

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042825\  
 Data File : VN086410.D  
 Acq On : 28 Apr 2025 14:45  
 Operator : JC\MD  
 Sample : PB167744ZHE#07  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB167744ZHE#07

Quant Time: Apr 29 01:53:42 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 16 04:19:23 2025  
 Response via : Initial Calibration

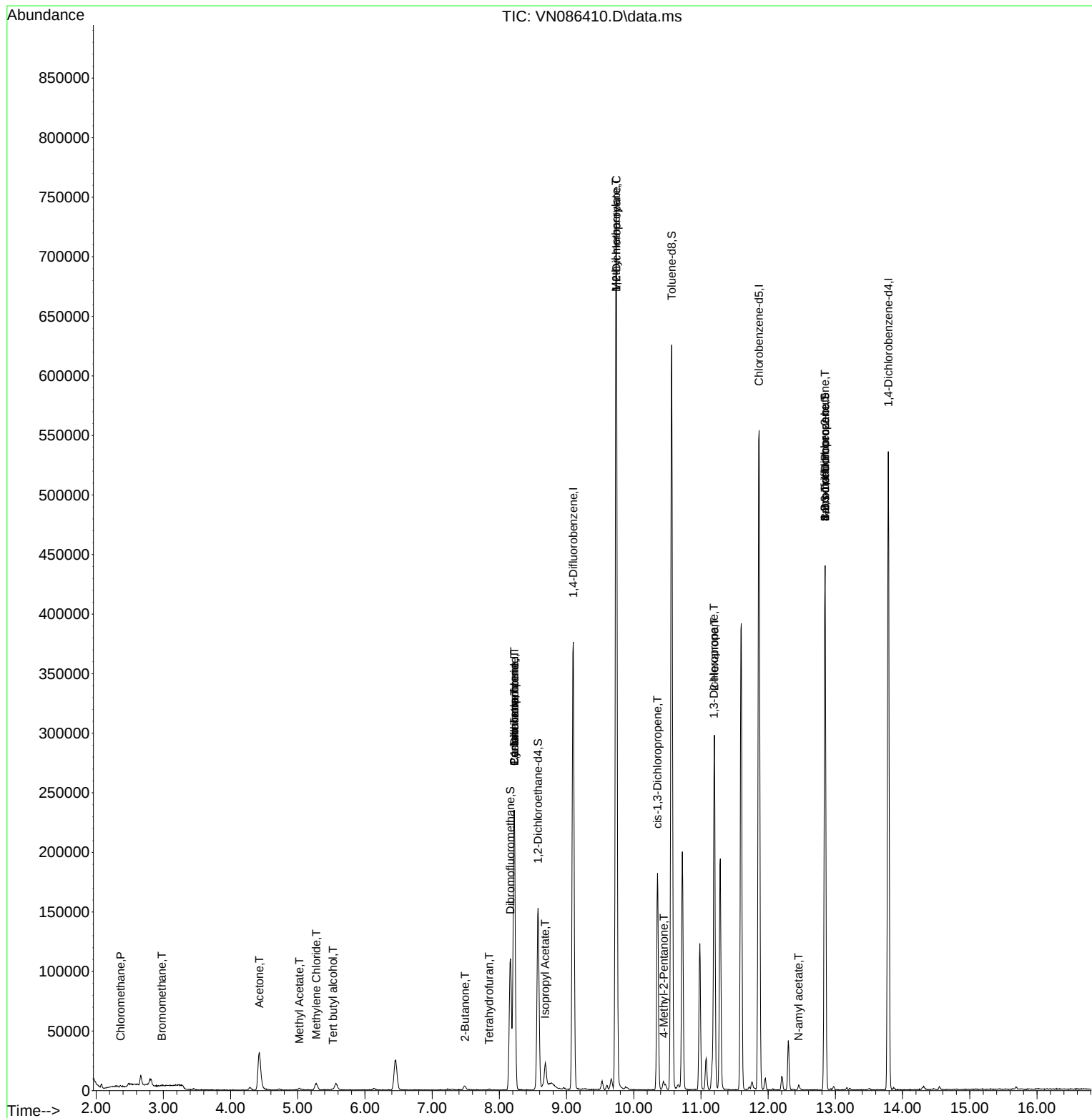
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 173616   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 337344   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 325417   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 141094   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.576  | 65    | 126074   | 50.077   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 100.160% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 83365    | 53.246   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 106.500% |          |
| 50) Toluene-d8                | 10.565 | 98    | 430762   | 51.480   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 102.960% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 159184   | 52.157   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 104.320% |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 3) Chloromethane              | 2.365  | 50    | 866      | 0.290    | ug/l       | 93       |
| 5) Bromomethane               | 2.977  | 94    | 270      | 0.210    | ug/l       | 89       |
| 11) Tert butyl alcohol        | 5.524  | 59    | 1107     | 2.410    | ug/l #     | 72       |
| 16) Acetone                   | 4.430  | 43    | 62611    | 67.771   | ug/l       | 96       |
| 18) Methyl Acetate            | 5.024  | 43    | 3014     | 0.997    | ug/l #     | 75       |
| 20) Methylene Chloride        | 5.277  | 84    | 4319     | 1.856    | ug/l       | 96       |
| 25) 2-Butanone                | 7.488  | 43    | 6423     | 4.099    | ug/l       | 92       |
| 29) Tetrahydrofuran           | 7.847  | 42    | 531      | 0.507    | ug/l #     | 40       |
| 31) Cyclohexane               | 8.224  | 56    | 4041     | 0.990    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 15110    | 4.832    | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 18041    | 6.058    | ug/l #     | 16       |
| 43) Isopropyl Acetate         | 8.682  | 43    | 29770    | 3.234    | ug/l #     | 84       |
| 45) 1,2-Dichloropropane       | 9.741  | 63    | 942      | 0.384    | ug/l #     | 43       |
| 48) Methyl methacrylate       | 9.735  | 41    | 70236    | 24.293   | ug/l #     | 43       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43    | 4381     | 1.300    | ug/l       | 99       |
| 54) cis-1,3-Dichloropropene   | 10.353 | 75    | 33992    | 8.215    | ug/l #     | 58       |
| 57) 1,3-Dichloropropane       | 11.194 | 76    | 3164     | 0.793    | ug/l #     | 43       |
| 59) 2-Hexanone                | 11.200 | 43    | 59465    | 23.780   | ug/l #     | 43       |
| 71) Bromoform                 | 12.847 | 173   | 972      | 0.539    | ug/l #     | 1        |
| 74) N-amyl acetate            | 12.453 | 43    | 3326     | 0.579    | ug/l #     | 45       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 82085    | 24.653   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 82085    | 59.207   | ug/l #     | 10       |

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

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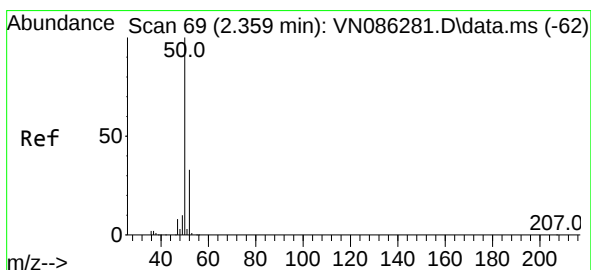
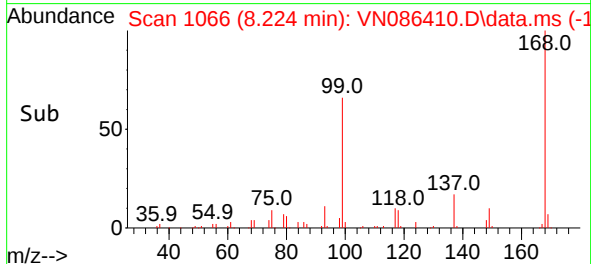
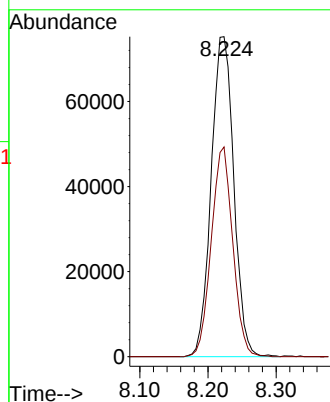
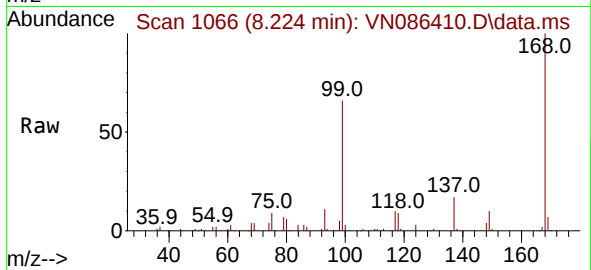




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

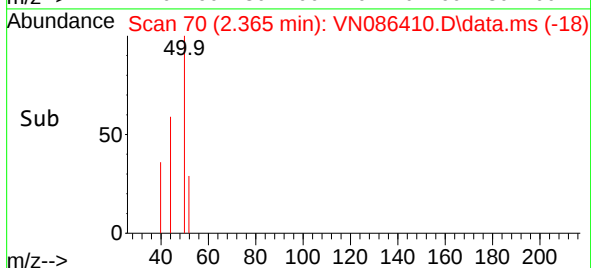
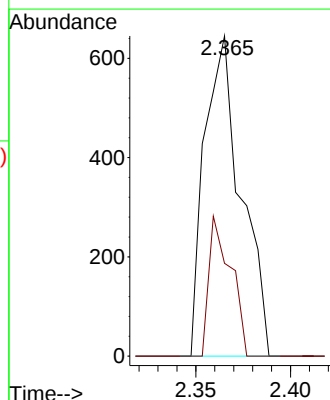
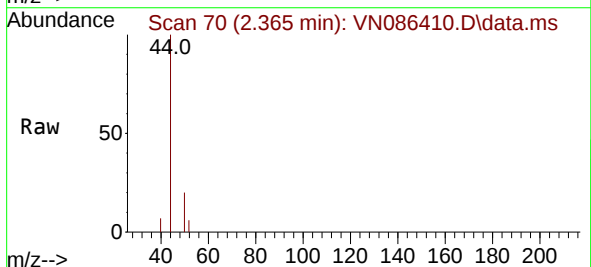
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167744ZHE#07

Tgt Ion:168 Resp: 173616  
Ion Ratio Lower Upper  
168 100  
99 65.6 52.5 78.7



#3  
Chloromethane  
Concen: 0.290 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Tgt Ion: 50 Resp: 866  
Ion Ratio Lower Upper  
50 100  
52 29.0 26.5 39.7

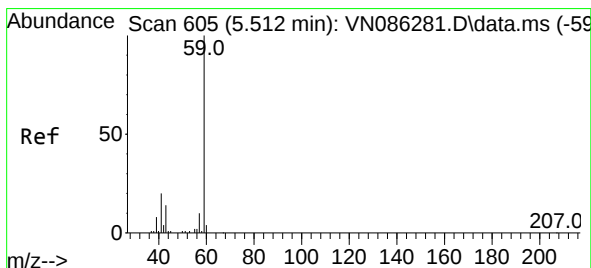
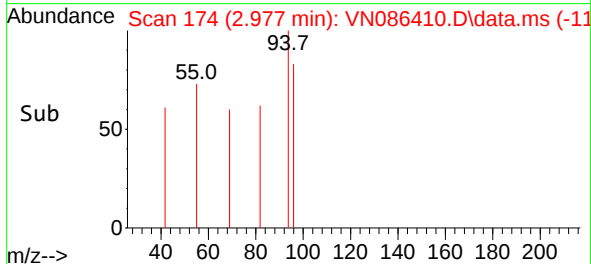
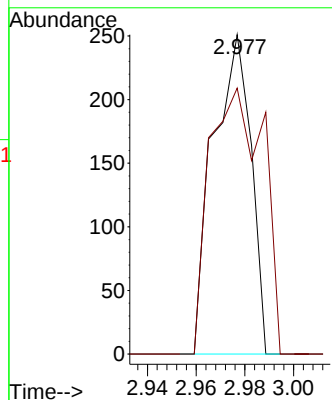
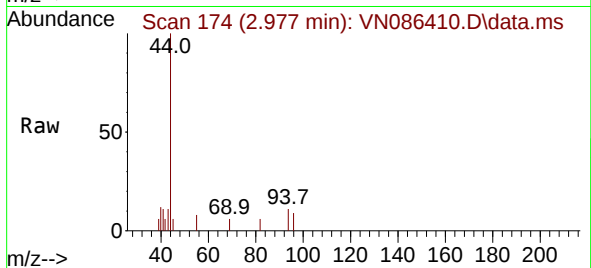




#5  
Bromomethane  
Concen: 0.210 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. 0.023 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

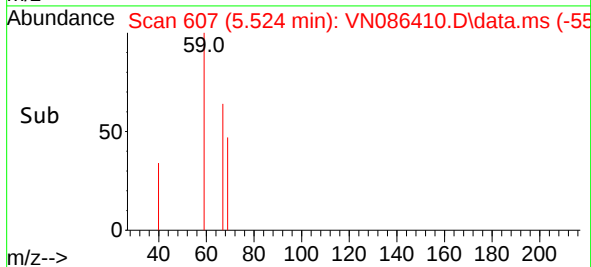
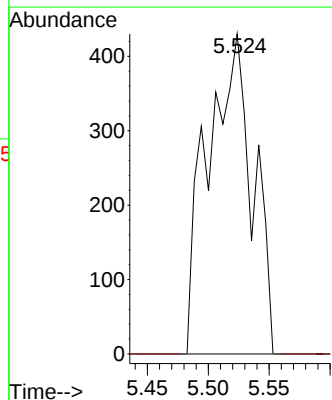
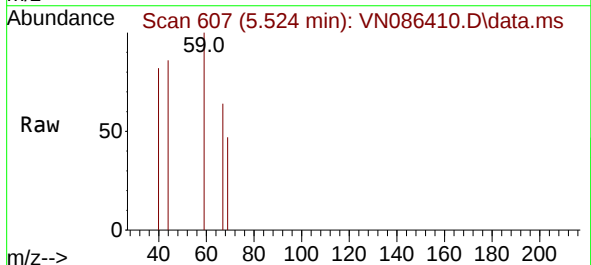
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167744ZHE#07

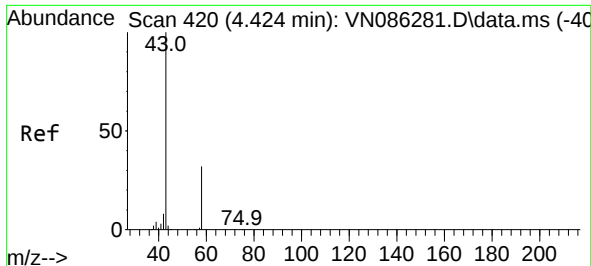
Tgt Ion: 94 Resp: 270  
Ion Ratio Lower Upper  
94 100  
96 83.3 75.2 112.8



#11  
Tert butyl alcohol  
Concen: 2.410 ug/l  
RT: 5.524 min Scan# 607  
Delta R.T. 0.012 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Tgt Ion: 59 Resp: 1107  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

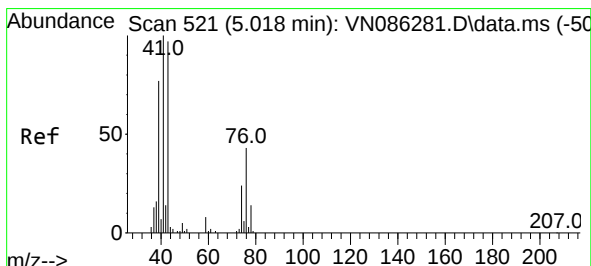
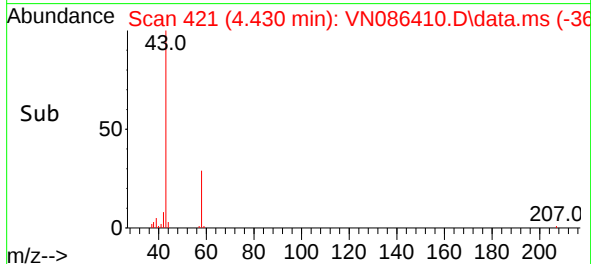
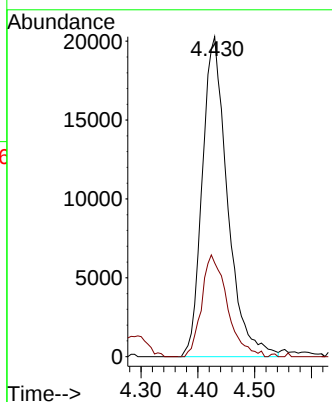
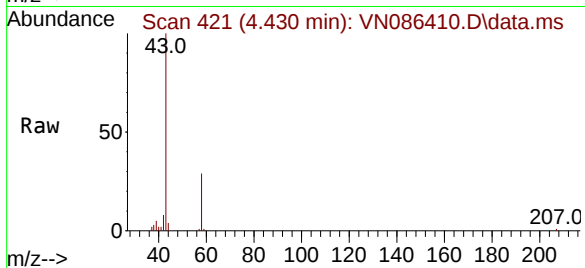




#16  
Acetone  
Concen: 67.771 ug/l  
RT: 4.430 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

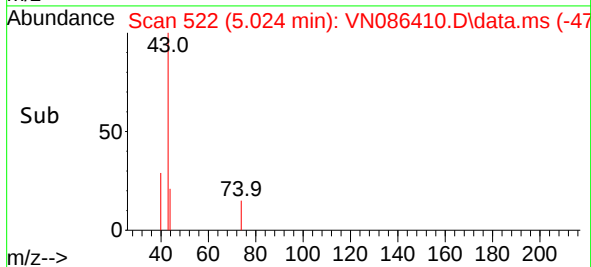
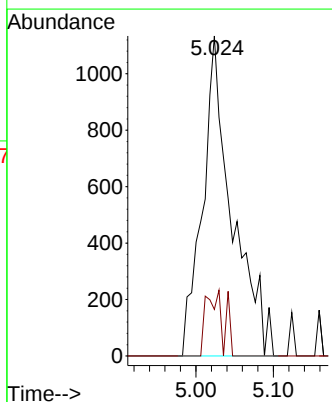
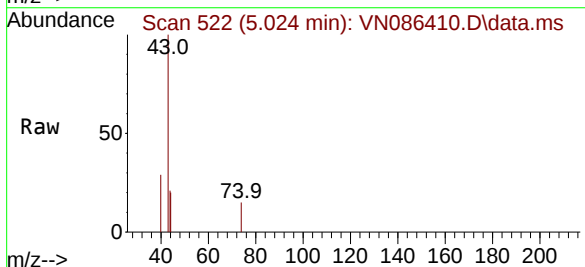
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167744ZHE#07

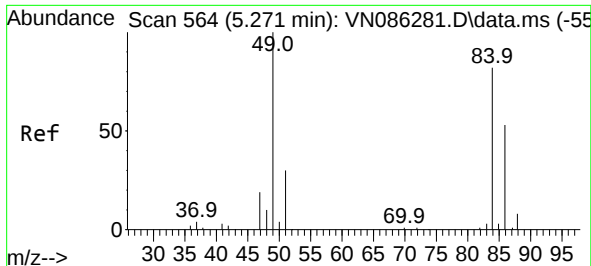
Tgt Ion: 43 Resp: 62611  
Ion Ratio Lower Upper  
43 100  
58 29.3 25.3 37.9



#18  
Methyl Acetate  
Concen: 0.997 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Tgt Ion: 43 Resp: 3014  
Ion Ratio Lower Upper  
43 100  
74 12.1 19.8 29.6#



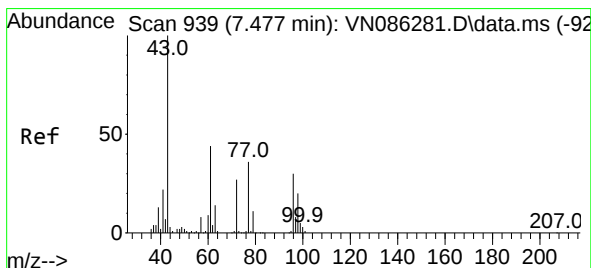
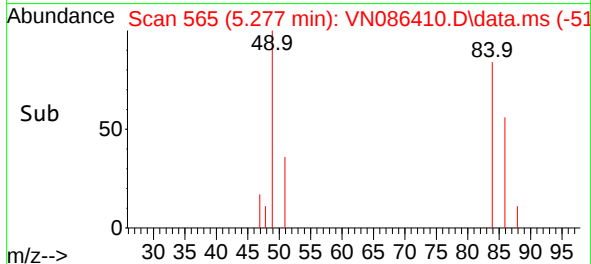
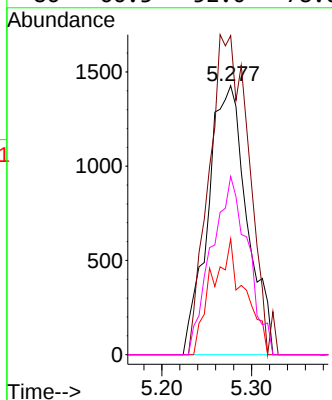
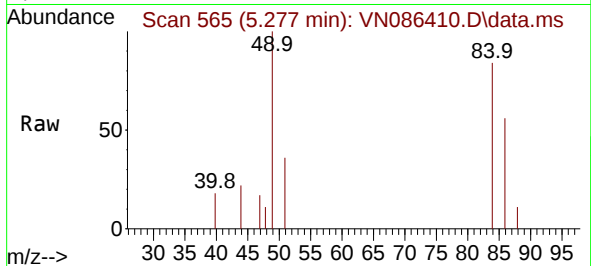


#20  
Methylene Chloride  
Concen: 1.856 ug/l  
RT: 5.277 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167744ZHE#07

Tgt Ion: 84 Resp: 4319

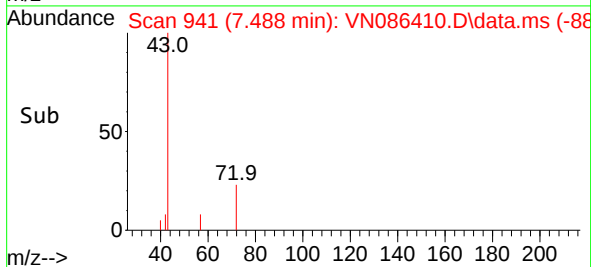
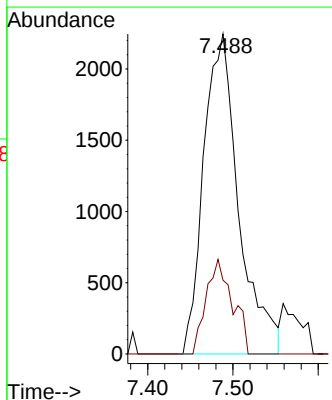
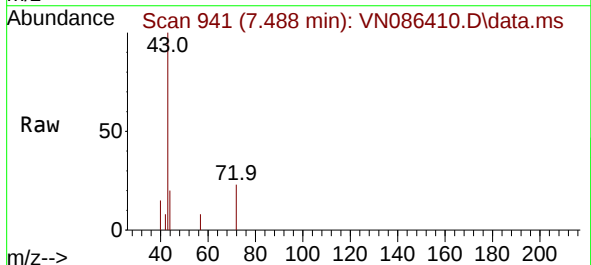
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 118.6 | 98.2  | 147.2 |
| 51  | 43.1  | 29.8  | 44.6  |
| 86  | 66.3  | 52.0  | 78.0  |

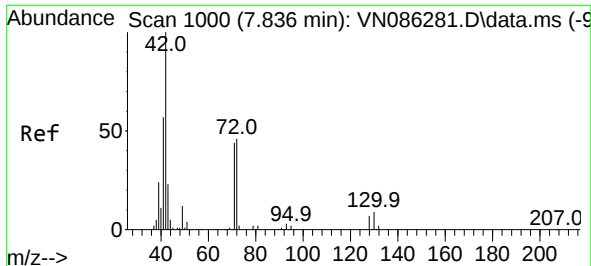


#25  
2-Butanone  
Concen: 4.099 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.012 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Tgt Ion: 43 Resp: 6423

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 23.1  | 21.7  | 32.5  |





#29

Tetrahydrofuran

Concen: 0.507 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN086410.D

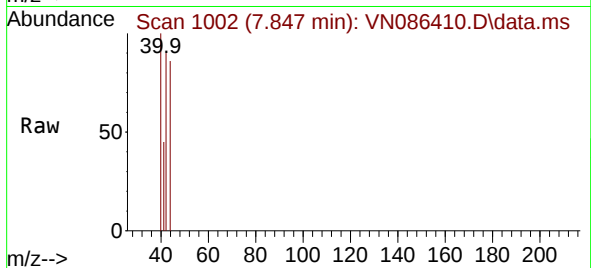
Acq: 28 Apr 2025 14:45

Instrument :

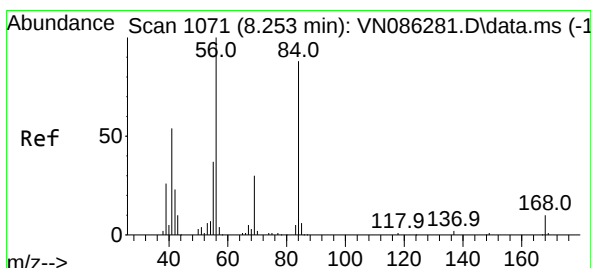
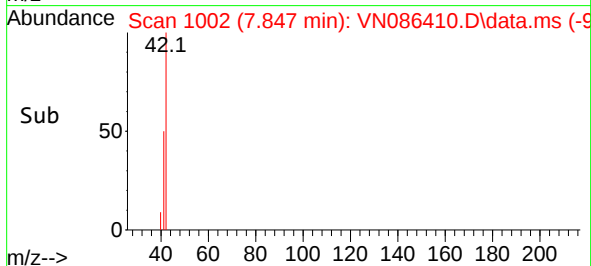
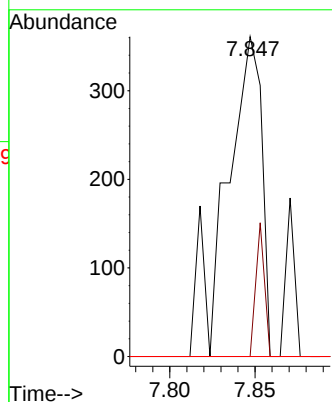
MSVOA\_N

ClientSampleId :

PB167744ZHE#07



|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 42   | Resp: | 531   |
| Ion Ratio | 100  | Lower | Upper |
| 42        | 100  |       |       |
| 72        | 10.0 | 36.2  | 54.4# |
| 71        | 0.0  | 34.0  | 51.0# |



#31

Cyclohexane

Concen: 0.990 ug/l

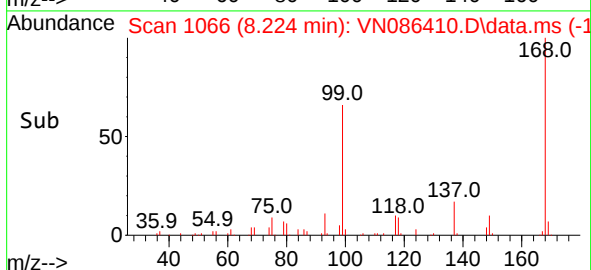
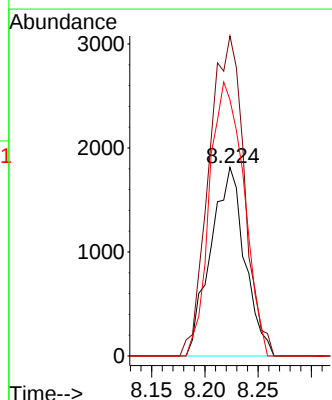
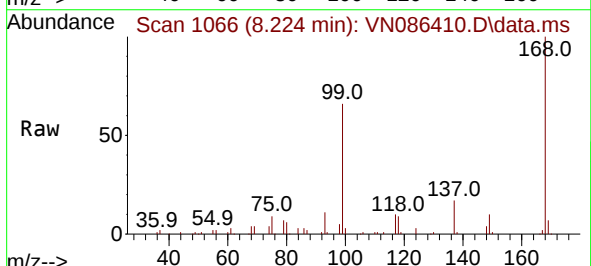
RT: 8.224 min Scan# 1066

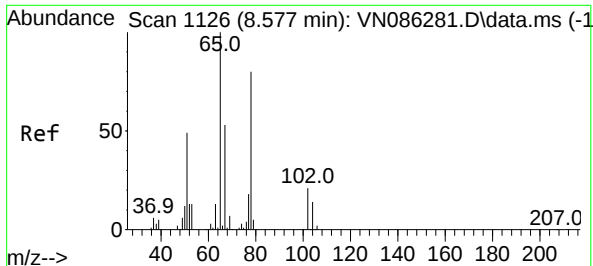
Delta R.T. -0.030 min

Lab File: VN086410.D

Acq: 28 Apr 2025 14:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 56    | Resp: | 4041   |
| Ion Ratio | 100   | Lower | Upper  |
| 56        | 100   |       |        |
| 69        | 169.6 | 24.2  | 36.2#  |
| 84        | 135.8 | 70.3  | 105.5# |





#33

1,2-Dichloroethane-d4

Concen: 50.077 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086410.D

Acq: 28 Apr 2025 14:45

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MSVOA\_N

ClientSampleId :

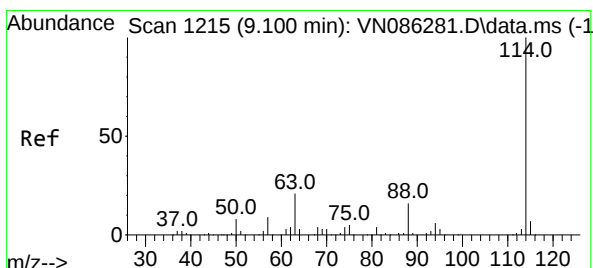
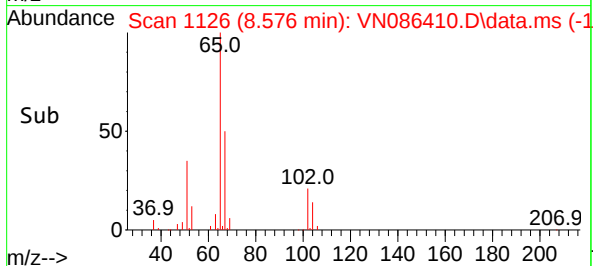
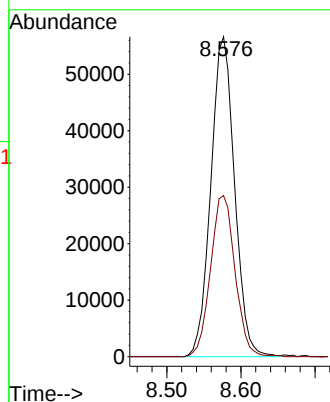
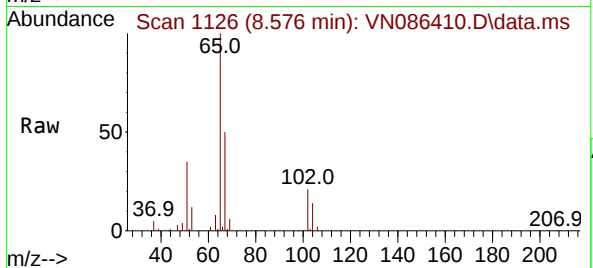
PB167744ZHE#07

Tgt Ion: 65 Resp: 126074

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086410.D

Acq: 28 Apr 2025 14:45

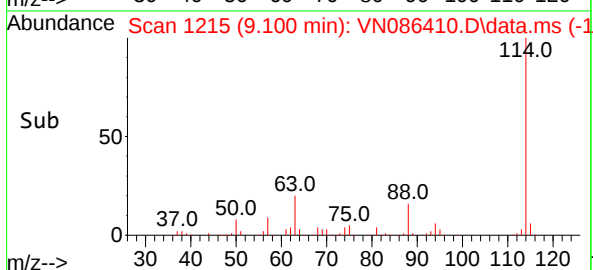
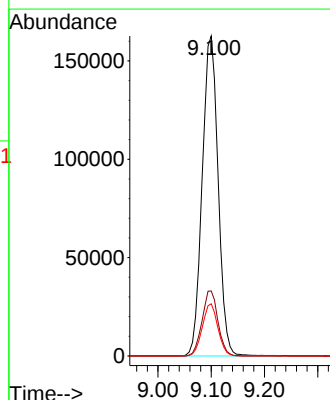
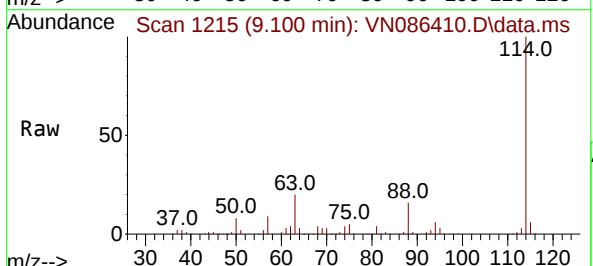
Tgt Ion: 114 Resp: 337344

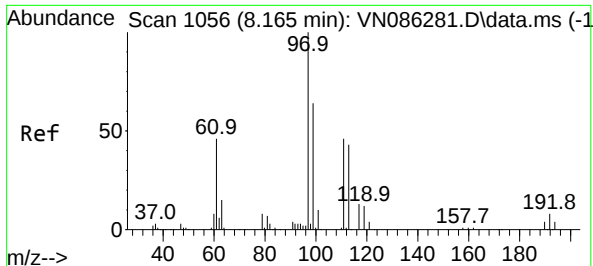
Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 16.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.246 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086410.D

Acq: 28 Apr 2025 14:45

Instrument :

MSVOA\_N

ClientSampleId :

PB167744ZHE#07

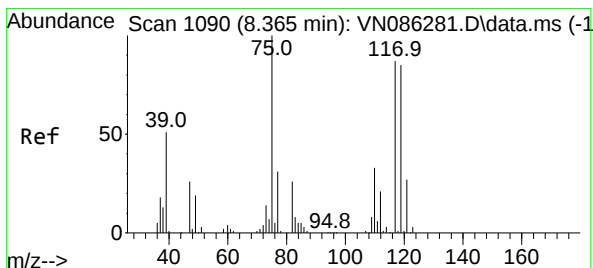
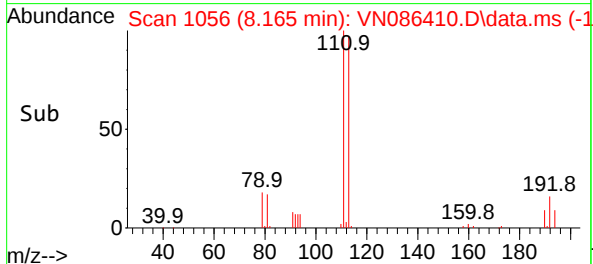
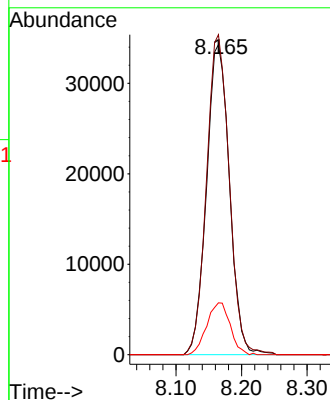
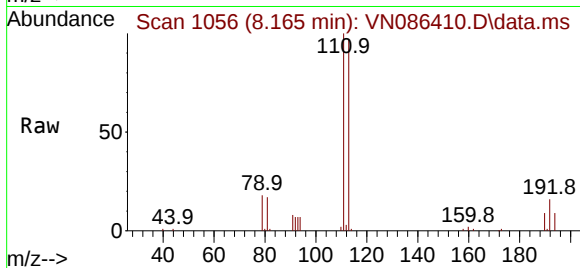
Tgt Ion:113 Resp: 83365

Ion Ratio Lower Upper

113 100

111 102.2 83.4 125.0

192 17.1 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.832 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086410.D

Acq: 28 Apr 2025 14:45

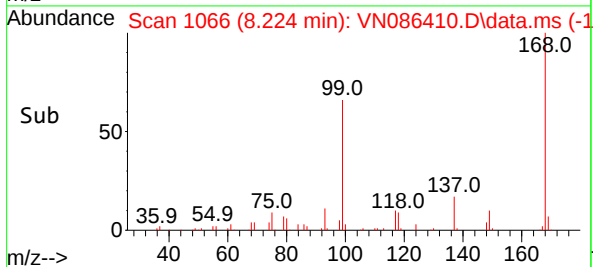
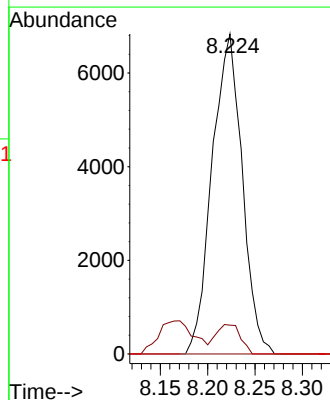
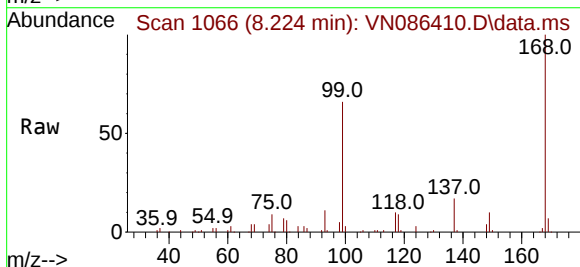
Tgt Ion: 75 Resp: 15110

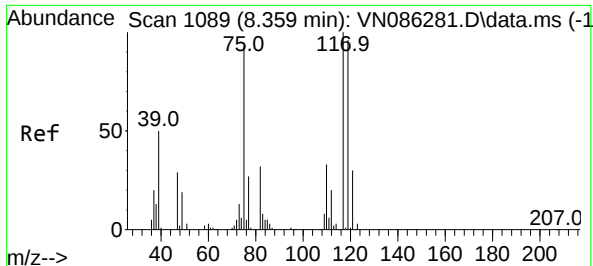
Ion Ratio Lower Upper

75 100

110 7.5 16.8 50.4#

77 0.0 24.9 37.3#

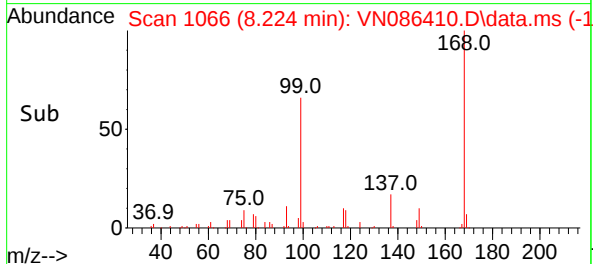
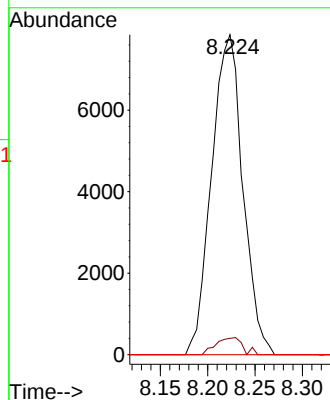
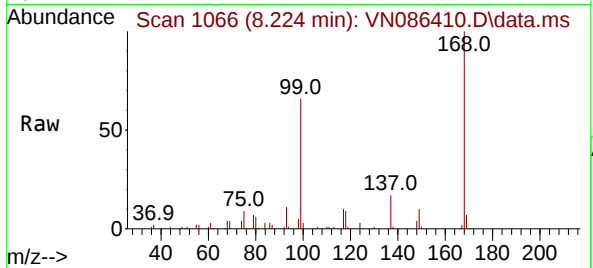




#38  
Carbon Tetrachloride  
Concen: 6.058 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

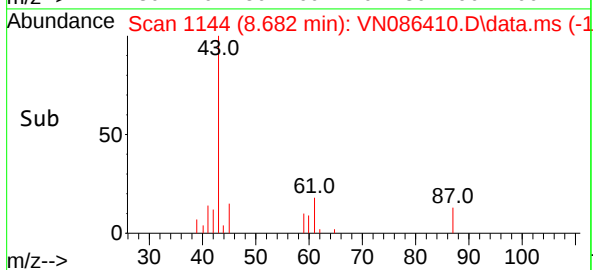
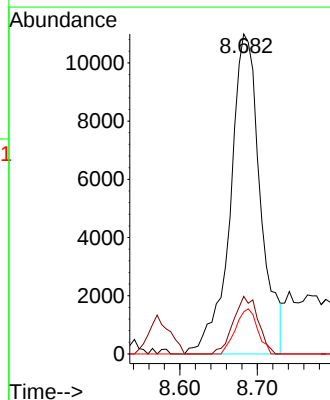
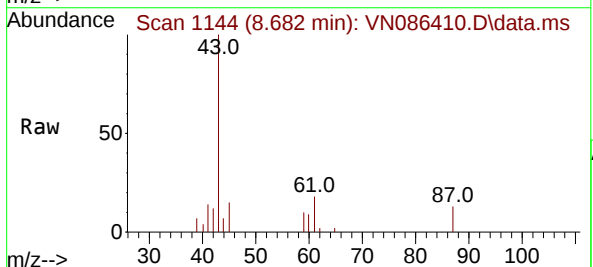
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167744ZHE#07

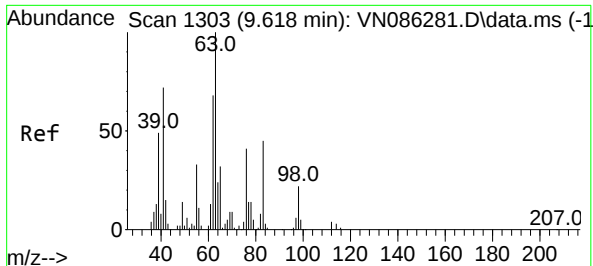
Tgt Ion:117 Resp: 18041  
Ion Ratio Lower Upper  
117 100  
119 5.1 76.8 115.2#  
121 0.0 23.8 35.8#



#43  
Isopropyl Acetate  
Concen: 3.234 ug/l  
RT: 8.682 min Scan# 1144  
Delta R.T. -0.001 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Tgt Ion: 43 Resp: 29770  
Ion Ratio Lower Upper  
43 100  
61 14.8 20.5 30.7#  
87 10.3 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.384 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.123 min

Lab File: VN086410.D

Acq: 28 Apr 2025 14:45

Instrument :

MSVOA\_N

ClientSampleId :

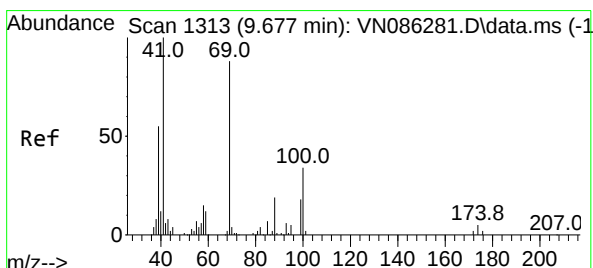
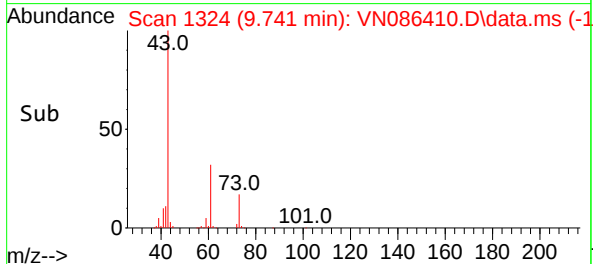
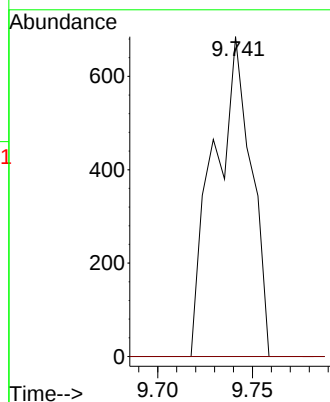
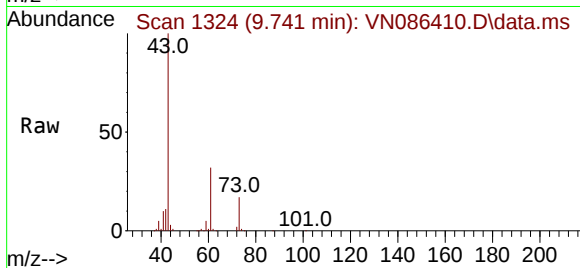
PB167744ZHE#07

Tgt Ion: 63 Resp: 942

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 24.293 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086410.D

Acq: 28 Apr 2025 14:45

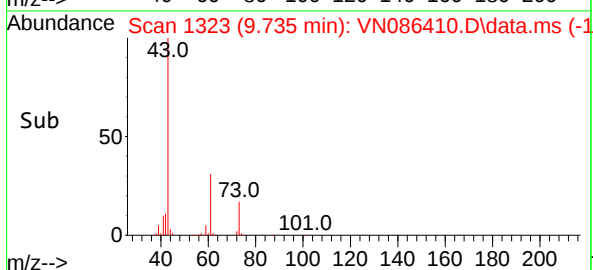
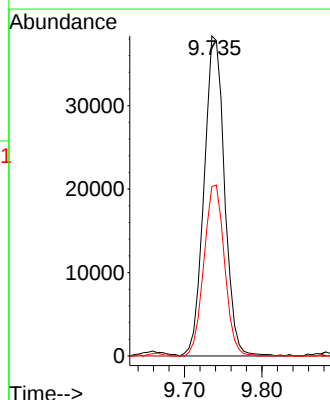
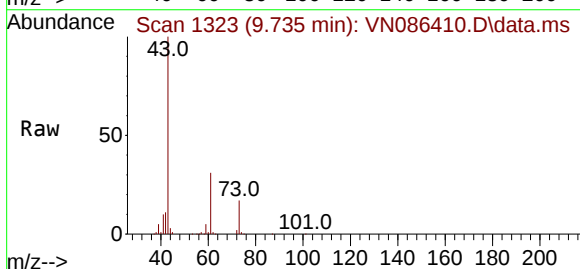
Tgt Ion: 41 Resp: 70236

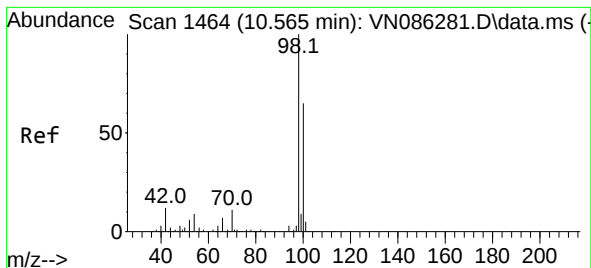
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 53.9 45.2 67.8

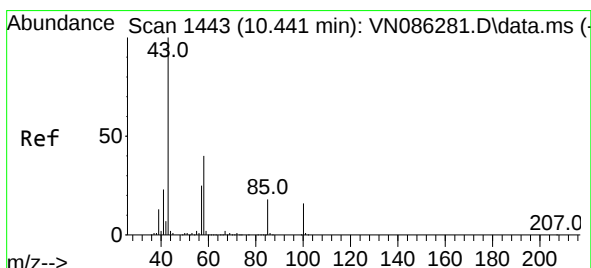
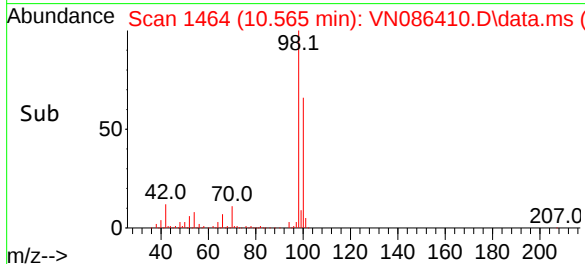
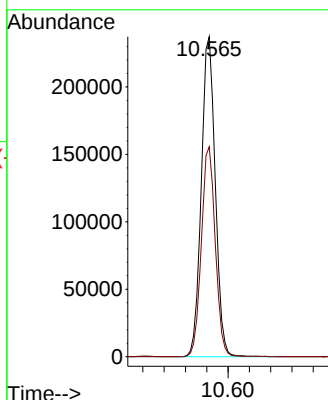
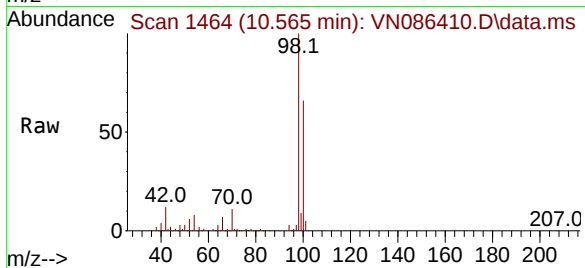




#50  
Toluene-d8  
Concen: 51.480 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

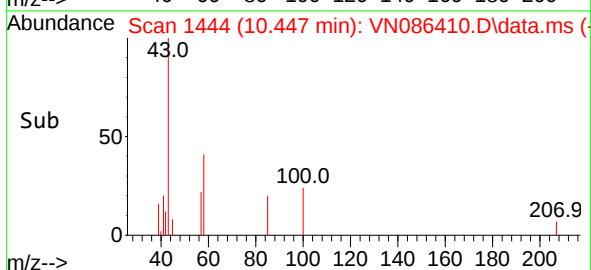
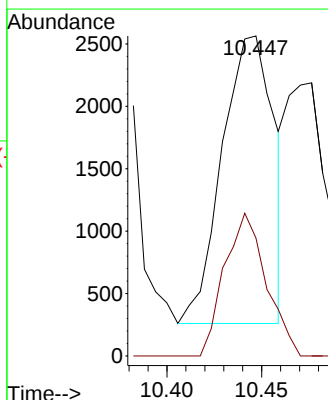
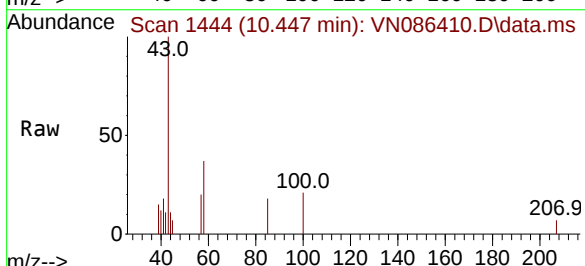
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167744ZHE#07

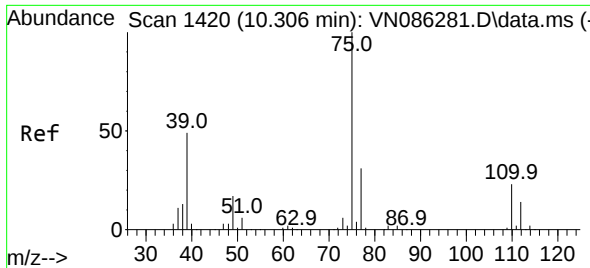
Tgt Ion: 98 Resp: 430762  
Ion Ratio Lower Upper  
98 100  
100 65.5 52.5 78.7



#51  
4-Methyl-2-Pentanone  
Concen: 1.300 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. 0.006 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Tgt Ion: 43 Resp: 4381  
Ion Ratio Lower Upper  
43 100  
58 39.9 32.2 48.4

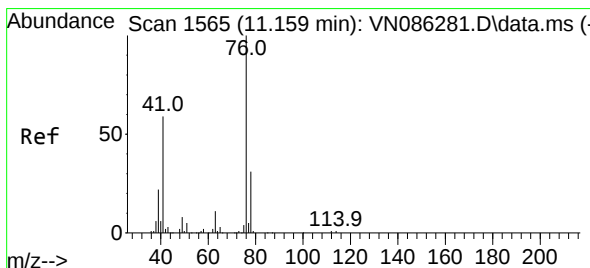
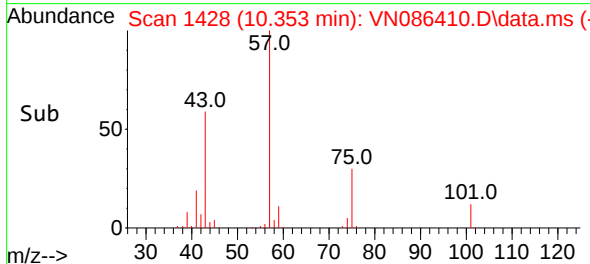
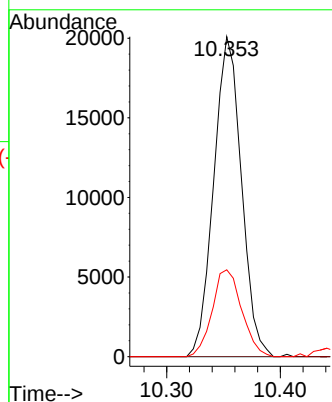
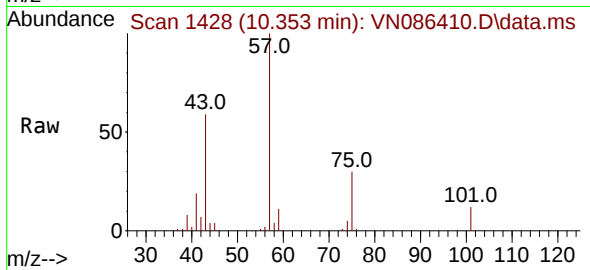




#54  
cis-1,3-Dichloropropene  
Concen: 8.215 ug/l  
RT: 10.353 min Scan# 1428  
Delta R.T. 0.047 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

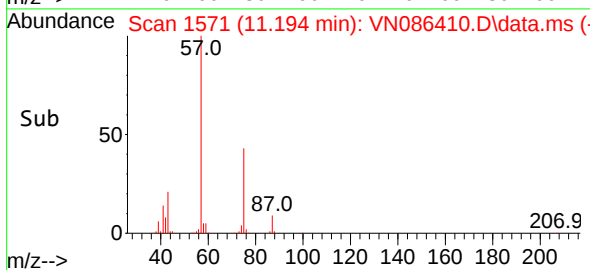
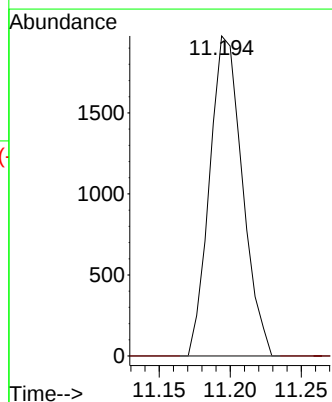
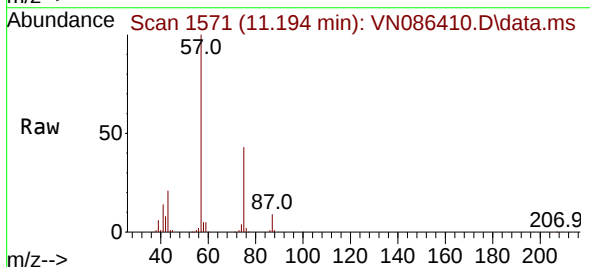
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167744ZHE#07

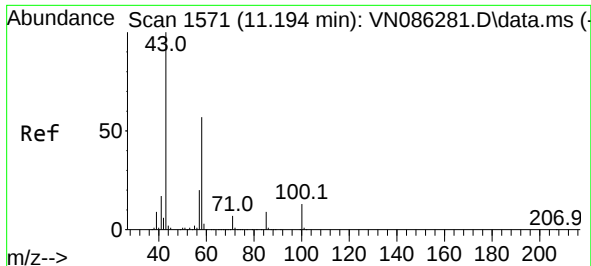
Tgt Ion: 75 Resp: 33992  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.2 37.8#  
39 27.1 39.3 58.9#



#57  
1,3-Dichloropropane  
Concen: 0.793 ug/l  
RT: 11.194 min Scan# 1571  
Delta R.T. 0.035 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Tgt Ion: 76 Resp: 3164  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.6 38.4#

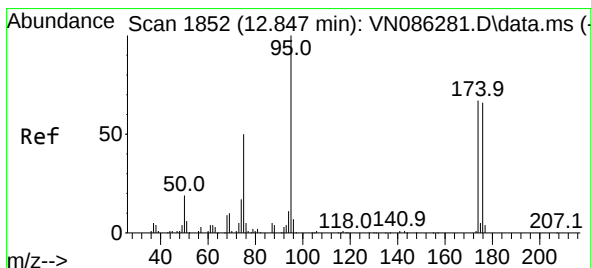
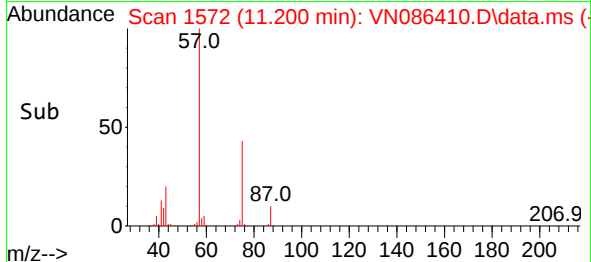
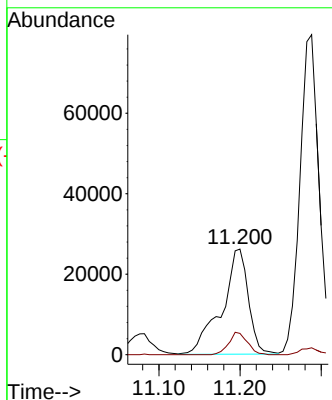
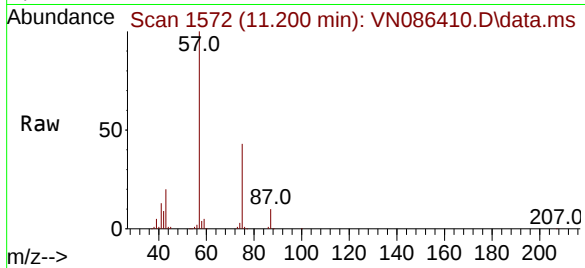




#59  
2-Hexanone  
Concen: 23.780 ug/l  
RT: 11.200 min Scan# 1572  
Delta R.T. 0.006 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

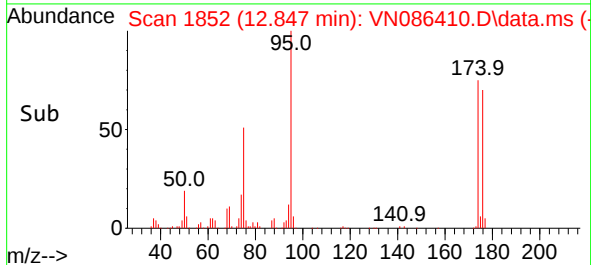
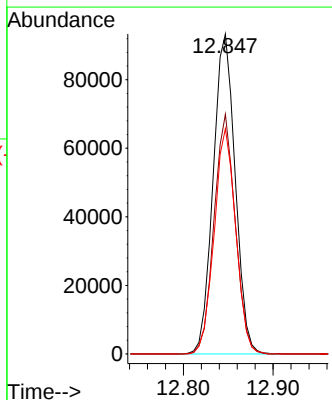
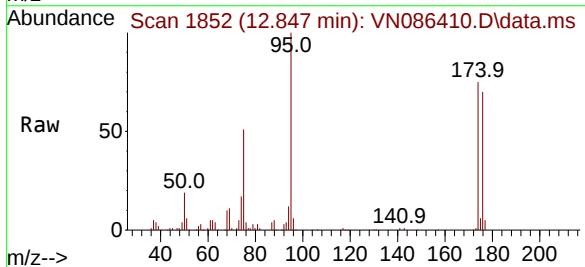
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167744ZHE#07

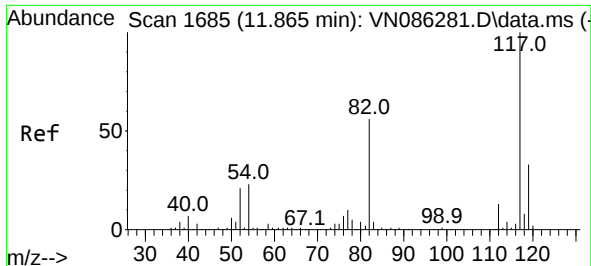
Tgt Ion: 43 Resp: 59465  
Ion Ratio Lower Upper  
43 100  
58 14.9 28.3 85.0#



#62  
4-Bromofluorobenzene  
Concen: 52.157 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Tgt Ion: 95 Resp: 159184  
Ion Ratio Lower Upper  
95 100  
174 72.1 0.0 133.4  
176 68.8 0.0 129.2

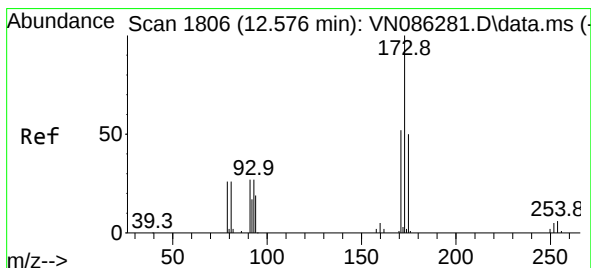
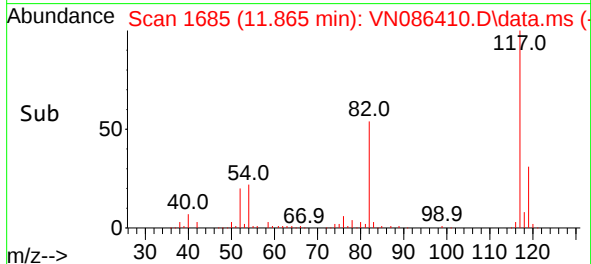
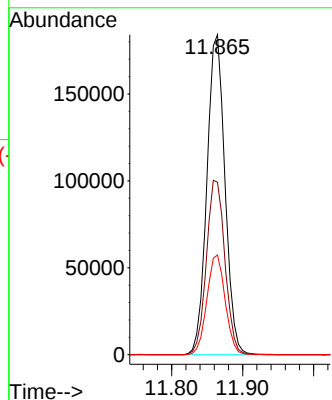
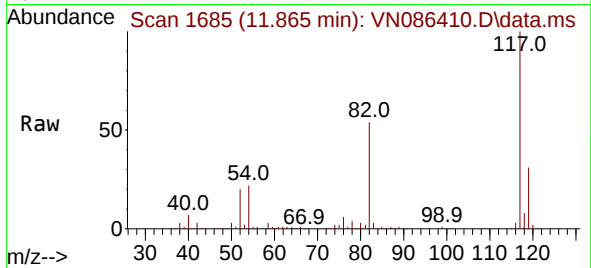




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

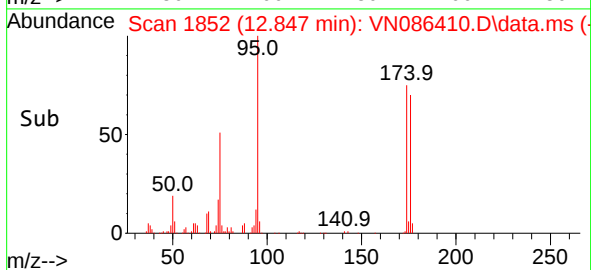
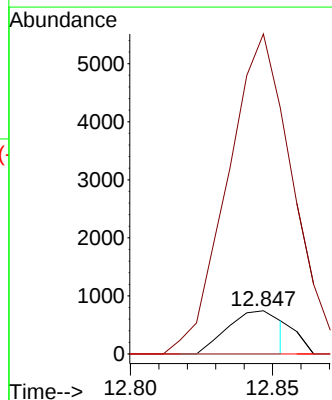
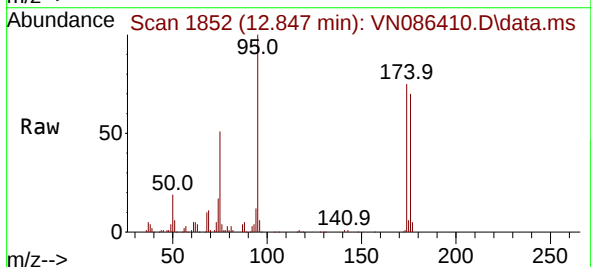
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167744ZHE#07

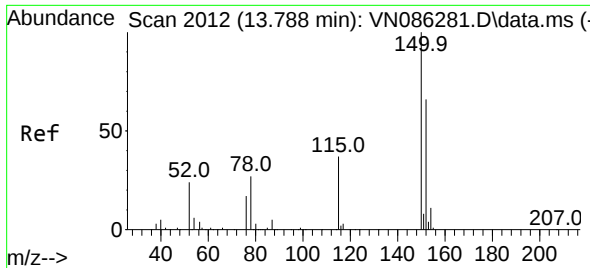
Tgt Ion:117 Resp: 325417  
Ion Ratio Lower Upper  
117 100  
82 53.9 44.7 67.1  
119 31.1 26.4 39.6



#71  
Bromoform  
Concen: 0.539 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.270 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Tgt Ion:173 Resp: 972  
Ion Ratio Lower Upper  
173 100  
175 740.6 24.6 73.6#  
254 0.0 0.0 0.0

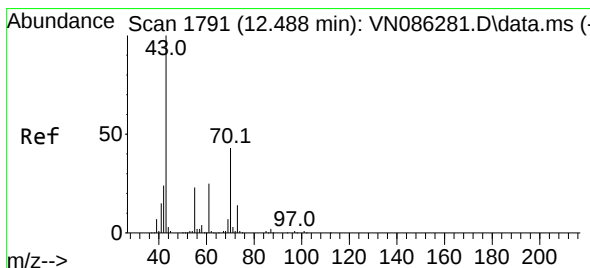
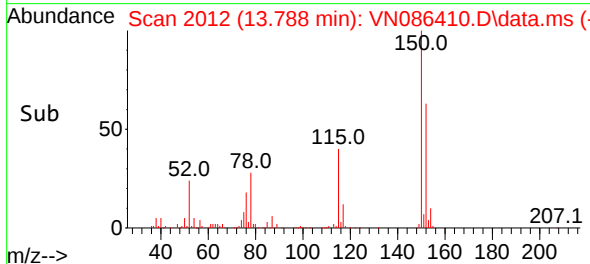
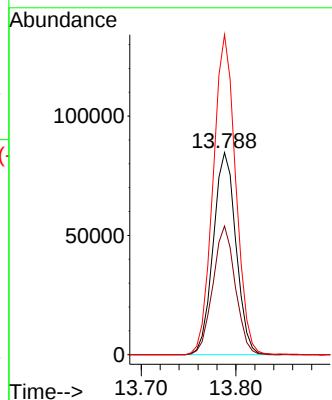
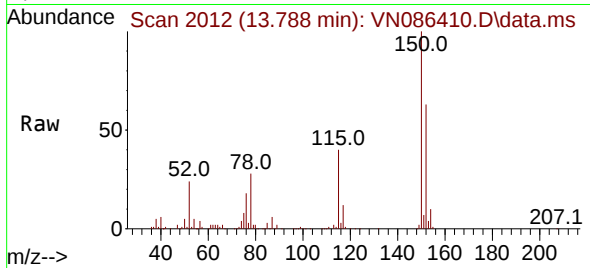




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. -0.000 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

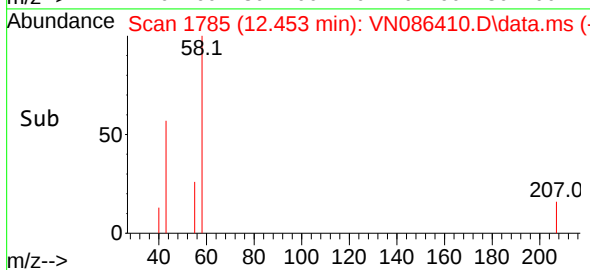
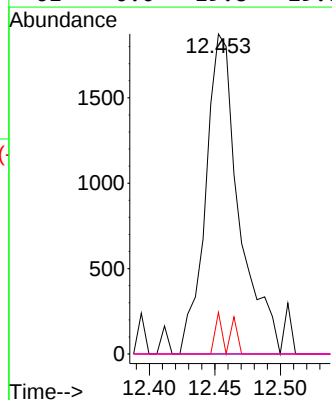
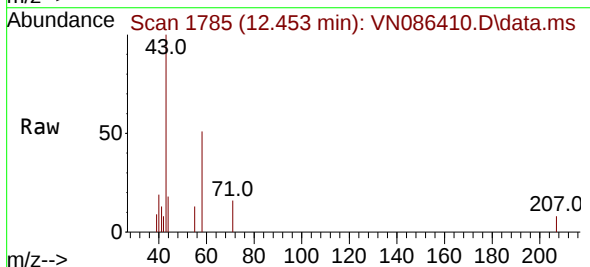
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ClientSampleId :  
PB167744ZHE#07

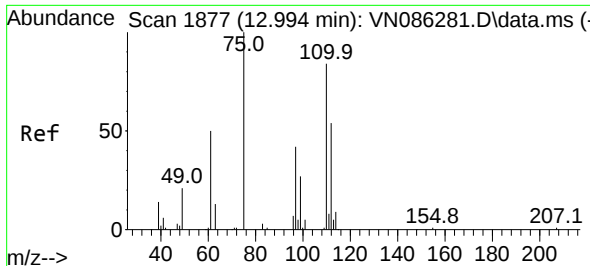
Tgt Ion:152 Resp: 141094  
Ion Ratio Lower Upper  
152 100  
115 62.7 31.9 95.9  
150 157.6 0.0 352.0



#74  
N-ethyl acetate  
Concen: 0.579 ug/l  
RT: 12.453 min Scan# 1785  
Delta R.T. -0.035 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Tgt Ion: 43 Resp: 3326  
Ion Ratio Lower Upper  
43 100  
70 0.0 35.0 52.4#  
55 4.9 19.0 28.4#  
61 0.0 19.8 29.8#

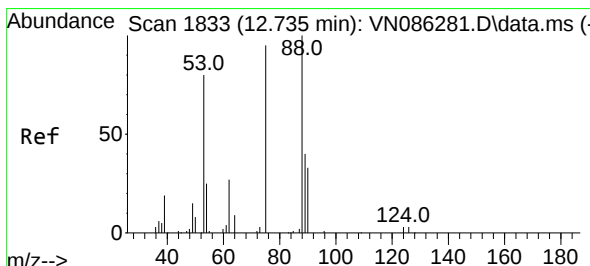
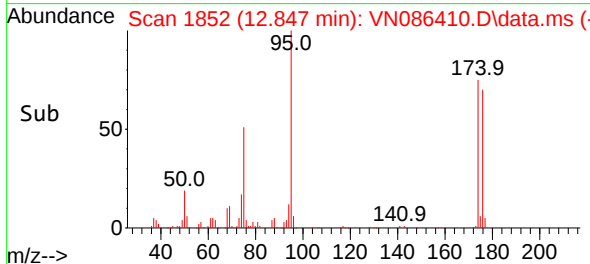
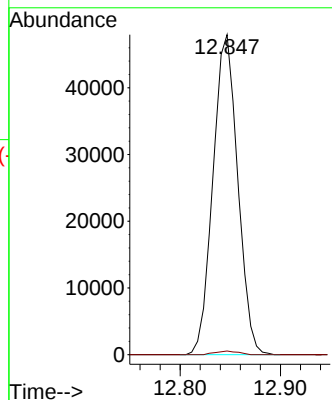
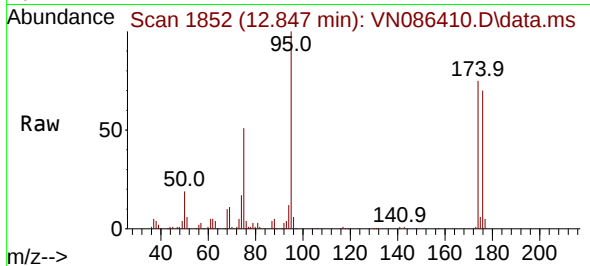




#76  
1,2,3-Trichloropropane  
Concen: 24.653 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167744ZHE#07

Tgt Ion: 75 Resp: 82085  
Ion Ratio Lower Upper  
75 100  
77 1.0 98.8 296.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 59.207 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN086410.D  
Acq: 28 Apr 2025 14:45

Tgt Ion: 75 Resp: 82085  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.2 118.8#  
89 0.1 35.7 53.5#

