

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060925\  
 Data File : VN086907.D  
 Acq On : 09 Jun 2025 15:51  
 Operator : JC\MD  
 Sample : Q2206-04RE  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 10 03:35:06 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060625W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 07 02:12:50 2025  
 Response via : Initial Calibration

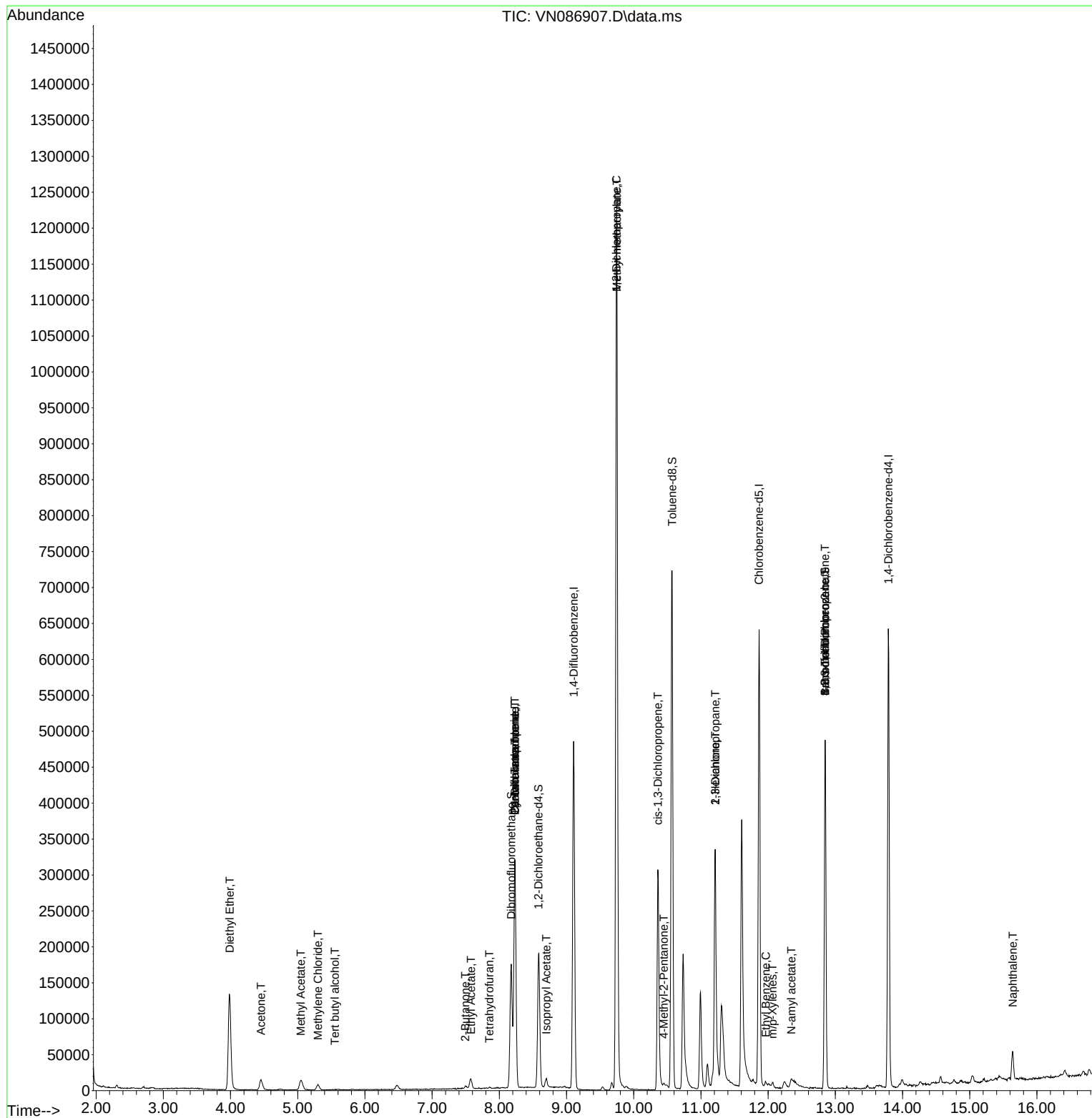
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 255511     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 454815     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 397708     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788         | 152  | 189651     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 151168     | 44.188   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 88.380%  |        |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 133415     | 49.498   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 99.000%  |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 544847     | 51.063   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 102.120% |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 195294     | 49.264   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = | 98.520%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          | Qvalue |          |
| 8) Diethyl Ether              | 3.989          | 74   | 91878      | 47.561   | ug/l   | 94       |
| 11) Tert butyl alcohol        | 5.553          | 59   | 391        | 0.421    | ug/l # | 73       |
| 16) Acetone                   | 4.453          | 43   | 28526      | 15.724   | ug/l   | 99       |
| 18) Methyl Acetate            | 5.048          | 43   | 30426      | 5.755    | ug/l   | 96       |
| 20) Methylene Chloride        | 5.300          | 84   | 5948       | 1.751    | ug/l   | 92       |
| 25) 2-Butanone                | 7.494          | 43   | 5684       | 1.927    | ug/l   | 100      |
| 29) Tetrahydrofuran           | 7.853          | 42   | 944        | 0.491    | ug/l # | 62       |
| 31) Cyclohexane               | 8.230          | 56   | 4629       | 0.834    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 18913      | 4.709    | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.577          | 43   | 21854      | 4.274    | ug/l   | 98       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 24167      | 6.129    | ug/l # | 18       |
| 43) Isopropyl Acetate         | 8.700          | 43   | 13776      | 1.679    | ug/l # | 93       |
| 45) 1,2-Dichloropropane       | 9.741          | 63   | 1868       | 0.585    | ug/l # | 43       |
| 48) Methyl methacrylate       | 9.747          | 41   | 102814     | 27.221   | ug/l # | 35       |
| 51) 4-Methyl-2-Pentanone      | 10.447         | 43   | 5634       | 1.140    | ug/l   | 87       |
| 54) cis-1,3-Dichloropropene   | 10.359         | 75   | 74360      | 14.233   | ug/l # | 55       |
| 57) 1,3-Dichloropropane       | 11.212         | 76   | 5079       | 0.948    | ug/l # | 43       |
| 59) 2-Hexanone                | 11.212         | 43   | 51865      | 16.299   | ug/l # | 51       |
| 67) Ethyl Benzene             | 11.965         | 91   | 5092       | 0.337    | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.065         | 106  | 2172       | 0.376    | ug/l   | 98       |
| 71) Bromoform                 | 12.847         | 173  | 895        | 0.428    | ug/l # | 1        |
| 74) N-amyl acetate            | 12.347         | 43   | 9554       | 1.979    | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 87476      | 19.404   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 87476      | 44.668   | ug/l # | 16       |
| 95) Naphthalene               | 15.641         | 128  | 42632      | 2.995    | ug/l   | 99       |
| -----                         |                |      |            |          |        |          |

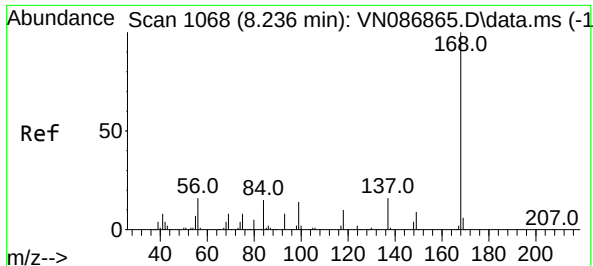
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 07 02:12:50 2025  
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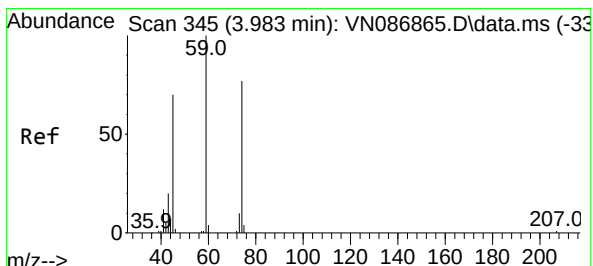
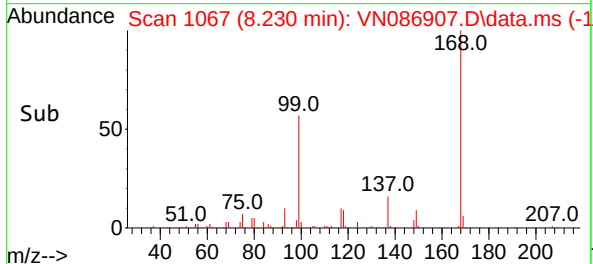
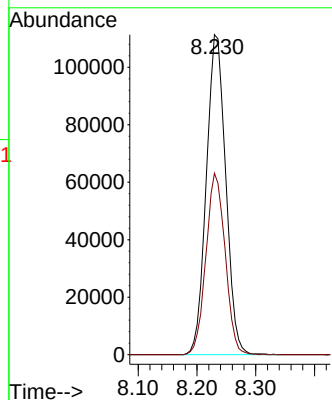
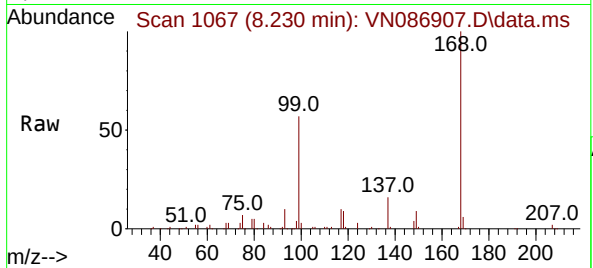




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1068  
Delta R.T. -0.006 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

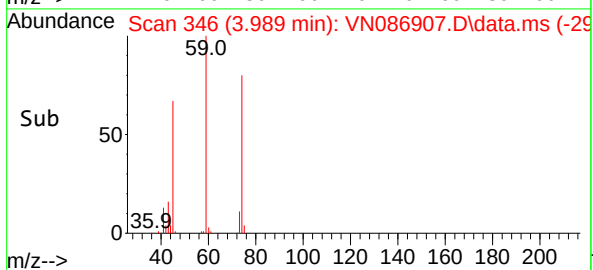
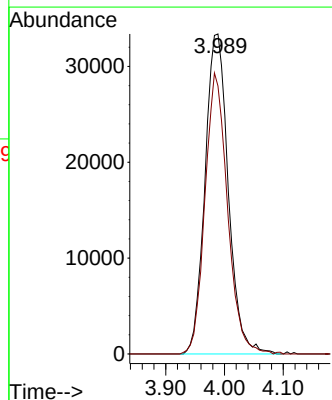
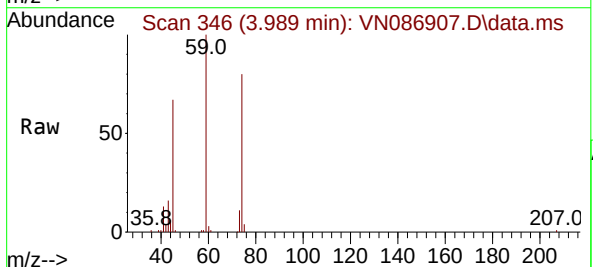
Instrument :  
MSVOA\_N  
ClientSampleId :

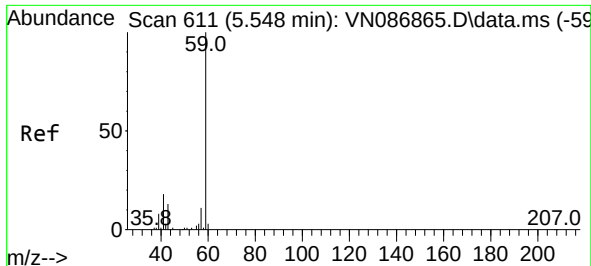
Tgt Ion:168 Resp: 255511  
Ion Ratio Lower Upper  
168 100  
99 56.7 49.1 73.7



#8  
Diethyl Ether  
Concen: 47.561 ug/l  
RT: 3.989 min Scan# 346  
Delta R.T. 0.006 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

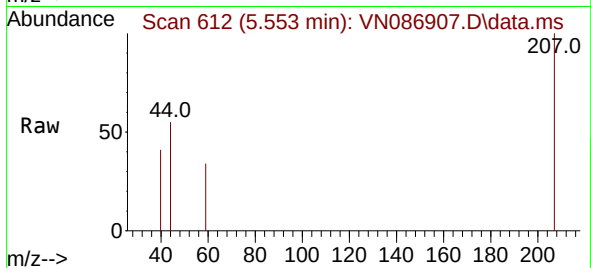
Tgt Ion: 74 Resp: 91878  
Ion Ratio Lower Upper  
74 100  
45 85.0 45.5 136.5



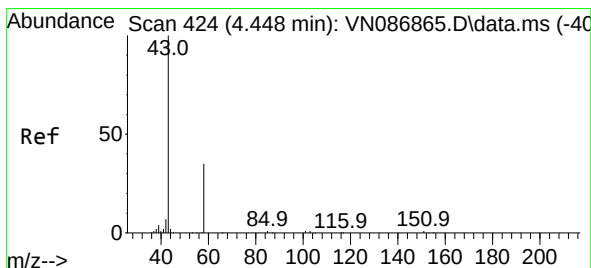
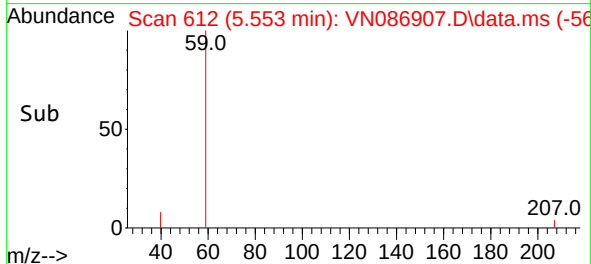
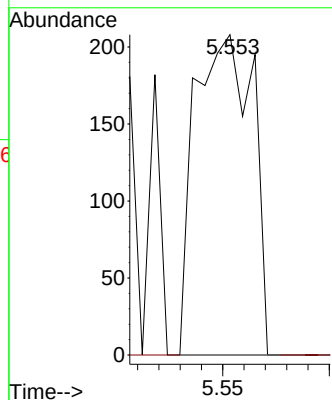


#11  
Tert butyl alcohol  
Concen: 0.421 ug/l  
RT: 5.553 min Scan# 611  
Delta R.T. 0.006 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

Instrument :  
MSVOA\_N  
ClientSampleId :

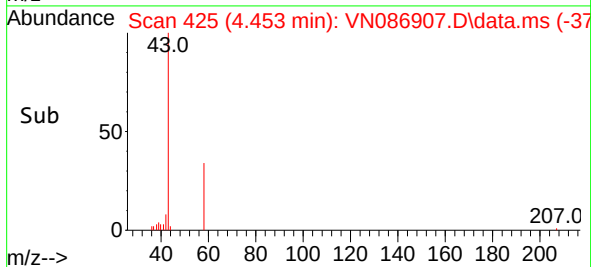
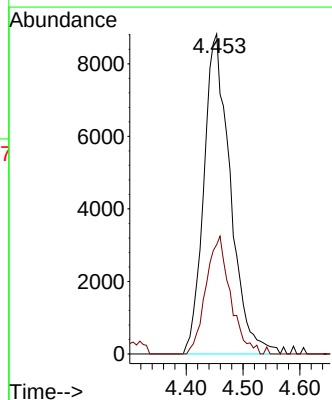
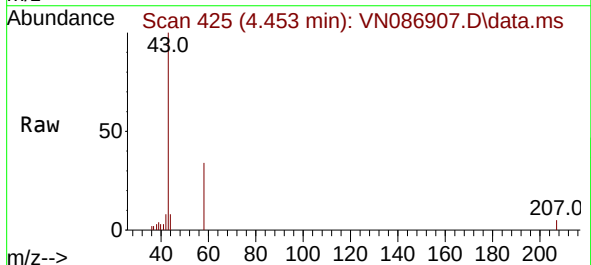


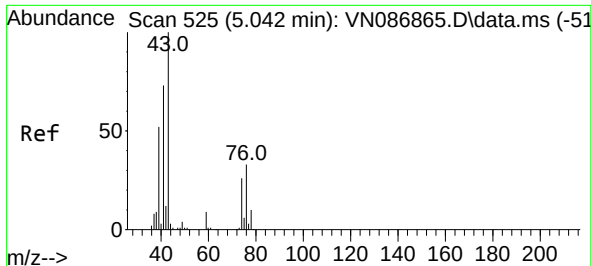
Tgt Ion: 59 Resp: 391  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.1 12.1#



#16  
Acetone  
Concen: 15.724 ug/l  
RT: 4.453 min Scan# 425  
Delta R.T. 0.006 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

Tgt Ion: 43 Resp: 28526  
Ion Ratio Lower Upper  
43 100  
58 34.1 28.0 42.0

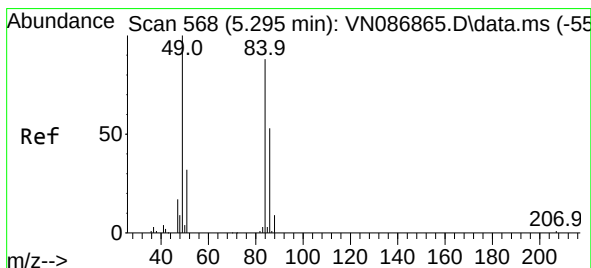
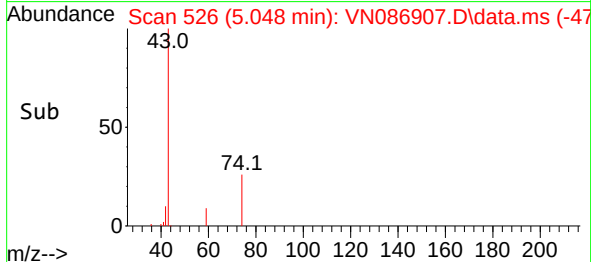
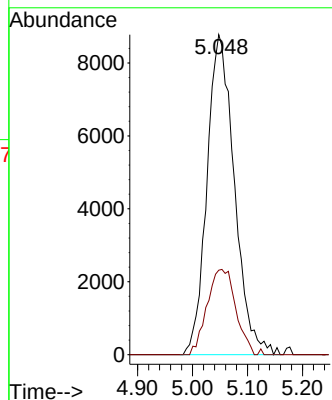
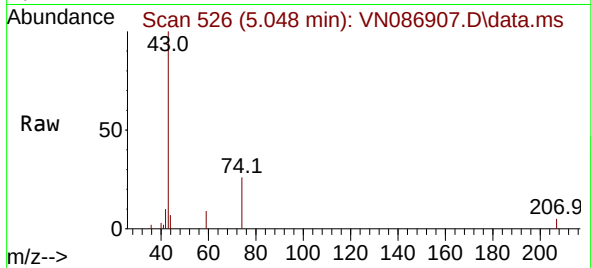




#18  
Methyl Acetate  
Concen: 5.755 ug/l  
RT: 5.048 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

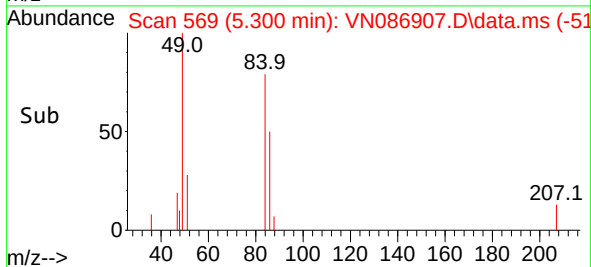
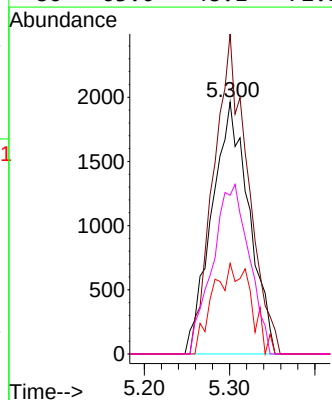
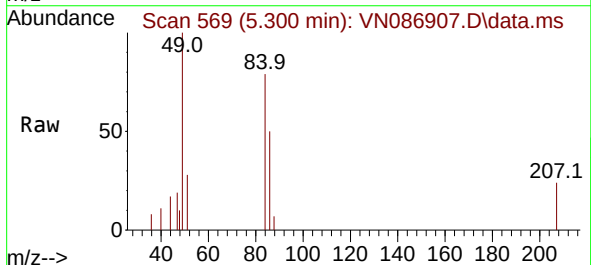
Instrument :  
MSVOA\_N  
ClientSampleId :

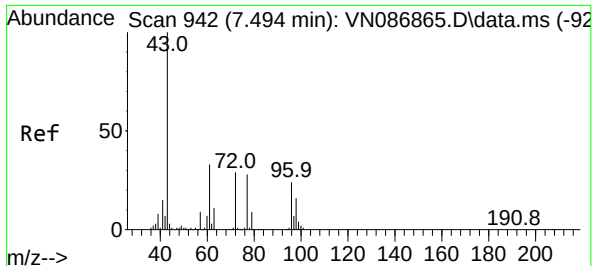
Tgt Ion: 43 Resp: 30426  
Ion Ratio Lower Upper  
43 100  
74 27.8 20.7 31.1



#20  
Methylene Chloride  
Concen: 1.751 ug/l  
RT: 5.300 min Scan# 569  
Delta R.T. 0.006 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

Tgt Ion: 84 Resp: 5948  
Ion Ratio Lower Upper  
84 100  
49 127.1 90.5 135.7  
51 35.9 28.5 42.7  
86 63.0 48.1 72.1

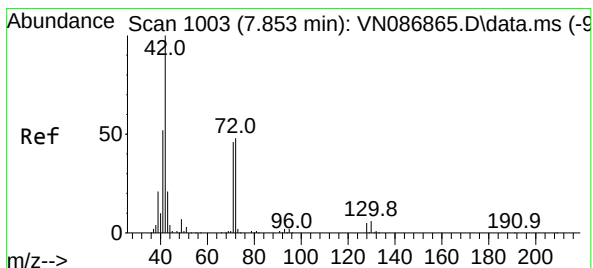
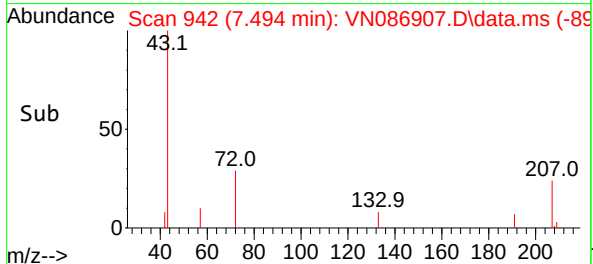
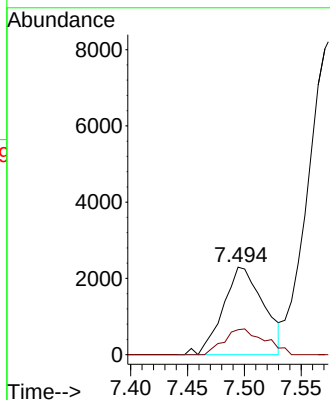
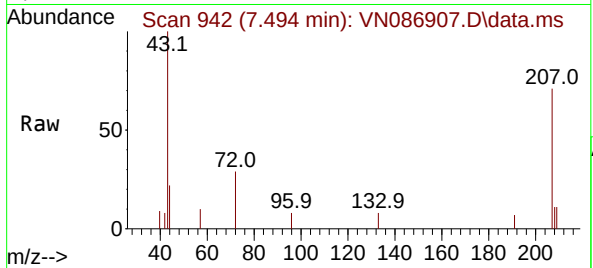




#25  
2-Butanone  
Concen: 1.927 ug/l  
RT: 7.494 min Scan# 94  
Delta R.T. 0.000 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

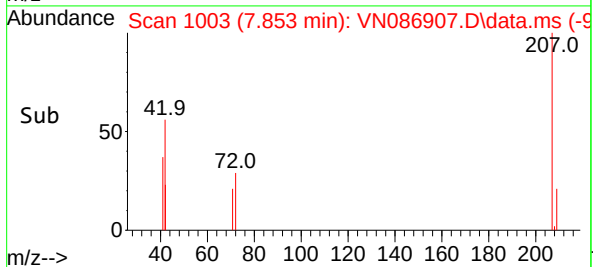
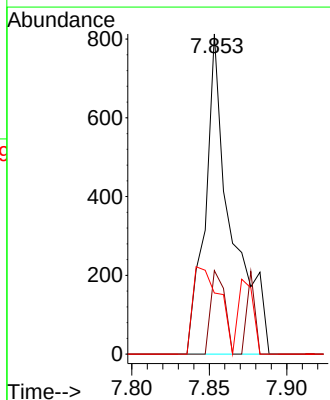
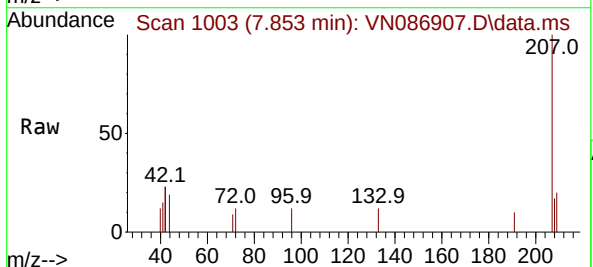
Instrument :  
MSVOA\_N  
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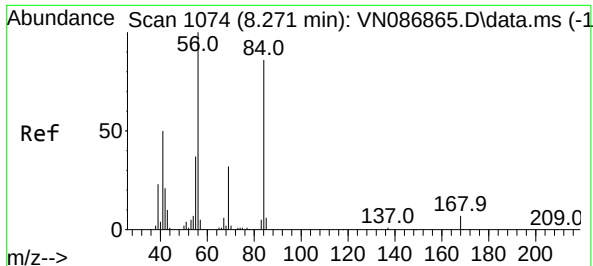
Tgt Ion: 43 Resp: 5684  
Ion Ratio Lower Upper  
43 100  
72 28.6 23.0 34.6



#29  
Tetrahydrofuran  
Concen: 0.491 ug/l  
RT: 7.853 min Scan# 1003  
Delta R.T. 0.000 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

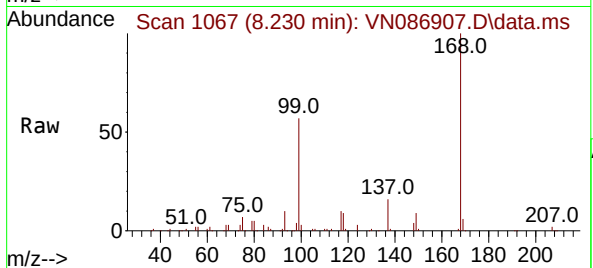
Tgt Ion: 42 Resp: 944  
Ion Ratio Lower Upper  
42 100  
72 14.2 37.8 56.6#  
71 27.6 35.6 53.4#



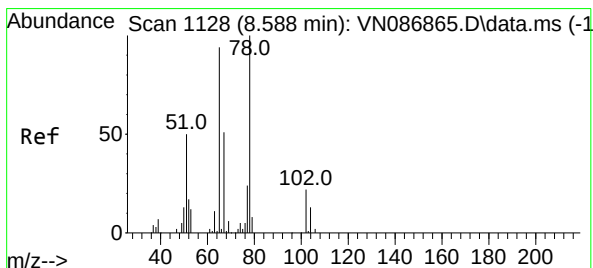
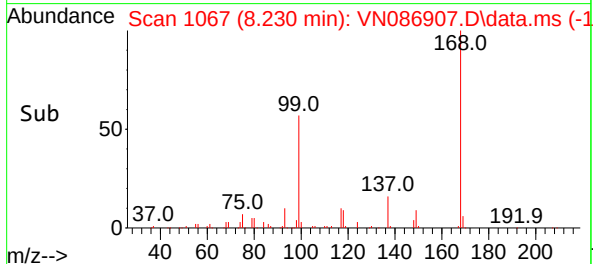
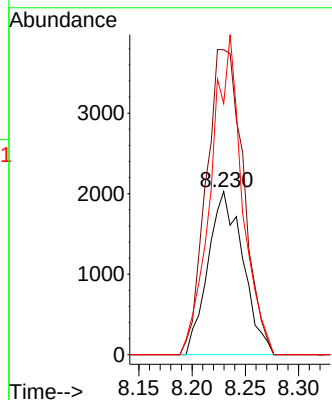


#31  
Cyclohexane  
Concen: 0.834 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.041 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

Instrument :  
MSVOA\_N  
ClientSampleId :

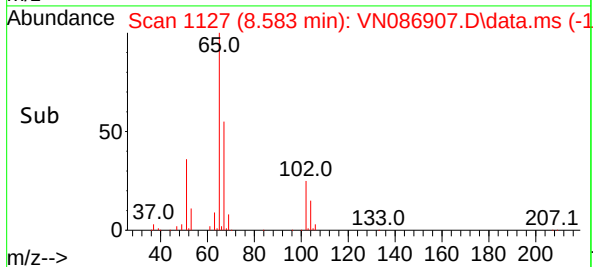
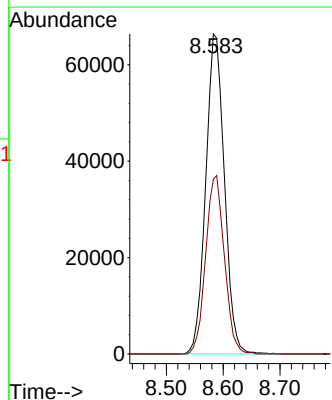
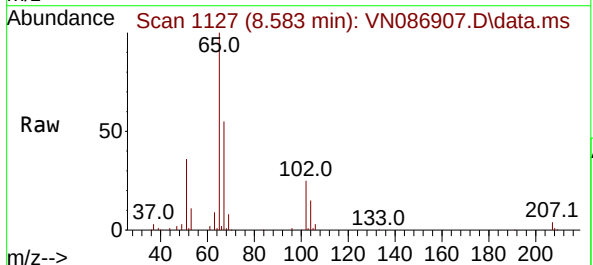


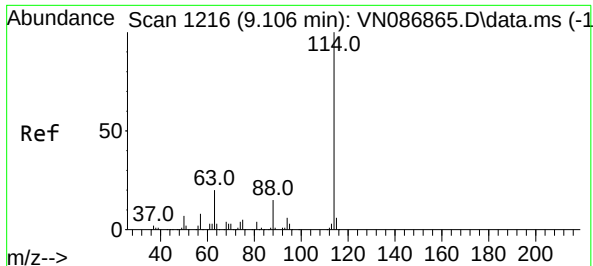
Tgt Ion: 56 Resp: 4629  
Ion Ratio Lower Upper  
56 100  
69 186.9 25.4 38.0#  
84 153.9 68.8 103.2#



#33  
1,2-Dichloroethane-d4  
Concen: 44.188 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. -0.006 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

Tgt Ion: 65 Resp: 151168  
Ion Ratio Lower Upper  
65 100  
67 55.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

Instrument :

MSVOA\_N

ClientSampleId :

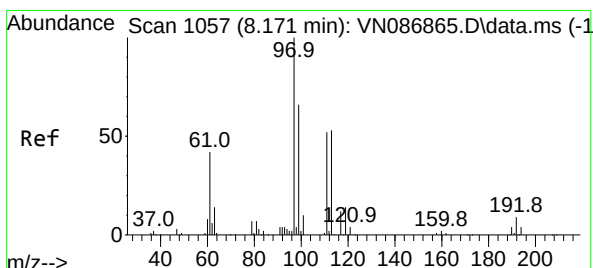
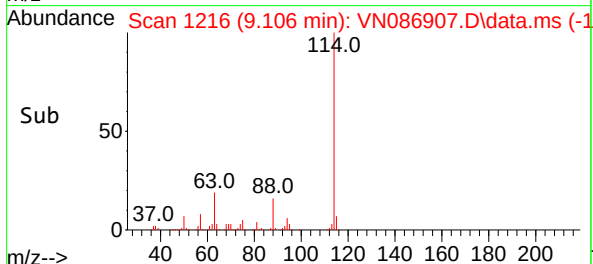
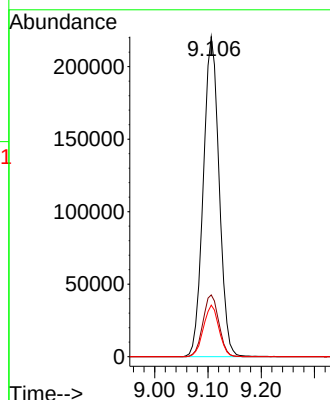
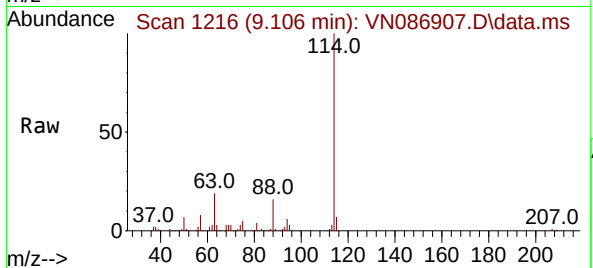
Tgt Ion:114 Resp: 454815

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

88 16.1 0.0 30.2



#35

Dibromofluoromethane

Concen: 49.498 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

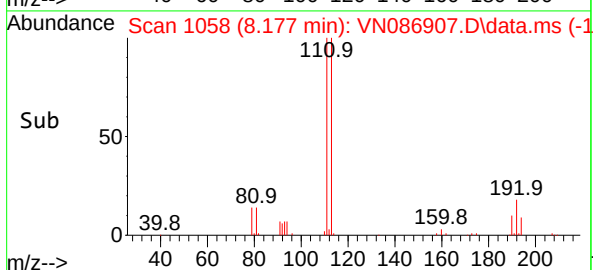
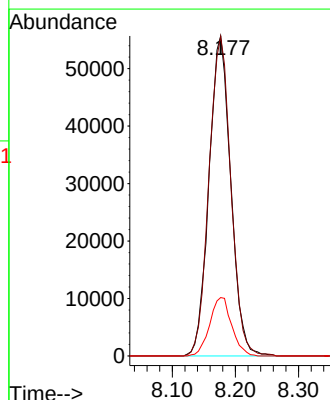
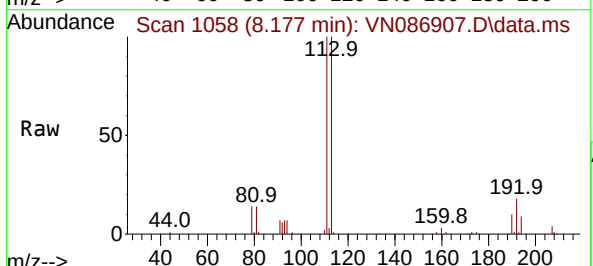
Tgt Ion:113 Resp: 133415

Ion Ratio Lower Upper

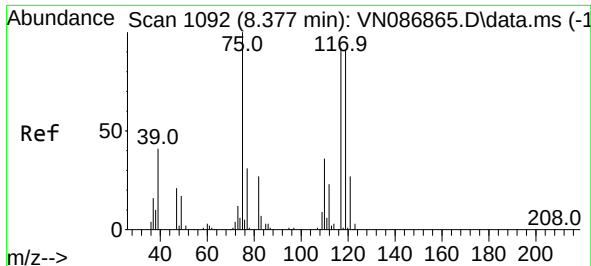
113 100

111 100.5 84.2 126.2

192 18.4 14.2 21.4

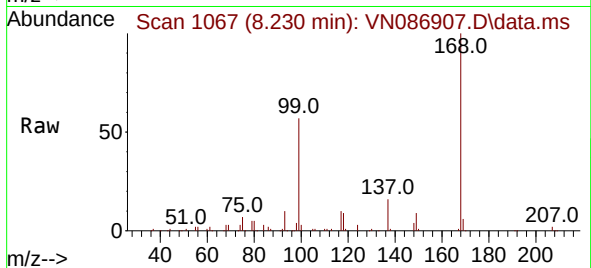




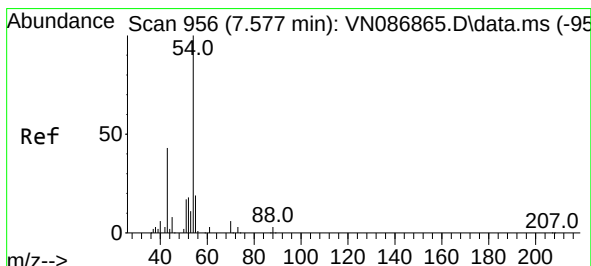
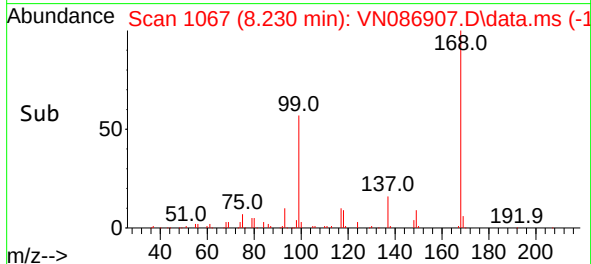
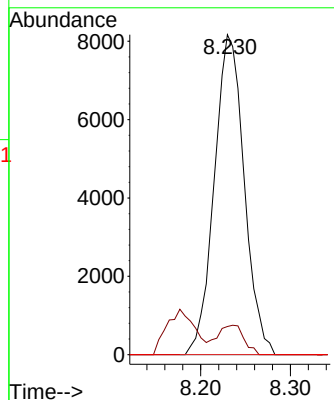


#36  
 1,1-Dichloropropene  
 Concen: 4.709 ug/l  
 RT: 8.230 min Scan# 1067  
 Delta R.T. -0.147 min  
 Lab File: VN086907.D  
 Acq: 09 Jun 2025 15:51

Instrument :  
 MSVOA\_N  
 ClientSampleId :

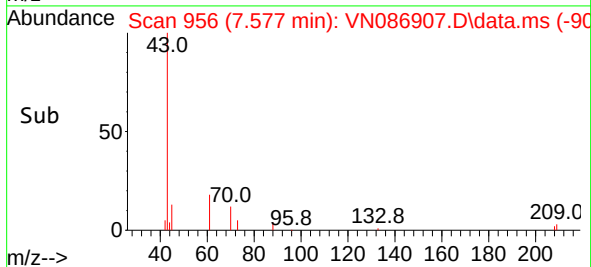
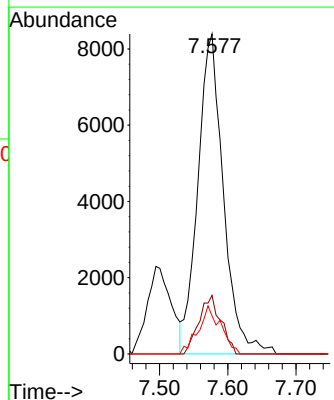
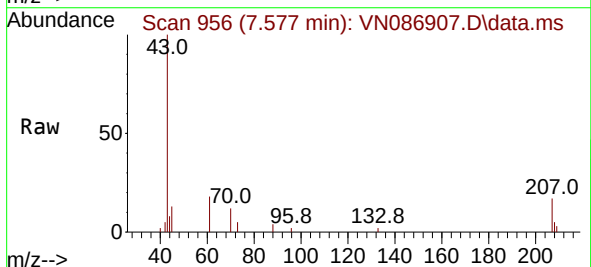


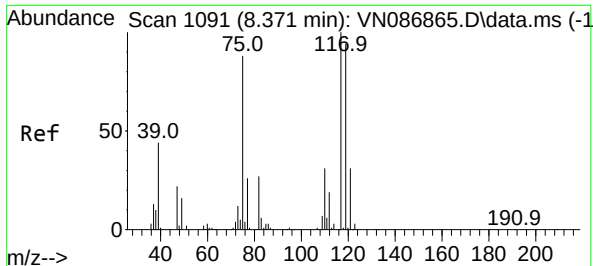
Tgt Ion: 75 Resp: 18913  
 Ion Ratio Lower Upper  
 75 100  
 110 8.3 17.6 52.9#  
 77 0.0 25.3 37.9#



#37  
 Ethyl Acetate  
 Concen: 4.274 ug/l  
 RT: 7.577 min Scan# 956  
 Delta R.T. 0.000 min  
 Lab File: VN086907.D  
 Acq: 09 Jun 2025 15:51

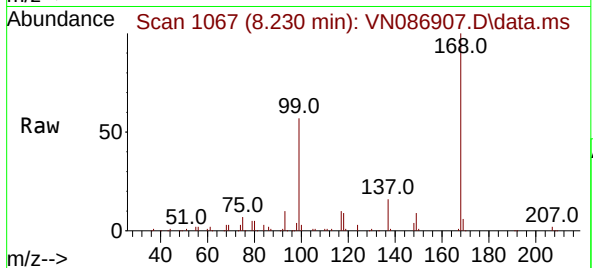
Tgt Ion: 43 Resp: 21854  
 Ion Ratio Lower Upper  
 43 100  
 61 15.7 12.1 18.1  
 70 13.1 9.8 14.6



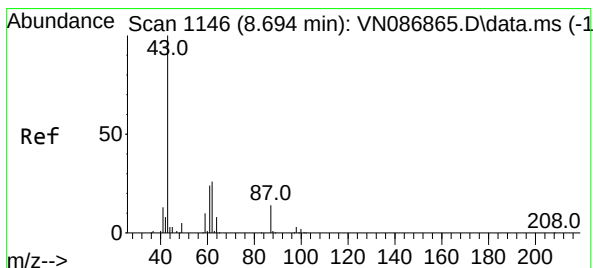
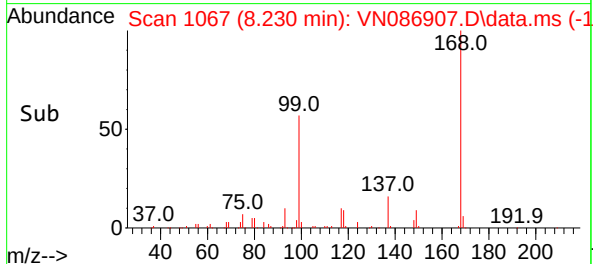
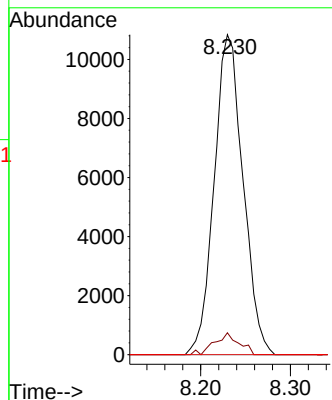


#38  
Carbon Tetrachloride  
Concen: 6.129 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.141 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

Instrument :  
MSVOA\_N  
ClientSampleId :

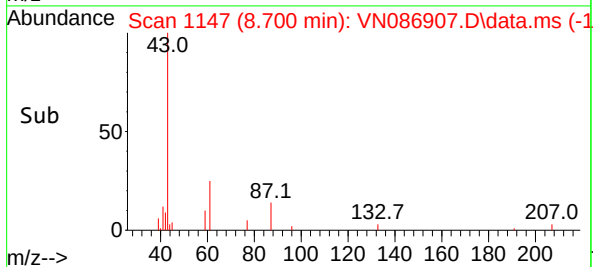
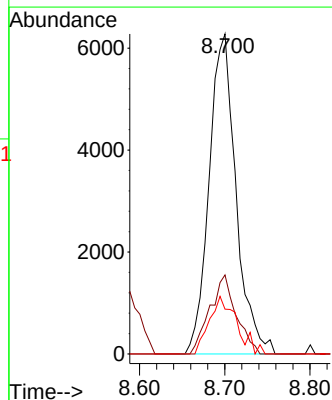
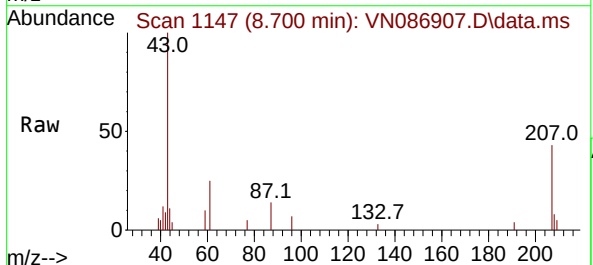


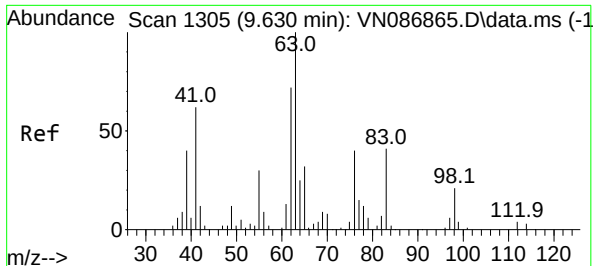
Tgt Ion:117 Resp: 24167  
Ion Ratio Lower Upper  
117 100  
119 6.9 75.0 112.6#  
121 0.0 24.9 37.3#



#43  
Isopropyl Acetate  
Concen: 1.679 ug/l  
RT: 8.700 min Scan# 1147  
Delta R.T. 0.006 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

Tgt Ion: 43 Resp: 13776  
Ion Ratio Lower Upper  
43 100  
61 24.3 22.1 33.1  
87 18.2 11.8 17.6#





#45

1,2-Dichloropropane

Concen: 0.585 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

Instrument :

MSVOA\_N

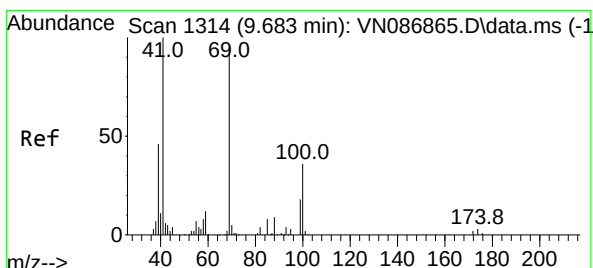
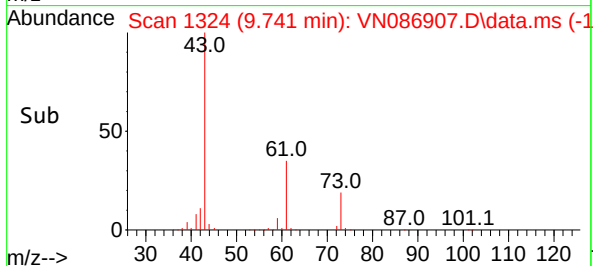
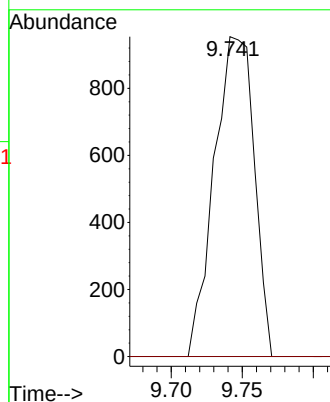
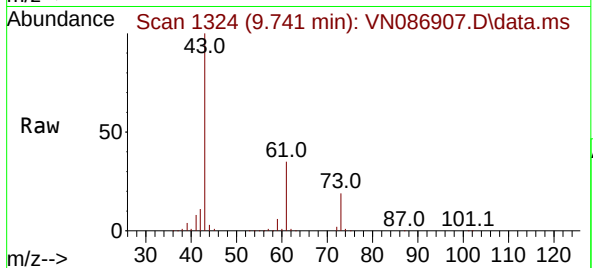
ClientSampleId :

Tgt Ion: 63 Resp: 1868

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 27.221 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

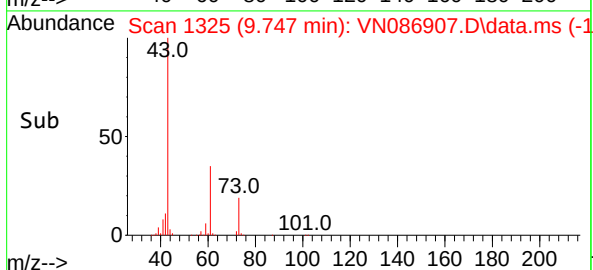
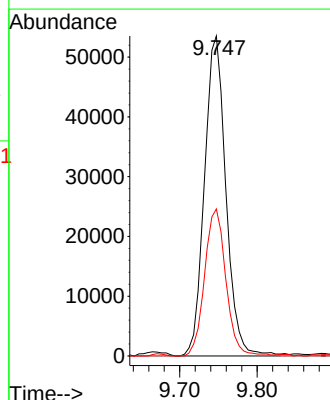
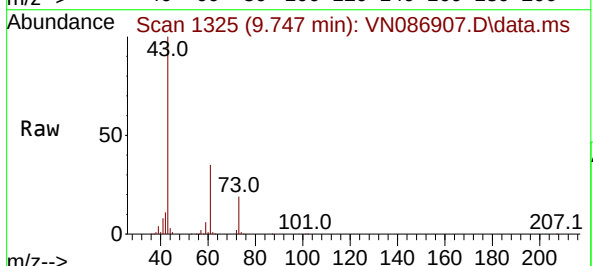
Tgt Ion: 41 Resp: 102814

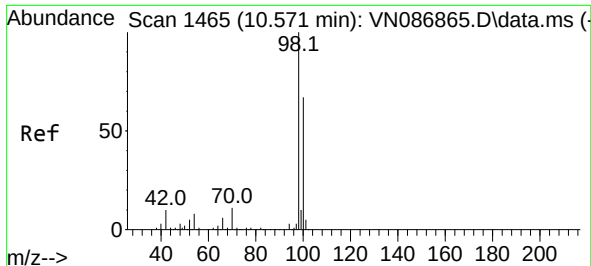
Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 45.7 40.2 60.4

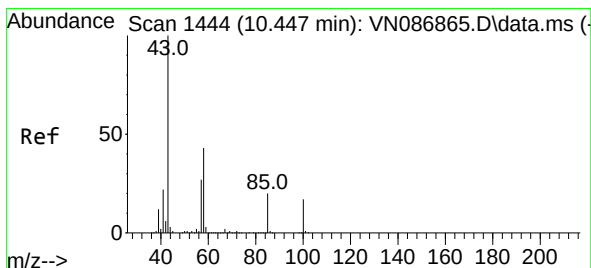
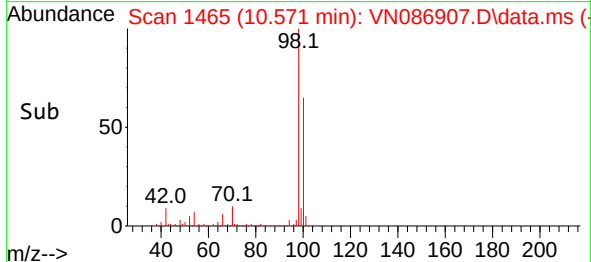
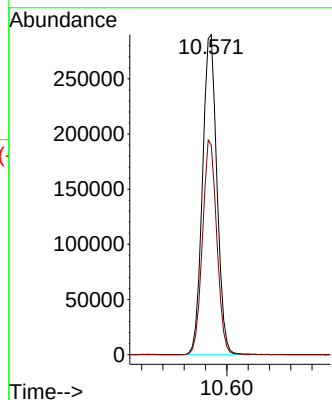
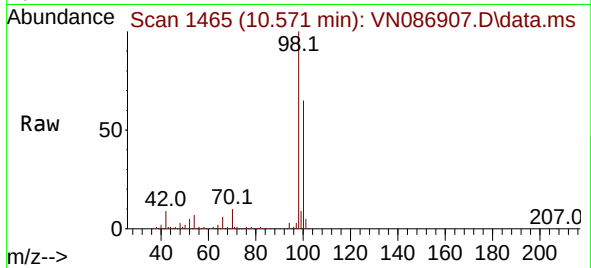




#50  
Toluene-d8  
Concen: 51.063 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

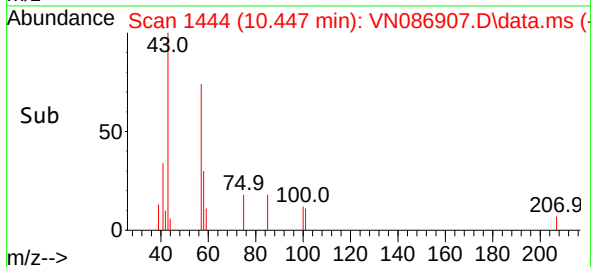
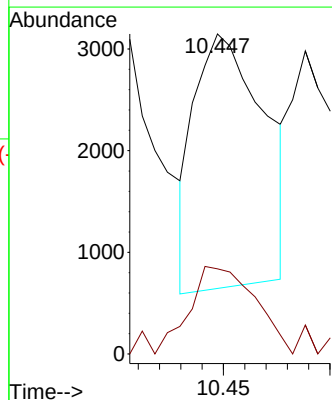
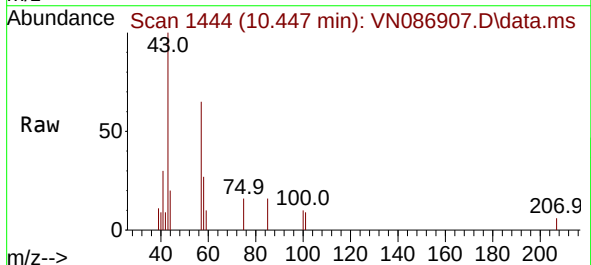
Instrument :  
MSVOA\_N  
ClientSampleId :

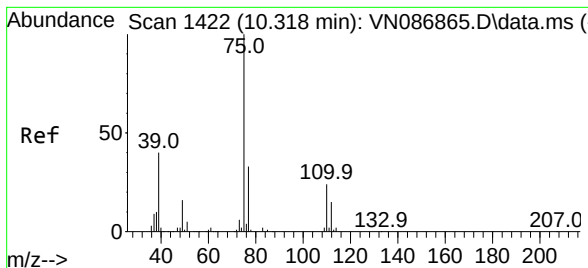
Tgt Ion: 98 Resp: 544847  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.4 80.0



#51  
4-Methyl-2-Pentanone  
Concen: 1.140 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

Tgt Ion: 43 Resp: 5634  
Ion Ratio Lower Upper  
43 100  
58 34.3 34.2 51.4

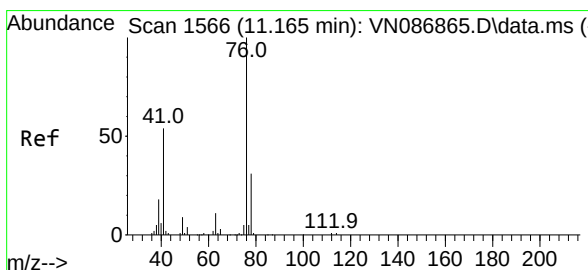
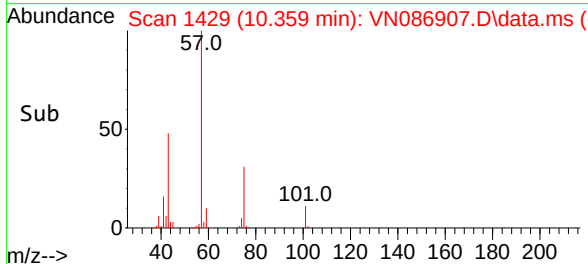
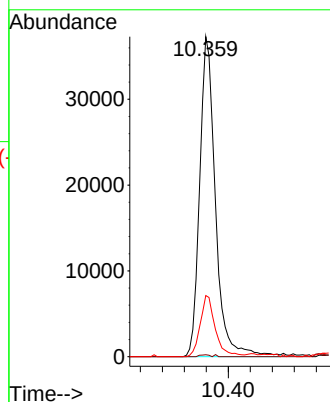
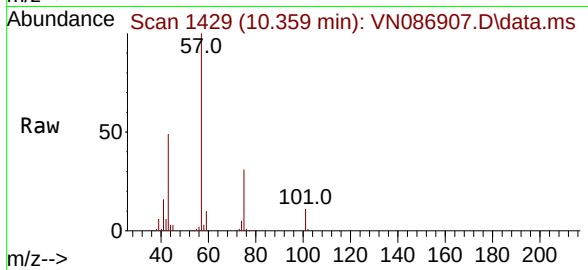




#54  
 cis-1,3-Dichloropropene  
 Concen: 14.233 ug/l  
 RT: 10.359 min Scan# 14  
 Delta R.T. 0.041 min  
 Lab File: VN086907.D  
 Acq: 09 Jun 2025 15:51

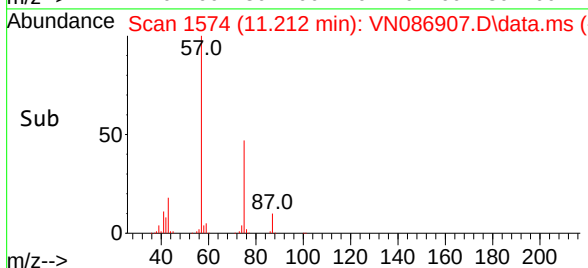
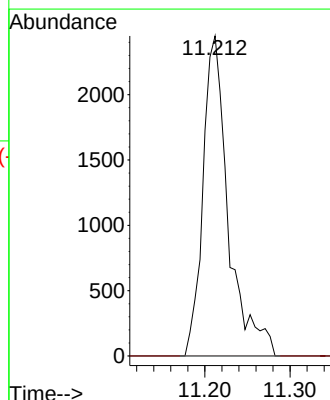
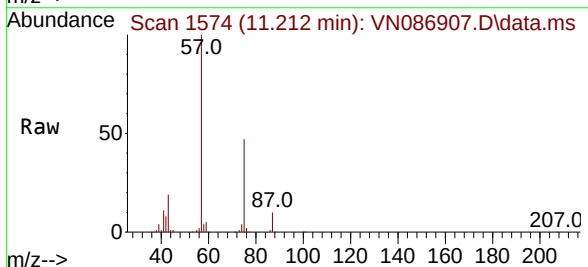
Instrument :  
 MSVOA\_N  
 ClientSampleId :

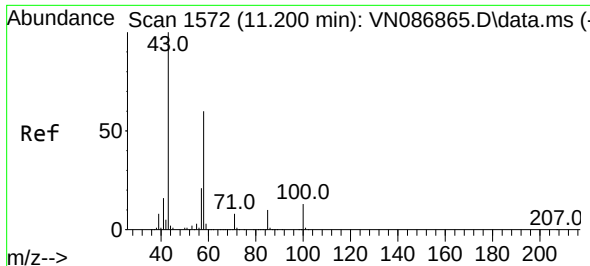
Tgt Ion: 75 Resp: 74360  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 26.2 39.4#  
 39 19.1 32.3 48.5#



#57  
 1,3-Dichloropropane  
 Concen: 0.948 ug/l  
 RT: 11.212 min Scan# 1574  
 Delta R.T. 0.047 min  
 Lab File: VN086907.D  
 Acq: 09 Jun 2025 15:51

Tgt Ion: 76 Resp: 5079  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.3 37.9#

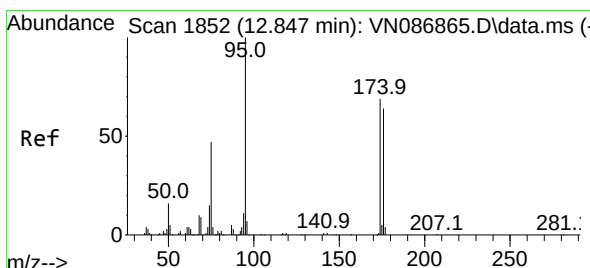
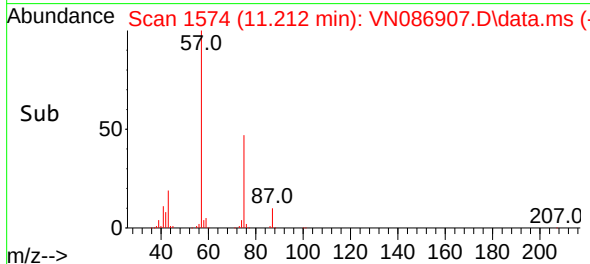
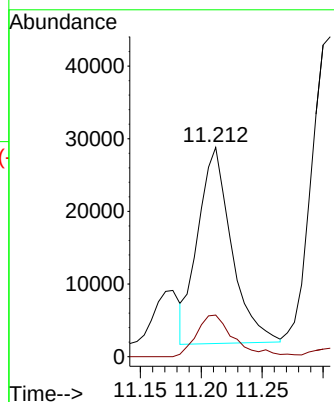
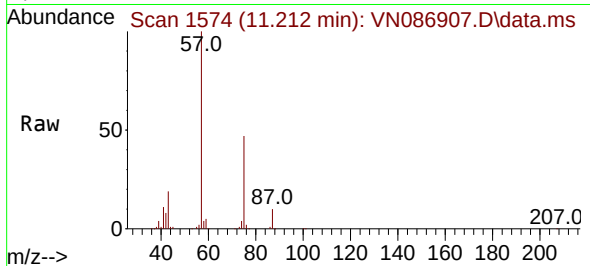




#59  
2-Hexanone  
Concen: 16.299 ug/l  
RT: 11.212 min Scan# 1574  
Delta R.T. 0.012 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

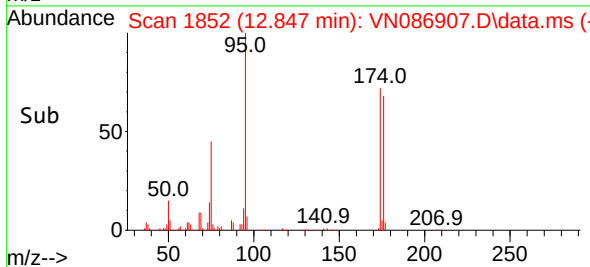
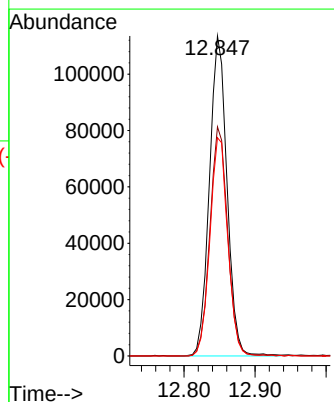
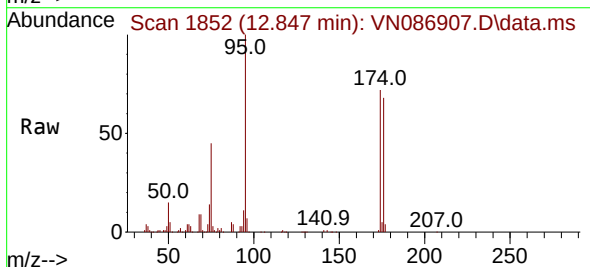
Instrument :  
MSVOA\_N  
ClientSampleId :

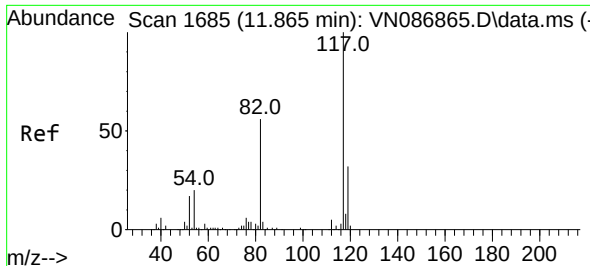
Tgt Ion: 43 Resp: 51865  
Ion Ratio Lower Upper  
43 100  
58 23.9 30.4 91.3#



#62  
4-Bromofluorobenzene  
Concen: 49.264 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

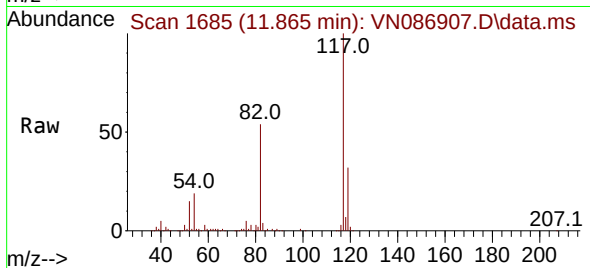
Tgt Ion: 95 Resp: 195294  
Ion Ratio Lower Upper  
95 100  
174 72.3 0.0 141.8  
176 69.0 0.0 132.6



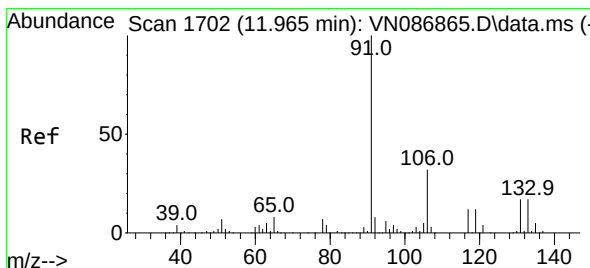
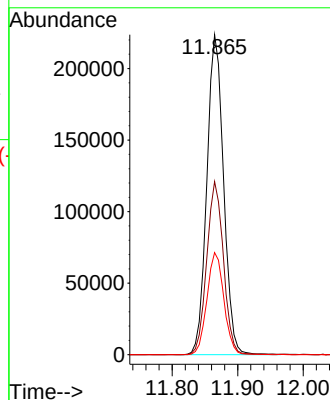
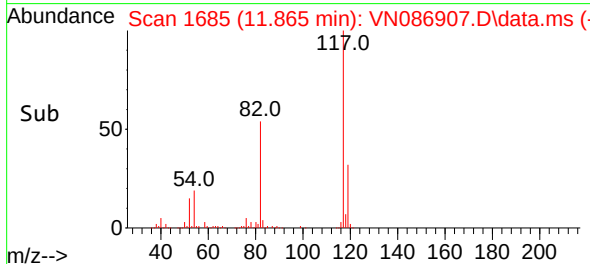


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1170  
Delta R.T. 0.000 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

Instrument :  
MSVOA\_N  
ClientSampleId :

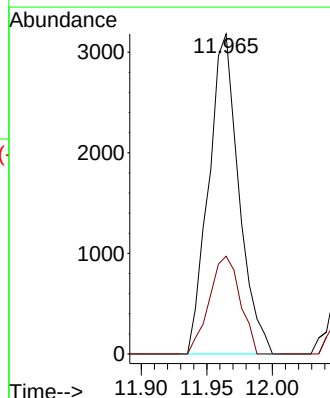
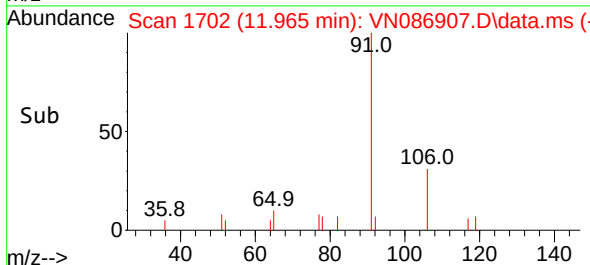
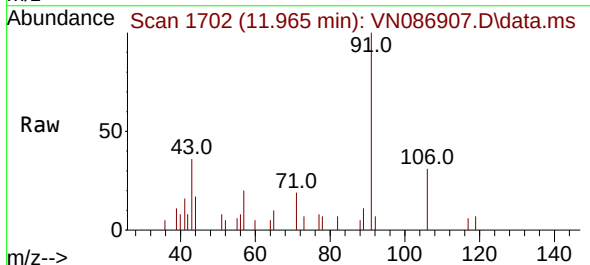


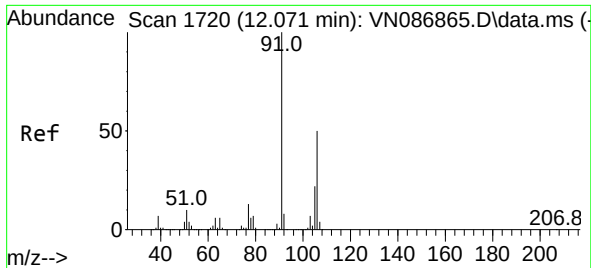
Tgt Ion:117 Resp: 397708  
Ion Ratio Lower Upper  
117 100  
82 54.1 44.6 67.0  
119 31.9 25.5 38.3



#67  
Ethyl Benzene  
Concen: 0.337 ug/l  
RT: 11.965 min Scan# 1702  
Delta R.T. 0.000 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

Tgt Ion: 91 Resp: 5092  
Ion Ratio Lower Upper  
91 100  
106 30.6 25.4 38.2

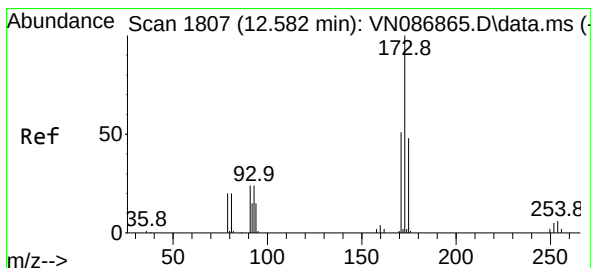
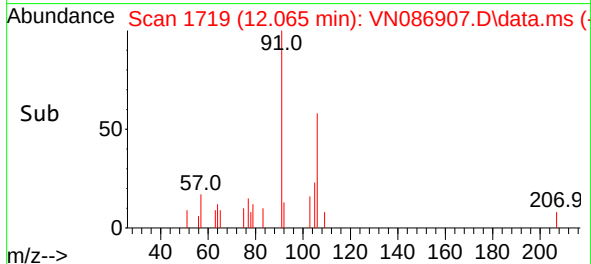
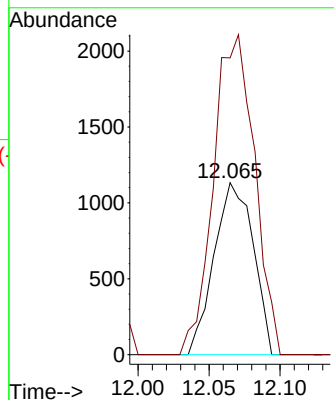
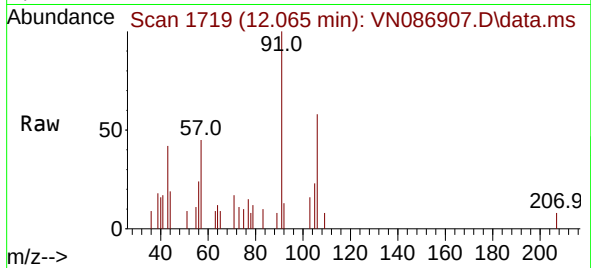




#68  
m/p-Xylenes  
Concen: 0.376 ug/l  
RT: 12.065 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

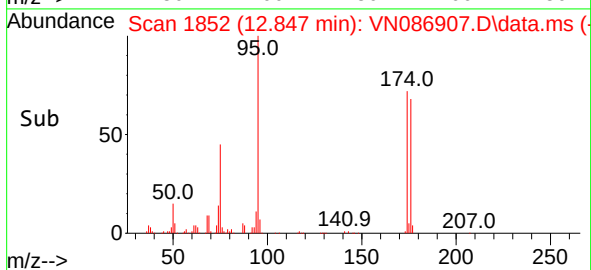
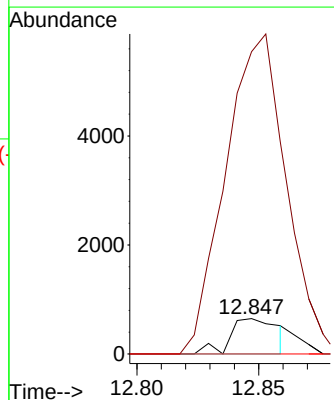
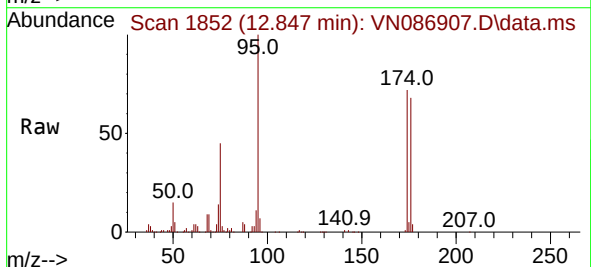
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:106 Resp: 2172  
Ion Ratio Lower Upper  
106 100  
91 195.5 159.4 239.0

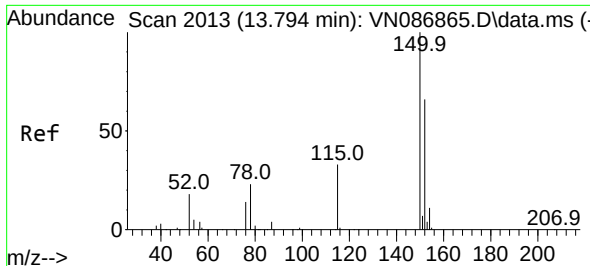


#71  
Bromoform  
Concen: 0.428 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.265 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

Tgt Ion:173 Resp: 895  
Ion Ratio Lower Upper  
173 100  
175 993.5 24.1 72.4#  
254 0.0 0.0 0.0

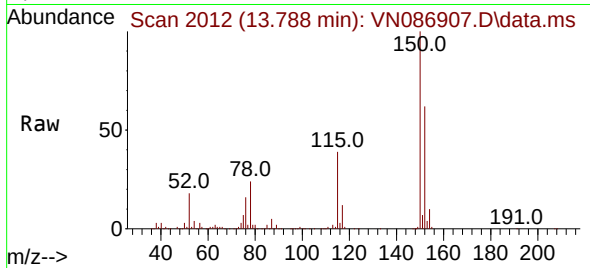




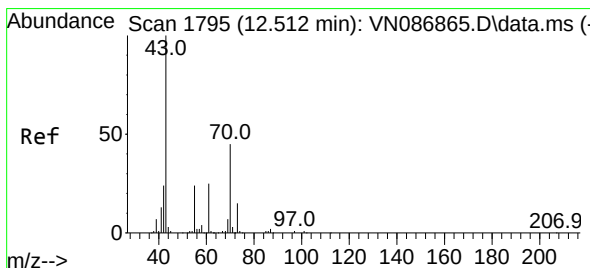
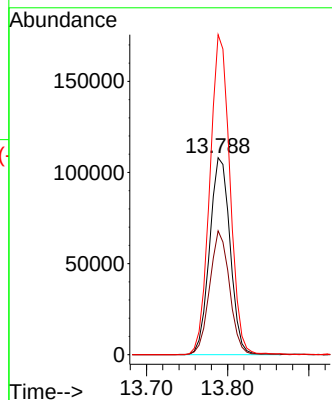
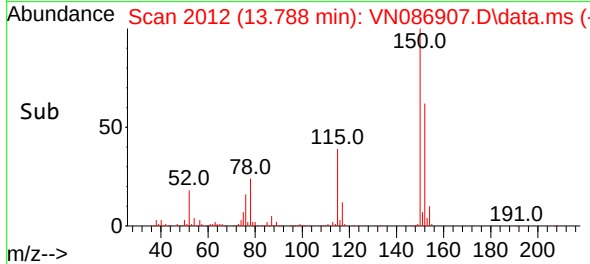


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: VN086907.D  
 Acq: 09 Jun 2025 15:51

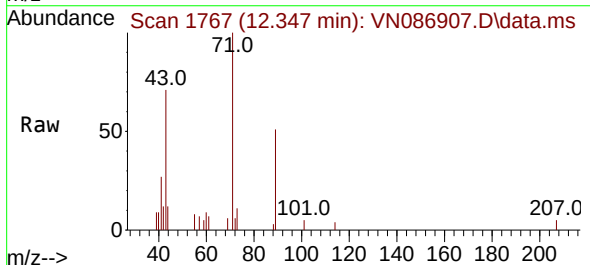
Instrument :  
 MSVOA\_N  
 ClientSampleId :



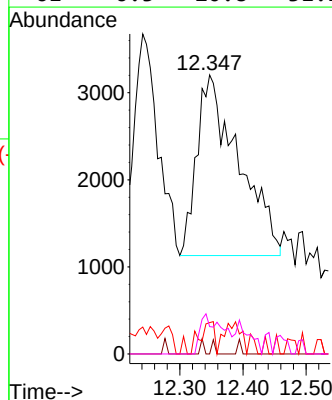
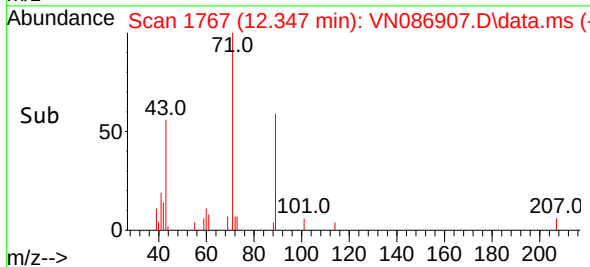
Tgt Ion:152 Resp: 189651  
 Ion Ratio Lower Upper  
 152 100  
 115 61.2 30.1 90.5  
 150 159.2 0.0 345.0

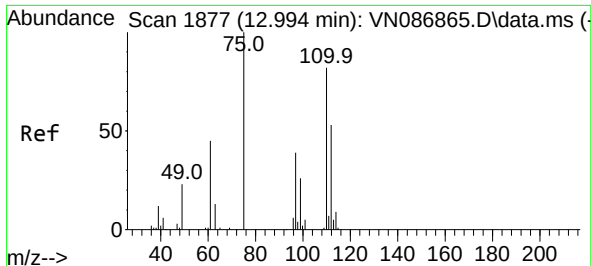


#74  
 N-ethyl acetate  
 Concen: 1.979 ug/l  
 RT: 12.347 min Scan# 1767  
 Delta R.T. -0.165 min  
 Lab File: VN086907.D  
 Acq: 09 Jun 2025 15:51



Tgt Ion: 43 Resp: 9554  
 Ion Ratio Lower Upper  
 43 100  
 70 0.6 37.6 56.4#  
 55 6.1 19.0 28.6#  
 61 6.3 20.8 31.2#

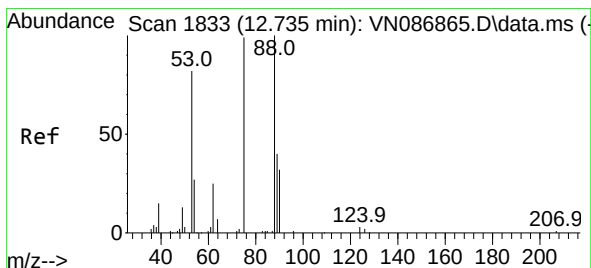
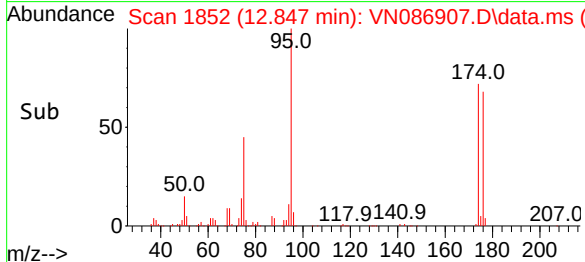
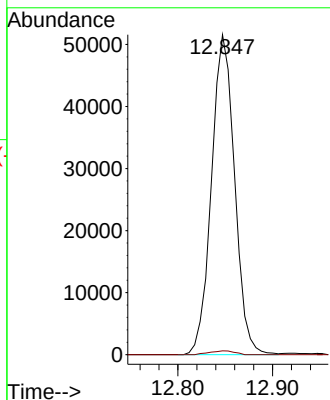
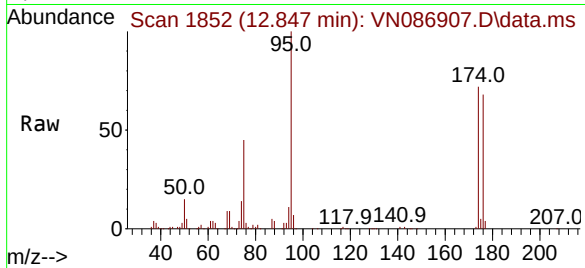




#76  
1,2,3-Trichloropropane  
Concen: 19.404 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

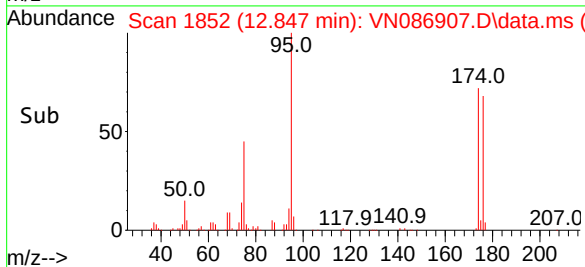
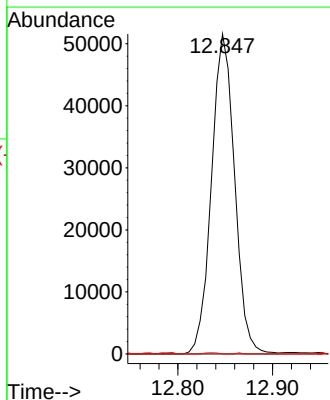
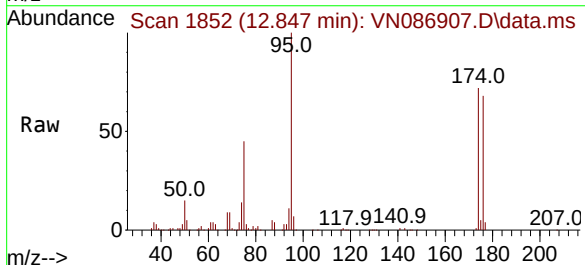
Instrument :  
MSVOA\_N  
ClientSampleId :

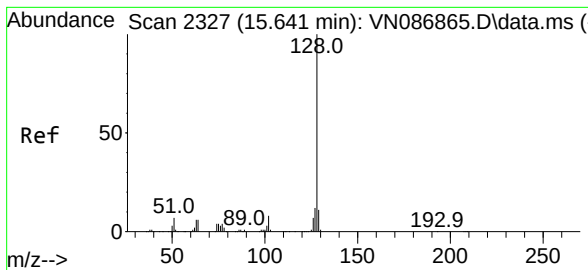
Tgt Ion: 75 Resp: 87476  
Ion Ratio Lower Upper  
75 100  
77 1.3 79.3 237.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 44.668 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN086907.D  
Acq: 09 Jun 2025 15:51

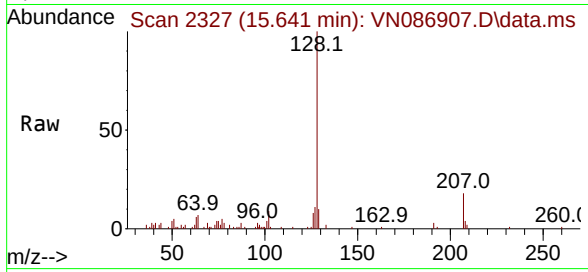
Tgt Ion: 75 Resp: 87476  
Ion Ratio Lower Upper  
75 100  
53 0.0 66.6 99.8#  
89 0.2 36.7 55.1#





#95  
 Naphthalene  
 Concen: 2.995 ug/l  
 RT: 15.641 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VN086907.D  
 Acq: 09 Jun 2025 15:51

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 42632 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.2  | 10.2  | 15.2  |
| 129      | 11.4  | 8.8   | 13.2  |

