

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081225\  
 Data File : VN087519.D  
 Acq On : 12 Aug 2025 16:57  
 Operator : JC\MD  
 Sample : Q2825-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FB

Quant Time: Aug 13 03:07:50 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

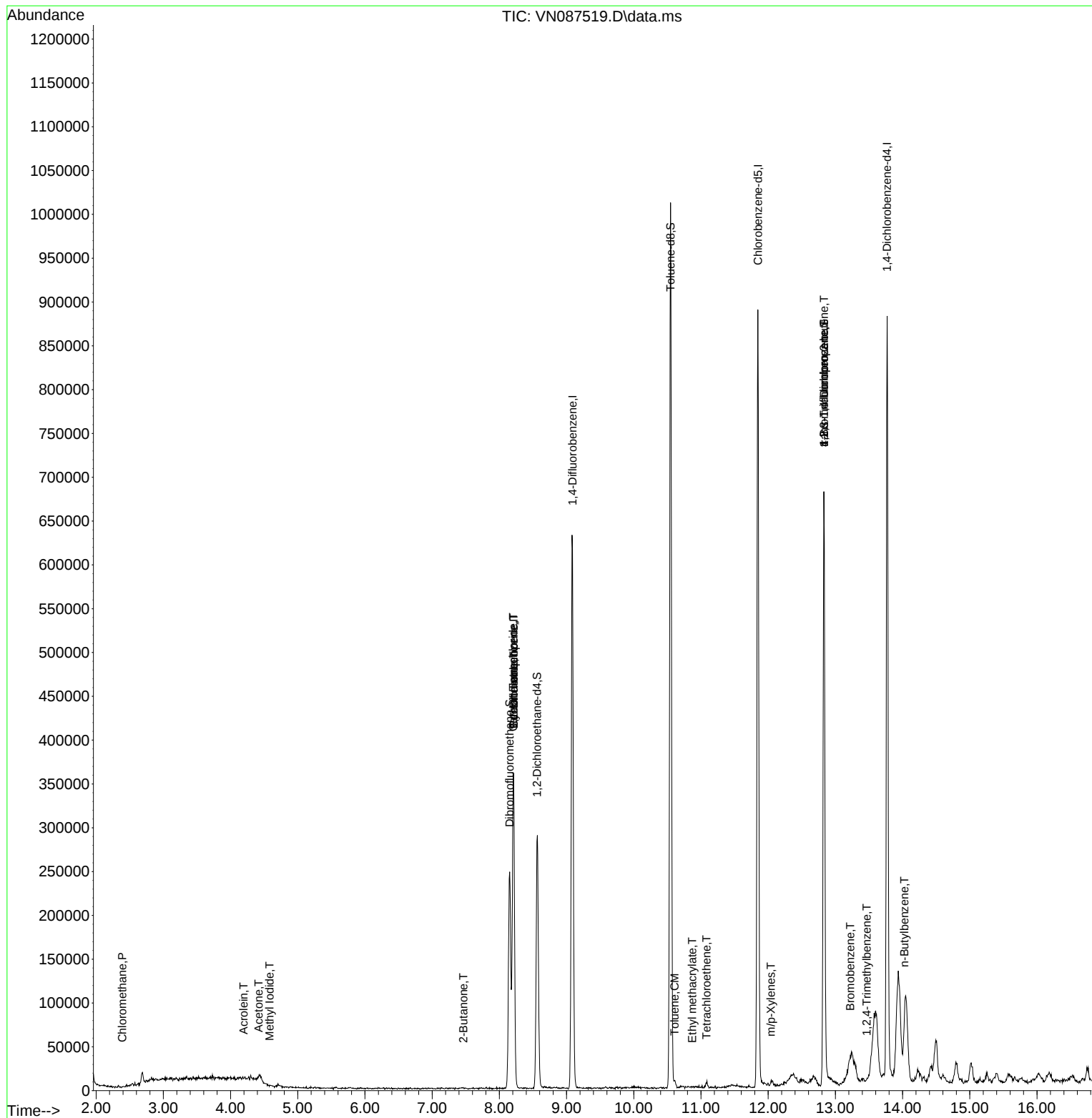
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.212          | 168  | 238840              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.088          | 114  | 519697              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.847         | 117  | 475077              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.770         | 152  | 226791              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.559          | 65   | 246969              | 60.941    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 121.880% |           |        |          |
| 35) Dibromofluoromethane      | 8.153          | 113  | 177605              | 49.543    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 99.080%  |           |        |          |
| 50) Toluene-d8                | 10.547         | 98   | 662552              | 51.812    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 103.620% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.829         | 95   | 243231              | 51.484    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 102.960% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 3) Chloromethane              | 2.389          | 50   | 918                 | 0.288     | ug/l # | 87       |
| 10) Methyl Iodide             | 4.583          | 142  | 87                  | 5.662     | ug/l # | 40       |
| 13) Acrolein                  | 4.194          | 56   | 863                 | 1.397     | ug/l   | 85       |
| 16) Acetone                   | 4.418          | 43   | 9283                | 4.885     | ug/l   | 94       |
| 20) Methylene Chloride        | 5.271          | 84   | 430                 | Below Cal | #      | 4        |
| 25) 2-Butanone                | 7.465          | 43   | 596                 | 0.203     | ug/l # | 51       |
| 31) Cyclohexane               | 8.212          | 56   | 7817                | 1.569     | ug/l # | 34       |
| 36) 1,1-Dichloropropene       | 8.212          | 75   | 24382               | 5.148     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.206          | 117  | 28730               | 5.507     | ug/l # | 14       |
| 52) Toluene                   | 10.606         | 92   | 2432                | 0.261     | ug/l   | 84       |
| 56) Ethyl methacrylate        | 10.871         | 69   | 77                  | 0.647     | ug/l # | 1        |
| 64) Tetrachloroethene         | 11.082         | 164  | 1543                | 0.505     | ug/l # | 36       |
| 68) m/p-Xylenes               | 12.041         | 106  | 1383                | 0.210     | ug/l # | 39       |
| 76) 1,2,3-Trichloropropane    | 12.829         | 75   | 141749              | 27.873    | ug/l # | 1        |
| 77) Bromobenzene              | 13.223         | 156  | 9678                | 2.614     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.829         | 75   | 141749              | 76.264    | ug/l # | 8        |
| 84) 1,2,4-Trimethylbenzene    | 13.464         | 105  | 2694                | 0.217     | ug/l   | 88       |
| 89) n-Butylbenzene            | 14.029         | 91   | 2481                | 0.212     | ug/l # | 70       |
| -----                         |                |      |                     |           |        |          |

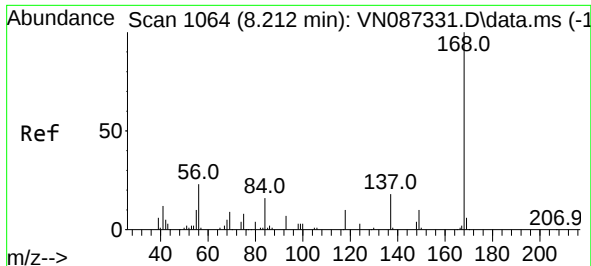
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Jul 17 02:56:13 2025  
Response via : Initial Calibration

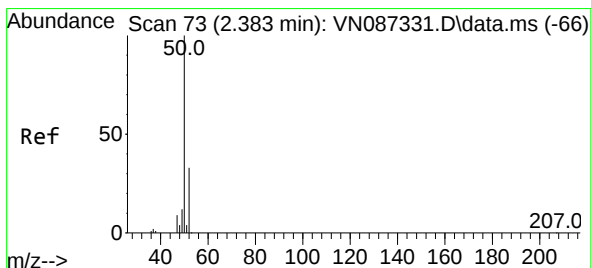
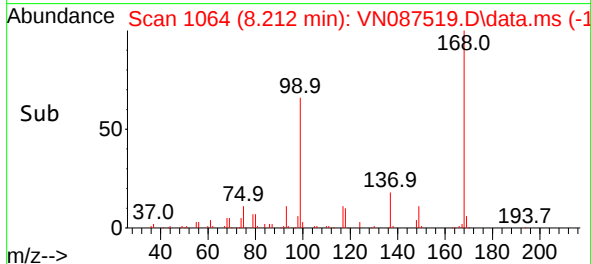
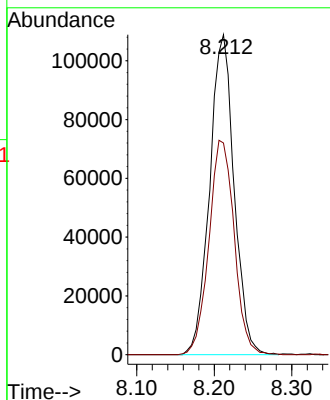
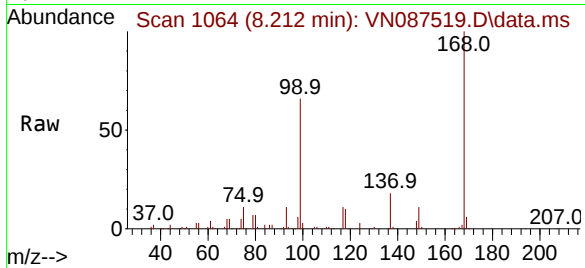




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.212 min Scan# 1064  
Delta R.T. -0.000 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

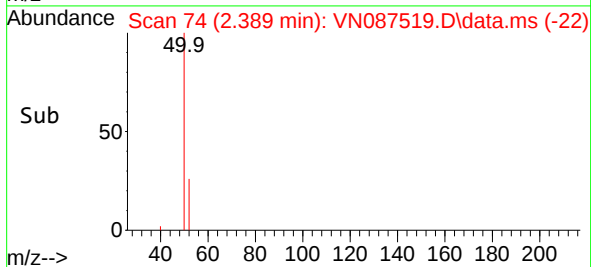
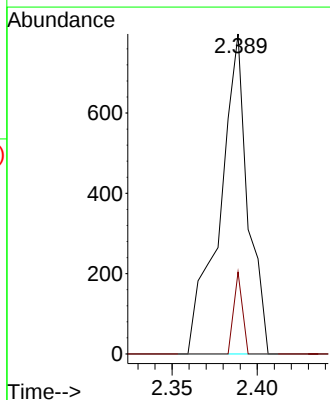
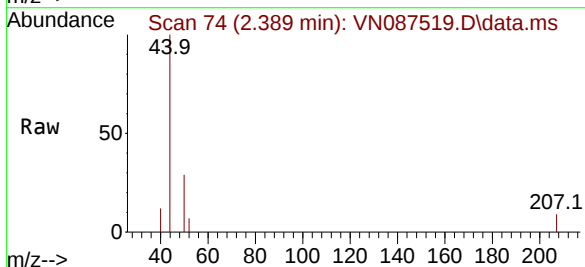
Instrument :  
MSVOA\_N  
ClientSampleId :  
FB

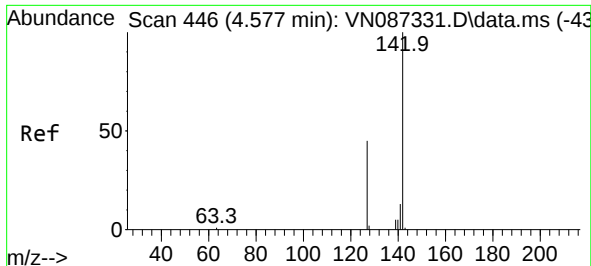
Tgt Ion:168 Resp: 238840  
Ion Ratio Lower Upper  
168 100  
99 66.2 47.9 71.9



#3  
Chloromethane  
Concen: 0.288 ug/l  
RT: 2.389 min Scan# 74  
Delta R.T. 0.006 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

Tgt Ion: 50 Resp: 918  
Ion Ratio Lower Upper  
50 100  
52 25.6 26.3 39.5#





#10

Methyl Iodide

Concen: 5.662 ug/l

RT: 4.583 min Scan# 446

Delta R.T. 0.006 min

Lab File: VN087519.D

Acq: 12 Aug 2025 16:57

Instrument :

MSVOA\_N

ClientSampleId :

FB

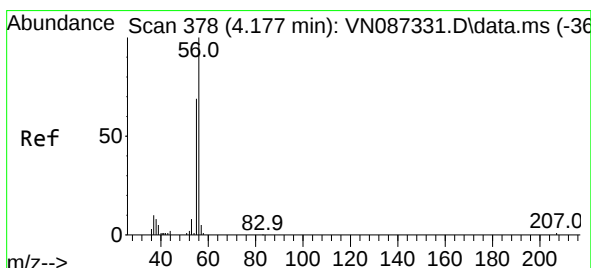
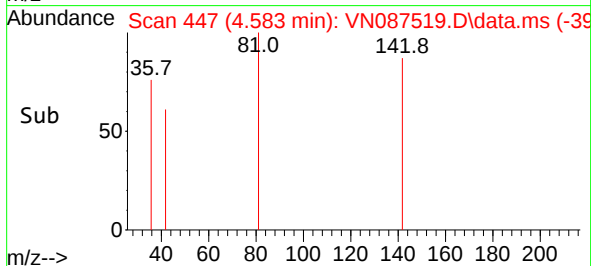
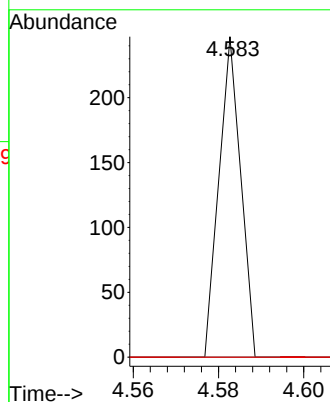
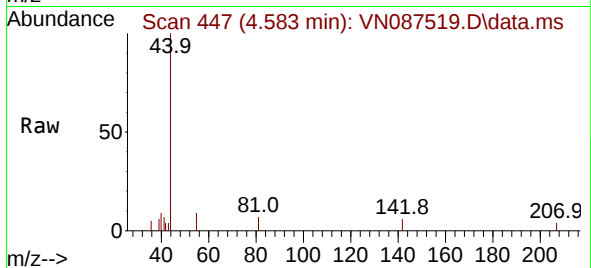
Tgt Ion:142 Resp: 87

Ion Ratio Lower Upper

142 100

127 0.0 35.7 53.5#

141 0.0 10.4 15.6#



#13

Acrolein

Concen: 1.397 ug/l

RT: 4.194 min Scan# 381

Delta R.T. 0.018 min

Lab File: VN087519.D

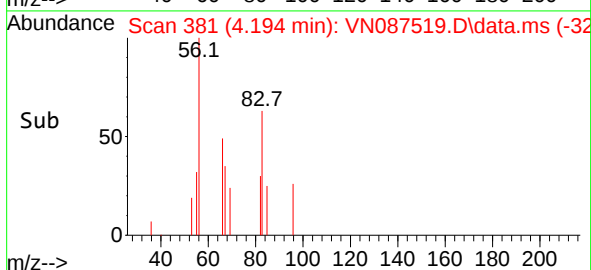
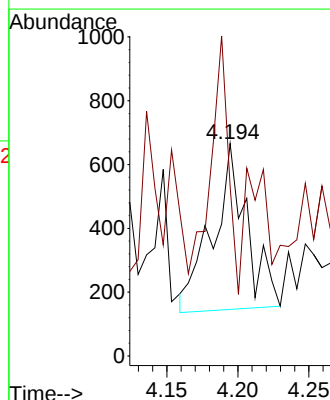
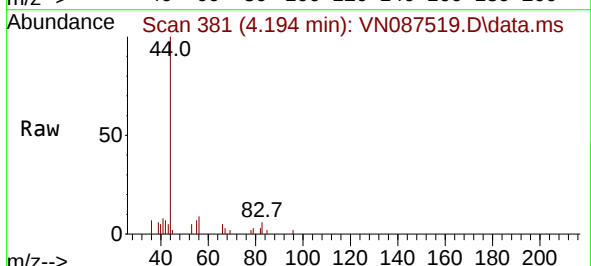
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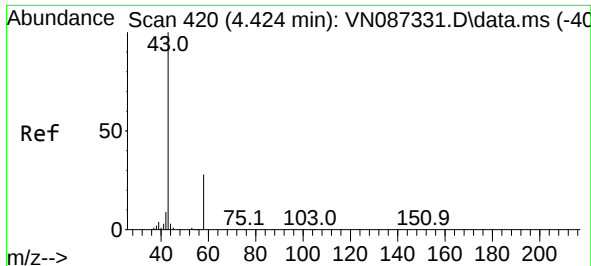
Tgt Ion: 56 Resp: 863

Ion Ratio Lower Upper

56 100

55 82.5 56.2 84.4

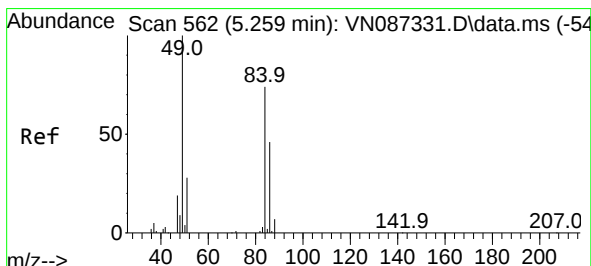
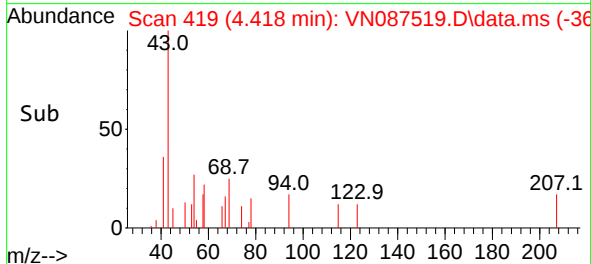
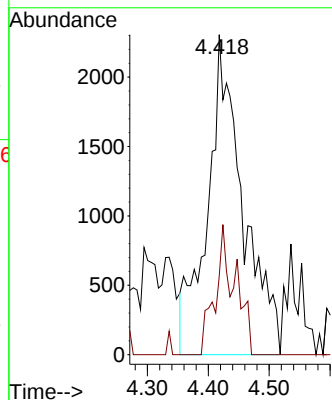
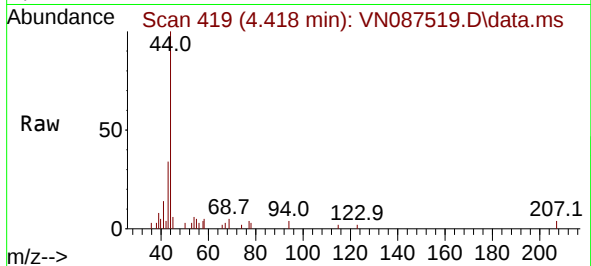




#16  
Acetone  
Concen: 4.885 ug/l  
RT: 4.418 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

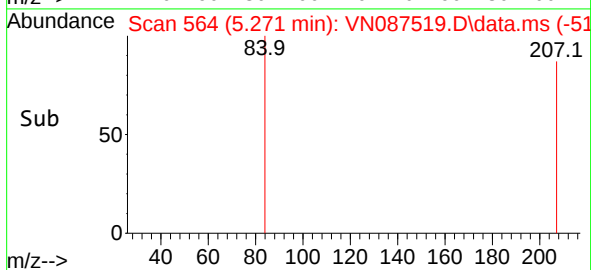
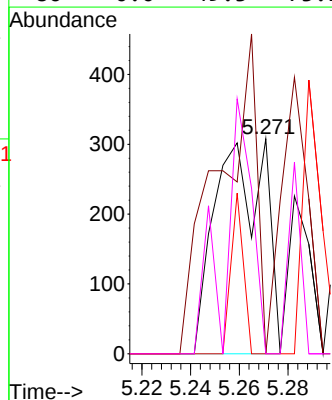
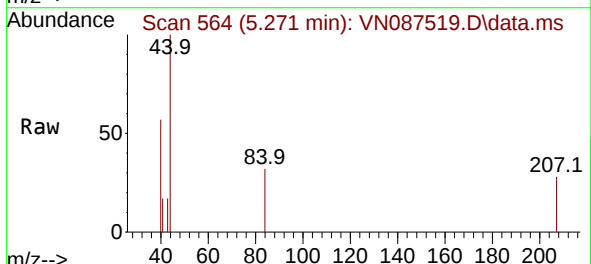
Instrument :  
MSVOA\_N  
ClientSampleId :  
FB

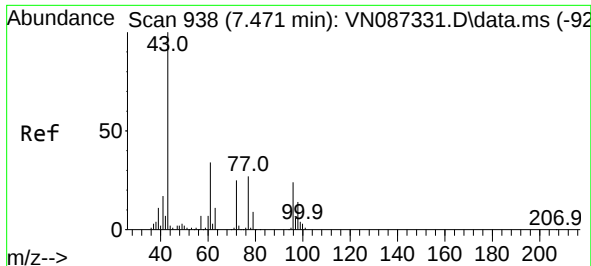
Tgt Ion: 43 Resp: 9283  
Ion Ratio Lower Upper  
43 100  
58 24.5 22.3 33.5



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.271 min Scan# 564  
Delta R.T. 0.012 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

Tgt Ion: 84 Resp: 430  
Ion Ratio Lower Upper  
84 100  
49 0.0 107.5 161.3#  
51 0.0 30.2 45.2#  
86 0.0 49.3 73.9#

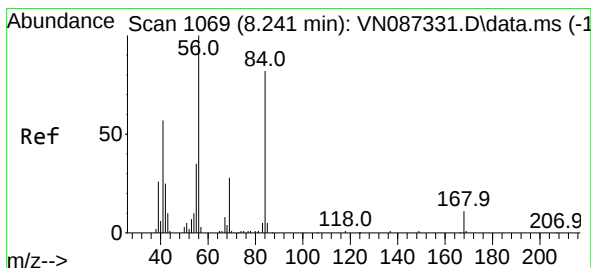
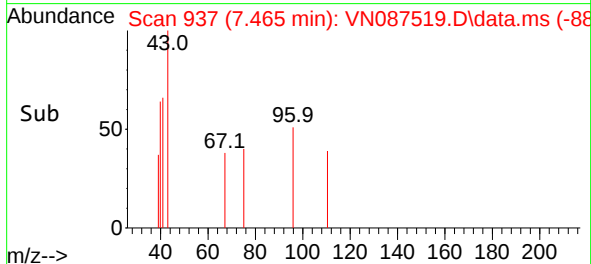
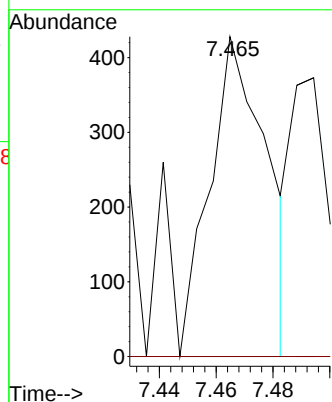
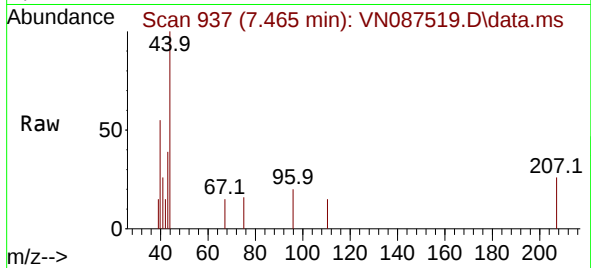




#25  
2-Butanone  
Concen: 0.203 ug/l  
RT: 7.465 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

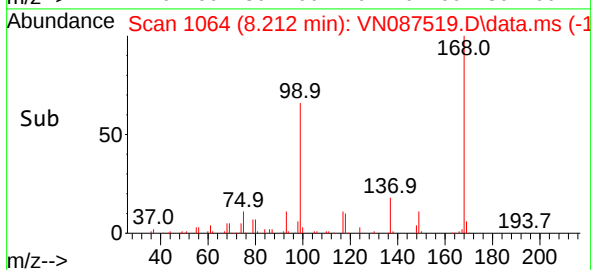
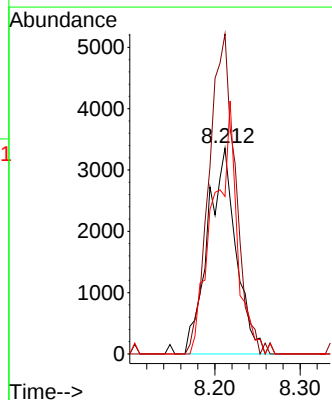
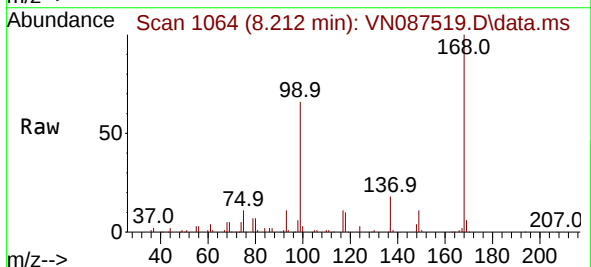
Instrument :  
MSVOA\_N  
ClientSampleId :  
FB

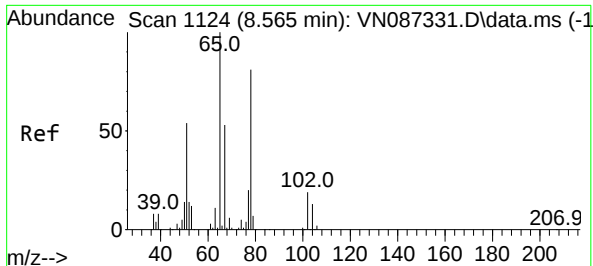
Tgt Ion: 43 Resp: 596  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.6 29.4#



#31  
Cyclohexane  
Concen: 1.569 ug/l  
RT: 8.212 min Scan# 1064  
Delta R.T. -0.029 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

Tgt Ion: 56 Resp: 7817  
Ion Ratio Lower Upper  
56 100  
69 155.5 22.7 34.1#  
84 76.5 65.8 98.6

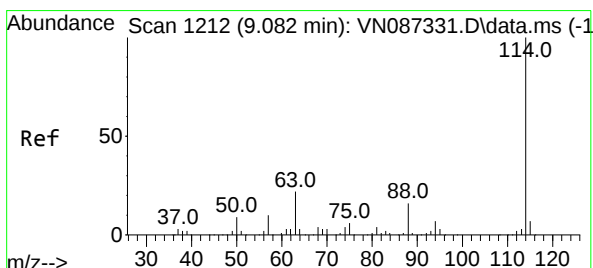
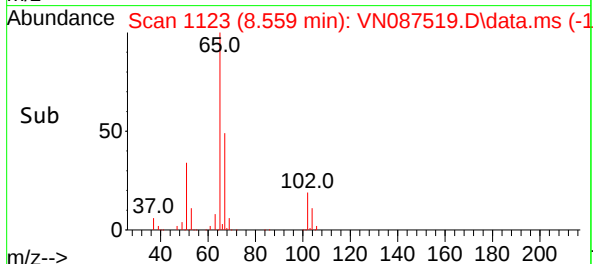
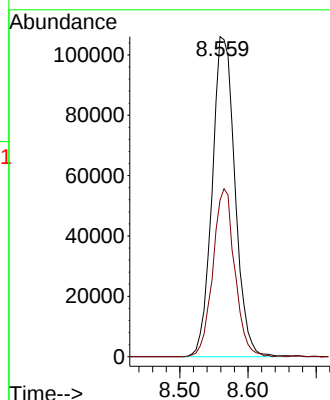
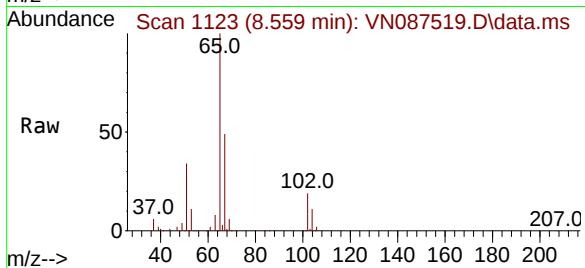




#33  
1,2-Dichloroethane-d4  
Concen: 60.941 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.006 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

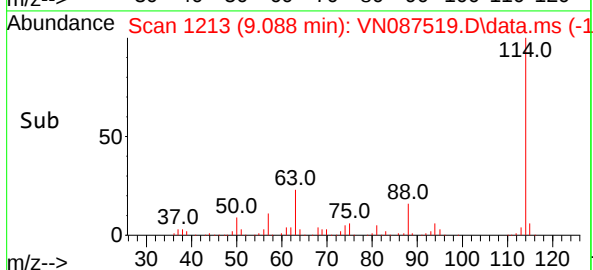
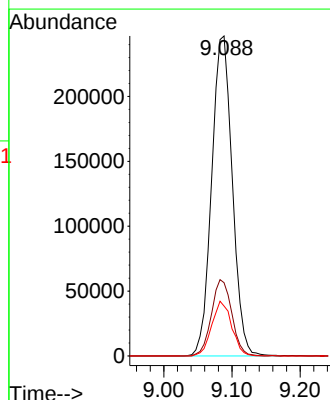
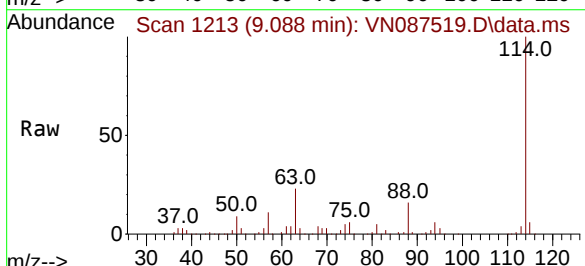
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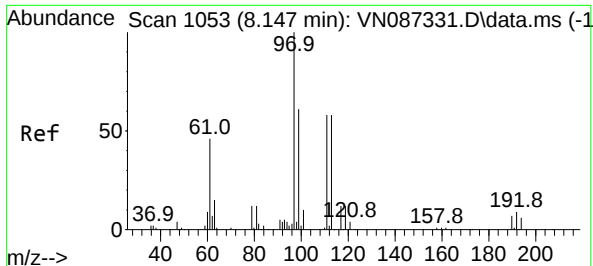
Tgt Ion: 65 Resp: 246969  
Ion Ratio Lower Upper  
65 100  
67 50.3 0.0 104.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.088 min Scan# 1213  
Delta R.T. 0.006 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

Tgt Ion: 114 Resp: 519697  
Ion Ratio Lower Upper  
114 100  
63 22.9 0.0 44.6  
88 15.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.543 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087519.D

Acq: 12 Aug 2025 16:57

Instrument :

MSVOA\_N

ClientSampleId :

FB

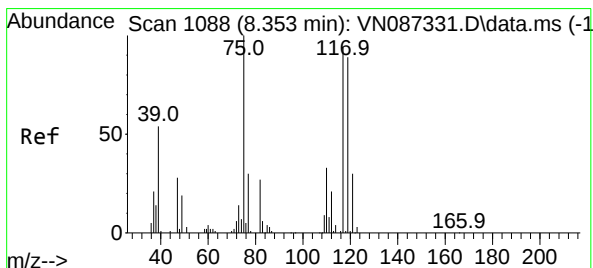
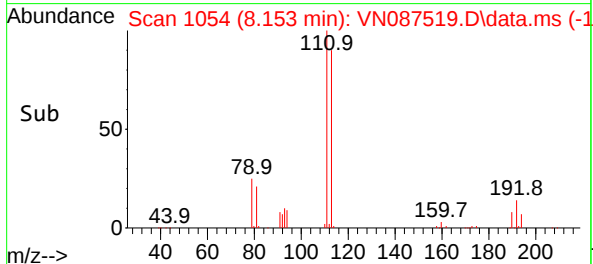
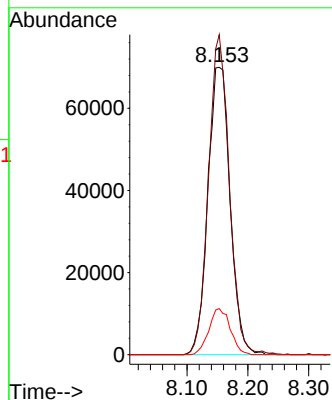
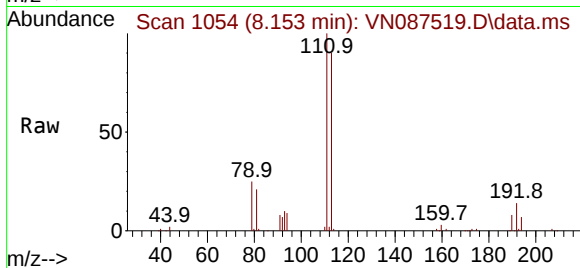
Tgt Ion:113 Resp: 177605

Ion Ratio Lower Upper

113 100

111 104.2 82.5 123.7

192 15.4 13.7 20.5



#36

1,1-Dichloropropene

Concen: 5.148 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087519.D

Acq: 12 Aug 2025 16:57

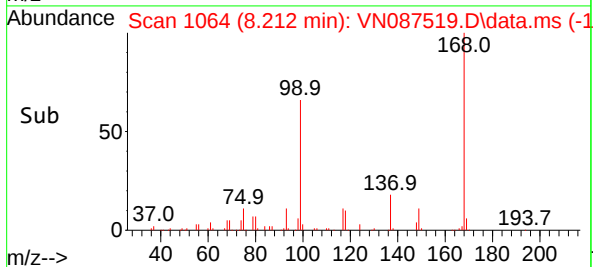
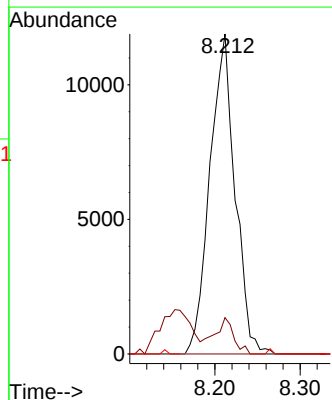
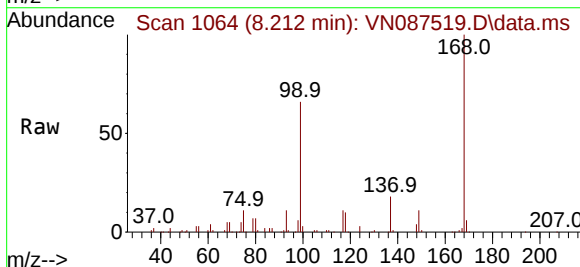
Tgt Ion: 75 Resp: 24382

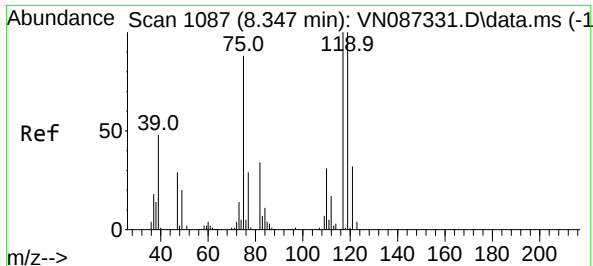
Ion Ratio Lower Upper

75 100

110 8.1 16.7 50.1#

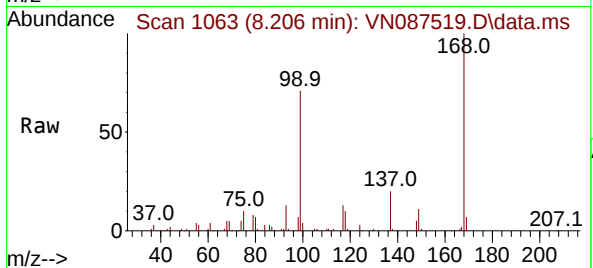
77 0.0 25.2 37.8#



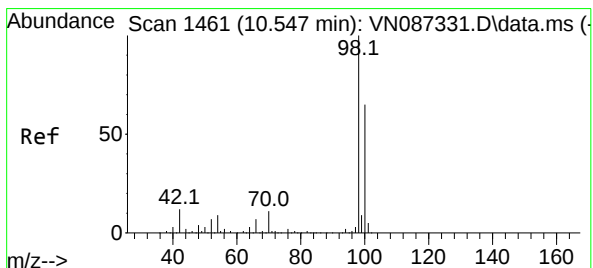
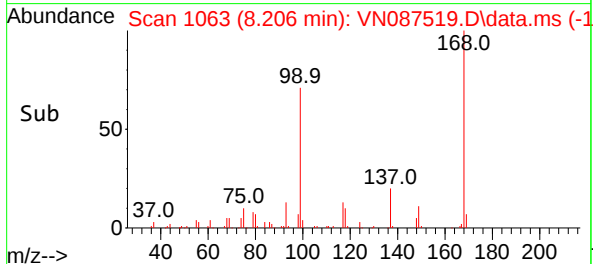
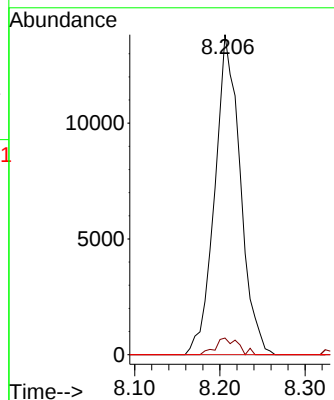


#38  
Carbon Tetrachloride  
Concen: 5.507 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. -0.141 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
FB

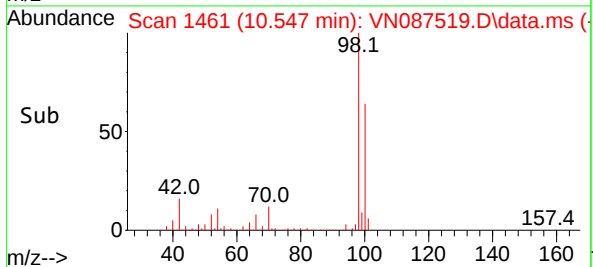
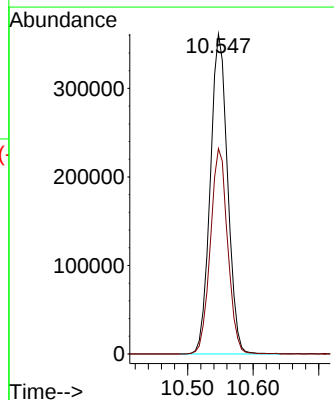
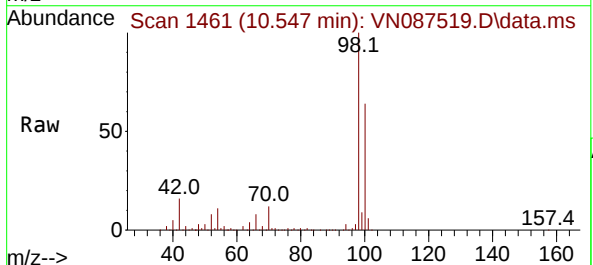


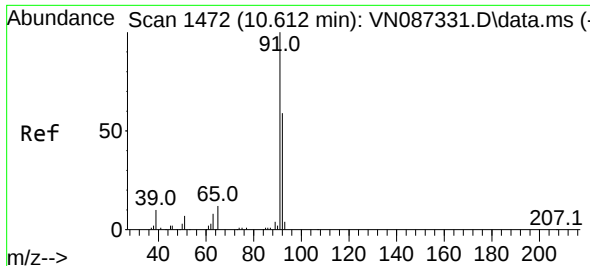
Tgt Ion:117 Resp: 28730  
Ion Ratio Lower Upper  
117 100  
119 5.2 80.2 120.2#  
121 0.0 25.4 38.2#



#50  
Toluene-d8  
Concen: 51.812 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

Tgt Ion: 98 Resp: 662552  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.1 78.1

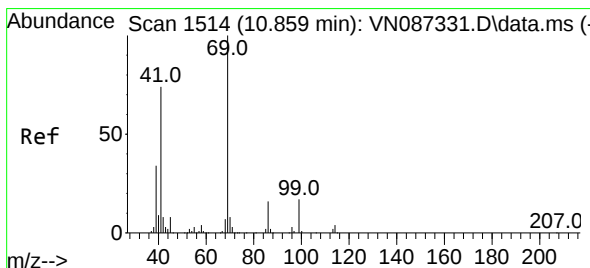
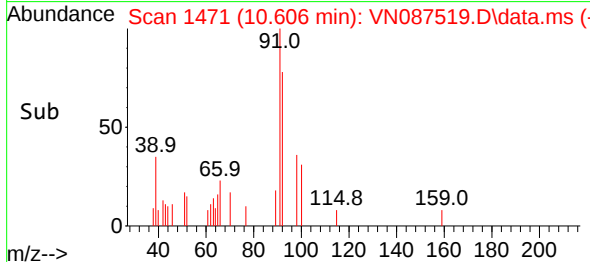
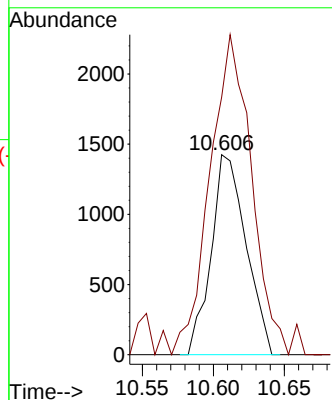
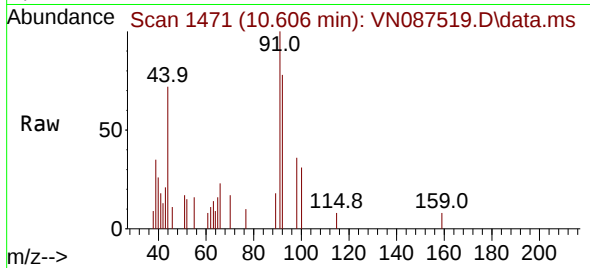




#52  
Toluene  
Concen: 0.261 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

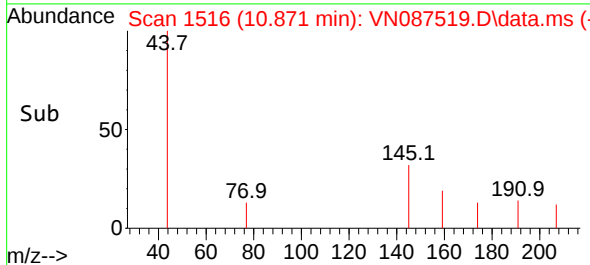
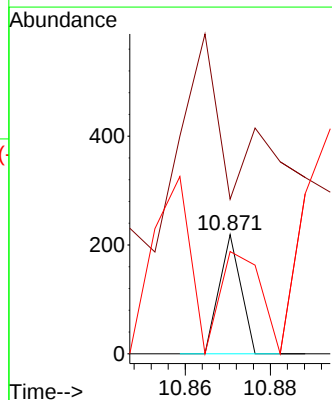
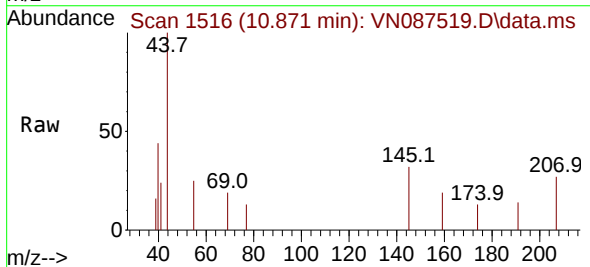
Instrument :  
MSVOA\_N  
ClientSampleId :  
FB

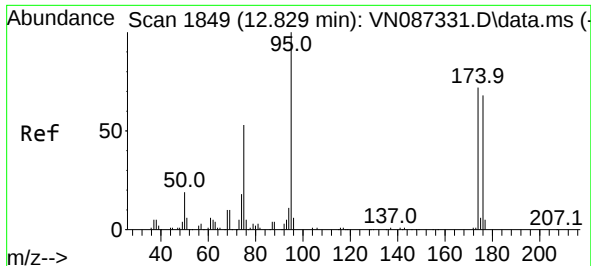
Tgt Ion: 92 Resp: 2432  
Ion Ratio Lower Upper  
92 100  
91 190.4 135.1 202.7



#56  
Ethyl methacrylate  
Concen: 0.647 ug/l  
RT: 10.871 min Scan# 1516  
Delta R.T. 0.012 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

Tgt Ion: 69 Resp: 77  
Ion Ratio Lower Upper  
69 100  
41 1842.9 55.1 82.7#  
39 415.6 27.9 41.9#

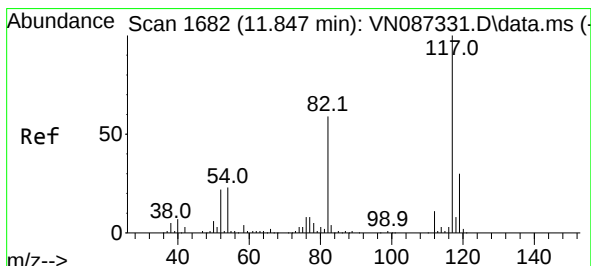
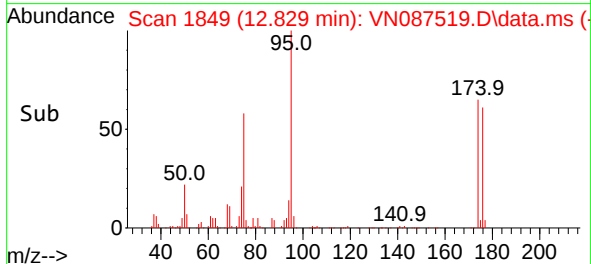
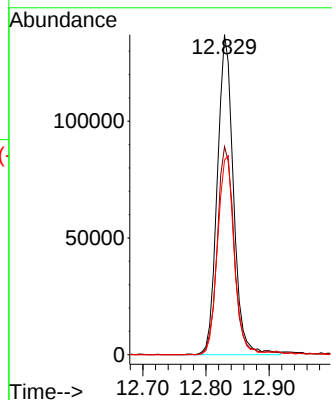
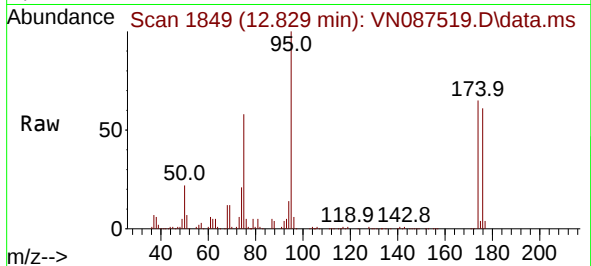




#62  
4-Bromofluorobenzene  
Concen: 51.484 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

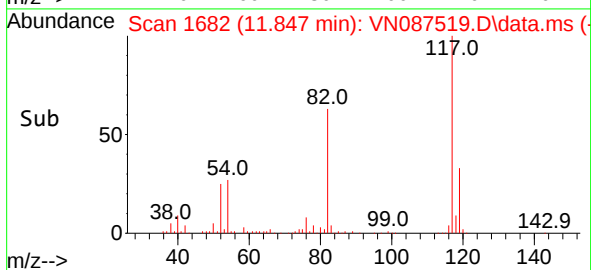
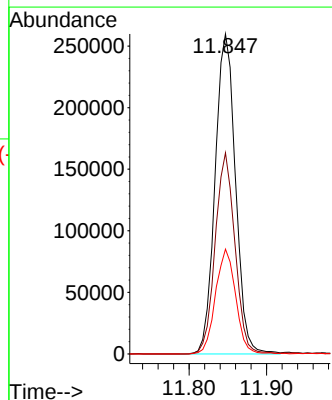
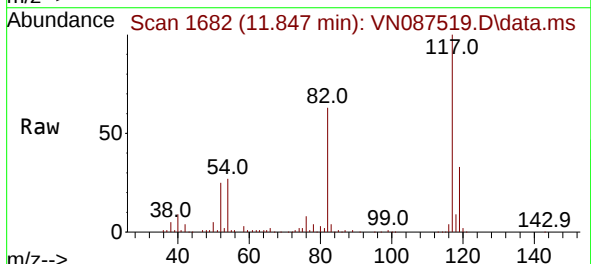
Instrument :  
MSVOA\_N  
ClientSampleId :  
FB

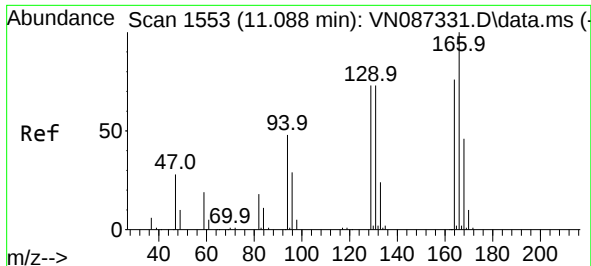
Tgt Ion: 95 Resp: 243231  
Ion Ratio Lower Upper  
95 100  
174 68.1 0.0 149.4  
176 64.3 0.0 141.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. -0.000 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

Tgt Ion: 117 Resp: 475077  
Ion Ratio Lower Upper  
117 100  
82 62.9 47.4 71.2  
119 32.7 23.8 35.8

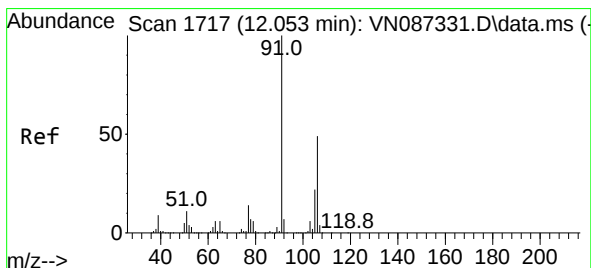
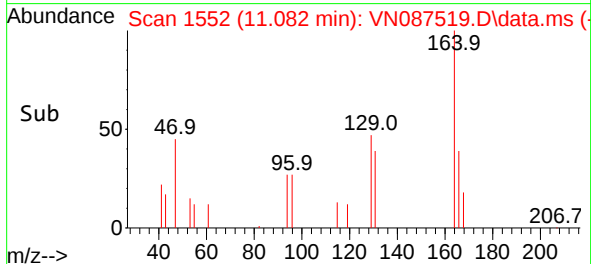
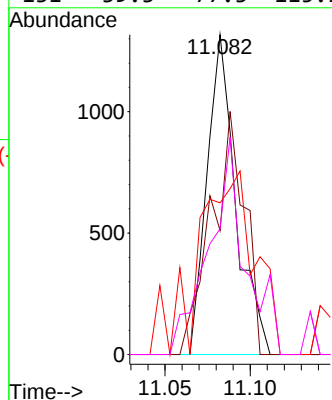
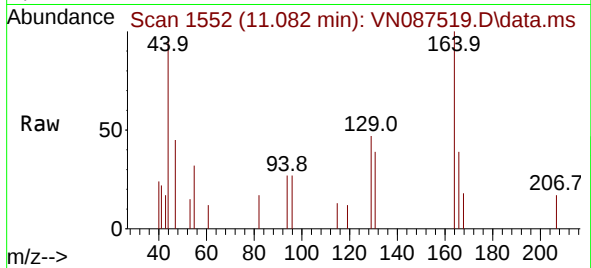




#64  
Tetrachloroethene  
Concen: 0.505 ug/l  
RT: 11.082 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

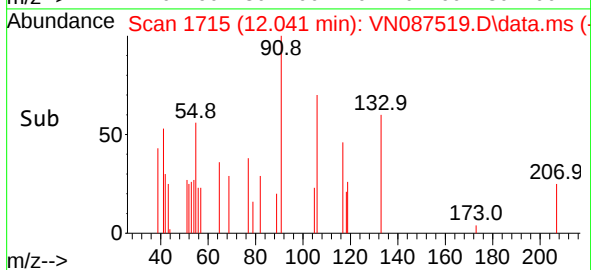
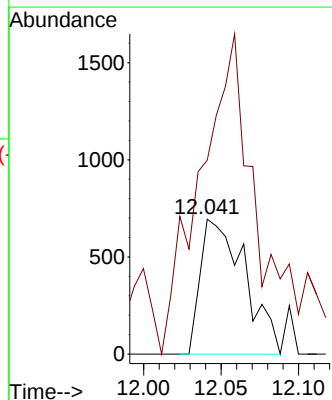
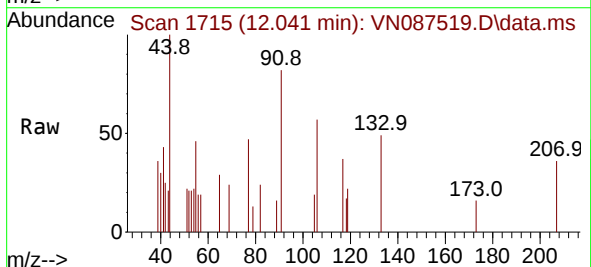
Instrument :  
MSVOA\_N  
ClientSampleId :  
FB

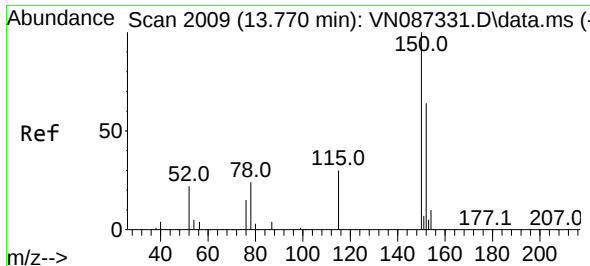
|             |       |              |
|-------------|-------|--------------|
| Tgt Ion:164 | Resp: | 1543         |
| Ion         | Ratio | Lower Upper  |
| 164         | 100   |              |
| 166         | 38.8  | 105.5 158.3# |
| 129         | 47.5  | 77.4 116.2#  |
| 131         | 39.3  | 77.3 115.9#  |



#68  
m/p-Xylenes  
Concen: 0.210 ug/l  
RT: 12.041 min Scan# 1715  
Delta R.T. -0.012 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

|             |       |              |
|-------------|-------|--------------|
| Tgt Ion:106 | Resp: | 1383         |
| Ion         | Ratio | Lower Upper  |
| 106         | 100   |              |
| 91          | 295.9 | 162.0 243.0# |

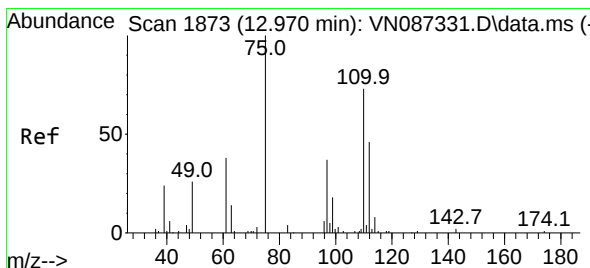
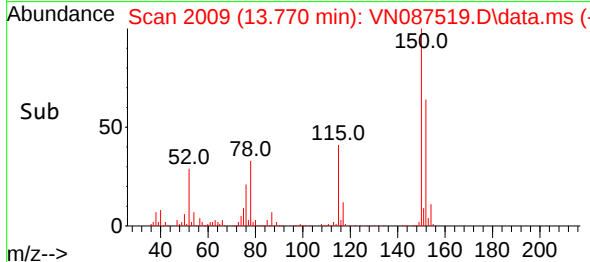
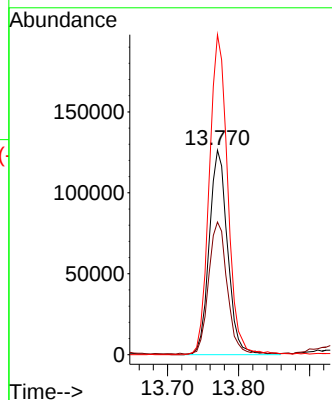
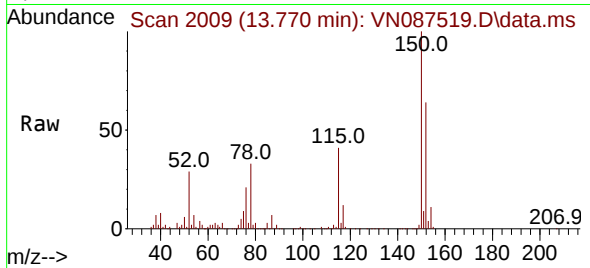




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.770 min Scan# 2009  
 Delta R.T. 0.000 min  
 Lab File: VN087519.D  
 Acq: 12 Aug 2025 16:57

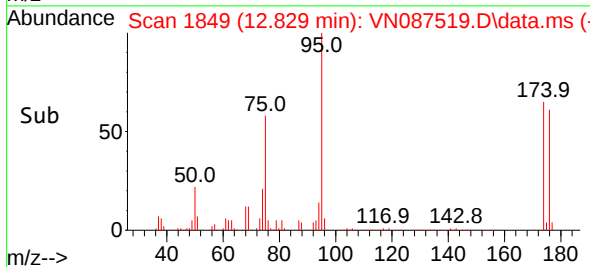
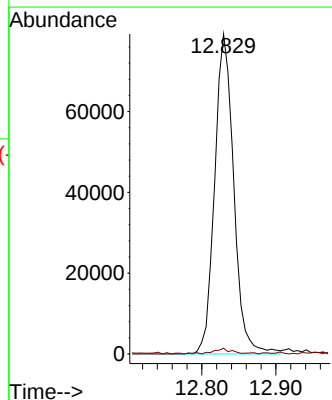
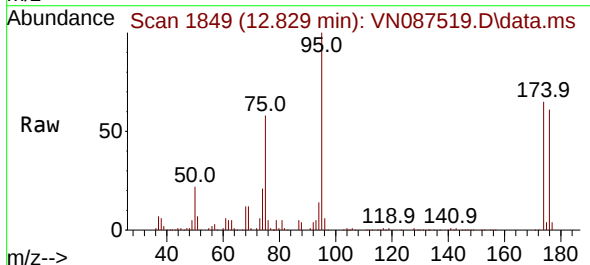
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FB

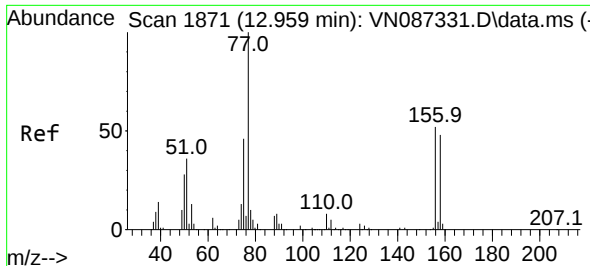
Tgt Ion:152 Resp: 226791  
 Ion Ratio Lower Upper  
 152 100  
 115 65.3 31.1 93.5  
 150 157.1 0.0 349.0



#76  
 1,2,3-Trichloropropane  
 Concen: 27.873 ug/l  
 RT: 12.829 min Scan# 1849  
 Delta R.T. -0.141 min  
 Lab File: VN087519.D  
 Acq: 12 Aug 2025 16:57

Tgt Ion: 75 Resp: 141749  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 94.5 283.6#

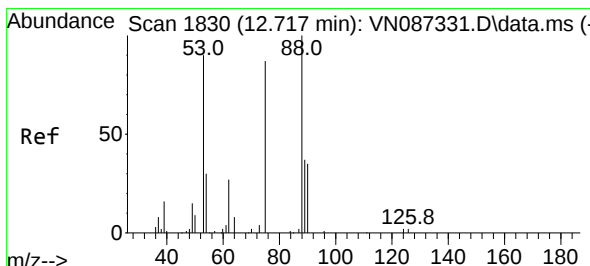
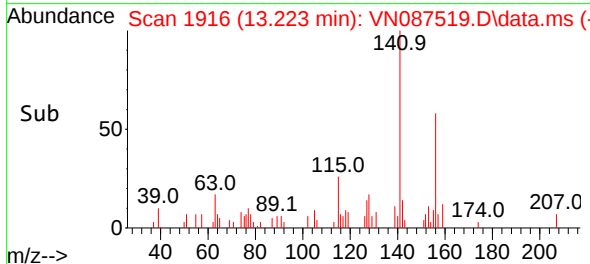
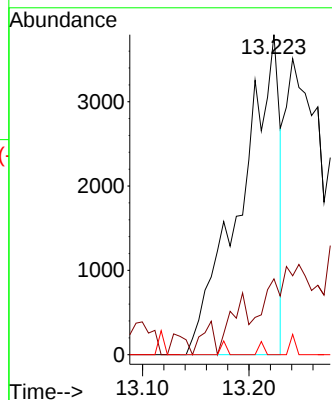
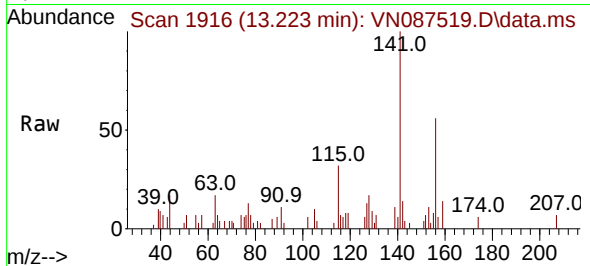




#77  
Bromobenzene  
Concen: 2.614 ug/l  
RT: 13.223 min Scan# 1849  
Delta R.T. 0.265 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

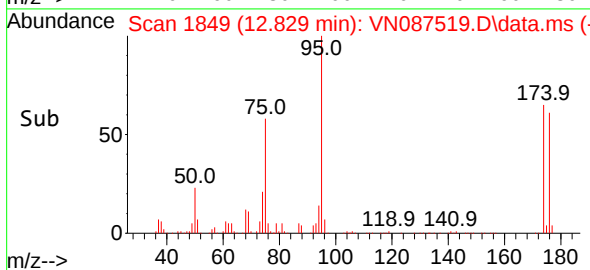
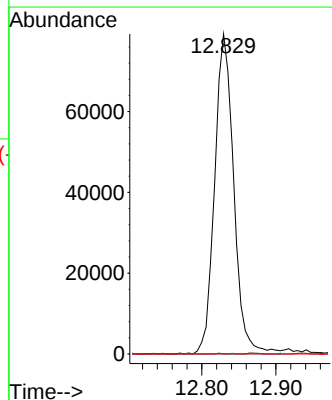
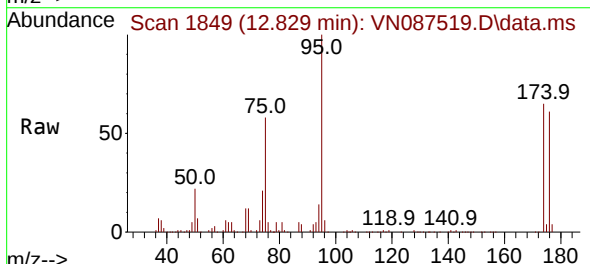
Instrument :  
MSVOA\_N  
ClientSampleId :  
FB

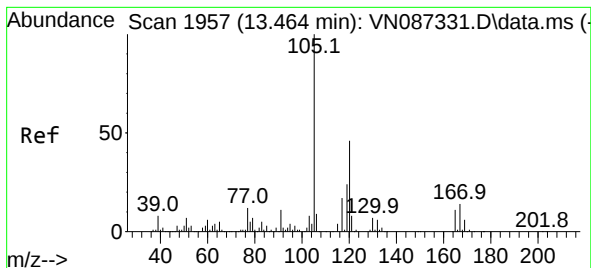
Tgt Ion:156 Resp: 9678  
Ion Ratio Lower Upper  
156 100  
77 0.0 114.9 344.6#  
158 0.6 48.5 145.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.264 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.112 min  
Lab File: VN087519.D  
Acq: 12 Aug 2025 16:57

Tgt Ion: 75 Resp: 141749  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.5 125.3#  
89 0.0 38.4 57.6#





#84

1,2,4-Trimethylbenzene

Concen: 0.217 ug/l

RT: 13.464 min Scan# 1957

Delta R.T. 0.000 min

Lab File: VN087519.D

Acq: 12 Aug 2025 16:57

Instrument :

MSVOA\_N

ClientSampleId :

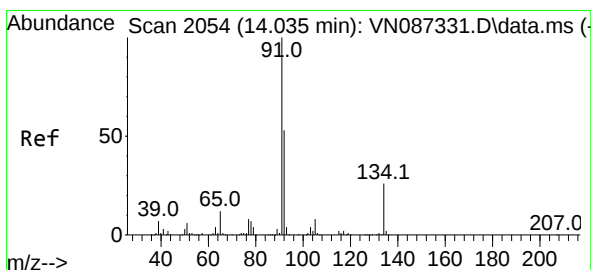
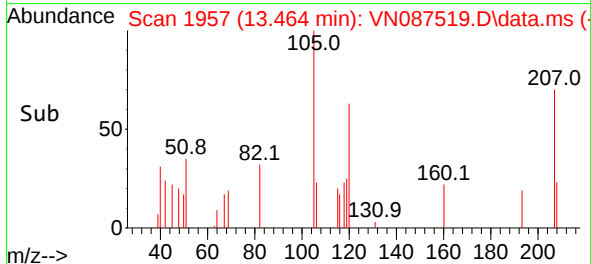
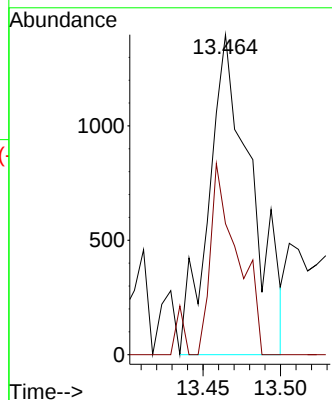
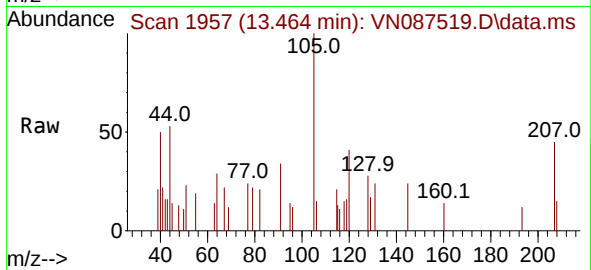
FB

Tgt Ion:105 Resp: 2694

Ion Ratio Lower Upper

105 100

120 37.8 22.8 68.3



#89

n-Butylbenzene

Concen: 0.212 ug/l

RT: 14.029 min Scan# 2053

Delta R.T. -0.006 min

Lab File: VN087519.D

Acq: 12 Aug 2025 16:57

Tgt Ion: 91 Resp: 2481

Ion Ratio Lower Upper

91 100

92 29.9 26.2 78.6

134 12.1 12.4 37.2#

