

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031125\  
 Data File : VN085937.D  
 Acq On : 11 Mar 2025 17:28  
 Operator : JC\MD  
 Sample : PB167050ZHE#03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 12 01:25:17 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 19 03:43:32 2025  
 Response via : Initial Calibration

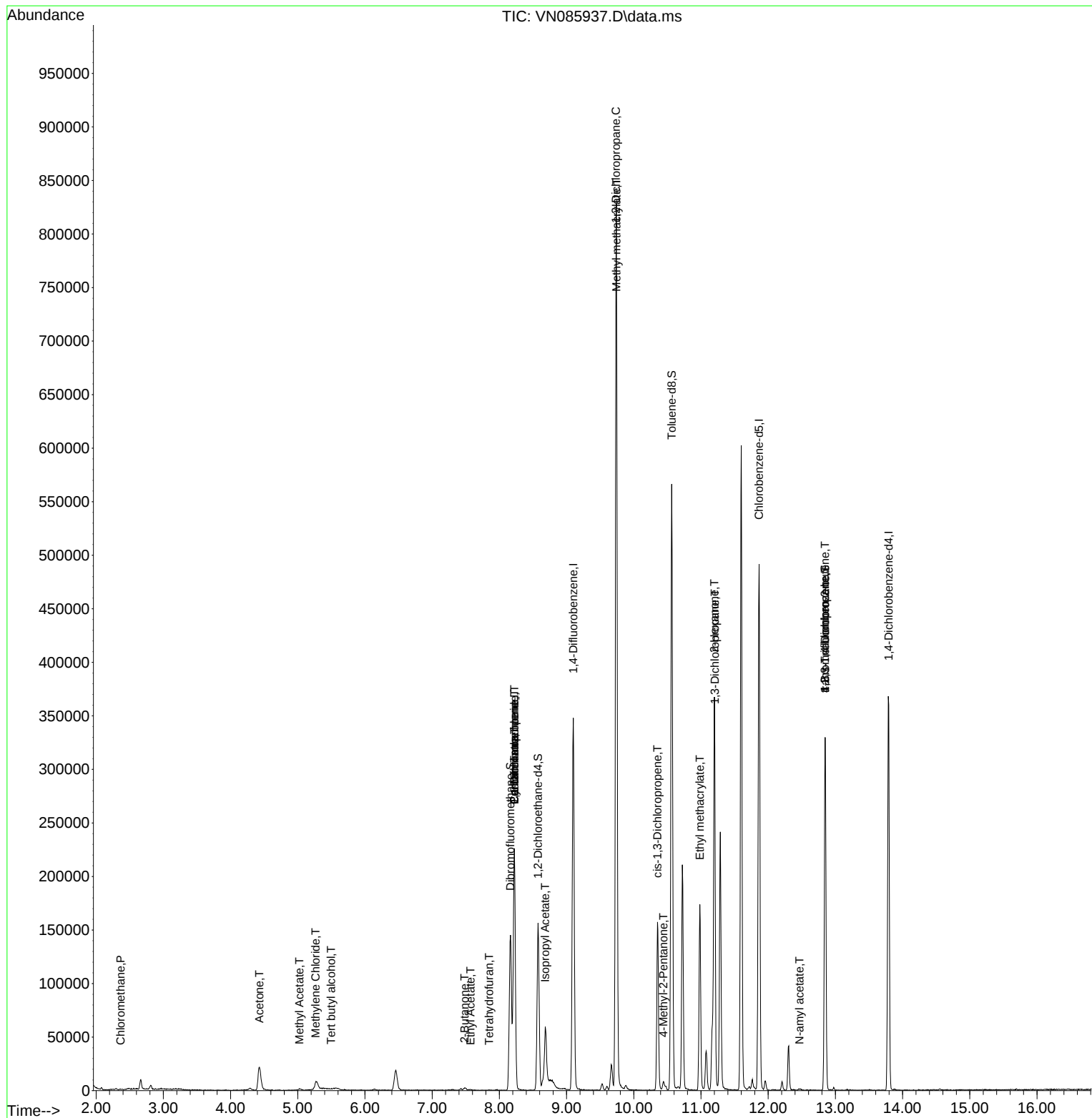
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 159267   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 297554   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 294332   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 105392   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.576  | 65    | 126084   | 61.062   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 122.120% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 106607   | 54.753   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 109.500% |          |
| 50) Toluene-d8                | 10.565 | 98    | 396017   | 55.903   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 111.800% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 117676   | 50.418   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 100.840% |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 3) Chloromethane              | 2.365  | 50    | 512      | 0.236    | ug/l #     | 41       |
| 11) Tert butyl alcohol        | 5.494  | 59    | 62       | 0.244    | ug/l #     | 72       |
| 16) Acetone                   | 4.430  | 43    | 41785    | 63.955   | ug/l       | 98       |
| 18) Methyl Acetate            | 5.024  | 43    | 2483     | 1.105    | ug/l #     | 81       |
| 20) Methylene Chloride        | 5.265  | 84    | 6047     | 2.878    | ug/l       | 93       |
| 25) 2-Butanone                | 7.482  | 43    | 4045     | 4.208    | ug/l       | 94       |
| 29) Tetrahydrofuran           | 7.847  | 42    | 208      | 0.335    | ug/l #     | 29       |
| 31) Cyclohexane               | 8.224  | 56    | 3612     | 1.225    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 13313    | 4.831    | ug/l #     | 48       |
| 37) Ethyl Acetate             | 7.571  | 43    | 1587     | 0.700    | ug/l #     | 66       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 17765    | 5.426    | ug/l #     | 18       |
| 43) Isopropyl Acetate         | 8.682  | 43    | 70043    | 17.242   | ug/l #     | 82       |
| 45) 1,2-Dichloropropane       | 9.735  | 63    | 1078     | 0.506    | ug/l #     | 43       |
| 48) Methyl methacrylate       | 9.741  | 41    | 72076    | 42.797   | ug/l #     | 37       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43    | 8899     | 4.070    | ug/l #     | 73       |
| 54) cis-1,3-Dichloropropene   | 10.353 | 75    | 28414    | 8.710    | ug/l #     | 68       |
| 56) Ethyl methacrylate        | 10.982 | 69    | 1270     | 0.938    | ug/l #     | 1        |
| 57) 1,3-Dichloropropane       | 11.206 | 76    | 3628     | 1.056    | ug/l #     | 42       |
| 59) 2-Hexanone                | 11.200 | 43    | 45517    | 30.262   | ug/l #     | 53       |
| 74) N-amyl acetate            | 12.464 | 43    | 1090     | 0.428    | ug/l #     | 37       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 58956    | 25.183   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 58956    | 73.478   | ug/l #     | 12       |

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021825W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 19 03:43:32 2025  
Response via : Initial Calibration

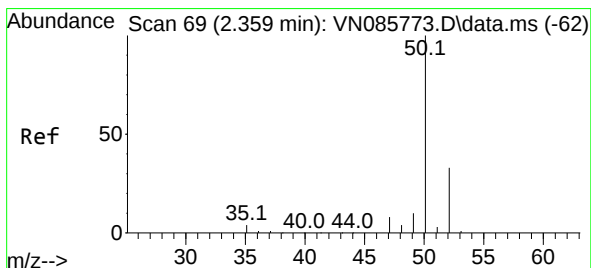
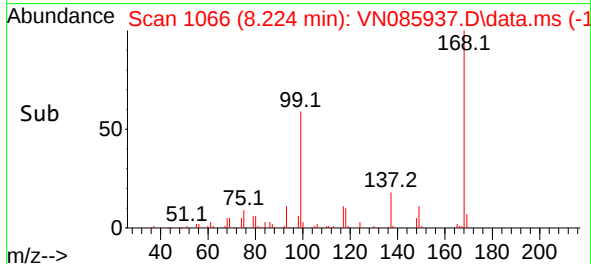
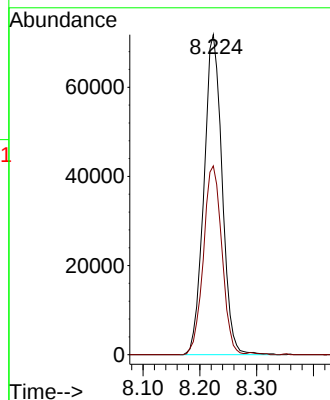
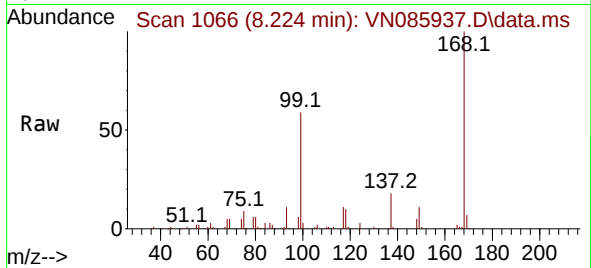




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

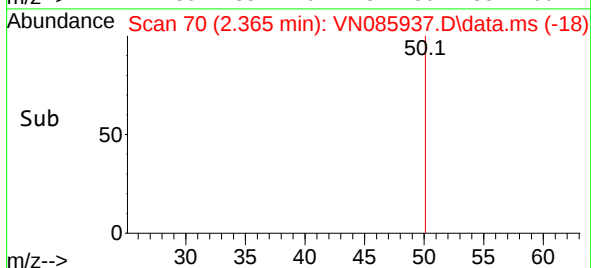
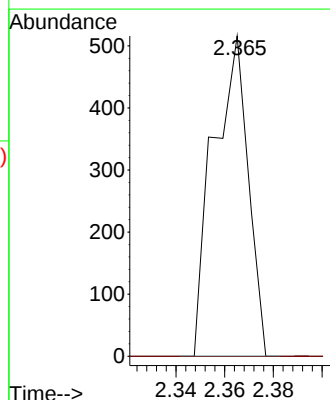
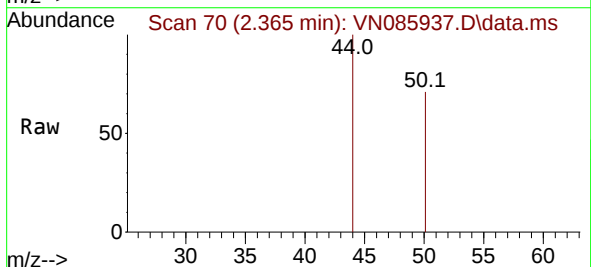
Instrument :  
MSVOA\_N  
ClientSampleId :

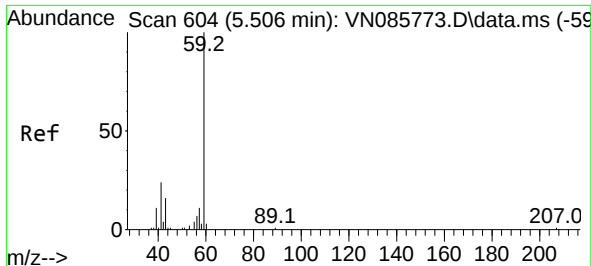
Tgt Ion:168 Resp: 159267  
Ion Ratio Lower Upper  
168 100  
99 59.0 47.9 71.9



#3  
Chloromethane  
Concen: 0.236 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

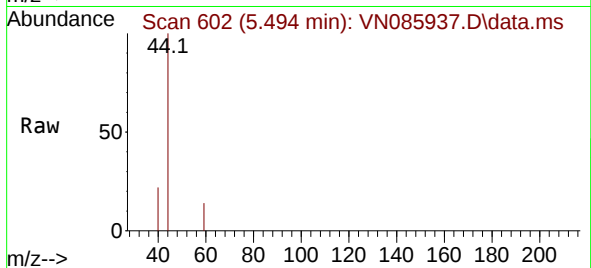
Tgt Ion: 50 Resp: 512  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.7 40.1#



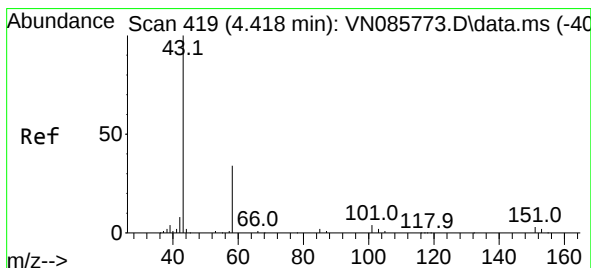
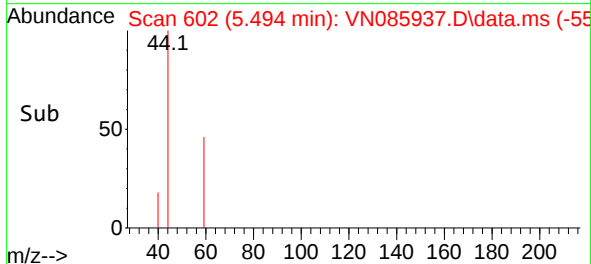
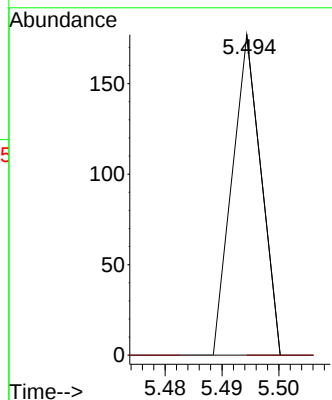


#11  
Tert butyl alcohol  
Concen: 0.244 ug/l  
RT: 5.494 min Scan# 604  
Delta R.T. -0.012 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

Instrument :  
MSVOA\_N  
ClientSampleId :

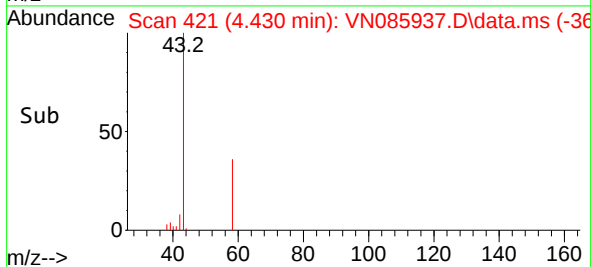
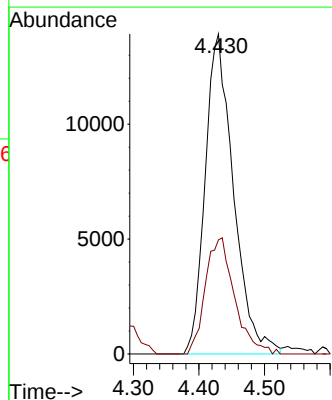
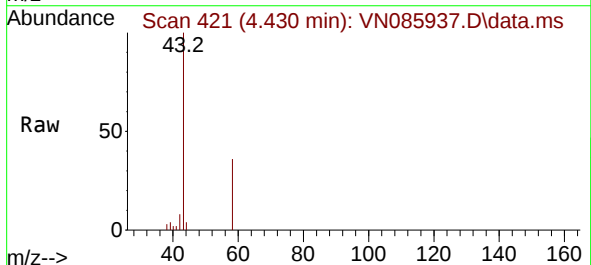


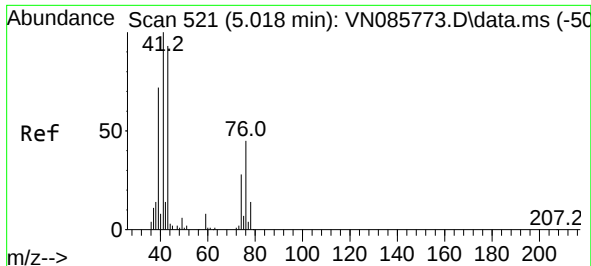
Tgt Ion: 59 Resp: 62  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#16  
Acetone  
Concen: 63.955 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. 0.012 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

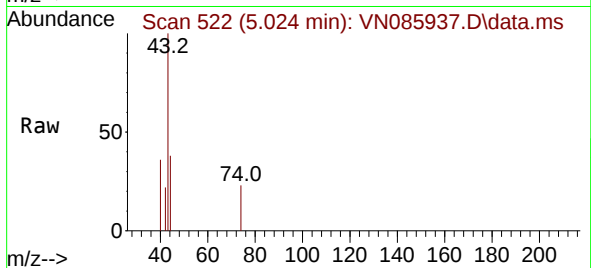
Tgt Ion: 43 Resp: 41785  
Ion Ratio Lower Upper  
43 100  
58 35.7 27.5 41.3



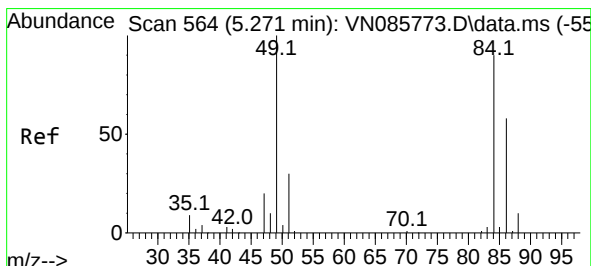
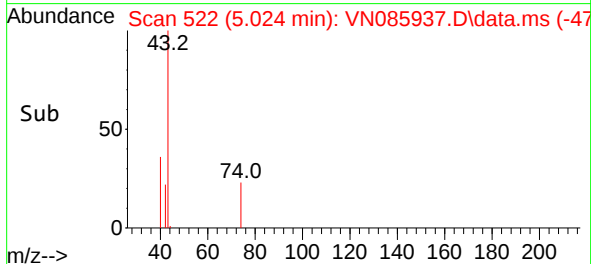
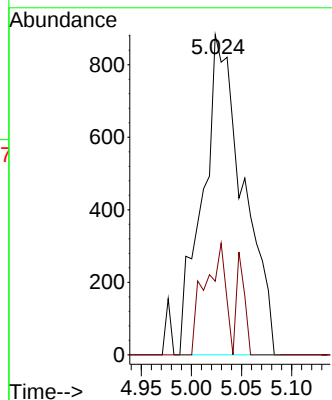


#18  
Methyl Acetate  
Concen: 1.105 ug/l  
RT: 5.024 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

Instrument :  
MSVOA\_N  
ClientSampleId :

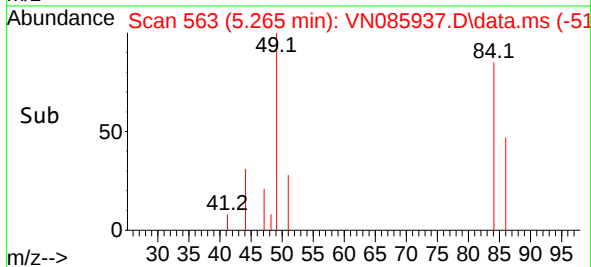
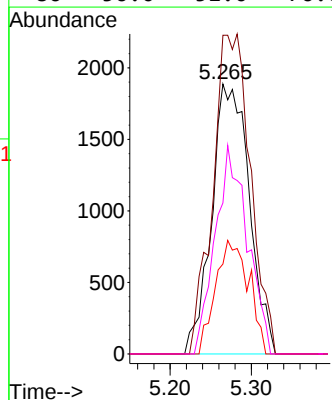
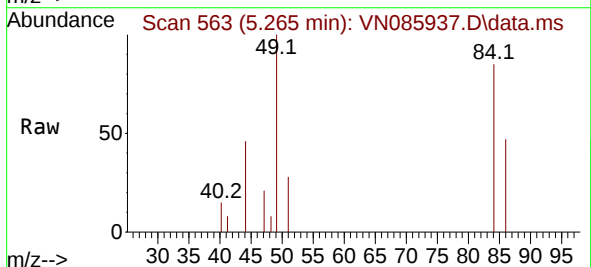


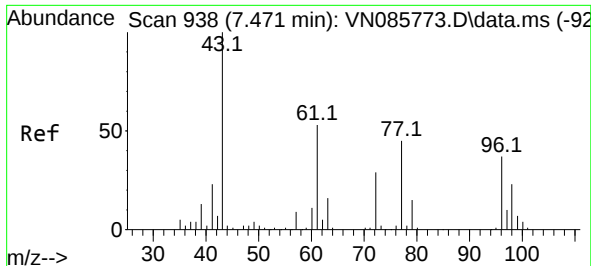
Tgt Ion: 43 Resp: 2483  
Ion Ratio Lower Upper  
43 100  
74 18.0 22.2 33.4#



#20  
Methylene Chloride  
Concen: 2.878 ug/l  
RT: 5.265 min Scan# 563  
Delta R.T. -0.006 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

Tgt Ion: 84 Resp: 6047  
Ion Ratio Lower Upper  
84 100  
49 118.1 88.4 132.6  
51 33.3 26.6 40.0  
86 56.0 51.0 76.6





#25

2-Butanone

Concen: 4.208 ug/l

RT: 7.482 min Scan# 94

Delta R.T. 0.012 min

Lab File: VN085937.D

Acq: 11 Mar 2025 17:28

Instrument :

MSVOA\_N

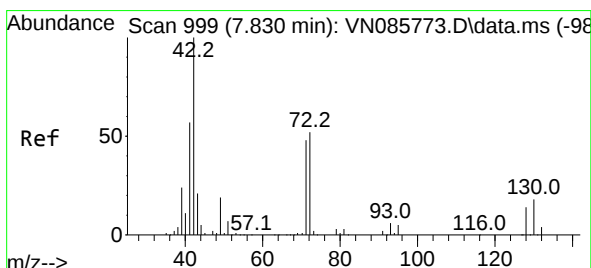
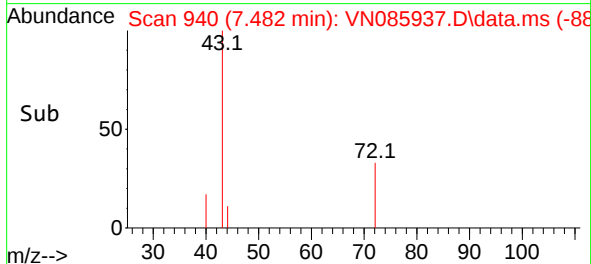
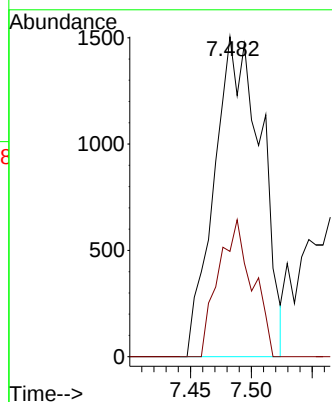
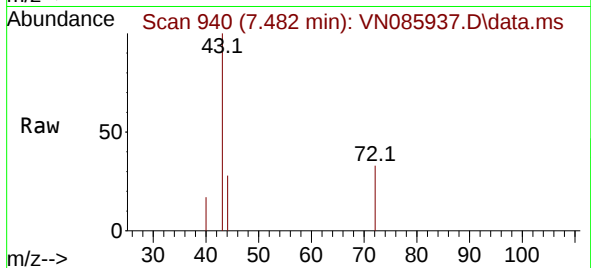
ClientSampleId :

Tgt Ion: 43 Resp: 4045

Ion Ratio Lower Upper

43 100

72 32.9 23.6 35.4



#29

Tetrahydrofuran

Concen: 0.335 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.018 min

Lab File: VN085937.D

Acq: 11 Mar 2025 17:28

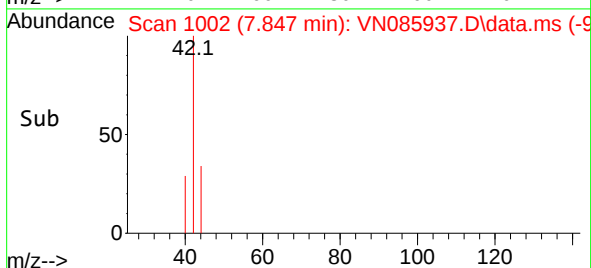
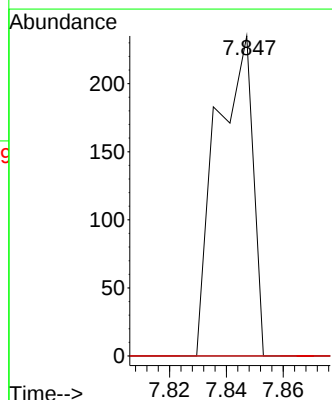
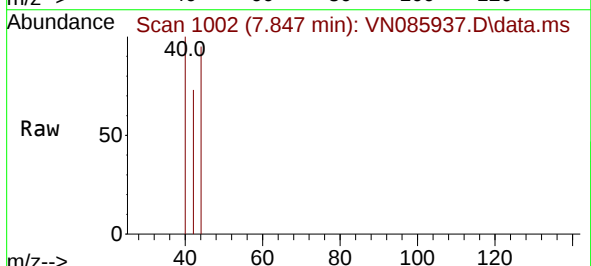
Tgt Ion: 42 Resp: 208

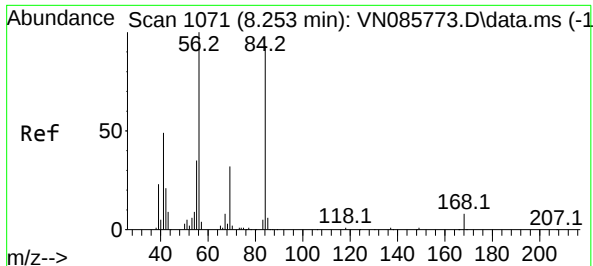
Ion Ratio Lower Upper

42 100

72 0.0 40.0 60.0#

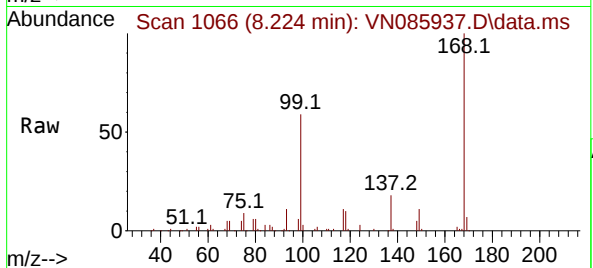
71 0.0 37.0 55.4#



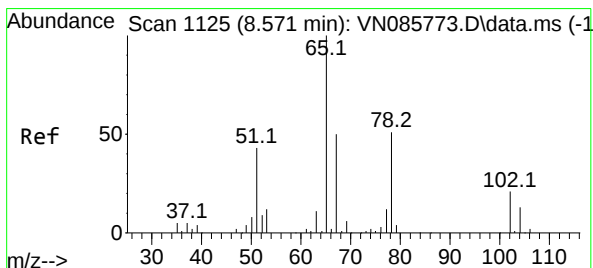
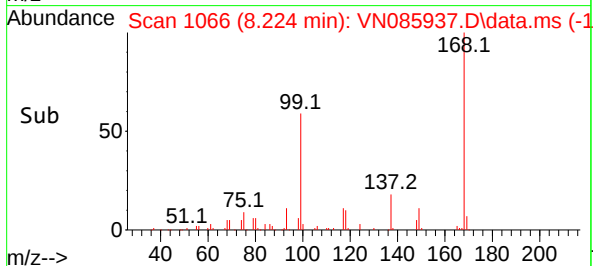
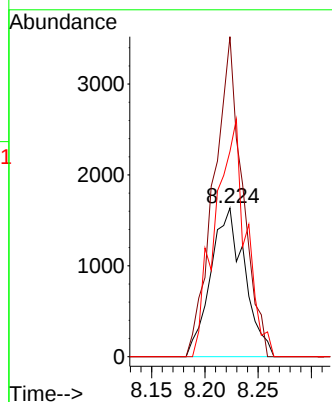


#31  
Cyclohexane  
Concen: 1.225 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.030 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

Instrument :  
MSVOA\_N  
ClientSampleId :

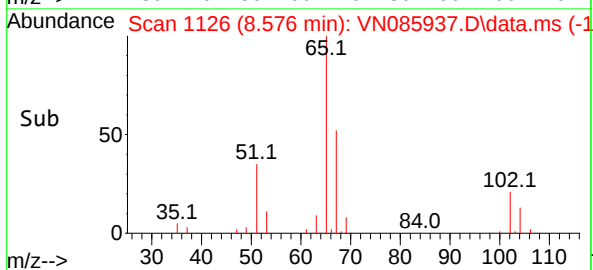
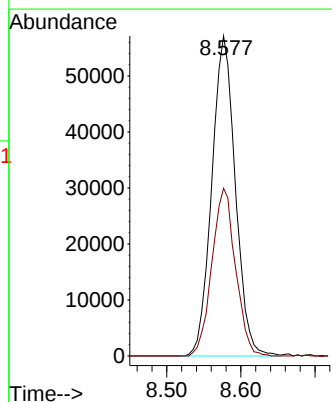
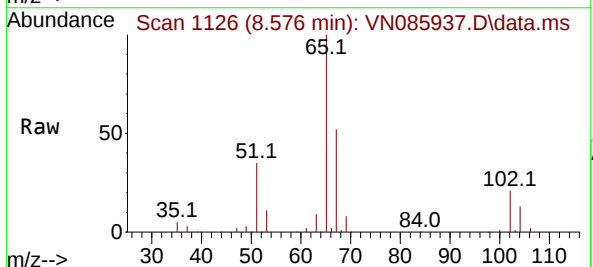


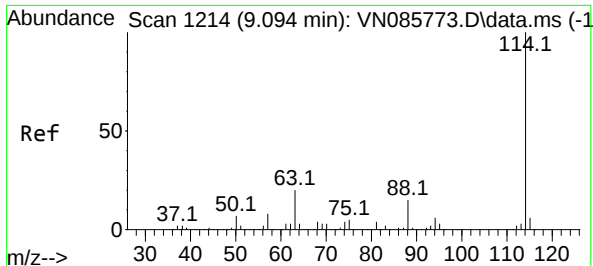
Tgt Ion: 56 Resp: 3612  
Ion Ratio Lower Upper  
56 100  
69 215.3 25.8 38.6#  
84 138.1 74.5 111.7#



#33  
1,2-Dichloroethane-d4  
Concen: 61.062 ug/l  
RT: 8.576 min Scan# 1126  
Delta R.T. 0.006 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

Tgt Ion: 65 Resp: 126084  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085937.D

Acq: 11 Mar 2025 17:28

Instrument :

MSVOA\_N

ClientSampleId :

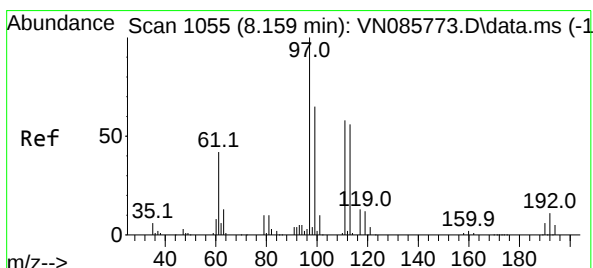
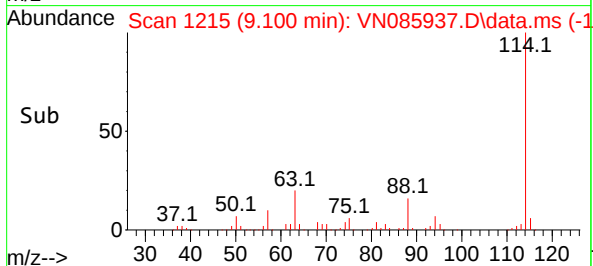
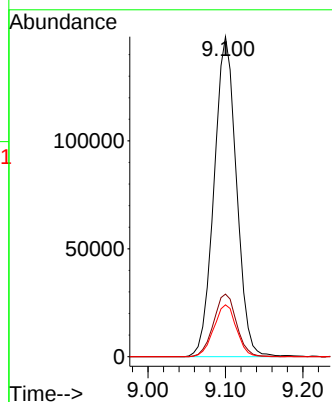
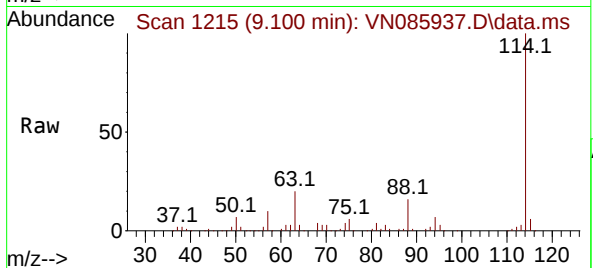
Tgt Ion:114 Resp: 297554

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.2

88 16.2 0.0 30.0



#35

Dibromofluoromethane

Concen: 54.753 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085937.D

Acq: 11 Mar 2025 17:28

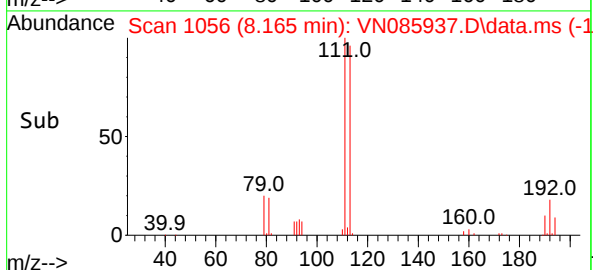
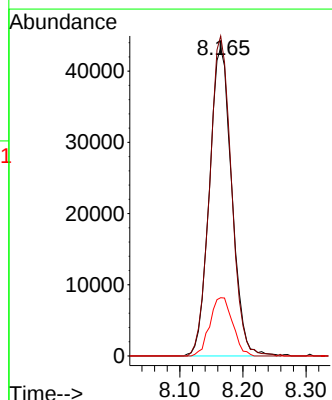
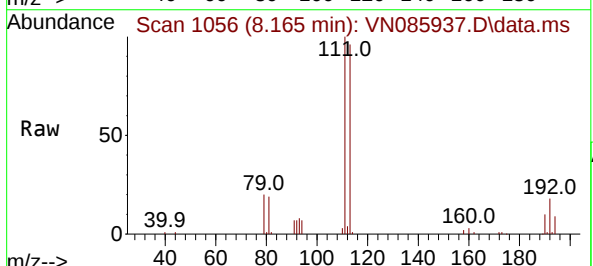
Tgt Ion:113 Resp: 106607

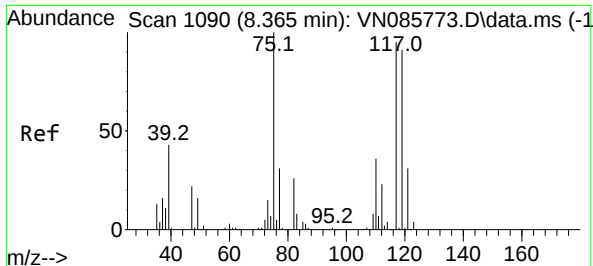
Ion Ratio Lower Upper

113 100

111 101.0 82.2 123.4

192 19.2 14.7 22.1





#36

1,1-Dichloropropene

Concen: 4.831 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN085937.D

Acq: 11 Mar 2025 17:28

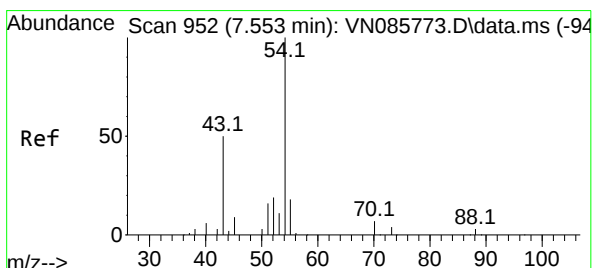
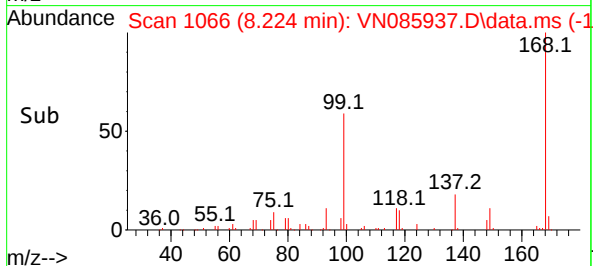
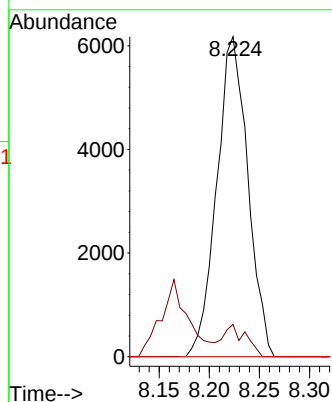
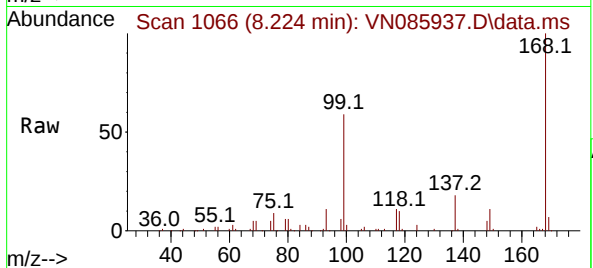
Instrument :

MSVOA\_N

ClientSampleId :

Tgt Ion: 75 Resp: 13313

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 7.2   | 17.3  | 52.0# |
| 77  | 0.0   | 24.6  | 37.0# |



#37

Ethyl Acetate

Concen: 0.700 ug/l

RT: 7.571 min Scan# 955

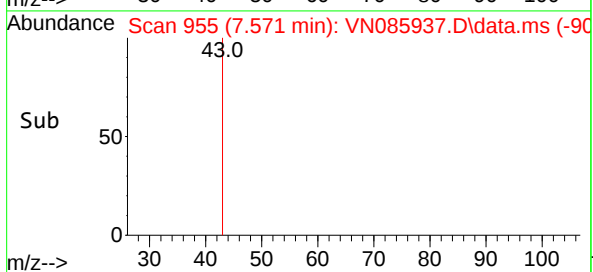
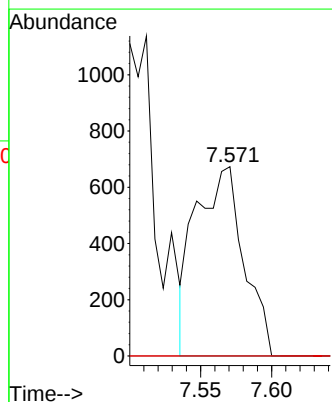
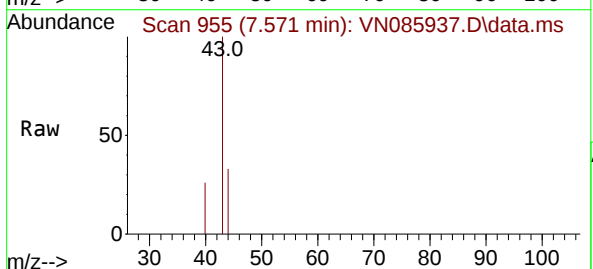
Delta R.T. 0.018 min

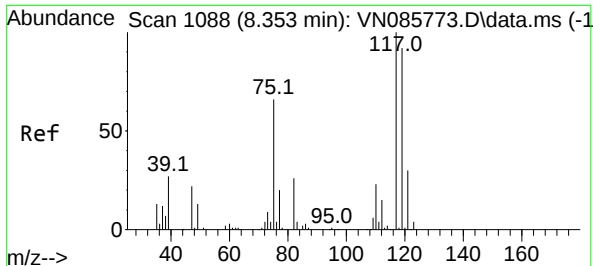
Lab File: VN085937.D

Acq: 11 Mar 2025 17:28

Tgt Ion: 43 Resp: 1587

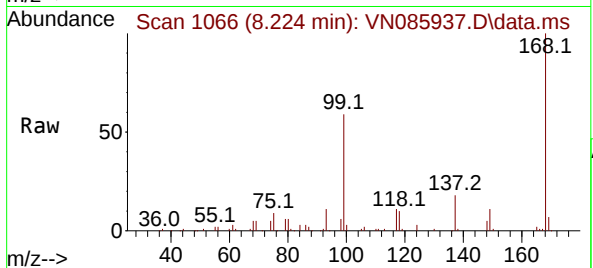
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 61  | 0.0   | 12.2  | 18.2# |
| 70  | 0.0   | 9.5   | 14.3# |



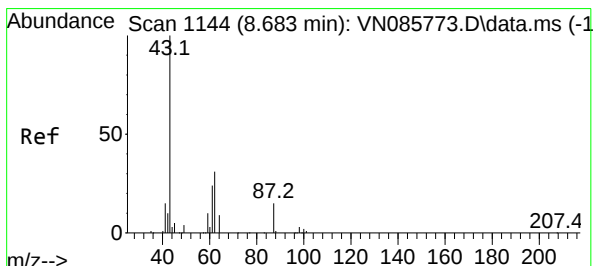
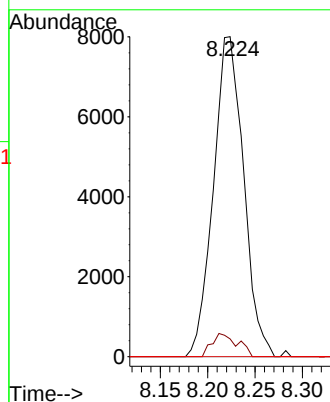
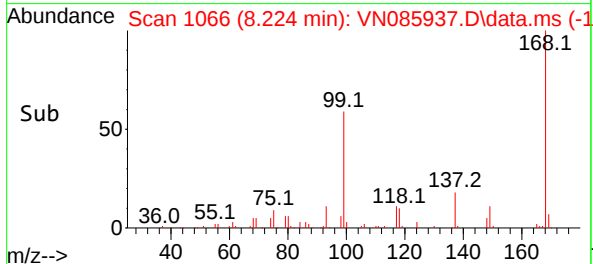


#38  
Carbon Tetrachloride  
Concen: 5.426 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.130 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

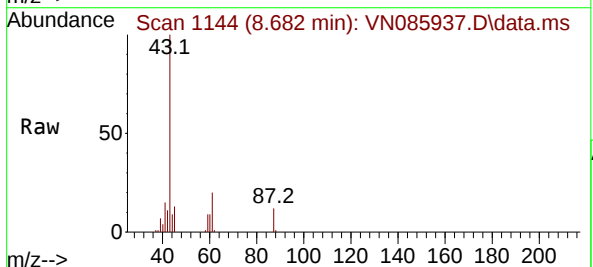
Instrument :  
MSVOA\_N  
ClientSampleId :



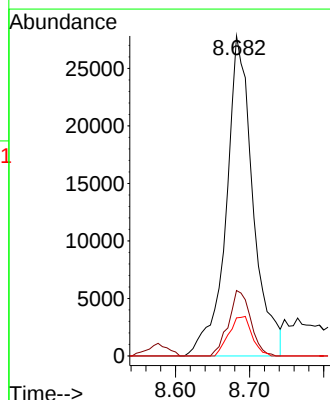
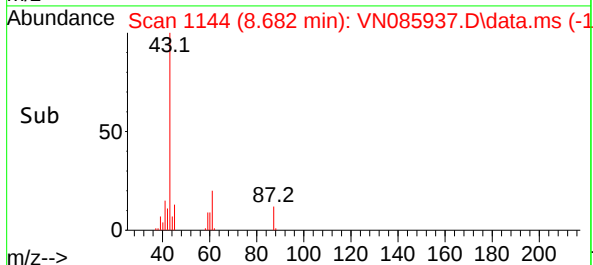
Tgt Ion:117 Resp: 17765  
Ion Ratio Lower Upper  
117 100  
119 5.5 73.8 110.6#  
121 0.0 24.3 36.5#

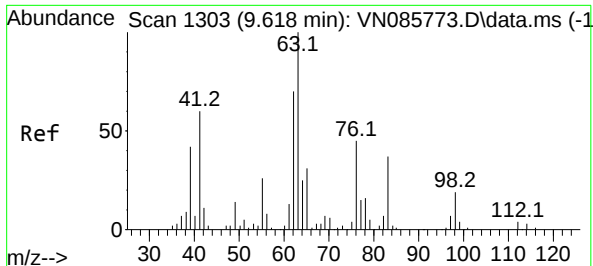


#43  
Isopropyl Acetate  
Concen: 17.242 ug/l  
RT: 8.682 min Scan# 1144  
Delta R.T. -0.001 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28



Tgt Ion: 43 Resp: 70043  
Ion Ratio Lower Upper  
43 100  
61 16.8 22.6 34.0#  
87 10.6 11.8 17.8#





#45

1,2-Dichloropropane

Concen: 0.506 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN085937.D

Acq: 11 Mar 2025 17:28

Instrument :

MSVOA\_N

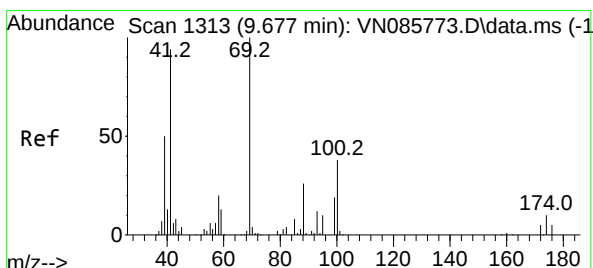
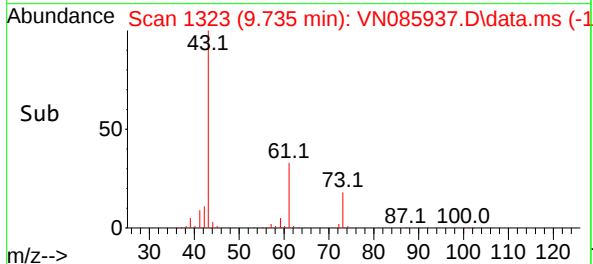
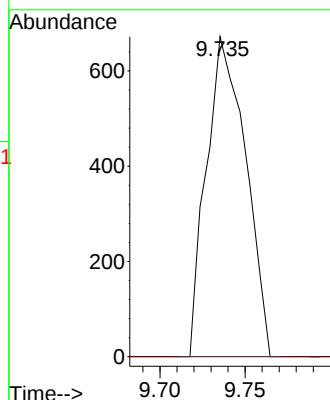
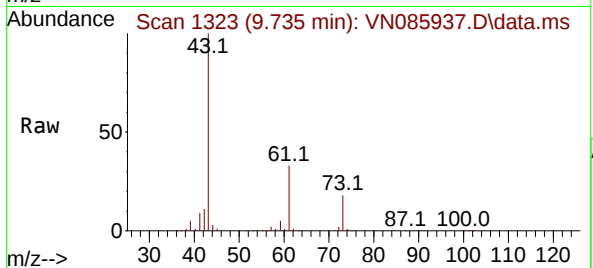
ClientSampleId :

Tgt Ion: 63 Resp: 1078

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#



#48

Methyl methacrylate

Concen: 42.797 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN085937.D

Acq: 11 Mar 2025 17:28

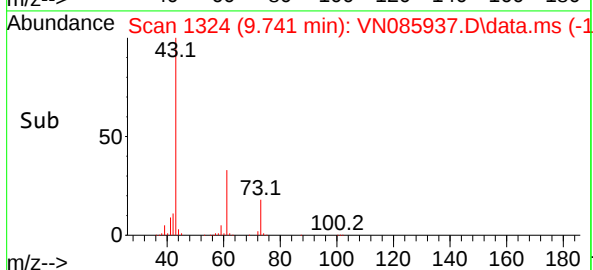
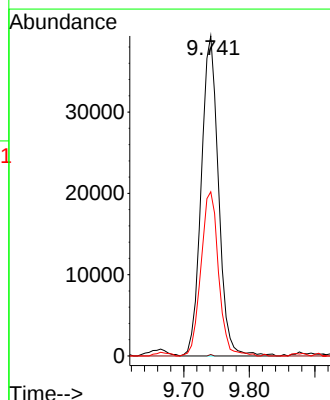
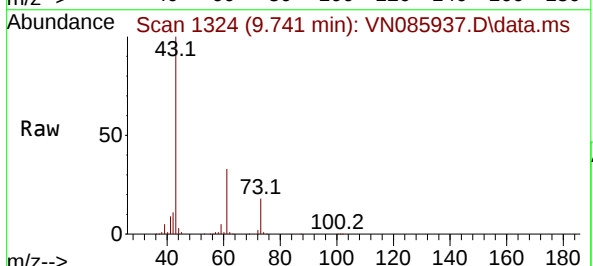
Tgt Ion: 41 Resp: 72076

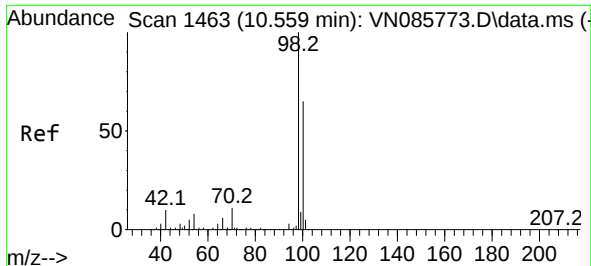
Ion Ratio Lower Upper

41 100

69 0.1 76.0 114.0#

39 52.3 42.3 63.5

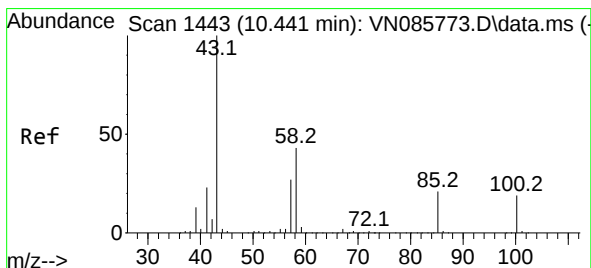
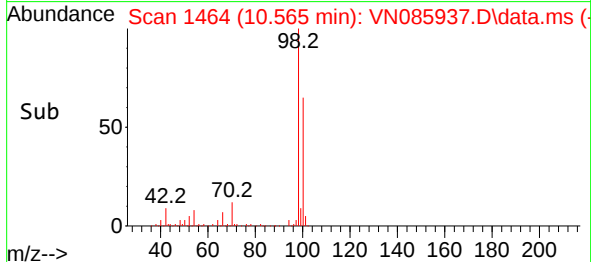
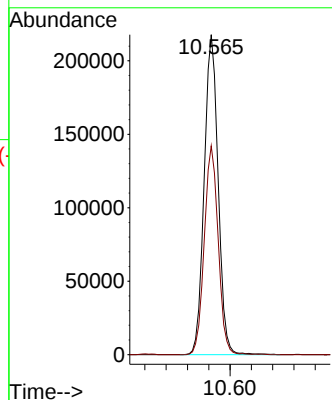
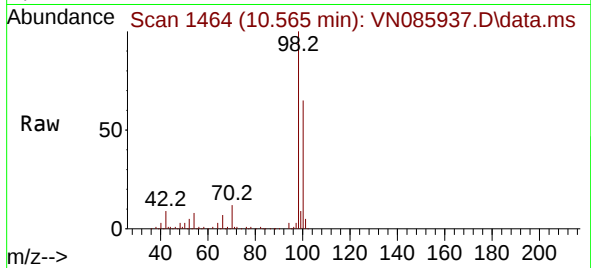




#50  
Toluene-d8  
Concen: 55.903 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.006 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

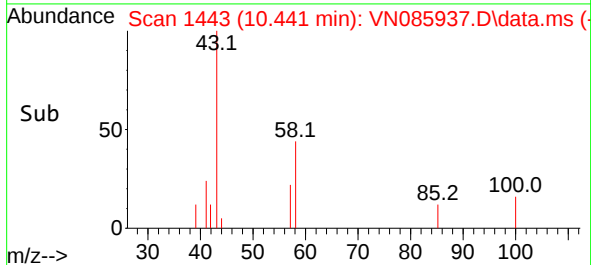
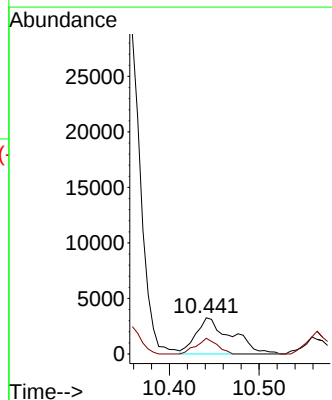
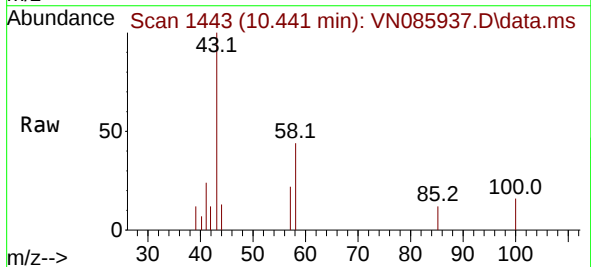
Instrument :  
MSVOA\_N  
ClientSampleId :

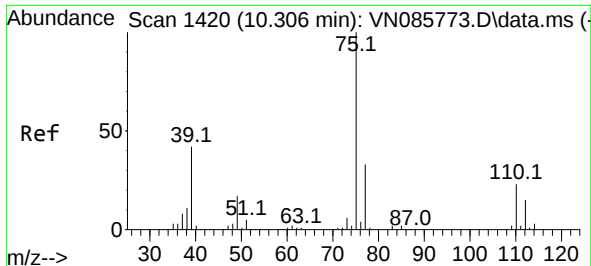
Tgt Ion: 98 Resp: 396017  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.1 78.1



#51  
4-Methyl-2-Pentanone  
Concen: 4.070 ug/l  
RT: 10.441 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

Tgt Ion: 43 Resp: 8899  
Ion Ratio Lower Upper  
43 100  
58 25.7 34.6 52.0#

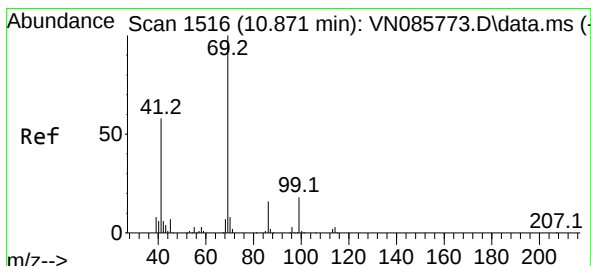
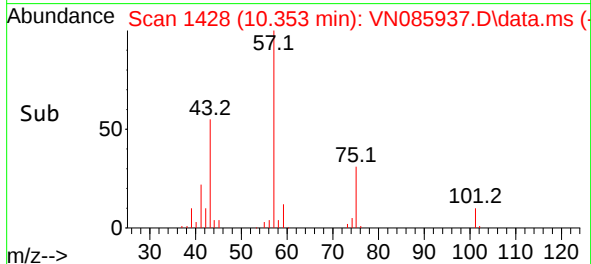
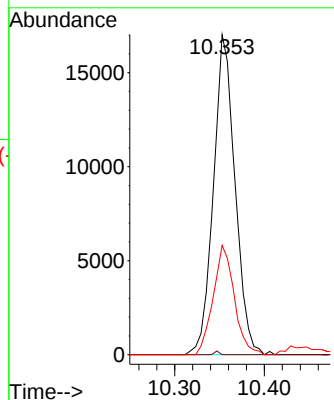
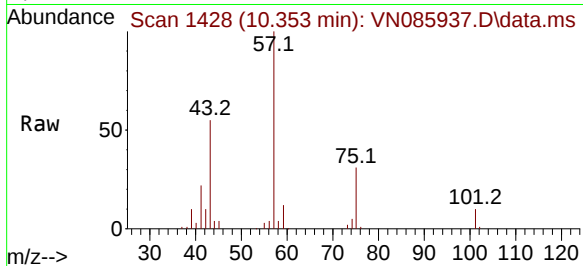




#54  
 cis-1,3-Dichloropropene  
 Concen: 8.710 ug/l  
 RT: 10.353 min Scan# 1428  
 Delta R.T. 0.047 min  
 Lab File: VN085937.D  
 Acq: 11 Mar 2025 17:28

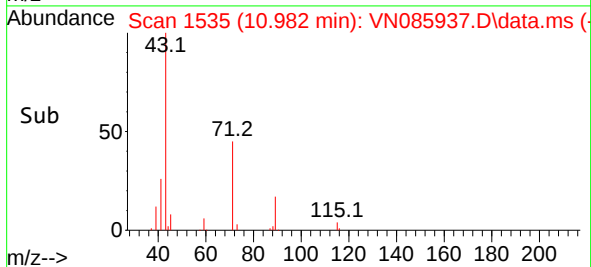
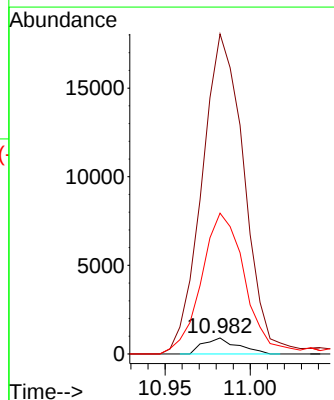
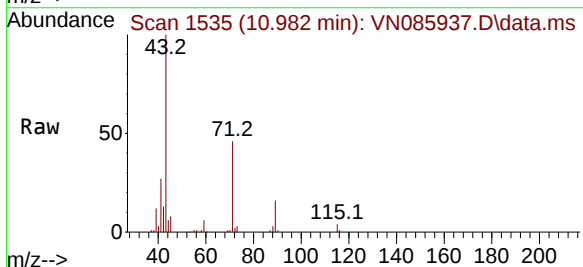
Instrument :  
 MSVOA\_N  
 ClientSampleId :

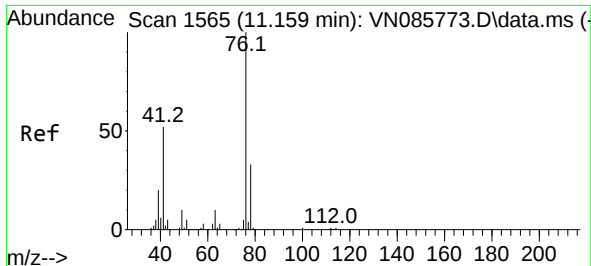
Tgt Ion: 75 Resp: 28414  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 26.1 39.1#  
 39 34.2 33.4 50.0



#56  
 Ethyl methacrylate  
 Concen: 0.938 ug/l  
 RT: 10.982 min Scan# 1535  
 Delta R.T. 0.111 min  
 Lab File: VN085937.D  
 Acq: 11 Mar 2025 17:28

Tgt Ion: 69 Resp: 1270  
 Ion Ratio Lower Upper  
 69 100  
 41 2457.5 46.0 69.0#  
 39 1112.0 22.0 33.0#





#57

1,3-Dichloropropane

Concen: 1.056 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN085937.D

Acq: 11 Mar 2025 17:28

Instrument :

MSVOA\_N

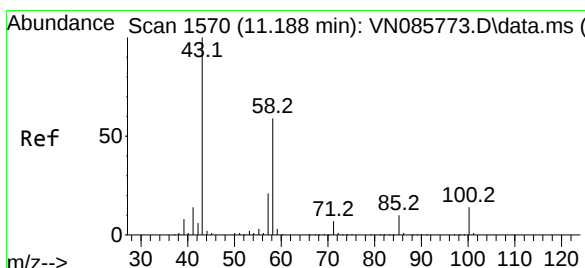
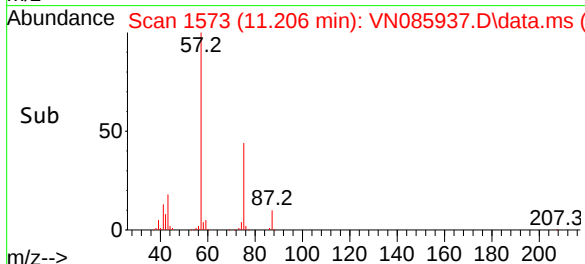
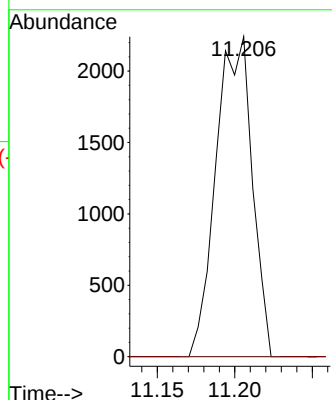
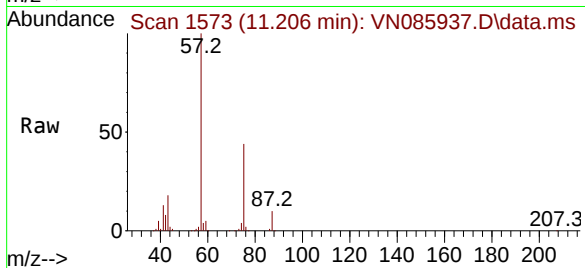
ClientSampleId :

Tgt Ion: 76 Resp: 3628

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 30.262 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085937.D

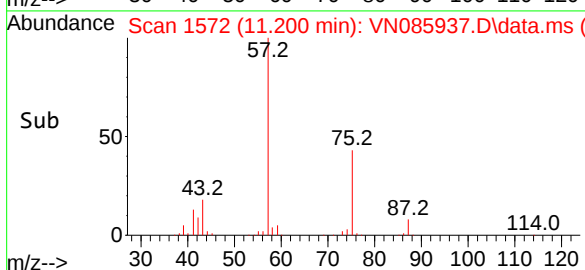
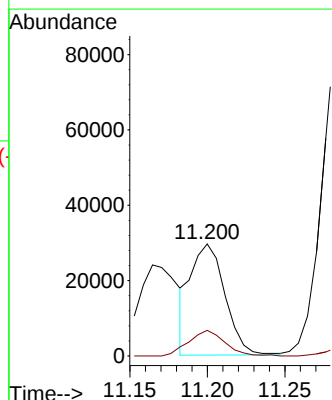
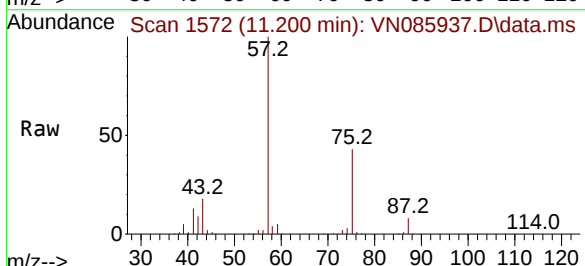
Acq: 11 Mar 2025 17:28

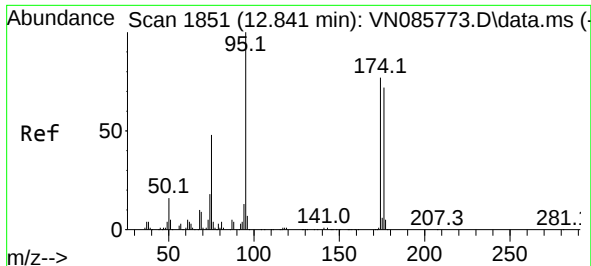
Tgt Ion: 43 Resp: 45517

Ion Ratio Lower Upper

43 100

58 24.4 29.8 89.5#

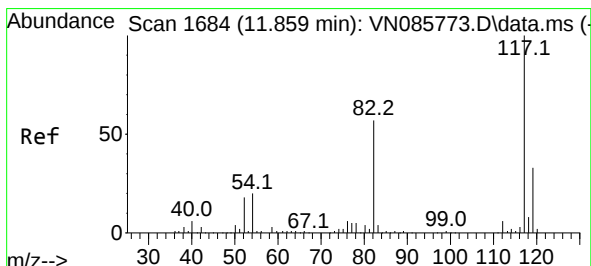
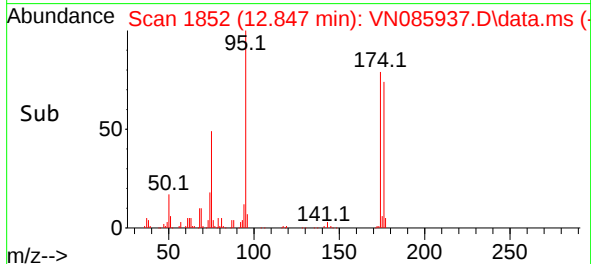
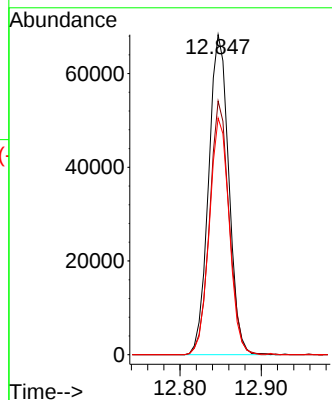
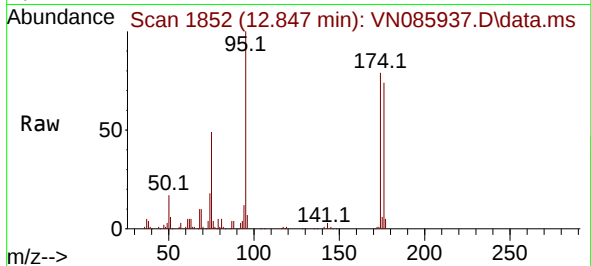




#62  
4-Bromofluorobenzene  
Concen: 50.418 ug/l  
RT: 12.847 min Scan# 1851  
Delta R.T. 0.006 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

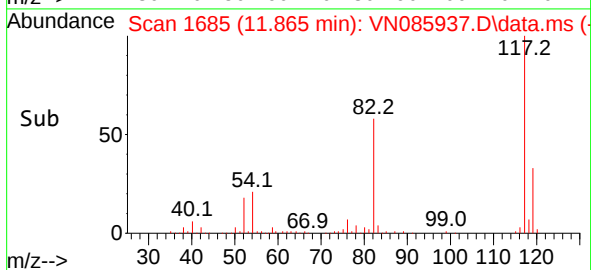
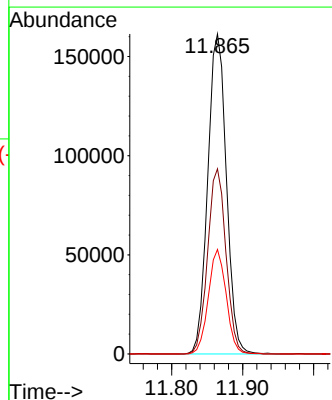
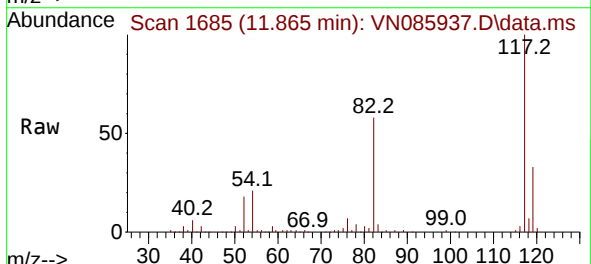
Instrument :  
MSVOA\_N  
ClientSampleId :

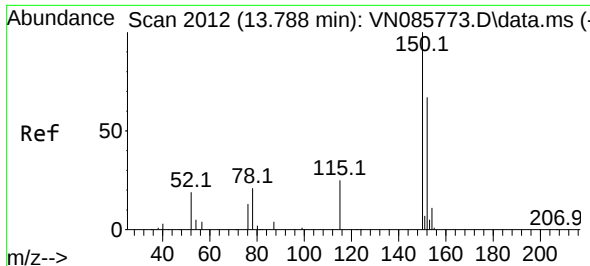
Tgt Ion: 95 Resp: 117676  
Ion Ratio Lower Upper  
95 100  
174 77.0 0.0 152.4  
176 73.0 0.0 146.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.006 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

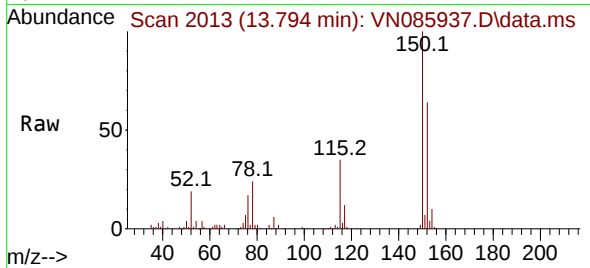
Tgt Ion: 117 Resp: 294332  
Ion Ratio Lower Upper  
117 100  
82 57.9 45.7 68.5  
119 32.6 26.2 39.2



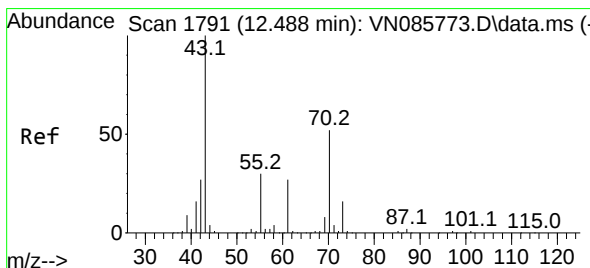
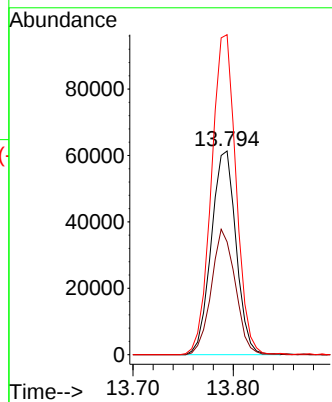
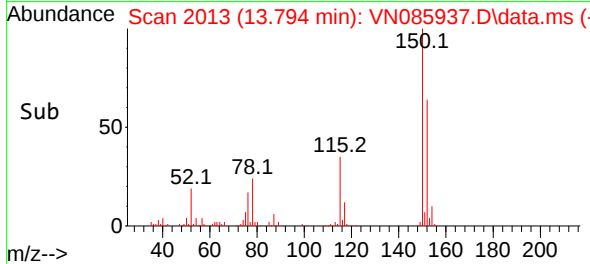


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 20  
 Delta R.T. 0.006 min  
 Lab File: VN085937.D  
 Acq: 11 Mar 2025 17:28

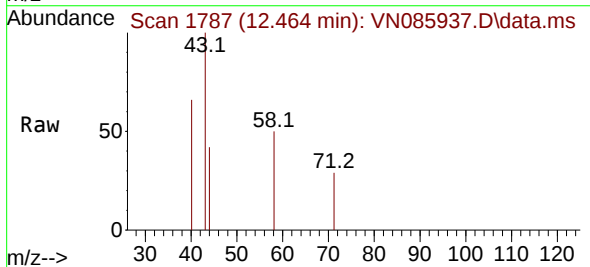
Instrument :  
 MSVOA\_N  
 ClientSampleId :



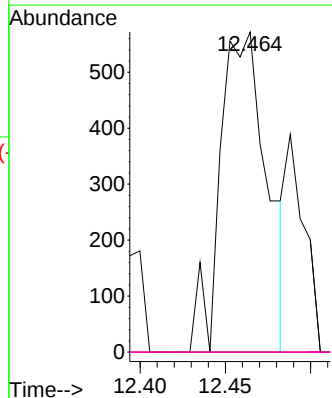
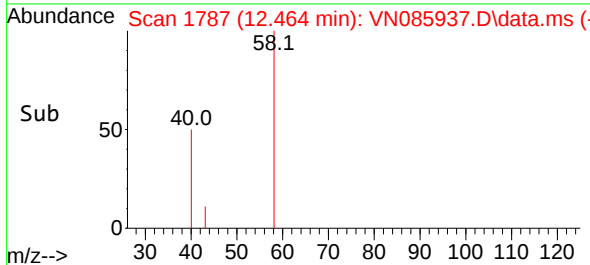
Tgt Ion:152 Resp: 105392  
 Ion Ratio Lower Upper  
 152 100  
 115 59.5 30.4 91.3  
 150 156.3 0.0 345.4

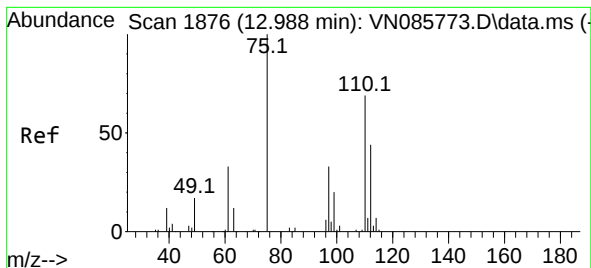


#74  
 N-ethyl acetate  
 Concen: 0.428 ug/l  
 RT: 12.464 min Scan# 1787  
 Delta R.T. -0.024 min  
 Lab File: VN085937.D  
 Acq: 11 Mar 2025 17:28



Tgt Ion: 43 Resp: 1090  
 Ion Ratio Lower Upper  
 43 100  
 70 0.0 41.0 61.4#  
 55 0.0 24.6 36.8#  
 61 0.0 21.6 32.4#

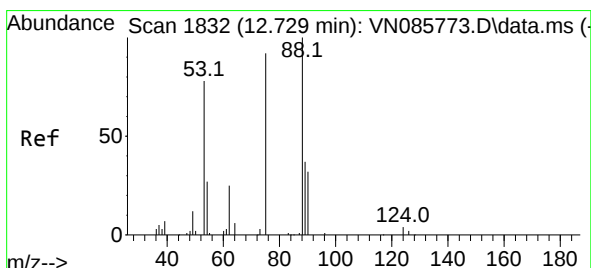
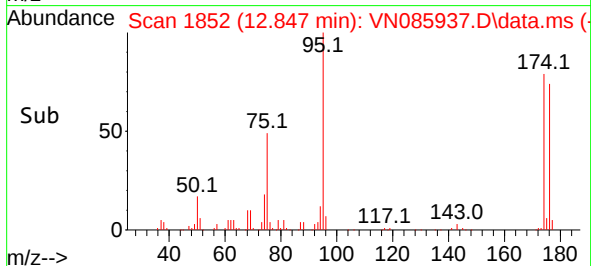
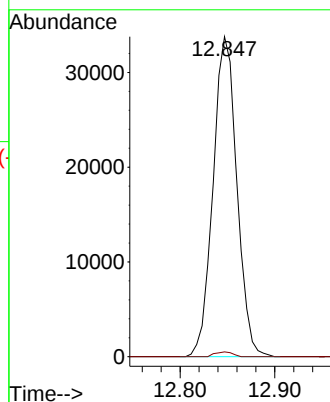
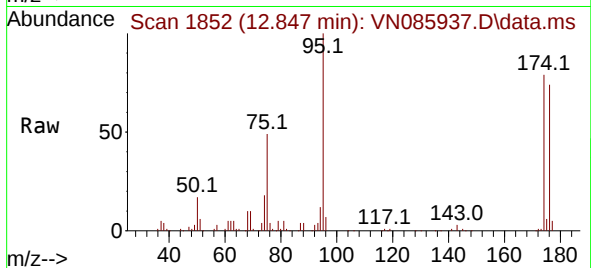




#76  
1,2,3-Trichloropropane  
Concen: 25.183 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 58956  
Ion Ratio Lower Upper  
75 100  
77 1.1 100.0 300.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.478 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.117 min  
Lab File: VN085937.D  
Acq: 11 Mar 2025 17:28

Tgt Ion: 75 Resp: 58956  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.2 111.4#  
89 0.0 34.9 52.3#

