

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090825\  
 Data File : VN087756.D  
 Acq On : 08 Sep 2025 13:19  
 Operator : JC\MD  
 Sample : PB169581TB  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB169581TB

Quant Time: Sep 09 02:27:46 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082125W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 22 02:55:42 2025  
 Response via : Initial Calibration

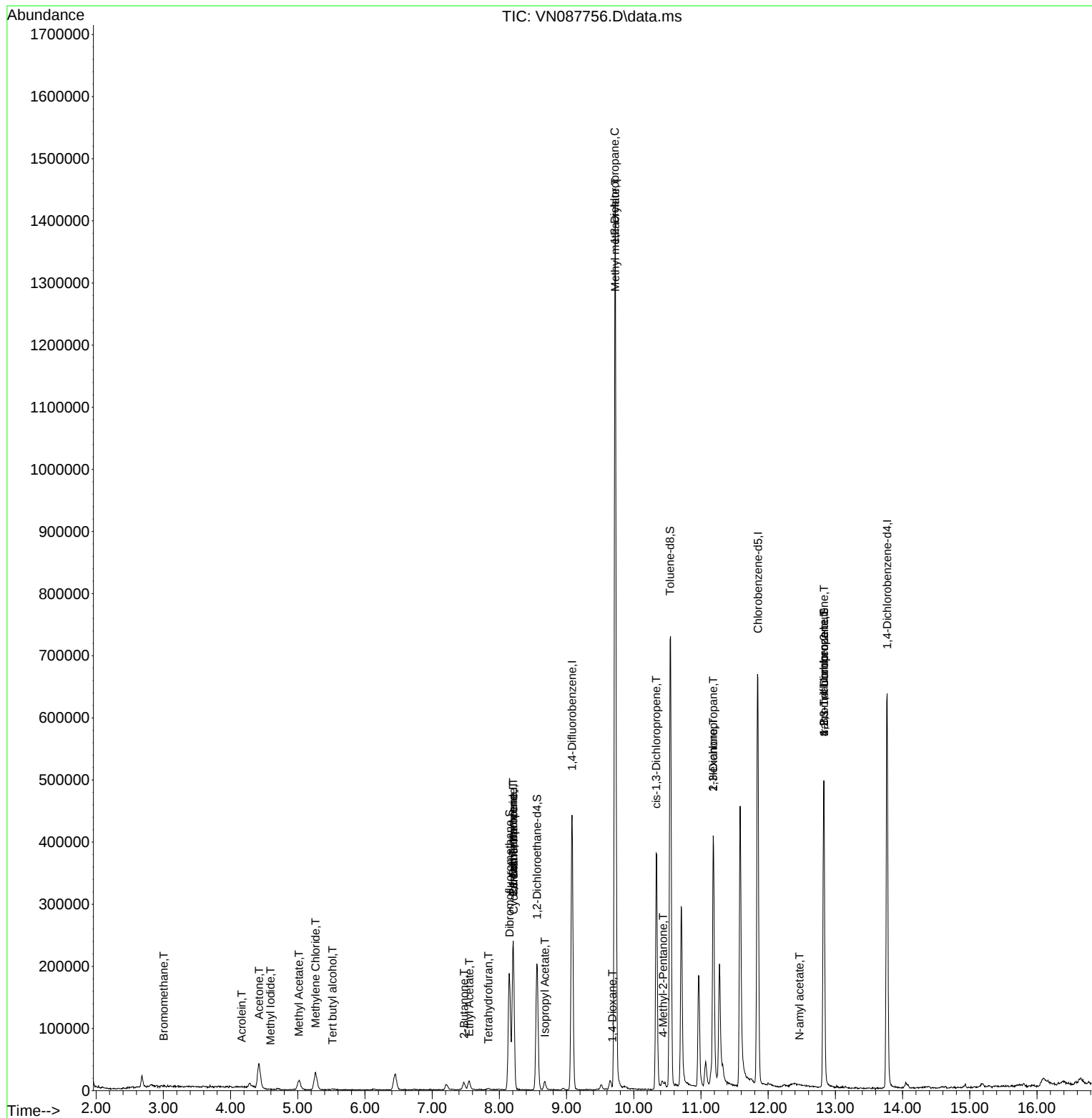
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.206  | 168   | 159071   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.083  | 114   | 364907   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.847 | 117   | 362566   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.770 | 152   | 162501   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.559  | 65    | 170844   | 52.419   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 104.840% |          |
| 35) Dibromofluoromethane      | 8.153  | 113   | 134685   | 51.121   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 102.240% |          |
| 50) Toluene-d8                | 10.541 | 98    | 493261   | 50.022   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 100.040% |          |
| 62) 4-Bromofluorobenzene      | 12.829 | 95    | 173158   | 49.377   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 98.760%  |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 5) Bromomethane               | 3.006  | 94    | 550      | 0.396    | ug/l #     | 76       |
| 10) Methyl Iodide             | 4.595  | 142   | 81       | 6.852    | ug/l #     | 38       |
| 11) Tert butyl alcohol        | 5.518  | 59    | 2185     | 3.862    | ug/l #     | 71       |
| 13) Acrolein                  | 4.165  | 56    | 180      | 0.259    | ug/l #     | 52       |
| 16) Acetone                   | 4.424  | 43    | 74590    | 42.042   | ug/l       | 98       |
| 18) Methyl Acetate            | 5.018  | 43    | 34673    | 9.334    | ug/l       | 99       |
| 20) Methylene Chloride        | 5.265  | 84    | 21733    | 7.411    | ug/l       | 95       |
| 25) 2-Butanone                | 7.477  | 43    | 19818    | 8.490    | ug/l #     | 86       |
| 29) Tetrahydrofuran           | 7.836  | 42    | 1503     | 1.001    | ug/l #     | 38       |
| 31) Cyclohexane               | 8.212  | 56    | 4287     | 1.046    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.206  | 75    | 15677    | 3.879    | ug/l #     | 52       |
| 37) Ethyl Acetate             | 7.553  | 43    | 22526    | 4.079    | ug/l #     | 94       |
| 38) Carbon Tetrachloride      | 8.206  | 117   | 17593    | 4.409    | ug/l #     | 15       |
| 43) Isopropyl Acetate         | 8.677  | 43    | 16201    | 1.879    | ug/l #     | 92       |
| 45) 1,2-Dichloropropane       | 9.718  | 63    | 1673     | 0.512    | ug/l #     | 43       |
| 48) Methyl methacrylate       | 9.724  | 41    | 136756   | 33.529   | ug/l #     | 46       |
| 49) 1,4-Dioxane               | 9.682  | 88    | 156      | 2.951    | ug/l #     | 13       |
| 51) 4-Methyl-2-Pentanone      | 10.435 | 43    | 11546    | 2.219    | ug/l #     | 76       |
| 54) cis-1,3-Dichloropropene   | 10.335 | 75    | 66686    | 13.019   | ug/l #     | 63       |
| 57) 1,3-Dichloropropane       | 11.182 | 76    | 4607     | 0.876    | ug/l #     | 42       |
| 59) 2-Hexanone                | 11.182 | 43    | 87026    | 26.467   | ug/l #     | 52       |
| 74) N-amyl acetate            | 12.465 | 43    | 2051     | 0.412    | ug/l #     | 65       |
| 76) 1,2,3-Trichloropropane    | 12.829 | 75    | 96868    | 25.420   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.829 | 75    | 96868    | 67.296   | ug/l #     | 1        |

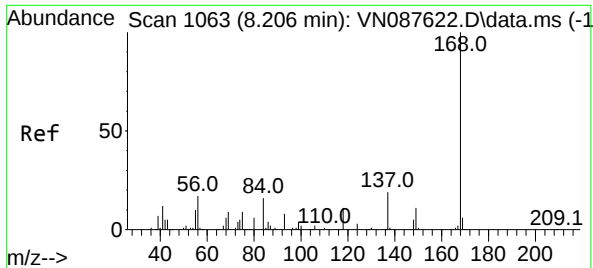
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090825\  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082125W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 22 02:55:42 2025  
Response via : Initial Calibration

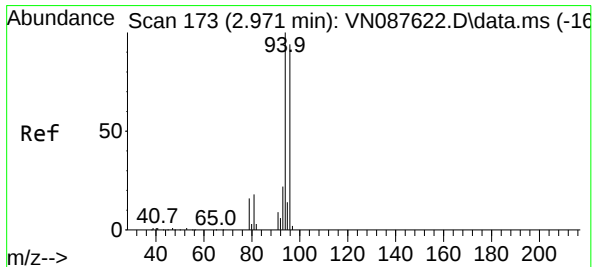
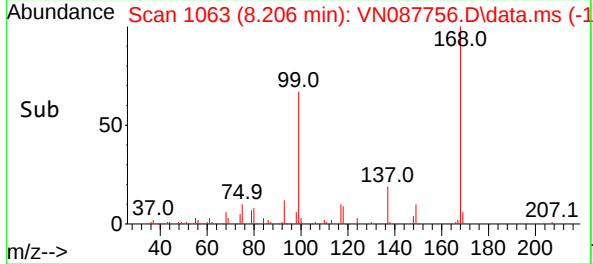
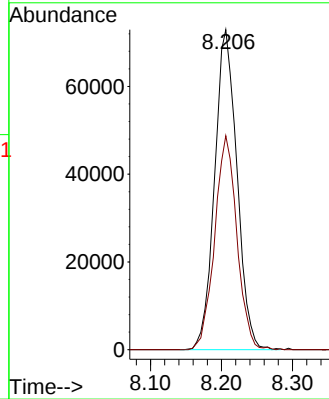
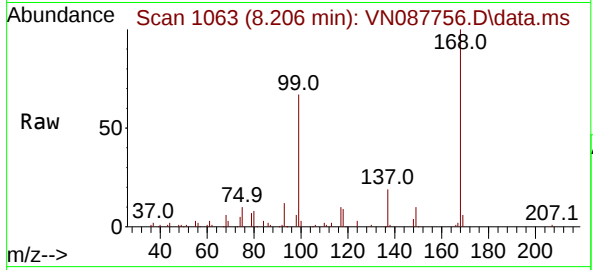




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.206 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

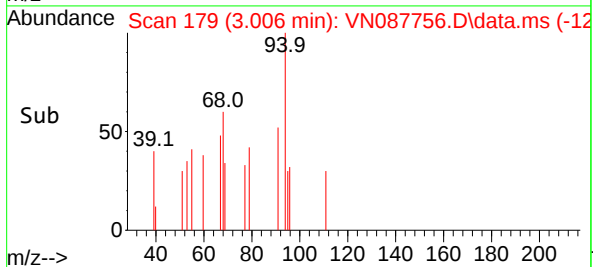
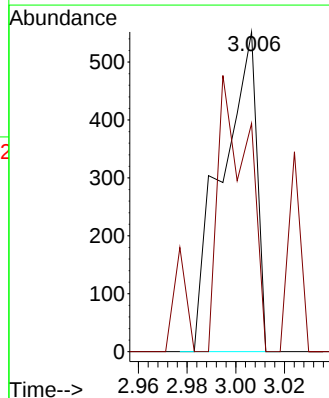
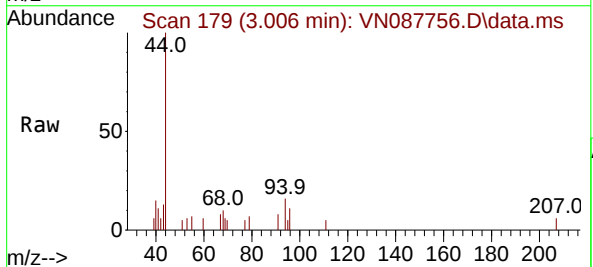
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB169581TB

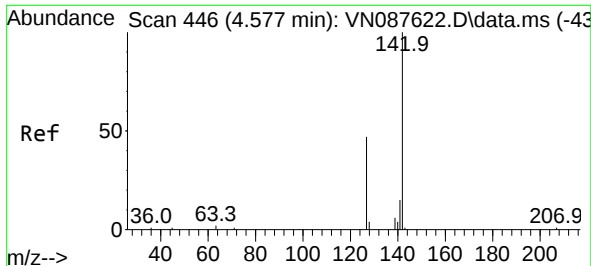
Tgt Ion:168 Resp: 159071  
Ion Ratio Lower Upper  
168 100  
99 66.9 57.2 85.8



#5  
Bromomethane  
Concen: 0.396 ug/l  
RT: 3.006 min Scan# 179  
Delta R.T. 0.035 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

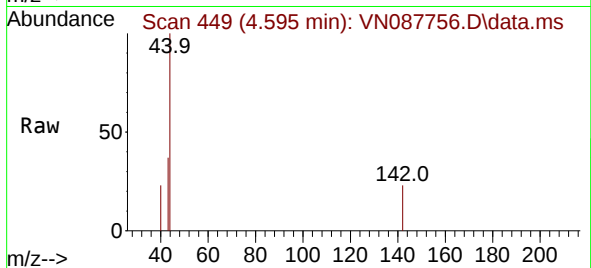
Tgt Ion: 94 Resp: 550  
Ion Ratio Lower Upper  
94 100  
96 71.4 75.4 113.2#



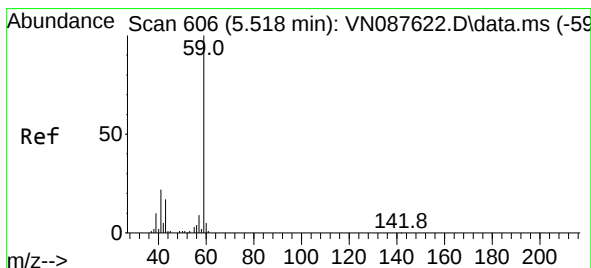
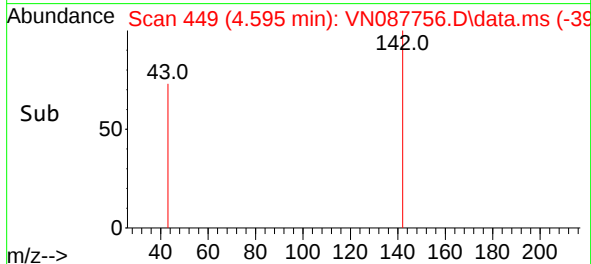
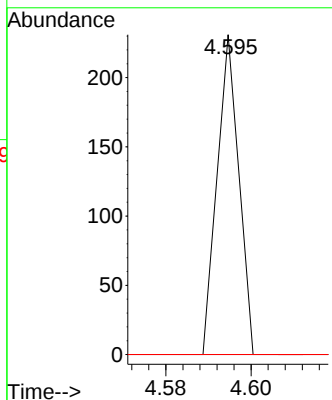


#10  
Methyl Iodide  
Concen: 6.852 ug/l  
RT: 4.595 min Scan# 446  
Delta R.T. 0.018 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB169581TB

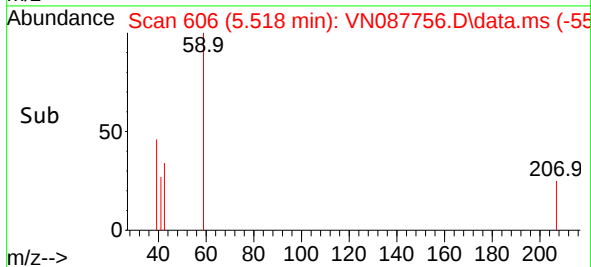
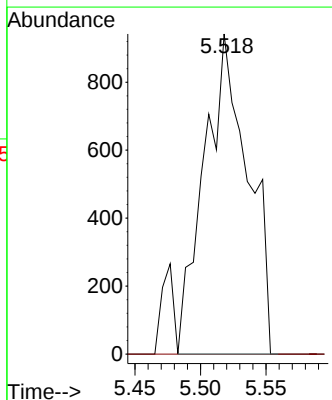
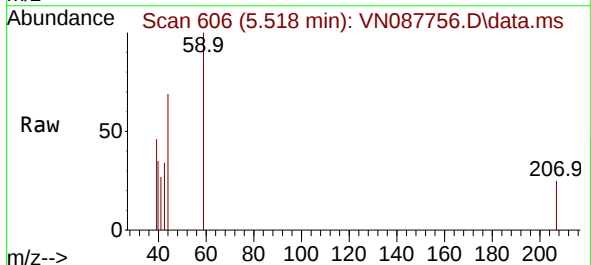


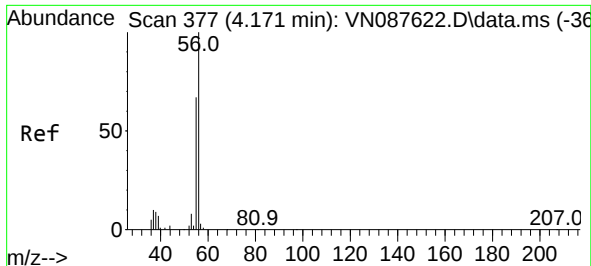
Tgt Ion:142 Resp: 81  
Ion Ratio Lower Upper  
142 100  
127 0.0 38.0 57.0#  
141 0.0 12.0 18.0#



#11  
Tert butyl alcohol  
Concen: 3.862 ug/l  
RT: 5.518 min Scan# 606  
Delta R.T. -0.000 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Tgt Ion: 59 Resp: 2185  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.0 13.4#

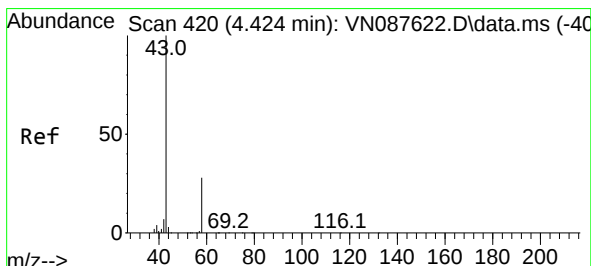
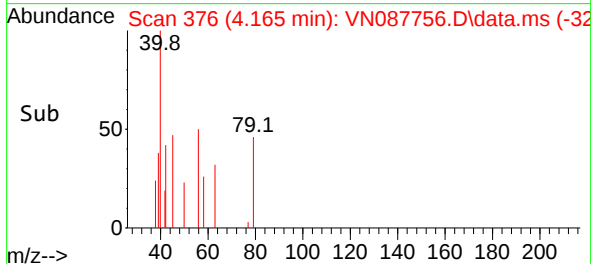
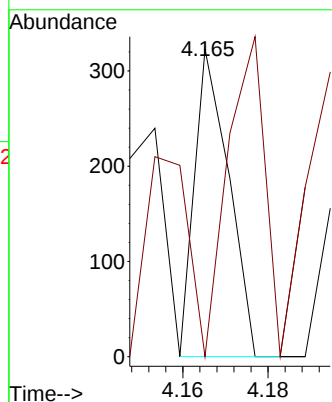
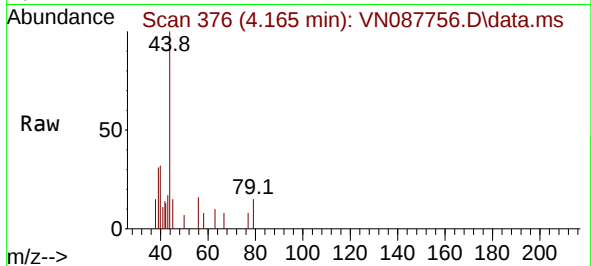




#13  
Acrolein  
Concen: 0.259 ug/l  
RT: 4.165 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

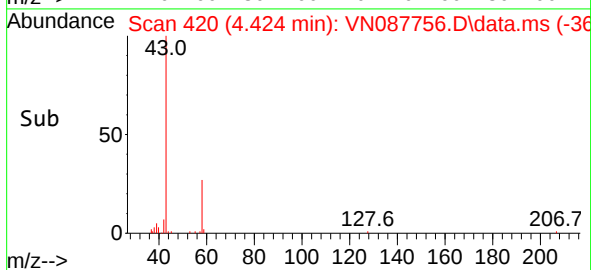
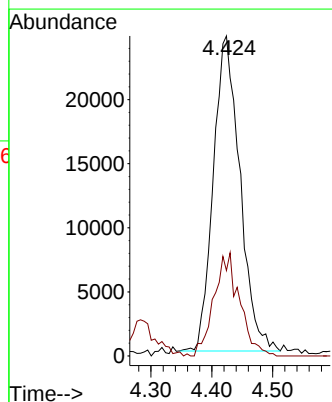
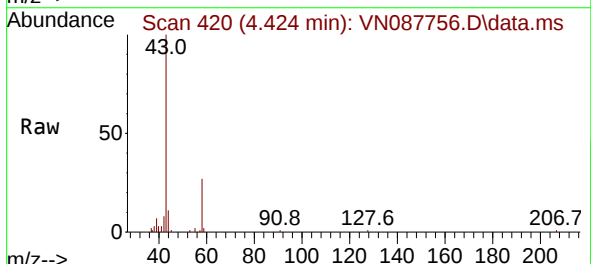
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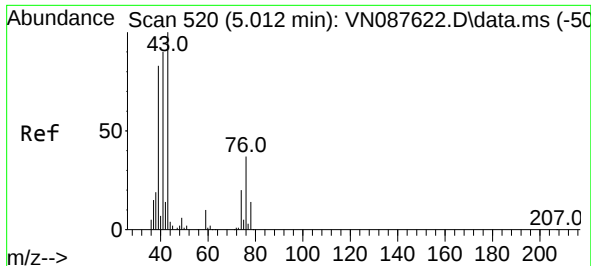
Tgt Ion: 56 Resp: 180  
Ion Ratio Lower Upper  
56 100  
55 111.7 57.3 85.9#



#16  
Acetone  
Concen: 42.042 ug/l  
RT: 4.424 min Scan# 420  
Delta R.T. -0.000 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Tgt Ion: 43 Resp: 74590  
Ion Ratio Lower Upper  
43 100  
58 27.1 22.6 33.8

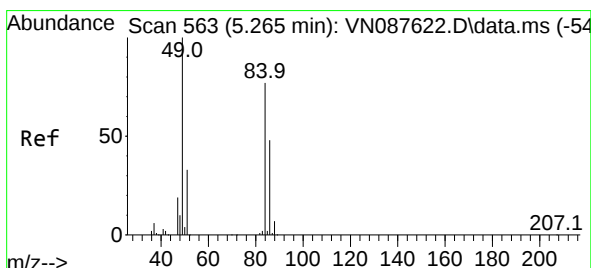
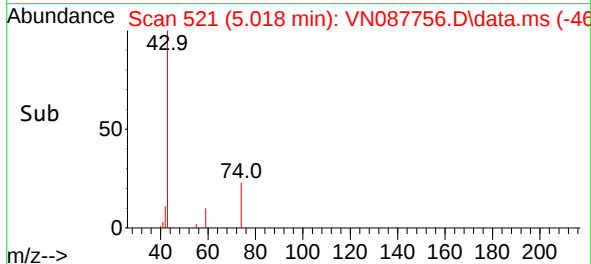
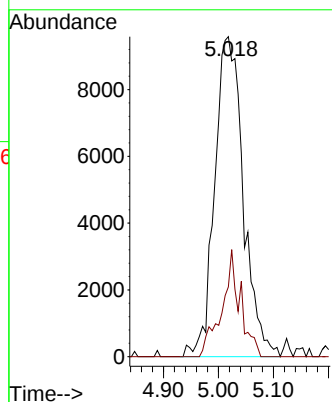
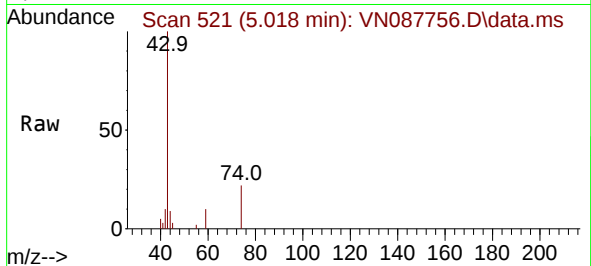




#18  
Methyl Acetate  
Concen: 9.334 ug/l  
RT: 5.018 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

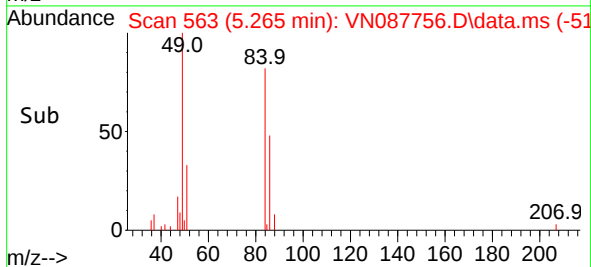
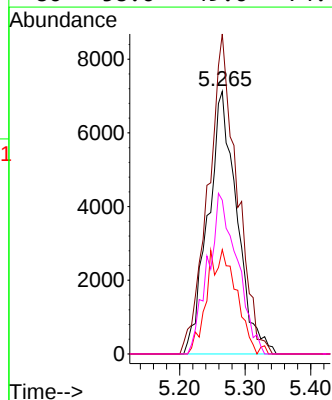
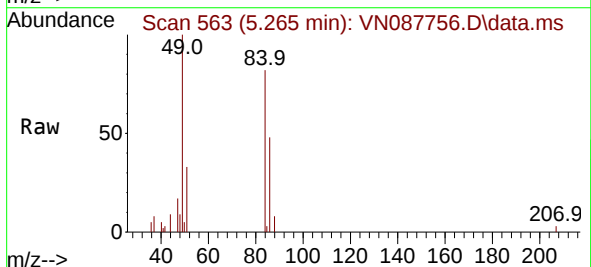
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ClientSampleId :  
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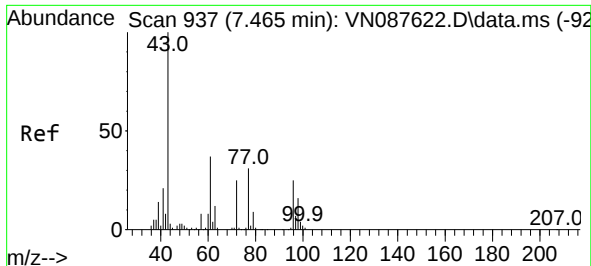
Tgt Ion: 43 Resp: 34673  
Ion Ratio Lower Upper  
43 100  
74 21.7 17.6 26.4



#20  
Methylene Chloride  
Concen: 7.411 ug/l  
RT: 5.265 min Scan# 563  
Delta R.T. 0.000 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Tgt Ion: 84 Resp: 21733  
Ion Ratio Lower Upper  
84 100  
49 121.9 103.4 155.2  
51 39.7 33.8 50.8  
86 58.6 49.6 74.4

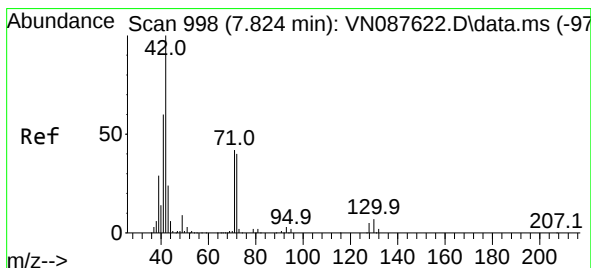
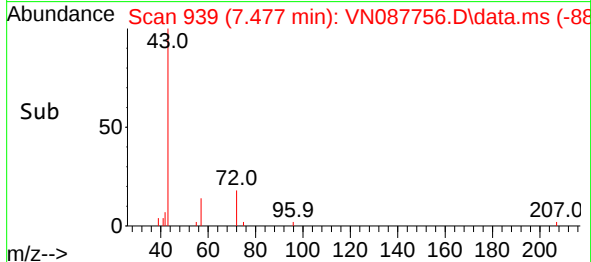
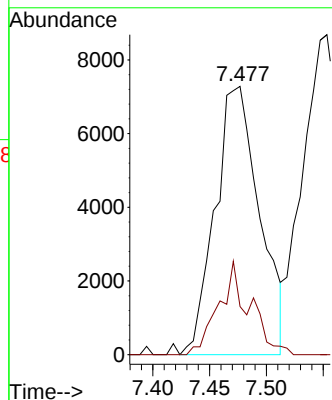
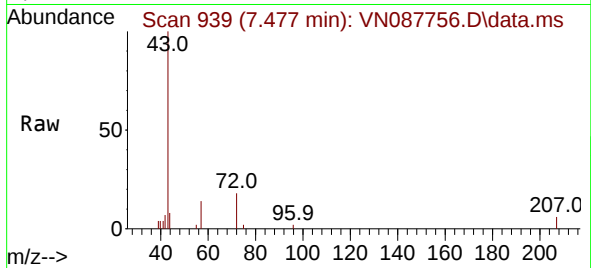




#25  
2-Butanone  
Concen: 8.490 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

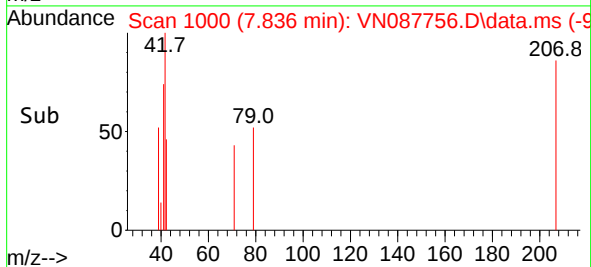
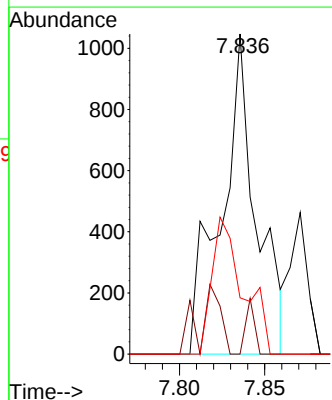
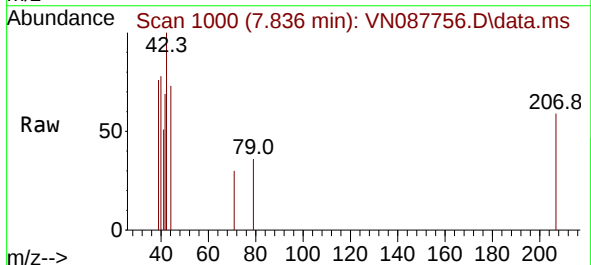
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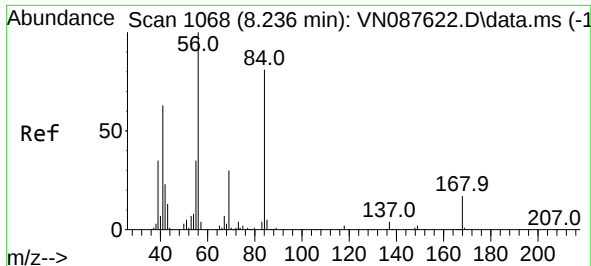
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Ion Ratio Lower Upper  
43 100  
72 17.9 19.9 29.9#



#29  
Tetrahydrofuran  
Concen: 1.001 ug/l  
RT: 7.836 min Scan# 1000  
Delta R.T. 0.012 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Tgt Ion: 42 Resp: 1503  
Ion Ratio Lower Upper  
42 100  
72 4.3 33.7 50.5#  
71 0.0 31.9 47.9#

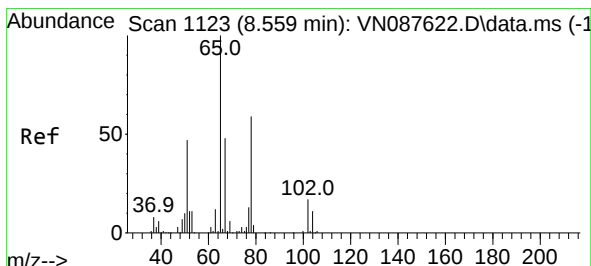
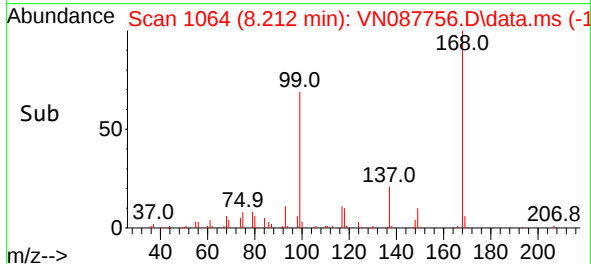
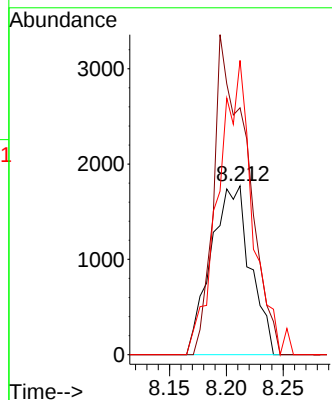
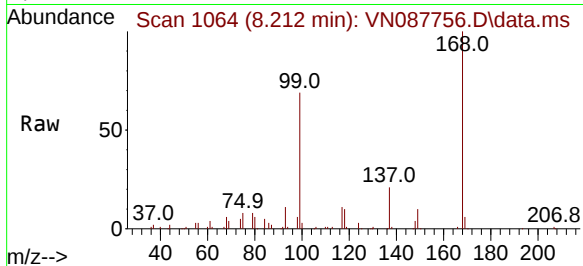




#31  
Cyclohexane  
Concen: 1.046 ug/l  
RT: 8.212 min Scan# 1064  
Delta R.T. -0.024 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

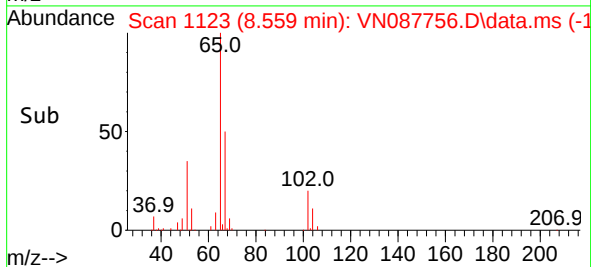
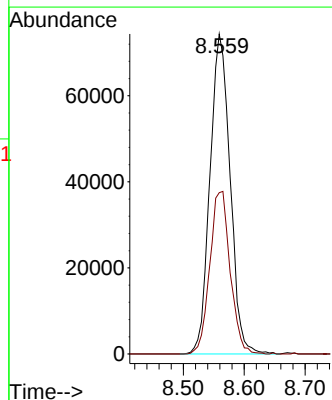
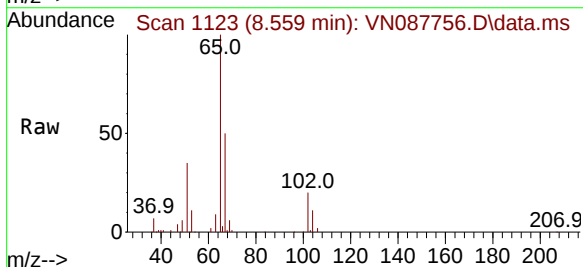
Instrument :  
MSVOA\_N  
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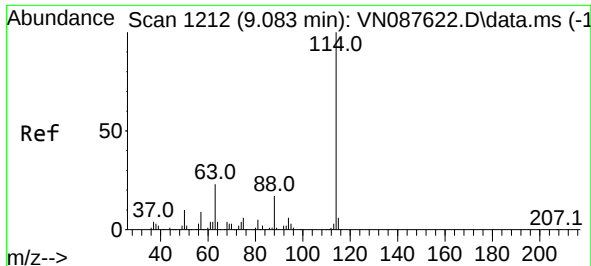
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Ion Ratio Lower Upper  
56 100  
69 146.2 23.7 35.5#  
84 174.3 64.7 97.1#



#33  
1,2-Dichloroethane-d4  
Concen: 52.419 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.000 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Tgt Ion: 65 Resp: 170844  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087756.D

Acq: 08 Sep 2025 13:19

Instrument :

MSVOA\_N

ClientSampleId :

PB169581TB

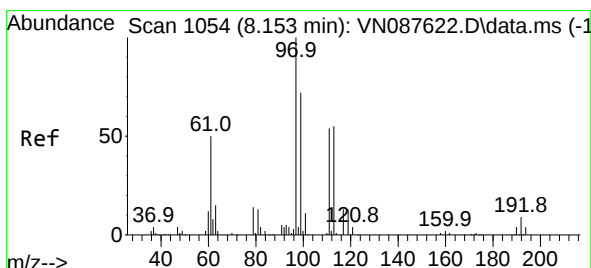
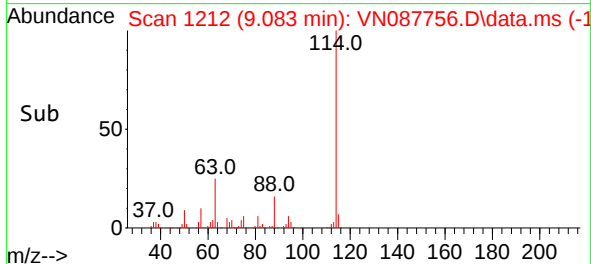
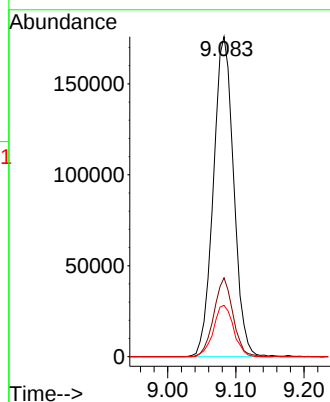
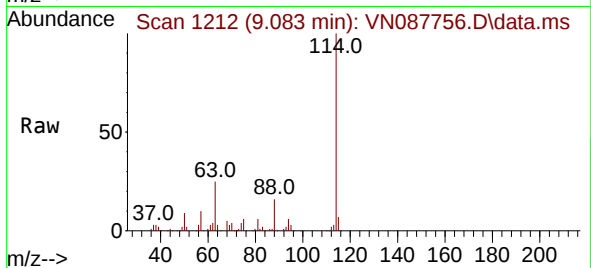
Tgt Ion:114 Resp: 364907

Ion Ratio Lower Upper

114 100

63 24.6 0.0 45.2

88 16.0 0.0 33.4



#35

Dibromofluoromethane

Concen: 51.121 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087756.D

Acq: 08 Sep 2025 13:19

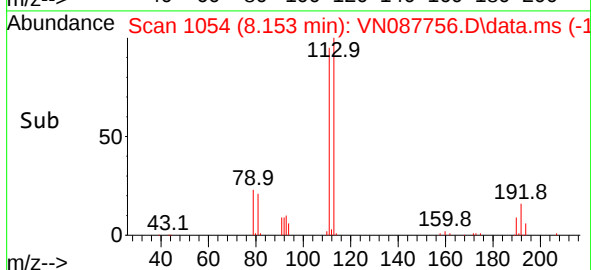
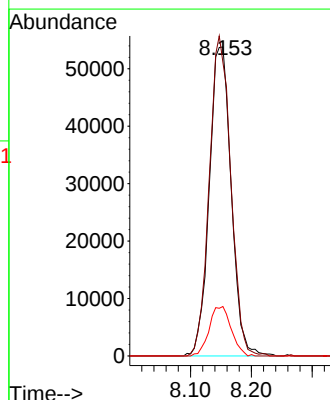
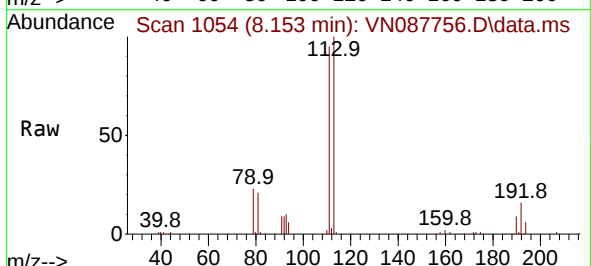
Tgt Ion:113 Resp: 134685

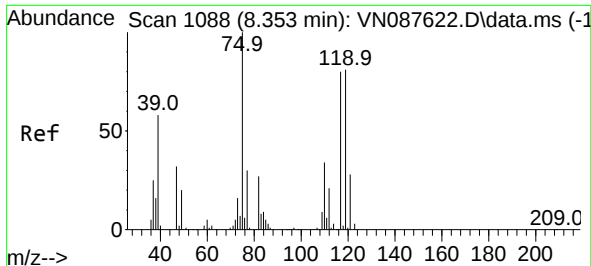
Ion Ratio Lower Upper

113 100

111 101.4 82.8 124.2

192 16.1 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.879 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087756.D

Acq: 08 Sep 2025 13:19

Instrument :

MSVOA\_N

ClientSampleId :

PB169581TB

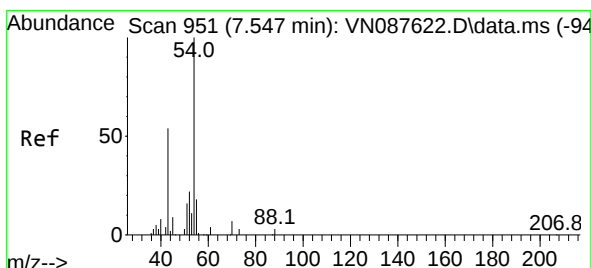
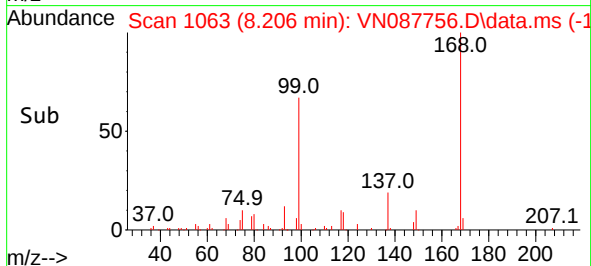
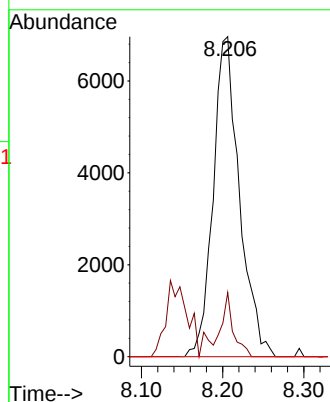
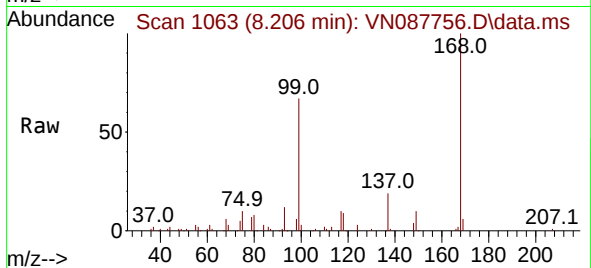
Tgt Ion: 75 Resp: 15677

Ion Ratio Lower Upper

75 100

110 8.8 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 4.079 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN087756.D

Acq: 08 Sep 2025 13:19

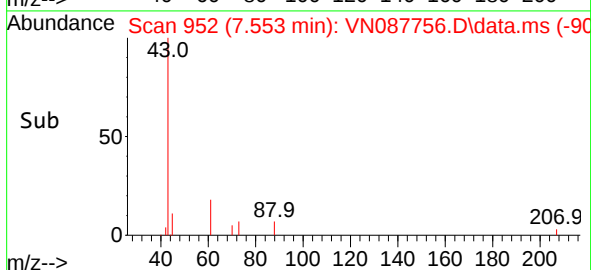
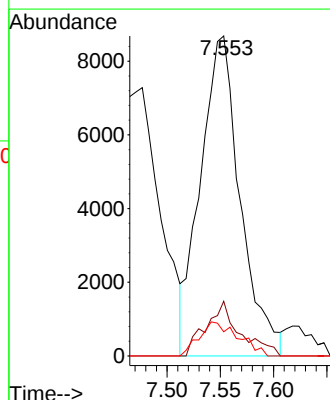
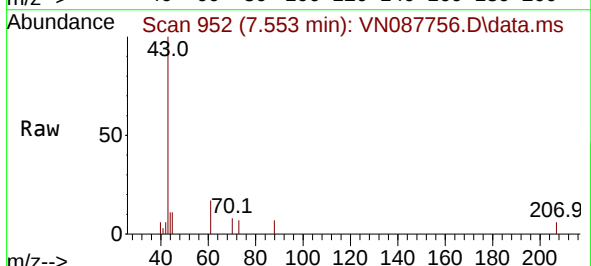
Tgt Ion: 43 Resp: 22526

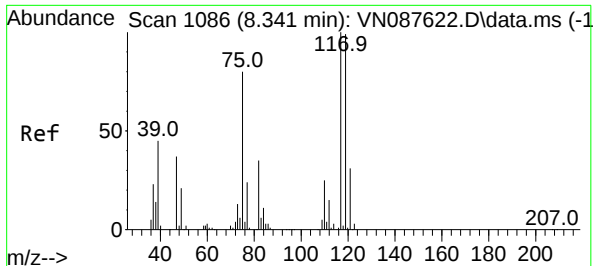
Ion Ratio Lower Upper

43 100

61 14.6 9.3 13.9#

70 10.5 7.0 10.6

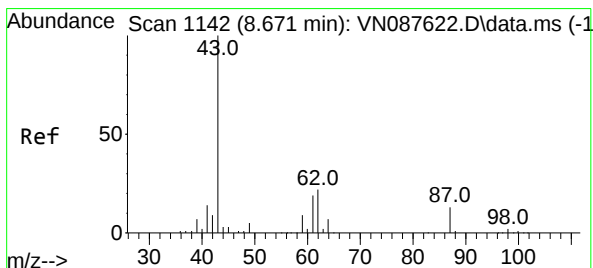
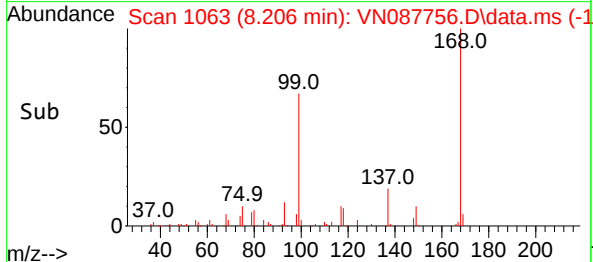
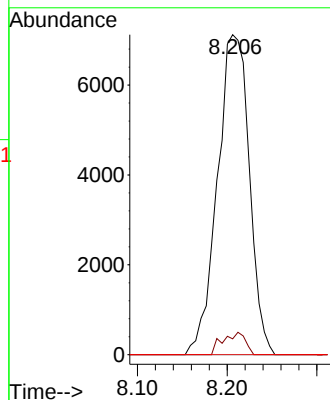
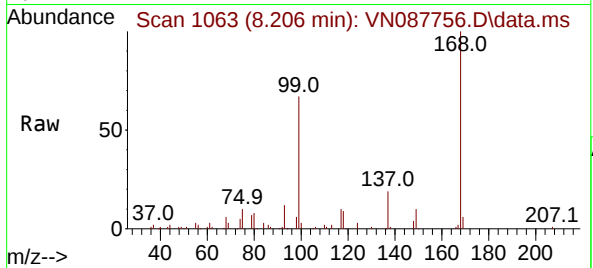




#38  
Carbon Tetrachloride  
Concen: 4.409 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. -0.135 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

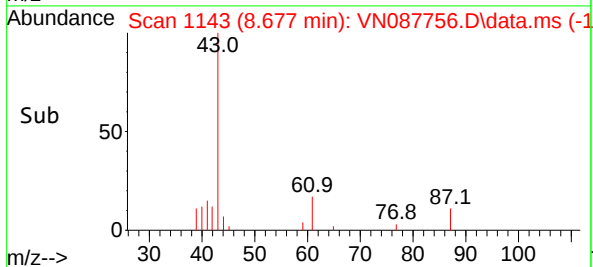
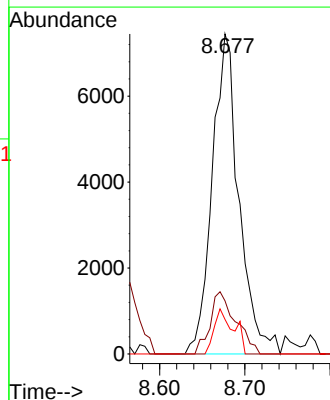
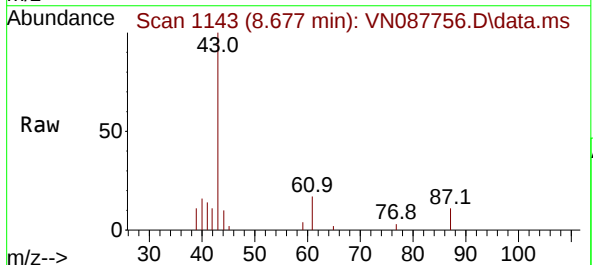
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB169581TB

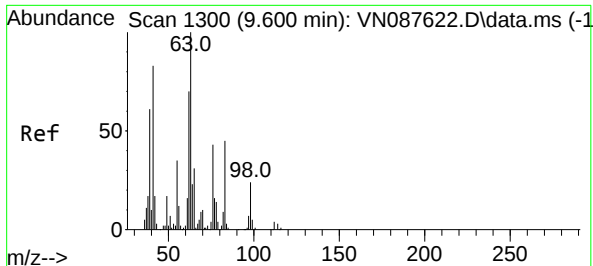
Tgt Ion:117 Resp: 17593  
Ion Ratio Lower Upper  
117 100  
119 5.0 79.0 118.6#  
121 0.0 25.0 37.6#



#43  
Isopropyl Acetate  
Concen: 1.879 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. 0.006 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Tgt Ion: 43 Resp: 16201  
Ion Ratio Lower Upper  
43 100  
61 18.8 18.8 28.2#  
87 10.2 9.6 14.4





#45

1,2-Dichloropropane

Concen: 0.512 ug/l

RT: 9.718 min Scan# 1320

Delta R.T. 0.118 min

Lab File: VN087756.D

Acq: 08 Sep 2025 13:19

Instrument :

MSVOA\_N

ClientSampleId :

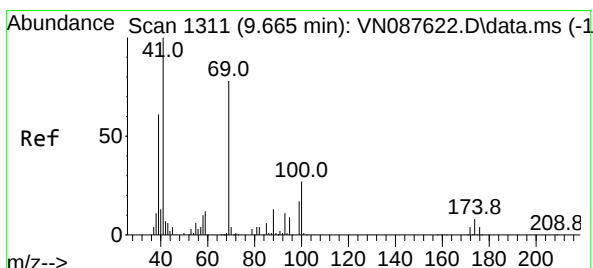
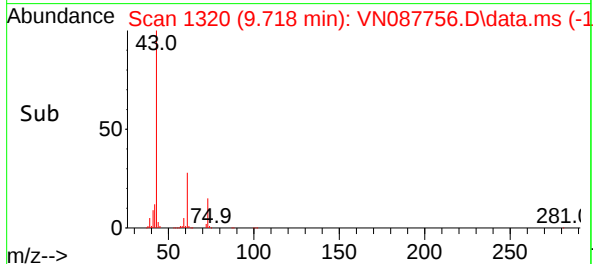
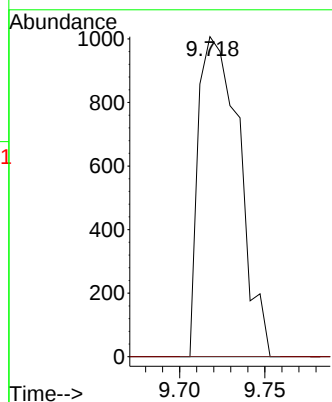
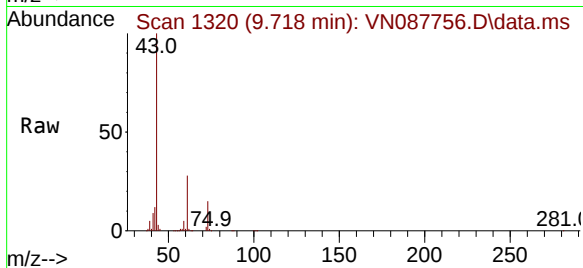
PB169581TB

Tgt Ion: 63 Resp: 1673

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 33.529 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087756.D

Acq: 08 Sep 2025 13:19

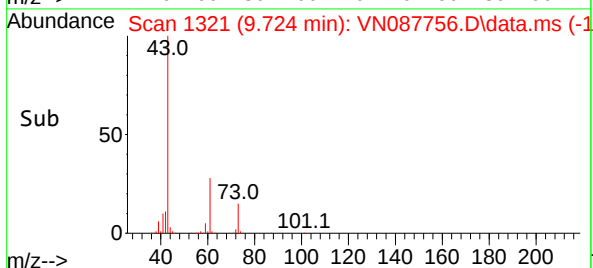
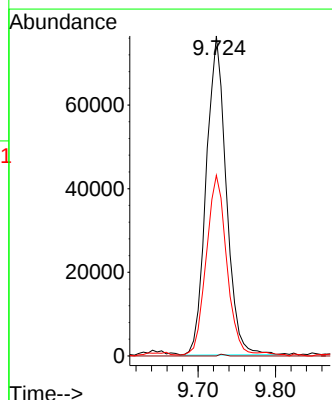
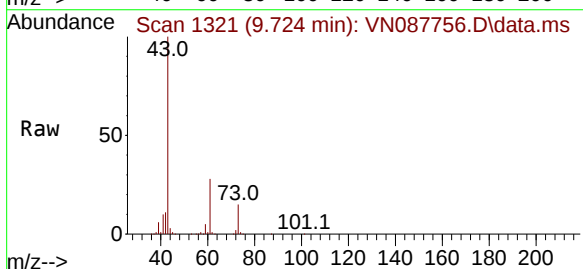
Tgt Ion: 41 Resp: 136756

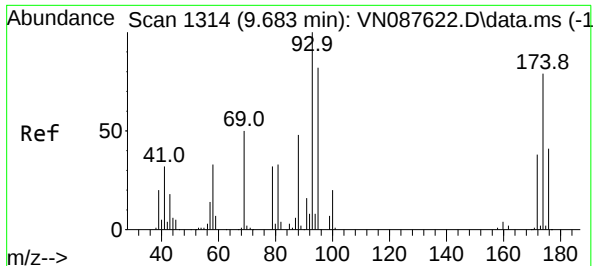
Ion Ratio Lower Upper

41 100

69 0.2 62.7 94.1#

39 57.2 52.9 79.3





#49

1,4-Dioxane

Concen: 2.951 ug/l

RT: 9.682 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087756.D

Acq: 08 Sep 2025 13:19

Instrument :

MSVOA\_N

ClientSampleId :

PB169581TB

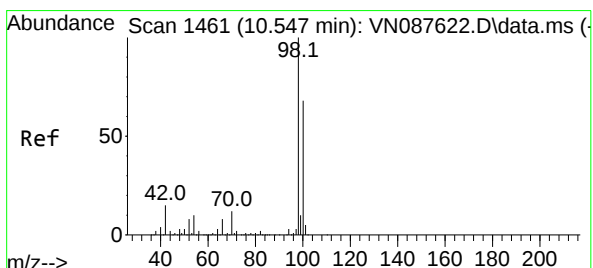
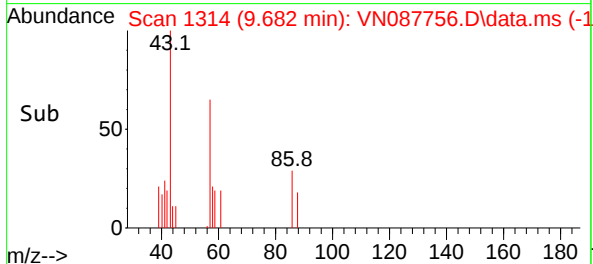
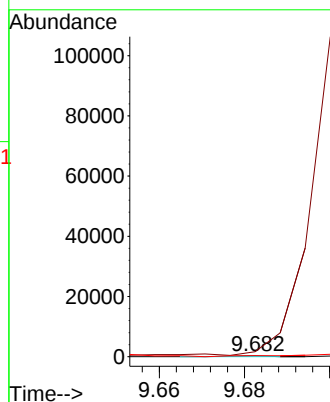
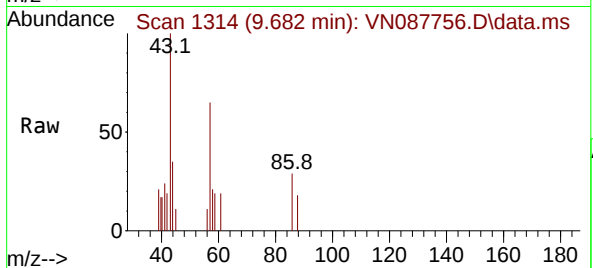
Tgt Ion: 88 Resp: 156

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 57.9 86.9#



#50

Toluene-d8

Concen: 50.022 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN087756.D

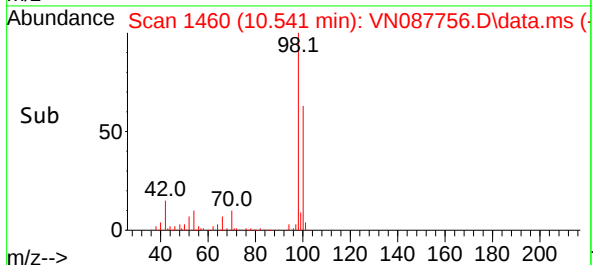
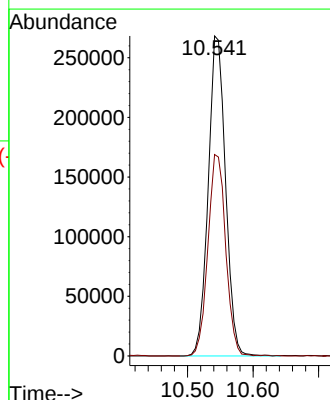
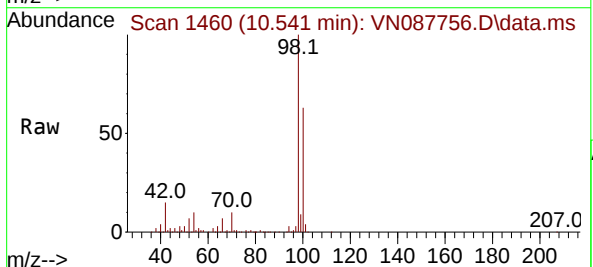
Acq: 08 Sep 2025 13:19

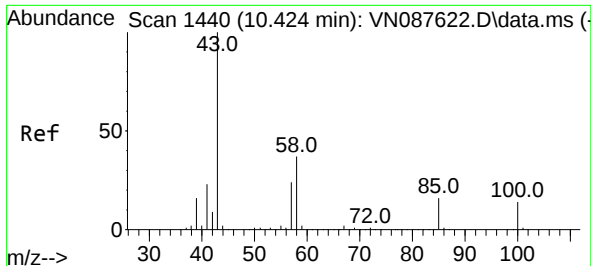
Tgt Ion: 98 Resp: 493261

Ion Ratio Lower Upper

98 100

100 64.6 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 2.219 ug/l

RT: 10.435 min Scan# 1440

Delta R.T. 0.012 min

Lab File: VN087756.D

Acq: 08 Sep 2025 13:19

Instrument :

MSVOA\_N

ClientSampleId :

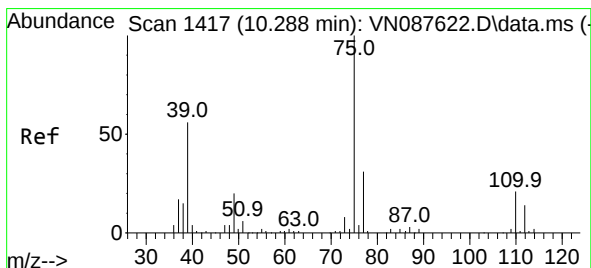
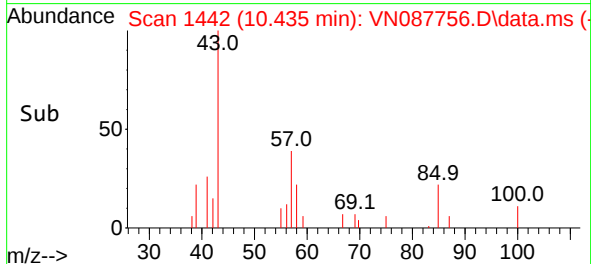
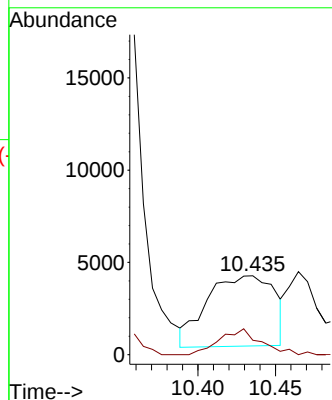
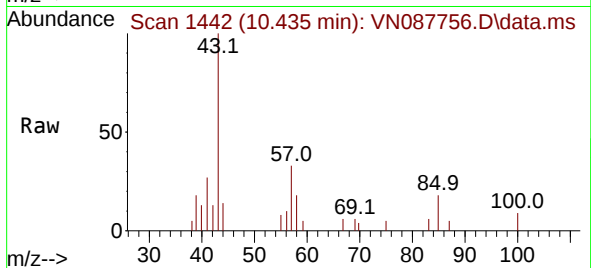
PB169581TB

Tgt Ion: 43 Resp: 11546

Ion Ratio Lower Upper

43 100

58 22.7 29.6 44.4#



#54

cis-1,3-Dichloropropene

Concen: 13.019 ug/l

RT: 10.335 min Scan# 1425

Delta R.T. 0.047 min

Lab File: VN087756.D

Acq: 08 Sep 2025 13:19

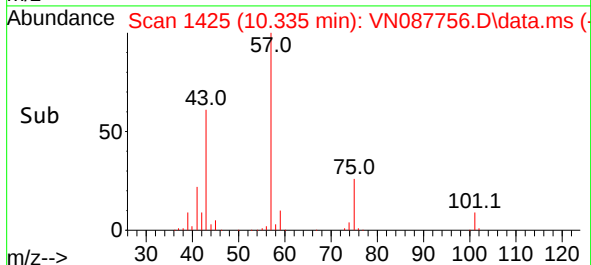
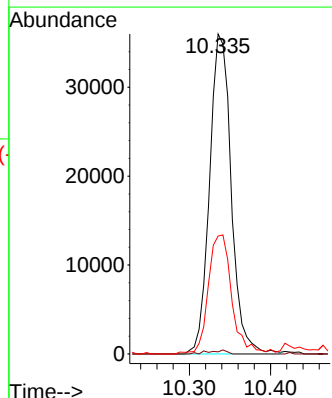
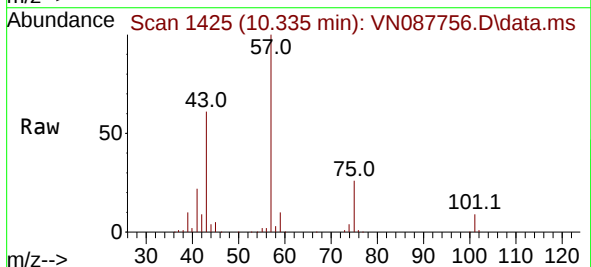
Tgt Ion: 75 Resp: 66686

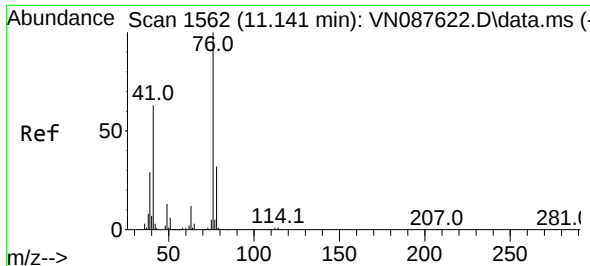
Ion Ratio Lower Upper

75 100

77 0.6 24.6 37.0#

39 36.2 45.2 67.8#

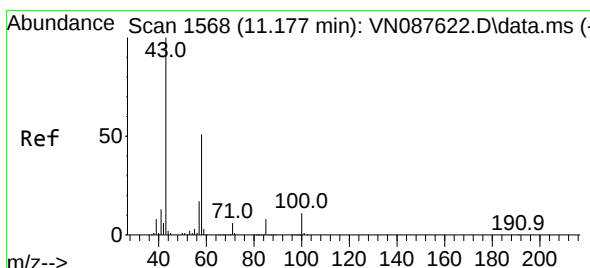
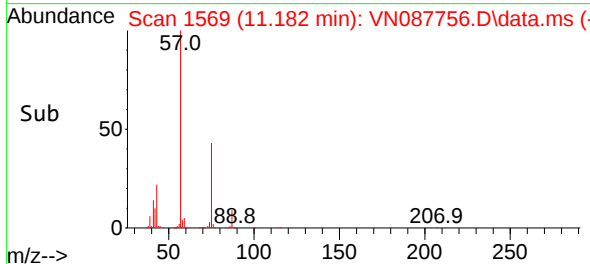
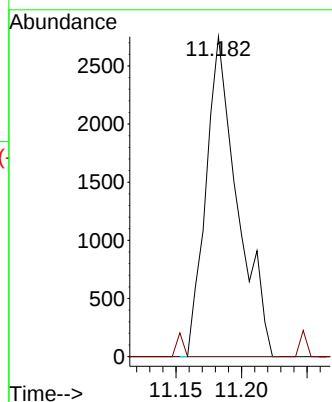
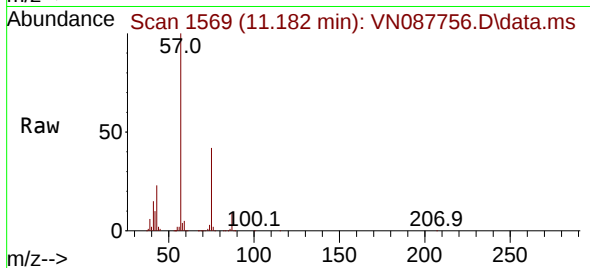




#57  
1,3-Dichloropropane  
Concen: 0.876 ug/l  
RT: 11.182 min Scan# 1569  
Delta R.T. 0.041 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

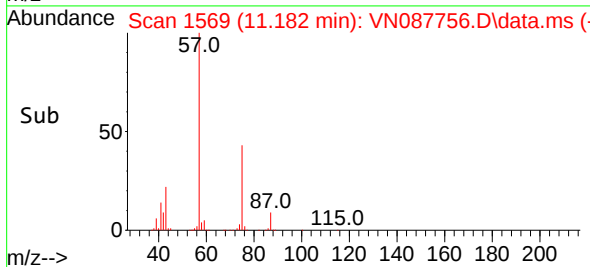
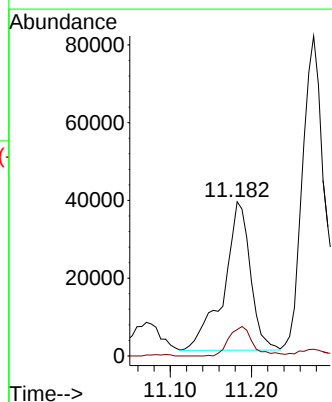
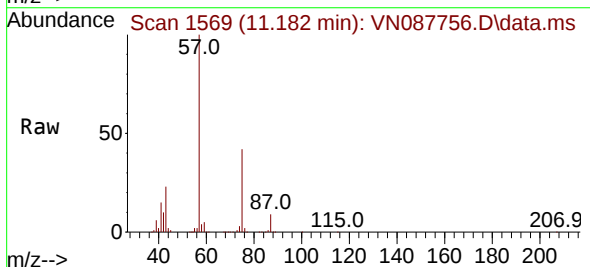
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB169581TB

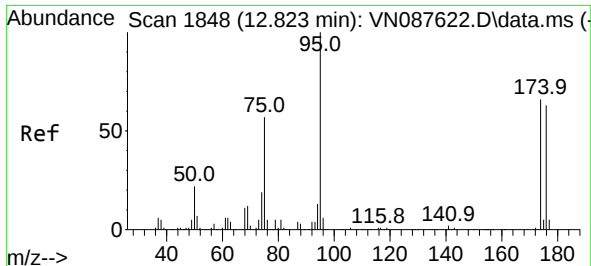
Tgt Ion: 76 Resp: 4607  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.2 39.4#



#59  
2-Hexanone  
Concen: 26.467 ug/l  
RT: 11.182 min Scan# 1569  
Delta R.T. 0.006 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Tgt Ion: 43 Resp: 87026  
Ion Ratio Lower Upper  
43 100  
58 17.9 25.9 77.8#

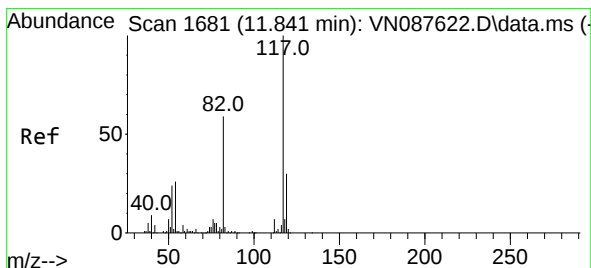
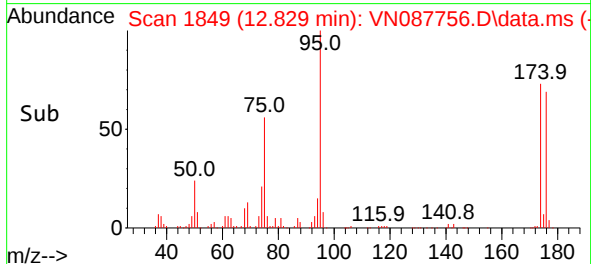
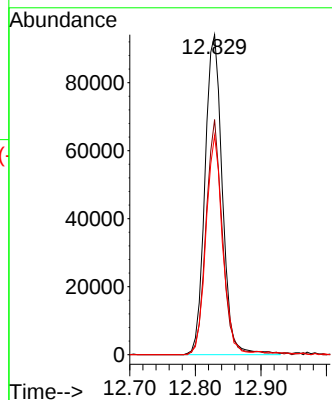
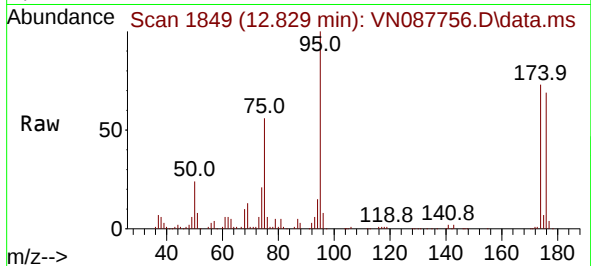




#62  
4-Bromofluorobenzene  
Concen: 49.377 ug/l  
RT: 12.829 min Scan# 1848  
Delta R.T. 0.006 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

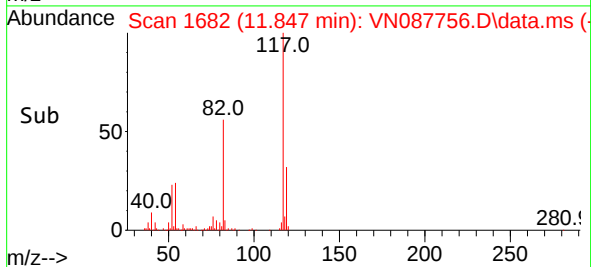
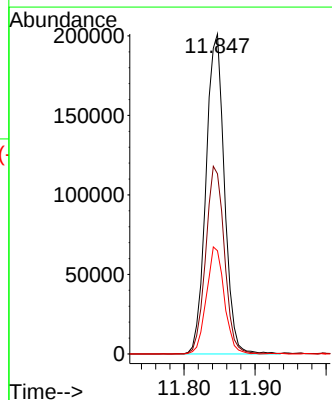
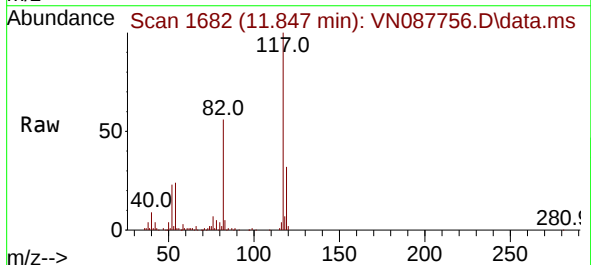
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB169581TB

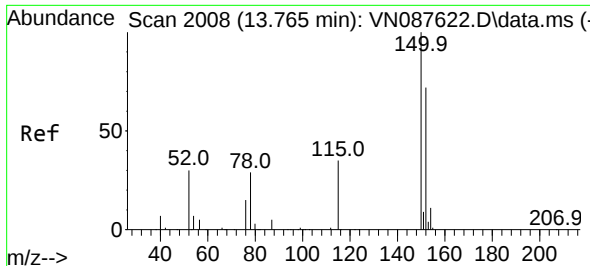
Tgt Ion: 95 Resp: 173158  
Ion Ratio Lower Upper  
95 100  
174 69.5 0.0 138.4  
176 65.5 0.0 132.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.006 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Tgt Ion: 117 Resp: 362566  
Ion Ratio Lower Upper  
117 100  
82 56.2 47.4 71.2  
119 32.2 24.3 36.5

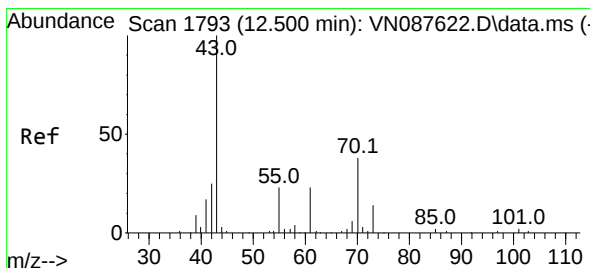
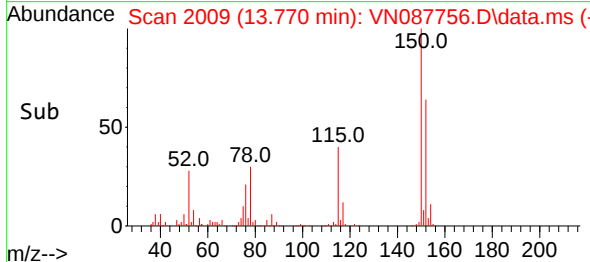
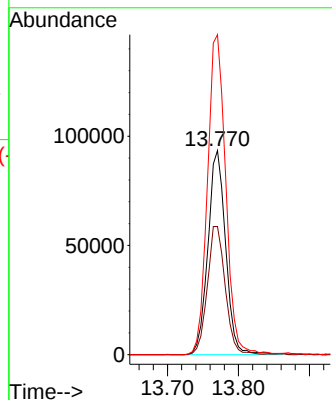
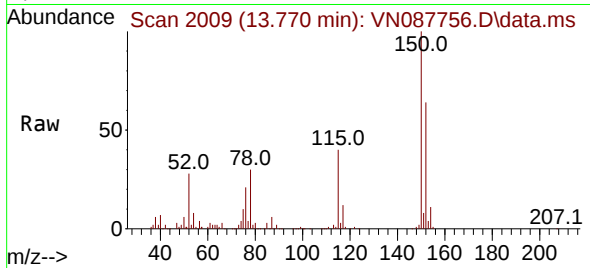




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.770 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

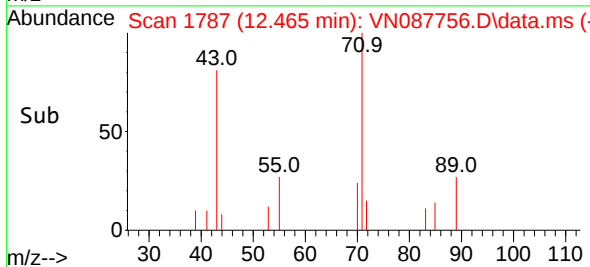
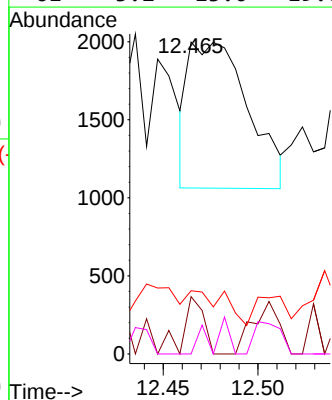
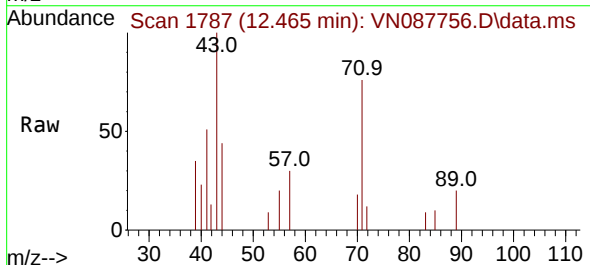
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB169581TB

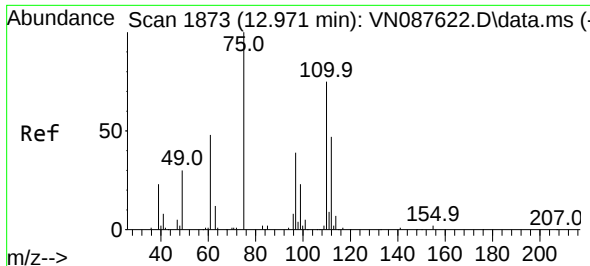
Tgt Ion:152 Resp: 162501  
Ion Ratio Lower Upper  
152 100  
115 63.5 32.3 96.8  
150 160.8 0.0 351.0



#74  
N-amy1 acetate  
Concen: 0.412 ug/l  
RT: 12.465 min Scan# 1787  
Delta R.T. -0.035 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Tgt Ion: 43 Resp: 2051  
Ion Ratio Lower Upper  
43 100  
70 13.7 27.6 41.4#  
55 0.0 13.0 19.6#  
61 3.2 13.0 19.6#

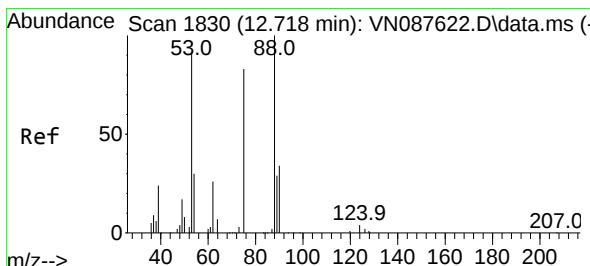
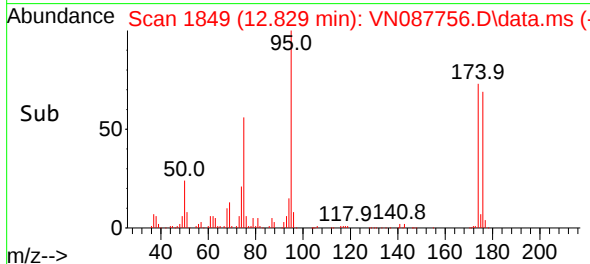
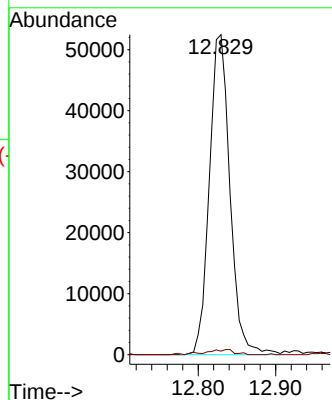
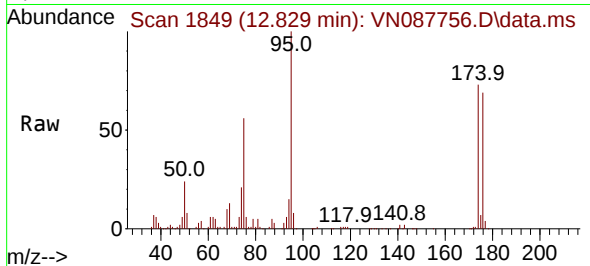




#76  
1,2,3-Trichloropropane  
Concen: 25.420 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.141 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB169581TB

Tgt Ion: 75 Resp: 96868  
Ion Ratio Lower Upper  
75 100  
77 1.7 89.1 267.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 67.296 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.112 min  
Lab File: VN087756.D  
Acq: 08 Sep 2025 13:19

Tgt Ion: 75 Resp: 96868  
Ion Ratio Lower Upper  
75 100  
53 0.2 101.8 152.6#  
89 0.4 35.6 53.4#

