

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV110525\  
 Data File : VV039329.D  
 Acq On : 05 Nov 2025 12:06  
 Operator : SY/MD  
 Sample : VV1105MBL01  
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Nov 06 00:11:20 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\82V100725W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 08 05:01:26 2025  
 Response via : Initial Calibration

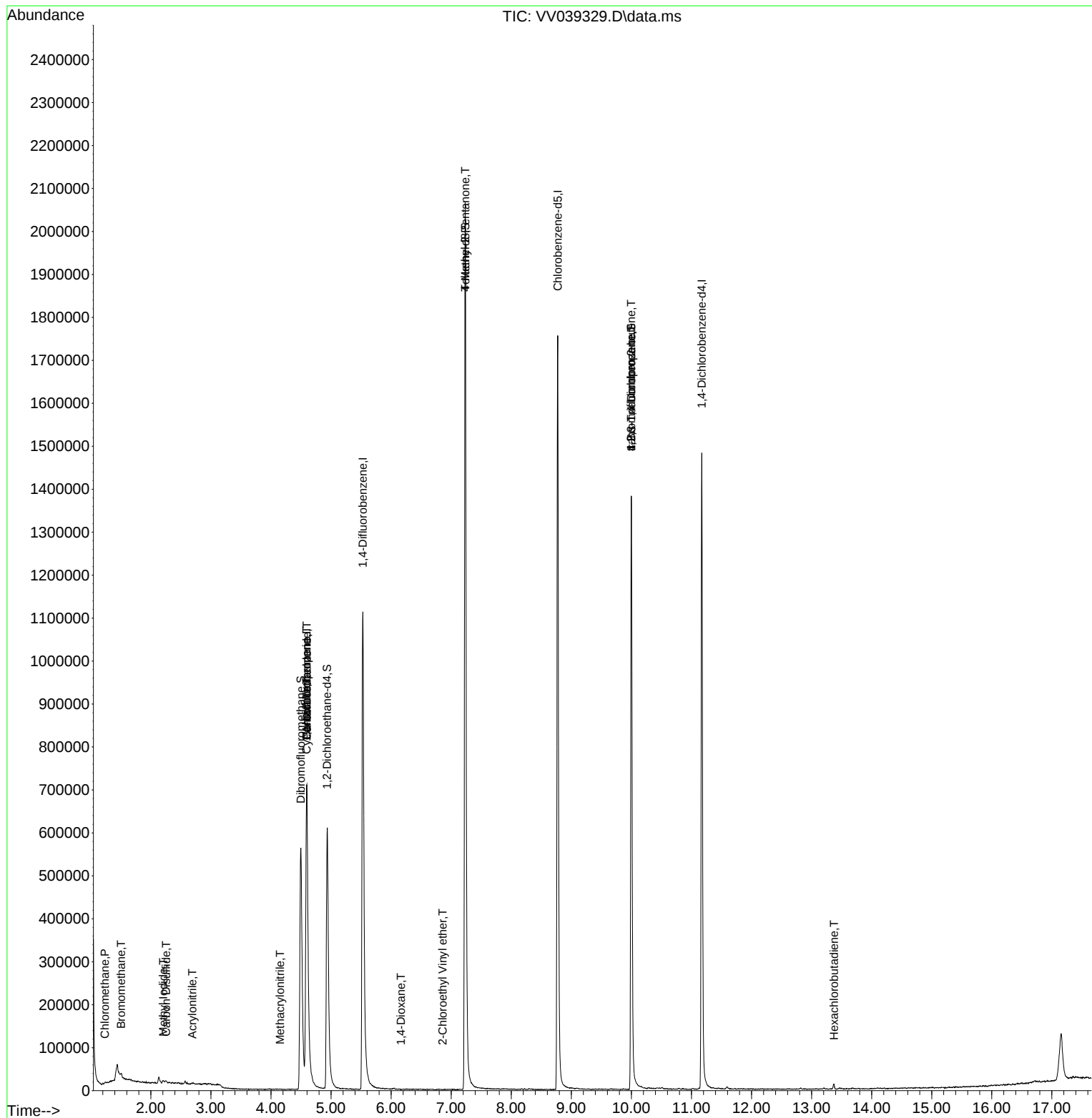
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 4.596          | 168  | 625324               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 5.529          | 114  | 1124533              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 8.773          | 117  | 1012799              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.172         | 152  | 400012               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 4.934          | 65   | 546730               | 61.531    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 81 - 118 |      | Recovery = 123.060%# |           |        |          |
| 35) Dibromofluoromethane      | 4.497          | 113  | 485888               | 54.837    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 119 |      | Recovery = 109.680%  |           |        |          |
| 50) Toluene-d8                | 7.233          | 98   | 1487870              | 49.360    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 89 - 112 |      | Recovery = 98.720%   |           |        |          |
| 62) 4-Bromofluorobenzene      | 9.998          | 95   | 472259               | 43.992    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 85 - 114 |      | Recovery = 87.980%   |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      |                      |           |        | Qvalue   |
| 3) Chloromethane              | 1.233          | 50   | 1917                 | 0.233     | ug/l # | 56       |
| 5) Bromomethane               | 1.503          | 94   | 4332                 | 0.711     | ug/l   | 98       |
| 6) Chloroethane               | 1.641          | 64   | 619                  | Below Cal | #      | 48       |
| 10) Methyl Iodide             | 2.204          | 142  | 10328                | 1.396     | ug/l # | 87       |
| 13) Acrolein                  | 2.014          | 56   | 1130                 | Below Cal |        | 91       |
| 15) Acrylonitrile             | 2.693          | 53   | 2091                 | 0.409     | ug/l # | 88       |
| 16) Acetone                   | 2.114          | 43   | 367                  | Below Cal | #      | 60       |
| 17) Carbon Disulfide          | 2.252          | 76   | 5207                 | 0.219     | ug/l # | 78       |
| 20) Methylene Chloride        | 2.458          | 84   | 1003                 | Below Cal | #      | 88       |
| 31) Cyclohexane               | 4.590          | 56   | 14003                | 1.196     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 4.593          | 75   | 51534                | 4.631     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 4.596          | 117  | 66085                | 4.874     | ug/l # | 18       |
| 41) Methacrylonitrile         | 4.153          | 41   | 187                  | 1.724     | ug/l # | 55       |
| 49) 1,4-Dioxane               | 6.162          | 88   | 64                   | 0.487     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 7.233          | 43   | 5758                 | 0.487     | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether | 6.857          | 63   | 54                   | 8.475     | ug/l # | 45       |
| 76) 1,2,3-Trichloropropane    | 9.998          | 75   | 230797               | 28.908    | ug/l # | 54       |
| 81) trans-1,4-Dichloro-2-b... | 9.998          | 75   | 230797               | 73.007    | ug/l # | 14       |
| 94) Hexachlorobutadiene       | 13.374         | 225  | 1665                 | 0.465     | ug/l   | 90       |
| -----                         |                |      |                      |           |        |          |

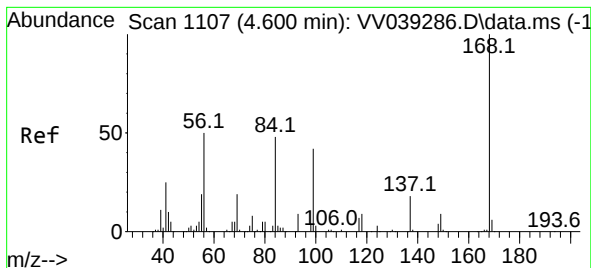
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VV1105MBL01  
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Nov 06 00:11:20 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\82V100725W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 08 05:01:26 2025  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.596 min Scan# 1106

Delta R.T. -0.004 min

Lab File: VV039329.D

Acq: 05 Nov 2025 12:06

Instrument :

MSVOA\_V

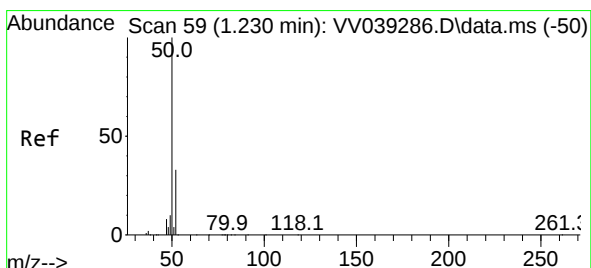
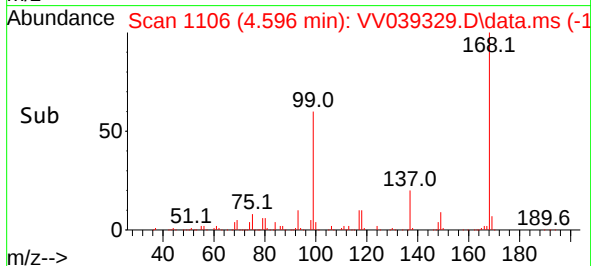
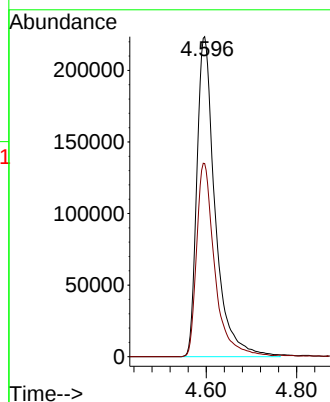
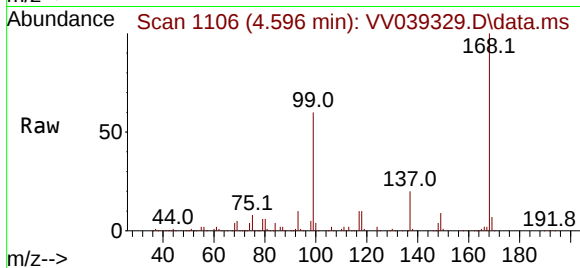
ClientSampleId :

Tgt Ion:168 Resp: 625324

Ion Ratio Lower Upper

168 100

99 60.3 46.6 70.0



#3

Chloromethane

Concen: 0.233 ug/l

RT: 1.233 min Scan# 60

Delta R.T. 0.003 min

Lab File: VV039329.D

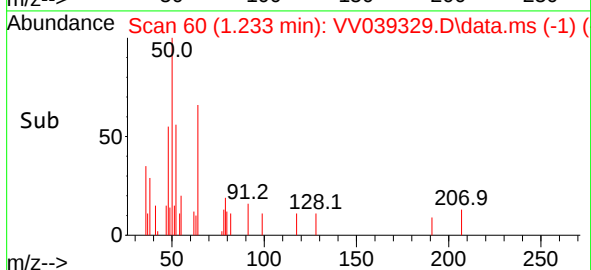
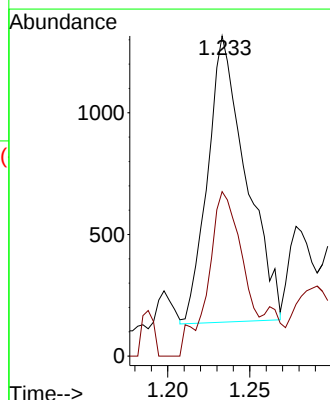
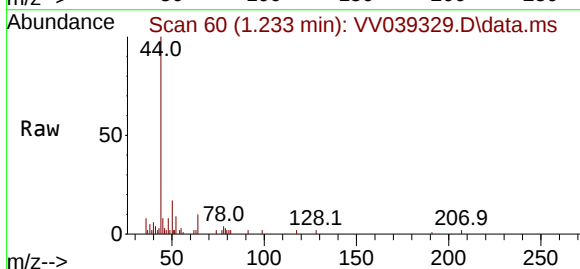
Acq: 05 Nov 2025 12:06

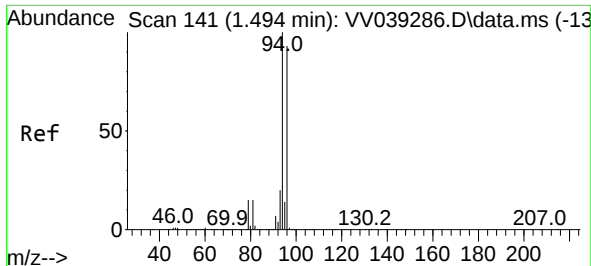
Tgt Ion: 50 Resp: 1917

Ion Ratio Lower Upper

50 100

52 57.9 26.6 39.8#

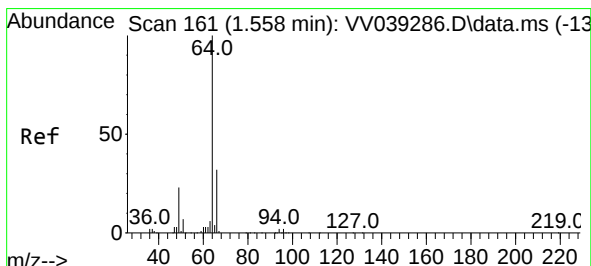
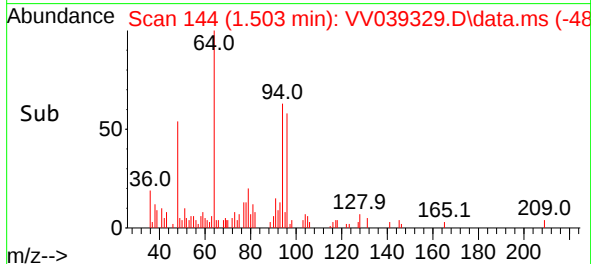
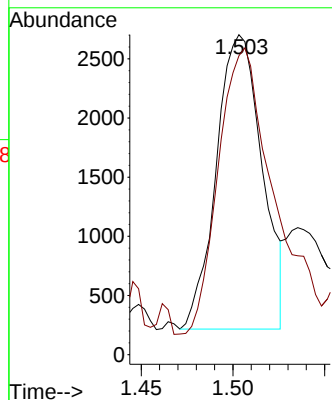
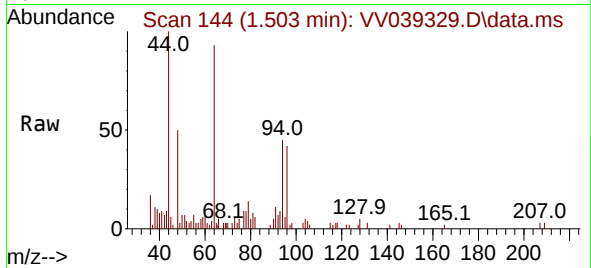




#5  
Bromomethane  
Concen: 0.711 ug/l  
RT: 1.503 min Scan# 141  
Delta R.T. 0.010 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

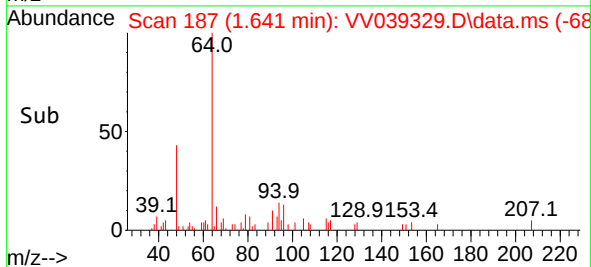
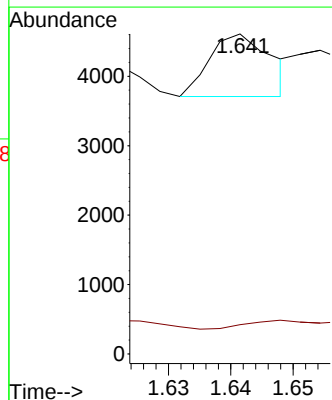
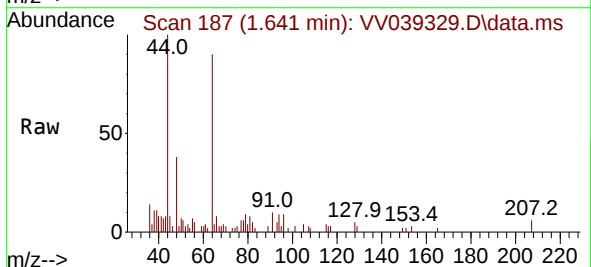
Instrument :  
MSVOA\_V  
ClientSampleId :

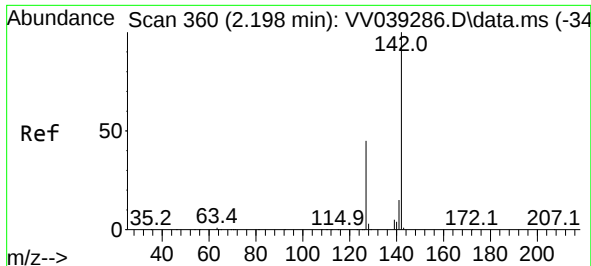
Tgt Ion: 94 Resp: 4332  
Ion Ratio Lower Upper  
94 100  
96 94.5 74.2 111.2



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.641 min Scan# 187  
Delta R.T. 0.084 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

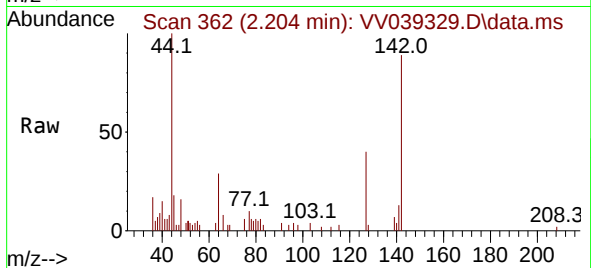
Tgt Ion: 64 Resp: 619  
Ion Ratio Lower Upper  
64 100  
66 3.3 25.7 38.5#



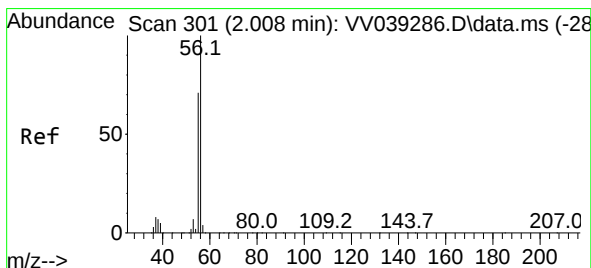
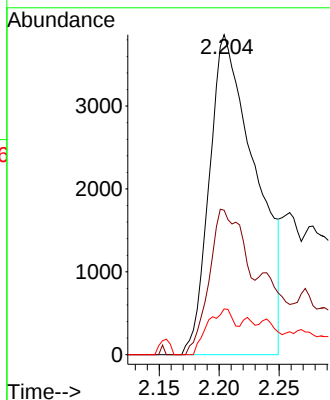
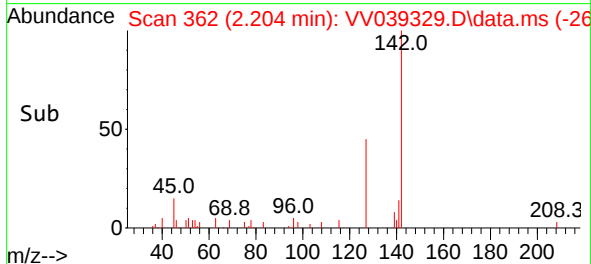


#10  
Methyl Iodide  
Concen: 1.396 ug/l  
RT: 2.204 min Scan# 303  
Delta R.T. 0.006 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

Instrument :  
MSVOA\_V  
ClientSampleId :

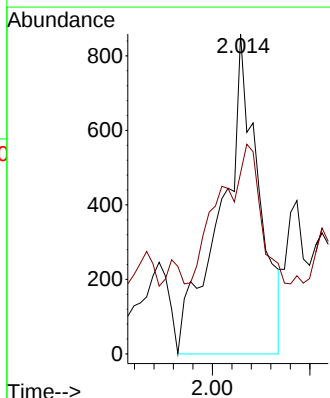
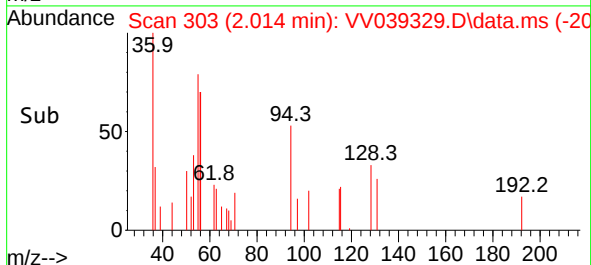
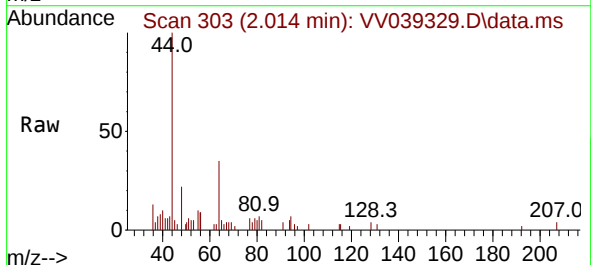


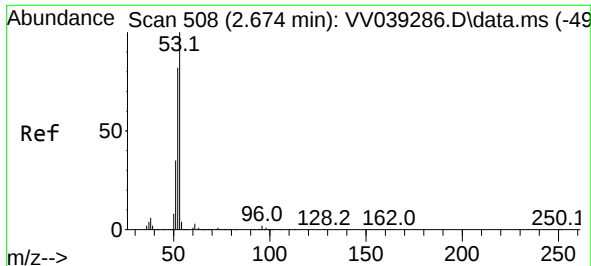
Tgt Ion:142 Resp: 10328  
Ion Ratio Lower Upper  
142 100  
127 36.2 35.5 53.3  
141 8.7 11.5 17.3#



#13  
Acrolein  
Concen: Below Cal  
RT: 2.014 min Scan# 303  
Delta R.T. 0.006 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

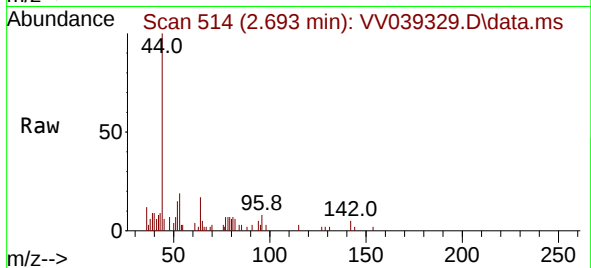
Tgt Ion: 56 Resp: 1130  
Ion Ratio Lower Upper  
56 100  
55 62.8 56.2 84.4



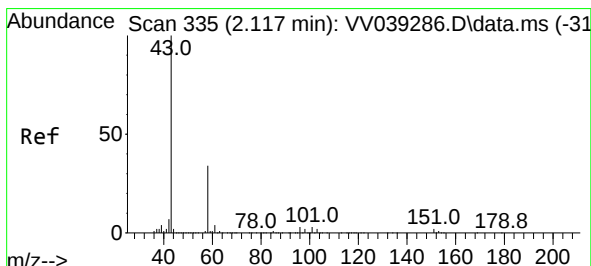
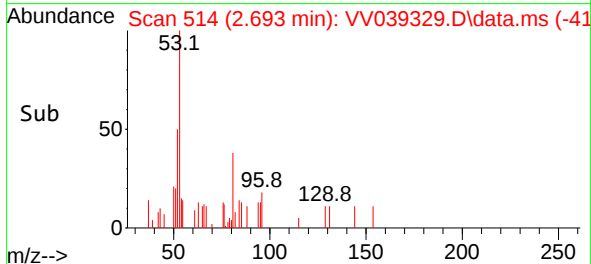
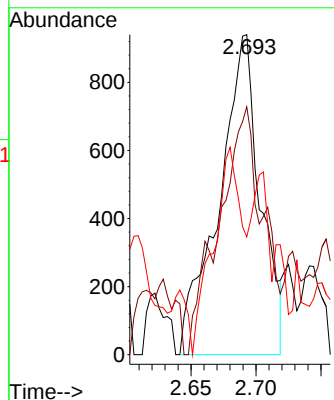


#15  
Acrylonitrile  
Concen: 0.409 ug/l  
RT: 2.693 min Scan# 51  
Delta R.T. 0.019 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

Instrument :  
MSVOA\_V  
ClientSampleId :

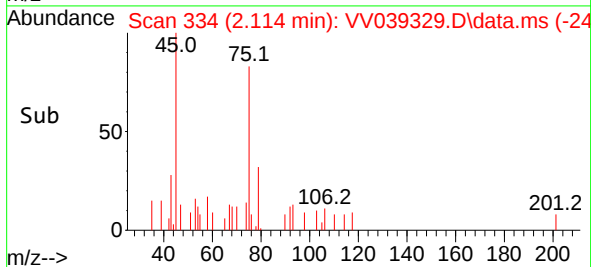
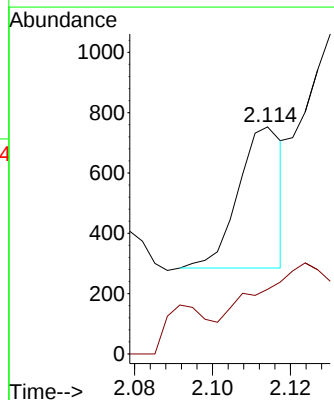
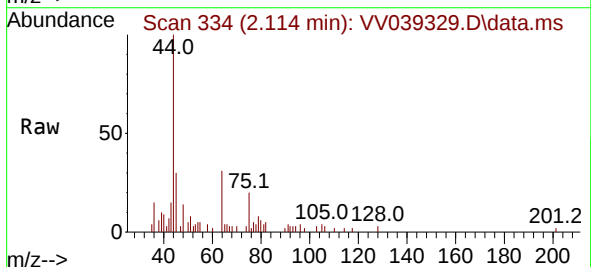


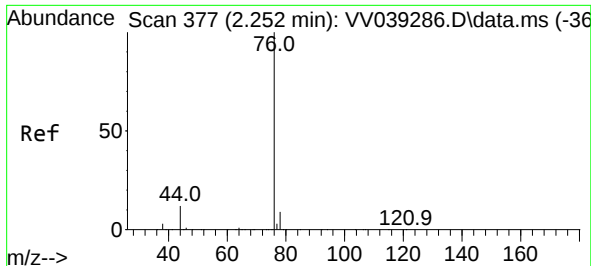
Tgt Ion: 53 Resp: 2091  
Ion Ratio Lower Upper  
53 100  
52 82.1 65.0 97.6  
51 12.3 27.9 41.9#



#16  
Acetone  
Concen: Below Cal  
RT: 2.114 min Scan# 334  
Delta R.T. -0.003 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

Tgt Ion: 43 Resp: 367  
Ion Ratio Lower Upper  
43 100  
58 11.1 27.5 41.3#

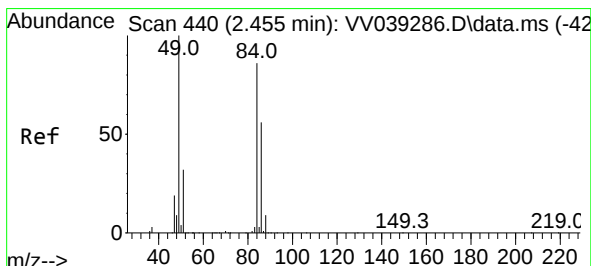
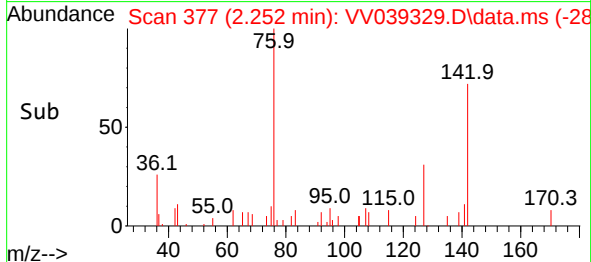
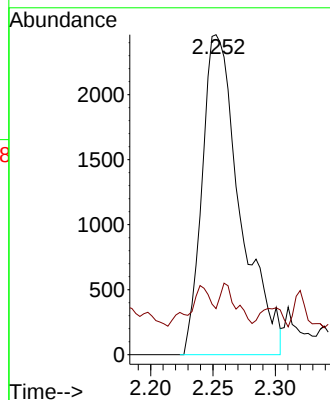
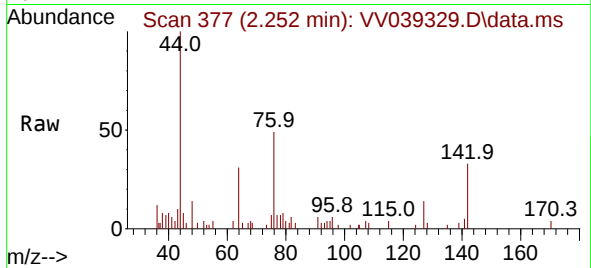




#17  
Carbon Disulfide  
Concen: 0.219 ug/l  
RT: 2.252 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

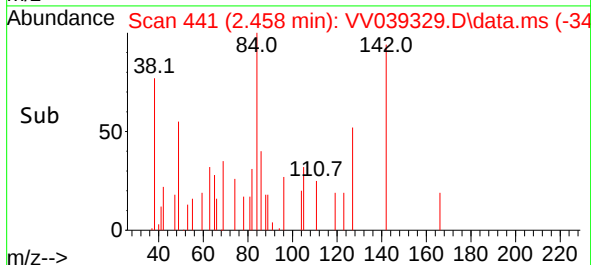
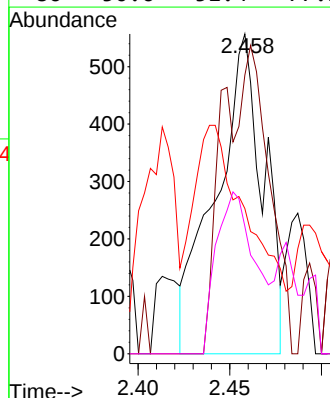
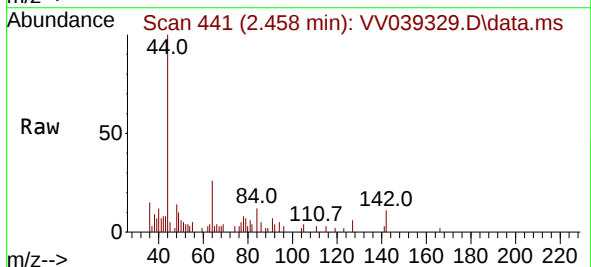
Instrument :  
MSVOA\_V  
ClientSampleId :

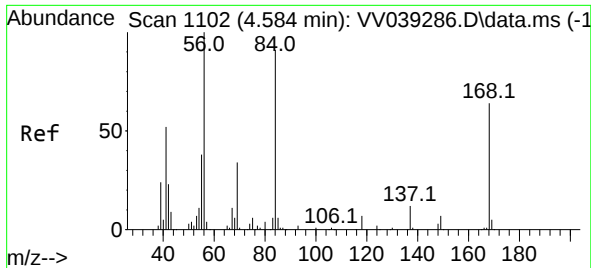
Tgt Ion: 76 Resp: 5207  
Ion Ratio Lower Upper  
76 100  
78 1.2 7.4 11.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.458 min Scan# 441  
Delta R.T. 0.003 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

Tgt Ion: 84 Resp: 1003  
Ion Ratio Lower Upper  
84 100  
49 110.5 92.6 139.0  
51 23.7 29.6 44.4#  
86 50.6 51.4 77.2#

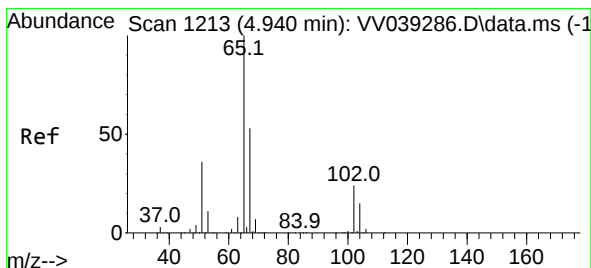
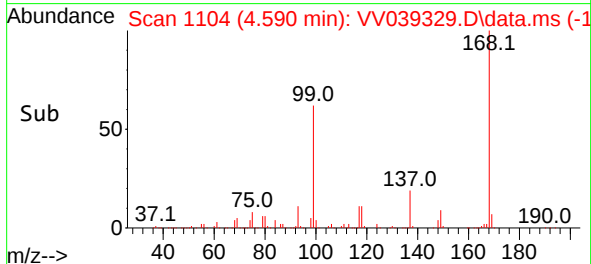
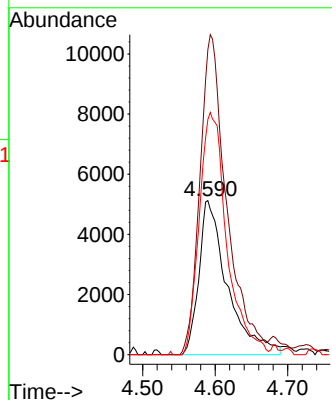
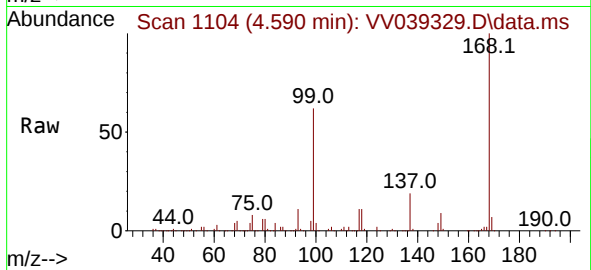




#31  
Cyclohexane  
Concen: 1.196 ug/l  
RT: 4.590 min Scan# 1102  
Delta R.T. 0.006 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

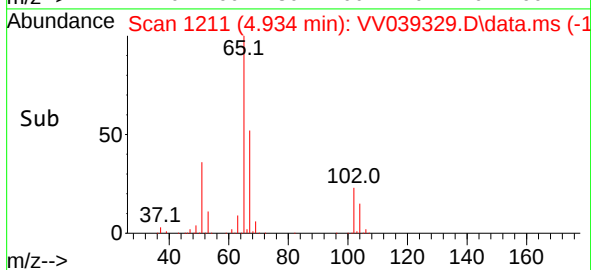
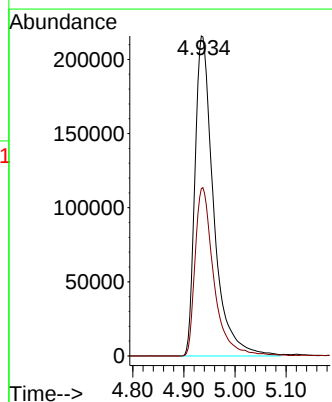
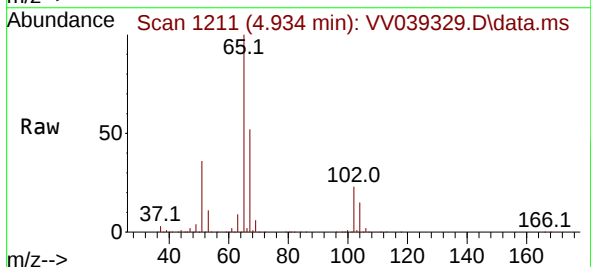
Instrument :  
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ClientSampleId :

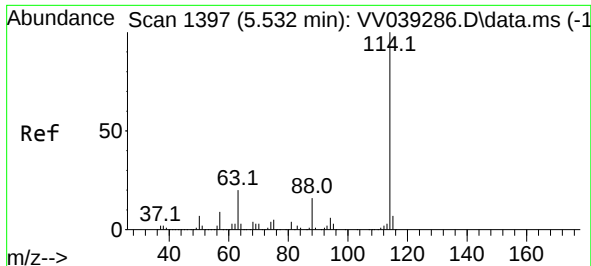
Tgt Ion: 56 Resp: 14003  
Ion Ratio Lower Upper  
56 100  
69 197.9 27.4 41.0#  
84 152.6 72.8 109.2#



#33  
1,2-Dichloroethane-d4  
Concen: 61.531 ug/l  
RT: 4.934 min Scan# 1211  
Delta R.T. -0.006 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

Tgt Ion: 65 Resp: 546730  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 108.4

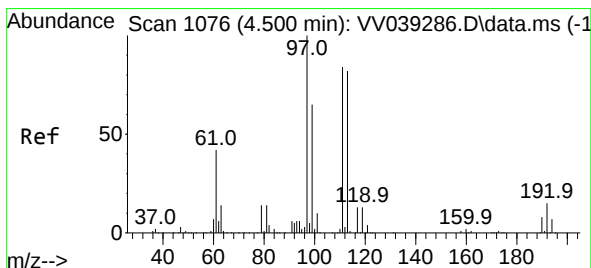
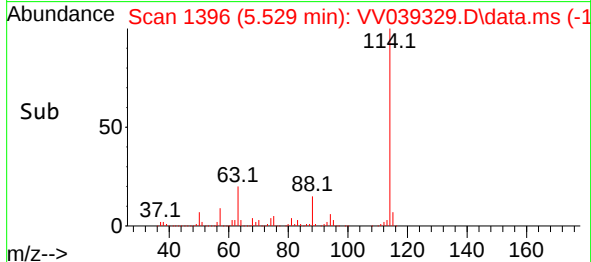
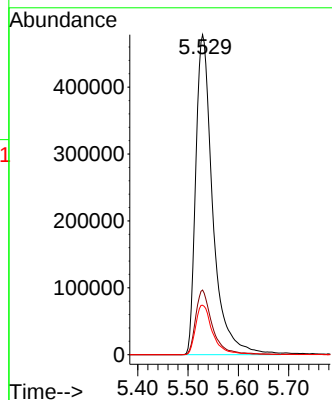
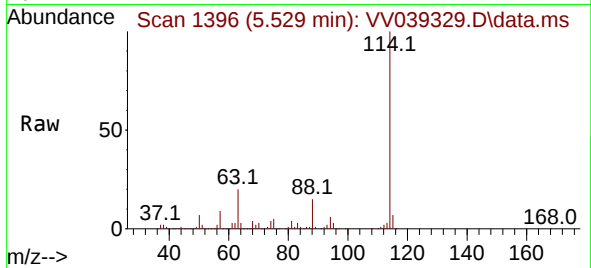




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.529 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

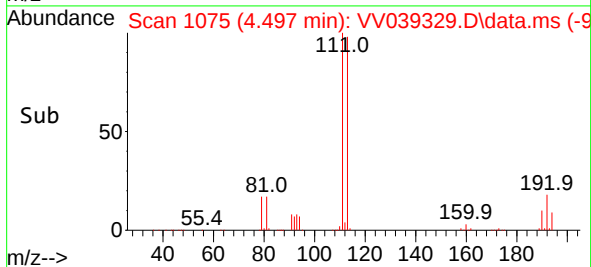
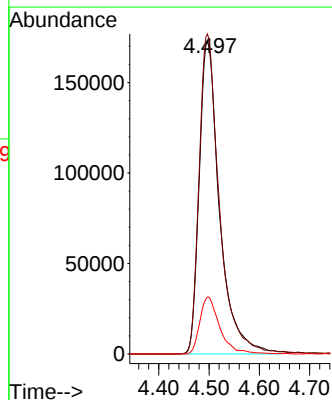
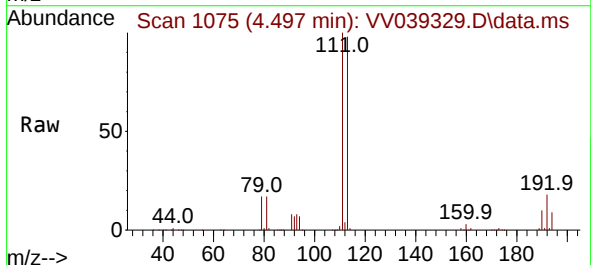
Instrument :  
MSVOA\_V  
ClientSampleId :

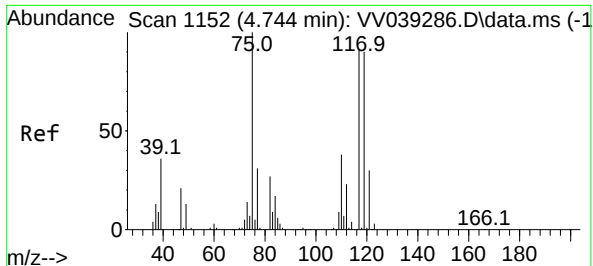
Tgt Ion:114 Resp: 1124533  
Ion Ratio Lower Upper  
114 100  
63 20.2 0.0 39.6  
88 15.5 0.0 31.6



#35  
Dibromofluoromethane  
Concen: 54.837 ug/l  
RT: 4.497 min Scan# 1075  
Delta R.T. -0.003 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

Tgt Ion:113 Resp: 485888  
Ion Ratio Lower Upper  
113 100  
111 101.4 82.0 123.0  
192 17.9 14.3 21.5

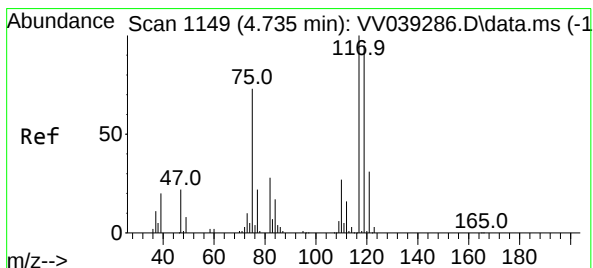
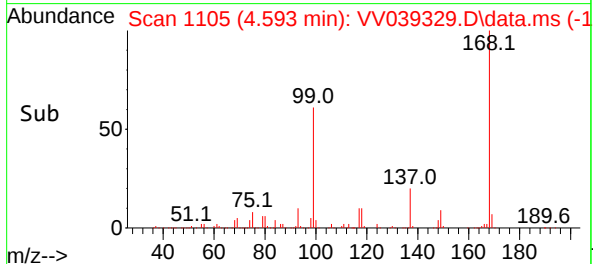
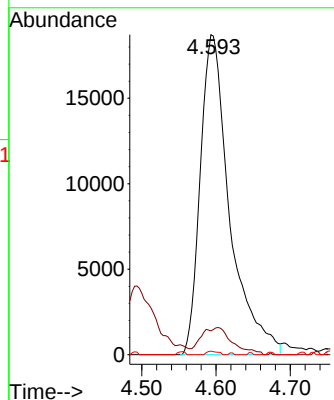
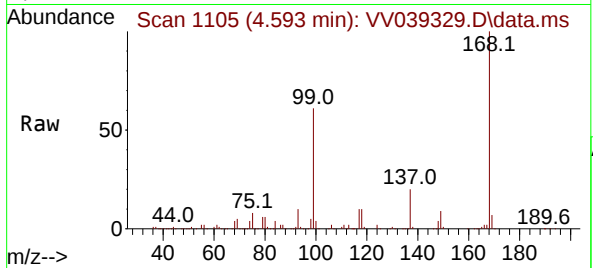




#36  
 1,1-Dichloropropene  
 Concen: 4.631 ug/l  
 RT: 4.593 min Scan# 1105  
 Delta R.T. -0.151 min  
 Lab File: VV039329.D  
 Acq: 05 Nov 2025 12:06

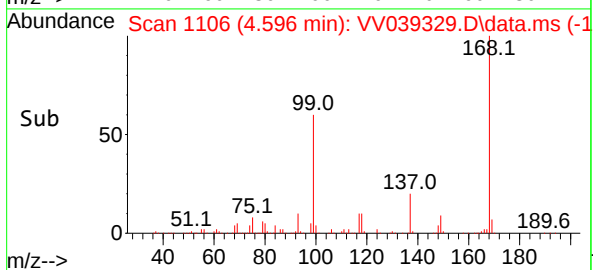
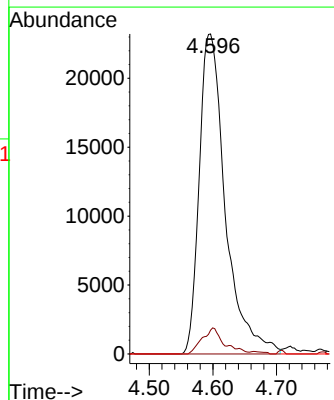
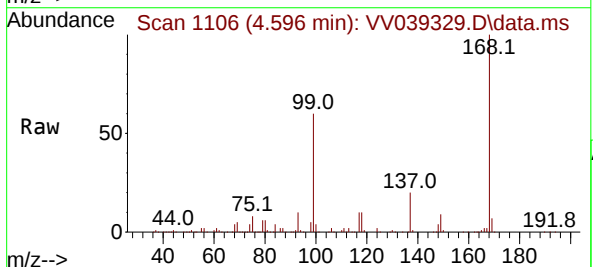
Instrument :  
 MSVOA\_V  
 ClientSampleId :

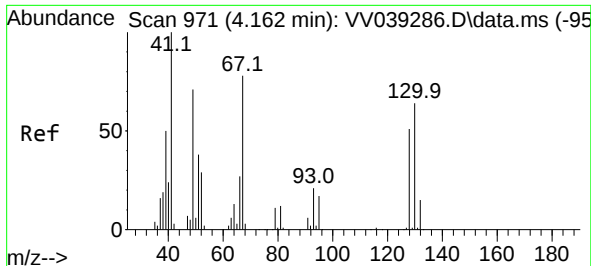
Tgt Ion: 75 Resp: 51534  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 18.9 56.7#  
 77 0.4 24.1 36.1#



#38  
 Carbon Tetrachloride  
 Concen: 4.874 ug/l  
 RT: 4.596 min Scan# 1106  
 Delta R.T. -0.138 min  
 Lab File: VV039329.D  
 Acq: 05 Nov 2025 12:06

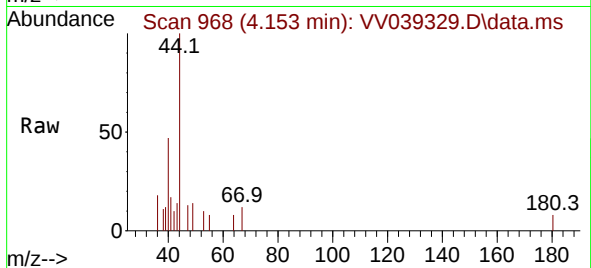
Tgt Ion: 117 Resp: 66085  
 Ion Ratio Lower Upper  
 117 100  
 119 7.4 75.9 113.9#  
 121 0.0 24.6 37.0#



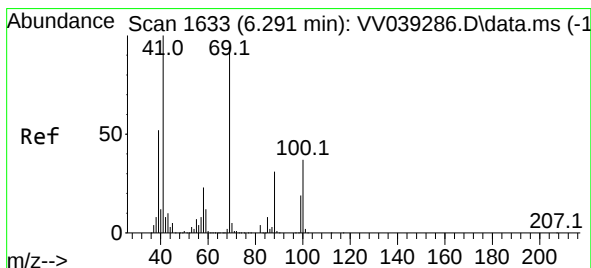
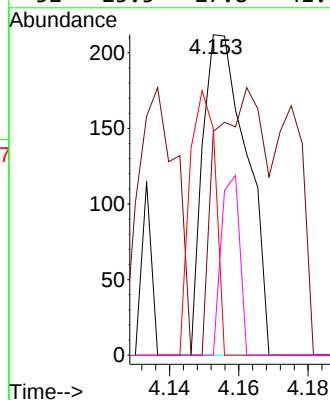
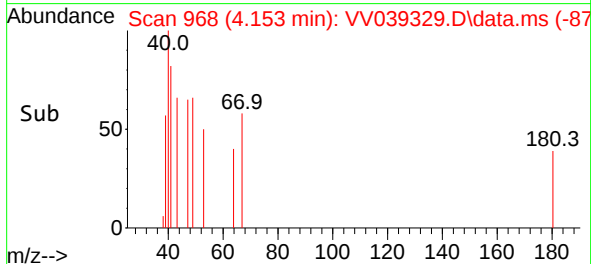


#41  
Methacrylonitrile  
Concen: 1.724 ug/l  
RT: 4.153 min Scan# 91  
Delta R.T. -0.010 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

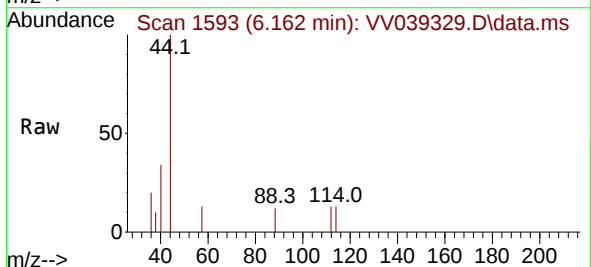
Instrument :  
MSVOA\_V  
ClientSampleId :



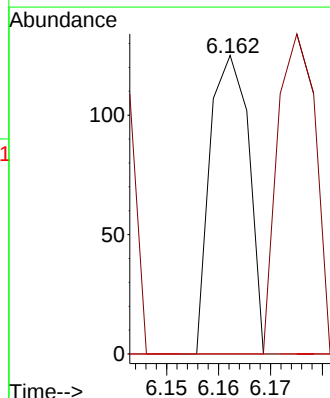
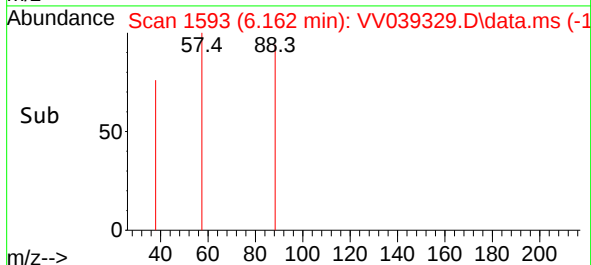
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 187   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 94.1     | 40.9 61.3#  |
| 67 47.6     | 73.1 109.7# |
| 52 23.5     | 27.8 41.6#  |

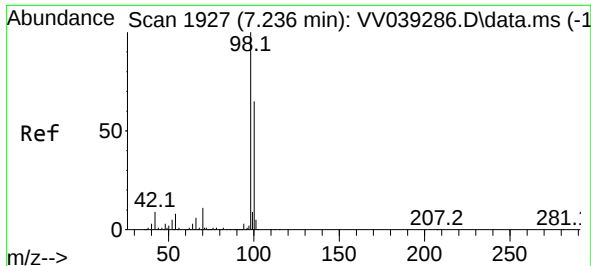


#49  
1,4-Dioxane  
Concen: 0.487 ug/l  
RT: 6.162 min Scan# 1593  
Delta R.T. -0.129 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06



|             |             |
|-------------|-------------|
| Tgt Ion: 88 | Resp: 64    |
| Ion Ratio   | Lower Upper |
| 88 100      |             |
| 43 106.3    | 24.1 36.1#  |
| 58 0.0      | 57.6 86.4#  |

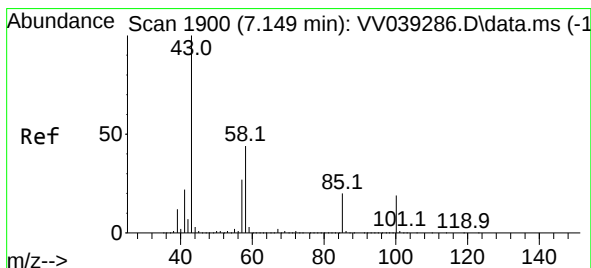
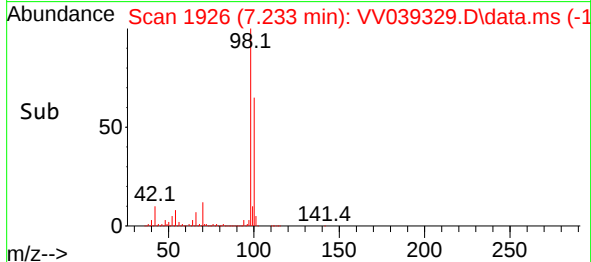
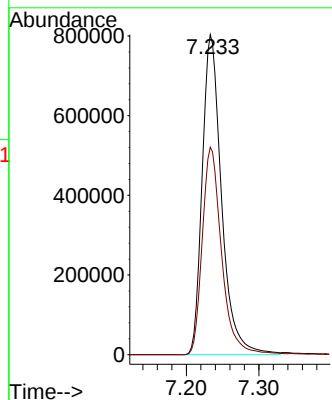
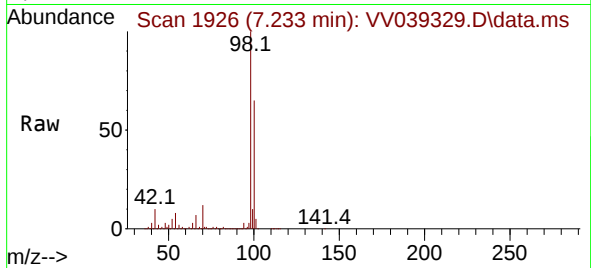




#50  
Toluene-d8  
Concen: 49.360 ug/l  
RT: 7.233 min Scan# 1927  
Delta R.T. -0.003 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

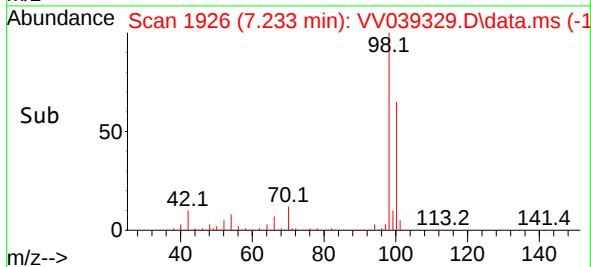
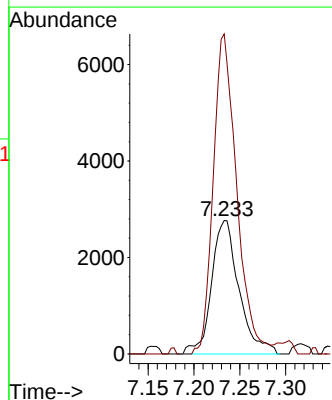
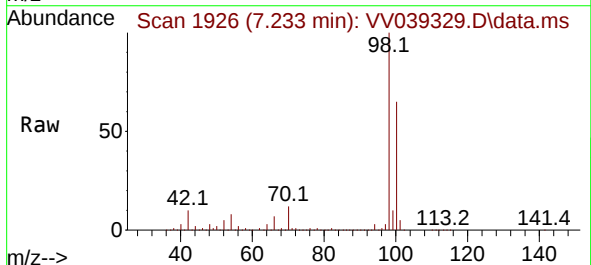
Instrument :  
MSVOA\_V  
ClientSampleId :

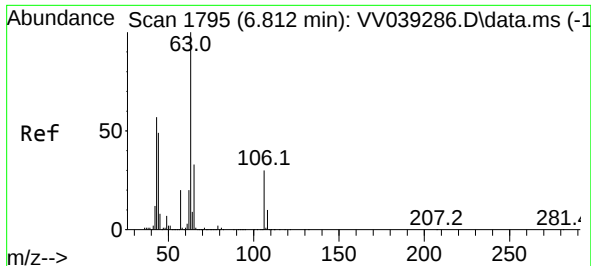
Tgt Ion: 98 Resp: 1487870  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.8 79.2



#51  
4-Methyl-2-Pentanone  
Concen: 0.487 ug/l  
RT: 7.233 min Scan# 1926  
Delta R.T. 0.084 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

Tgt Ion: 43 Resp: 5758  
Ion Ratio Lower Upper  
43 100  
58 204.6 34.2 51.4#

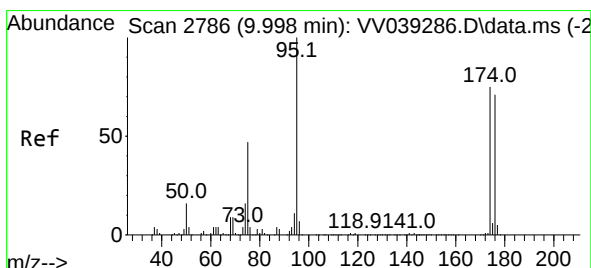
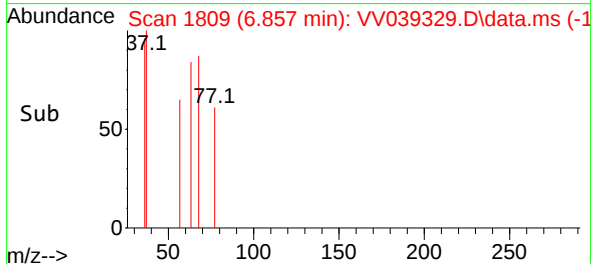
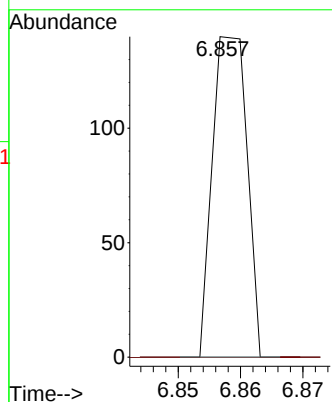
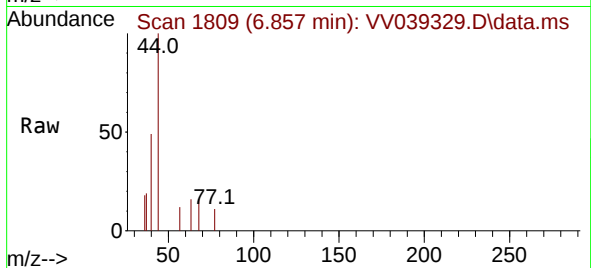




#58  
2-Chloroethyl Vinyl ether  
Concen: 8.475 ug/l  
RT: 6.857 min Scan# 1809  
Delta R.T. 0.045 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

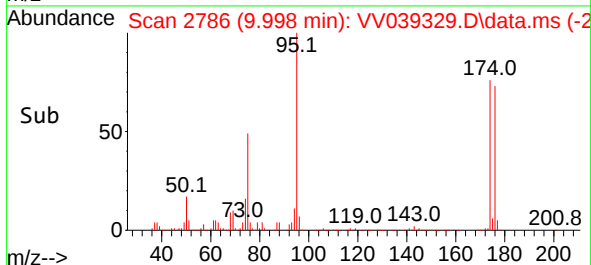
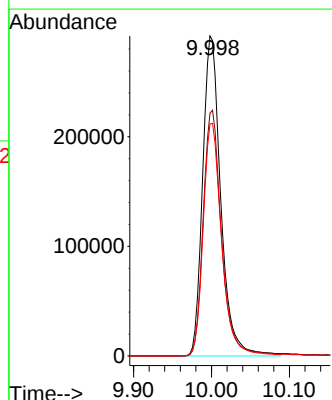
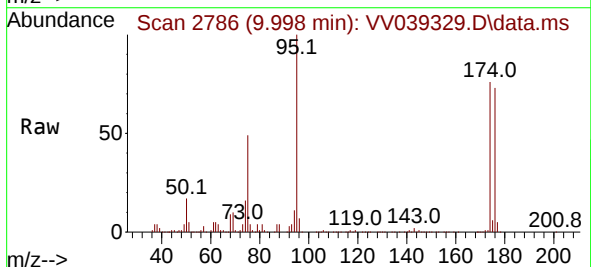
Instrument :  
MSVOA\_V  
ClientSampleId :

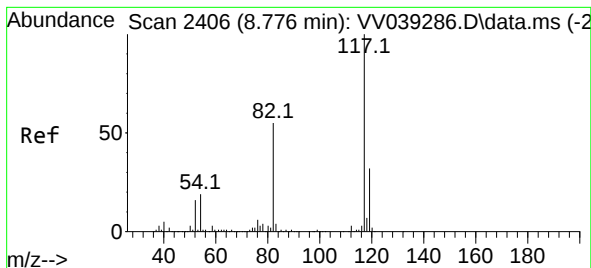
Tgt Ion: 63 Resp: 54  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.5 35.3#



#62  
4-Bromofluorobenzene  
Concen: 43.992 ug/l  
RT: 9.998 min Scan# 2786  
Delta R.T. -0.000 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

Tgt Ion: 95 Resp: 472259  
Ion Ratio Lower Upper  
95 100  
174 78.0 0.0 153.6  
176 73.8 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.773 min Scan# 2406

Delta R.T. -0.003 min

Lab File: VV039329.D

Acq: 05 Nov 2025 12:06

Instrument :

MSVOA\_V

ClientSampleId :

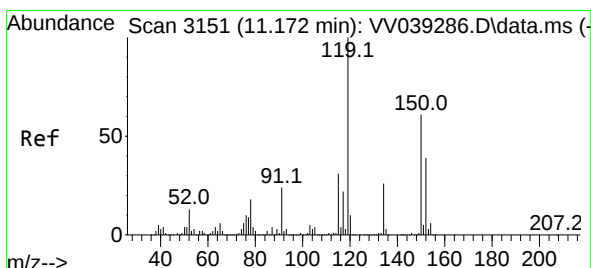
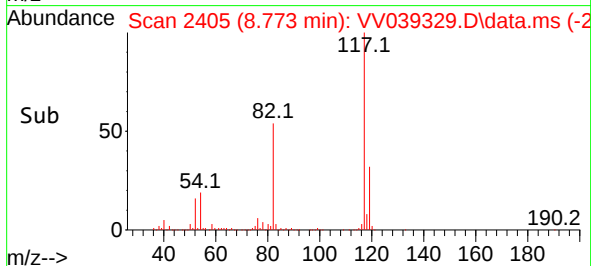
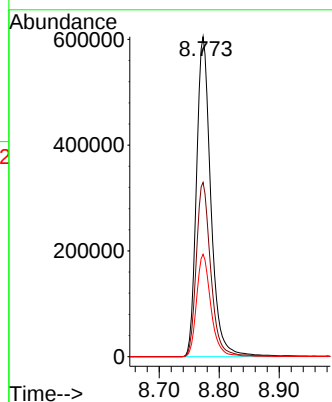
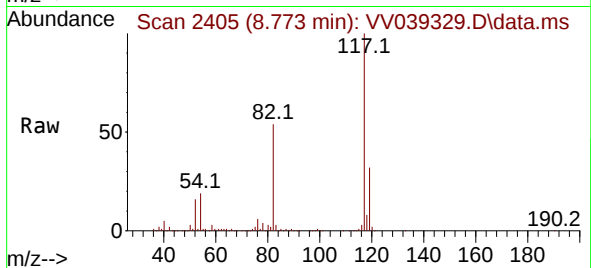
Tgt Ion:117 Resp: 1012799

Ion Ratio Lower Upper

117 100

82 54.4 43.8 65.8

119 32.0 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VV039329.D

Acq: 05 Nov 2025 12:06

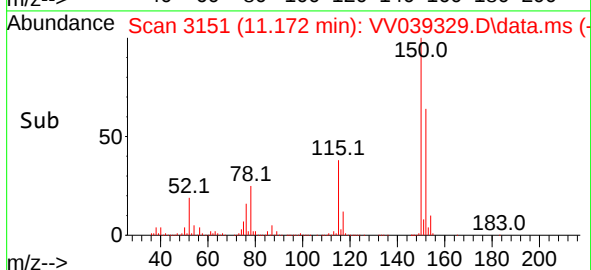
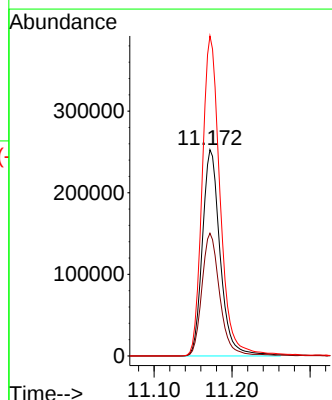
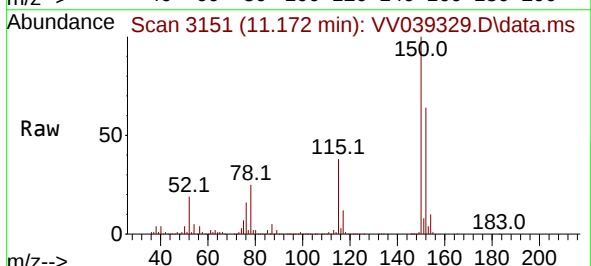
Tgt Ion:152 Resp: 400012

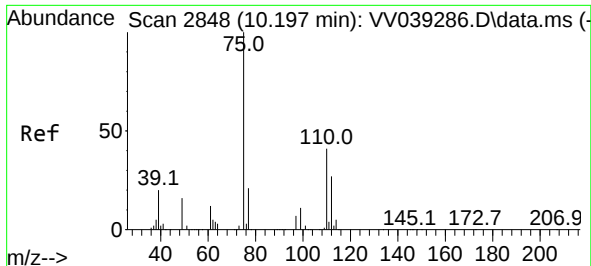
Ion Ratio Lower Upper

152 100

115 60.3 42.3 126.8

150 157.3 0.0 348.0

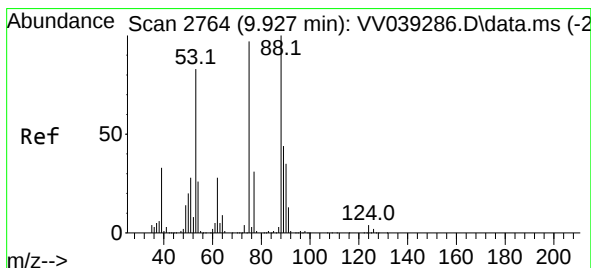
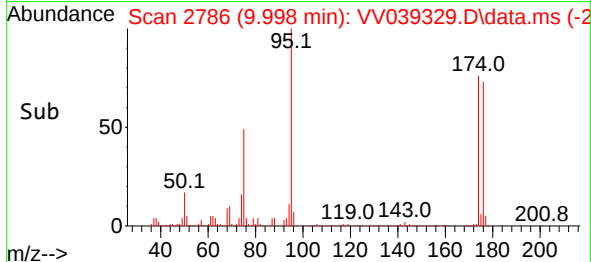
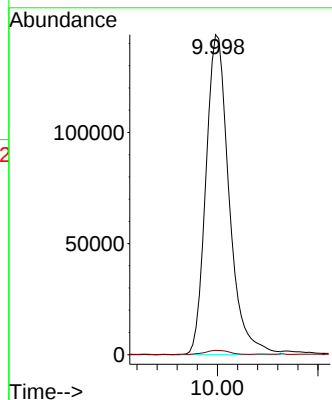
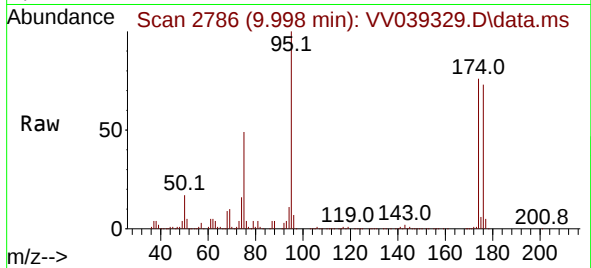




#76  
1,2,3-Trichloropropane  
Concen: 28.908 ug/l  
RT: 9.998 min Scan# 2786  
Delta R.T. -0.199 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

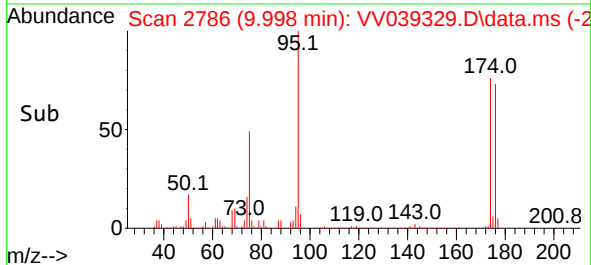
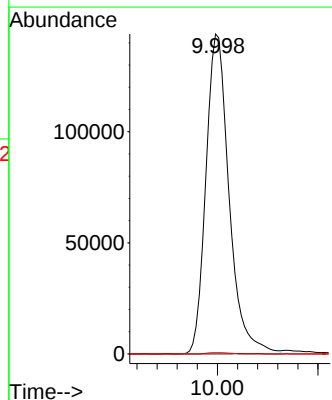
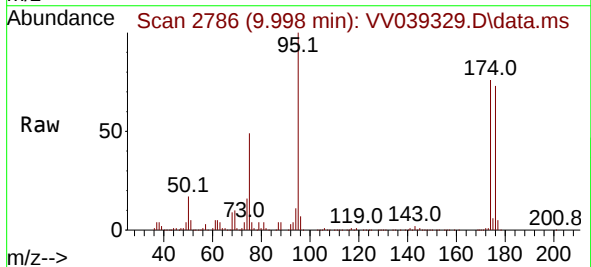
Instrument :  
MSVOA\_V  
ClientSampleId :

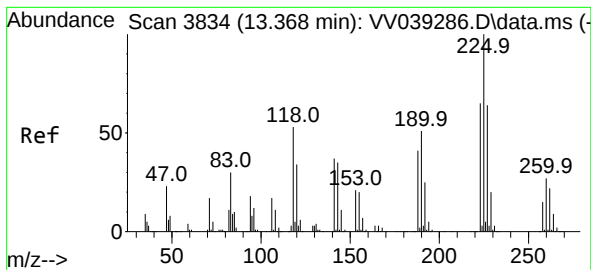
Tgt Ion: 75 Resp: 230797  
Ion Ratio Lower Upper  
75 100  
77 1.4 12.2 36.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.007 ug/l  
RT: 9.998 min Scan# 2786  
Delta R.T. 0.071 min  
Lab File: VV039329.D  
Acq: 05 Nov 2025 12:06

Tgt Ion: 75 Resp: 230797  
Ion Ratio Lower Upper  
75 100  
53 0.4 69.9 104.9#  
89 0.0 37.4 56.0#





#94

Hexachlorobutadiene

Concen: 0.465 ug/l

RT: 13.374 min Scan# 3836

Delta R.T. 0.006 min

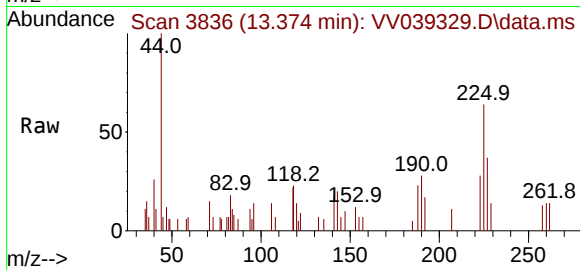
Lab File: VV039329.D

Acq: 05 Nov 2025 12:06

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion:225 Resp: 1665

Ion Ratio Lower Upper

225 100

223 56.9 31.3 93.8

227 73.2 31.7 95.1

