

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY012225\  
 Data File : VY020894.D  
 Acq On : 22 Jan 2025 11:27  
 Operator : SY/MD  
 Sample : Q1141-02  
 Misc : 5.01g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jan 23 00:44:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010625S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 00:38:42 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.731  | 168  | 440191   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.640  | 114  | 670720   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.438 | 117  | 523054   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.365 | 152  | 214524   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.085  | 65    | 164326   | 43.920   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 87.840% |
| 35) Dibromofluoromethane    | 7.664  | 113   | 184197   | 43.836   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 87.680% |
| 50) Toluene-d8              | 10.127 | 98    | 698835   | 47.708   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 95.420% |
| 62) 4-Bromofluorobenzene    | 12.426 | 95    | 201670   | 37.282   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 29 - 146 | Recovery | =    | 74.560% |

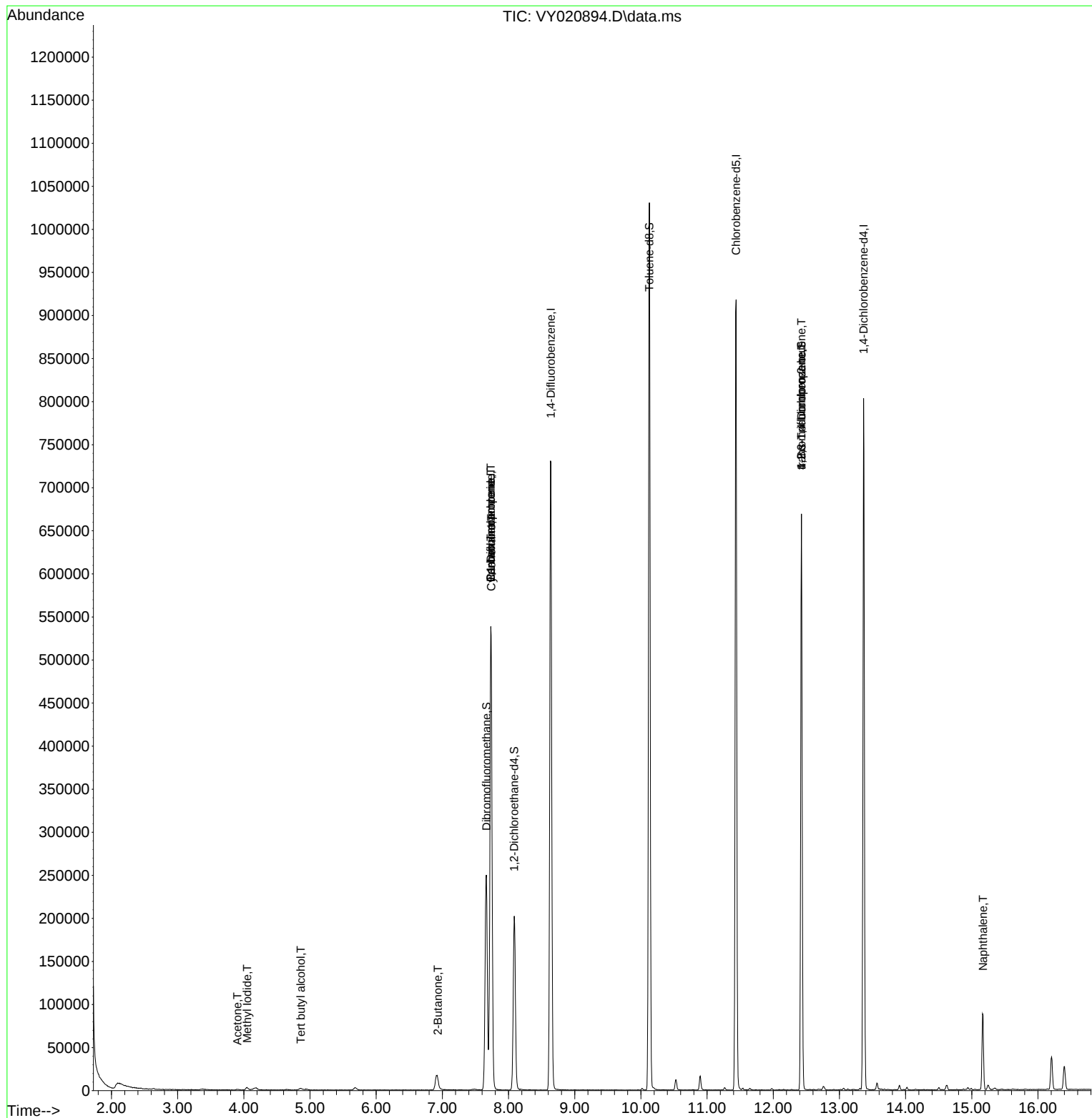
| Target Compounds              |        |     |        |         |        | Qvalue |
|-------------------------------|--------|-----|--------|---------|--------|--------|
| 10) Methyl Iodide             | 4.049  | 142 | 4694   | 1.118   | ug/l   | 96     |
| 11) Tert butyl alcohol        | 4.860  | 59  | 2218   | 7.845   | ug/l # | 73     |
| 16) Acetone                   | 3.903  | 43  | 1167   | 2.193   | ug/l   | 93     |
| 25) 2-Butanone                | 6.933  | 43  | 1046   | 1.197   | ug/l # | 45     |
| 31) Cyclohexane               | 7.738  | 56  | 7517   | 1.381   | ug/l # | 1      |
| 36) 1,1-Dichloropropene       | 7.731  | 75  | 30582  | 5.706   | ug/l # | 49     |
| 38) Carbon Tetrachloride      | 7.731  | 117 | 42511  | 5.698   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane    | 12.426 | 75  | 101236 | 53.934  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.426 | 75  | 101236 | 113.721 | ug/l # | 14     |
| 95) Naphthalene               | 15.169 | 128 | 74048  | 11.728  | ug/l   | 99     |

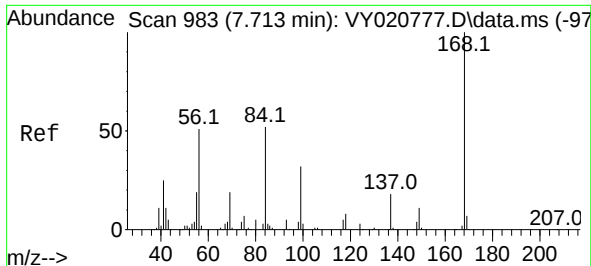
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSV0A\_Y\Data\VY012225\  
Data File : VY020894.D  
Acq On : 22 Jan 2025 11:27  
Operator : SY/MD  
Sample : Q1141-02  
Misc : 5.01g/5.0mL/MSV0A\_Y/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSV0A\_Y  
ClientSampleId :

Quant Time: Jan 23 00:44:23 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSV0A\_Y\methods\82Y010625S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 23 00:38:42 2025  
Response via : Initial Calibration

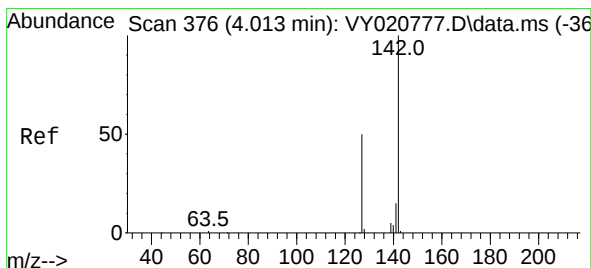
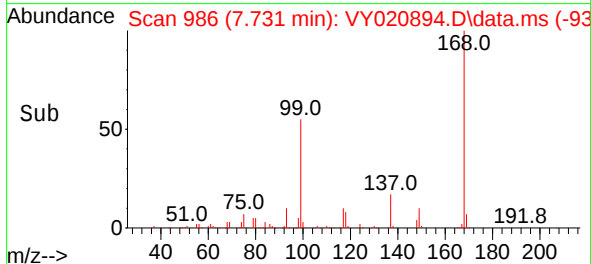
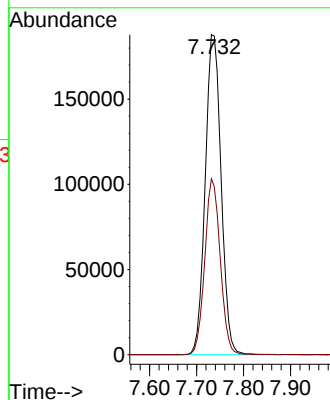
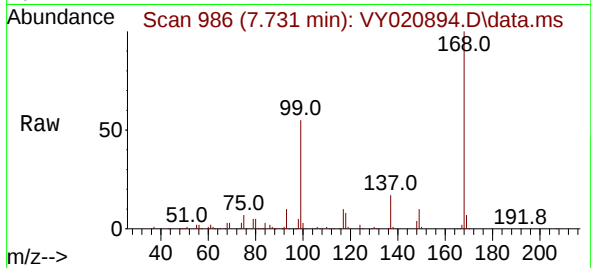




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.731 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY020894.D  
Acq: 22 Jan 2025 11:27

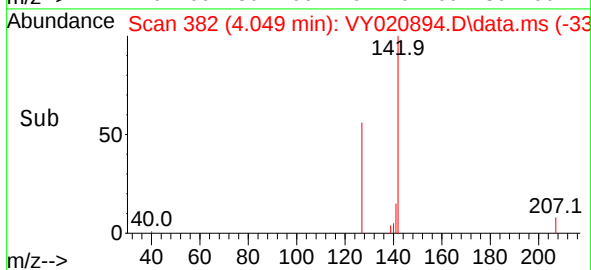
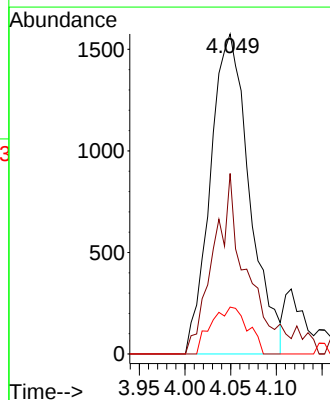
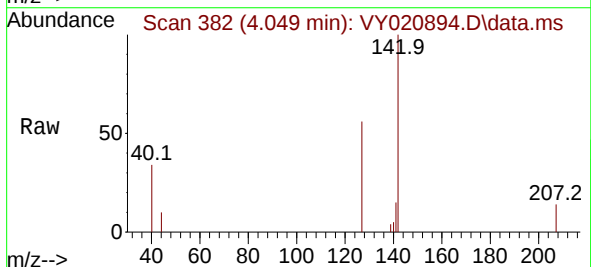
Instrument :  
MSVOA\_Y  
ClientSampleId :

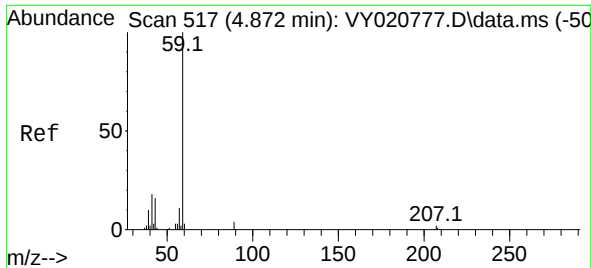
Tgt Ion:168 Resp: 440191  
Ion Ratio Lower Upper  
168 100  
99 55.0 44.3 66.5



#10  
Methyl Iodide  
Concen: 1.118 ug/l  
RT: 4.049 min Scan# 382  
Delta R.T. 0.006 min  
Lab File: VY020894.D  
Acq: 22 Jan 2025 11:27

Tgt Ion:142 Resp: 4694  
Ion Ratio Lower Upper  
142 100  
127 48.2 41.0 61.6  
141 13.7 11.6 17.4

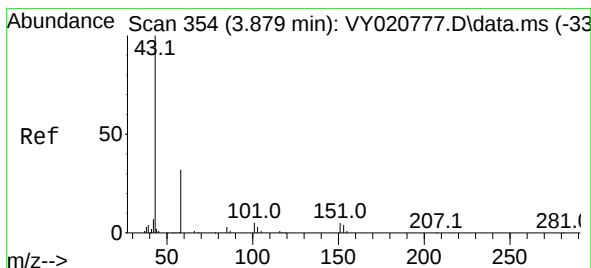
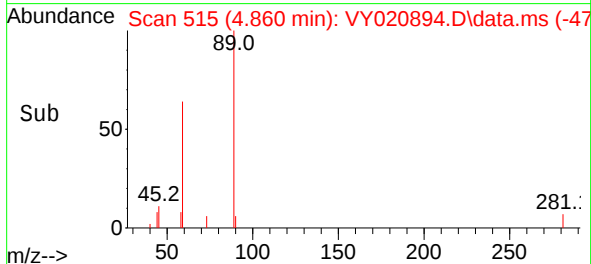
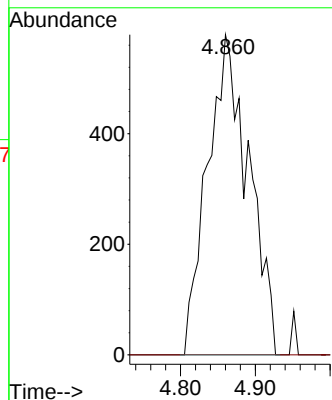
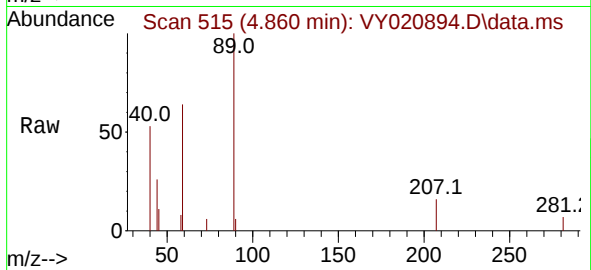




#11  
Tert butyl alcohol  
Concen: 7.845 ug/l  
RT: 4.860 min Scan# 517  
Delta R.T. -0.067 min  
Lab File: VY020894.D  
Acq: 22 Jan 2025 11:27

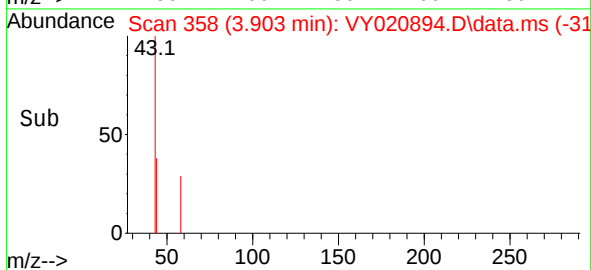
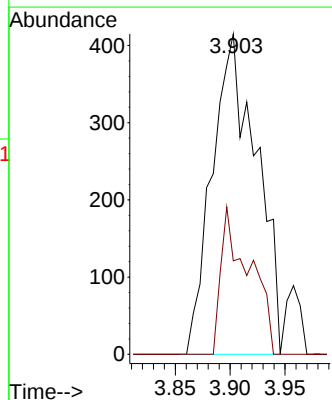
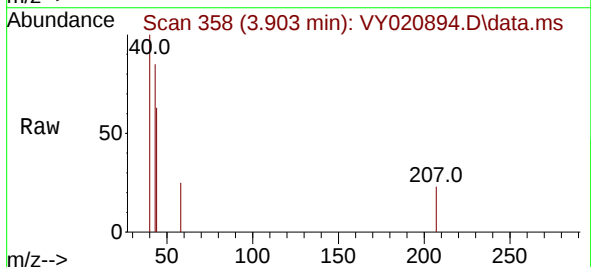
Instrument :  
MSVOA\_Y  
ClientSampleId :

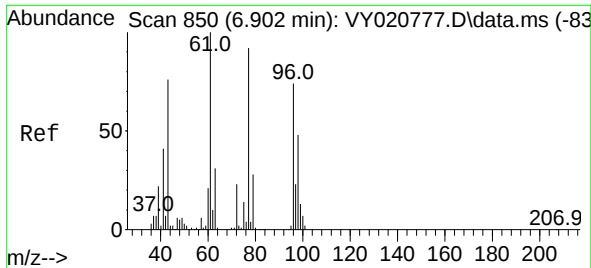
Tgt Ion: 59 Resp: 2218  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#



#16  
Acetone  
Concen: 2.193 ug/l  
RT: 3.903 min Scan# 358  
Delta R.T. -0.012 min  
Lab File: VY020894.D  
Acq: 22 Jan 2025 11:27

Tgt Ion: 43 Resp: 1167  
Ion Ratio Lower Upper  
43 100  
58 29.2 26.7 40.1





#25

2-Butanone

Concen: 1.197 ug/l

RT: 6.933 min Scan# 850

Delta R.T. 0.000 min

Lab File: VY020894.D

Acq: 22 Jan 2025 11:27

Instrument :

MSVOA\_Y

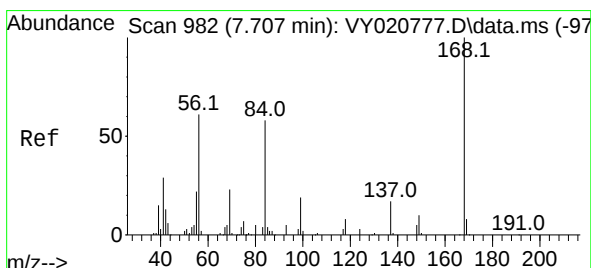
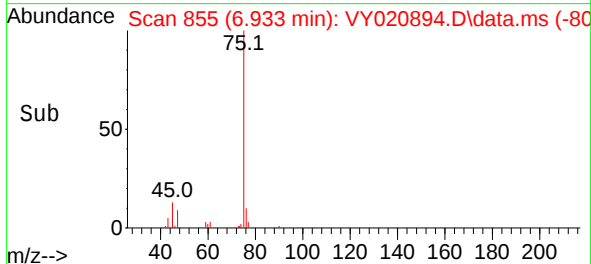
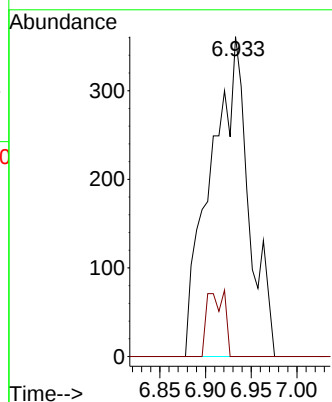
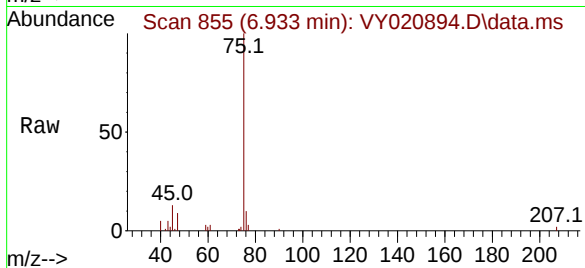
ClientSampleId :

Tgt Ion: 43 Resp: 1046

Ion Ratio Lower Upper

43 100

72 0.0 24.0 36.0#



#31

Cyclohexane

Concen: 1.381 ug/l

RT: 7.738 min Scan# 987

Delta R.T. 0.000 min

Lab File: VY020894.D

Acq: 22 Jan 2025 11:27

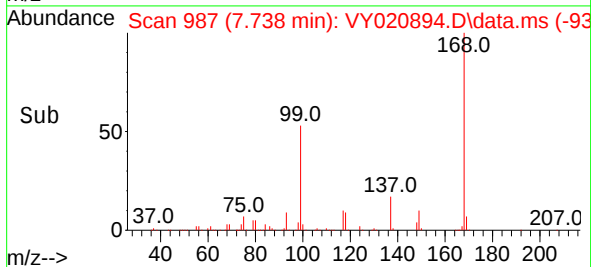
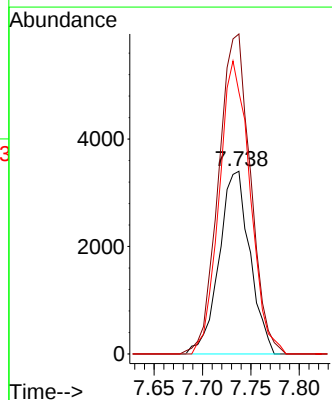
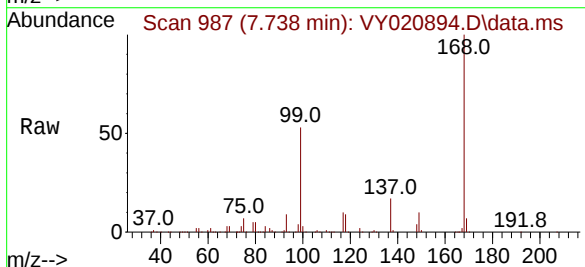
Tgt Ion: 56 Resp: 7517

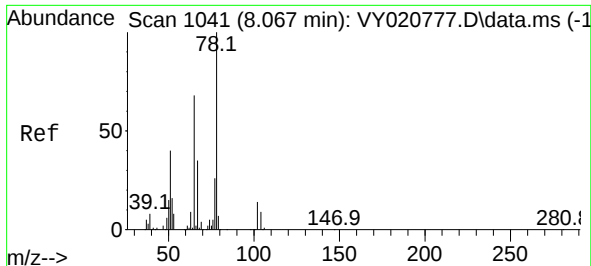
Ion Ratio Lower Upper

56 100

69 175.2 30.5 45.7#

84 143.3 76.6 115.0#

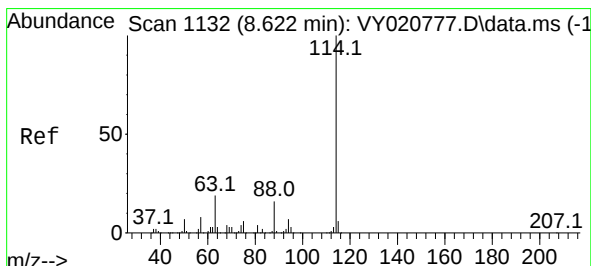
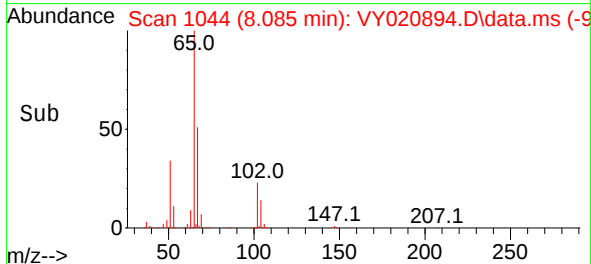
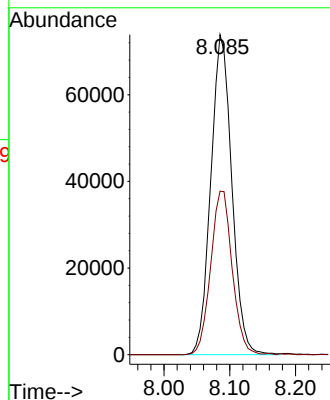
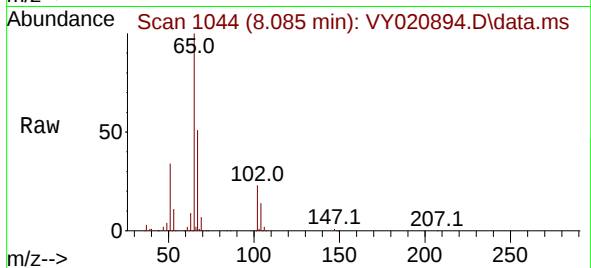




#33  
1,2-Dichloroethane-d4  
Concen: 43.920 ug/l  
RT: 8.085 min Scan# 1104  
Delta R.T. -0.006 min  
Lab File: VY020894.D  
Acq: 22 Jan 2025 11:27

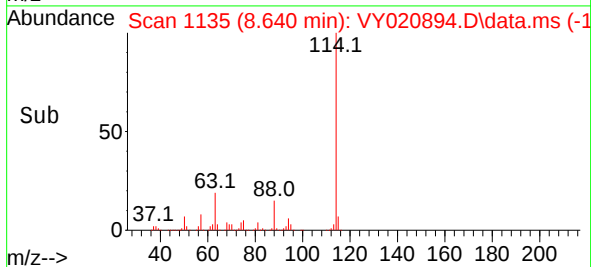
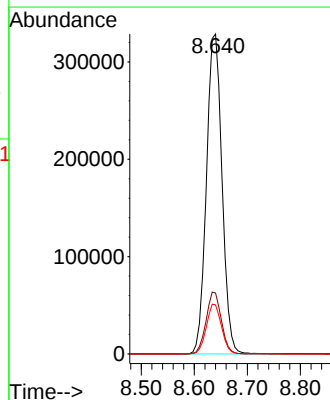
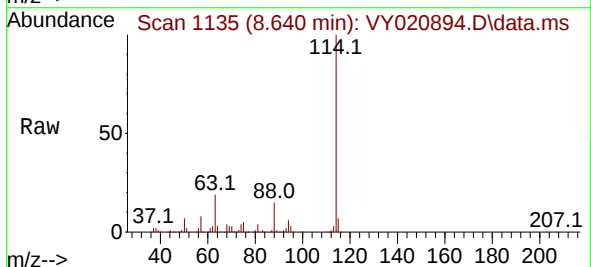
Instrument :  
MSVOA\_Y  
ClientSampleId :

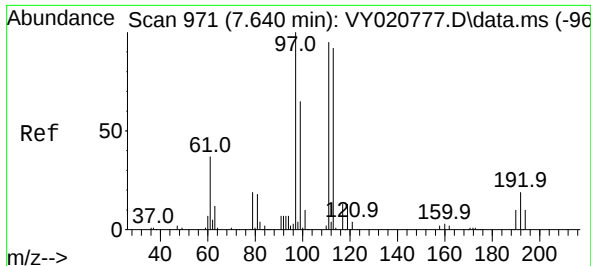
Tgt Ion: 65 Resp: 164326  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 102.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.640 min Scan# 1135  
Delta R.T. 0.000 min  
Lab File: VY020894.D  
Acq: 22 Jan 2025 11:27

Tgt Ion:114 Resp: 670720  
Ion Ratio Lower Upper  
114 100  
63 19.0 0.0 38.4  
88 15.4 0.0 31.2





#35

Dibromofluoromethane

Concen: 43.836 ug/l

RT: 7.664 min Scan# 91

Delta R.T. 0.000 min

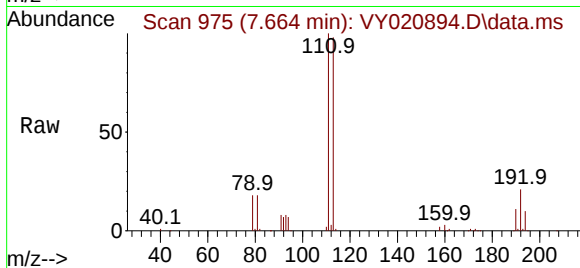
Lab File: VY020894.D

Acq: 22 Jan 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :



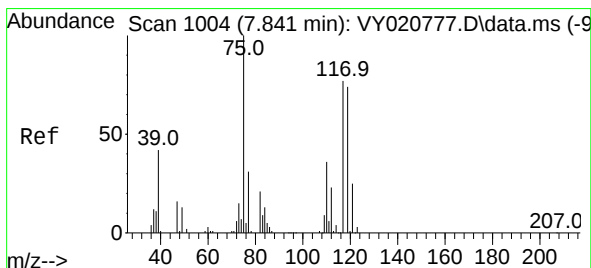
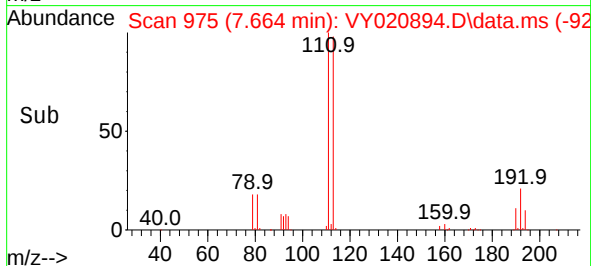
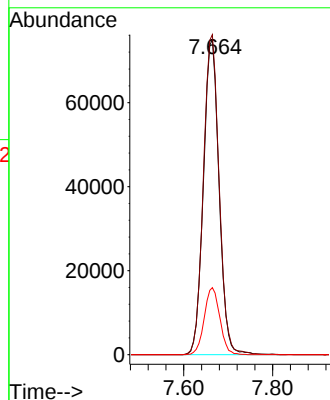
Tgt Ion:113 Resp: 184197

Ion Ratio Lower Upper

113 100

111 102.1 81.7 122.5

192 21.2 16.7 25.1



#36

1,1-Dichloropropene

Concen: 5.706 ug/l

RT: 7.731 min Scan# 986

Delta R.T. -0.134 min

Lab File: VY020894.D

Acq: 22 Jan 2025 11:27

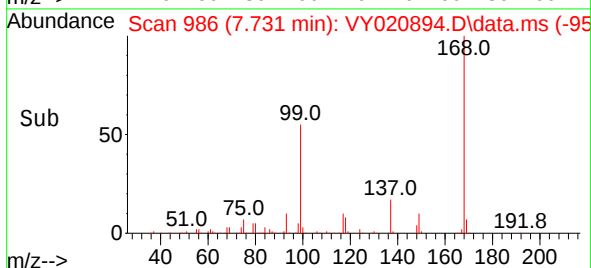
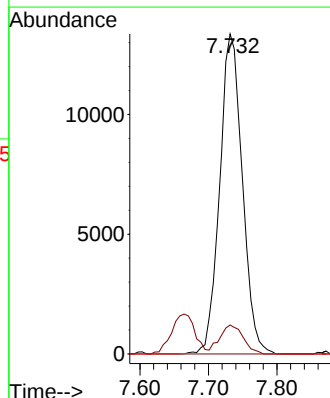
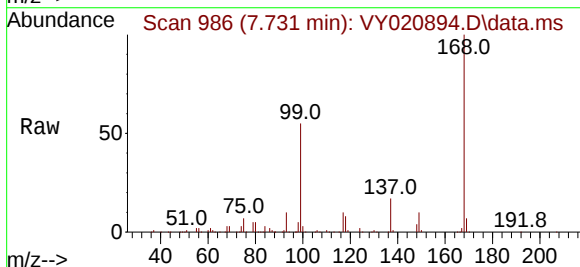
Tgt Ion: 75 Resp: 30582

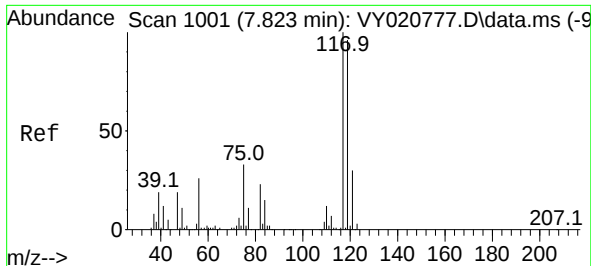
Ion Ratio Lower Upper

75 100

110 9.3 18.5 55.5#

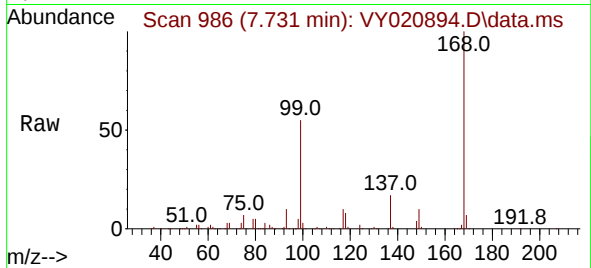
77 0.0 25.0 37.4#



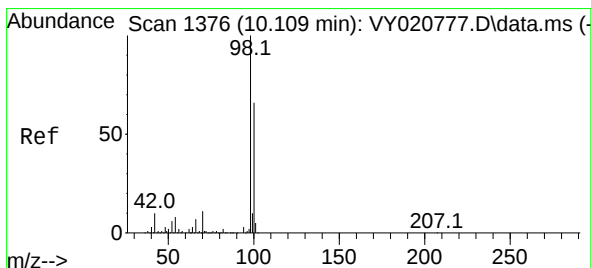
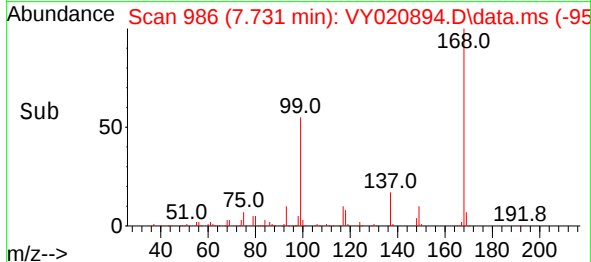
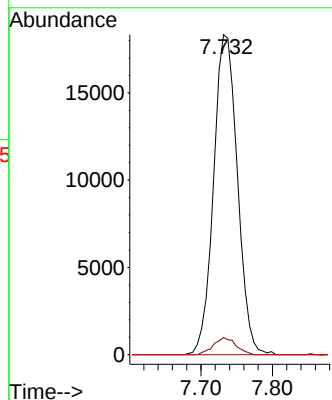


#38  
Carbon Tetrachloride  
Concen: 5.698 ug/l  
RT: 7.731 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY020894.D  
Acq: 22 Jan 2025 11:27

Instrument :  
MSVOA\_Y  
ClientSampleId :

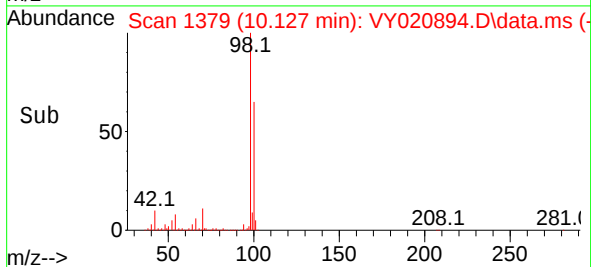
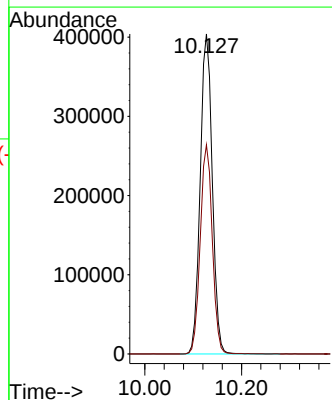
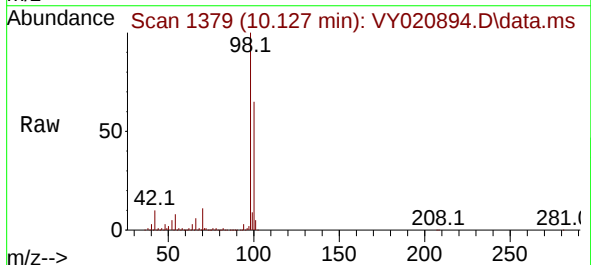


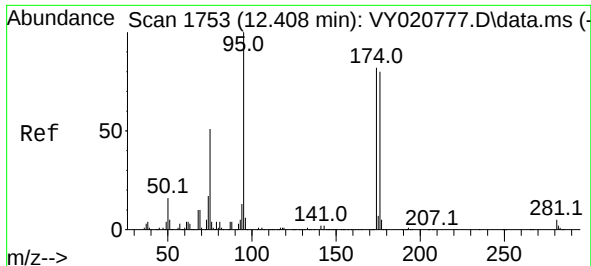
Tgt Ion:117 Resp: 42511  
Ion Ratio Lower Upper  
117 100  
119 5.3 76.5 114.7#  
121 0.0 24.3 36.5#



#50  
Toluene-d8  
Concen: 47.708 ug/l  
RT: 10.127 min Scan# 1379  
Delta R.T. -0.006 min  
Lab File: VY020894.D  
Acq: 22 Jan 2025 11:27

Tgt Ion: 98 Resp: 698835  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.5 78.7





#62

4-Bromofluorobenzene

Concen: 37.282 ug/l

RT: 12.426 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY020894.D

Acq: 22 Jan 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

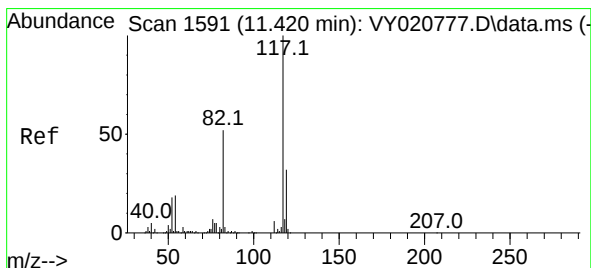
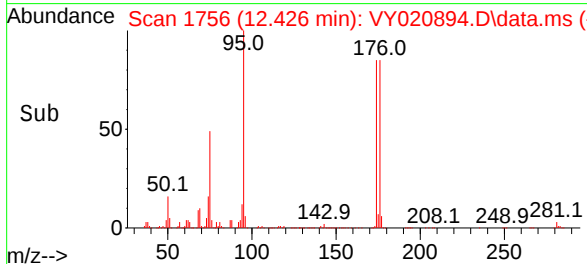
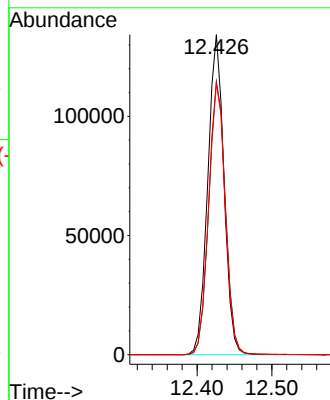
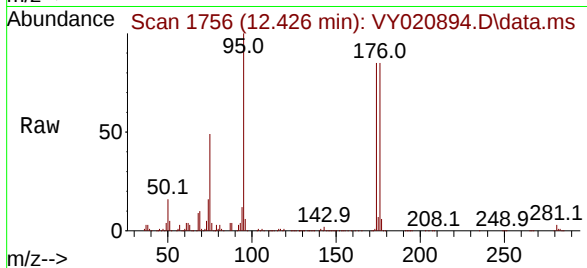
Tgt Ion: 95 Resp: 201670

Ion Ratio Lower Upper

95 100

174 88.3 0.0 178.0

176 86.9 0.0 172.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.438 min Scan# 1594

Delta R.T. 0.000 min

Lab File: VY020894.D

Acq: 22 Jan 2025 11:27

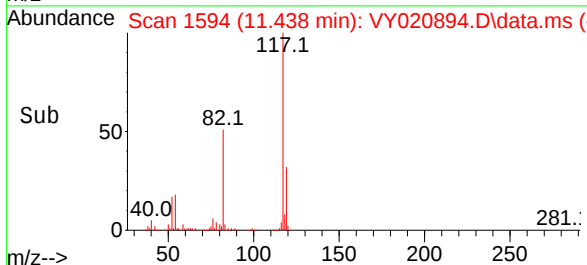
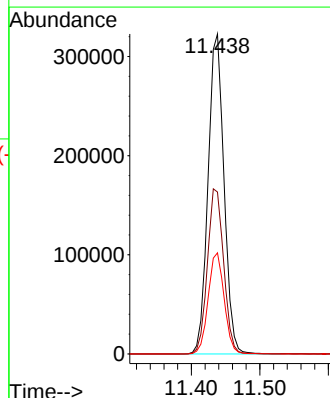
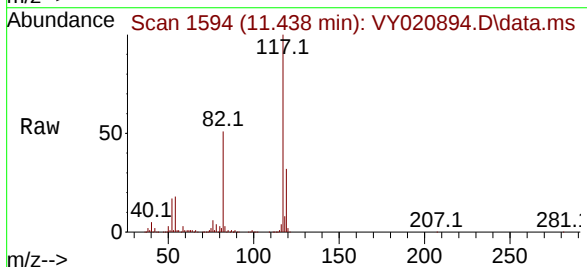
Tgt Ion: 117 Resp: 523054

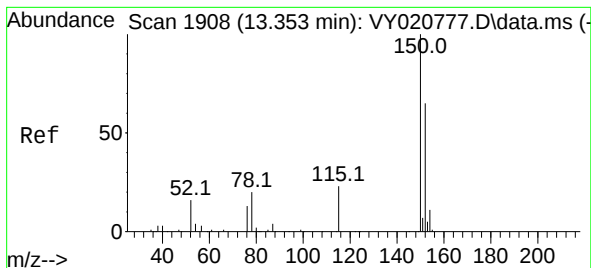
Ion Ratio Lower Upper

117 100

82 50.6 41.8 62.6

119 31.6 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.365 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY020894.D

Acq: 22 Jan 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

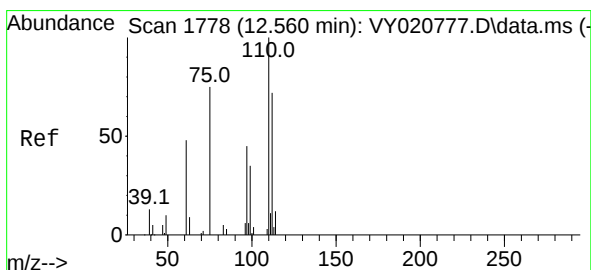
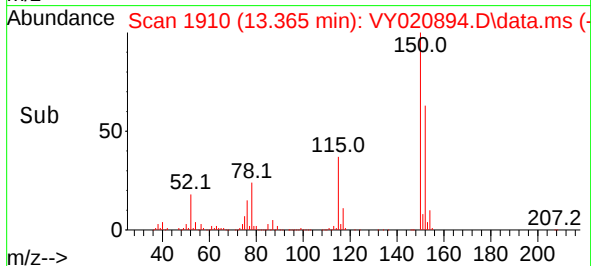
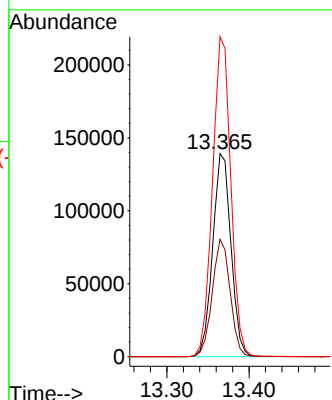
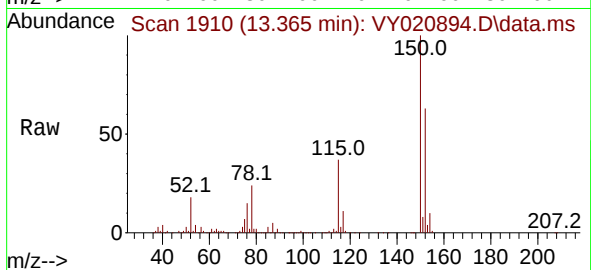
Tgt Ion:152 Resp: 214524

Ion Ratio Lower Upper

152 100

115 56.7 29.0 87.0

150 158.1 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 53.934 ug/l

RT: 12.426 min Scan# 1756

Delta R.T. -0.152 min

Lab File: VY020894.D

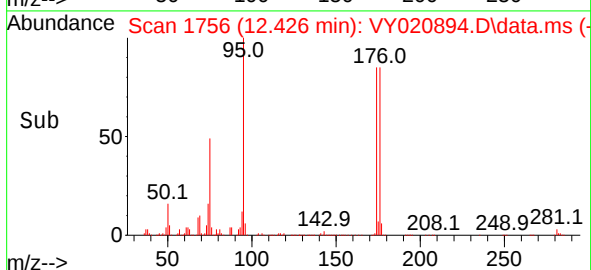
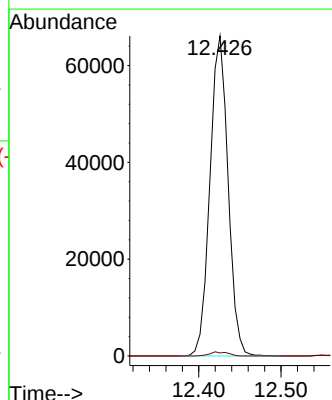
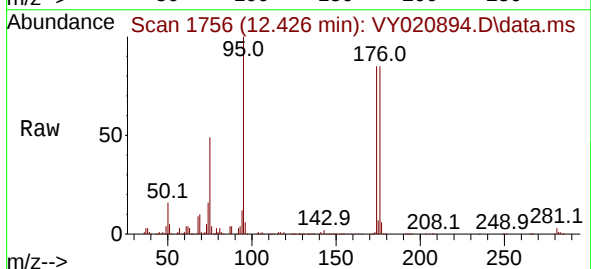
Acq: 22 Jan 2025 11:27

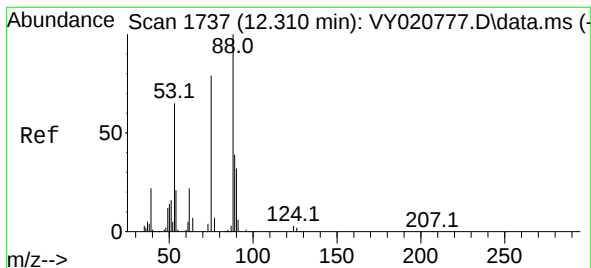
Tgt Ion: 75 Resp: 101236

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#

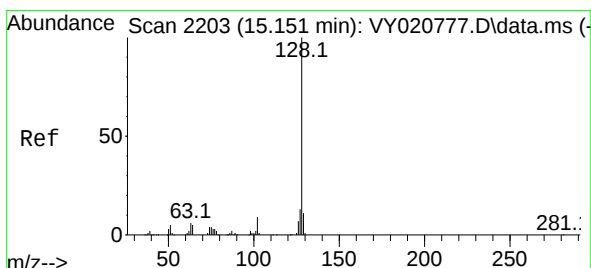
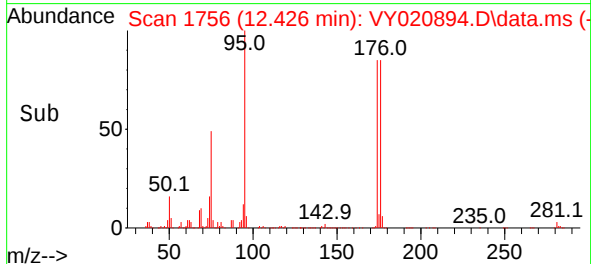
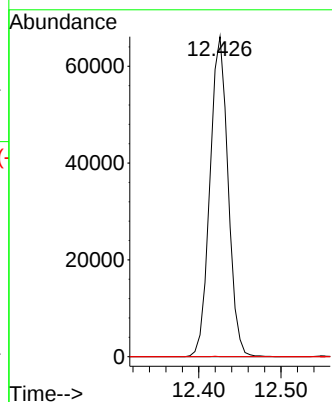
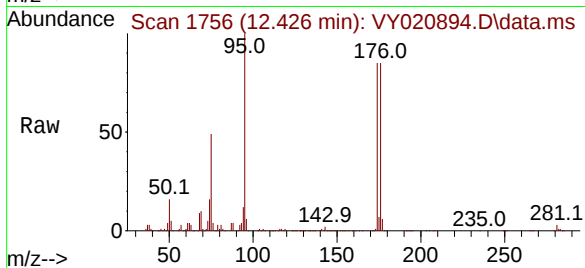




#81  
trans-1,4-Dichloro-2-butene  
Concen: 113.721 ug/l  
RT: 12.426 min Scan# 11  
Delta R.T. 0.098 min  
Lab File: VY020894.D  
Acq: 22 Jan 2025 11:27

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 101236  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.4 104.0#  
89 0.0 39.6 59.4#



#95  
Naphthalene  
Concen: 11.728 ug/l  
RT: 15.169 min Scan# 2206  
Delta R.T. 0.000 min  
Lab File: VY020894.D  
Acq: 22 Jan 2025 11:27

Tgt Ion:128 Resp: 74048  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.5 15.7  
129 11.0 8.6 12.8

