

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV092925\  
 Data File : VV039231.D  
 Acq On : 29 Sep 2025 15:01  
 Operator : SY/MD  
 Sample : Q3195-17DL 50X  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Sep 30 01:26:43 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\82V092225W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 24 08:08:08 2025  
 Response via : Initial Calibration

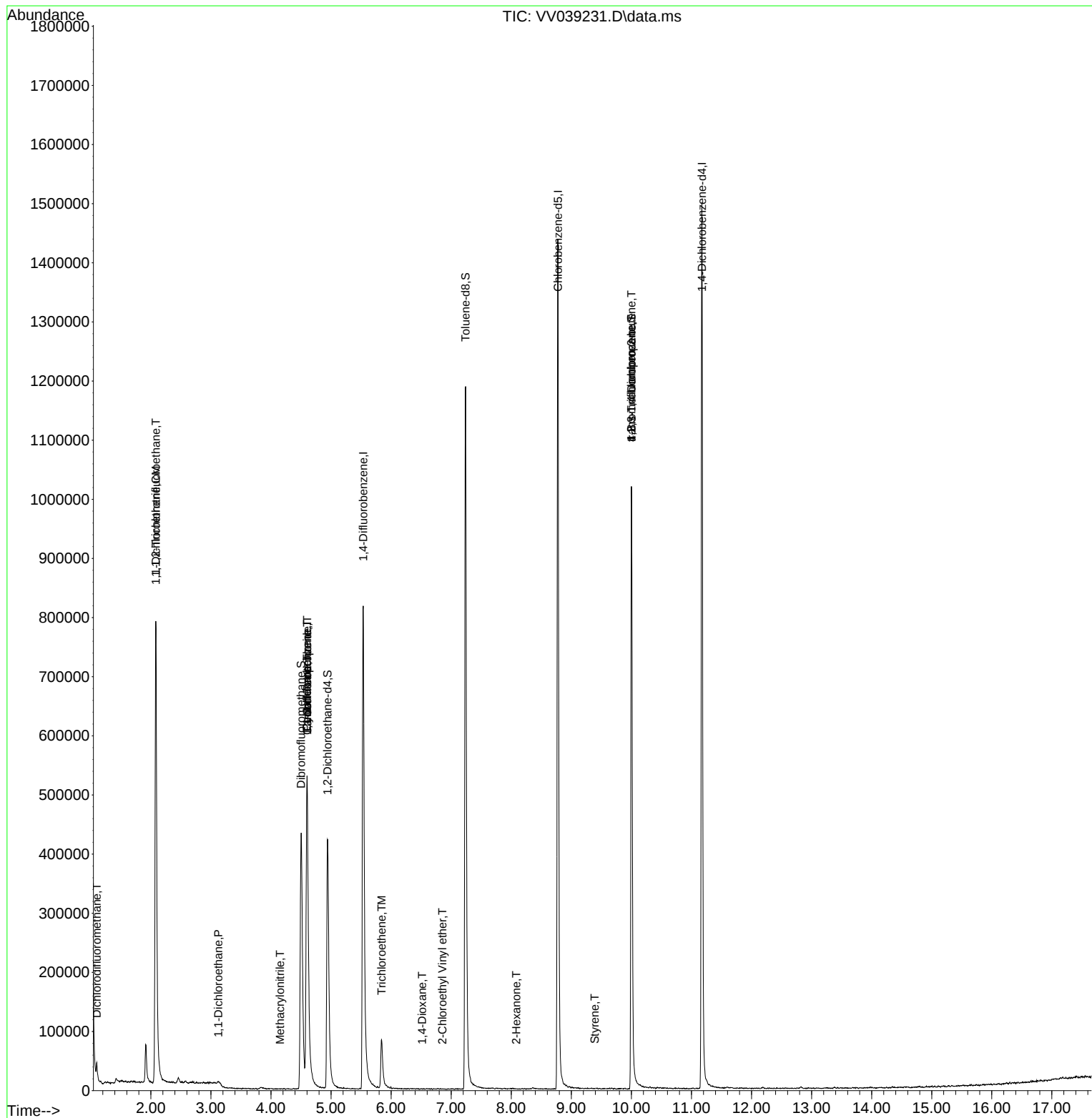
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 4.600  | 168   | 456320   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 5.535  | 114   | 803964   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 8.776  | 117   | 819993   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.175 | 152   | 404883   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 4.940  | 65    | 374781   | 56.748    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 81 - 118 | Recovery  | =      | 113.500% |
| 35) Dibromofluoromethane      | 4.503  | 113   | 365689   | 56.580    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 119 | Recovery  | =      | 113.160% |
| 50) Toluene-d8                | 7.239  | 98    | 869335   | 45.797    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 89 - 112 | Recovery  | =      | 91.600%  |
| 62) 4-Bromofluorobenzene      | 10.001 | 95    | 353271   | 45.207    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 85 - 114 | Recovery  | =      | 90.420%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.098  | 85    | 3260     | 0.451     | ug/l   | 92       |
| 6) Chloroethane               | 1.539  | 64    | 703      | Below Cal | #      | 85       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.082  | 101   | 348662   | 48.752    | ug/l   | 97       |
| 12) 1,1-Dichloroethene        | 2.085  | 96    | 2199     | 0.320     | ug/l # | 67       |
| 16) Acetone                   | 2.121  | 43    | 287      | Below Cal | #      | 50       |
| 20) Methylene Chloride        | 2.461  | 84    | 5055     | Below Cal | #      | 83       |
| 24) 1,1-Dichloroethane        | 3.124  | 63    | 3031     | 0.211     | ug/l # | 88       |
| 31) Cyclohexane               | 4.600  | 56    | 10089    | 0.856     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 4.603  | 75    | 38684    | 3.959     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 4.603  | 117   | 47727    | 3.996     | ug/l # | 18       |
| 41) Methacrylonitrile         | 4.149  | 41    | 100      | 1.928     | ug/l # | 33       |
| 44) Trichloroethene           | 5.841  | 130   | 36388    | 4.956     | ug/l   | 100      |
| 49) 1,4-Dioxane               | 6.516  | 88    | 80       | 0.676     | ug/l # | 9        |
| 58) 2-Chloroethyl Vinyl ether | 6.854  | 63    | 72       | 9.635     | ug/l # | 47       |
| 59) 2-Hexanone                | 8.085  | 43    | 20       | 2.328     | ug/l # | 23       |
| 70) Styrene                   | 9.390  | 104   | 20       | 1.562     | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 10.001 | 75    | 174092   | 18.885    | ug/l # | 56       |
| 81) trans-1,4-Dichloro-2-b... | 10.001 | 75    | 174092   | 45.337    | ug/l # | 13       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.406 | 75    | 20       | Below Cal | #      | 5        |
| -----                         |        |       |          |           |        |          |

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

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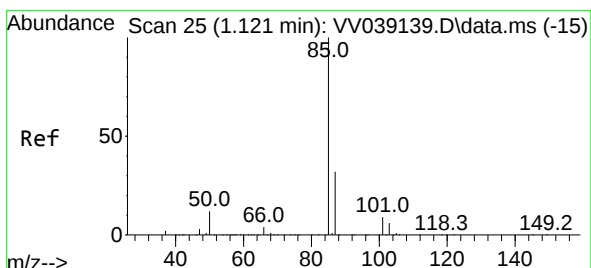
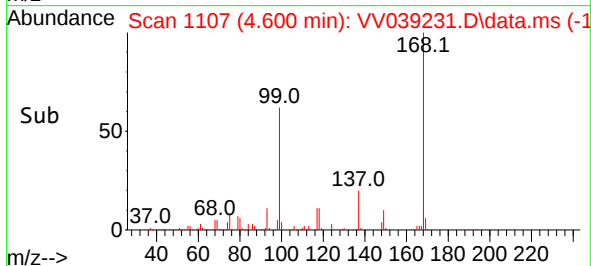
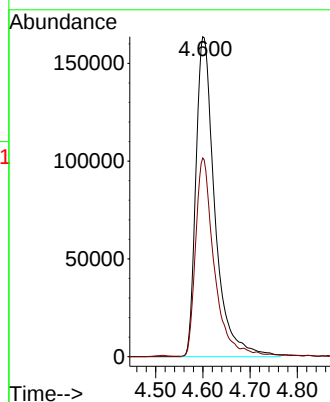
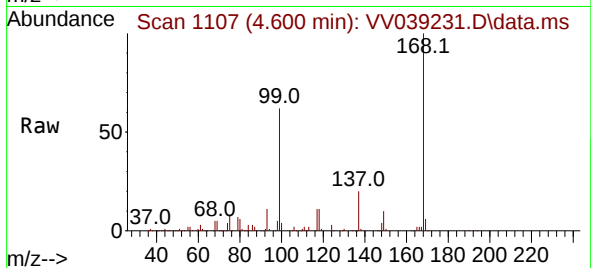




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 4.600 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

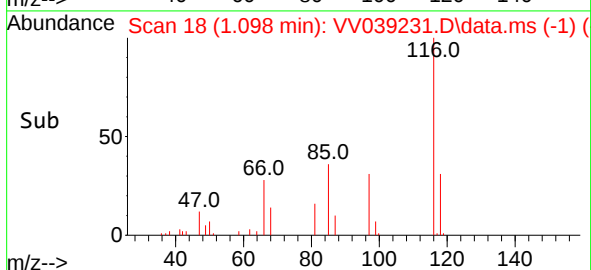
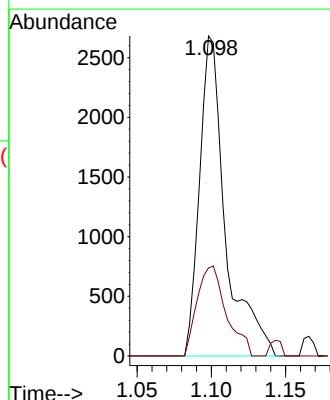
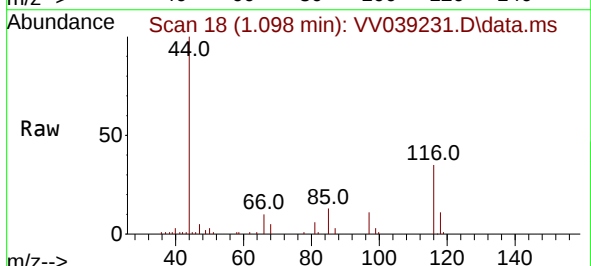
Instrument :  
MSVOA\_V  
ClientSampleId :

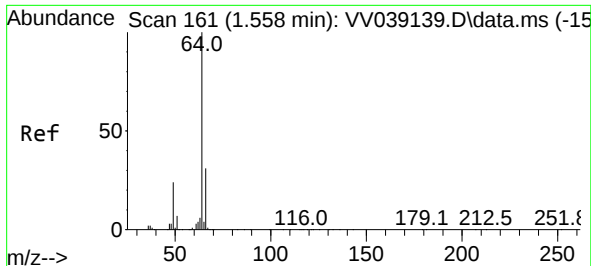
Tgt Ion:168 Resp: 456320  
Ion Ratio Lower Upper  
168 100  
99 62.0 49.6 74.4



#2  
Dichlorodifluoromethane  
Concen: 0.451 ug/l  
RT: 1.098 min Scan# 18  
Delta R.T. -0.023 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

Tgt Ion: 85 Resp: 3260  
Ion Ratio Lower Upper  
85 100  
87 27.5 16.0 47.9

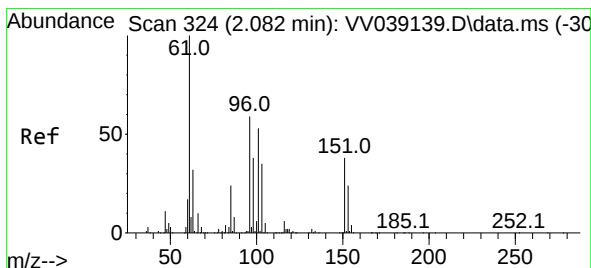
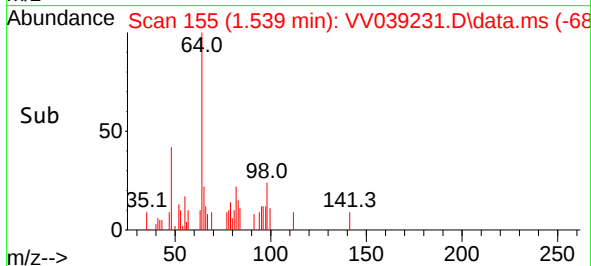
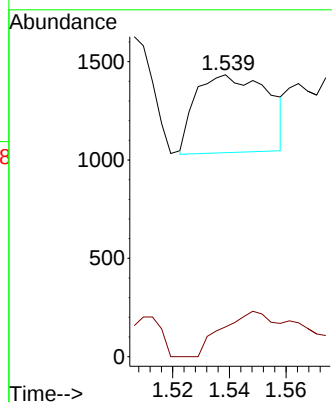
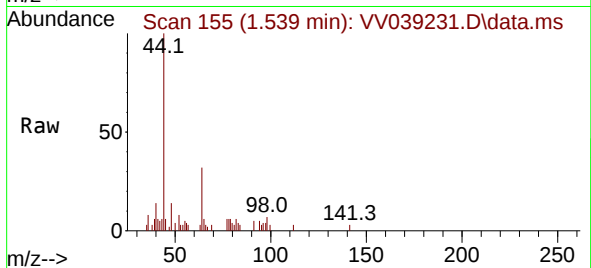




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.539 min Scan# 11  
Delta R.T. -0.019 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

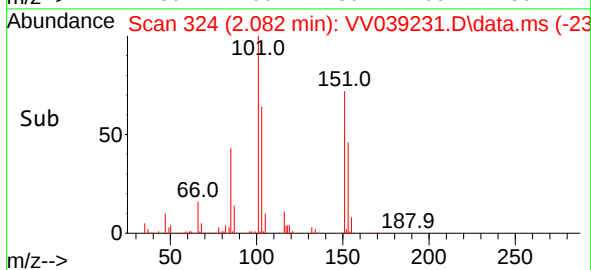
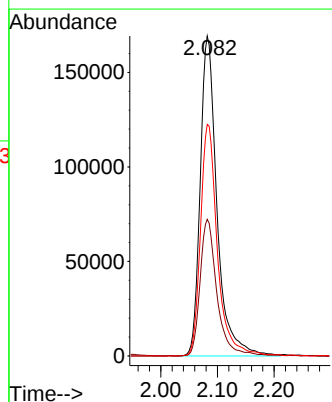
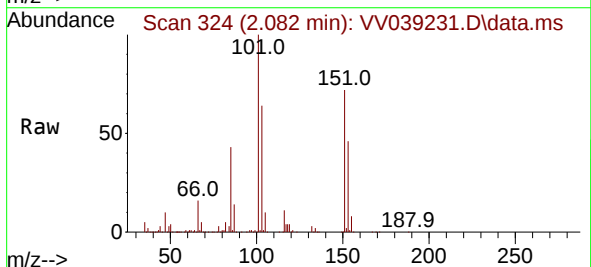
Instrument :  
MSVOA\_V  
ClientSampleId :

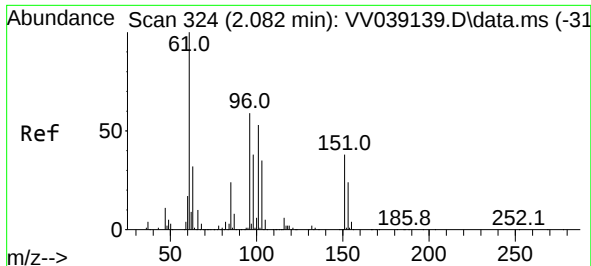
Tgt Ion: 64 Resp: 703  
Ion Ratio Lower Upper  
64 100  
66 39.1 24.6 36.8#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 48.752 ug/l  
RT: 2.082 min Scan# 324  
Delta R.T. -0.000 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

Tgt Ion:101 Resp: 348662  
Ion Ratio Lower Upper  
101 100  
85 43.0 36.2 54.2  
151 72.8 56.3 84.5





#12

1,1-Dichloroethene

Concen: 0.320 ug/l

RT: 2.085 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV039231.D

Acq: 29 Sep 2025 15:01

Instrument :

MSVOA\_V

ClientSampleId :

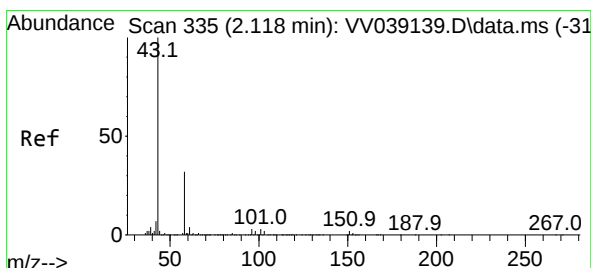
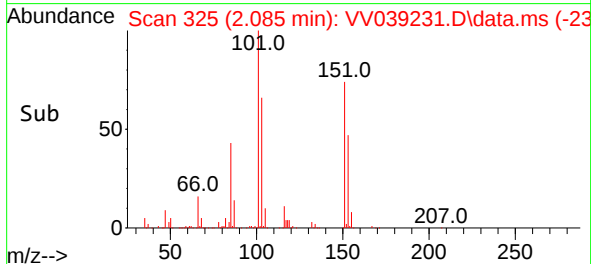
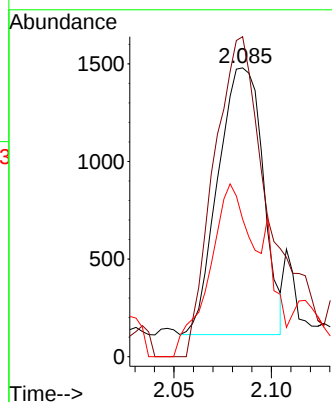
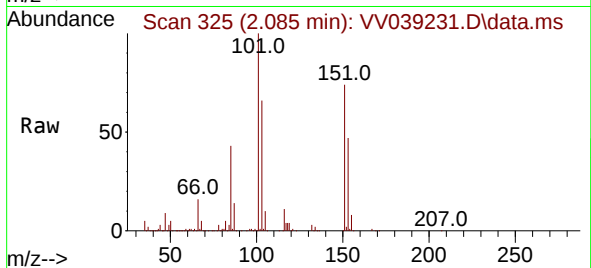
Tgt Ion: 96 Resp: 2199

Ion Ratio Lower Upper

96 100

61 120.0 136.0 204.0#

98 44.0 51.0 76.6#



#16

Acetone

Concen: Below Cal

RT: 2.121 min Scan# 336

Delta R.T. 0.003 min

Lab File: VV039231.D

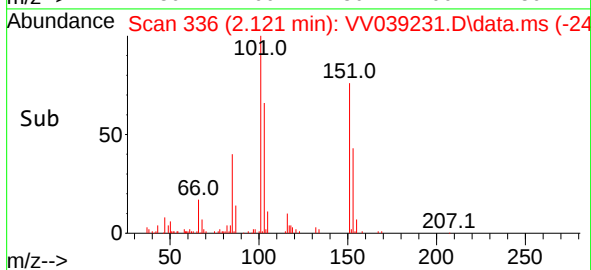
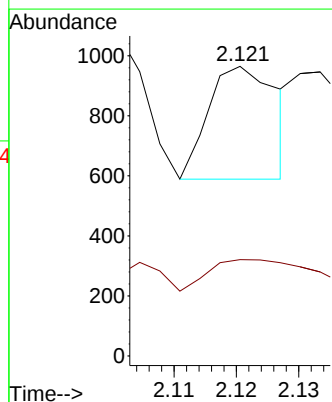
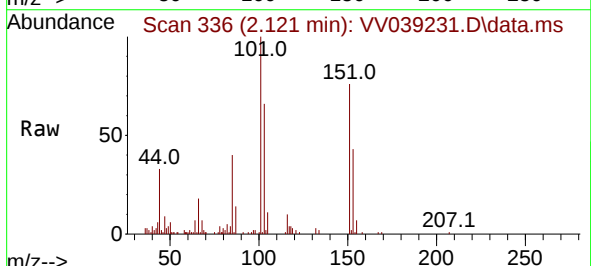
Acq: 29 Sep 2025 15:01

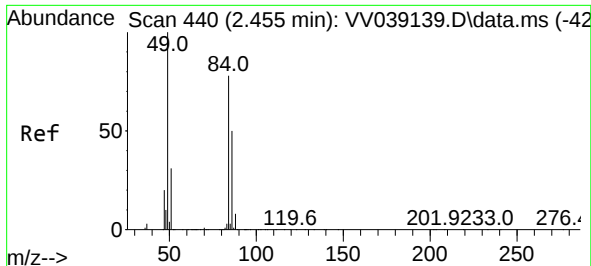
Tgt Ion: 43 Resp: 287

Ion Ratio Lower Upper

43 100

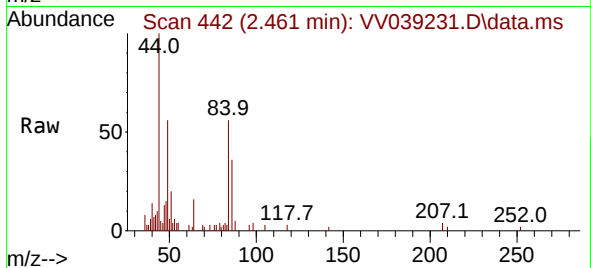
58 60.4 25.8 38.6#



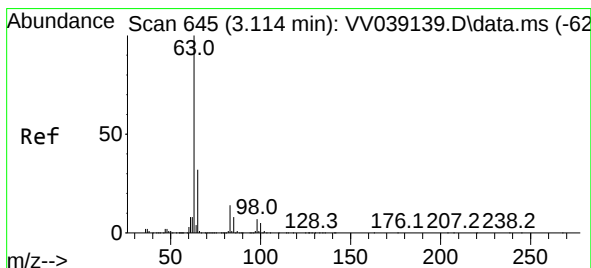
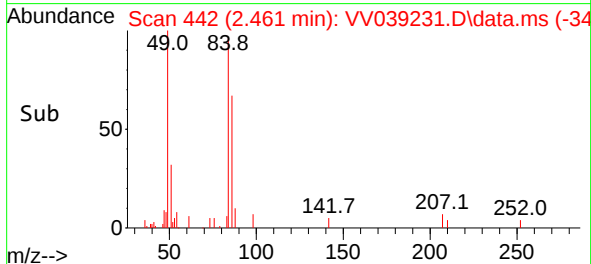
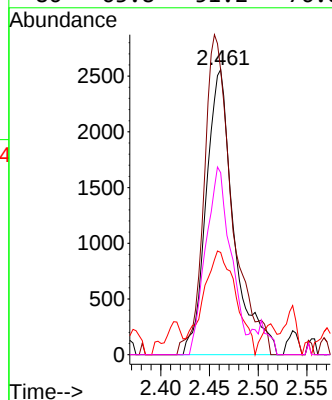


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.461 min Scan# 440  
Delta R.T. 0.006 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

Instrument :  
MSVOA\_V  
ClientSampleId :

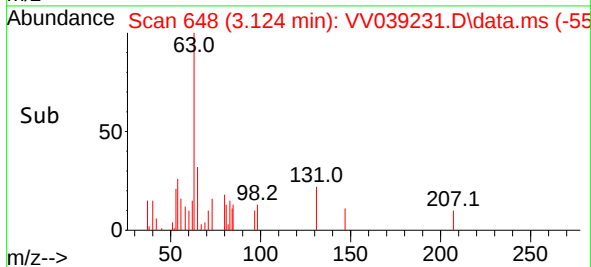
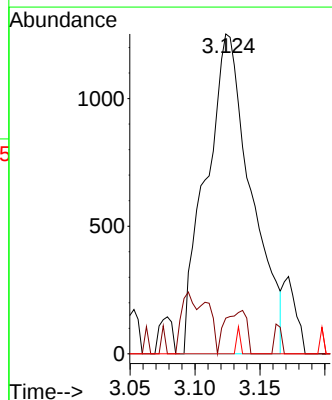
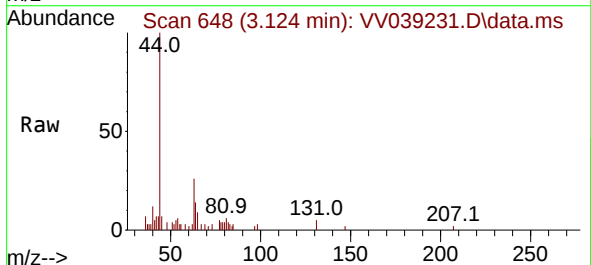


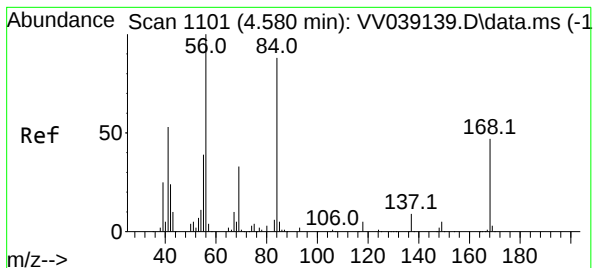
Tgt Ion: 84 Resp: 5055  
Ion Ratio Lower Upper  
84 100  
49 99.8 102.8 154.2#  
51 28.4 31.9 47.9#  
86 63.8 51.2 76.8



#24  
1,1-Dichloroethane  
Concen: 0.211 ug/l  
RT: 3.124 min Scan# 648  
Delta R.T. 0.009 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

Tgt Ion: 63 Resp: 3031  
Ion Ratio Lower Upper  
63 100  
98 2.9 3.4 10.2#  
100 0.0 2.2 6.6#





#31

Cyclohexane

Concen: 0.856 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. 0.019 min

Lab File: VV039231.D

Acq: 29 Sep 2025 15:01

Instrument :

MSVOA\_V

ClientSampleId :

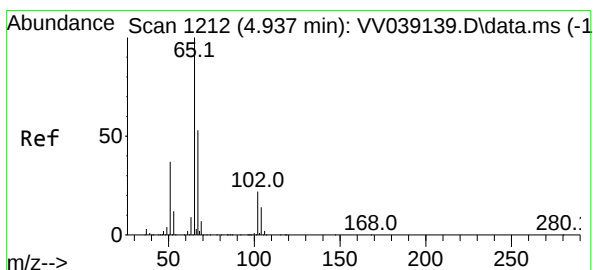
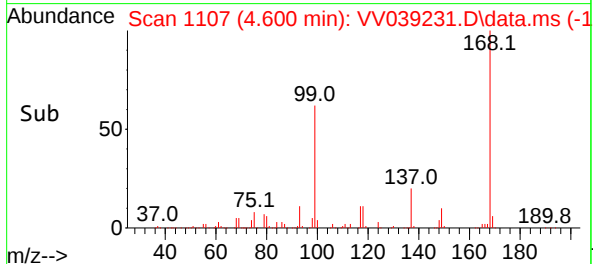
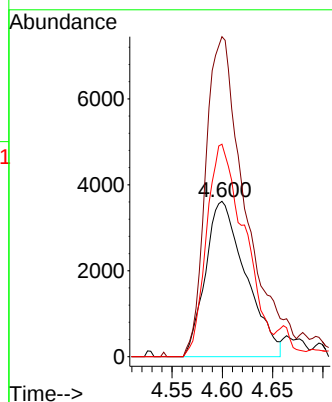
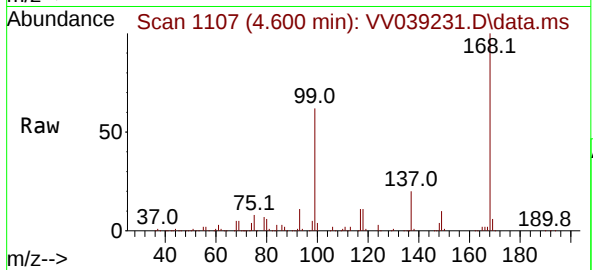
Tgt Ion: 56 Resp: 10089

Ion Ratio Lower Upper

56 100

69 206.1 26.2 39.2#

84 136.8 70.3 105.5#



#33

1,2-Dichloroethane-d4

Concen: 56.748 ug/l

RT: 4.940 min Scan# 1213

Delta R.T. 0.003 min

Lab File: VV039231.D

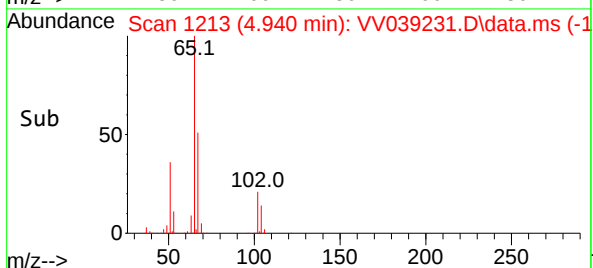
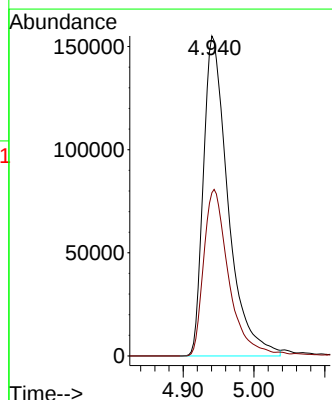
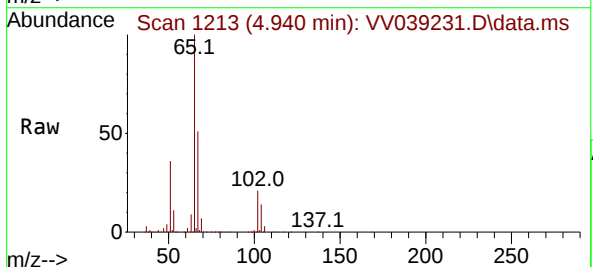
Acq: 29 Sep 2025 15:01

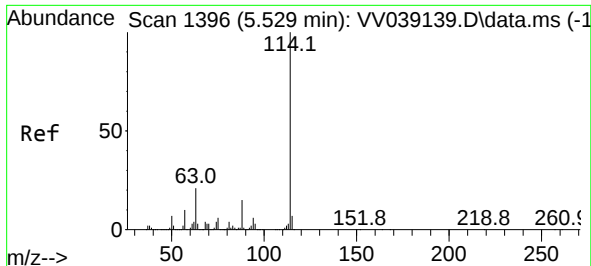
Tgt Ion: 65 Resp: 374781

Ion Ratio Lower Upper

65 100

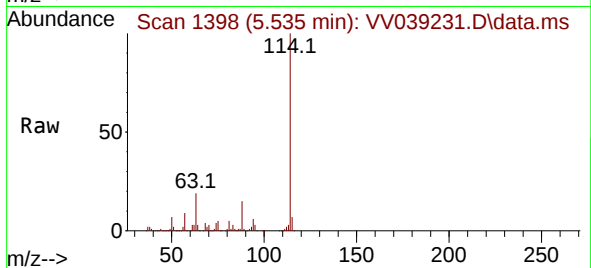
67 52.6 0.0 107.0



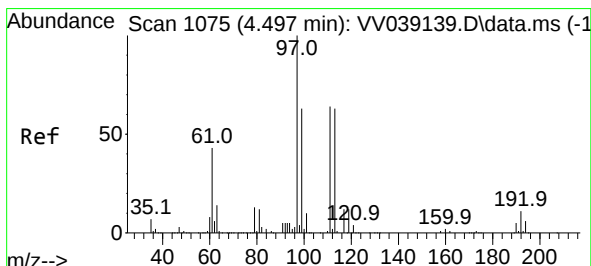
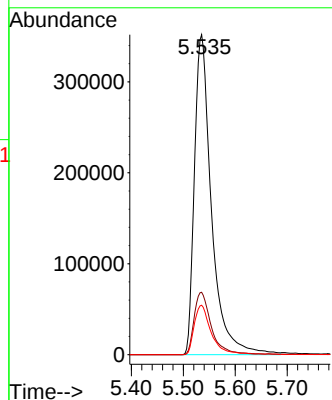
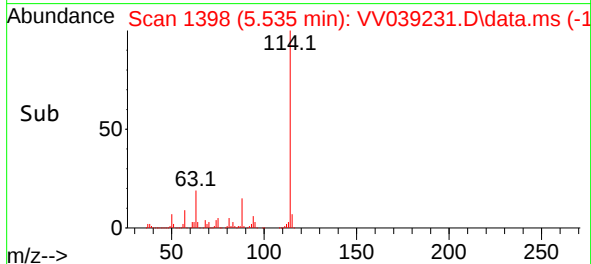


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.535 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

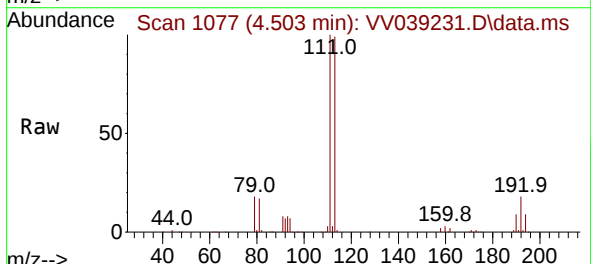
Instrument :  
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ClientSampleId :



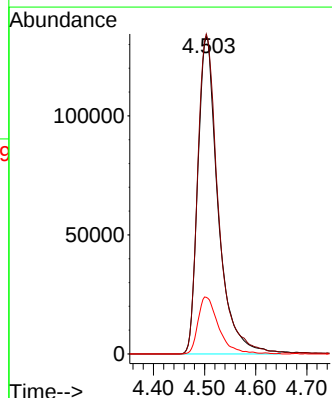
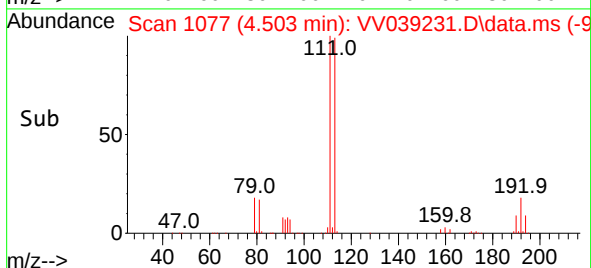
Tgt Ion:114 Resp: 803964  
Ion Ratio Lower Upper  
114 100  
63 19.5 0.0 42.6  
88 15.5 0.0 30.8

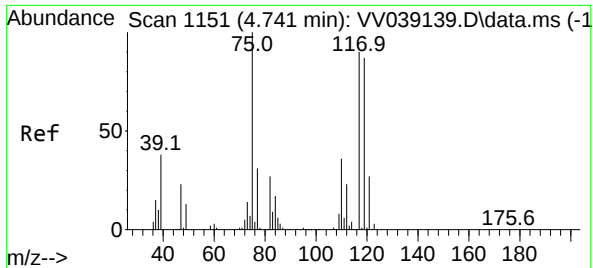


#35  
Dibromofluoromethane  
Concen: 56.580 ug/l  
RT: 4.503 min Scan# 1077  
Delta R.T. 0.006 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01



Tgt Ion:113 Resp: 365689  
Ion Ratio Lower Upper  
113 100  
111 102.3 82.4 123.6  
192 18.3 13.8 20.8





#36

1,1-Dichloropropene

Concen: 3.959 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. -0.138 min

Lab File: VV039231.D

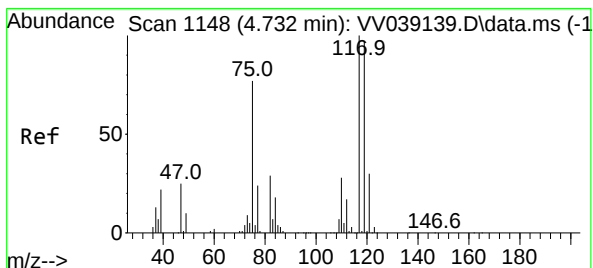
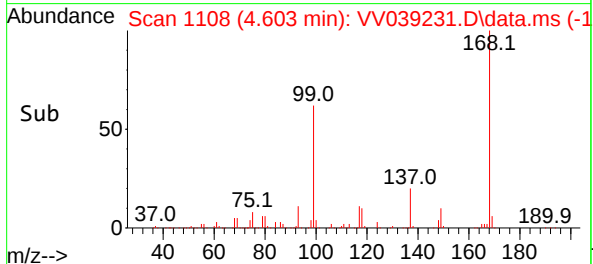
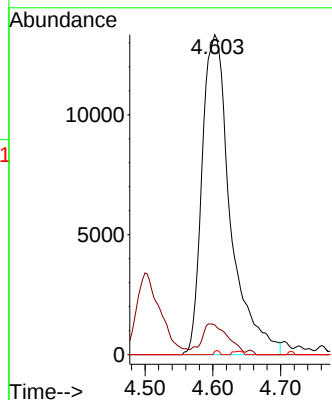
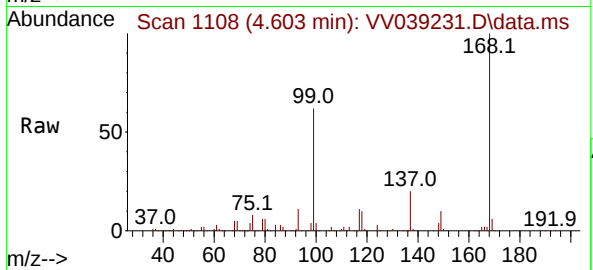
Acq: 29 Sep 2025 15:01

Instrument :

MSVOA\_V

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 38684 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 9.0   | 18.1  | 54.1# |
| 77        | 0.2   | 24.8  | 37.2# |



#38

Carbon Tetrachloride

Concen: 3.996 ug/l

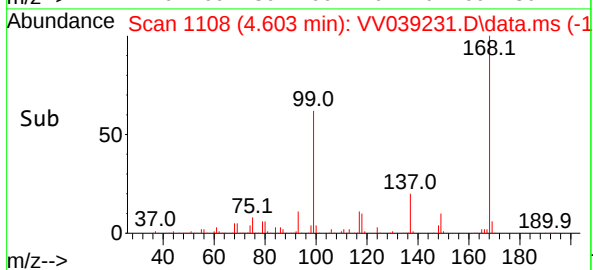
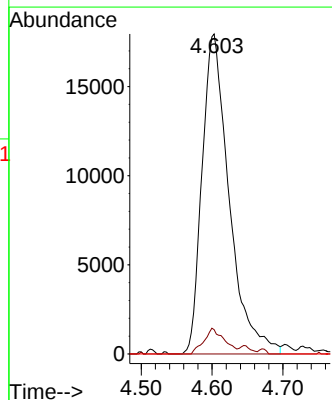
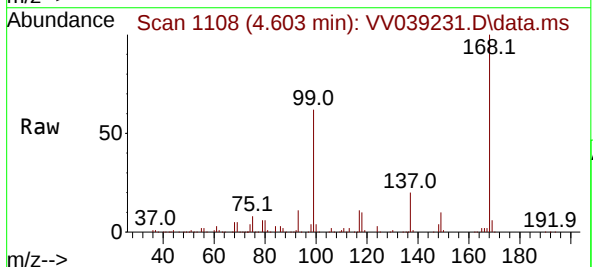
RT: 4.603 min Scan# 1108

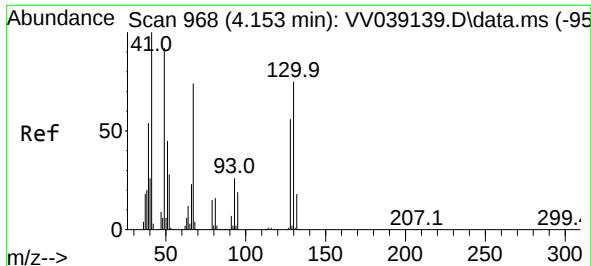
Delta R.T. -0.129 min

Lab File: VV039231.D

Acq: 29 Sep 2025 15:01

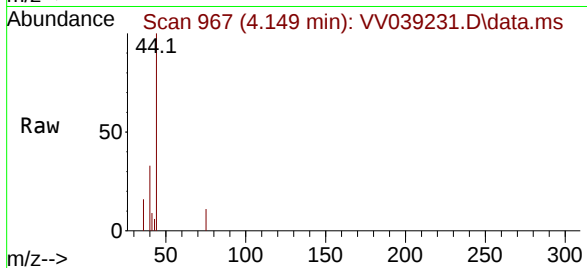
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 47727  |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 7.6   | 77.2  | 115.8# |
| 121       | 0.0   | 24.2  | 36.2#  |



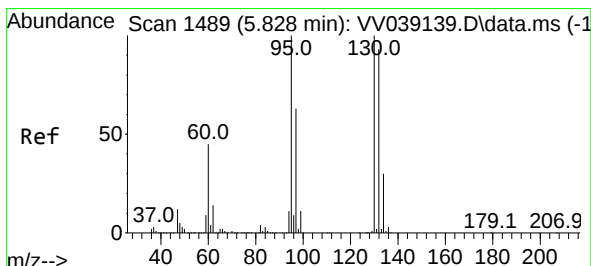
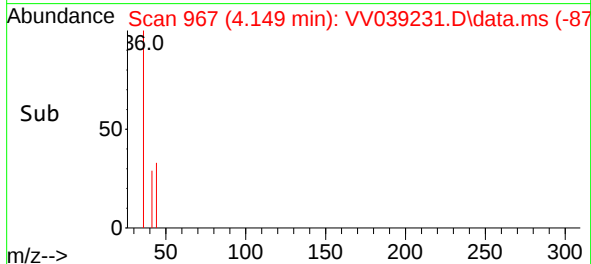
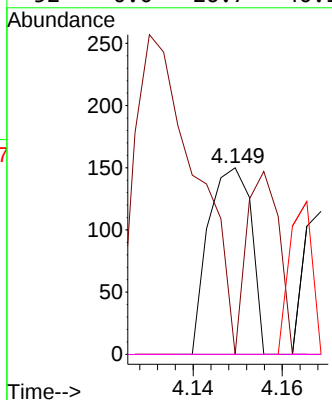


#41  
Methacrylonitrile  
Concen: 1.928 ug/l  
RT: 4.149 min Scan# 90  
Delta R.T. -0.004 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

Instrument :  
MSVOA\_V  
ClientSampleId :

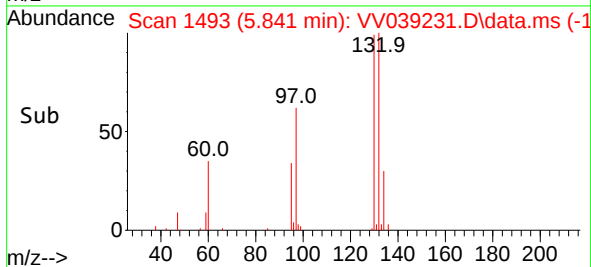
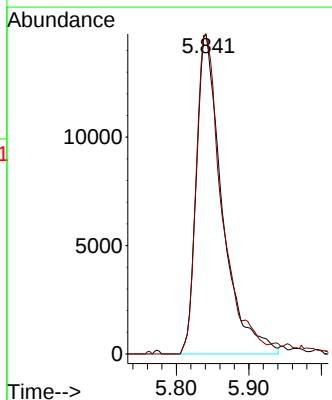
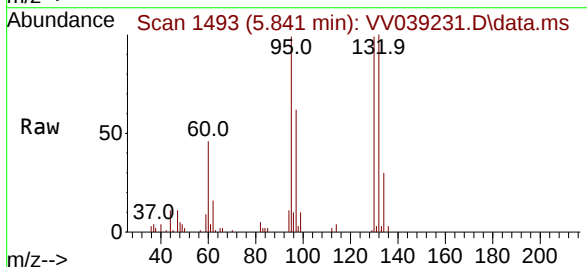


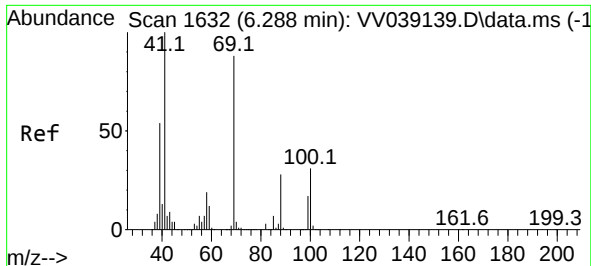
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 100    |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 74.0  | 42.2  | 63.2#  |
| 67       | 0.0   | 67.9  | 101.9# |
| 52       | 0.0   | 26.7  | 40.1#  |



#44  
Trichloroethene  
Concen: 4.956 ug/l  
RT: 5.841 min Scan# 1493  
Delta R.T. 0.013 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

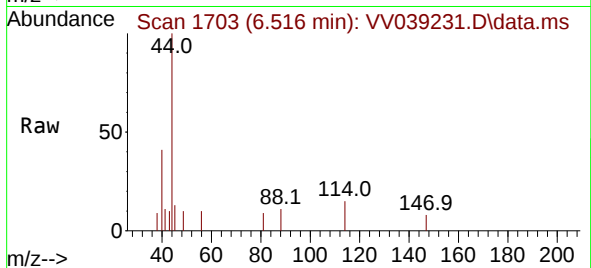
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 36388 |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 99.8  | 0.0   | 199.2 |



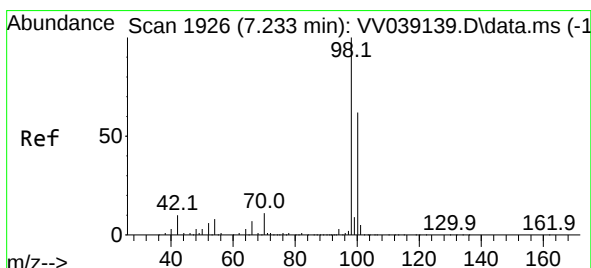
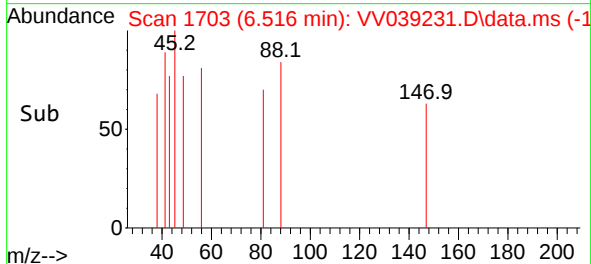
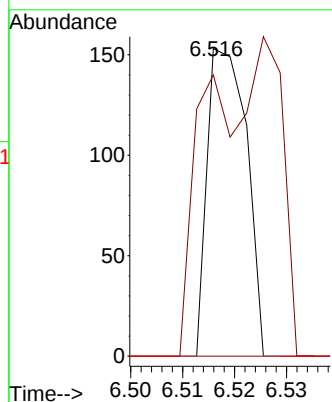


#49  
1,4-Dioxane  
Concen: 0.676 ug/l  
RT: 6.516 min Scan# 1703  
Delta R.T. 0.228 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

Instrument :  
MSVOA\_V  
ClientSampleId :

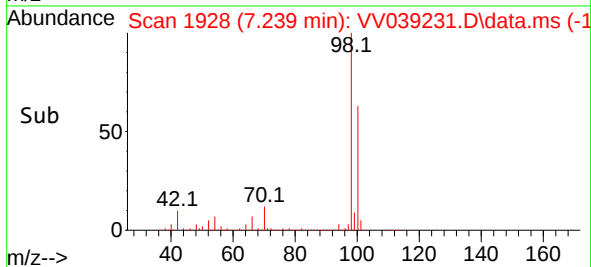
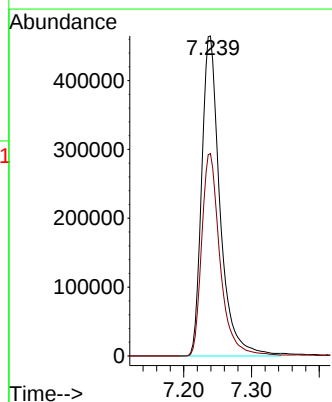
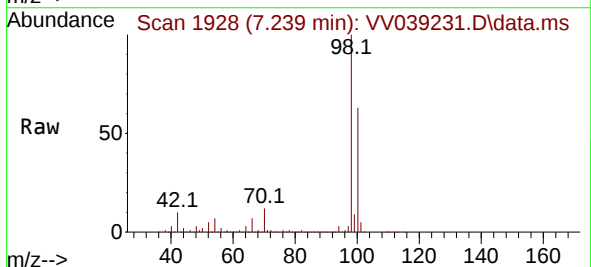


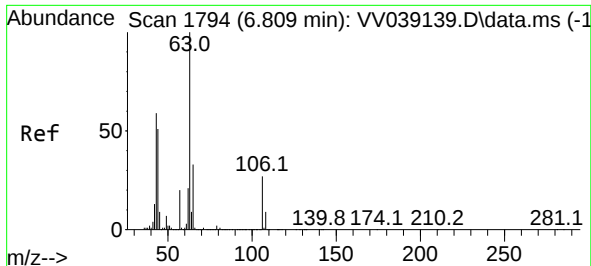
Tgt Ion: 88 Resp: 80  
Ion Ratio Lower Upper  
88 100  
43 90.0 25.1 37.7#  
58 0.0 53.6 80.4#



#50  
Toluene-d8  
Concen: 45.797 ug/l  
RT: 7.239 min Scan# 1928  
Delta R.T. 0.006 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

Tgt Ion: 98 Resp: 869335  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.2 78.2

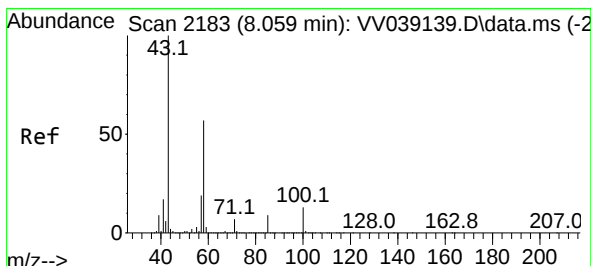
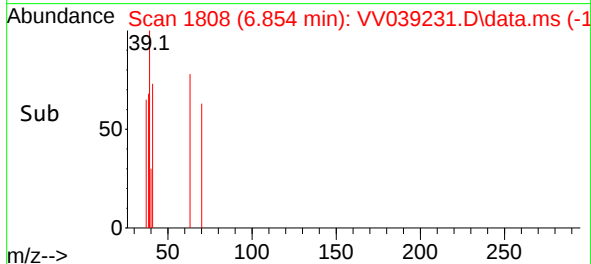
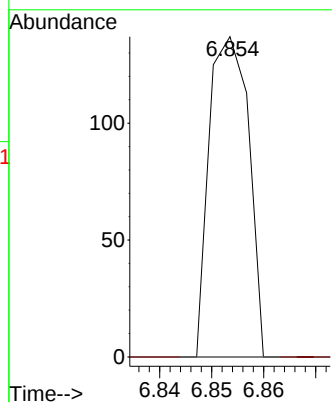
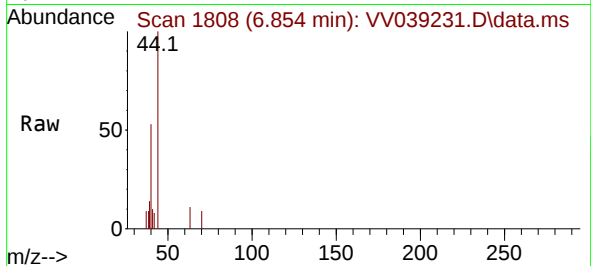




#58  
2-Chloroethyl Vinyl ether  
Concen: 9.635 ug/l  
RT: 6.854 min Scan# 11  
Delta R.T. 0.045 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

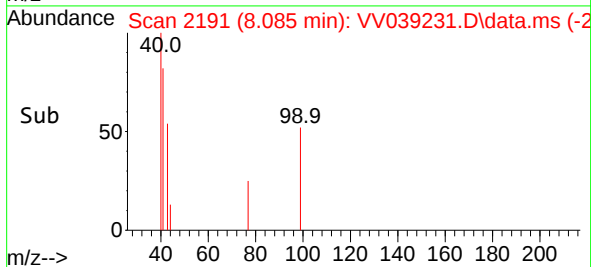
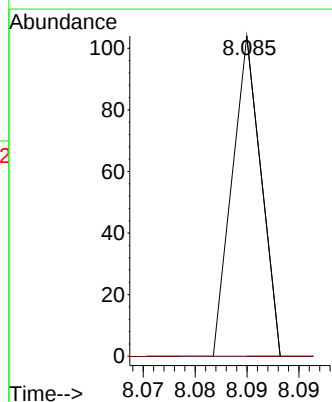
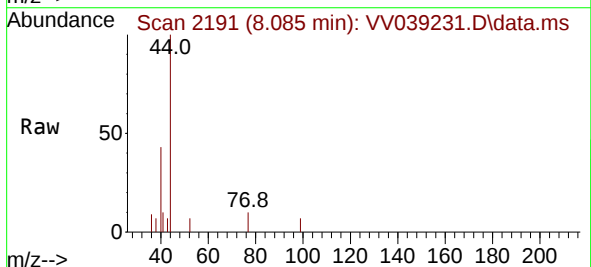
Instrument :  
MSVOA\_V  
ClientSampleId :

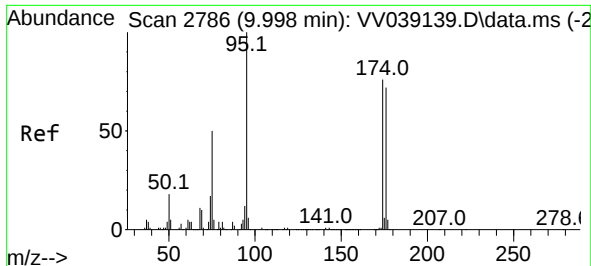
Tgt Ion: 63 Resp: 72  
Ion Ratio Lower Upper  
63 100  
106 0.0 22.1 33.1#



#59  
2-Hexanone  
Concen: 2.328 ug/l  
RT: 8.085 min Scan# 2191  
Delta R.T. 0.026 min  
Lab File: VV039231.D  
Acq: 29 Sep 2025 15:01

Tgt Ion: 43 Resp: 20  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.3 85.0#





#62

4-Bromofluorobenzene

Concen: 45.207 ug/l

RT: 10.001 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV039231.D

Acq: 29 Sep 2025 15:01

Instrument :

MSVOA\_V

ClientSampleId :

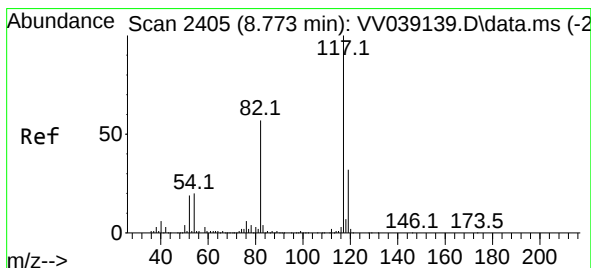
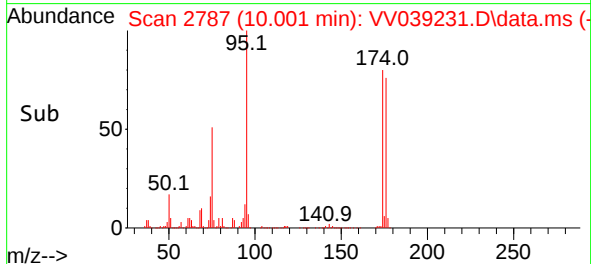
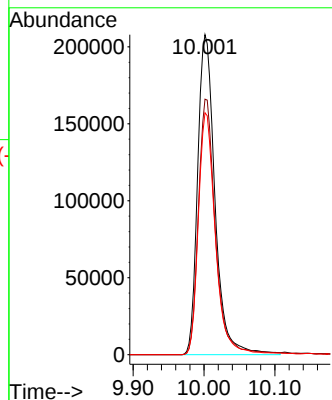
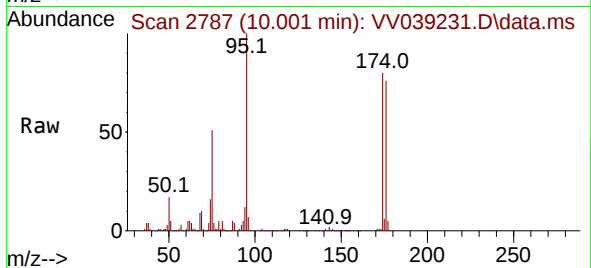
Tgt Ion: 95 Resp: 353271

Ion Ratio Lower Upper

95 100

174 78.9 0.0 150.4

176 74.8 0.0 144.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2406

Delta R.T. 0.003 min

Lab File: VV039231.D

Acq: 29 Sep 2025 15:01

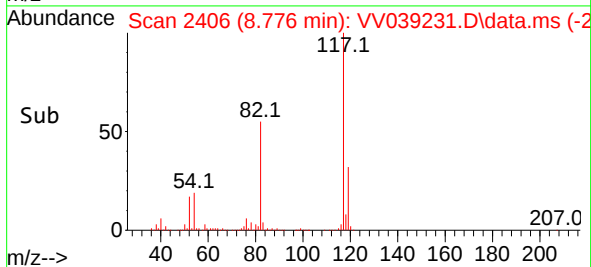
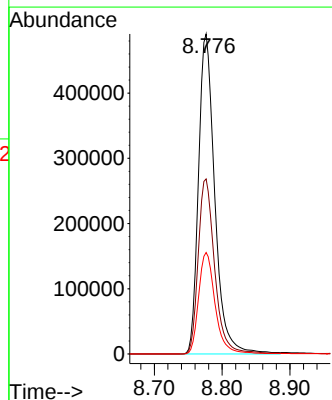
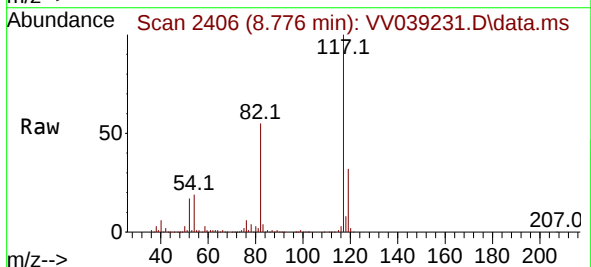
Tgt Ion: 117 Resp: 819993

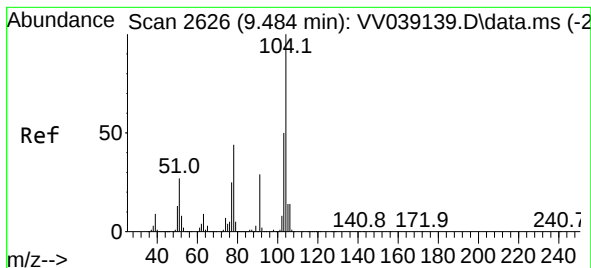
Ion Ratio Lower Upper

117 100

82 54.7 45.4 68.2

119 31.7 25.6 38.4





#70

Styrene

Concen: 1.562 ug/l

RT: 9.390 min Scan# 21

Delta R.T. -0.094 min

Lab File: VV039231.D

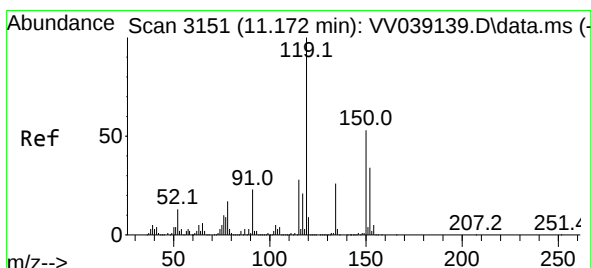
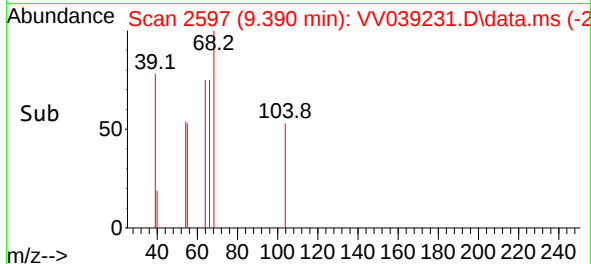
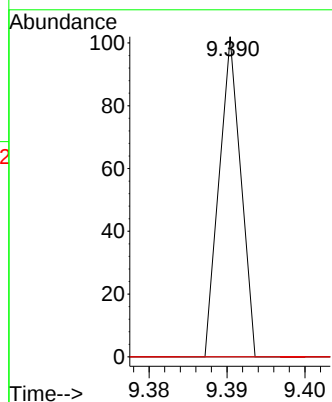
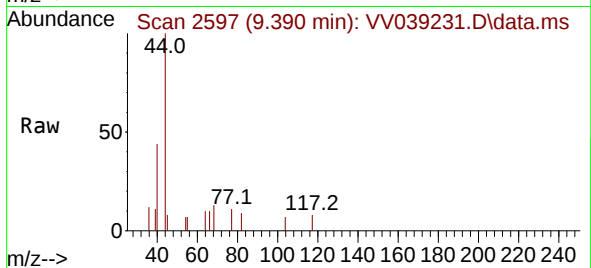
Acq: 29 Sep 2025 15:01

Instrument :

MSVOA\_V

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:104 | Resp: | 20         |
| Ion Ratio   | Lower | Upper      |
| 104         | 100   |            |
| 78          | 0.0   | 39.8 59.6# |
| 103         | 0.0   | 43.4 65.2# |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

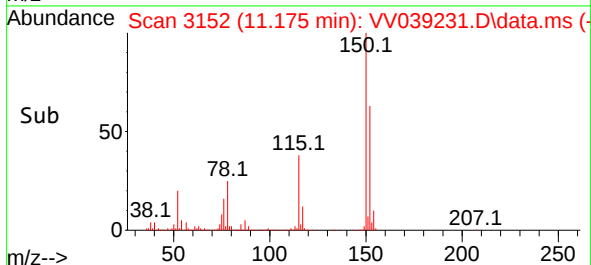
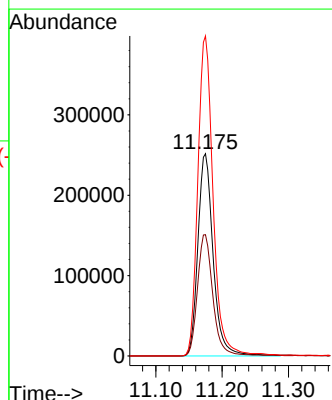
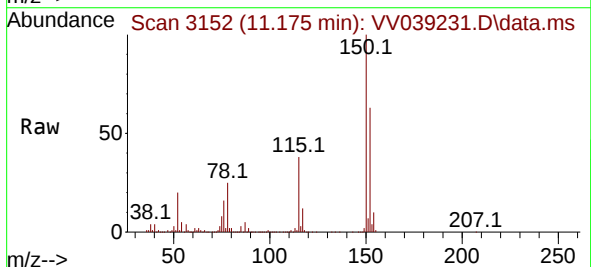
RT: 11.175 min Scan# 3152

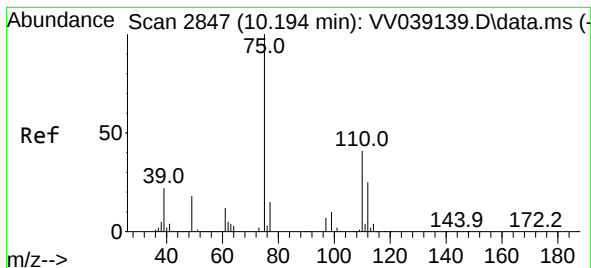
Delta R.T. 0.003 min

Lab File: VV039231.D

Acq: 29 Sep 2025 15:01

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:152 | Resp: | 404883     |
| Ion Ratio   | Lower | Upper      |
| 152         | 100   |            |
| 115         | 60.7  | 44.8 134.4 |
| 150         | 156.6 | 0.0 353.8  |





#76

1,2,3-Trichloropropane

Concen: 18.885 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039231.D

Acq: 29 Sep 2025 15:01

Instrument :

MSVOA\_V

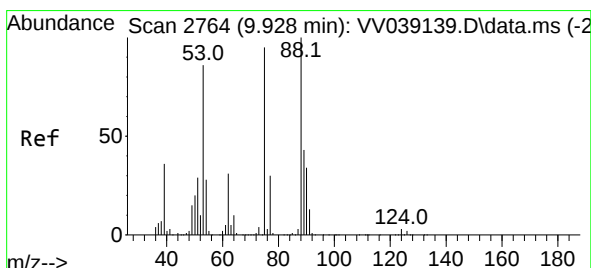
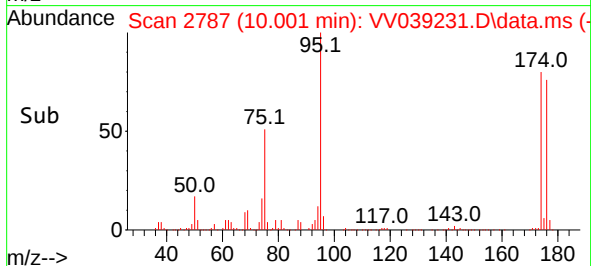
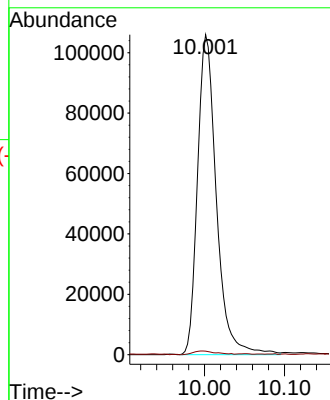
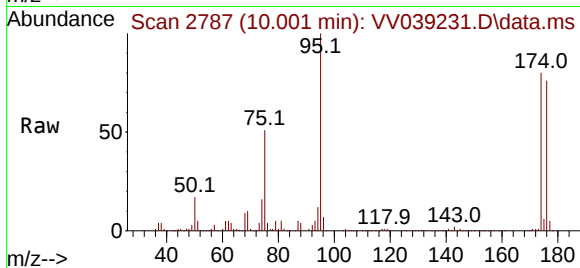
ClientSampleId :

Tgt Ion: 75 Resp: 174092

Ion Ratio Lower Upper

75 100

77 1.5 11.3 33.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 45.337 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV039231.D

Acq: 29 Sep 2025 15:01

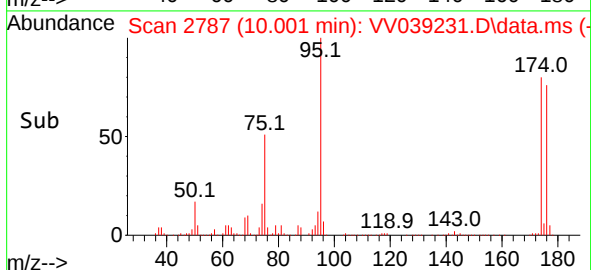
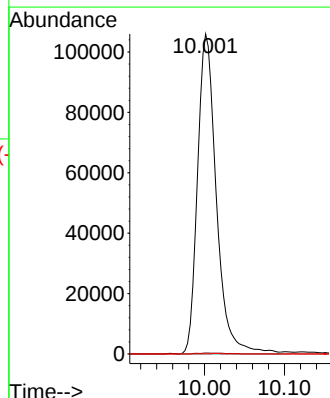
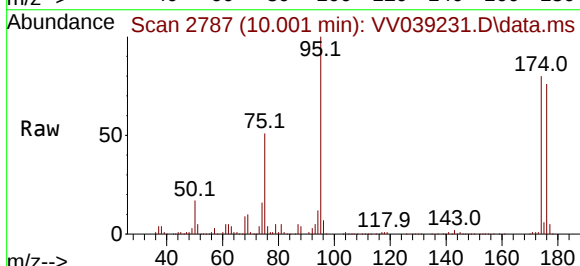
Tgt Ion: 75 Resp: 174092

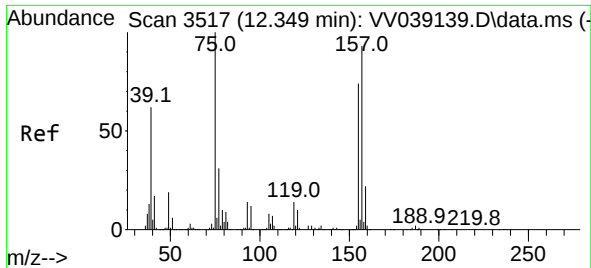
Ion Ratio Lower Upper

75 100

53 0.2 72.5 108.7#

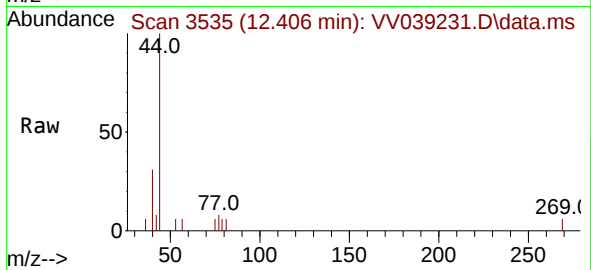
89 0.0 37.2 55.8#





#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: Below Cal  
 RT: 12.406 min Scan# 31  
 Delta R.T. 0.057 min  
 Lab File: VV039231.D  
 Acq: 29 Sep 2025 15:01

Instrument :  
 MSVOA\_V  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 20     |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 155      | 0.0   | 38.6  | 115.8# |
| 157      | 0.0   | 49.5  | 148.3# |

