

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081325\  
 Data File : VN087547.D  
 Acq On : 13 Aug 2025 19:40  
 Operator : JC\MD  
 Sample : Q2836-13  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 14 04:07:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071625W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 17 02:56:13 2025  
 Response via : Initial Calibration

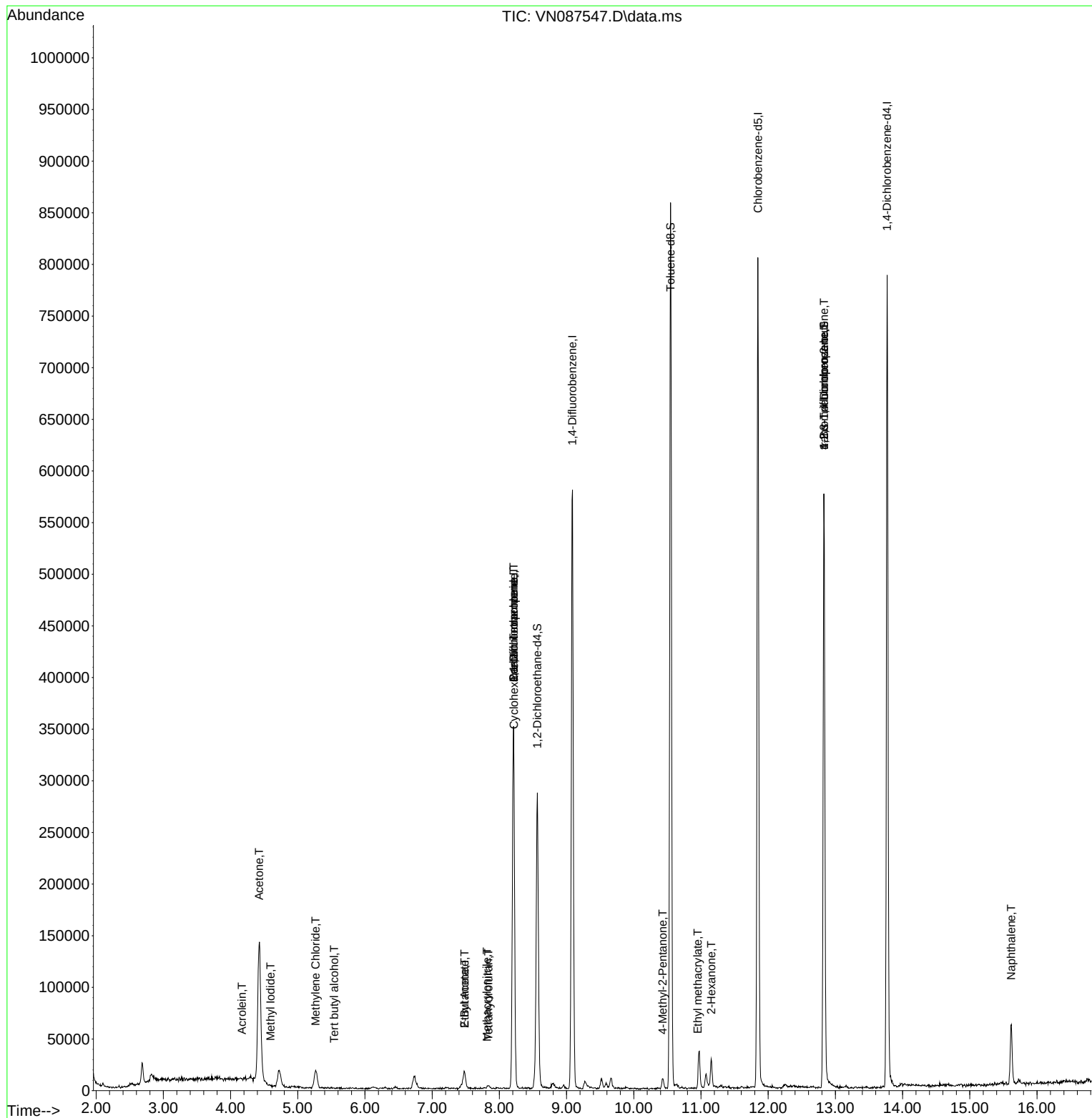
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.212  | 168   | 232594   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.088  | 114   | 466158   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.847 | 117   | 415630   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.770 | 152   | 190959   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.565  | 65    | 235893   | 59.771   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 119.540% |
| 35) Dibromofluoromethane      | 8.165  | 113   | 53       | 0.016    | ug/l   | 0.02     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 0.040%#  |
| 50) Toluene-d8                | 10.547 | 98    | 563549   | 49.131   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 98.260%  |
| 62) 4-Bromofluorobenzene      | 12.829 | 95    | 204081   | 48.158   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 96.320%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          |        | Qvalue   |
| 10) Methyl Iodide             | 4.594  | 142   | 173      | 5.695    | ug/l # | 40       |
| 11) Tert butyl alcohol        | 5.541  | 59    | 745      | 0.994    | ug/l # | 72       |
| 13) Acrolein                  | 4.171  | 56    | 766      | 1.274    | ug/l   | 96       |
| 16) Acetone                   | 4.424  | 43    | 272714   | 147.376  | ug/l   | 100      |
| 20) Methylene Chloride        | 5.265  | 84    | 12992    | 3.559    | ug/l # | 75       |
| 25) 2-Butanone                | 7.482  | 43    | 26525    | 9.277    | ug/l   | 96       |
| 29) Tetrahydrofuran           | 7.835  | 42    | 1394     | 0.751    | ug/l # | 51       |
| 31) Cyclohexane               | 8.218  | 56    | 7381     | 1.521    | ug/l # | 31       |
| 36) 1,1-Dichloropropene       | 8.212  | 75    | 24828    | 5.844    | ug/l # | 48       |
| 37) Ethyl Acetate             | 7.482  | 43    | 26525    | 4.323    | ug/l # | 70       |
| 38) Carbon Tetrachloride      | 8.212  | 117   | 27535    | 5.884    | ug/l # | 13       |
| 41) Methacrylonitrile         | 7.818  | 41    | 2053     | 0.640    | ug/l # | 32       |
| 51) 4-Methyl-2-Pentanone      | 10.429 | 43    | 8865     | 1.472    | ug/l # | 83       |
| 56) Ethyl methacrylate        | 10.953 | 69    | 55       | 0.645    | ug/l # | 24       |
| 59) 2-Hexanone                | 11.153 | 43    | 22165    | 5.546    | ug/l # | 25       |
| 76) 1,2,3-Trichloropropane    | 12.829 | 75    | 118373   | 27.644   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.829 | 75    | 118373   | 75.638   | ug/l # | 8        |
| 95) Naphthalene               | 15.617 | 128   | 51622    | 4.280    | ug/l   | 99       |
| -----                         |        |       |          |          |        |          |

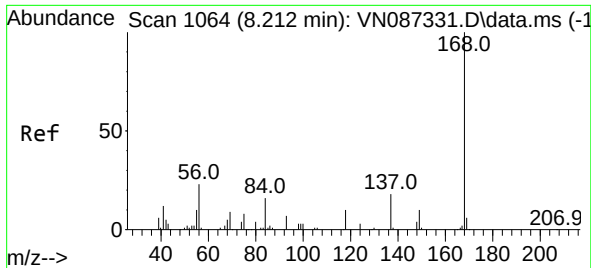
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

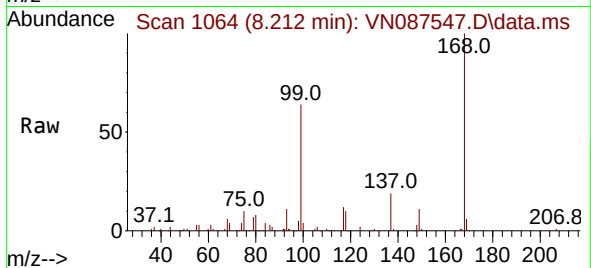
Quant Time: Aug 14 04:07:12 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071625W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 17 02:56:13 2025  
Response via : Initial Calibration



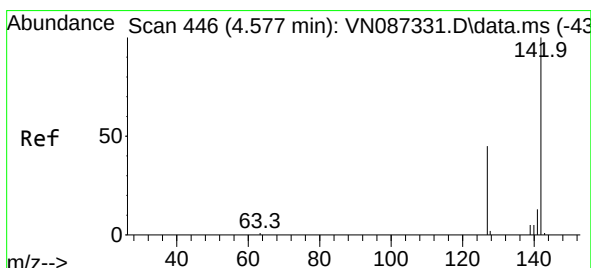
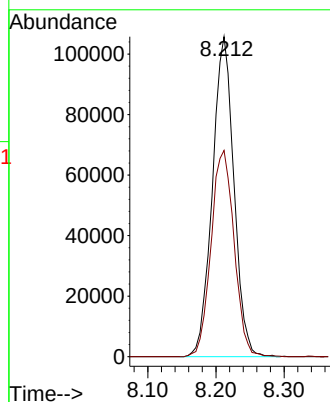
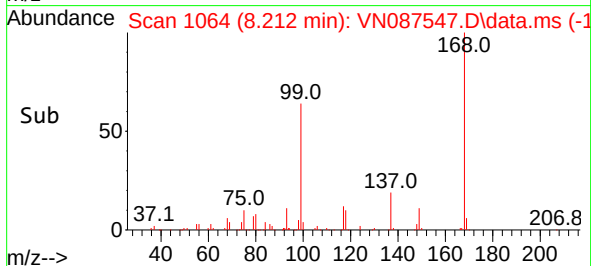


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.212 min Scan# 1064  
Delta R.T. -0.000 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

Instrument :  
MSVOA\_N  
ClientSampleId :

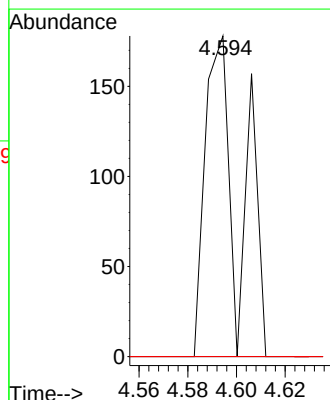
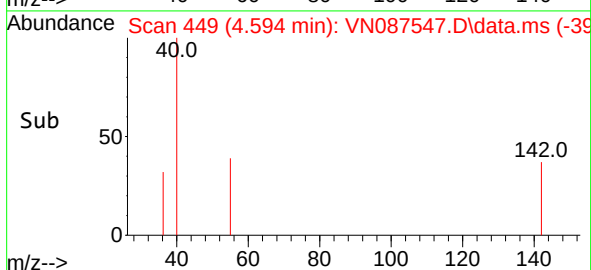
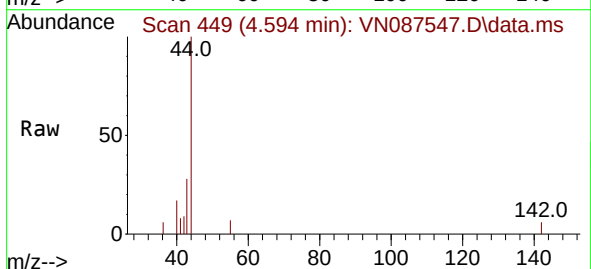


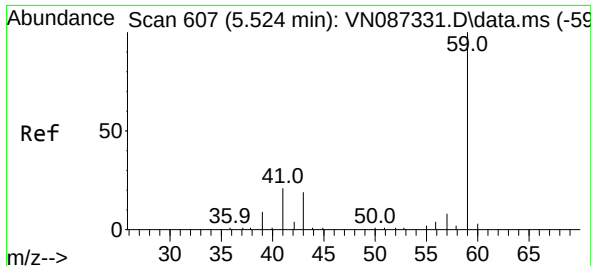
Tgt Ion:168 Resp: 232594  
Ion Ratio Lower Upper  
168 100  
99 64.4 47.9 71.9



#10  
Methyl Iodide  
Concen: 5.695 ug/l  
RT: 4.594 min Scan# 449  
Delta R.T. 0.017 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

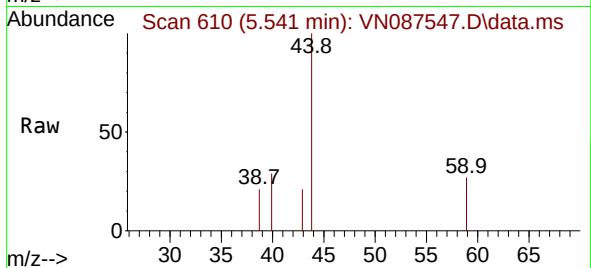
Tgt Ion:142 Resp: 173  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.7 53.5#  
141 0.0 10.4 15.6#



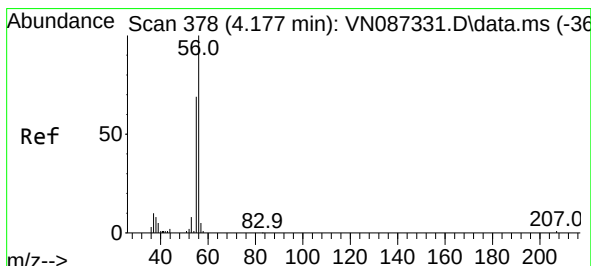
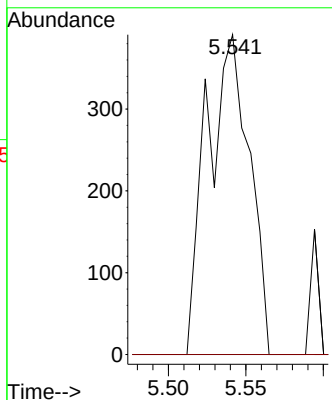
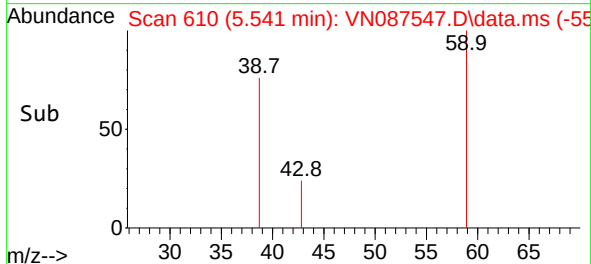


#11  
Tert butyl alcohol  
Concen: 0.994 ug/l  
RT: 5.541 min Scan# 610  
Delta R.T. 0.018 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

Instrument :  
MSVOA\_N  
ClientSampleId :

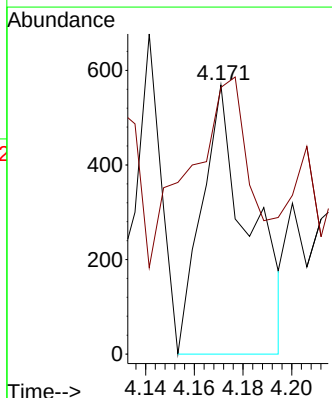
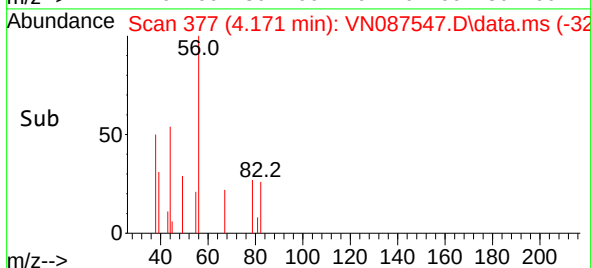
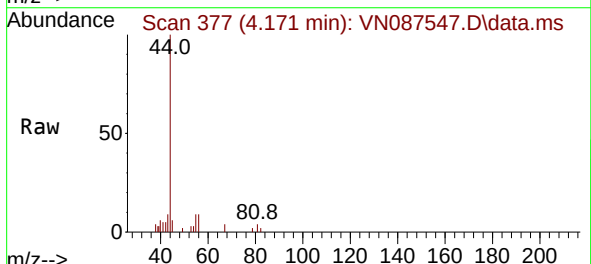


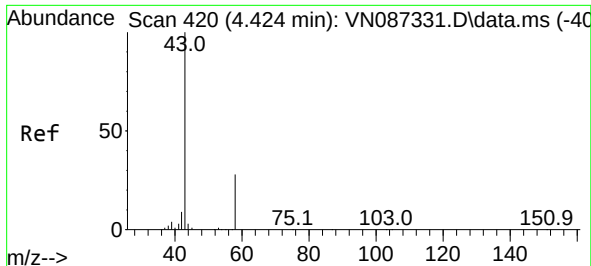
Tgt Ion: 59 Resp: 745  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#13  
Acrolein  
Concen: 1.274 ug/l  
RT: 4.171 min Scan# 377  
Delta R.T. -0.006 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

Tgt Ion: 56 Resp: 766  
Ion Ratio Lower Upper  
56 100  
55 67.1 56.2 84.4

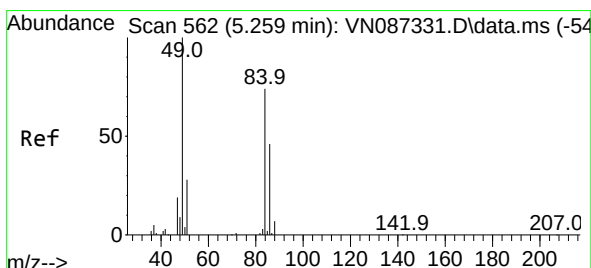
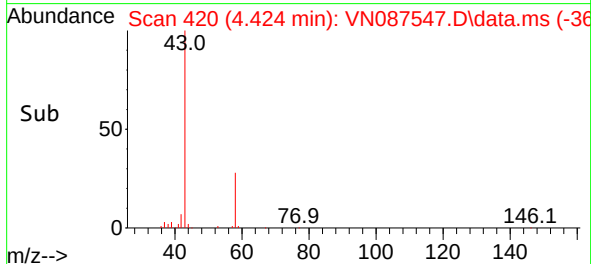
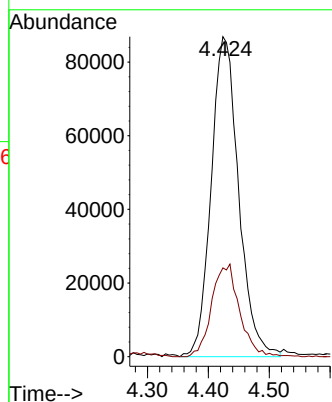
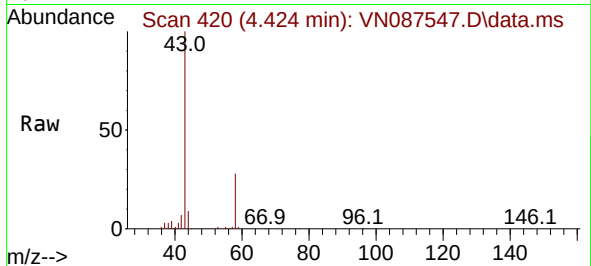




#16  
Acetone  
Concen: 147.376 ug/l  
RT: 4.424 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

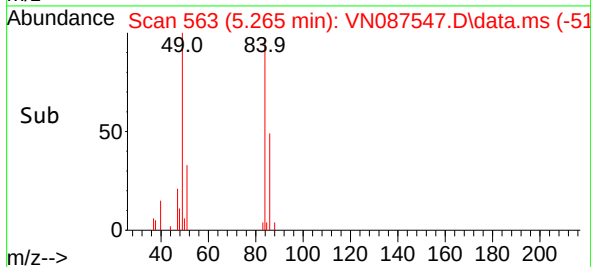
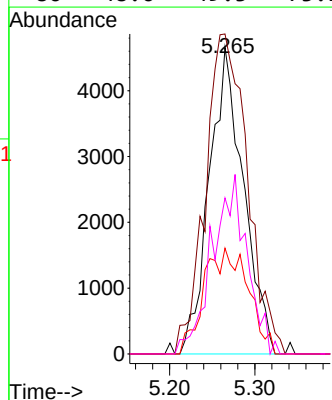
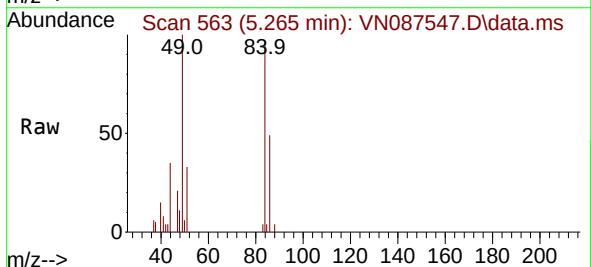
Instrument :  
MSVOA\_N  
ClientSampleId :

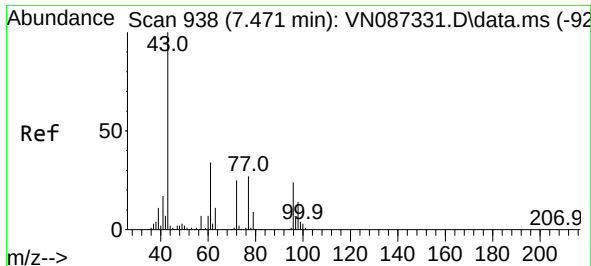
Tgt Ion: 43 Resp: 272714  
Ion Ratio Lower Upper  
43 100  
58 27.7 22.3 33.5



#20  
Methylene Chloride  
Concen: 3.559 ug/l  
RT: 5.265 min Scan# 563  
Delta R.T. 0.006 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

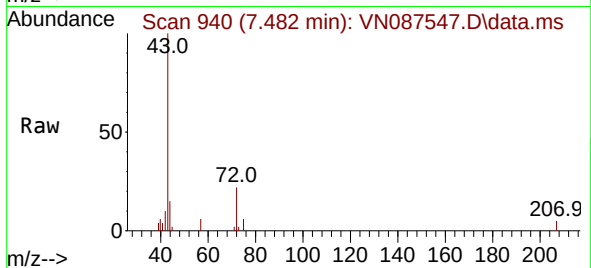
Tgt Ion: 84 Resp: 12992  
Ion Ratio Lower Upper  
84 100  
49 95.2 107.5 161.3#  
51 33.0 30.2 45.2  
86 48.6 49.3 73.9#



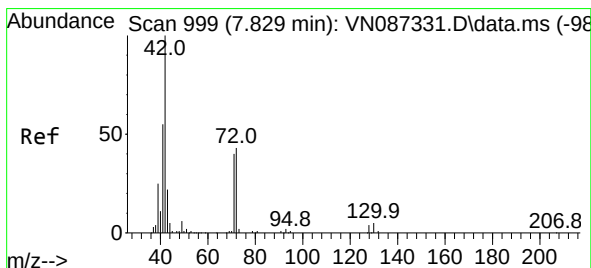
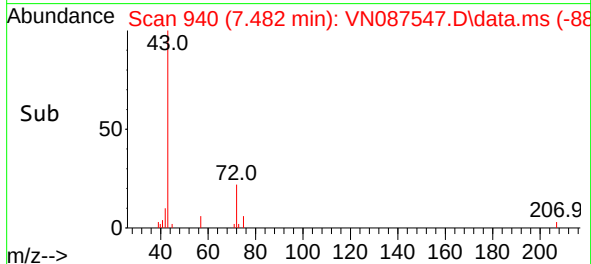
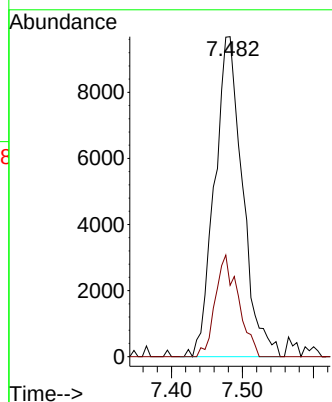


#25  
2-Butanone  
Concen: 9.277 ug/l  
RT: 7.482 min Scan# 94  
Delta R.T. 0.012 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

Instrument :  
MSVOA\_N  
ClientSampleId :

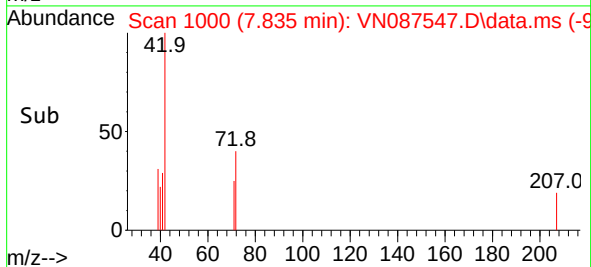
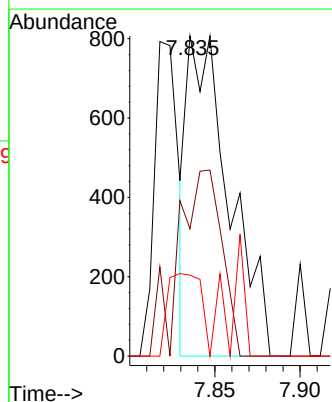
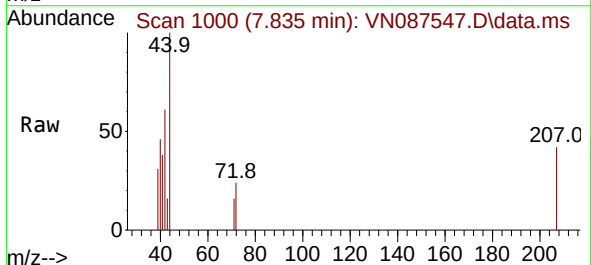


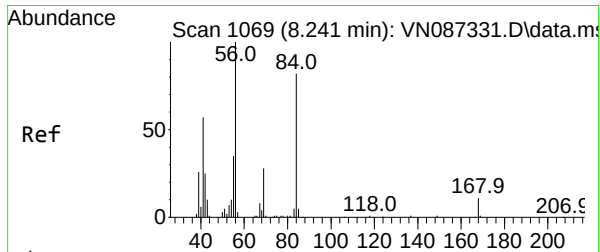
Tgt Ion: 43 Resp: 26525  
Ion Ratio Lower Upper  
43 100  
72 22.3 19.6 29.4



#29  
Tetrahydrofuran  
Concen: 0.751 ug/l  
RT: 7.835 min Scan# 1000  
Delta R.T. 0.006 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

Tgt Ion: 42 Resp: 1394  
Ion Ratio Lower Upper  
42 100  
72 0.0 33.4 50.0#  
71 20.3 31.2 46.8#

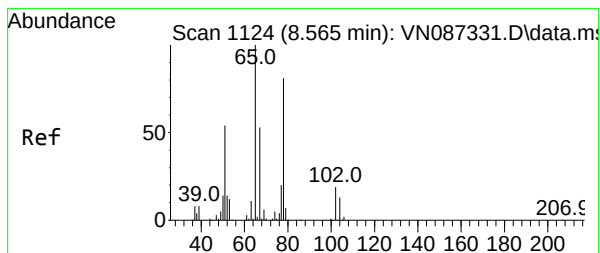
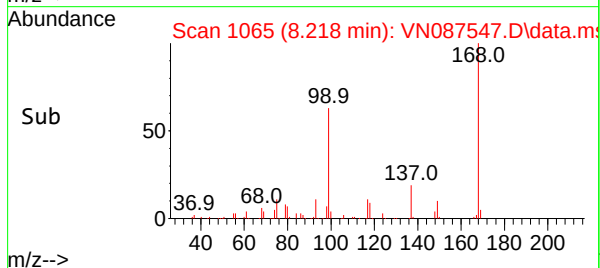
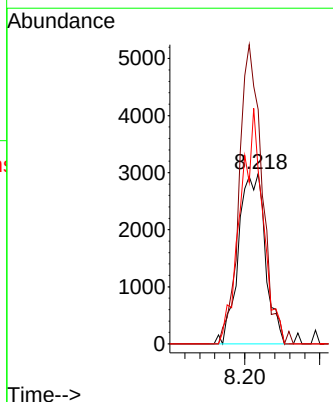
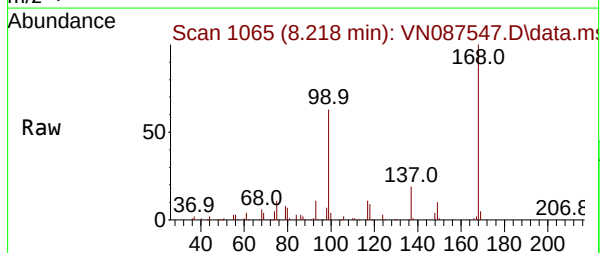




#31  
Cyclohexane  
Concen: 1.521 ug/l  
RT: 8.218 min Scan# 1  
Delta R.T. -0.024 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

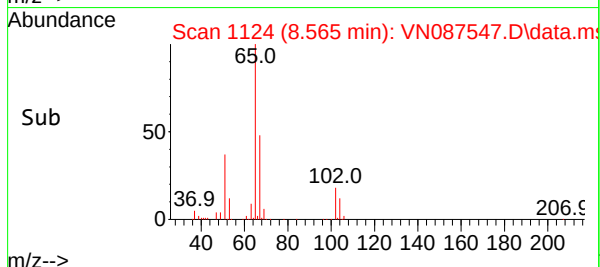
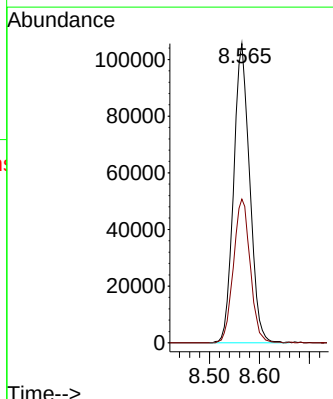
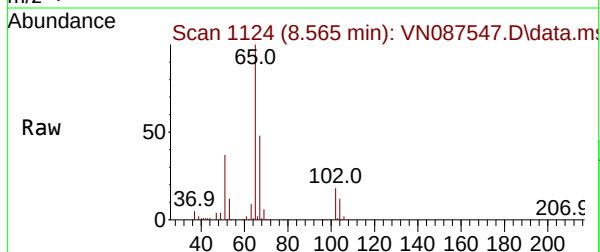
Instrument :  
MSVOA\_N  
ClientSampleId :

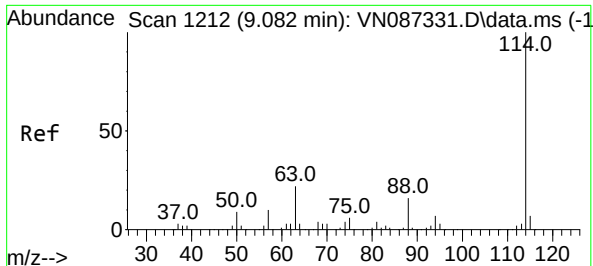
Tgt Ion: 56 Resp: 7381  
Ion Ratio Lower Upper  
56 100  
69 137.5 22.7 34.1#  
84 101.6 65.8 98.6#



#33  
1,2-Dichloroethane-d4  
Concen: 59.771 ug/l  
RT: 8.565 min Scan# 1124  
Delta R.T. 0.000 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

Tgt Ion: 65 Resp: 235893  
Ion Ratio Lower Upper  
65 100  
67 50.0 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087547.D

Acq: 13 Aug 2025 19:40

Instrument :

MSVOA\_N

ClientSampleId :

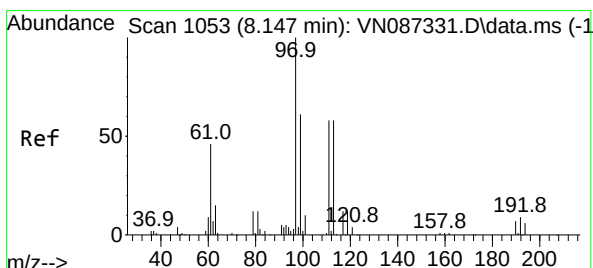
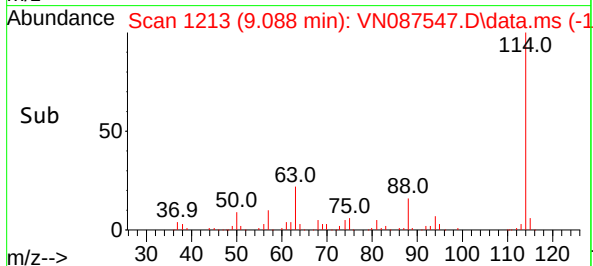
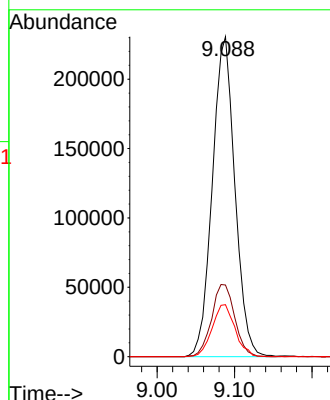
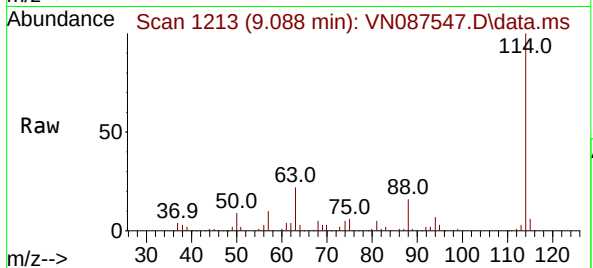
Tgt Ion:114 Resp: 466158

Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.6

88 16.3 0.0 32.8



#35

Dibromofluoromethane

Concen: 0.016 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.018 min

Lab File: VN087547.D

Acq: 13 Aug 2025 19:40

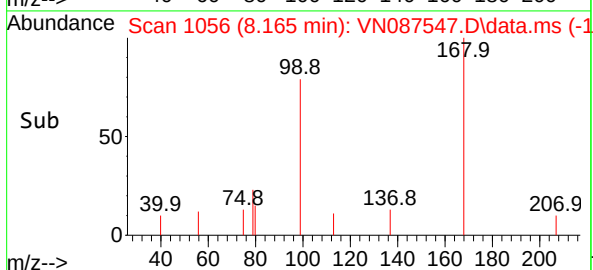
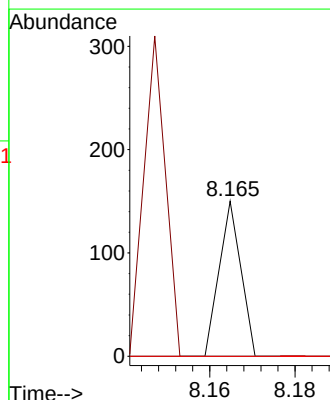
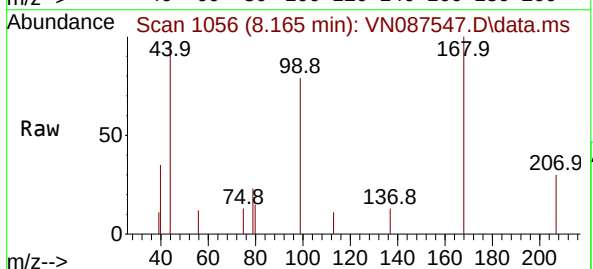
Tgt Ion:113 Resp: 53

Ion Ratio Lower Upper

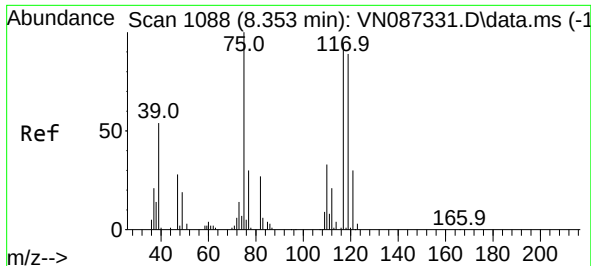
113 100

111 205.7 82.5 123.7#

192 0.0 13.7 20.5#







#36

1,1-Dichloropropene

Concen: 5.844 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

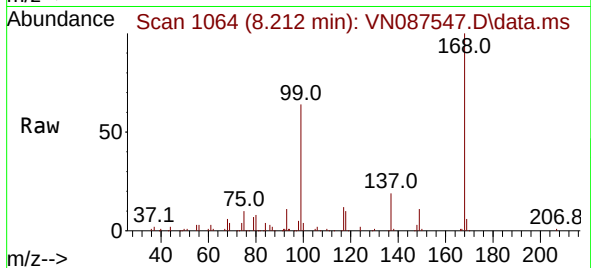
Lab File: VN087547.D

Acq: 13 Aug 2025 19:40

Instrument :

MSVOA\_N

ClientSampleId :



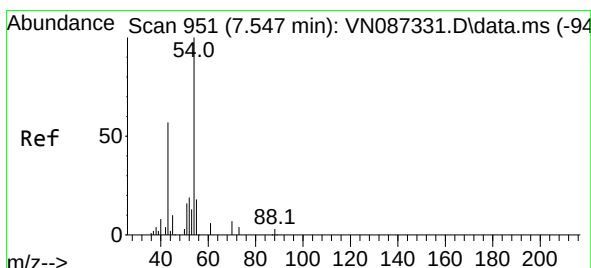
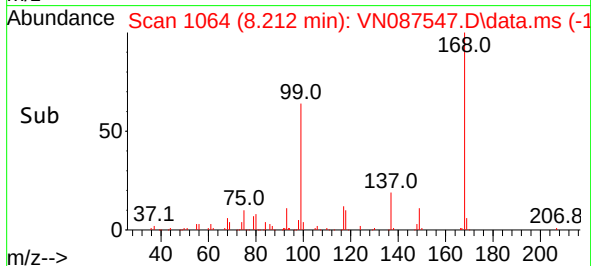
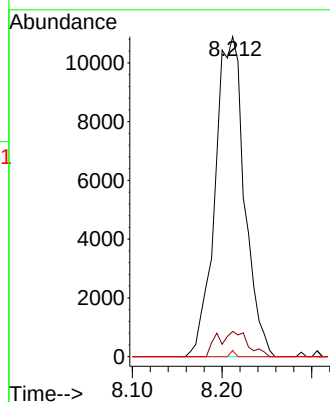
Tgt Ion: 75 Resp: 24828

Ion Ratio Lower Upper

75 100

110 5.8 16.7 50.1#

77 0.3 25.2 37.8#



#37

Ethyl Acetate

Concen: 4.323 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.065 min

Lab File: VN087547.D

Acq: 13 Aug 2025 19:40

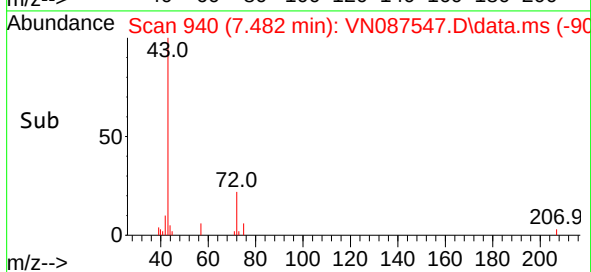
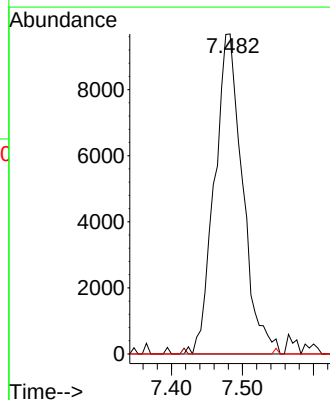
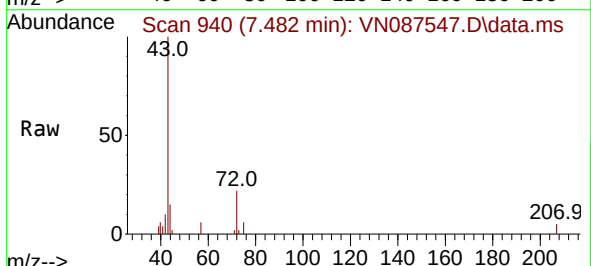
Tgt Ion: 43 Resp: 26525

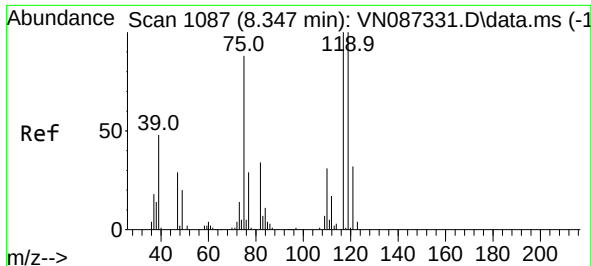
Ion Ratio Lower Upper

43 100

61 0.0 10.9 16.3#

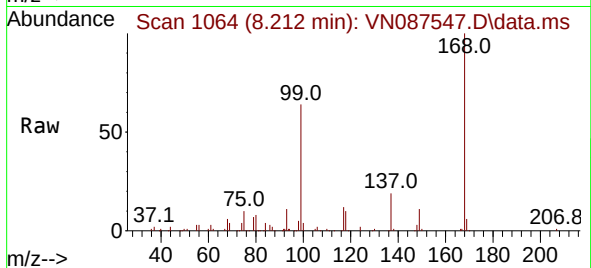
70 0.0 7.4 11.0#



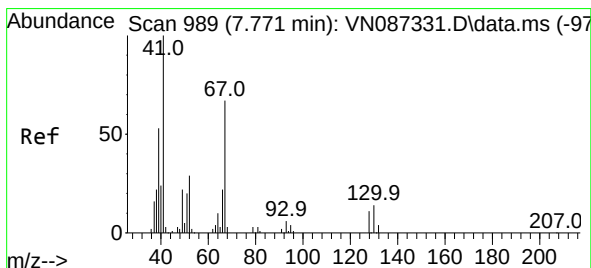
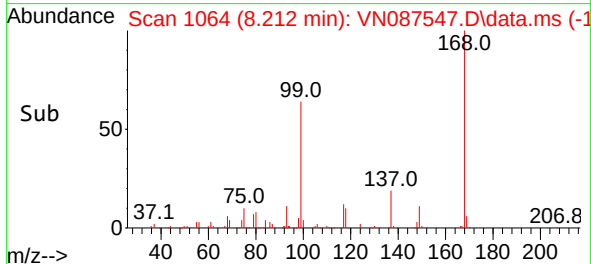
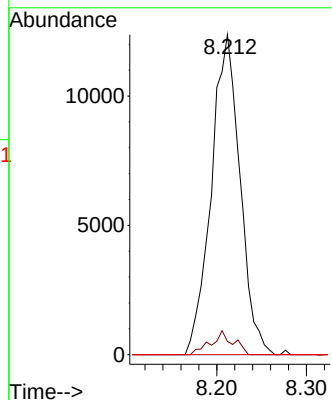


#38  
Carbon Tetrachloride  
Concen: 5.884 ug/l  
RT: 8.212 min Scan# 1064  
Delta R.T. -0.135 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

Instrument :  
MSVOA\_N  
ClientSampleId :

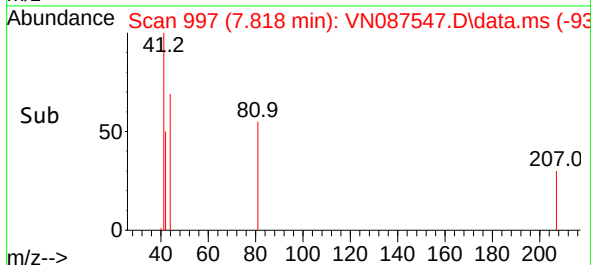
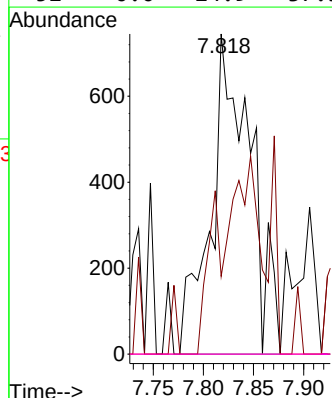
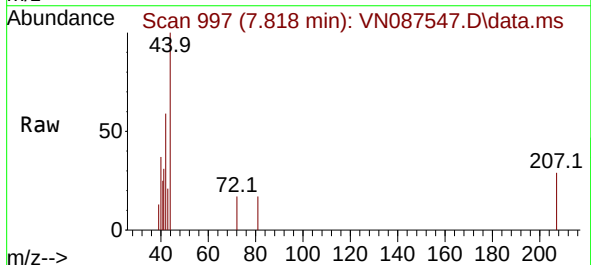


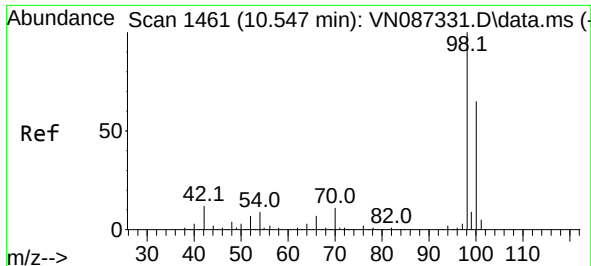
Tgt Ion: 117 Resp: 27535  
Ion Ratio Lower Upper  
117 100  
119 4.2 80.2 120.2#  
121 0.0 25.4 38.2#



#41  
Methacrylonitrile  
Concen: 0.640 ug/l  
RT: 7.818 min Scan# 997  
Delta R.T. 0.047 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

Tgt Ion: 41 Resp: 2053  
Ion Ratio Lower Upper  
41 100  
39 16.9 43.4 65.0#  
67 0.0 55.1 82.7#  
52 0.0 24.9 37.3#

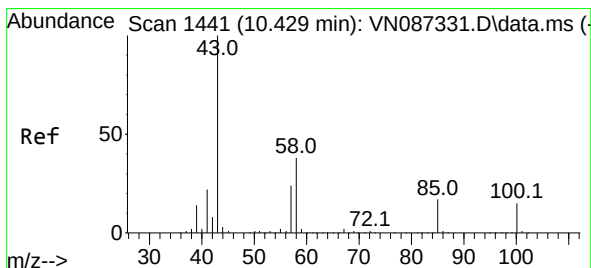
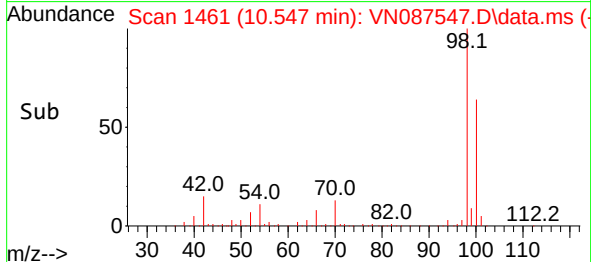
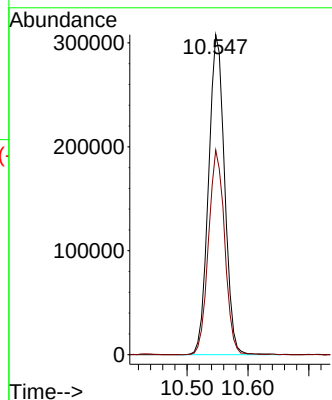
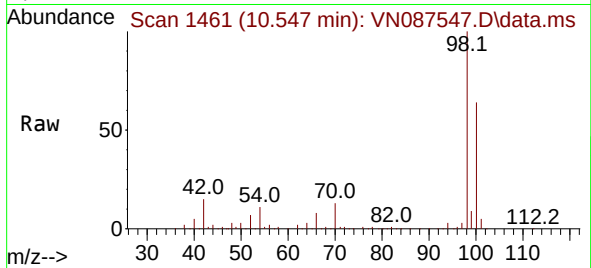




#50  
Toluene-d8  
Concen: 49.131 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

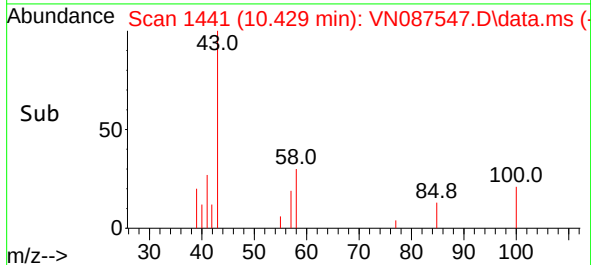
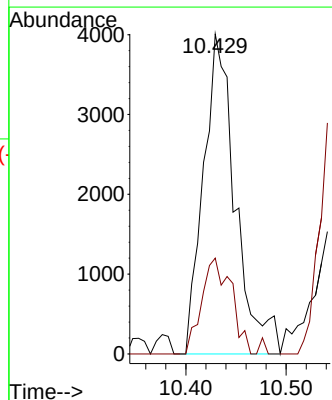
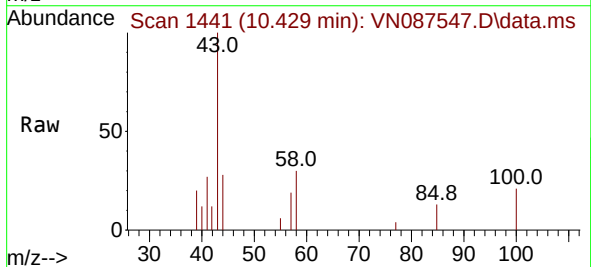
Instrument :  
MSVOA\_N  
ClientSampleId :

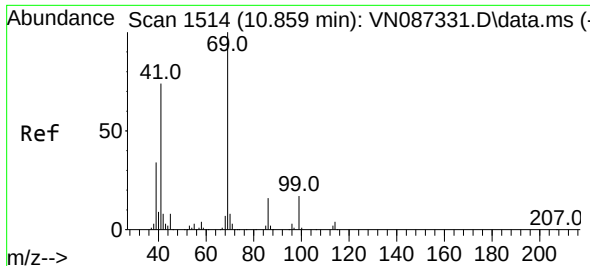
Tgt Ion: 98 Resp: 563549  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.1 78.1



#51  
4-Methyl-2-Pentanone  
Concen: 1.472 ug/l  
RT: 10.429 min Scan# 1441  
Delta R.T. 0.000 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

Tgt Ion: 43 Resp: 8865  
Ion Ratio Lower Upper  
43 100  
58 27.9 30.8 46.2#

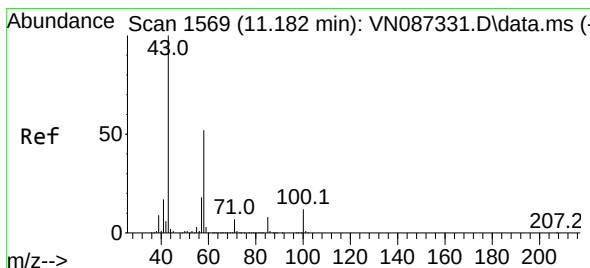
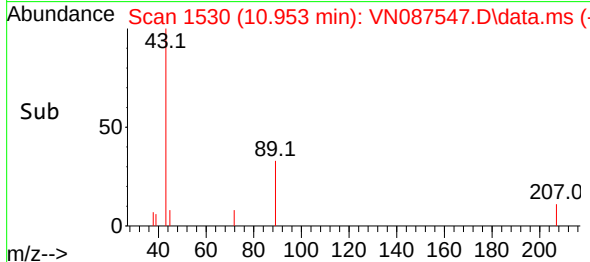
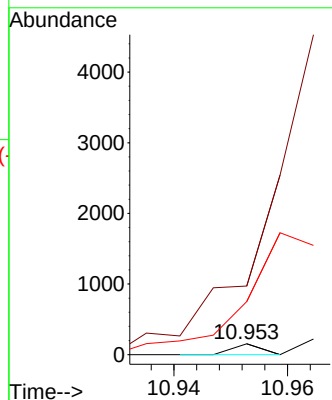
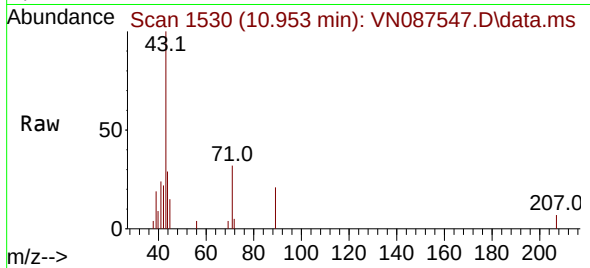




#56  
Ethyl methacrylate  
Concen: 0.645 ug/l  
RT: 10.953 min Scan# 1530  
Delta R.T. 0.094 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

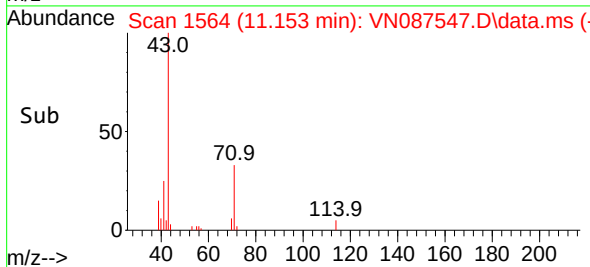
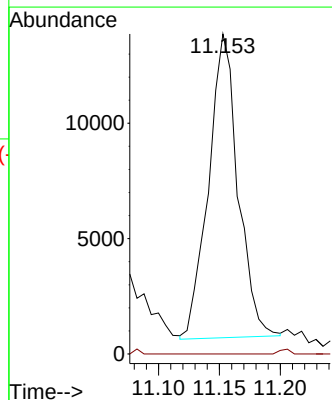
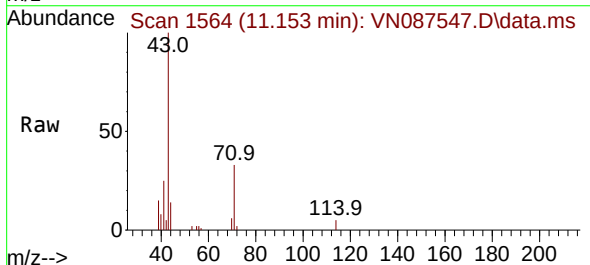
Instrument :  
MSVOA\_N  
ClientSampleId :

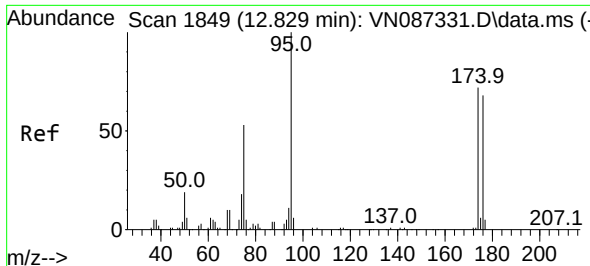
Tgt Ion: 69 Resp: 55  
Ion Ratio Lower Upper  
69 100  
41 0.0 55.1 82.7#  
39 0.0 27.9 41.9#



#59  
2-Hexanone  
Concen: 5.546 ug/l  
RT: 11.153 min Scan# 1564  
Delta R.T. -0.029 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

Tgt Ion: 43 Resp: 22165  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.7 80.0#

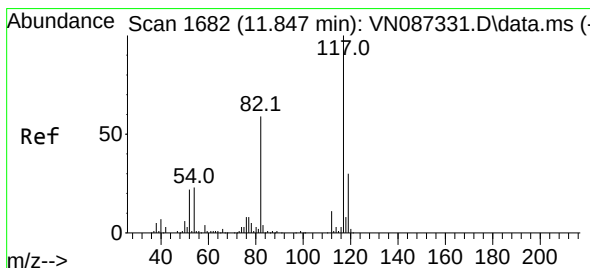
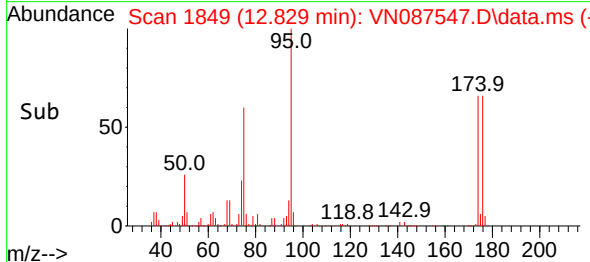
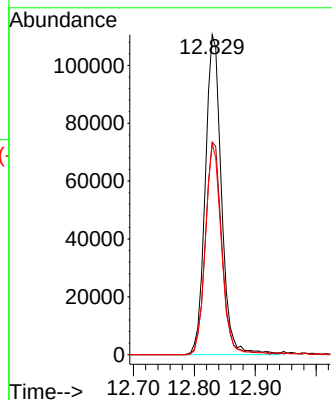
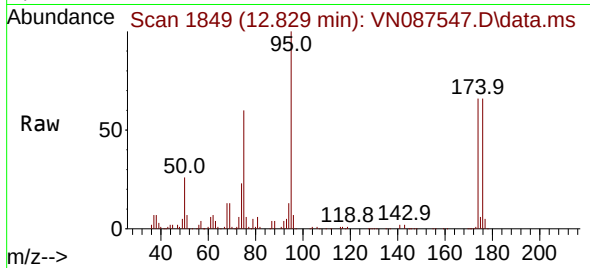




#62  
4-Bromofluorobenzene  
Concen: 48.158 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

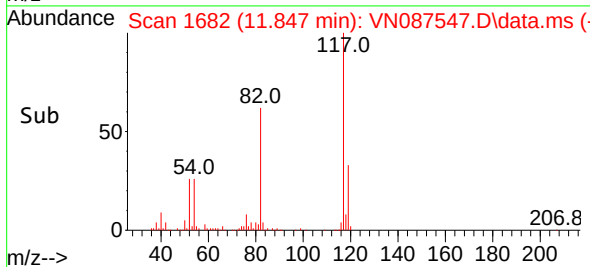
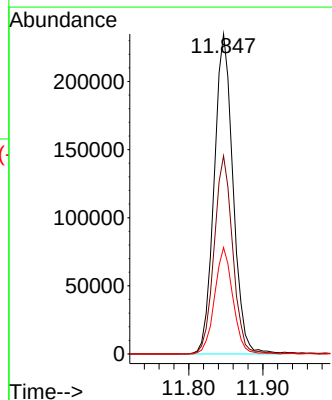
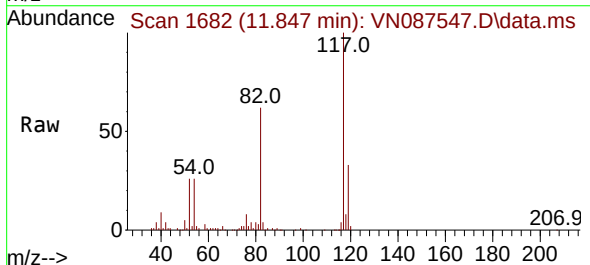
Instrument :  
MSVOA\_N  
ClientSampleId :

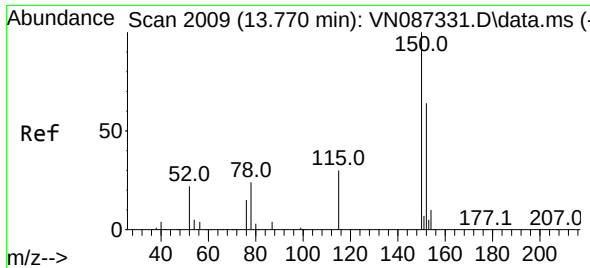
Tgt Ion: 95 Resp: 204081  
Ion Ratio Lower Upper  
95 100  
174 67.2 0.0 149.4  
176 65.4 0.0 141.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. -0.000 min  
Lab File: VN087547.D  
Acq: 13 Aug 2025 19:40

Tgt Ion: 117 Resp: 415630  
Ion Ratio Lower Upper  
117 100  
82 61.9 47.4 71.2  
119 33.2 23.8 35.8

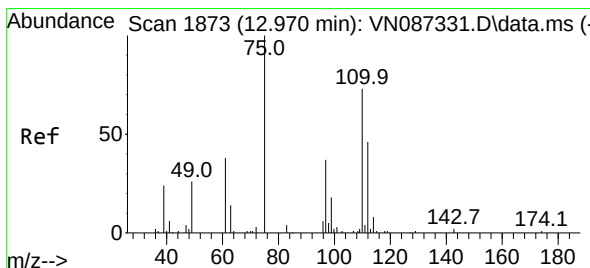
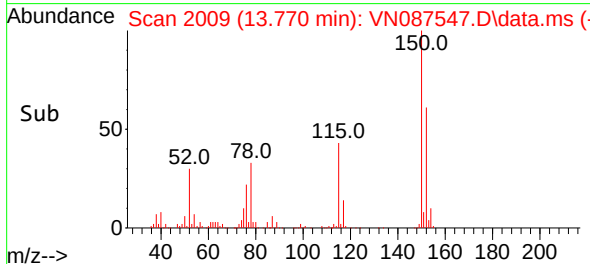
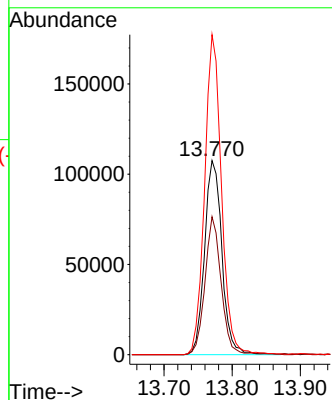
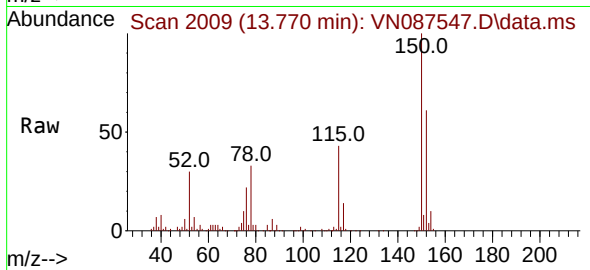




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.770 min Scan# 2009  
 Delta R.T. 0.000 min  
 Lab File: VN087547.D  
 Acq: 13 Aug 2025 19:40

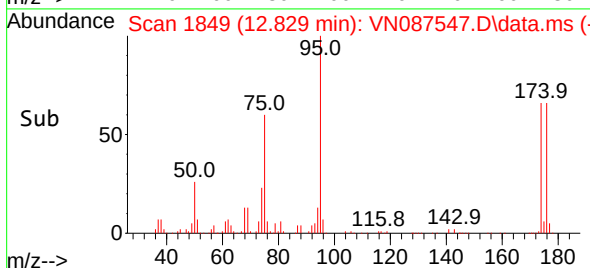
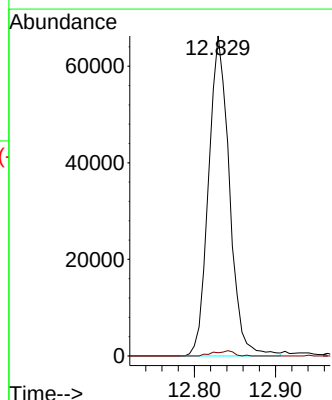
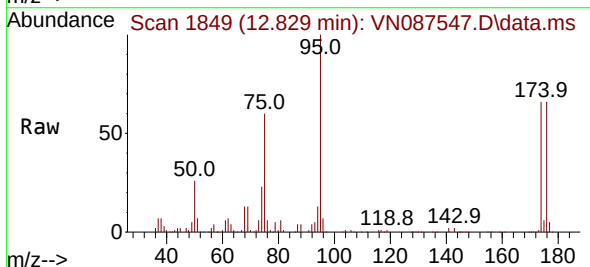
Instrument :  
 MSVOA\_N  
 ClientSampleId :

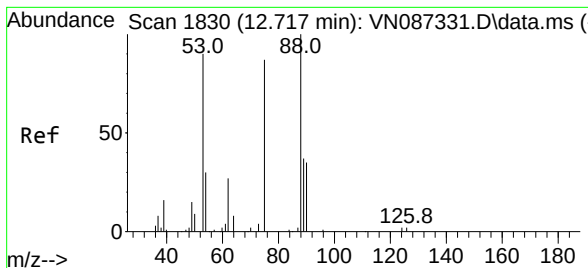
Tgt Ion:152 Resp: 190959  
 Ion Ratio Lower Upper  
 152 100  
 115 66.0 31.1 93.5  
 150 159.8 0.0 349.0



#76  
 1,2,3-Trichloropropane  
 Concen: 27.644 ug/l  
 RT: 12.829 min Scan# 1849  
 Delta R.T. -0.141 min  
 Lab File: VN087547.D  
 Acq: 13 Aug 2025 19:40

Tgt Ion: 75 Resp: 118373  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 94.5 283.6#

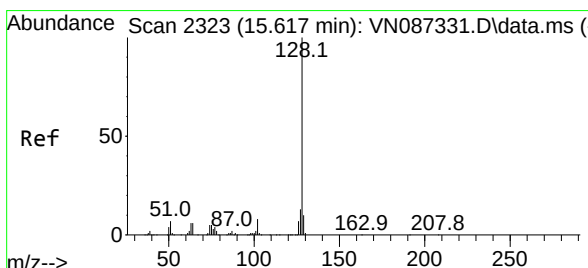
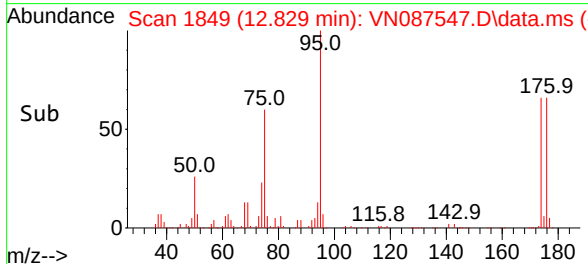
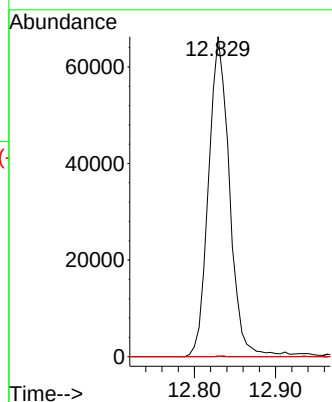
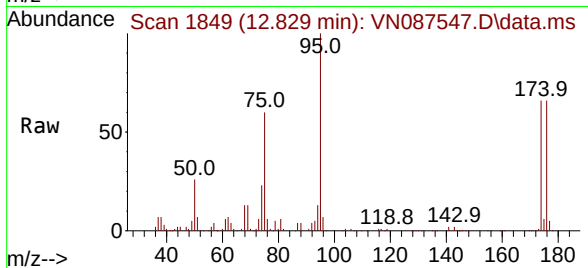




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 75.638 ug/l  
 RT: 12.829 min Scan# 1849  
 Delta R.T. 0.112 min  
 Lab File: VN087547.D  
 Acq: 13 Aug 2025 19:40

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tgt Ion: 75 Resp: 118373  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 83.5 125.3#  
 89 0.1 38.4 57.6#



#95  
 Naphthalene  
 Concen: 4.280 ug/l  
 RT: 15.617 min Scan# 2323  
 Delta R.T. 0.000 min  
 Lab File: VN087547.D  
 Acq: 13 Aug 2025 19:40

Tgt Ion:128 Resp: 51622  
 Ion Ratio Lower Upper  
 128 100  
 127 13.0 10.5 15.7  
 129 10.9 8.4 12.6

