

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV111325\  
 Data File : VV039377.D  
 Acq On : 13 Nov 2025 12:18  
 Operator : SY/MD  
 Sample : VV1113WBL01  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VV1113WBL01

Quant Time: Nov 14 05:44:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\82V111125W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 14 05:42:56 2025  
 Response via : Initial Calibration

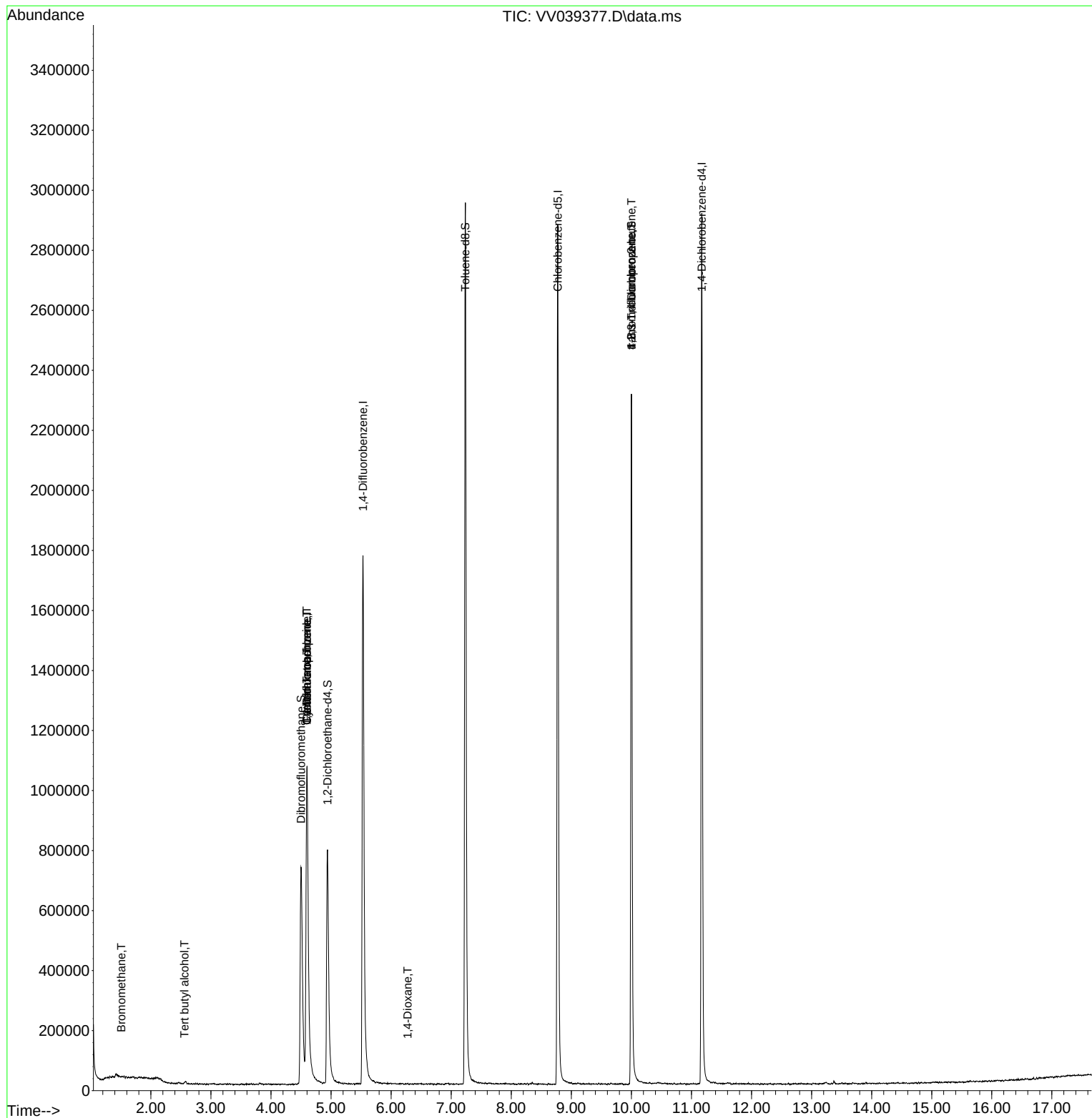
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 4.600  | 168   | 1018512  | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 5.532  | 114   | 1727019  | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 8.773  | 117   | 1601518  | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.172 | 152   | 800337   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 4.940  | 65    | 715960   | 56.980    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 81 - 118 | Recovery  | =      | 113.960% |
| 35) Dibromofluoromethane      | 4.503  | 113   | 617096   | 46.587    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 119 | Recovery  | =      | 93.180%  |
| 50) Toluene-d8                | 7.236  | 98    | 2059968  | 47.061    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 89 - 112 | Recovery  | =      | 94.120%  |
| 62) 4-Bromofluorobenzene      | 10.001 | 95    | 724347   | 43.066    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 85 - 114 | Recovery  | =      | 86.140%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           |        | Qvalue   |
| 5) Bromomethane               | 1.510  | 94    | 923      | 0.221     | ug/l   | 85       |
| 11) Tert butyl alcohol        | 2.561  | 59    | 814      | 0.605     | ug/l # | 73       |
| 13) Acrolein                  | 2.015  | 56    | 168      | Below Cal | #      | 15       |
| 16) Acetone                   | 2.124  | 43    | 645      | Below Cal | #      | 55       |
| 17) Carbon Disulfide          | 2.252  | 76    | 2378     | Below Cal | #      | 86       |
| 20) Methylene Chloride        | 2.461  | 84    | 265      | Below Cal | #      | 64       |
| 31) Cyclohexane               | 4.596  | 56    | 17354    | 1.589     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 4.596  | 75    | 70796    | 6.205     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 4.596  | 117   | 95715    | 5.648     | ug/l # | 17       |
| 49) 1,4-Dioxane               | 6.275  | 88    | 311      | 1.857     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 10.001 | 75    | 355830   | 28.644    | ug/l # | 55       |
| 81) trans-1,4-Dichloro-2-b... | 10.001 | 75    | 355830   | 76.784    | ug/l # | 10       |
| -----                         |        |       |          |           |        |          |

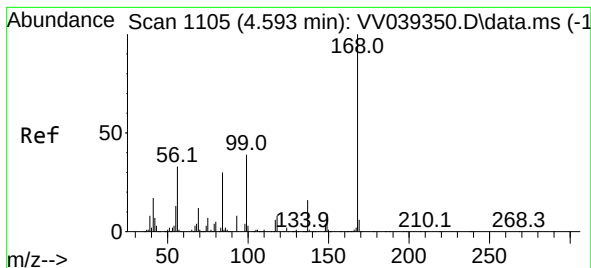
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV111325\  
Data File : VV039377.D  
Acq On : 13 Nov 2025 12:18  
Operator : SY/MD  
Sample : VV1113WBL01  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VV1113WBL01

Quant Time: Nov 14 05:44:38 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\82V111125W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 14 05:42:56 2025  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 1105

Delta R.T. 0.007 min

Lab File: VV039377.D

Acq: 13 Nov 2025 12:18

Instrument :

MSVOA\_V

ClientSampleId :

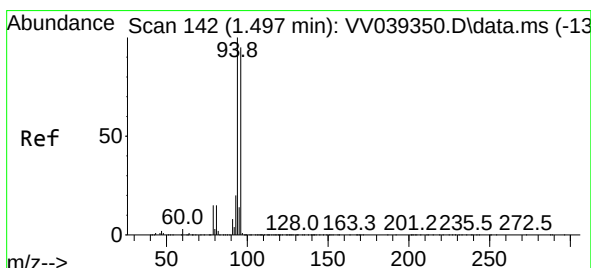
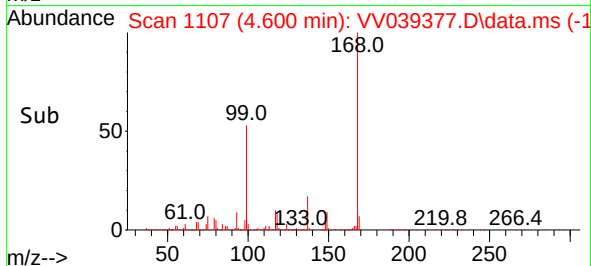
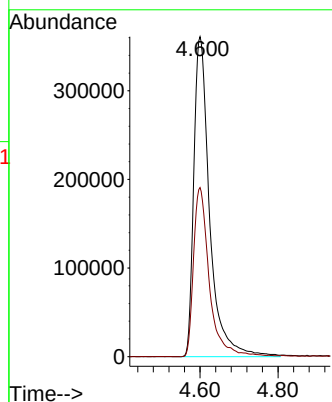
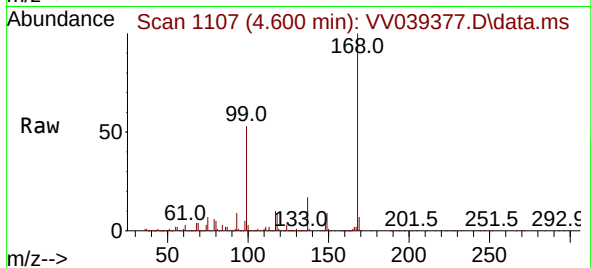
VV1113WBL01

Tgt Ion:168 Resp: 1018512

Ion Ratio Lower Upper

168 100

99 52.9 41.2 61.8



#5

Bromomethane

Concen: 0.221 ug/l

RT: 1.510 min Scan# 146

Delta R.T. 0.013 min

Lab File: VV039377.D

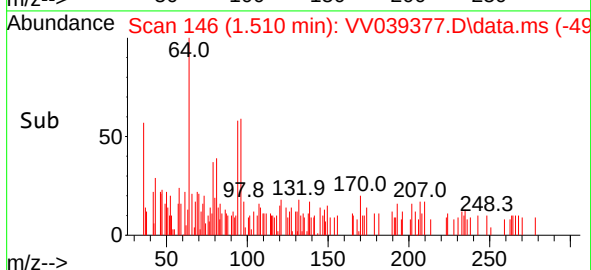
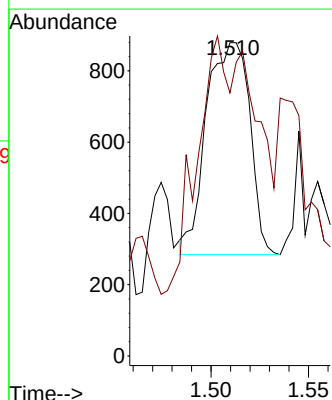
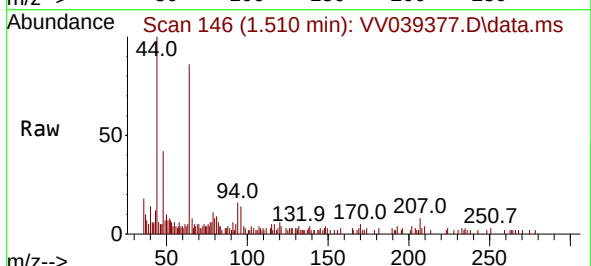
Acq: 13 Nov 2025 12:18

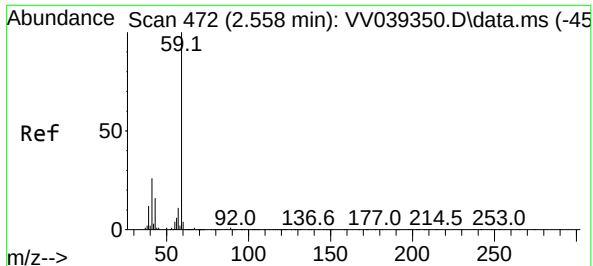
Tgt Ion: 94 Resp: 923

Ion Ratio Lower Upper

94 100

96 79.7 75.6 113.4





#11

Tert butyl alcohol

Concen: 0.605 ug/l

RT: 2.561 min Scan# 41

Delta R.T. 0.003 min

Lab File: VV039377.D

Acq: 13 Nov 2025 12:18

Instrument :

MSVOA\_V

ClientSampleId :

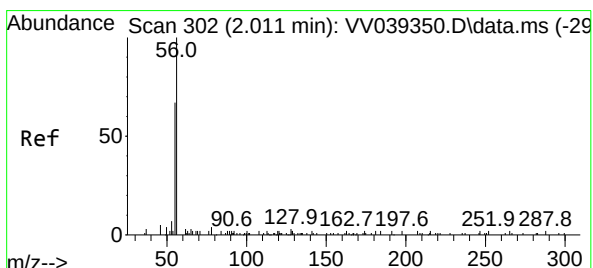
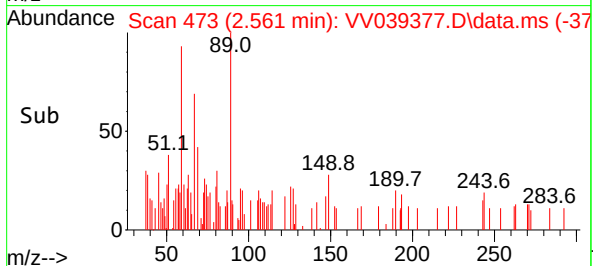
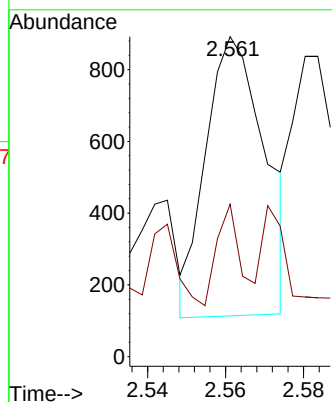
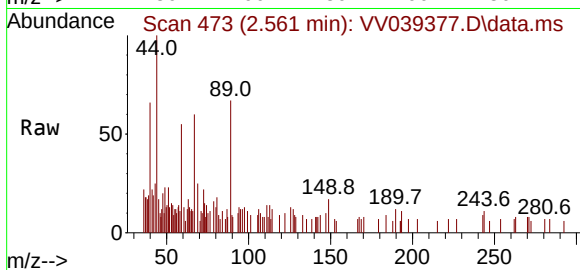
VV1113WBL01

Tgt Ion: 59 Resp: 814

Ion Ratio Lower Upper

59 100

57 20.1 8.0 12.0#



#13

Acrolein

Concen: Below Cal

RT: 2.015 min Scan# 303

Delta R.T. 0.004 min

Lab File: VV039377.D

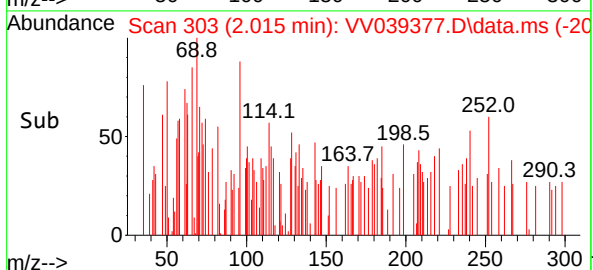
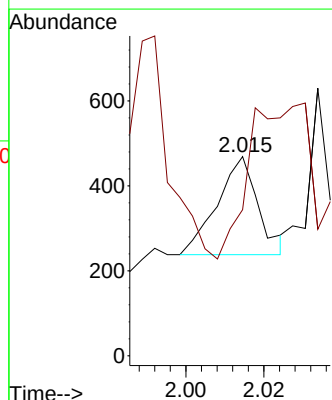
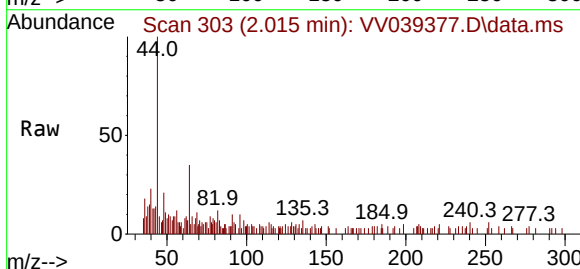
Acq: 13 Nov 2025 12:18

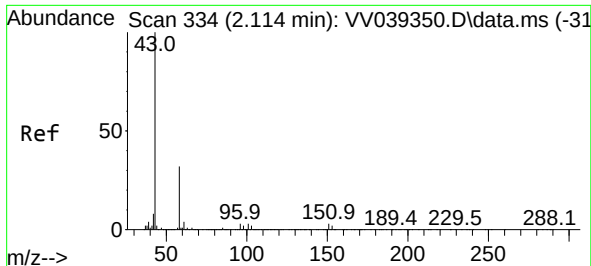
Tgt Ion: 56 Resp: 168

Ion Ratio Lower Upper

56 100

55 0.0 55.2 82.8#

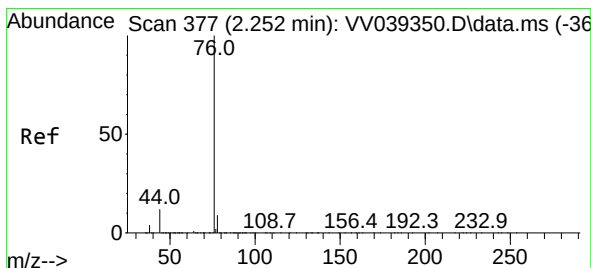
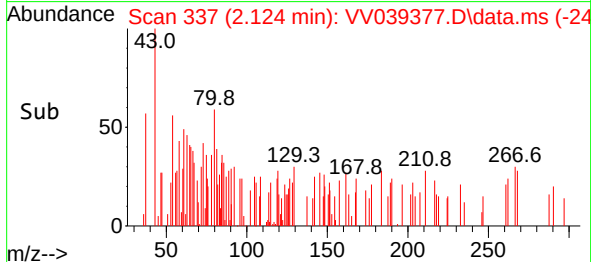
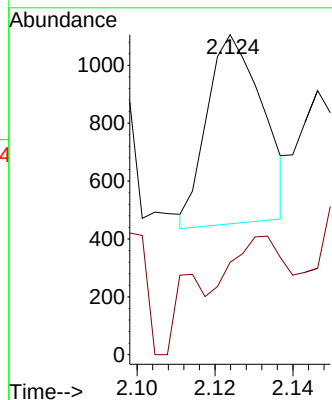
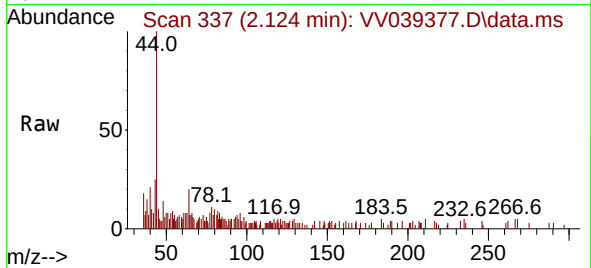




#16  
Acetone  
Concen: Below Cal  
RT: 2.124 min Scan# 311  
Delta R.T. 0.010 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

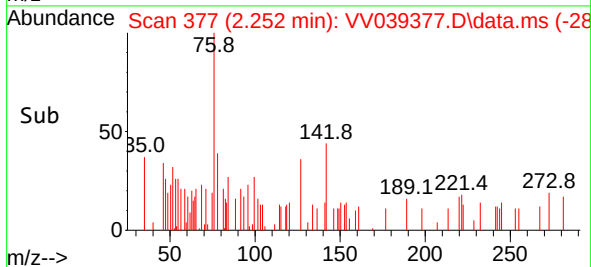
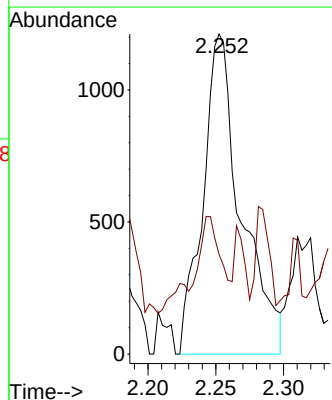
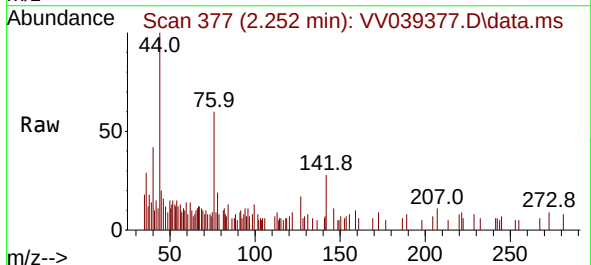
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV1113WBL01

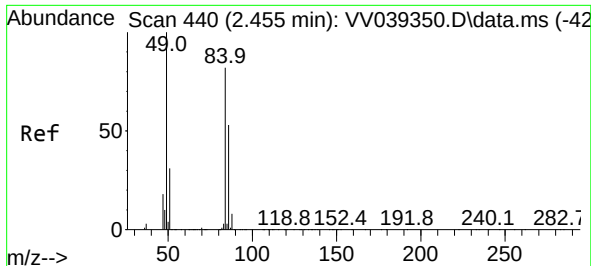
Tgt Ion: 43 Resp: 645  
Ion Ratio Lower Upper  
43 100  
58 7.1 25.5 38.3#



#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 2.252 min Scan# 377  
Delta R.T. 0.000 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

Tgt Ion: 76 Resp: 2378  
Ion Ratio Lower Upper  
76 100  
78 14.4 7.4 11.0#

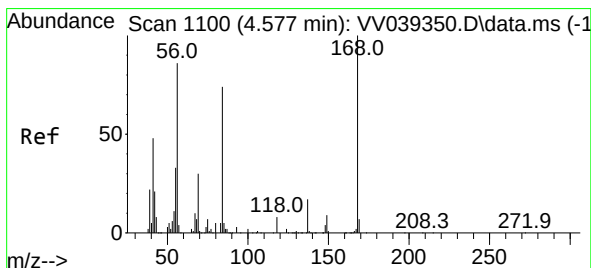
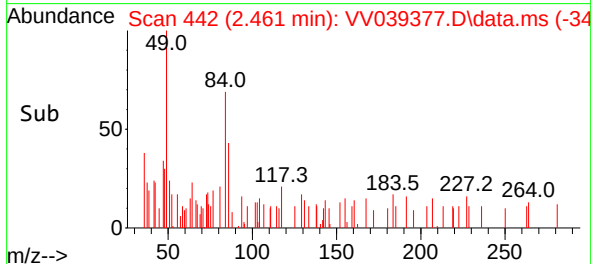
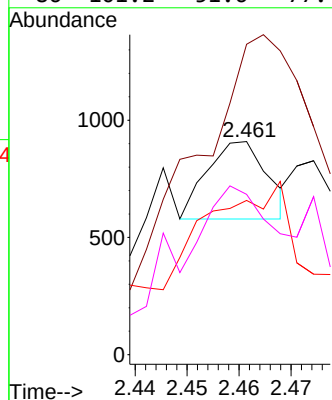
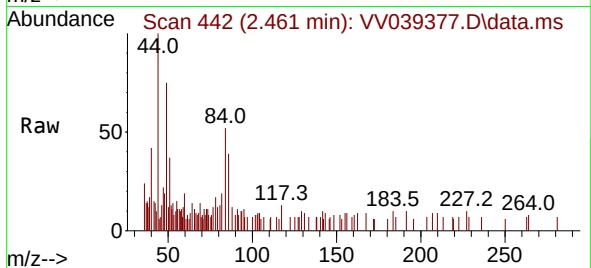




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.461 min Scan# 440  
Delta R.T. 0.006 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

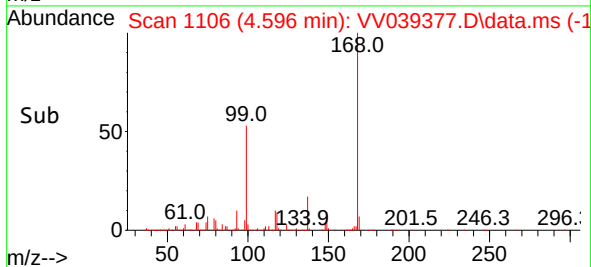
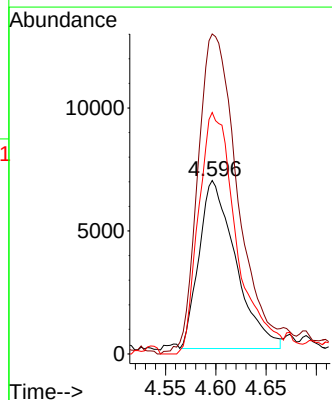
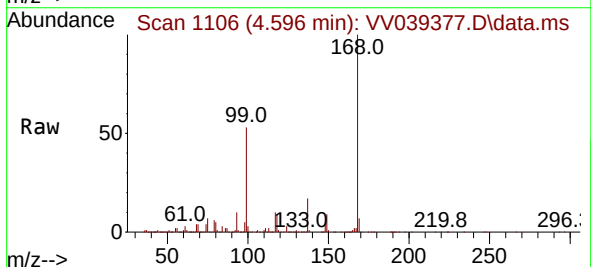
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV1113WBL01

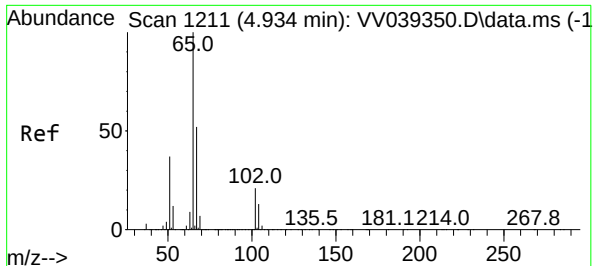
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 265    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 148.8 | 97.8  | 146.8# |
| 51       | 73.6  | 30.2  | 45.4#  |
| 86       | 101.2 | 51.6  | 77.4#  |



#31  
Cyclohexane  
Concen: 1.589 ug/l  
RT: 4.596 min Scan# 1106  
Delta R.T. 0.019 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 17354  |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 181.1 | 27.7  | 41.5#  |
| 84       | 141.6 | 69.4  | 104.2# |





#33

1,2-Dichloroethane-d4

Concen: 56.980 ug/l

RT: 4.940 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039377.D

Acq: 13 Nov 2025 12:18

Instrument :

MSVOA\_V

ClientSampleId :

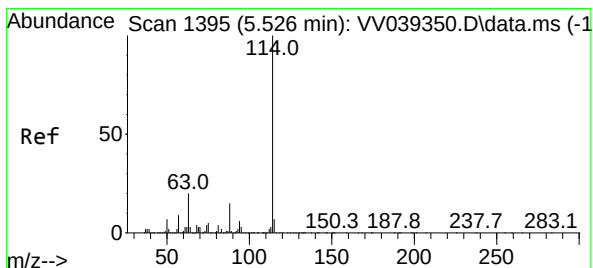
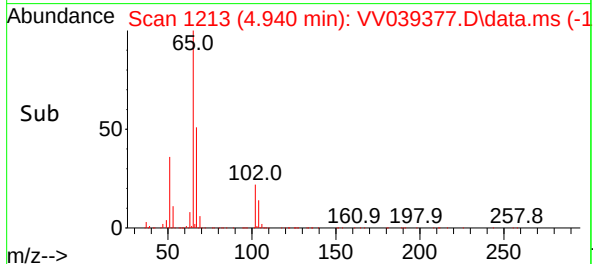
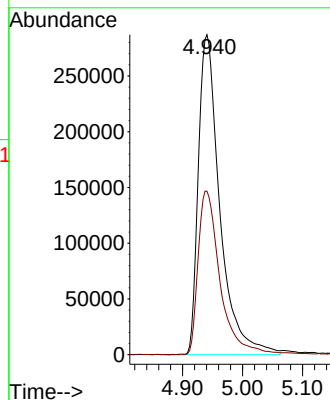
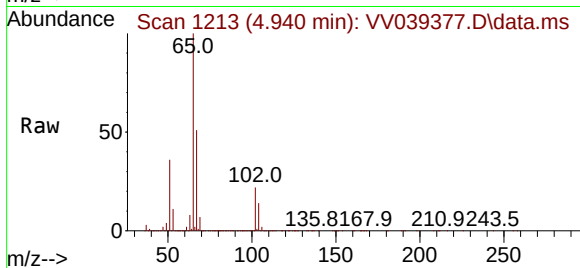
VV1113WBL01

Tgt Ion: 65 Resp: 715960

Ion Ratio Lower Upper

65 100

67 52.4 0.0 105.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.006 min

Lab File: VV039377.D

Acq: 13 Nov 2025 12:18

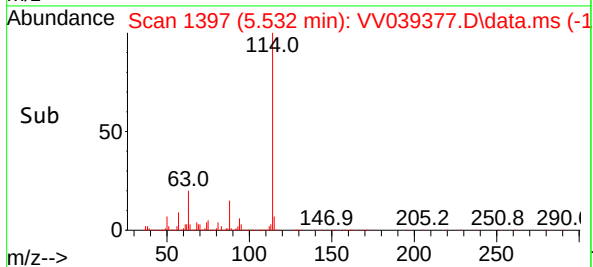
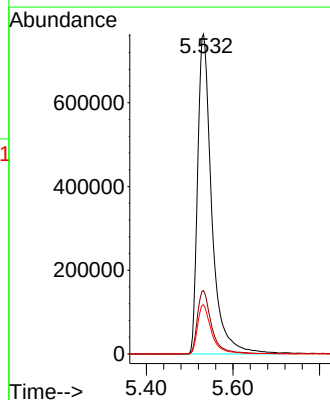
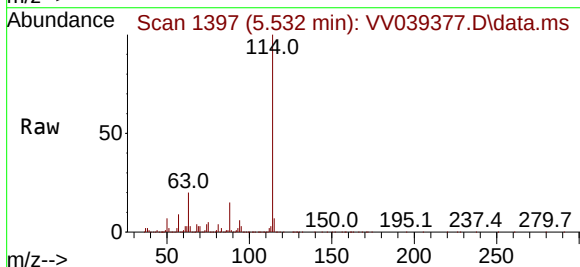
Tgt Ion: 114 Resp: 1727019

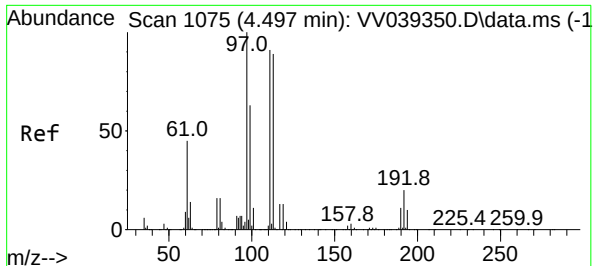
Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

88 15.4 0.0 30.2

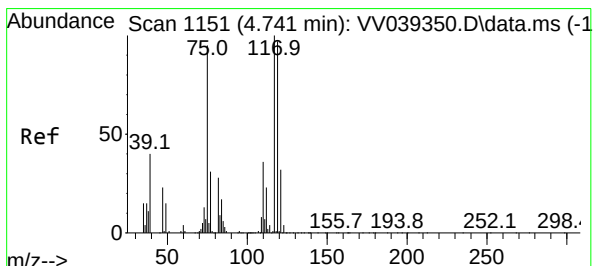
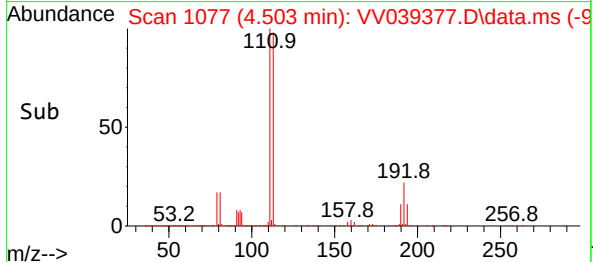
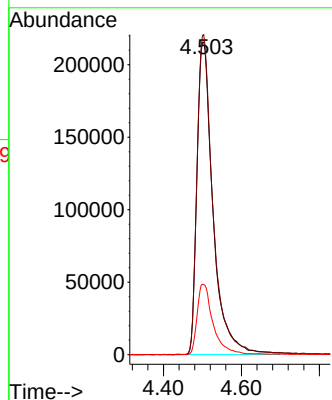
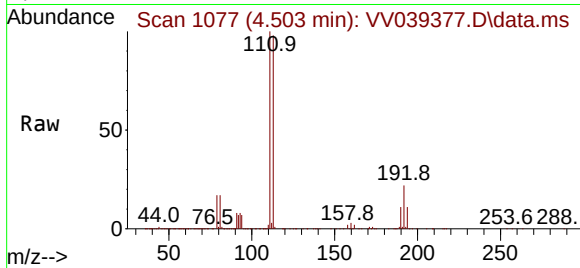




#35  
Dibromofluoromethane  
Concen: 46.587 ug/l  
RT: 4.503 min Scan# 1106  
Delta R.T. 0.006 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

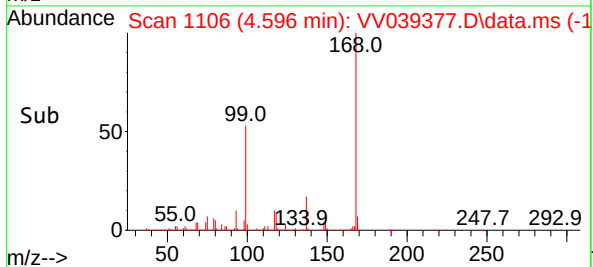
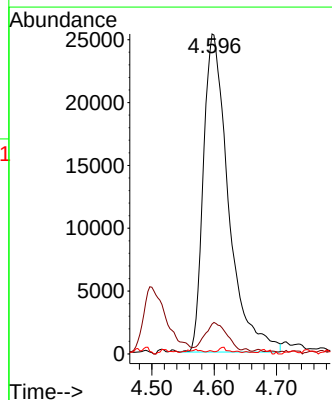
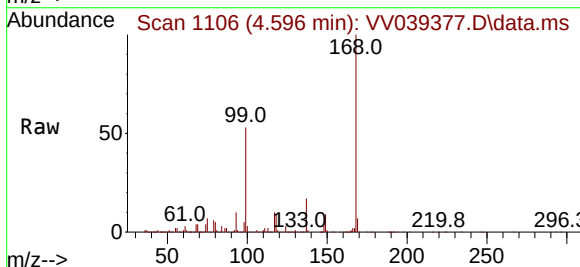
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV1113WBL01

Tgt Ion:113 Resp: 617096  
Ion Ratio Lower Upper  
113 100  
111 101.0 82.6 124.0  
192 22.2 17.8 26.8

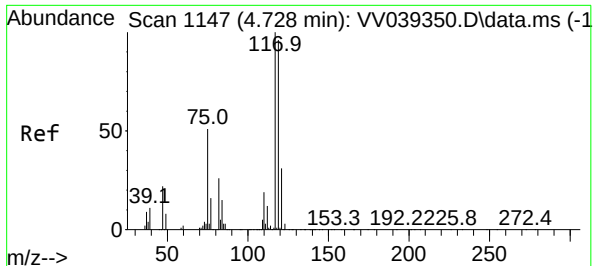


#36  
1,1-Dichloropropene  
Concen: 6.205 ug/l  
RT: 4.596 min Scan# 1106  
Delta R.T. -0.145 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

Tgt Ion: 75 Resp: 70796  
Ion Ratio Lower Upper  
75 100  
110 7.6 18.1 54.4#  
77 0.1 24.0 36.0#



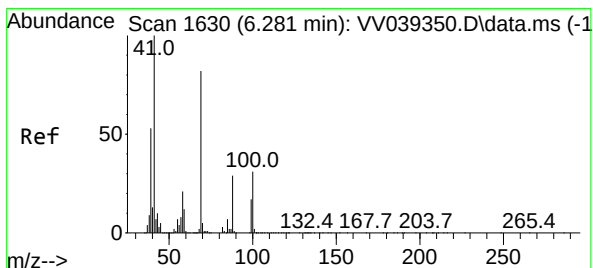
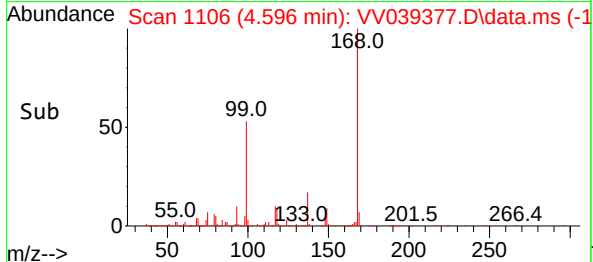
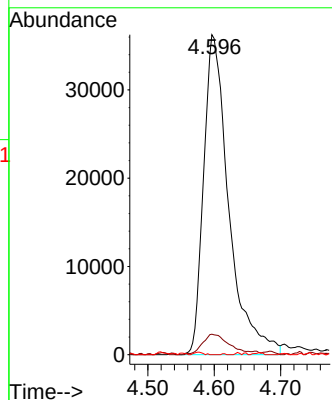
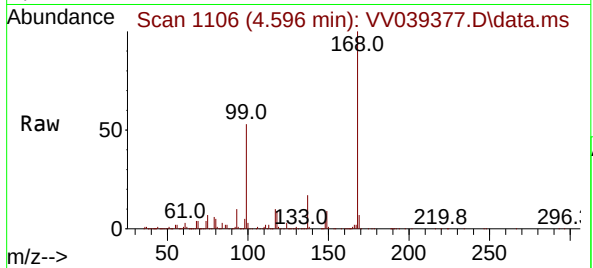




#38  
Carbon Tetrachloride  
Concen: 5.648 ug/l  
RT: 4.596 min Scan# 1147  
Delta R.T. -0.132 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

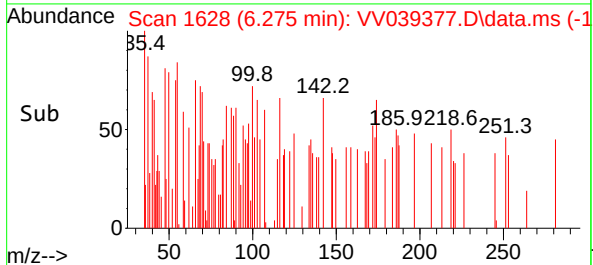
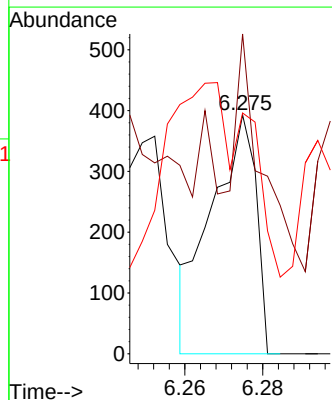
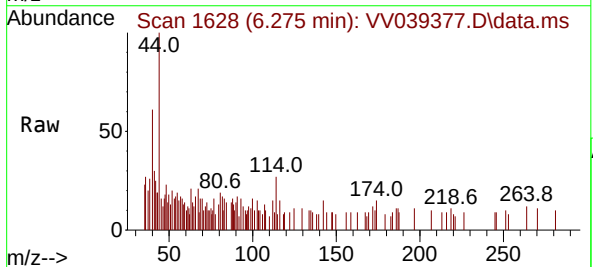
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV1113WBL01

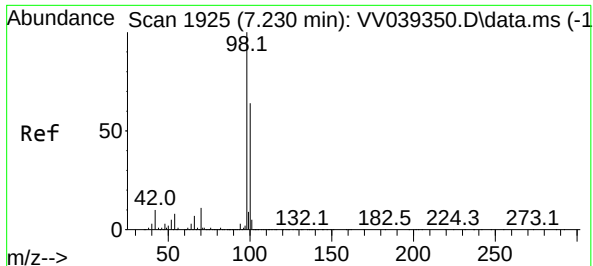
Tgt Ion:117 Resp: 95715  
Ion Ratio Lower Upper  
117 100  
119 6.4 76.1 114.1#  
121 0.0 25.0 37.4#



#49  
1,4-Dioxane  
Concen: 1.857 ug/l  
RT: 6.275 min Scan# 1628  
Delta R.T. -0.006 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

Tgt Ion: 88 Resp: 311  
Ion Ratio Lower Upper  
88 100  
43 63.7 26.6 40.0#  
58 252.7 55.4 83.0#

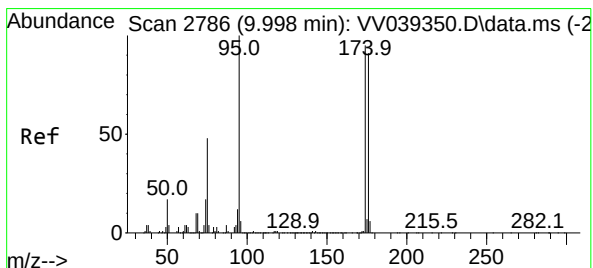
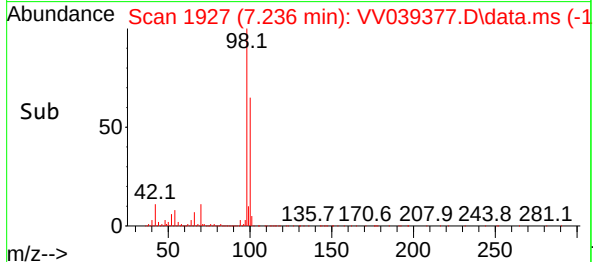
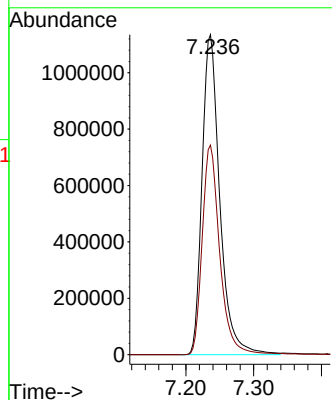
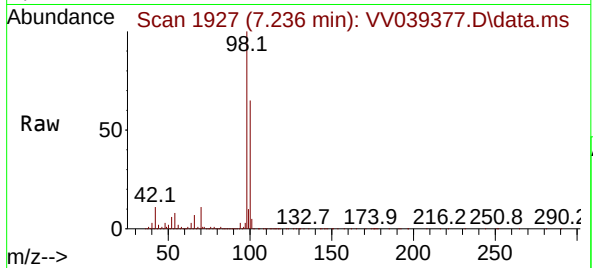




#50  
Toluene-d8  
Concen: 47.061 ug/l  
RT: 7.236 min Scan# 1925  
Delta R.T. 0.006 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

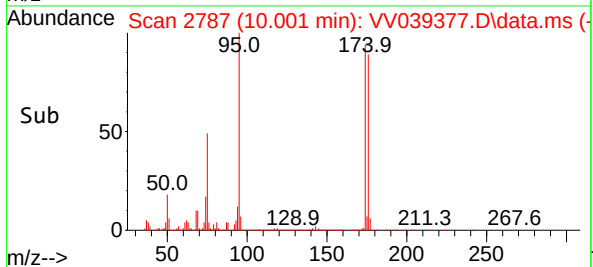
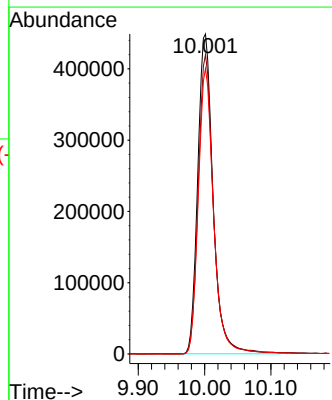
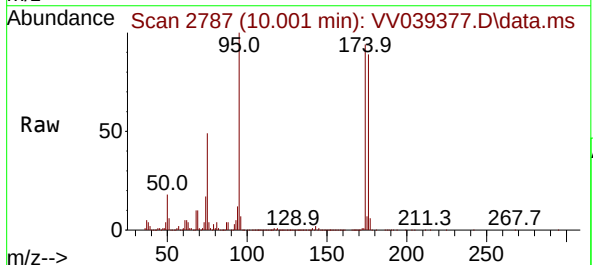
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV1113WBL01

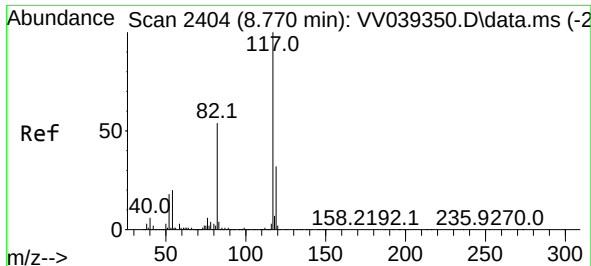
Tgt Ion: 98 Resp: 2059968  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.8 79.2



#62  
4-Bromofluorobenzene  
Concen: 43.066 ug/l  
RT: 10.001 min Scan# 2787  
Delta R.T. 0.003 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

Tgt Ion: 95 Resp: 724347  
Ion Ratio Lower Upper  
95 100  
174 92.7 0.0 187.6  
176 89.3 0.0 180.2

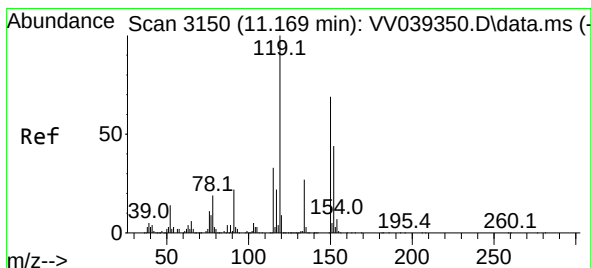
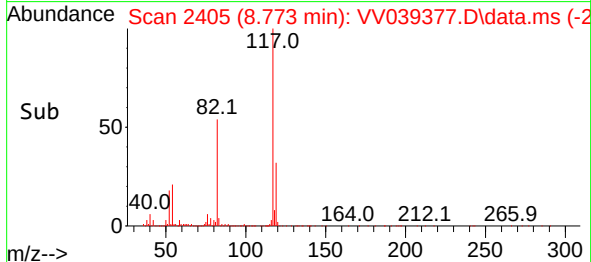
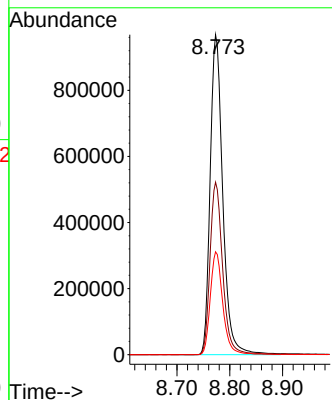
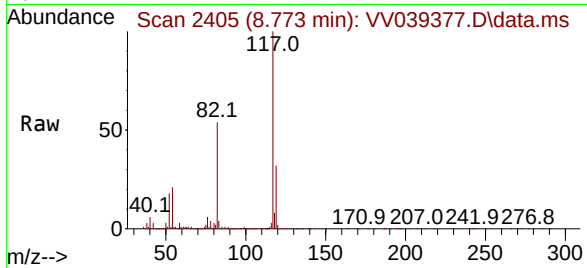




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 8.773 min Scan# 2405  
Delta R.T. 0.003 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

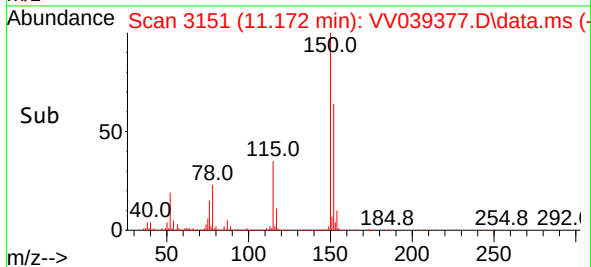
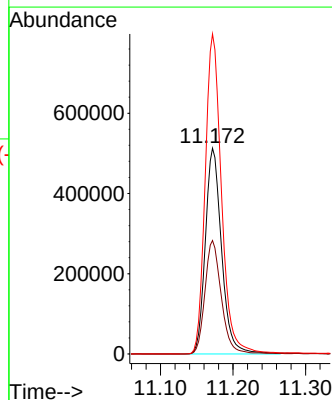
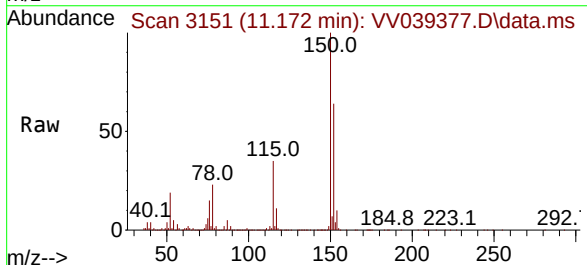
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV1113WBL01

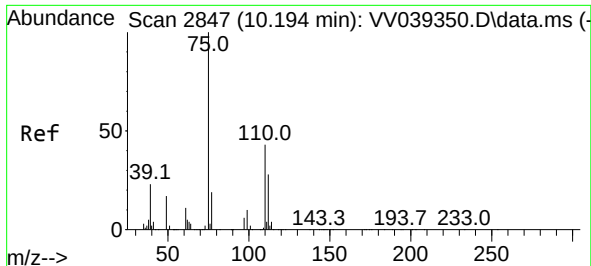
Tgt Ion:117 Resp: 1601518  
Ion Ratio Lower Upper  
117 100  
82 53.9 42.9 64.3  
119 32.2 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.172 min Scan# 3151  
Delta R.T. 0.003 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

Tgt Ion:152 Resp: 800337  
Ion Ratio Lower Upper  
152 100  
115 55.5 37.3 111.9  
150 155.9 0.0 340.4

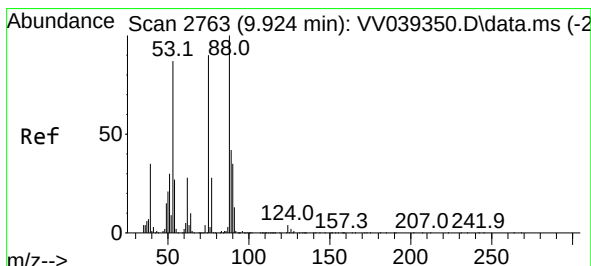
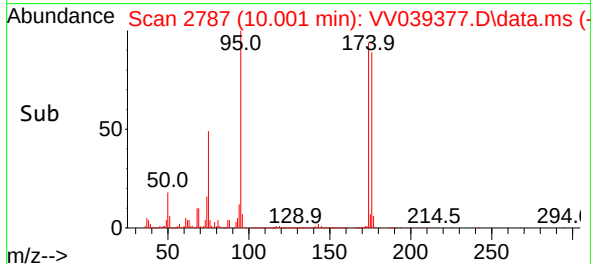
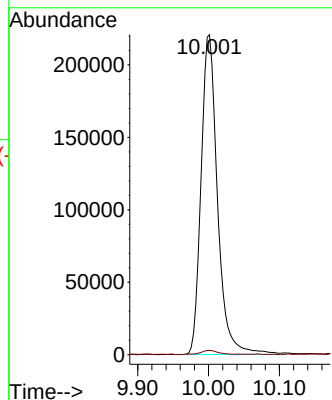
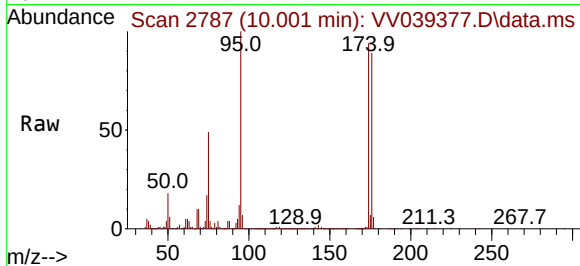




#76  
1,2,3-Trichloropropane  
Concen: 28.644 ug/l  
RT: 10.001 min Scan# 2787  
Delta R.T. -0.193 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

Instrument :  
MSVOA\_V  
ClientSampleId :  
VV1113WBL01

Tgt Ion: 75 Resp: 355830  
Ion Ratio Lower Upper  
75 100  
77 1.4 11.8 35.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.784 ug/l  
RT: 10.001 min Scan# 2787  
Delta R.T. 0.077 min  
Lab File: VV039377.D  
Acq: 13 Nov 2025 12:18

Tgt Ion: 75 Resp: 355830  
Ion Ratio Lower Upper  
75 100  
53 0.3 79.0 118.6#  
89 0.0 40.4 60.6#

