

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060625\  
 Data File : VN086876.D  
 Acq On : 06 Jun 2025 19:05  
 Operator : JC\MD  
 Sample : Q2216-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 3887

Quant Time: Jun 07 02:28:56 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

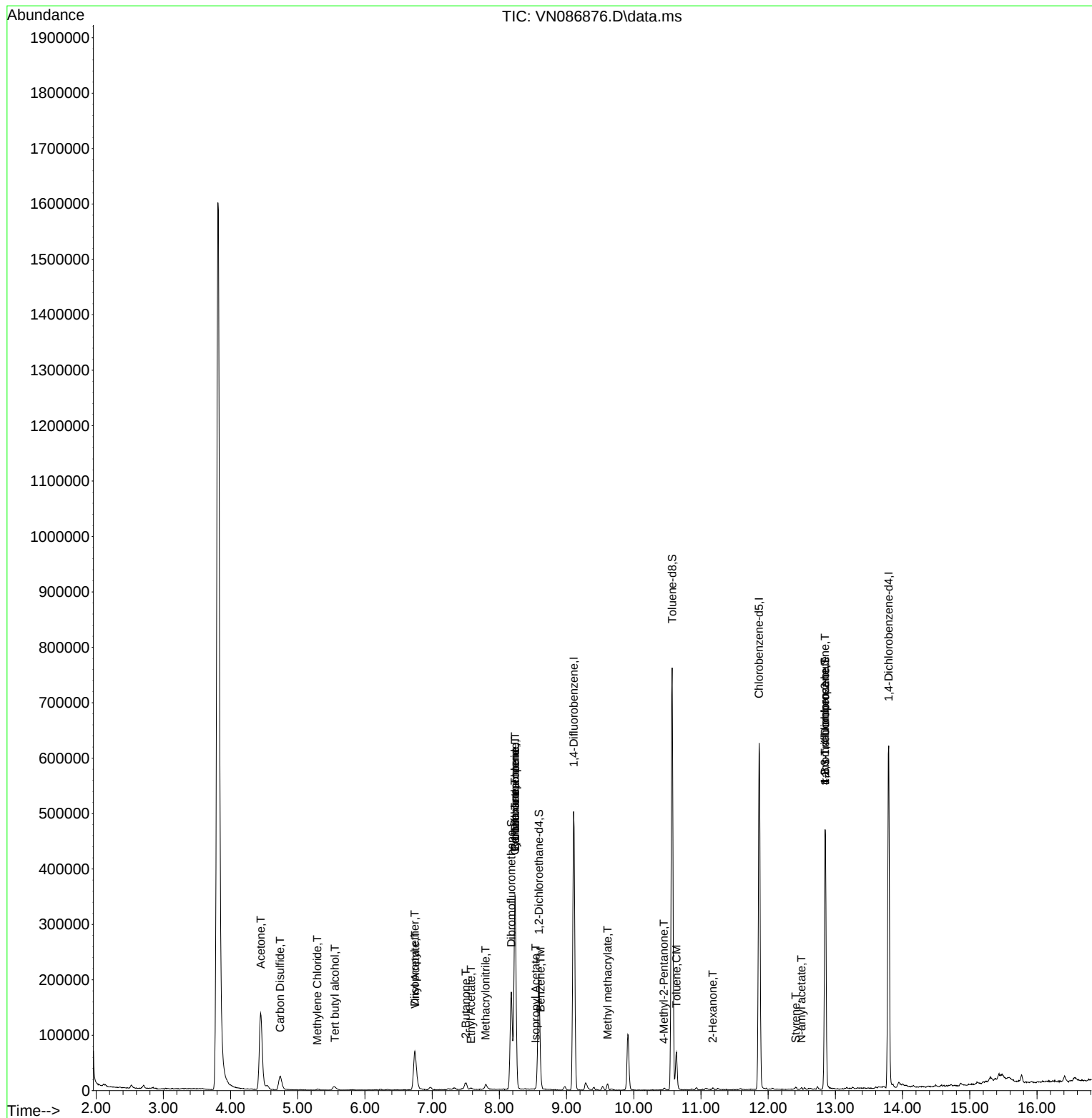
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.235  | 168   | 269110   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 462928   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 388353   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 177699   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65    | 162829   | 45.192   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 90.380%  |
| 35) Dibromofluoromethane      | 8.177  | 113   | 133772   | 48.761   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 97.520%  |
| 50) Toluene-d8                | 10.571 | 98    | 550316   | 50.671   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 101.340% |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 188017   | 46.597   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 93.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 5.553  | 59    | 13628    | 13.939   | ug/l # | 94       |
| 16) Acetone                   | 4.447  | 43    | 276142   | 144.521  | ug/l   | 97       |
| 17) Carbon Disulfide          | 4.736  | 76    | 5656     | 0.683    | ug/l   | 99       |
| 20) Methylene Chloride        | 5.289  | 84    | 1362     | 0.381    | ug/l # | 67       |
| 22) Diisopropyl ether         | 6.741  | 45    | 6077     | 0.580    | ug/l # | 1        |
| 23) Vinyl Acetate             | 6.747  | 43    | 13418    | 1.517    | ug/l # | 69       |
| 25) 2-Butanone                | 7.500  | 43    | 20503    | 6.601    | ug/l   | 96       |
| 31) Cyclohexane               | 8.229  | 56    | 6020     | 1.030    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.235  | 75    | 20893    | 5.111    | ug/l # | 48       |
| 37) Ethyl Acetate             | 7.577  | 43    | 4695     | 0.902    | ug/l # | 87       |
| 38) Carbon Tetrachloride      | 8.235  | 117   | 27288    | 6.799    | ug/l # | 16       |
| 40) Benzene                   | 8.612  | 78    | 4917     | 0.368    | ug/l   | 92       |
| 41) Methacrylonitrile         | 7.794  | 41    | 2248     | 0.769    | ug/l # | 29       |
| 43) Isopropyl Acetate         | 8.541  | 43    | 1804     | 0.216    | ug/l # | 53       |
| 48) Methyl methacrylate       | 9.612  | 41    | 1619     | 0.421    | ug/l # | 20       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43    | 3221     | 0.641    | ug/l   | 96       |
| 52) Toluene                   | 10.635 | 92    | 31202    | 3.819    | ug/l   | 97       |
| 59) 2-Hexanone                | 11.176 | 43    | 1528     | 0.472    | ug/l # | 20       |
| 70) Styrene                   | 12.412 | 104   | 2008     | 0.217    | ug/l # | 78       |
| 74) N-amyl acetate            | 12.494 | 43    | 1288     | 0.285    | ug/l # | 46       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 88807    | 21.025   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 88807    | 48.397   | ug/l # | 16       |

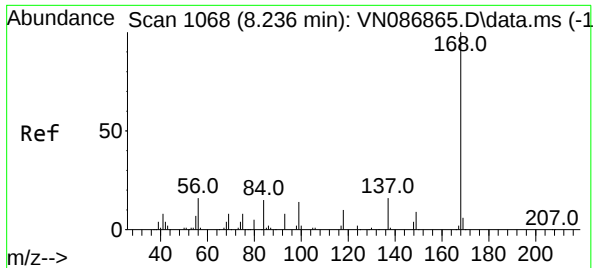
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 07 02:12:50 2025  
Response via : Initial Calibration

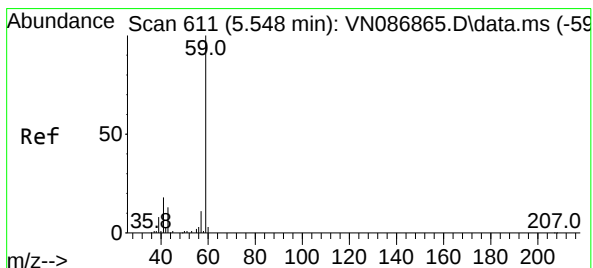
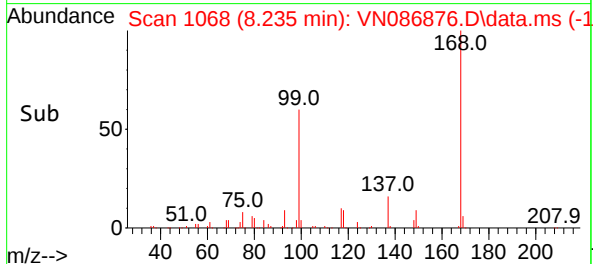
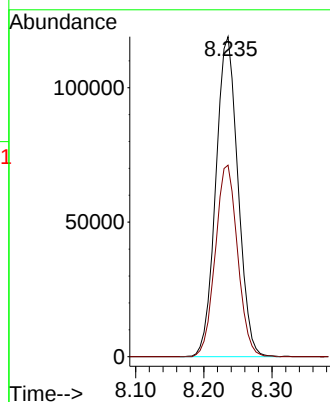
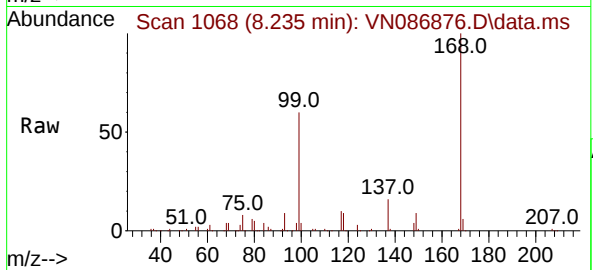




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.001 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

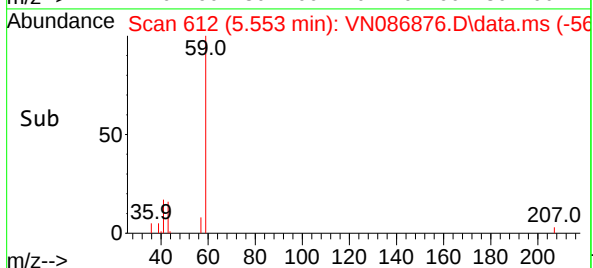
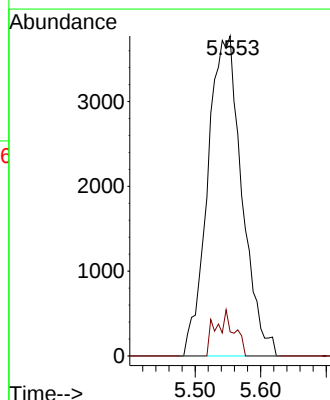
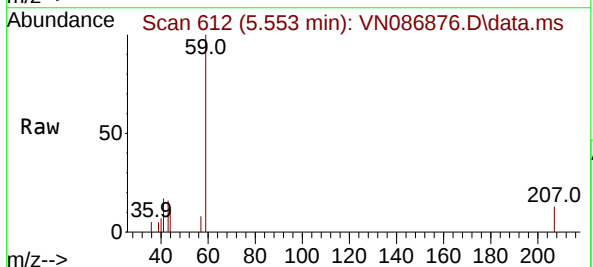
Instrument :  
MSVOA\_N  
ClientSampleId :  
3887

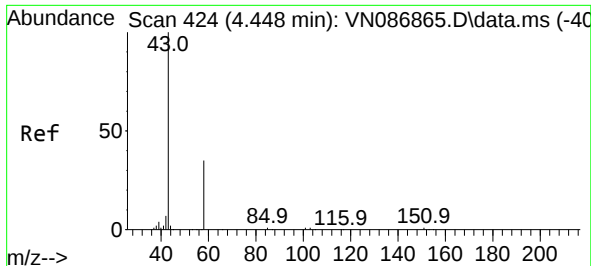
Tgt Ion:168 Resp: 269110  
Ion Ratio Lower Upper  
168 100  
99 59.9 49.1 73.7



#11  
Tert butyl alcohol  
Concen: 13.939 ug/l  
RT: 5.553 min Scan# 612  
Delta R.T. 0.006 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

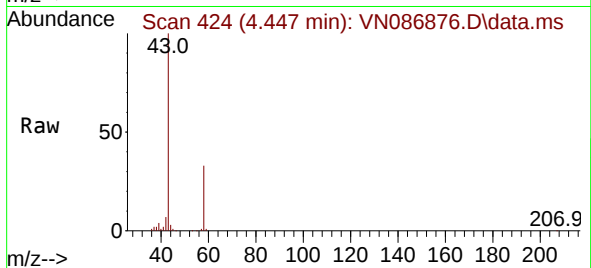
Tgt Ion: 59 Resp: 13628  
Ion Ratio Lower Upper  
59 100  
57 7.8 8.1 12.1#



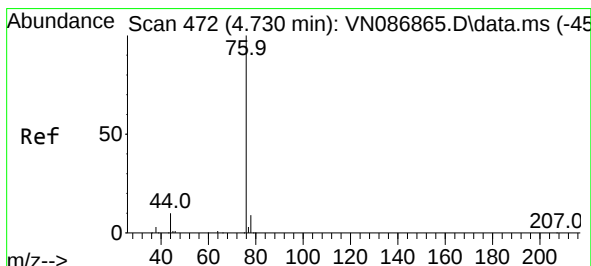
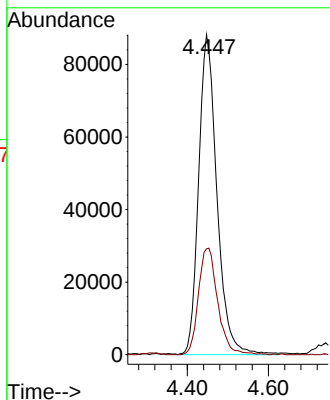
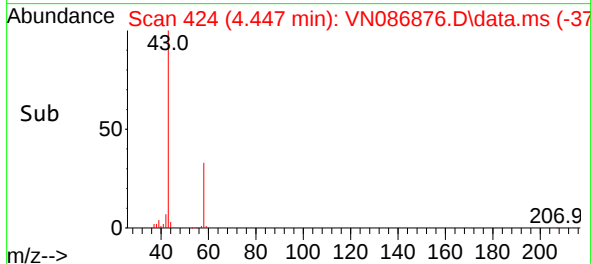


#16  
Acetone  
Concen: 144.521 ug/l  
RT: 4.447 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
3887

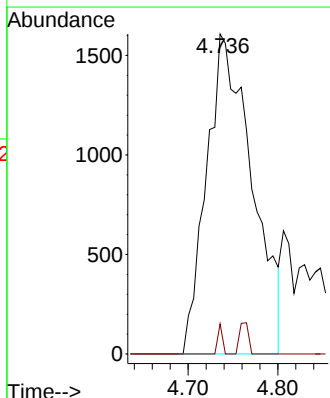
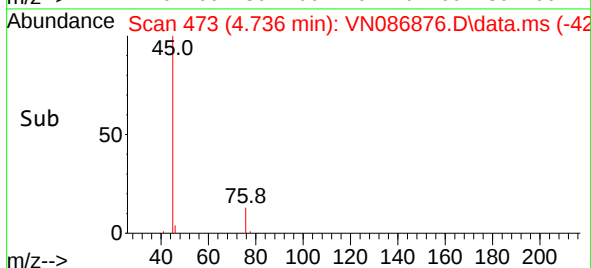
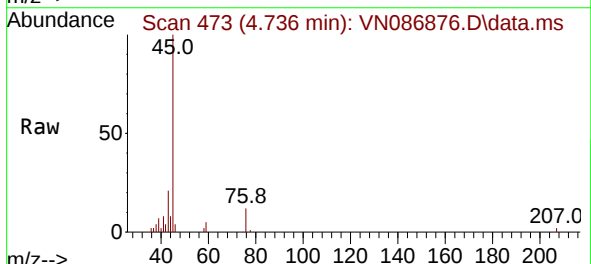


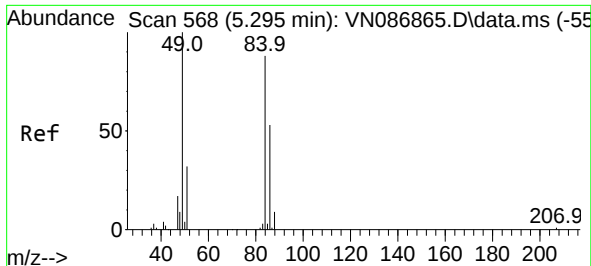
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Ion Ratio Lower Upper  
43 100  
58 33.1 28.0 42.0



#17  
Carbon Disulfide  
Concen: 0.683 ug/l  
RT: 4.736 min Scan# 473  
Delta R.T. 0.006 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Tgt Ion: 76 Resp: 5656  
Ion Ratio Lower Upper  
76 100  
78 9.4 7.3 10.9

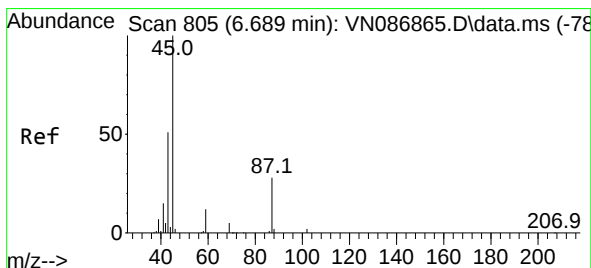
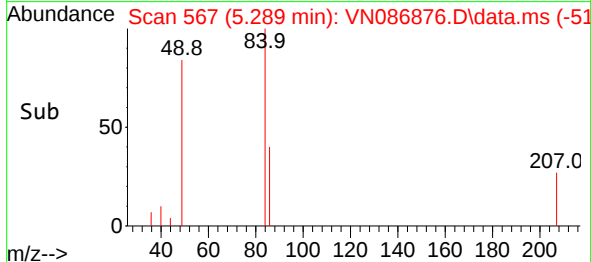
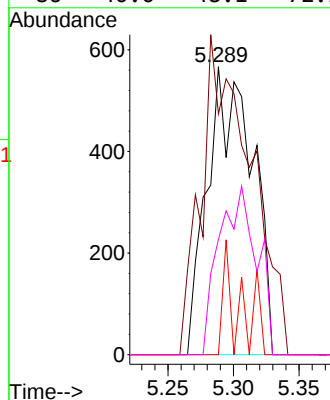
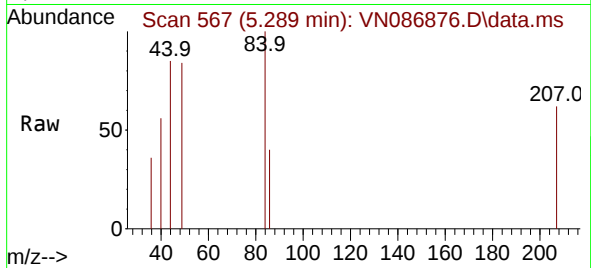




#20  
Methylene Chloride  
Concen: 0.381 ug/l  
RT: 5.289 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

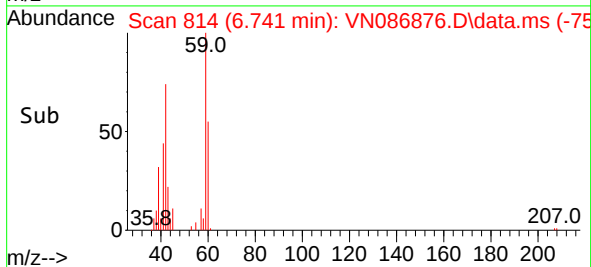
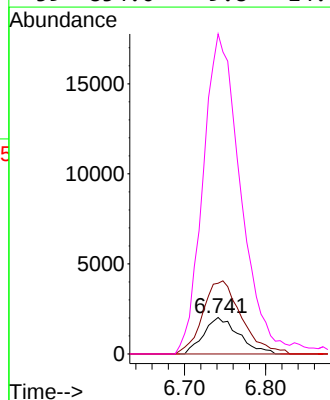
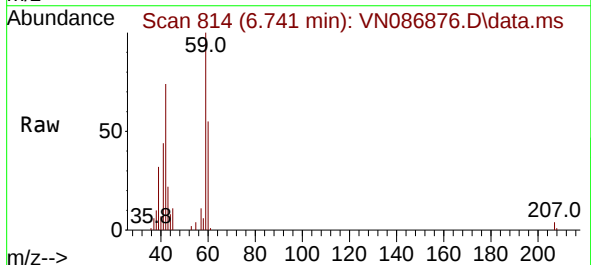
Instrument :  
MSVOA\_N  
ClientSampleId :  
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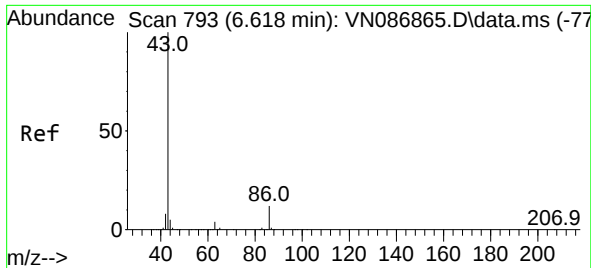
Tgt Ion: 84 Resp: 1362  
Ion Ratio Lower Upper  
84 100  
49 83.6 90.5 135.7#  
51 0.0 28.5 42.7#  
86 40.0 48.1 72.1#



#22  
Diisopropyl ether  
Concen: 0.580 ug/l  
RT: 6.741 min Scan# 814  
Delta R.T. 0.053 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Tgt Ion: 45 Resp: 6077  
Ion Ratio Lower Upper  
45 100  
43 185.0 41.9 62.9#  
87 0.0 22.4 33.6#  
59 854.0 9.8 14.6#

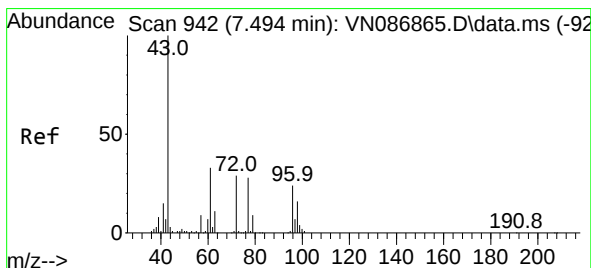
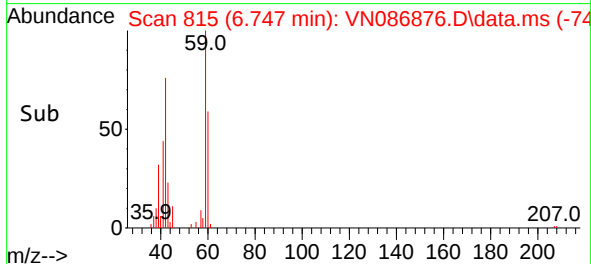
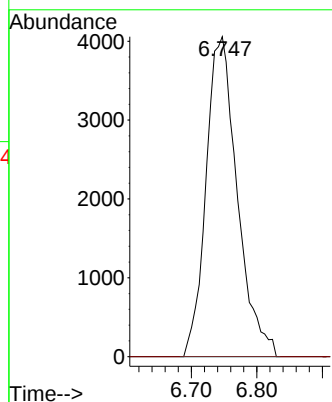
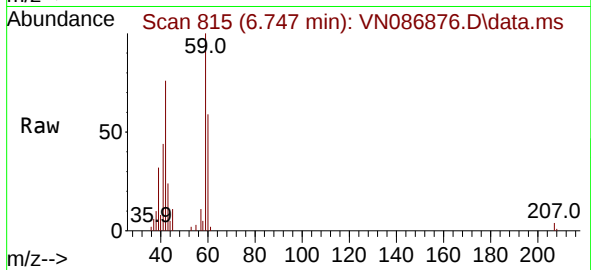




#23  
 Vinyl Acetate  
 Concen: 1.517 ug/l  
 RT: 6.747 min Scan# 815  
 Delta R.T. 0.129 min  
 Lab File: VN086876.D  
 Acq: 06 Jun 2025 19:05

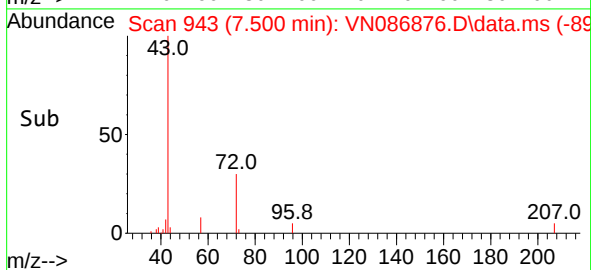
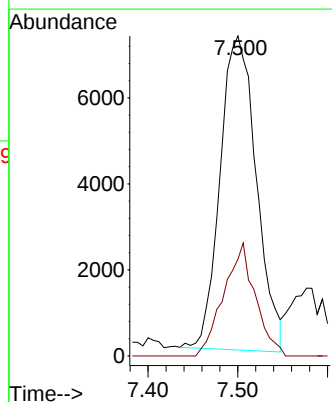
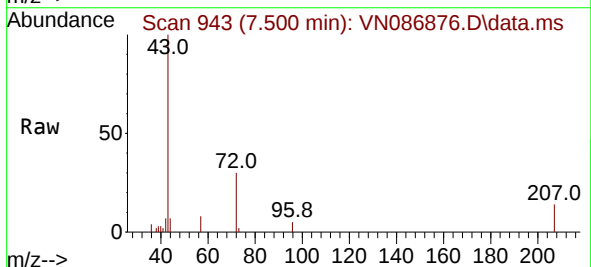
Instrument :  
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 ClientSampleId :  
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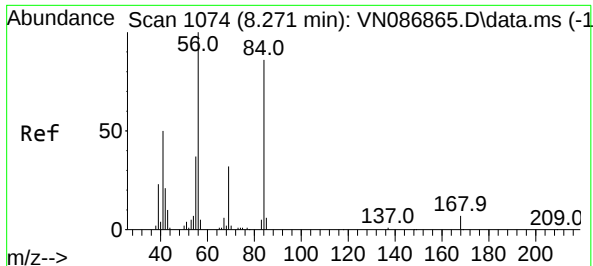
Tgt Ion: 43 Resp: 13418  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 9.5 14.3#



#25  
 2-Butanone  
 Concen: 6.601 ug/l  
 RT: 7.500 min Scan# 943  
 Delta R.T. 0.006 min  
 Lab File: VN086876.D  
 Acq: 06 Jun 2025 19:05

Tgt Ion: 43 Resp: 20503  
 Ion Ratio Lower Upper  
 43 100  
 72 31.1 23.0 34.6

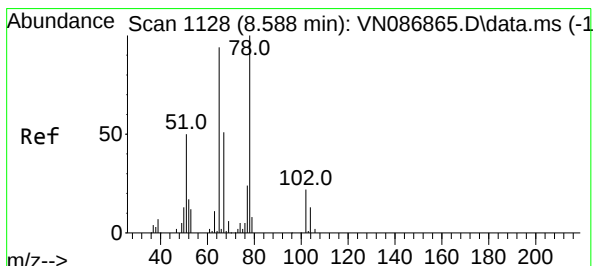
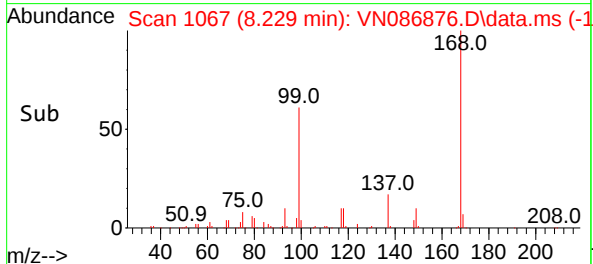
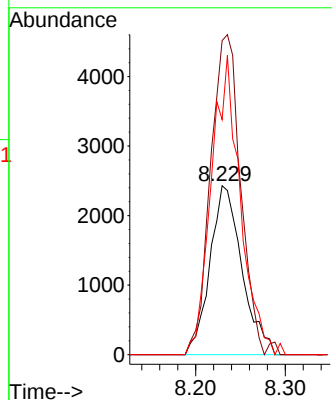
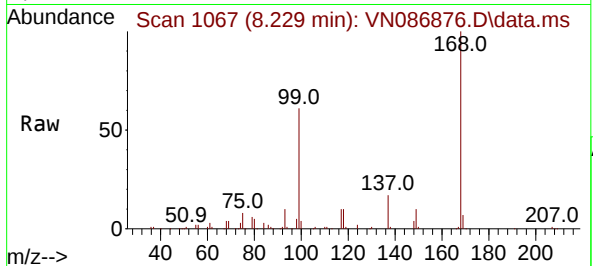




#31  
Cyclohexane  
Concen: 1.030 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.041 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

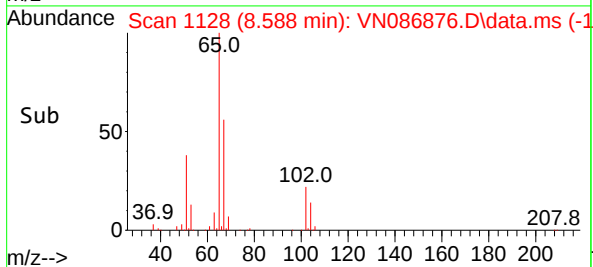
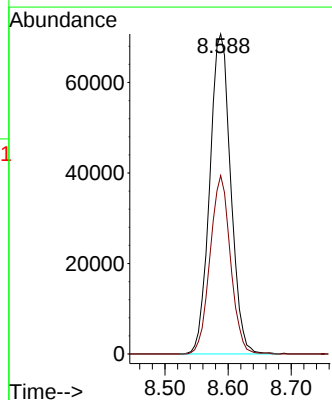
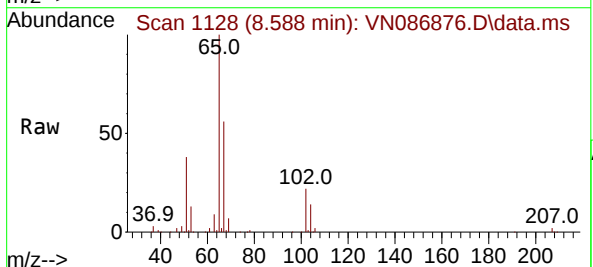
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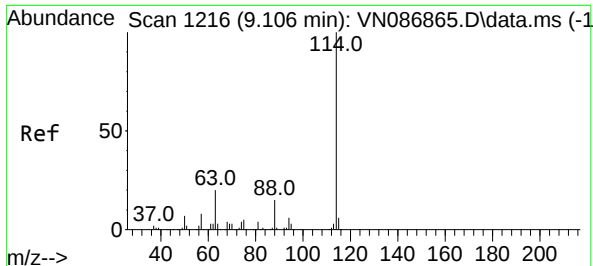
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Ion Ratio Lower Upper  
56 100  
69 185.8 25.4 38.0#  
84 139.1 68.8 103.2#



#33  
1,2-Dichloroethane-d4  
Concen: 45.192 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Tgt Ion: 65 Resp: 162829  
Ion Ratio Lower Upper  
65 100  
67 54.2 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086876.D

Acq: 06 Jun 2025 19:05

Instrument :

MSVOA\_N

ClientSampleId :

3887

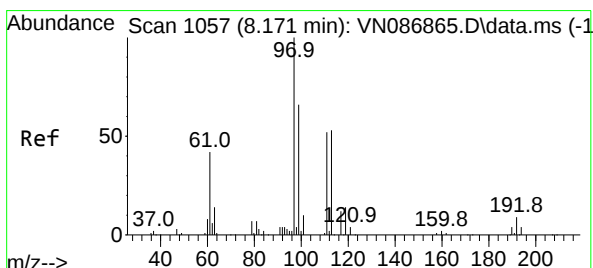
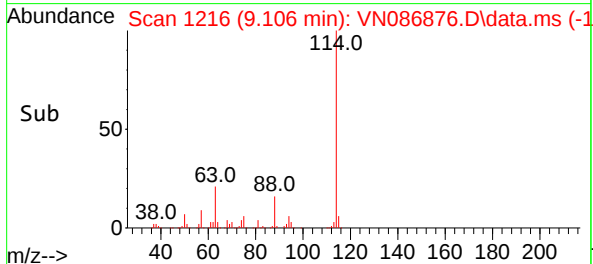
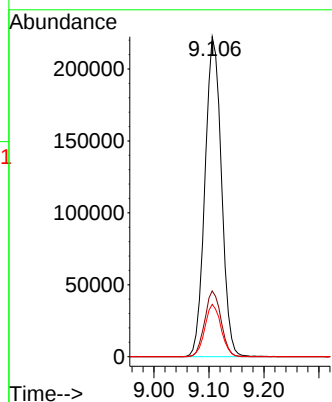
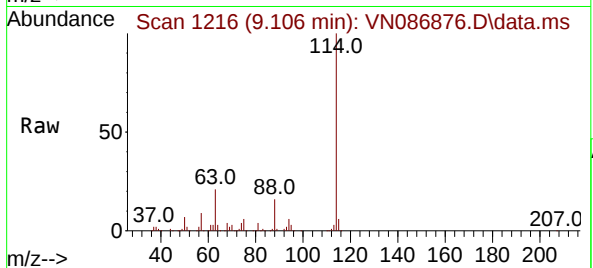
Tgt Ion:114 Resp: 462928

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.6

88 16.3 0.0 30.2



#35

Dibromofluoromethane

Concen: 48.761 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086876.D

Acq: 06 Jun 2025 19:05

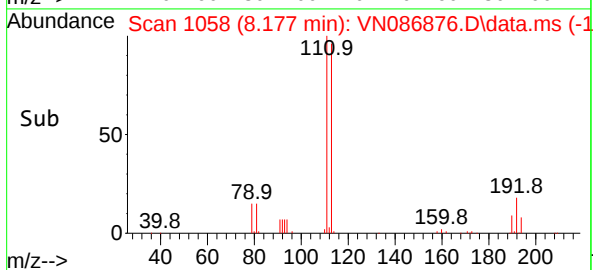
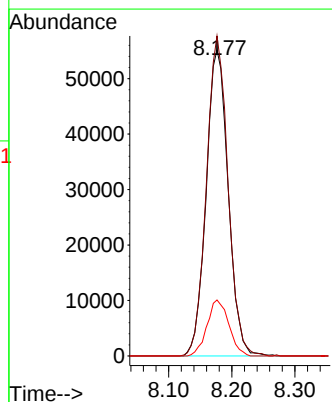
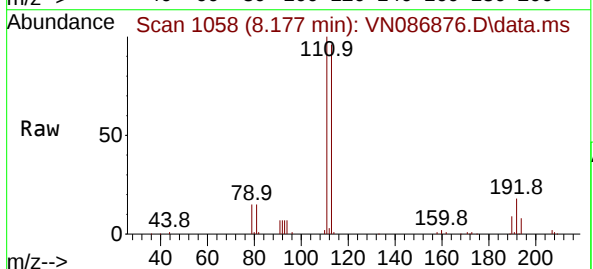
Tgt Ion:113 Resp: 133772

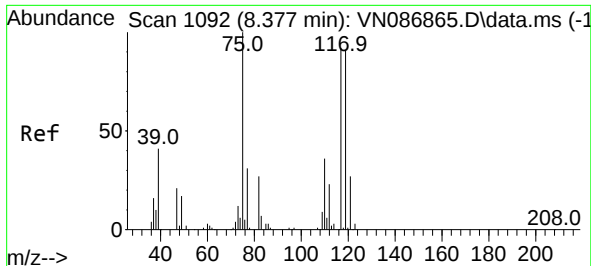
Ion Ratio Lower Upper

113 100

111 102.5 84.2 126.2

192 18.1 14.2 21.4

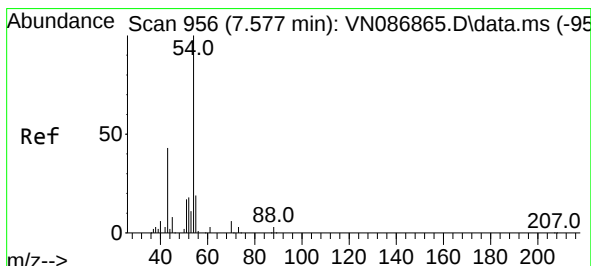
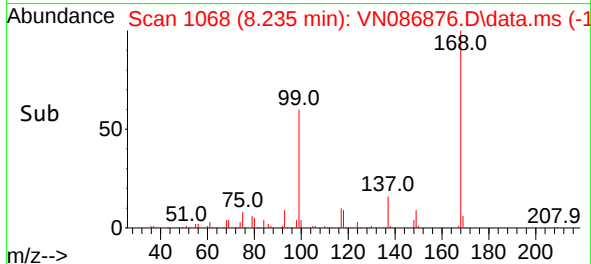
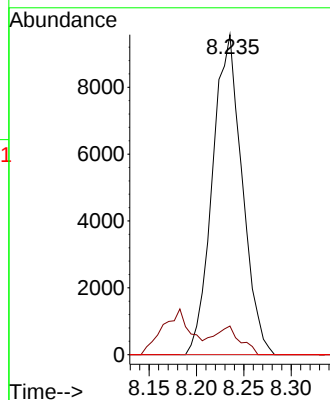
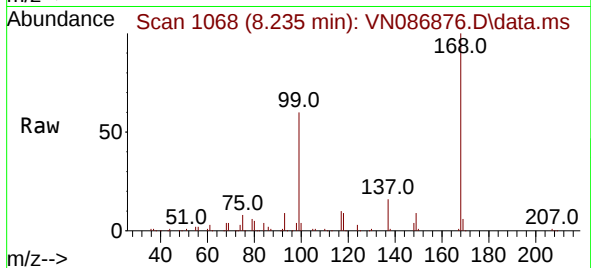




#36  
1,1-Dichloropropene  
Concen: 5.111 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.141 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

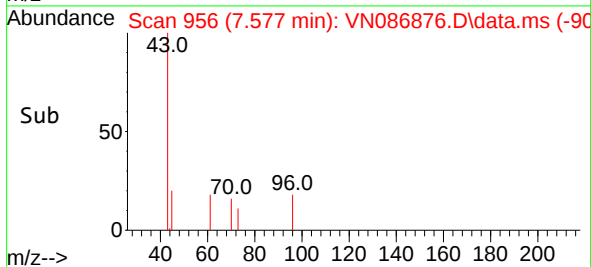
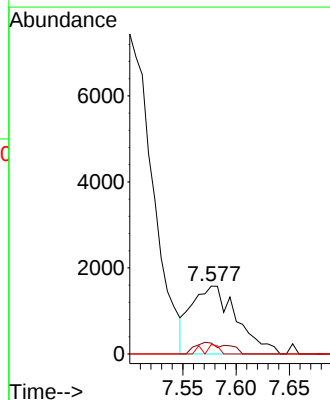
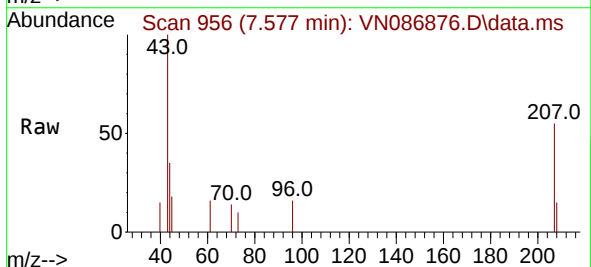
Instrument :  
MSVOA\_N  
ClientSampleId :  
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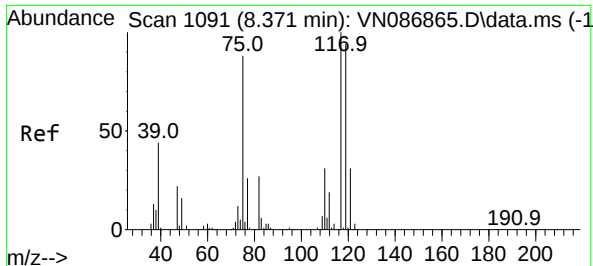
Tgt Ion: 75 Resp: 20893  
Ion Ratio Lower Upper  
75 100  
110 7.3 17.6 52.9#  
77 0.0 25.3 37.9#



#37  
Ethyl Acetate  
Concen: 0.902 ug/l  
RT: 7.577 min Scan# 956  
Delta R.T. -0.000 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Tgt Ion: 43 Resp: 4695  
Ion Ratio Lower Upper  
43 100  
61 12.0 12.1 18.1#  
70 4.5 9.8 14.6#

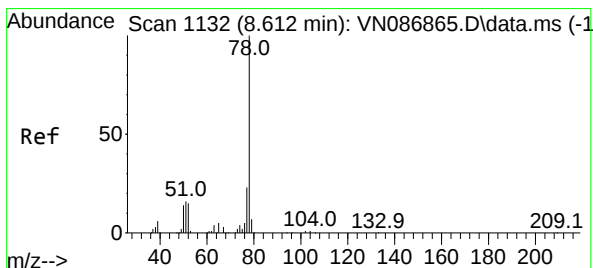
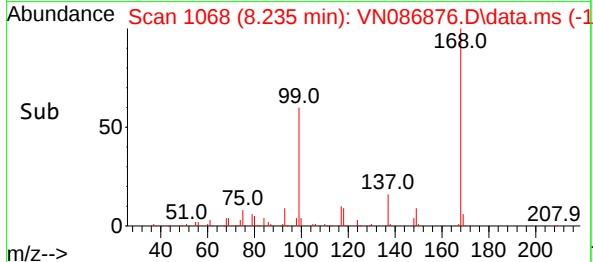
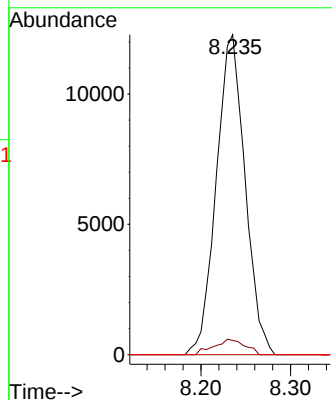
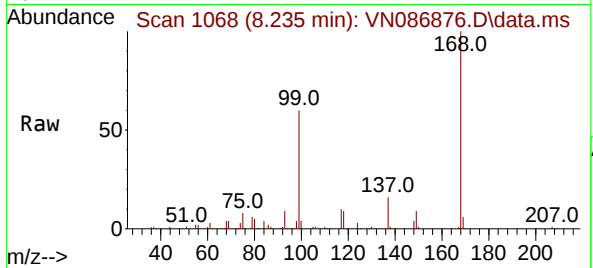




#38  
Carbon Tetrachloride  
Concen: 6.799 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.135 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

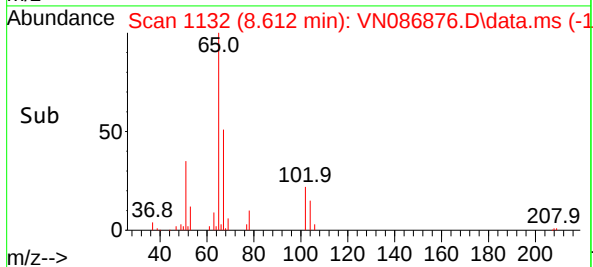
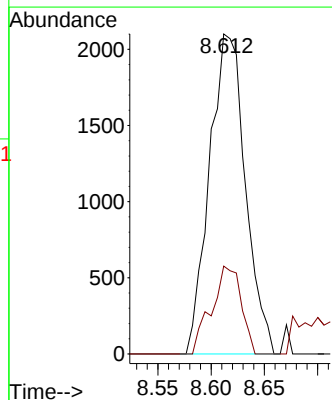
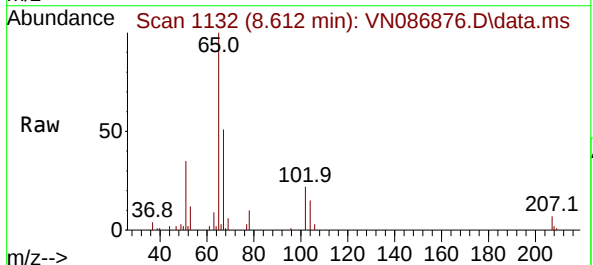
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MSVOA\_N  
ClientSampleId :  
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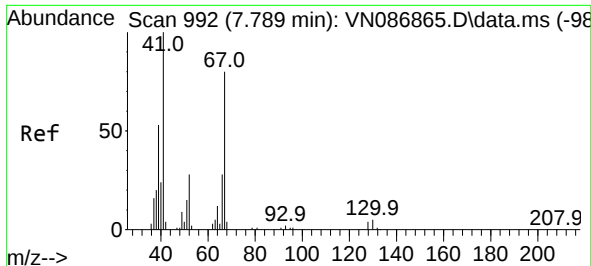
Tgt Ion:117 Resp: 27288  
Ion Ratio Lower Upper  
117 100  
119 4.4 75.0 112.6#  
121 0.0 24.9 37.3#



#40  
Benzene  
Concen: 0.368 ug/l  
RT: 8.612 min Scan# 1132  
Delta R.T. -0.000 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Tgt Ion: 78 Resp: 4917  
Ion Ratio Lower Upper  
78 100  
77 27.5 18.7 28.1

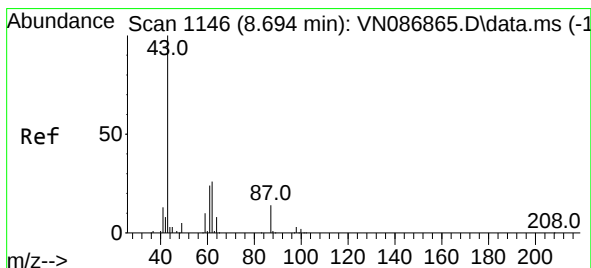
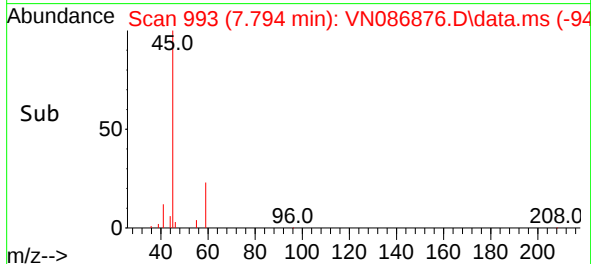
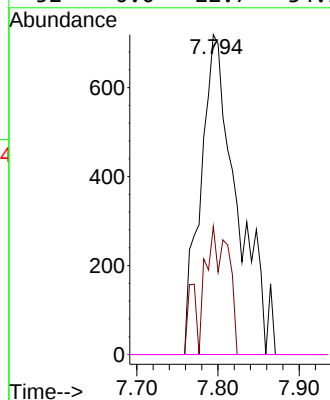
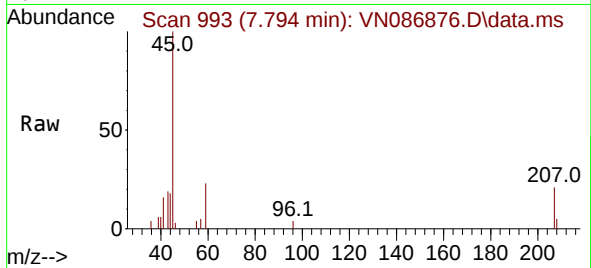




#41  
Methacrylonitrile  
Concen: 0.769 ug/l  
RT: 7.794 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

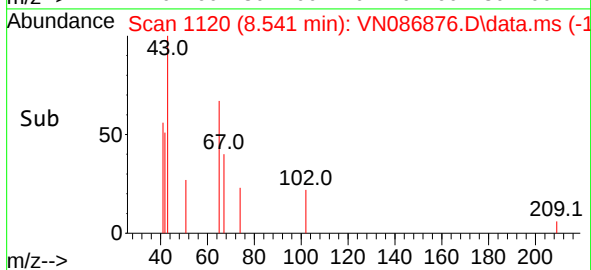
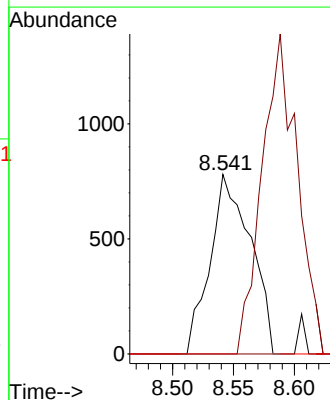
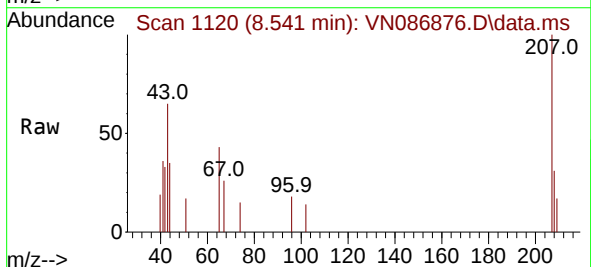
Instrument :  
MSVOA\_N  
ClientSampleId :  
3887

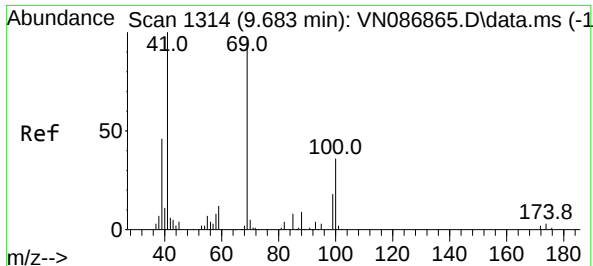
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 2248  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 13.8  | 41.2  | 61.8# |
| 67       | 0.0   | 61.4  | 92.2# |
| 52       | 0.0   | 22.7  | 34.1# |



#43  
Isopropyl Acetate  
Concen: 0.216 ug/l  
RT: 8.541 min Scan# 1120  
Delta R.T. -0.153 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1804  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 22.1  | 33.1# |
| 87       | 0.0   | 11.8  | 17.6# |

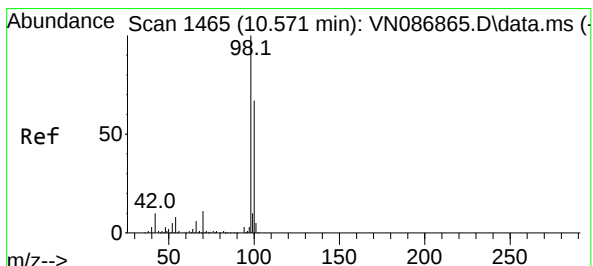
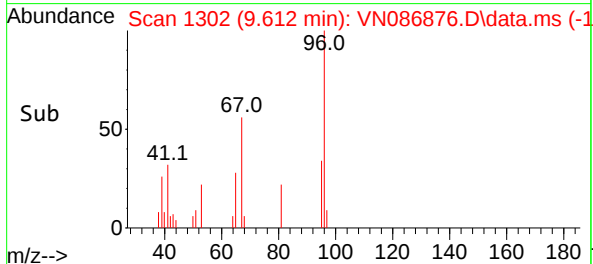
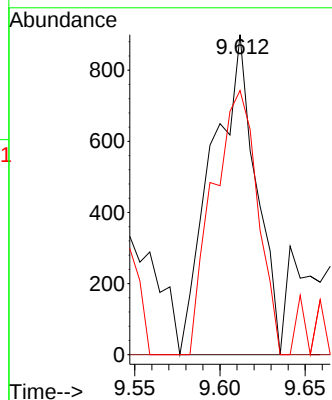
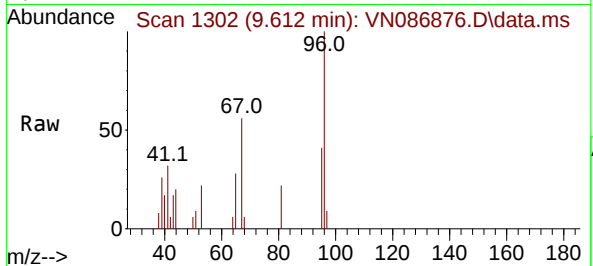




#48  
Methyl methacrylate  
Concen: 0.421 ug/l  
RT: 9.612 min Scan# 11  
Delta R.T. -0.071 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

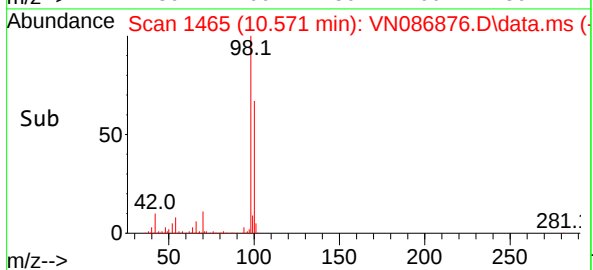
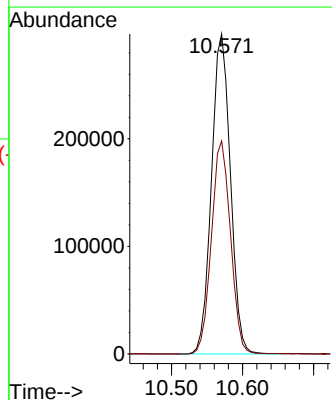
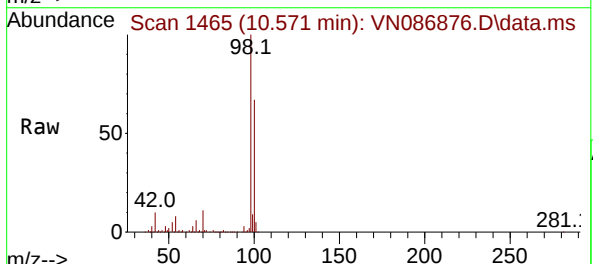
Instrument :  
MSVOA\_N  
ClientSampleId :  
3887

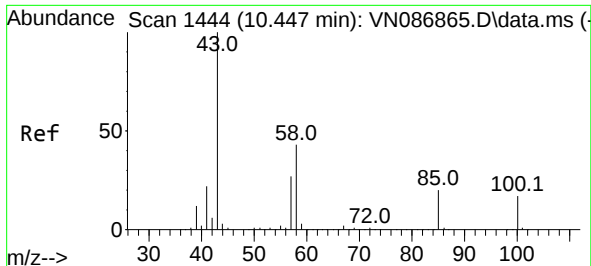
Tgt Ion: 41 Resp: 1619  
Ion Ratio Lower Upper  
41 100  
69 0.0 74.6 112.0#  
39 83.8 40.2 60.4#



#50  
Toluene-d8  
Concen: 50.671 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Tgt Ion: 98 Resp: 550316  
Ion Ratio Lower Upper  
98 100  
100 67.0 53.4 80.0

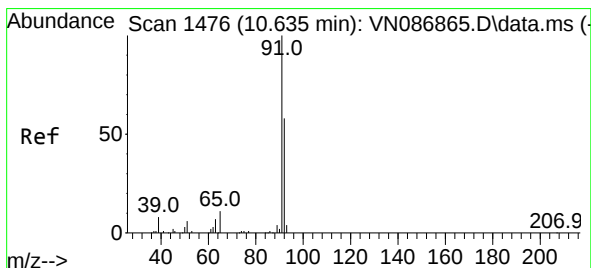
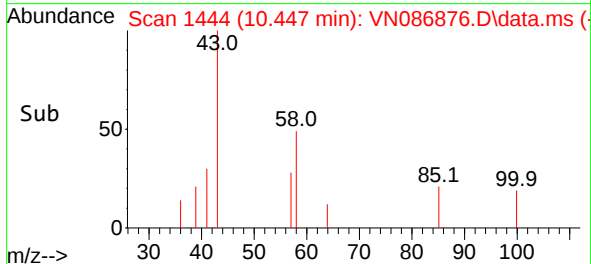
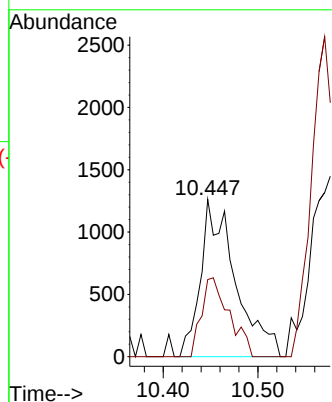
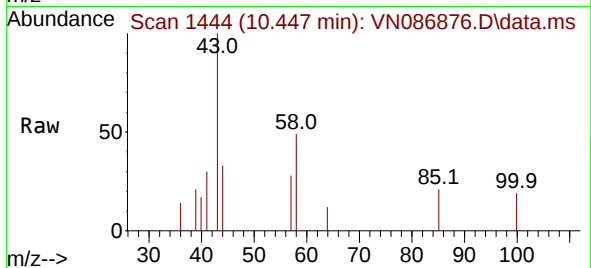




#51  
4-Methyl-2-Pentanone  
Concen: 0.641 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

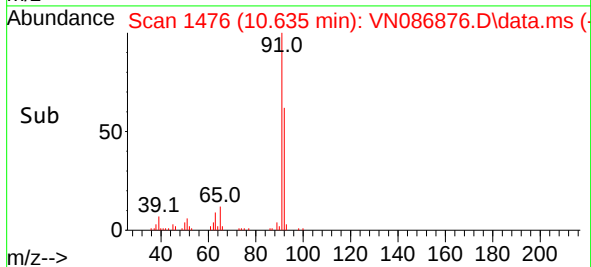
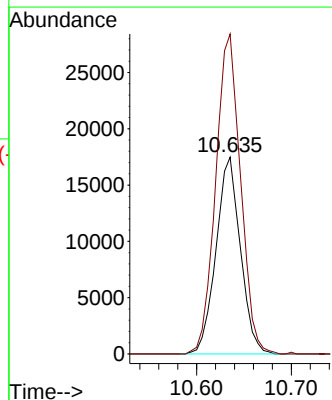
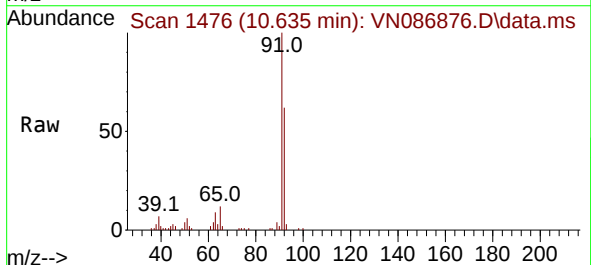
Instrument :  
MSVOA\_N  
ClientSampleId :  
3887

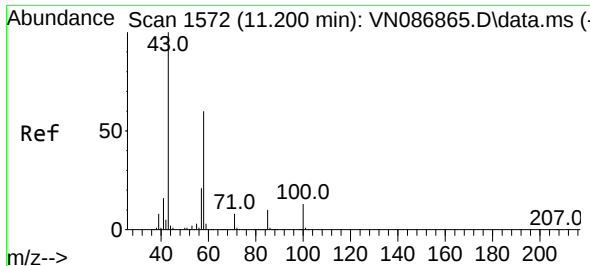
Tgt Ion: 43 Resp: 3221  
Ion Ratio Lower Upper  
43 100  
58 40.0 34.2 51.4



#52  
Toluene  
Concen: 3.819 ug/l  
RT: 10.635 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Tgt Ion: 92 Resp: 31202  
Ion Ratio Lower Upper  
92 100  
91 166.2 136.5 204.7

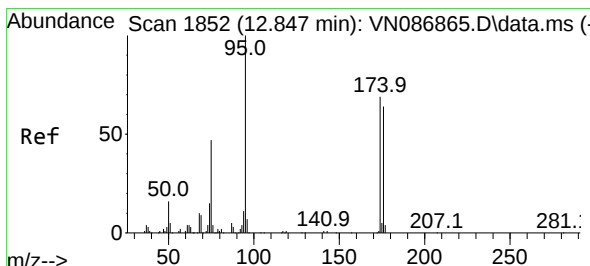
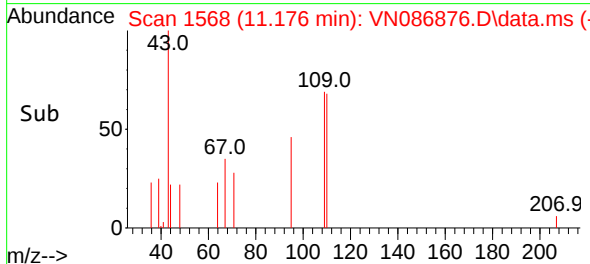
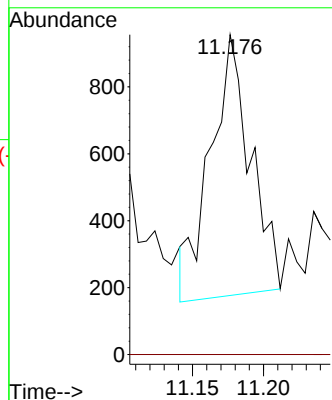
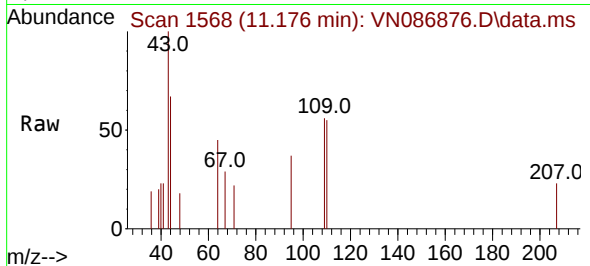




#59  
2-Hexanone  
Concen: 0.472 ug/l  
RT: 11.176 min Scan# 1568  
Delta R.T. -0.024 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

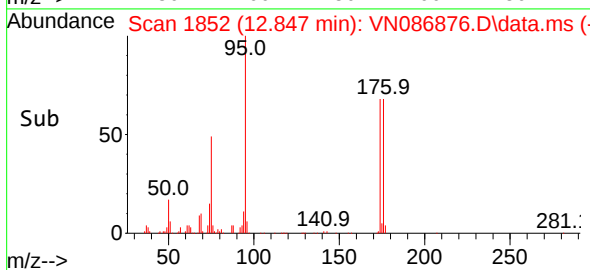
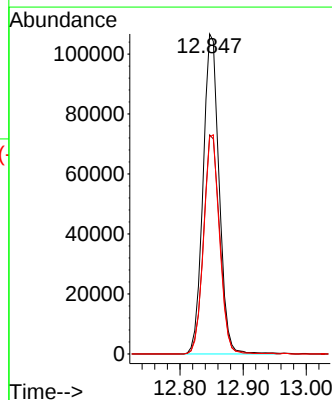
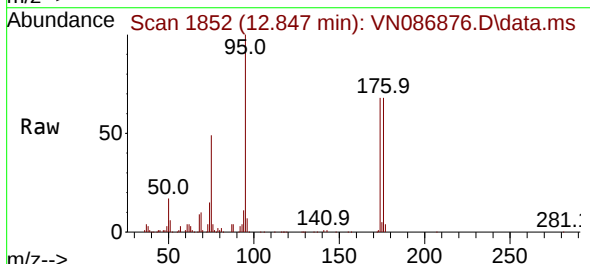
Instrument :  
MSVOA\_N  
ClientSampleId :  
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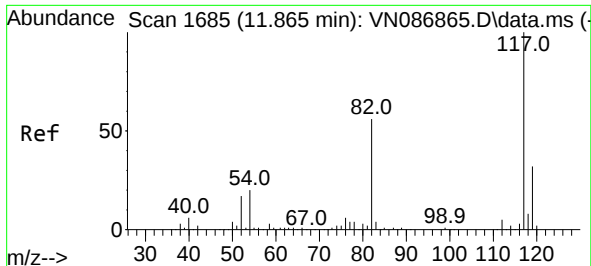
Tgt Ion: 43 Resp: 1528  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 91.3#



#62  
4-Bromofluorobenzene  
Concen: 46.597 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Tgt Ion: 95 Resp: 188017  
Ion Ratio Lower Upper  
95 100  
174 69.0 0.0 141.8  
176 67.6 0.0 132.6

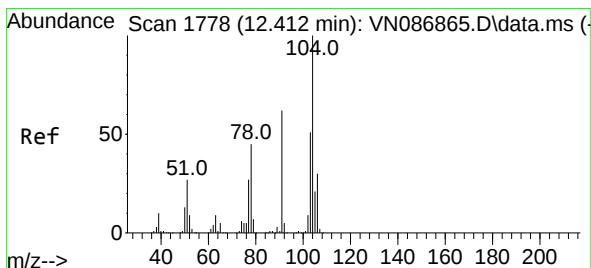
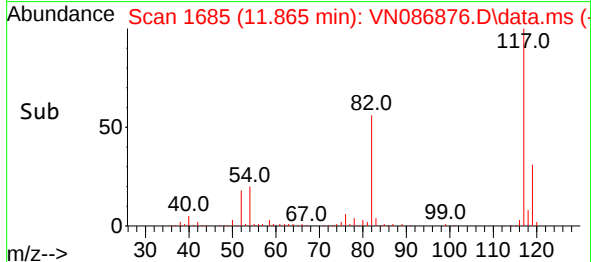
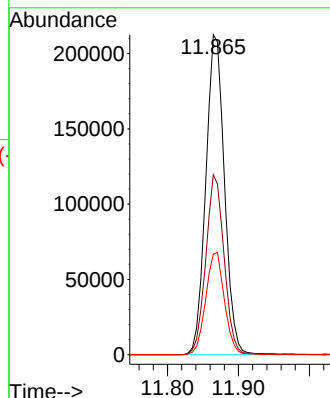
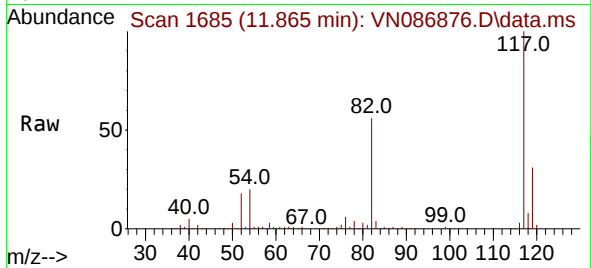




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

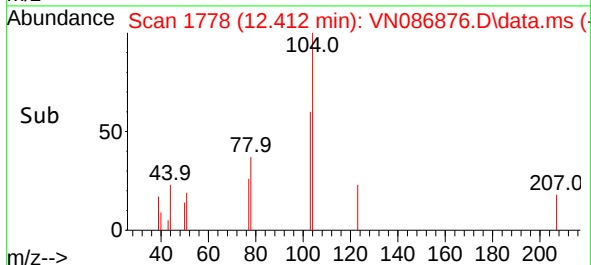
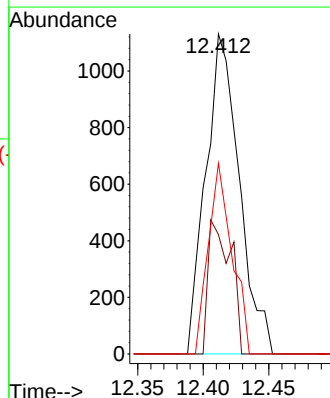
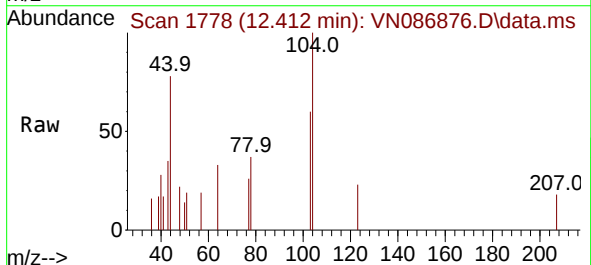
Instrument :  
MSVOA\_N  
ClientSampleId :  
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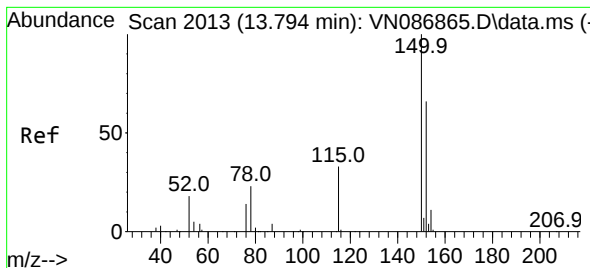
Tgt Ion:117 Resp: 388353  
Ion Ratio Lower Upper  
117 100  
82 56.3 44.6 67.0  
119 31.4 25.5 38.3



#70  
Styrene  
Concen: 0.217 ug/l  
RT: 12.412 min Scan# 1778  
Delta R.T. -0.000 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Tgt Ion:104 Resp: 2008  
Ion Ratio Lower Upper  
104 100  
78 28.3 38.5 57.7#  
103 42.2 43.1 64.7#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN086876.D

Acq: 06 Jun 2025 19:05

Instrument :

MSVOA\_N

ClientSampleId :

3887

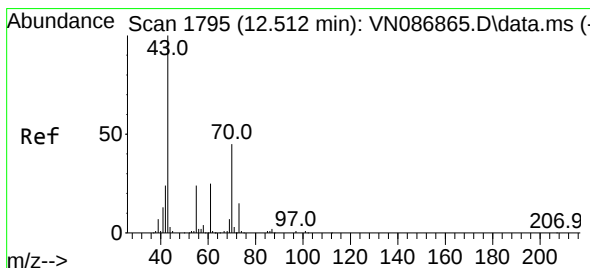
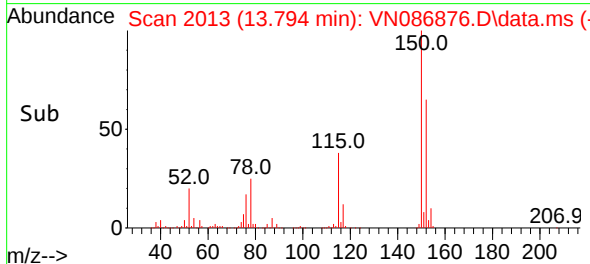
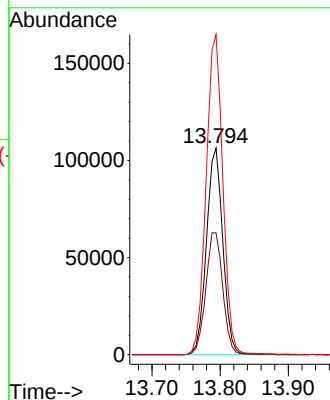
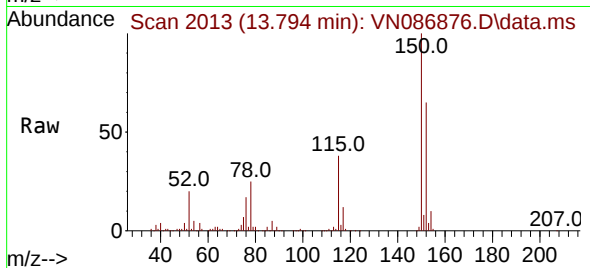
Tgt Ion:152 Resp: 177699

Ion Ratio Lower Upper

152 100

115 61.4 30.1 90.5

150 158.2 0.0 345.0



#74

N-ethyl acetate

Concen: 0.285 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.018 min

Lab File: VN086876.D

Acq: 06 Jun 2025 19:05

Tgt Ion: 43 Resp: 1288

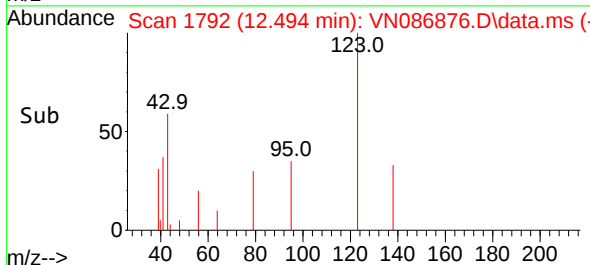
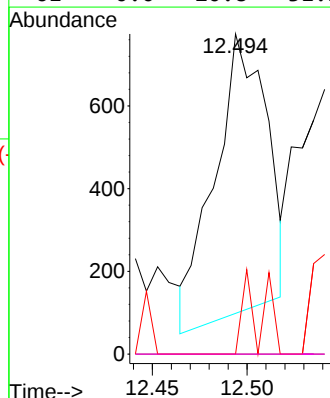
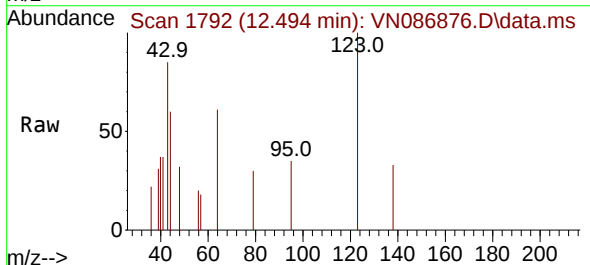
Ion Ratio Lower Upper

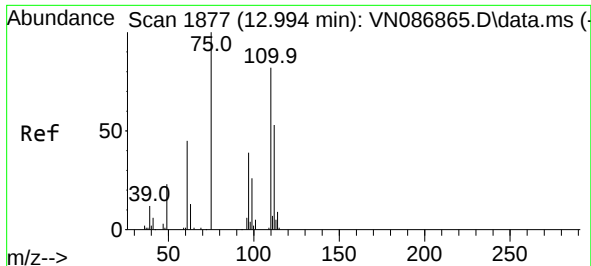
43 100

70 0.0 37.6 56.4#

55 11.0 19.0 28.6#

61 0.0 20.8 31.2#

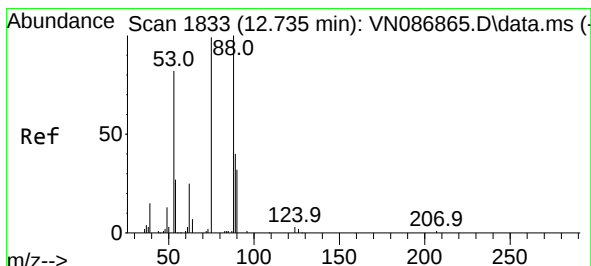
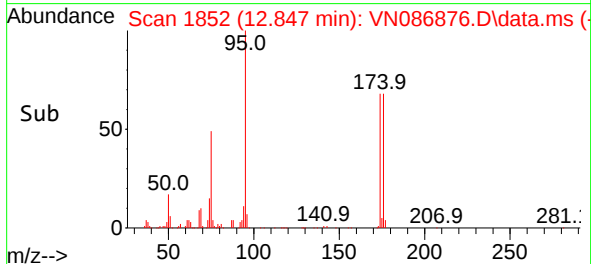
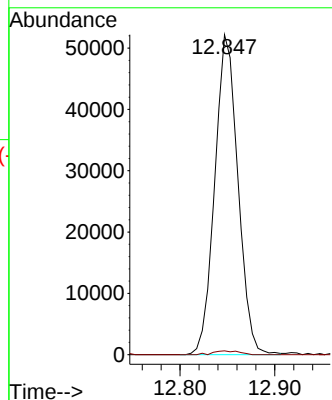
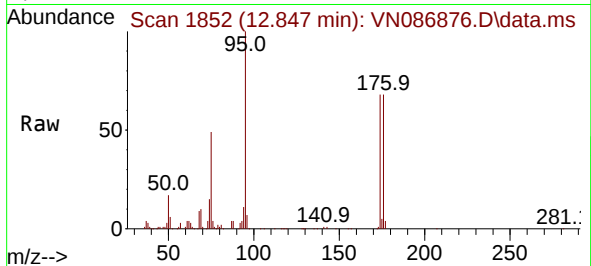




#76  
1,2,3-Trichloropropane  
Concen: 21.025 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
3887

Tgt Ion: 75 Resp: 88807  
Ion Ratio Lower Upper  
75 100  
77 1.3 79.3 237.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 48.397 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN086876.D  
Acq: 06 Jun 2025 19:05

Tgt Ion: 75 Resp: 88807  
Ion Ratio Lower Upper  
75 100  
53 0.0 66.6 99.8#  
89 0.0 36.7 55.1#

