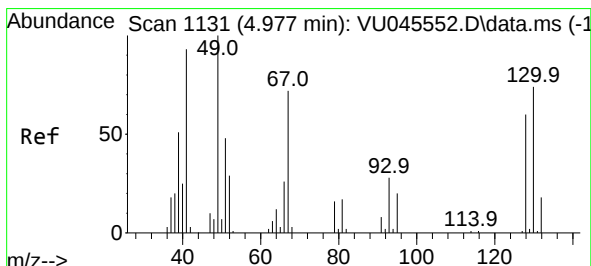
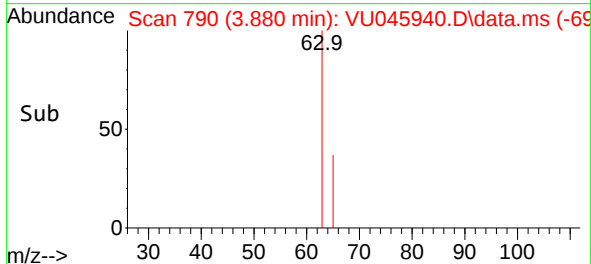
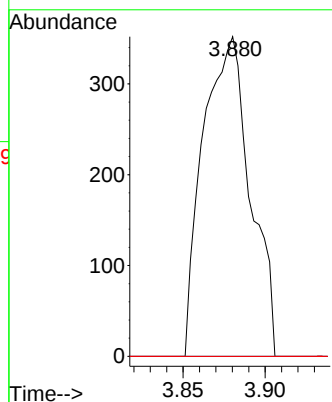
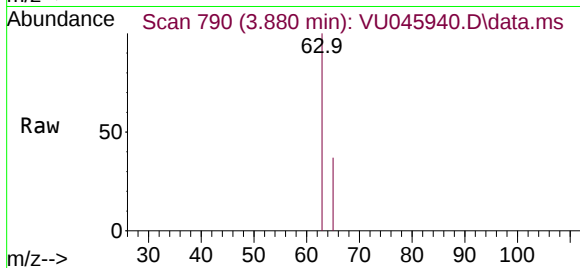




#24  
1,1-Dichloroethane  
Concen: 0.261 ug/l  
RT: 3.880 min Scan# 790  
Delta R.T. 0.006 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

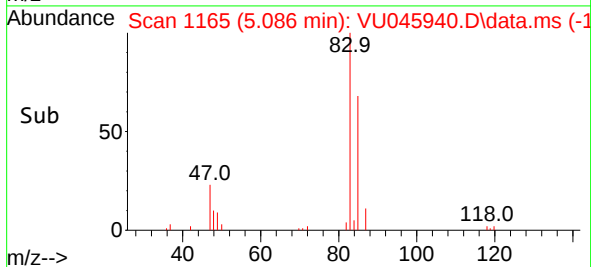
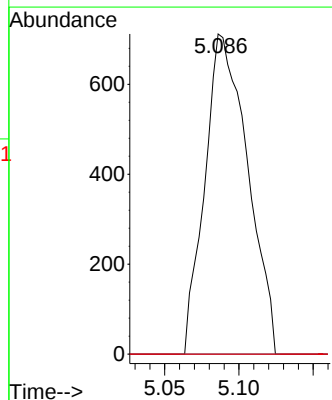
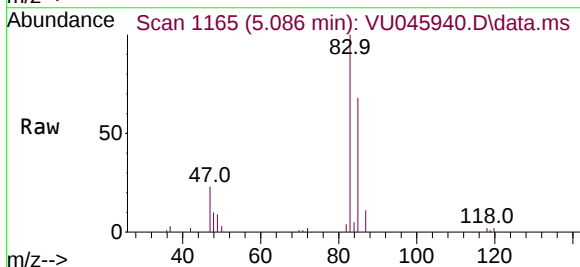
Instrument :  
MSVOA\_U  
ClientSampleId :

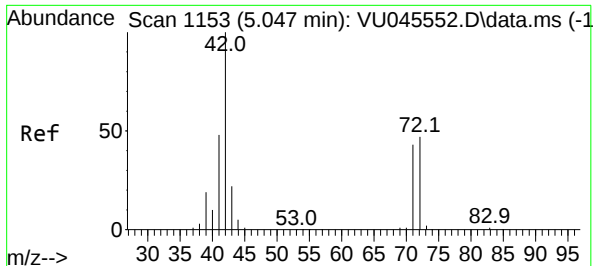
Tgt Ion: 63 Resp: 704  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.5 10.6#  
100 0.0 2.4 7.2#



#28  
Bromochloromethane  
Concen: 1.109 ug/l  
RT: 5.086 min Scan# 1165  
Delta R.T. 0.109 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

Tgt Ion: 49 Resp: 1427  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 3.4  
130 0.0 57.5 86.3#





#29

Tetrahydrofuran

Concen: 0.448 ug/l

RT: 5.073 min Scan# 1161

Delta R.T. 0.026 min

Lab File: VU045940.D

Acq: 23 Nov 2021 02:08

Instrument :

MSVOA\_U

ClientSampleId :

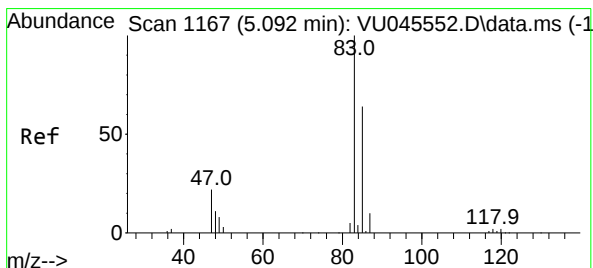
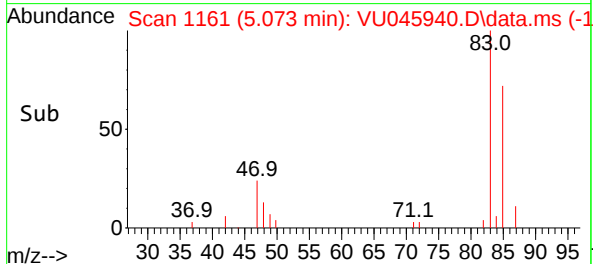
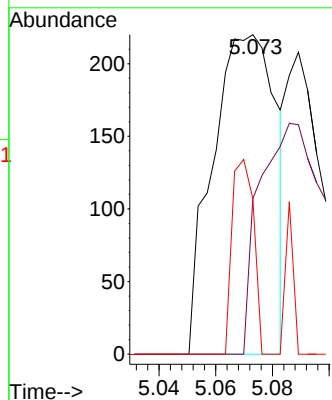
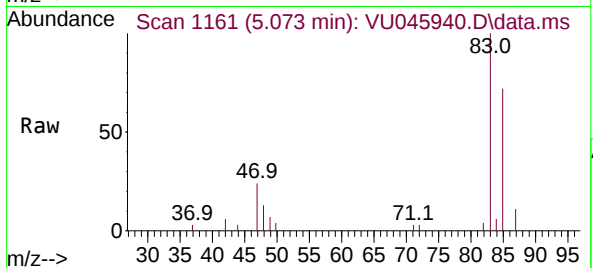
Tgt Ion: 42 Resp: 340

Ion Ratio Lower Upper

42 100

72 0.0 38.2 57.4#

71 20.9 35.4 53.2#



#30

Chloroform

Concen: 7.346 ug/l

RT: 5.092 min Scan# 1167

Delta R.T. 0.000 min

Lab File: VU045940.D

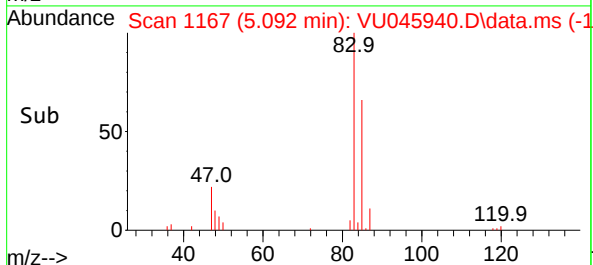
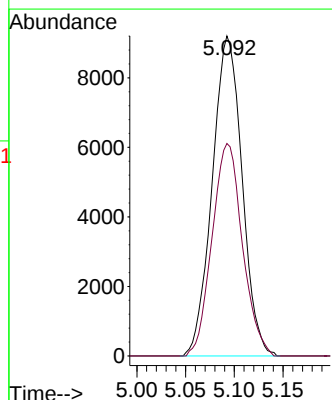
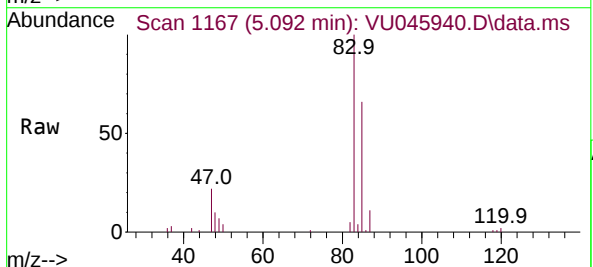
Acq: 23 Nov 2021 02:08

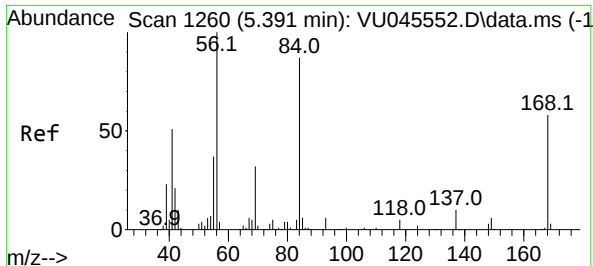
Tgt Ion: 83 Resp: 19611

Ion Ratio Lower Upper

83 100

85 66.4 52.0 78.0





#31

Cyclohexane

Concen: 0.968 ug/l

RT: 5.379 min Scan# 1256

Delta R.T. -0.013 min

Lab File: VU045940.D

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ClientSampleId :

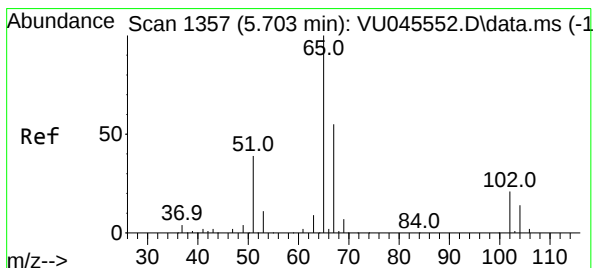
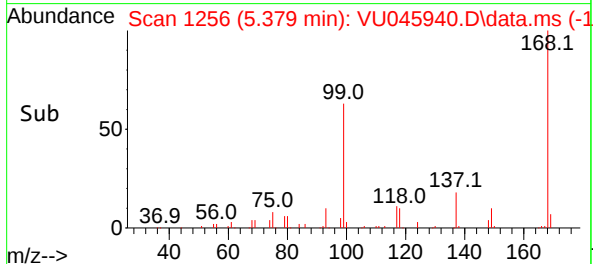
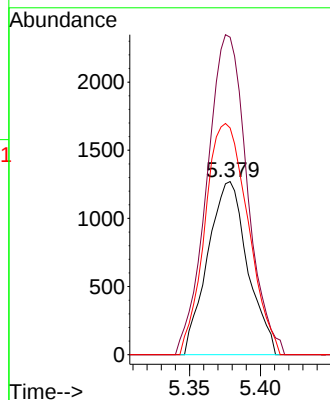
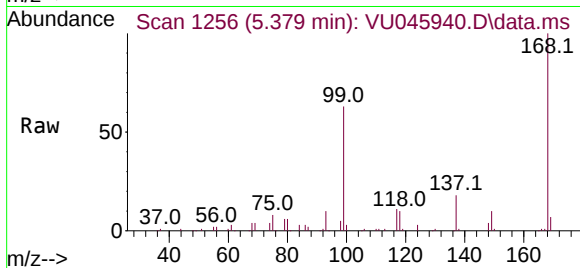
Tgt Ion: 56 Resp: 2483

Ion Ratio Lower Upper

56 100

69 174.8 26.4 39.6#

84 130.9 68.4 102.6#



#33

1,2-Dichloroethane-d4

Concen: 51.194 ug/l

RT: 5.703 min Scan# 1357

Delta R.T. 0.000 min

Lab File: VU045940.D

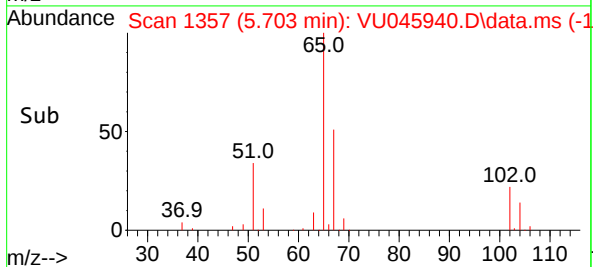
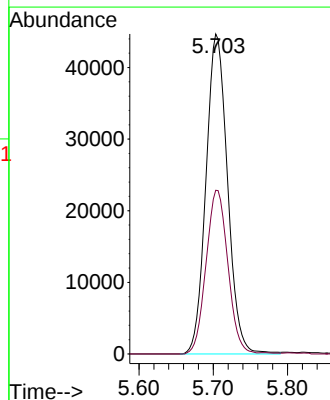
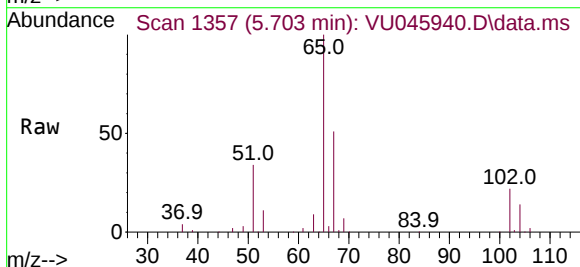
Acq: 23 Nov 2021 02:08

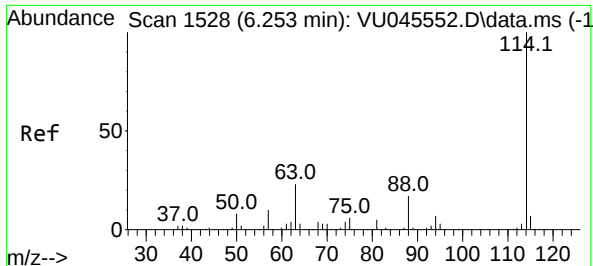
Tgt Ion: 65 Resp: 90037

Ion Ratio Lower Upper

65 100

67 51.8 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU045940.D

Acq: 23 Nov 2021 02:08

Instrument :

MSVOA\_U

ClientSampleId :

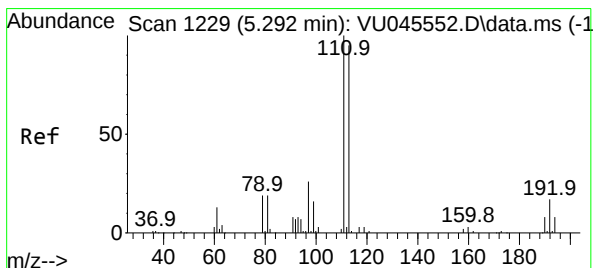
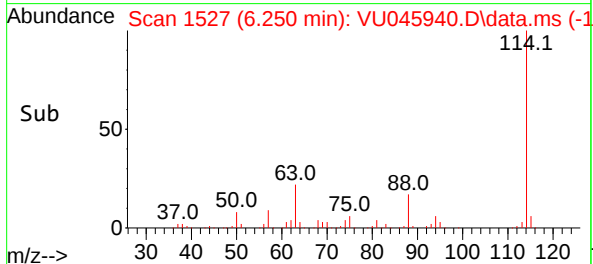
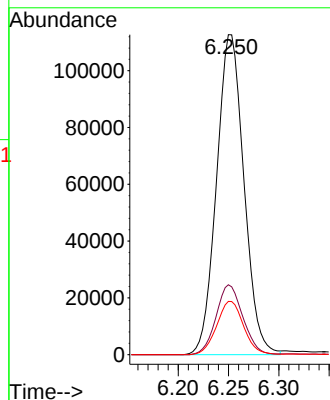
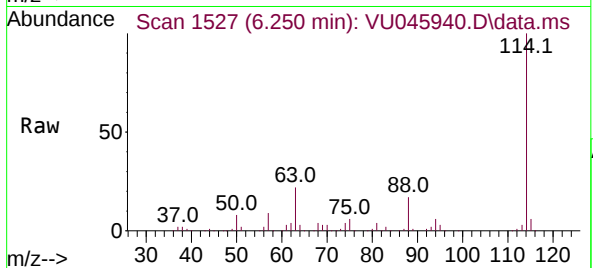
Tgt Ion:114 Resp: 213624

Ion Ratio Lower Upper

114 100

63 21.9 0.0 45.6

88 16.6 0.0 33.8



#35

Dibromofluoromethane

Concen: 49.980 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. 0.000 min

Lab File: VU045940.D

Acq: 23 Nov 2021 02:08

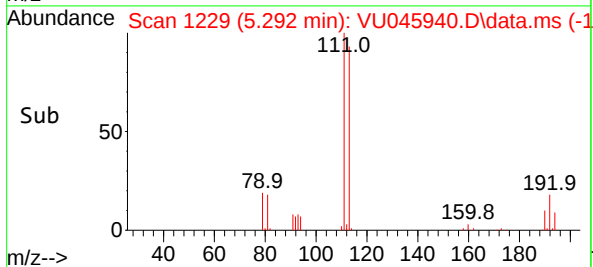
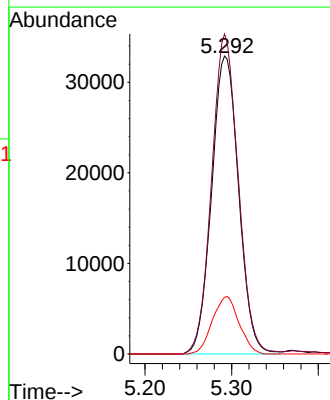
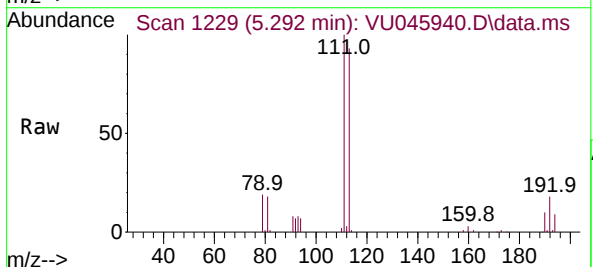
Tgt Ion:113 Resp: 71284

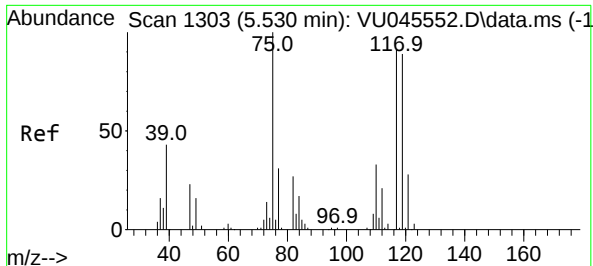
Ion Ratio Lower Upper

113 100

111 105.5 82.8 124.2

192 19.0 14.8 22.2





#36

1,1-Dichloropropene

Concen: 4.641 ug/l

RT: 5.375 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU045940.D

Acq: 23 Nov 2021 02:08

Instrument :

MSVOA\_U

ClientSampleId :

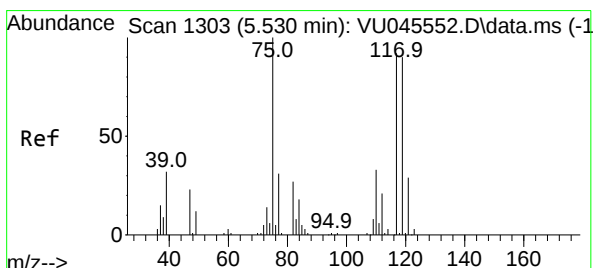
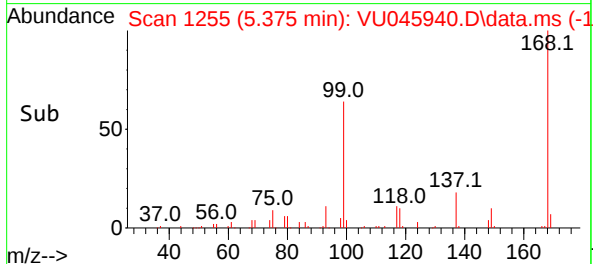
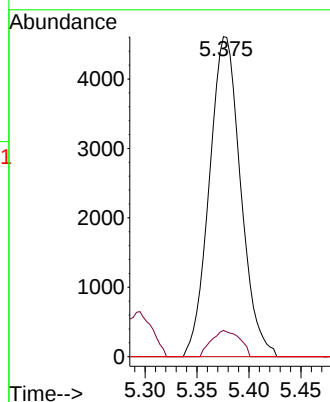
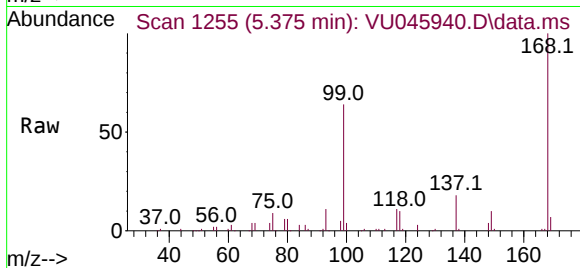
Tgt Ion: 75 Resp: 9668

Ion Ratio Lower Upper

75 100

110 7.4 16.7 50.0#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.880 ug/l

RT: 5.379 min Scan# 1256

Delta R.T. -0.151 min

Lab File: VU045940.D

Acq: 23 Nov 2021 02:08

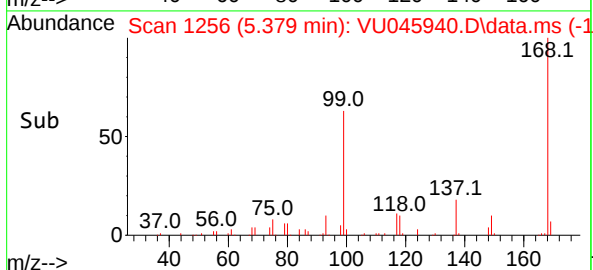
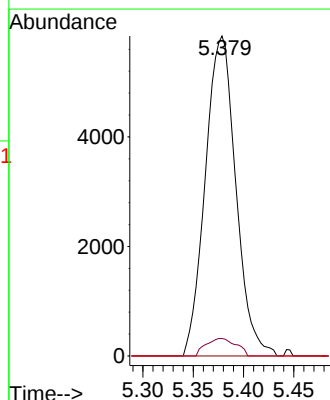
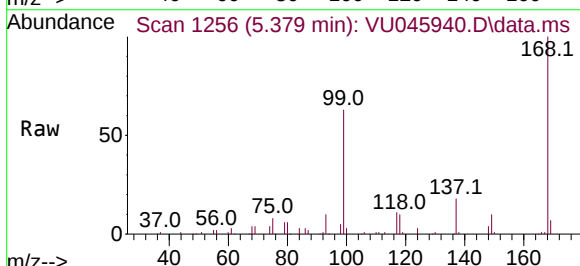
Tgt Ion: 117 Resp: 12347

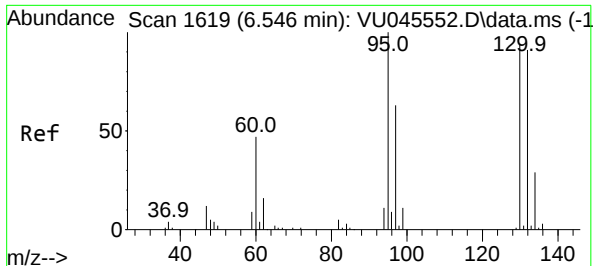
Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

121 0.0 24.8 37.2#

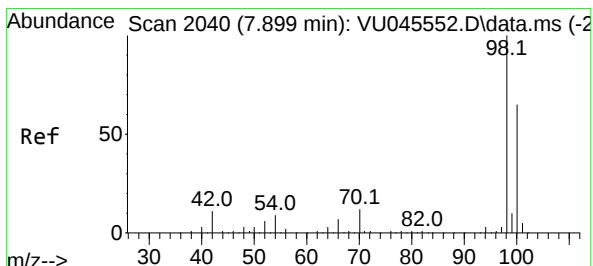
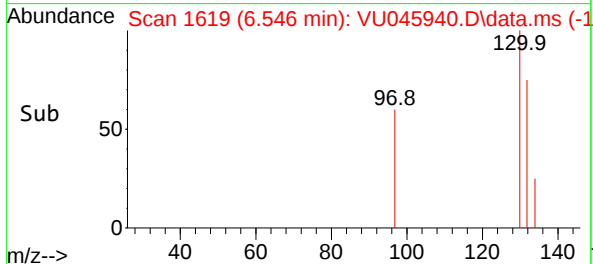
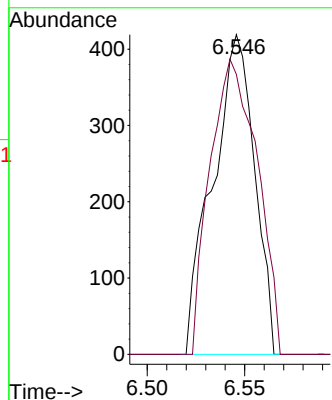
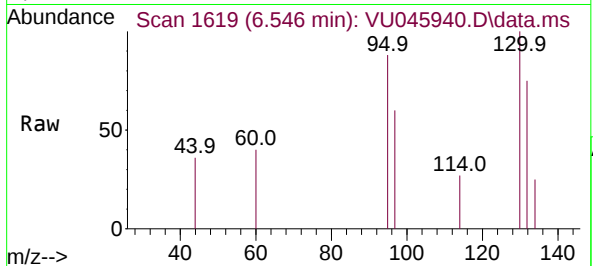




#44  
Trichloroethene  
Concen: 0.425 ug/l  
RT: 6.546 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

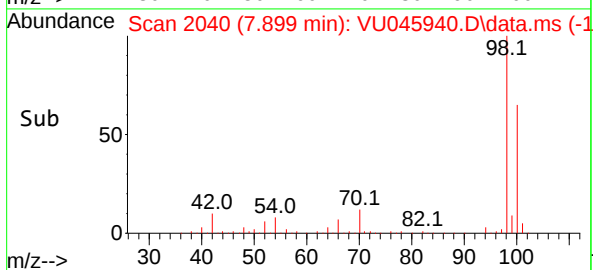
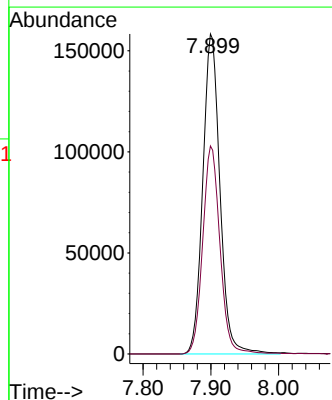
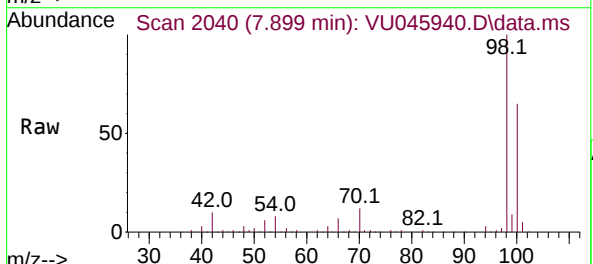
Instrument :  
MSVOA\_U  
ClientSampleId :

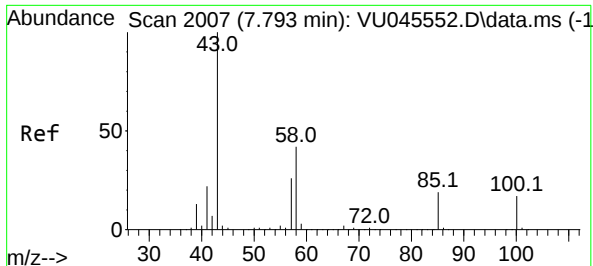
Tgt Ion:130 Resp: 627  
Ion Ratio Lower Upper  
130 100  
95 87.6 0.0 211.4



#50  
Toluene-d8  
Concen: 52.533 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. 0.000 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

Tgt Ion: 98 Resp: 278612  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.5 78.7

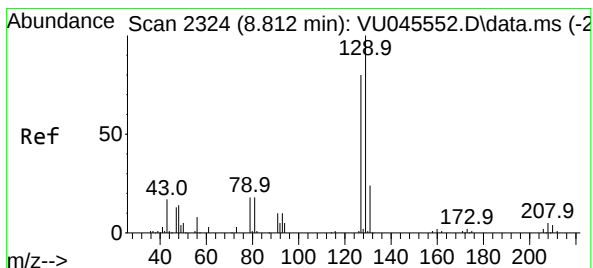
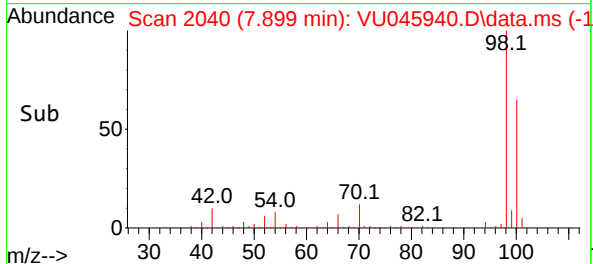
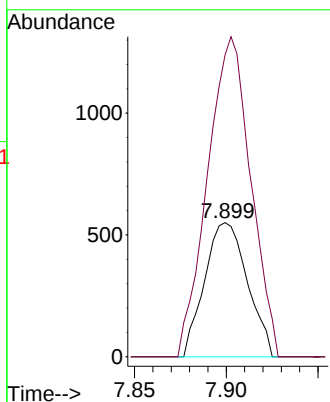
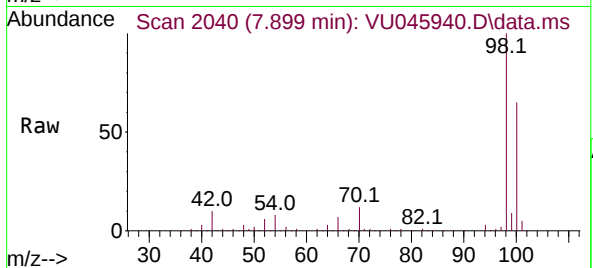




#51  
4-Methyl-2-Pentanone  
Concen: 0.369 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. 0.106 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

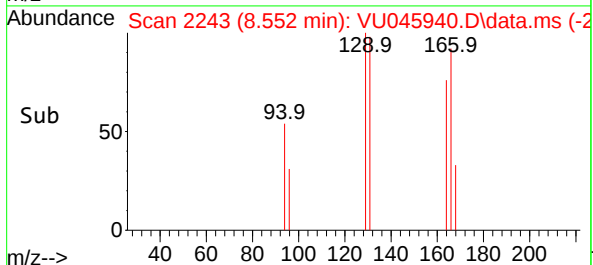
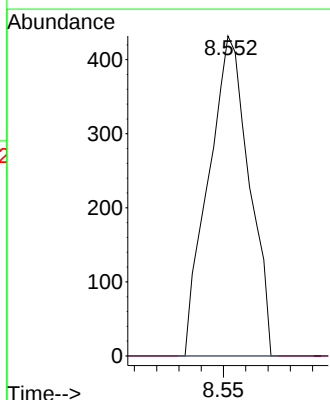
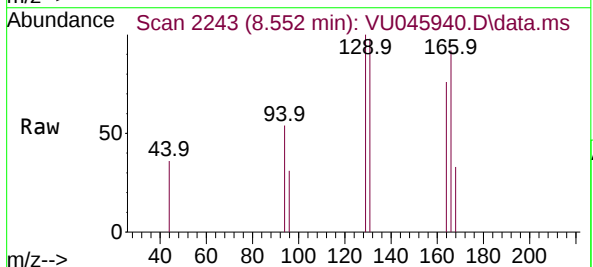
Instrument :  
MSVOA\_U  
ClientSampleId :

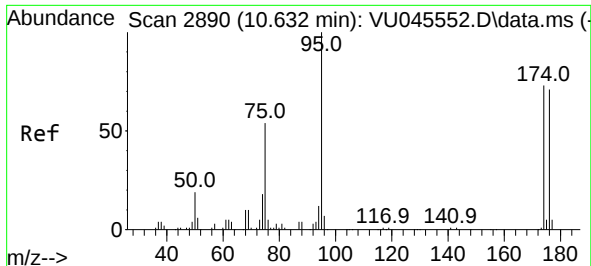
Tgt Ion: 43 Resp: 892  
Ion Ratio Lower Upper  
43 100  
58 240.7 33.8 50.8#



#60  
Dibromochloromethane  
Concen: 0.336 ug/l  
RT: 8.552 min Scan# 2243  
Delta R.T. -0.260 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

Tgt Ion: 129 Resp: 548  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.3#

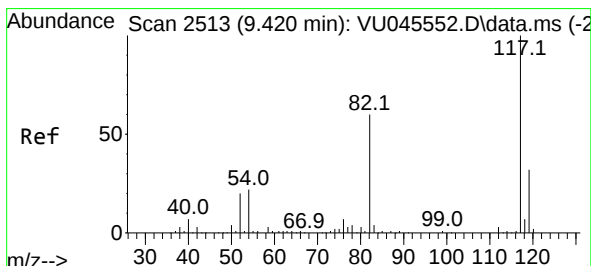
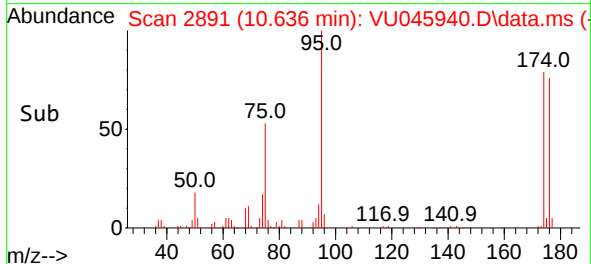
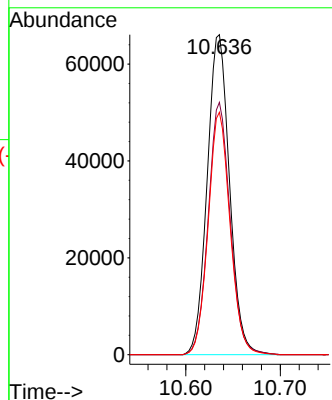
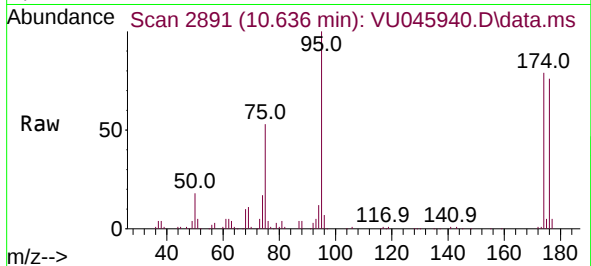




#62  
4-Bromofluorobenzene  
Concen: 51.079 ug/l  
RT: 10.636 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

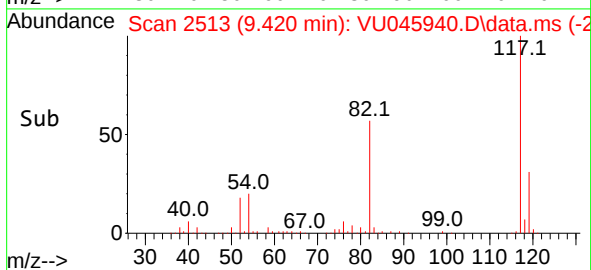
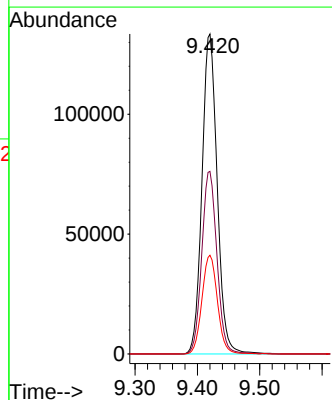
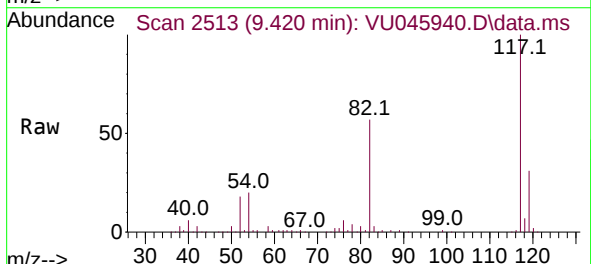
Instrument :  
MSVOA\_U  
ClientSampleId :

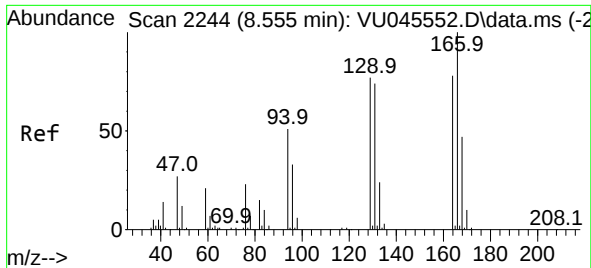
Tgt Ion: 95 Resp: 108628  
Ion Ratio Lower Upper  
95 100  
174 77.6 0.0 141.8  
176 74.2 0.0 138.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.420 min Scan# 2513  
Delta R.T. 0.000 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

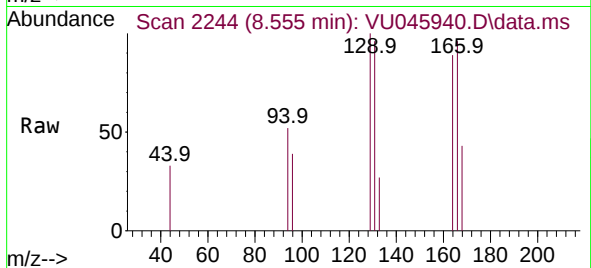
Tgt Ion: 117 Resp: 226364  
Ion Ratio Lower Upper  
117 100  
82 57.1 47.8 71.8  
119 30.8 25.8 38.8



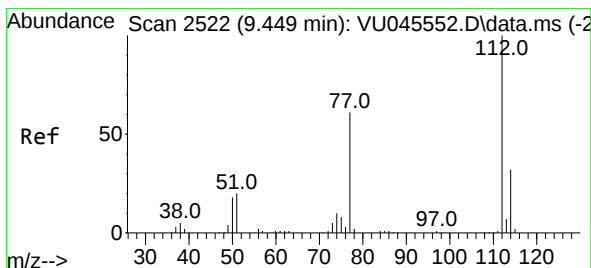
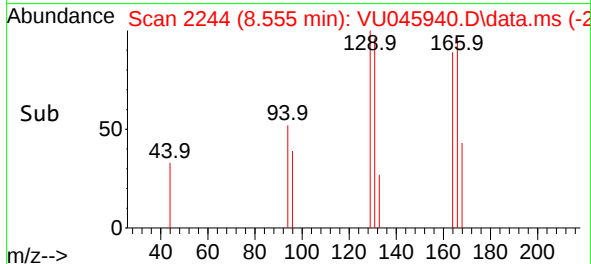
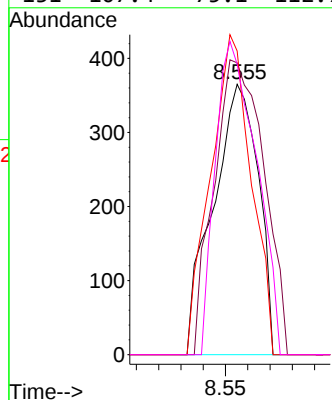


#64  
Tetrachloroethene  
Concen: 0.396 ug/l  
RT: 8.555 min Scan# 2114  
Delta R.T. 0.000 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

Instrument :  
MSVOA\_U  
ClientSampleId :

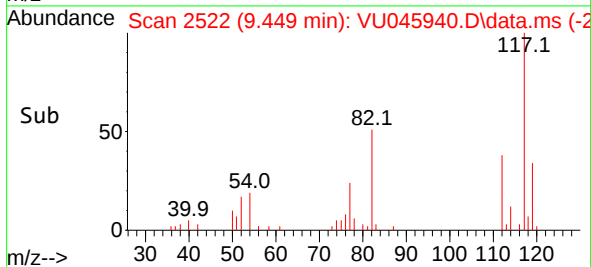
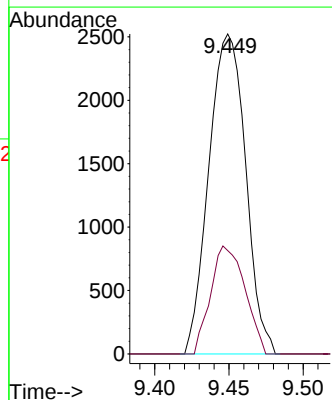
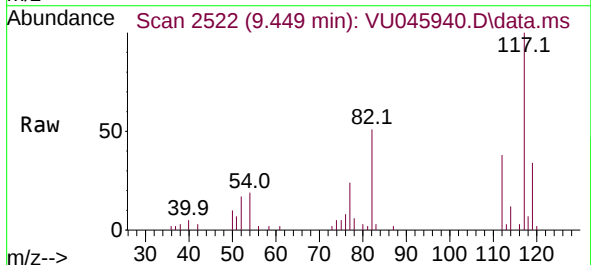


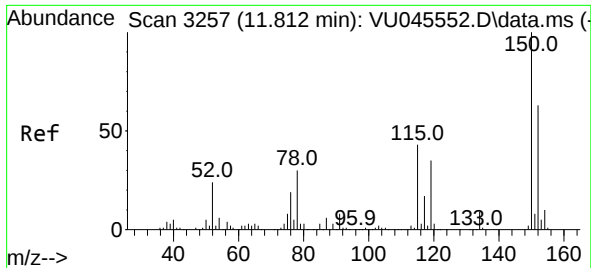
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 514   |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 166 | 107.9   | 102.2 | 153.4 |
| 129 | 112.3   | 78.2  | 117.4 |
| 131 | 107.4   | 75.1  | 112.7 |



#65  
Chlorobenzene  
Concen: 0.977 ug/l  
RT: 9.449 min Scan# 2522  
Delta R.T. 0.000 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

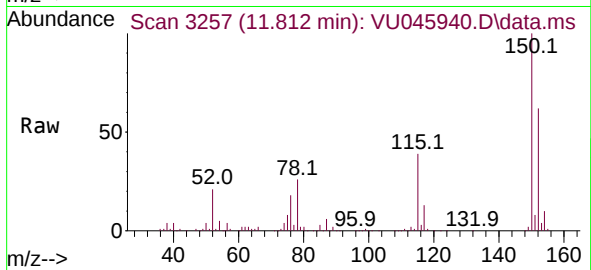
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:112 | Resp: | 4346  |       |
| Ion         | Ratio | Lower | Upper |
| 112         | 100   |       |       |
| 114         | 32.3  | 25.7  | 38.5  |



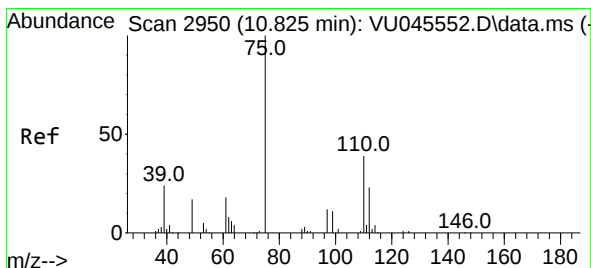
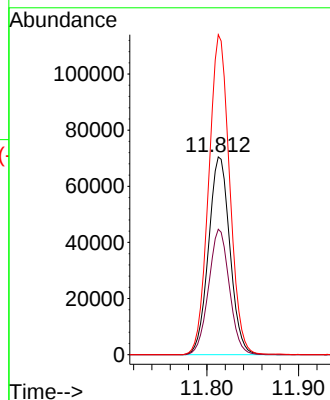
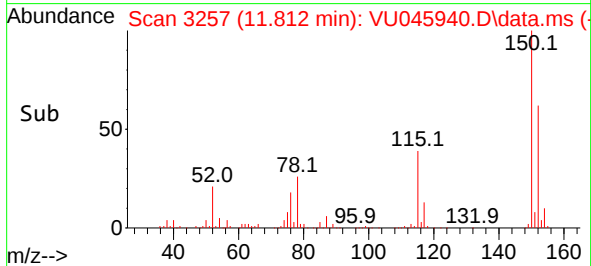


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 11.812 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: VU045940.D  
 Acq: 23 Nov 2021 02:08

Instrument :  
 MSVOA\_U  
 ClientSampleId :

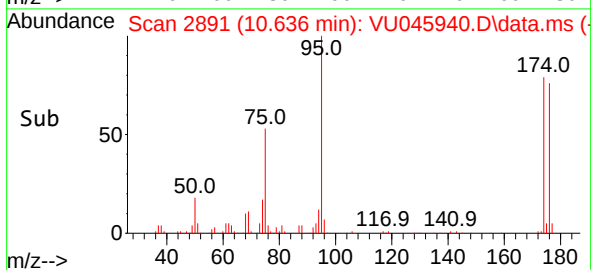
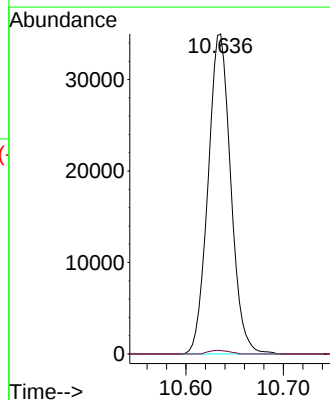
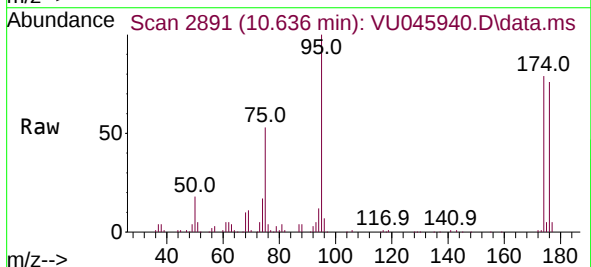


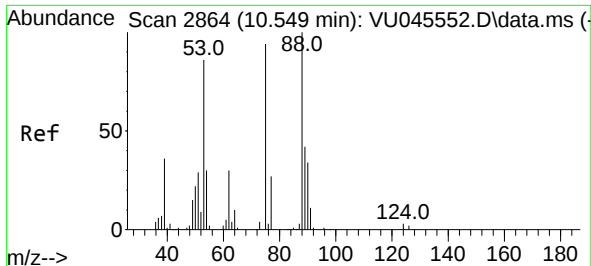
Tgt Ion:152 Resp: 113895  
 Ion Ratio Lower Upper  
 152 100  
 115 61.6 42.7 128.1  
 150 158.4 0.0 346.8



#76  
 1,2,3-Trichloropropane  
 Concen: 16.424 ug/l  
 RT: 10.636 min Scan# 2891  
 Delta R.T. -0.190 min  
 Lab File: VU045940.D  
 Acq: 23 Nov 2021 02:08

Tgt Ion: 75 Resp: 56729  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 17.1 51.3#

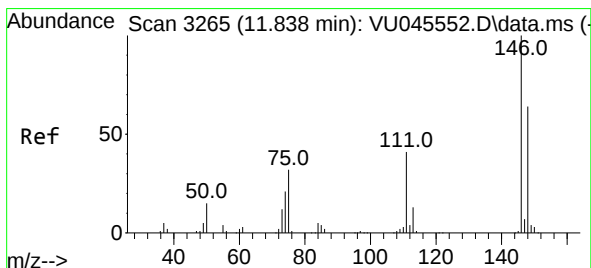
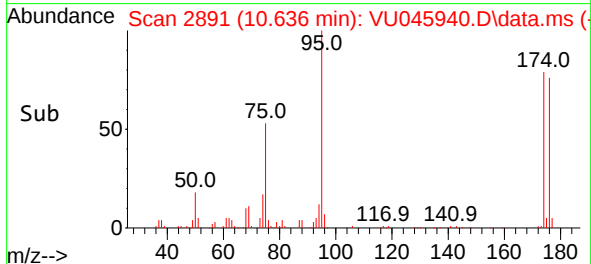
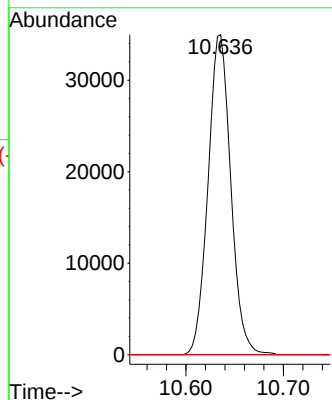
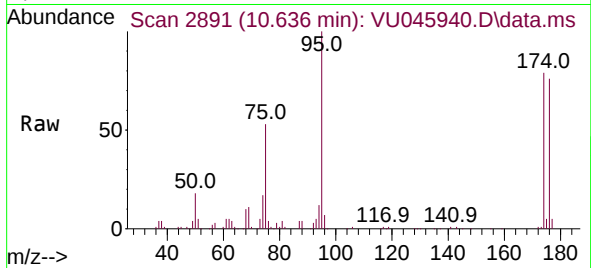




#81  
trans-1,4-Dichloro-2-butene  
Concen: 53.577 ug/l  
RT: 10.636 min Scan# 2864  
Delta R.T. 0.087 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

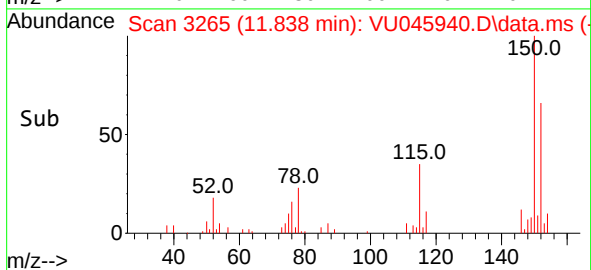
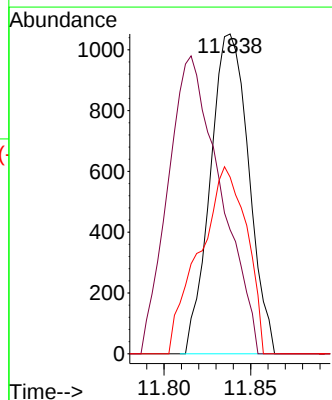
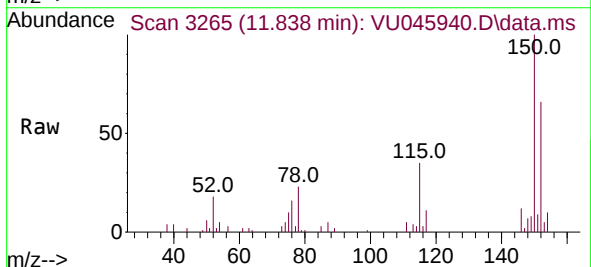
Instrument :  
MSVOA\_U  
ClientSampleId :

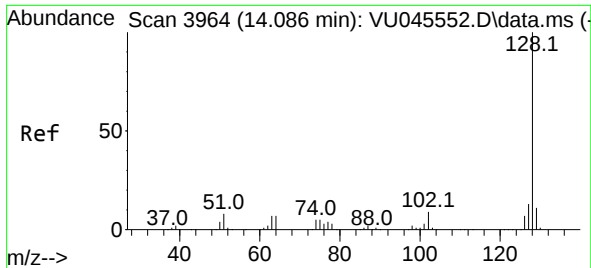
Tgt Ion: 75 Resp: 56729  
Ion Ratio Lower Upper  
75 100  
53 0.0 76.2 114.4#  
89 0.0 34.0 51.0#



#88  
1,4-Dichlorobenzene  
Concen: 0.441 ug/l  
RT: 11.838 min Scan# 3265  
Delta R.T. 0.000 min  
Lab File: VU045940.D  
Acq: 23 Nov 2021 02:08

Tgt Ion:146 Resp: 1627  
Ion Ratio Lower Upper  
146 100  
111 0.0 20.6 61.9#  
148 71.5 31.9 95.7





#95

Naphthalene

Concen: 1.059 ug/l

RT: 14.089 min Scan# 3965

Delta R.T. 0.003 min

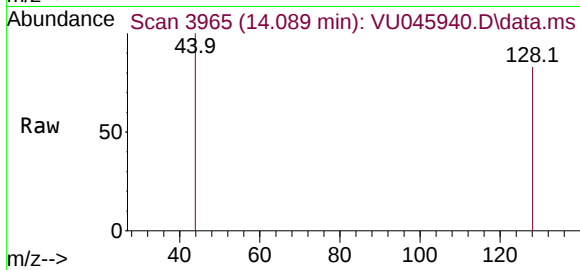
Lab File: VU045940.D

Acq: 23 Nov 2021 02:08

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:128 Resp: 280

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 13.0#

