

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011725\  
 Data File : VN085494.D  
 Acq On : 17 Jan 2025 15:36  
 Operator : JC\MD  
 Sample : Q1115-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

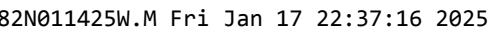
Instrument :  
 MSVOA\_N  
 ClientSampleId :

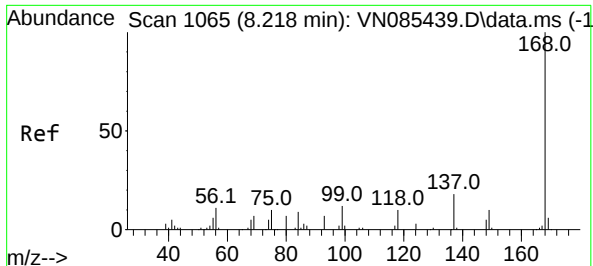
Quant Time: Jan 17 22:37:06 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011425W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 15 02:16:08 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 171685   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 338097   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 310797   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 116685   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 154623   | 55.793   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 111.580% |
| 35) Dibromofluoromethane      | 8.165  | 113   | 114448   | 48.793   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 97.580%  |
| 50) Toluene-d8                | 10.565 | 98    | 425716   | 51.083   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 102.160% |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 131193   | 46.020   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 92.040%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Bromomethane               | 2.971  | 94    | 313      | 0.205    | ug/l # | 81       |
| 11) Tert butyl alcohol        | 5.524  | 59    | 1355     | 4.270    | ug/l # | 71       |
| 13) Acrolein                  | 4.183  | 56    | 432      | 0.997    | ug/l # | 76       |
| 16) Acetone                   | 4.424  | 43    | 132400   | 147.859  | ug/l   | 98       |
| 18) Methyl Acetate            | 5.036  | 43    | 3335     | 1.225    | ug/l # | 82       |
| 20) Methylene Chloride        | 5.277  | 84    | 2435     | 1.098    | ug/l # | 74       |
| 23) Vinyl Acetate             | 6.465  | 43    | 2420     | 0.521    | ug/l # | 72       |
| 25) 2-Butanone                | 7.488  | 43    | 14246    | 10.811   | ug/l   | 93       |
| 30) Chloroform                | 7.971  | 83    | 1274     | 0.305    | ug/l # | 76       |
| 31) Cyclohexane               | 8.224  | 56    | 4871     | 1.385    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 16703    | 5.074    | ug/l # | 50       |
| 37) Ethyl Acetate             | 7.565  | 43    | 3885     | 1.169    | ug/l # | 81       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 20450    | 5.426    | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 233385   | 43.835   | ug/l # | 77       |
| 45) 1,2-Dichloropropane       | 9.735  | 63    | 1388     | 0.549    | ug/l # | 43       |
| 48) Methyl methacrylate       | 9.665  | 41    | 4006     | 1.672    | ug/l # | 45       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43    | 15731    | 5.092    | ug/l # | 83       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 41208    | 10.991   | ug/l # | 68       |
| 56) Ethyl methacrylate        | 10.812 | 69    | 158      | 1.971    | ug/l # | 23       |
| 57) 1,3-Dichloropropane       | 11.200 | 76    | 5146     | 1.305    | ug/l # | 43       |
| 59) 2-Hexanone                | 11.171 | 43    | 117933   | 54.249   | ug/l # | 26       |
| 74) N-amyl acetate            | 12.459 | 43    | 1222     | 0.345    | ug/l # | 49       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 73802    | 31.118   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 73802    | 84.193   | ug/l # | 3        |

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

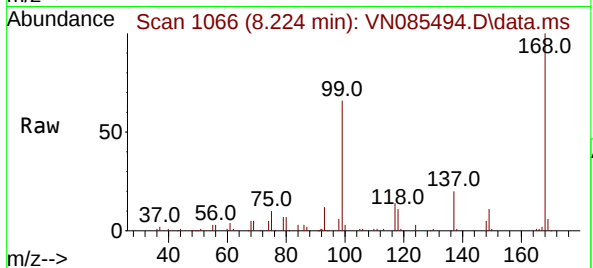
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Quant Title : SW846 8260  
QLast Update : Wed Jan 15 02:16:08 2025  
Response via : Initial Calibration



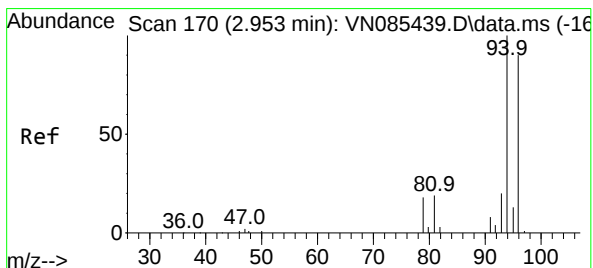
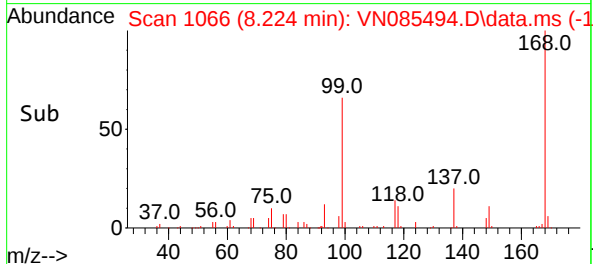
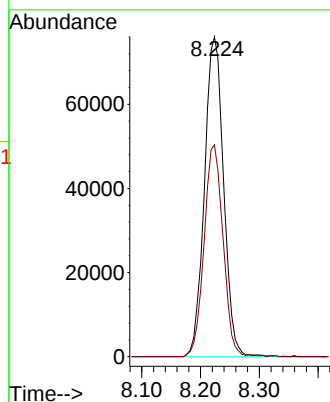


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. 0.006 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :

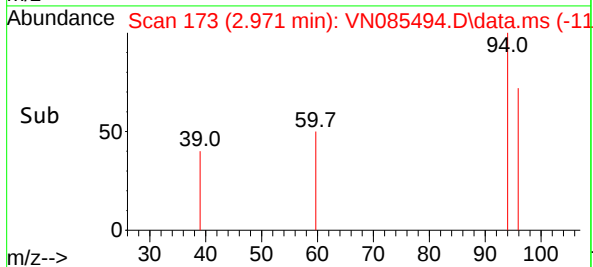
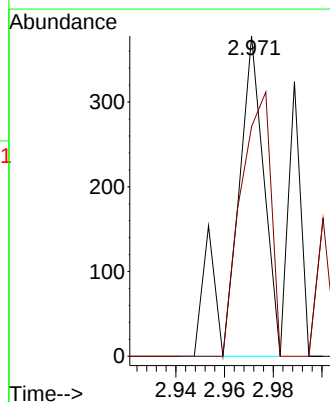
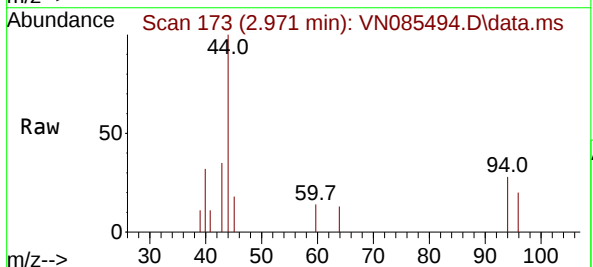


Tgt Ion:168 Resp: 171685  
Ion Ratio Lower Upper  
168 100  
99 66.2 53.6 80.4



#5  
Bromomethane  
Concen: 0.205 ug/l  
RT: 2.971 min Scan# 173  
Delta R.T. 0.018 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

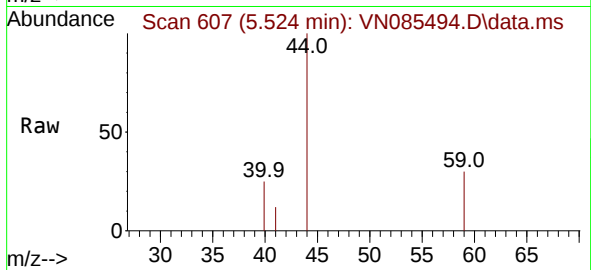
Tgt Ion: 94 Resp: 313  
Ion Ratio Lower Upper  
94 100  
96 71.7 71.8 107.6#



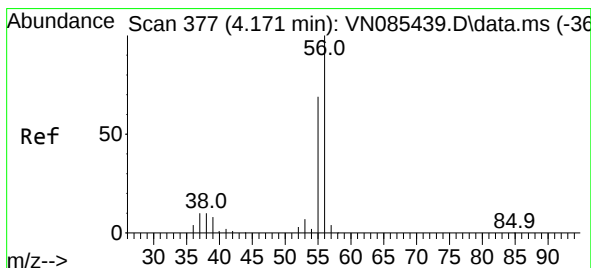
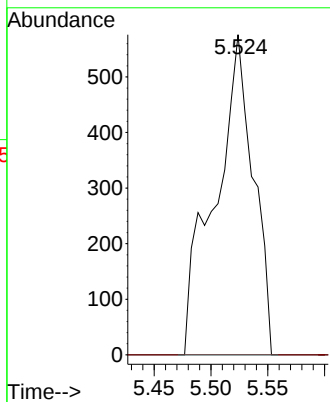
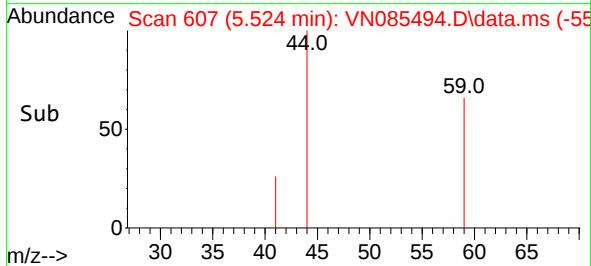


#11  
Tert butyl alcohol  
Concen: 4.270 ug/l  
RT: 5.524 min Scan# 605  
Delta R.T. 0.012 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

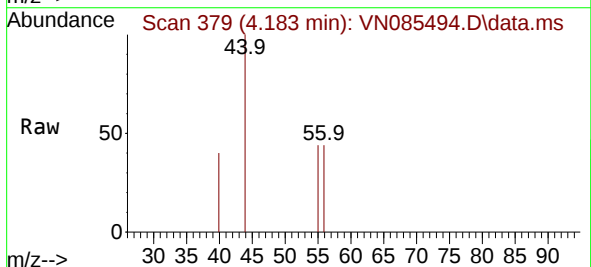
Instrument :  
MSVOA\_N  
ClientSampleId :



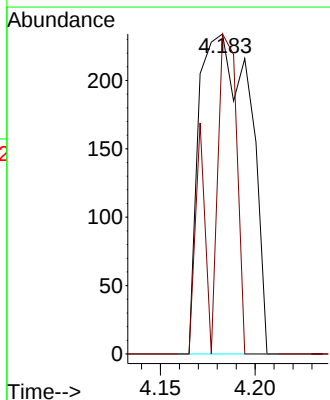
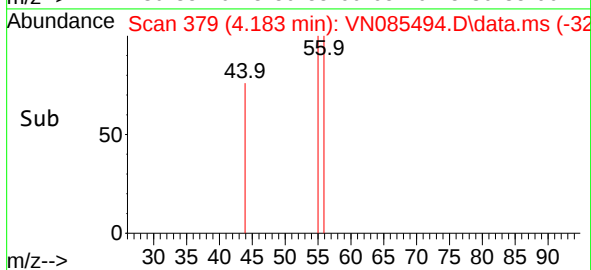
Tgt Ion: 59 Resp: 1355  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 13.0#

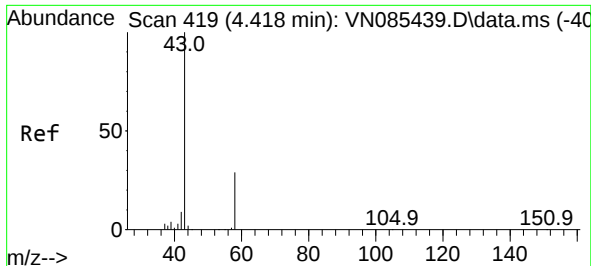


#13  
Acrolein  
Concen: 0.997 ug/l  
RT: 4.183 min Scan# 379  
Delta R.T. 0.012 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36



Tgt Ion: 56 Resp: 432  
Ion Ratio Lower Upper  
56 100  
55 50.9 56.3 84.5#

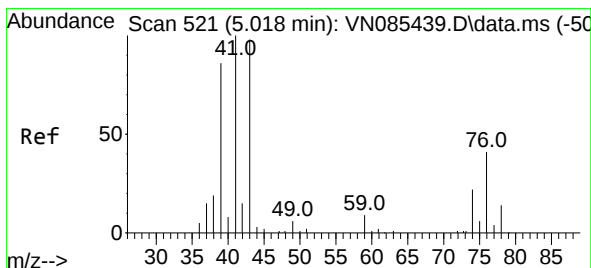
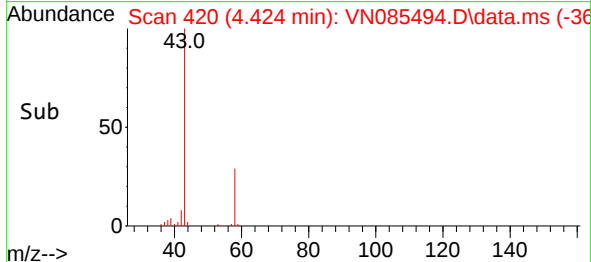
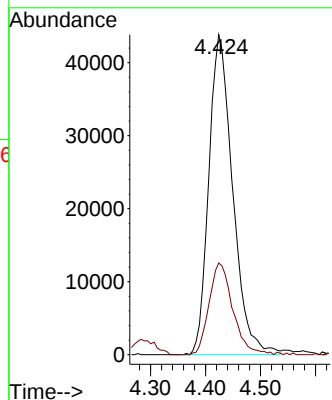
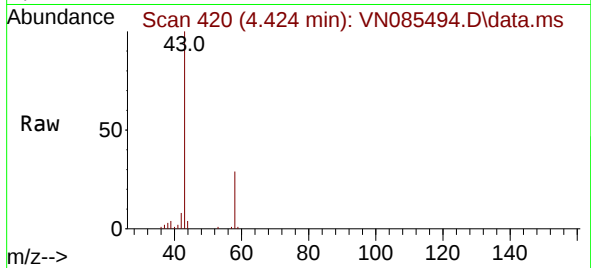




#16  
Acetone  
Concen: 147.859 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

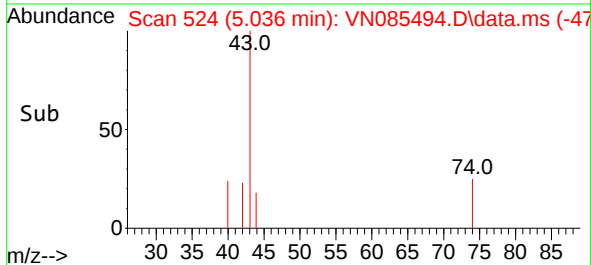
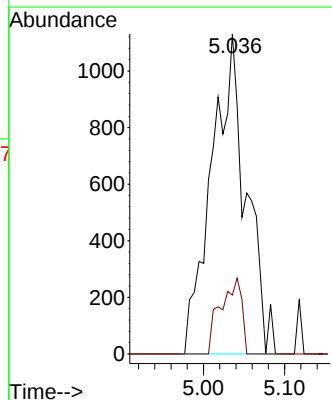
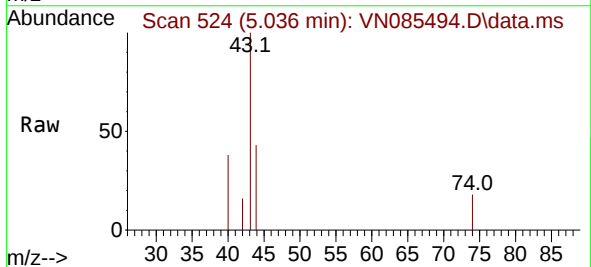
Instrument :  
MSVOA\_N  
ClientSampleId :

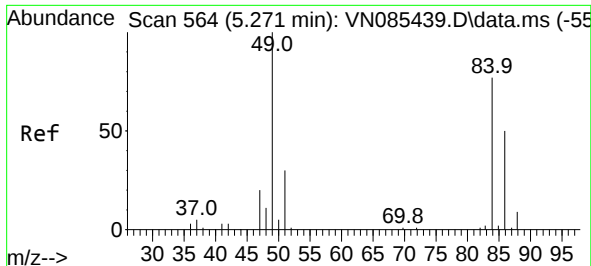
Tgt Ion: 43 Resp: 132400  
Ion Ratio Lower Upper  
43 100  
58 28.6 23.8 35.6



#18  
Methyl Acetate  
Concen: 1.225 ug/l  
RT: 5.036 min Scan# 524  
Delta R.T. 0.018 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

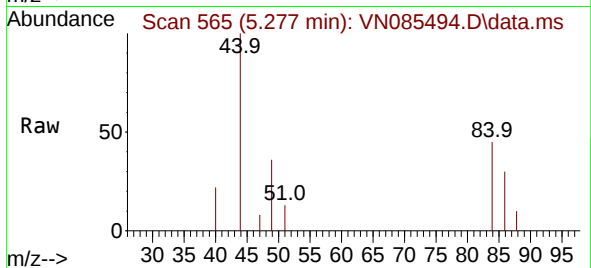
Tgt Ion: 43 Resp: 3335  
Ion Ratio Lower Upper  
43 100  
74 14.5 18.6 28.0#



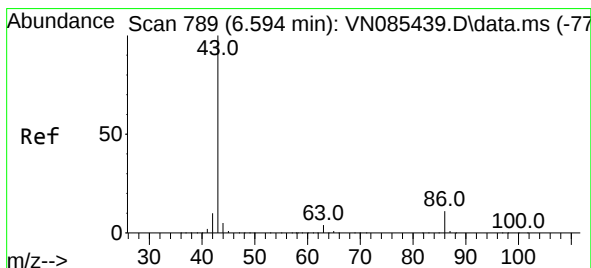
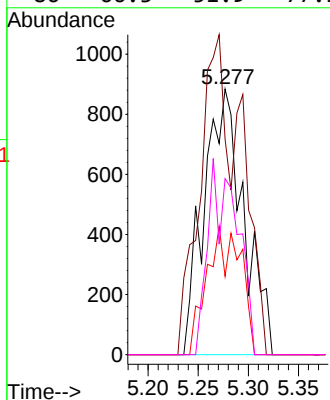
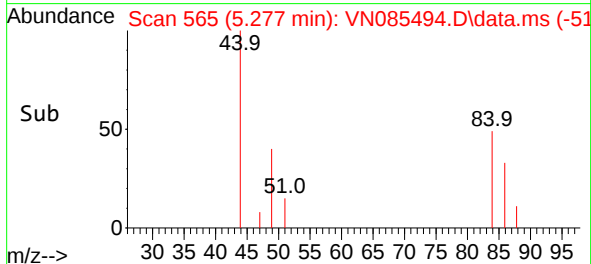


#20  
Methylene Chloride  
Concen: 1.098 ug/l  
RT: 5.277 min Scan# 50  
Delta R.T. 0.006 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :

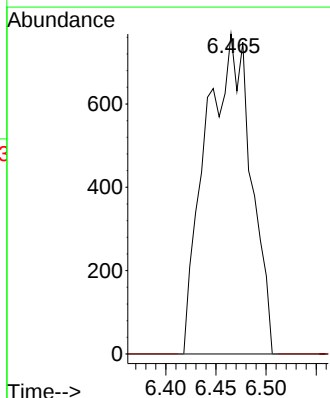
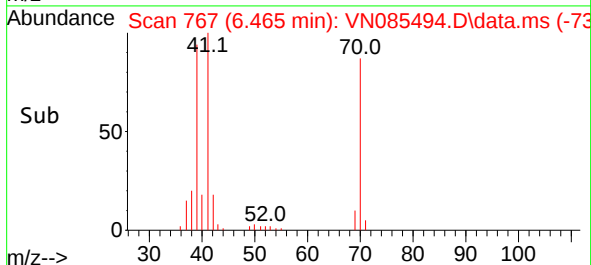
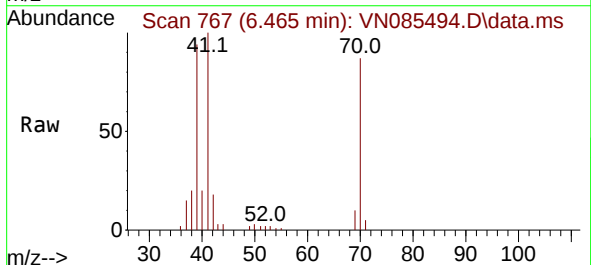


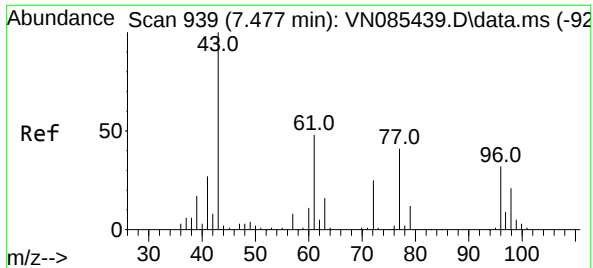
Tgt Ion: 84 Resp: 2435  
Ion Ratio Lower Upper  
84 100  
49 81.2 104.1 156.1#  
51 29.5 31.0 46.4#  
86 66.3 51.9 77.9



#23  
Vinyl Acetate  
Concen: 0.521 ug/l  
RT: 6.465 min Scan# 767  
Delta R.T. -0.129 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

Tgt Ion: 43 Resp: 2420  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.4 12.6#

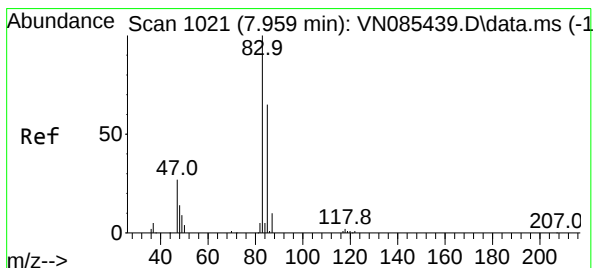
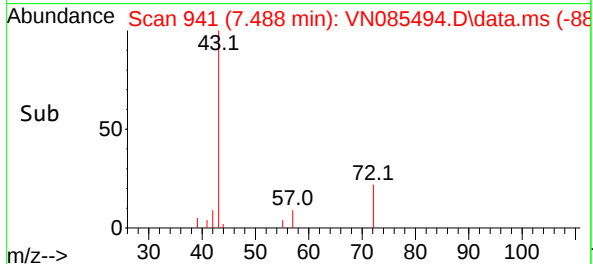
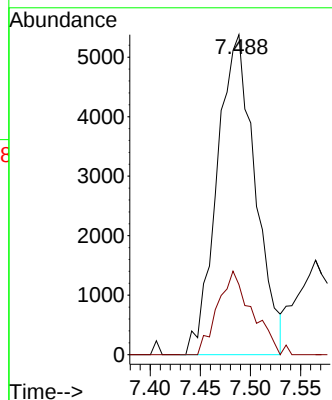
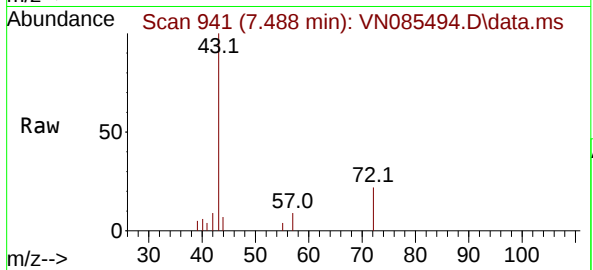




#25  
2-Butanone  
Concen: 10.811 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.012 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

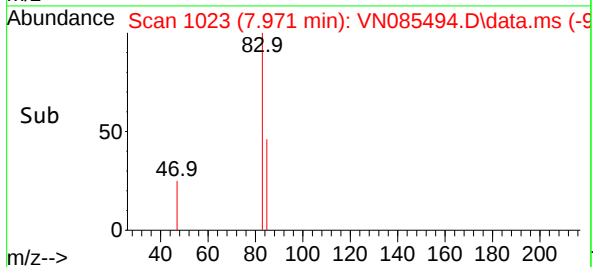
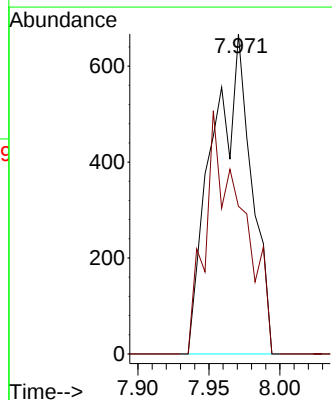
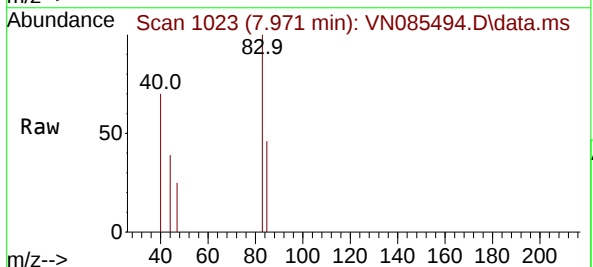
Instrument :  
MSVOA\_N  
ClientSampleId :

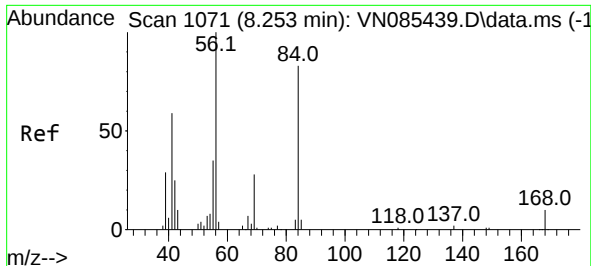
Tgt Ion: 43 Resp: 14246  
Ion Ratio Lower Upper  
43 100  
72 21.9 20.2 30.4



#30  
Chloroform  
Concen: 0.305 ug/l  
RT: 7.971 min Scan# 1023  
Delta R.T. 0.012 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

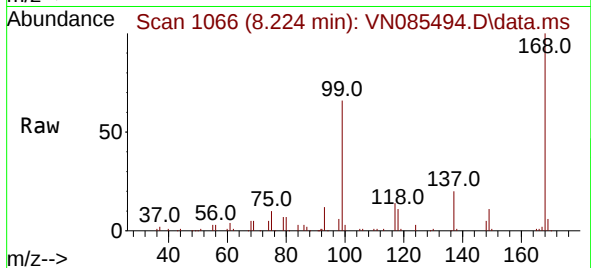
Tgt Ion: 83 Resp: 1274  
Ion Ratio Lower Upper  
83 100  
85 46.2 51.8 77.6#



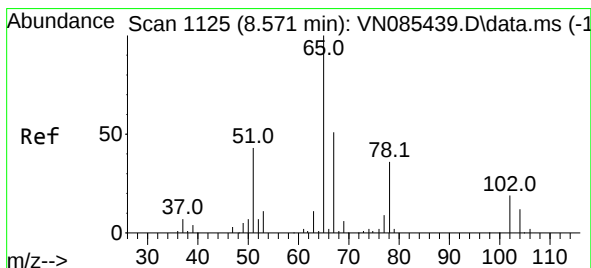
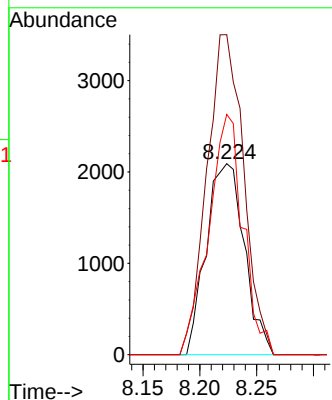
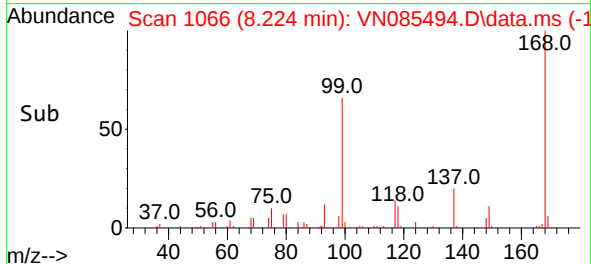


#31  
Cyclohexane  
Concen: 1.385 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :

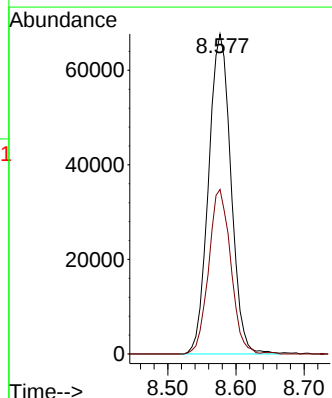
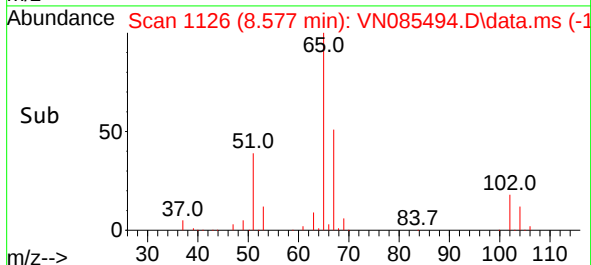
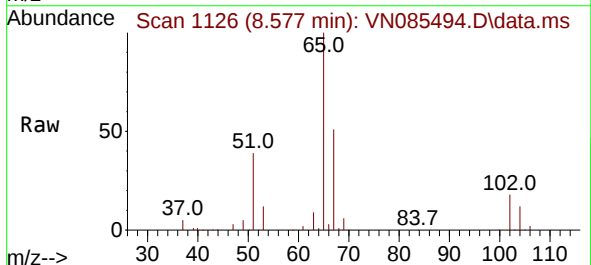


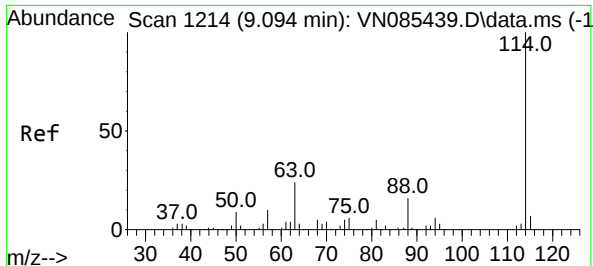
Tgt Ion: 56 Resp: 4871  
Ion Ratio Lower Upper  
56 100  
69 167.5 22.2 33.4#  
84 125.8 66.4 99.6#



#33  
1,2-Dichloroethane-d4  
Concen: 55.793 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. 0.006 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

Tgt Ion: 65 Resp: 154623  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085494.D

Acq: 17 Jan 2025 15:36

Instrument :

MSVOA\_N

ClientSampleId :

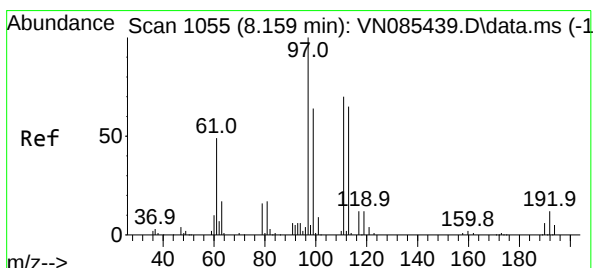
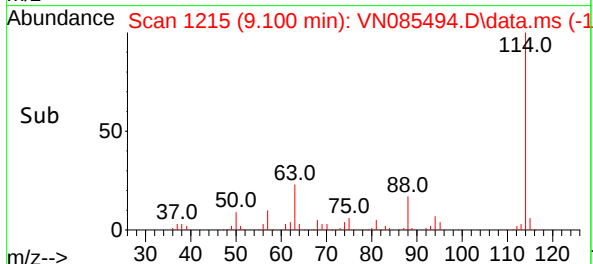
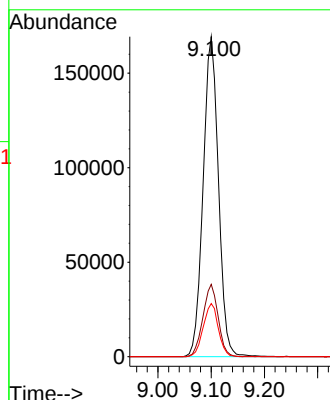
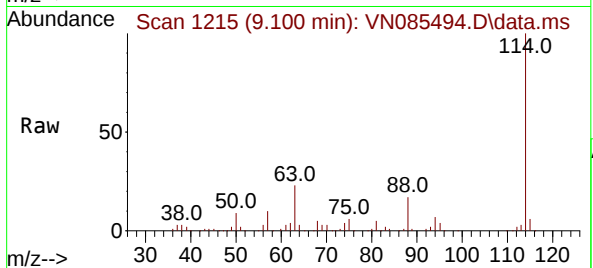
Tgt Ion:114 Resp: 338097

Ion Ratio Lower Upper

114 100

63 22.6 0.0 47.6

88 16.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.793 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085494.D

Acq: 17 Jan 2025 15:36

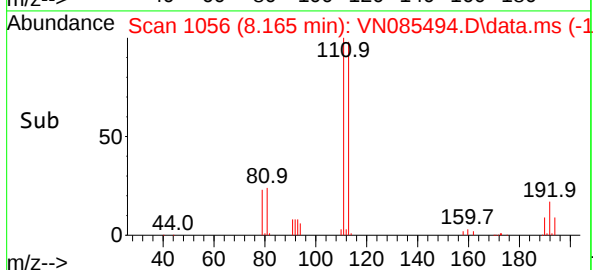
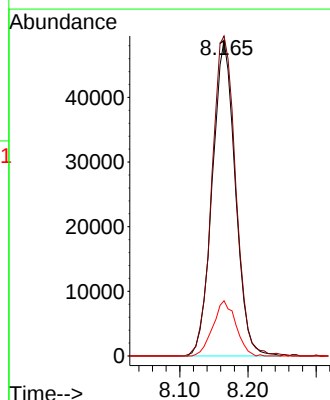
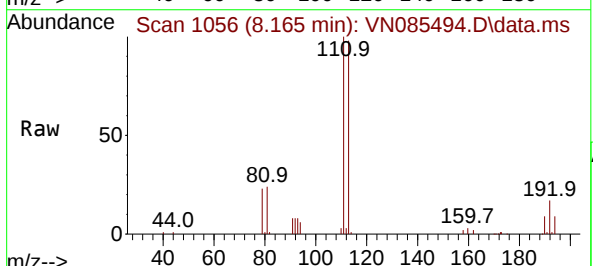
Tgt Ion:113 Resp: 114448

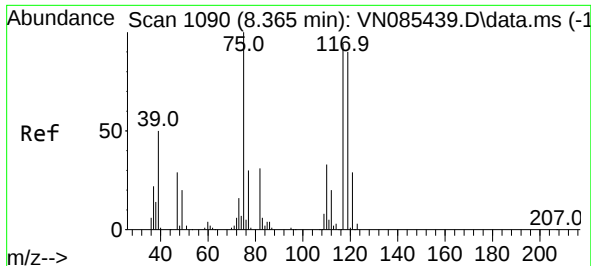
Ion Ratio Lower Upper

113 100

111 104.9 82.7 124.1

192 17.4 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.074 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

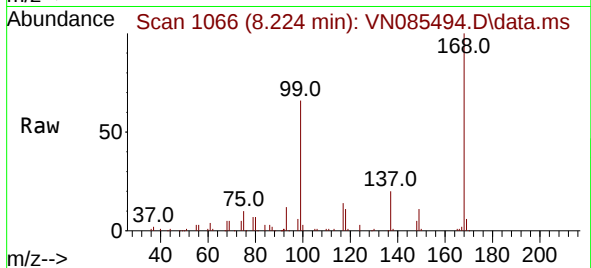
Lab File: VN085494.D

Acq: 17 Jan 2025 15:36

Instrument :

MSVOA\_N

ClientSampleId :



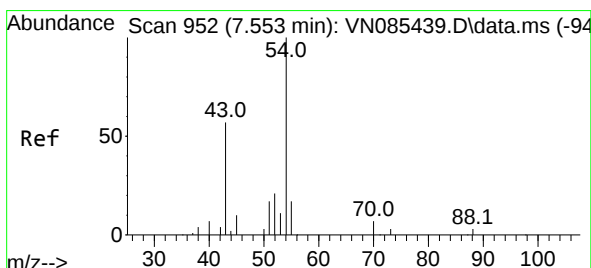
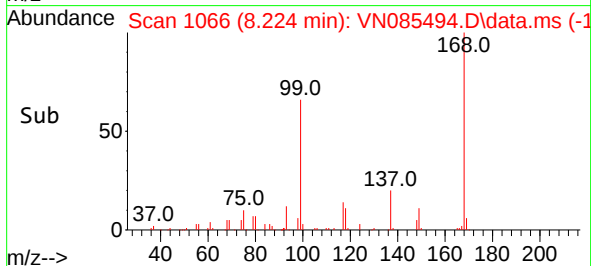
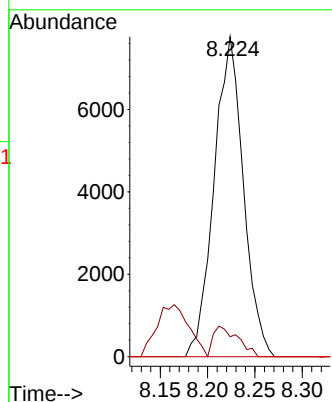
Tgt Ion: 75 Resp: 16703

Ion Ratio Lower Upper

75 100

110 8.0 16.5 49.5#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 1.169 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.012 min

Lab File: VN085494.D

Acq: 17 Jan 2025 15:36

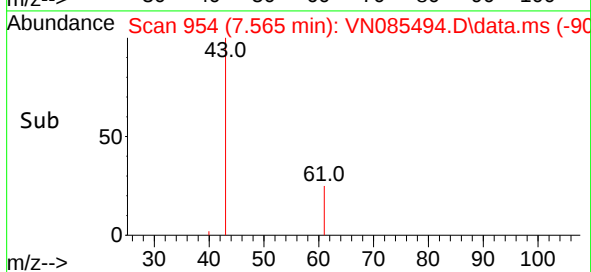
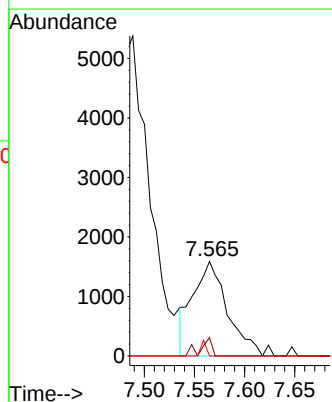
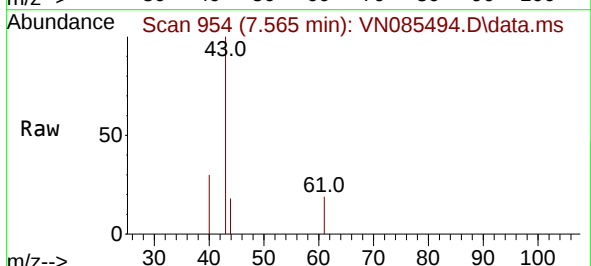
Tgt Ion: 43 Resp: 3885

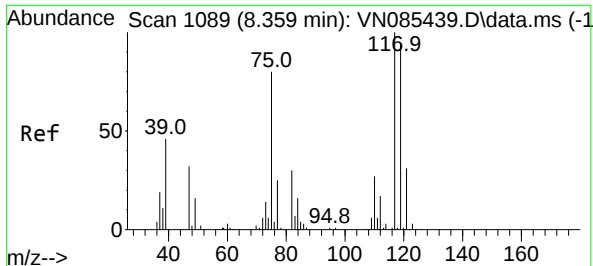
Ion Ratio Lower Upper

43 100

61 6.1 10.9 16.3#

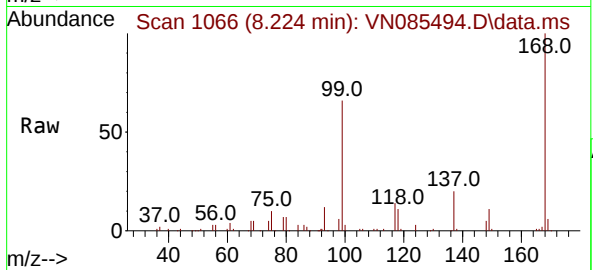
70 2.4 7.5 11.3#



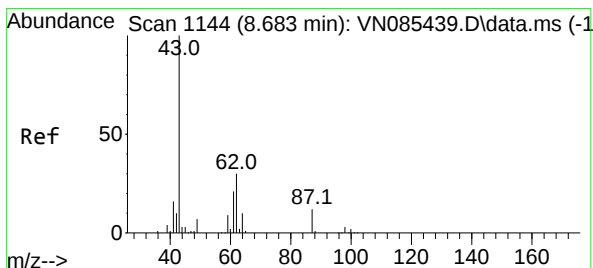
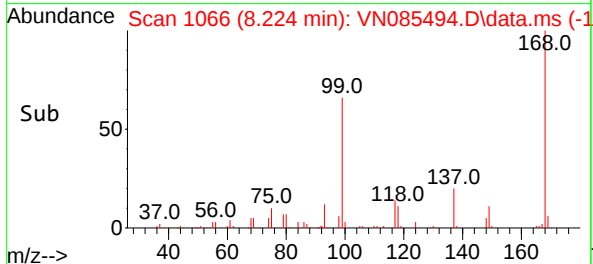
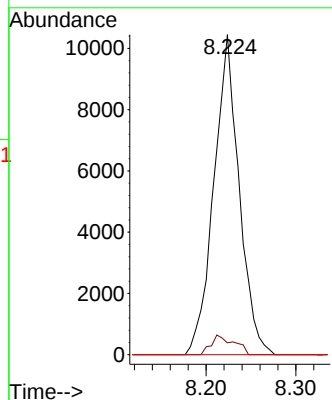


#38  
Carbon Tetrachloride  
Concen: 5.426 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :

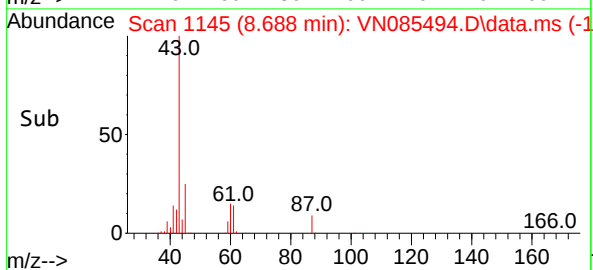
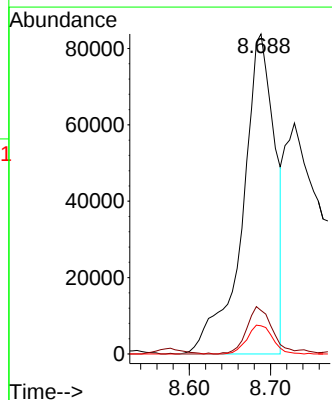
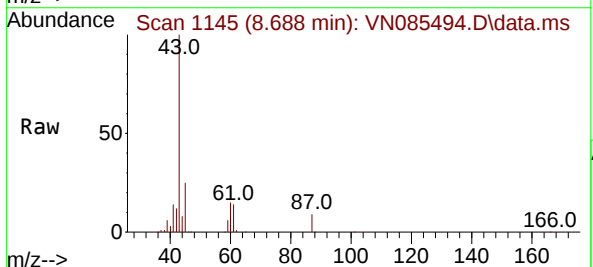


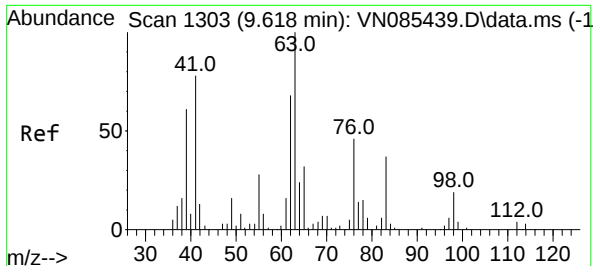
Tgt Ion:117 Resp: 20450  
Ion Ratio Lower Upper  
117 100  
119 3.7 75.4 113.2#  
121 0.0 24.6 37.0#



#43  
Isopropyl Acetate  
Concen: 43.835 ug/l  
RT: 8.688 min Scan# 1145  
Delta R.T. 0.006 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

Tgt Ion: 43 Resp: 233385  
Ion Ratio Lower Upper  
43 100  
61 12.1 20.7 31.1#  
87 7.1 9.8 14.8#





#45

1,2-Dichloropropane

Concen: 0.549 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN085494.D

Acq: 17 Jan 2025 15:36

Instrument :

MSVOA\_N

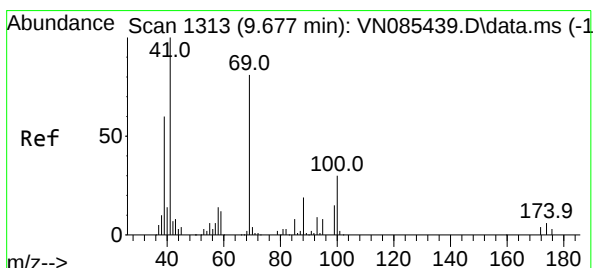
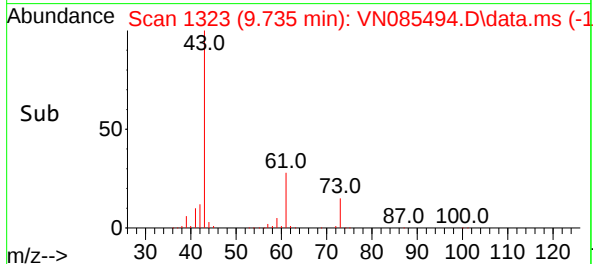
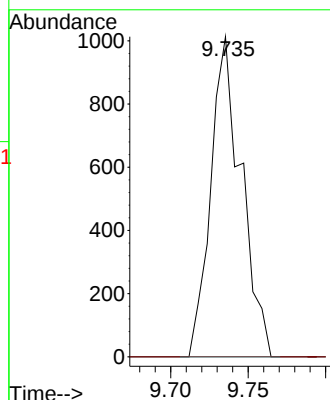
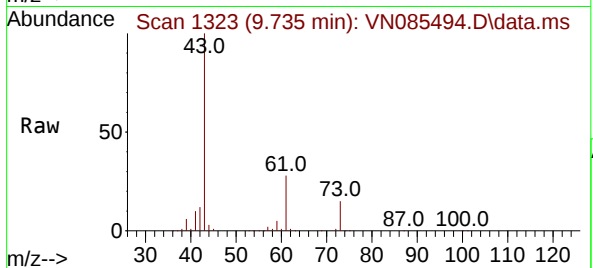
ClientSampleId :

Tgt Ion: 63 Resp: 1388

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 1.672 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN085494.D

Acq: 17 Jan 2025 15:36

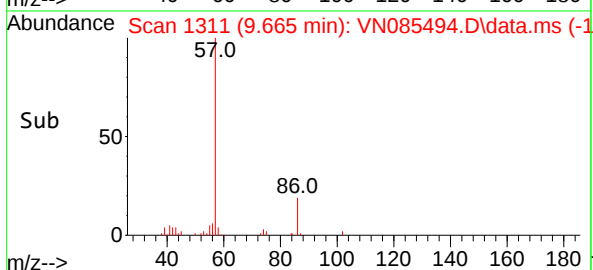
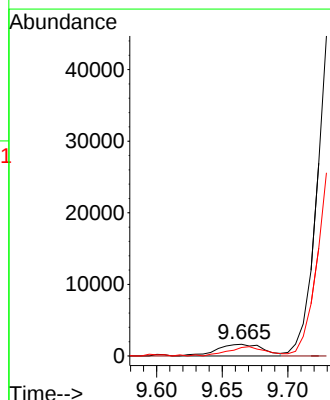
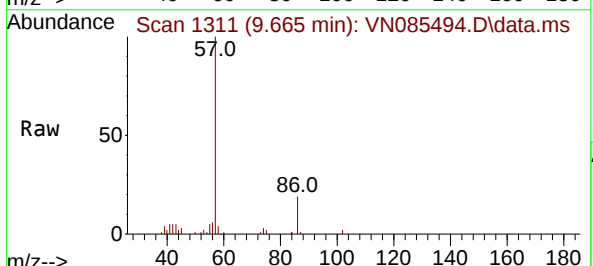
Tgt Ion: 41 Resp: 4006

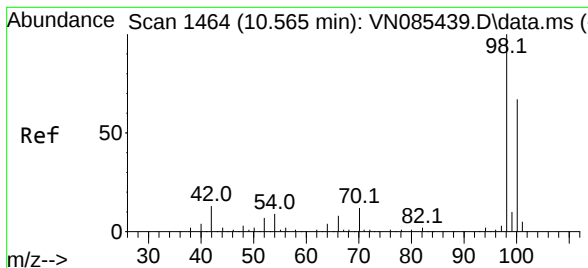
Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

39 66.8 49.0 73.6

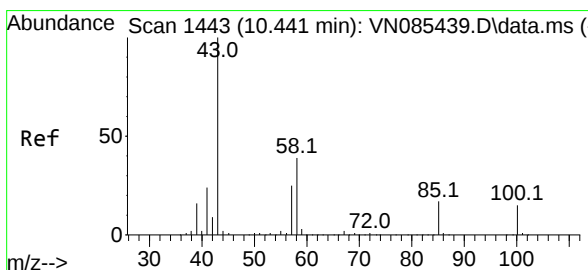
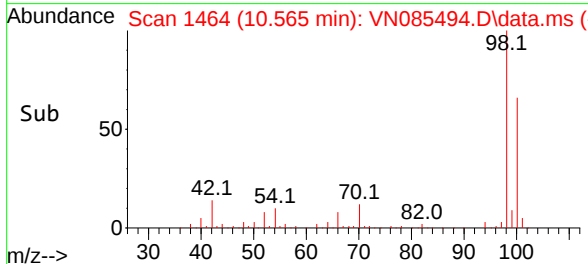
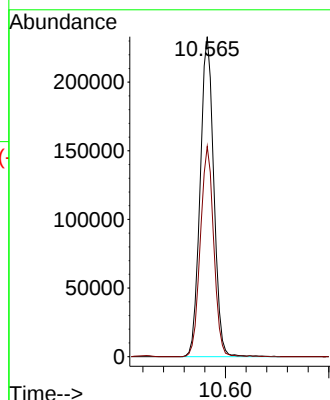
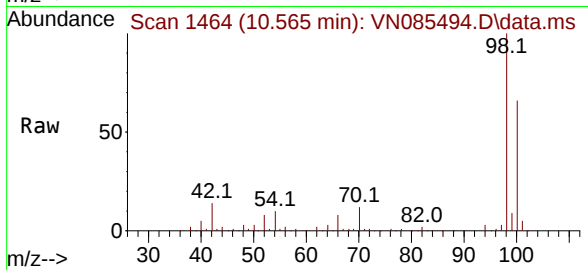




#50  
Toluene-d8  
Concen: 51.083 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

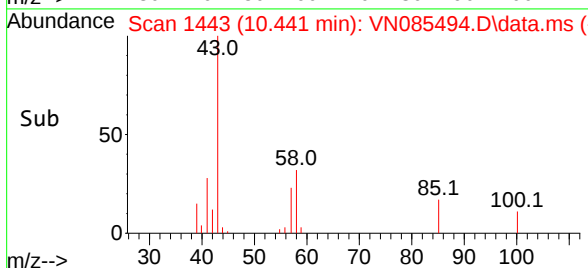
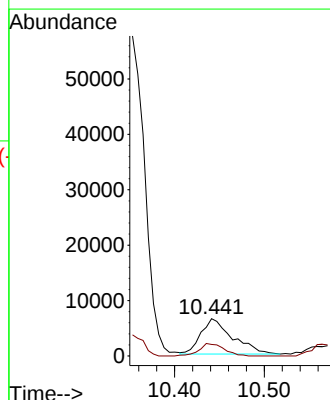
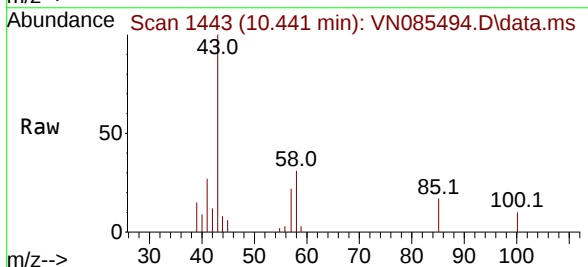
Instrument :  
MSVOA\_N  
ClientSampleId :

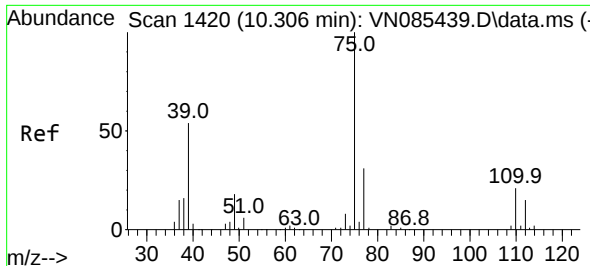
Tgt Ion: 98 Resp: 425716  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.2 78.4



#51  
4-Methyl-2-Pentanone  
Concen: 5.092 ug/l  
RT: 10.441 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

Tgt Ion: 43 Resp: 15731  
Ion Ratio Lower Upper  
43 100  
58 27.6 30.5 45.7#

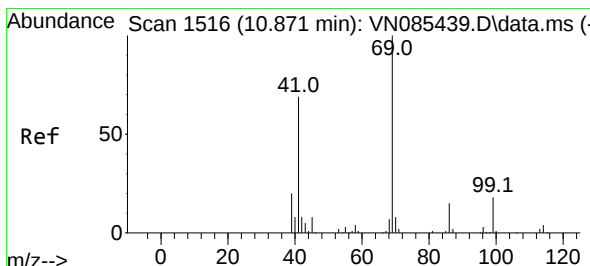
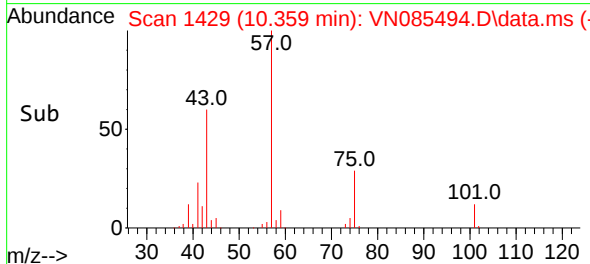
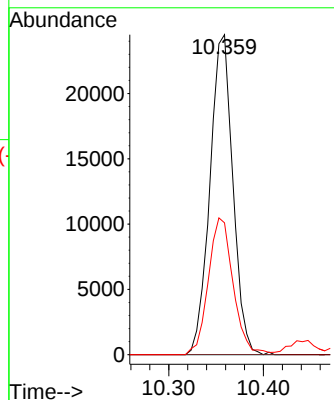
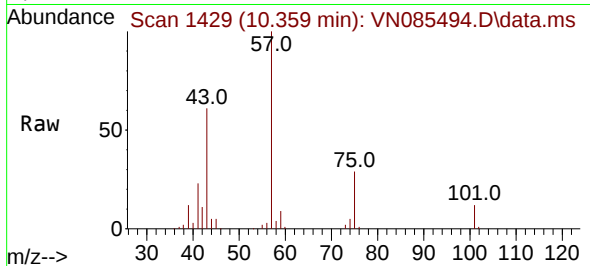




#54  
 cis-1,3-Dichloropropene  
 Concen: 10.991 ug/l  
 RT: 10.359 min Scan# 1429  
 Delta R.T. 0.053 min  
 Lab File: VN085494.D  
 Acq: 17 Jan 2025 15:36

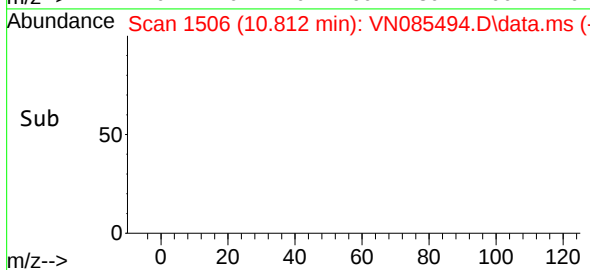
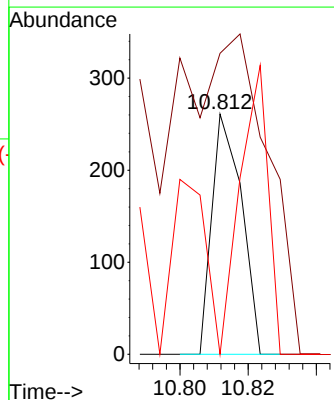
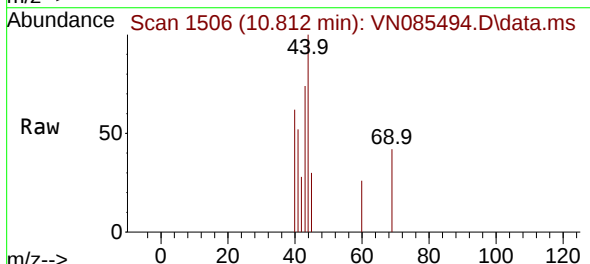
Instrument :  
 MSVOA\_N  
 ClientSampleId :

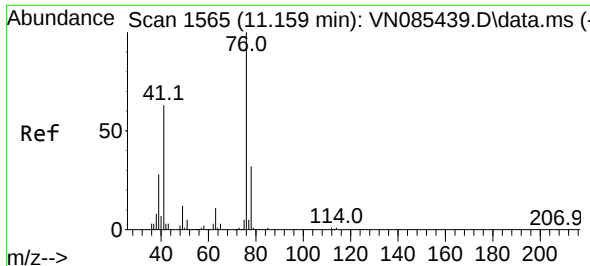
Tgt Ion: 75 Resp: 41208  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.0 37.4#  
 39 41.2 43.1 64.7#



#56  
 Ethyl methacrylate  
 Concen: 1.971 ug/l  
 RT: 10.812 min Scan# 1506  
 Delta R.T. -0.059 min  
 Lab File: VN085494.D  
 Acq: 17 Jan 2025 15:36

Tgt Ion: 69 Resp: 158  
 Ion Ratio Lower Upper  
 69 100  
 41 0.0 54.6 82.0#  
 39 0.0 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.305 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN085494.D

Acq: 17 Jan 2025 15:36

Instrument :

MSVOA\_N

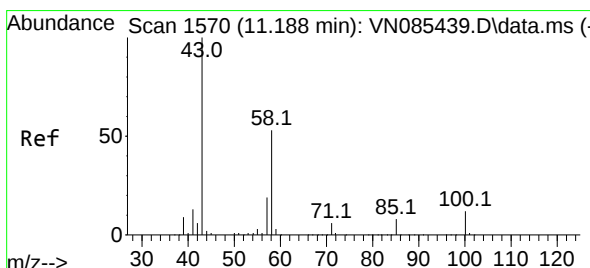
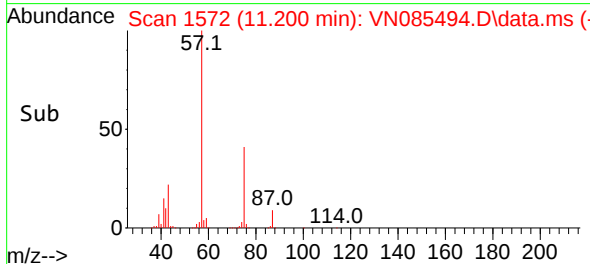
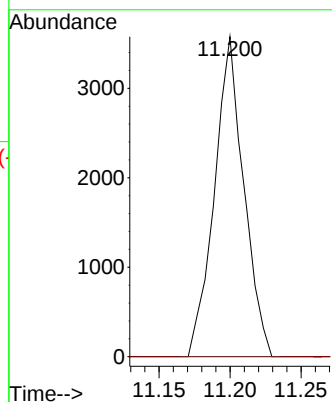
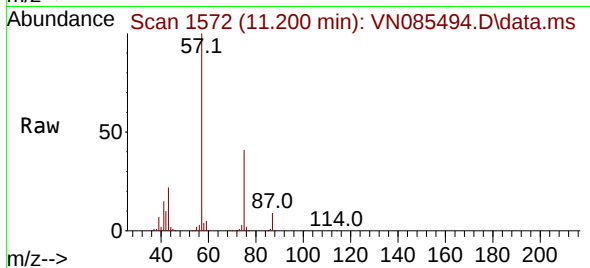
ClientSampleId :

Tgt Ion: 76 Resp: 5146

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 54.249 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.018 min

Lab File: VN085494.D

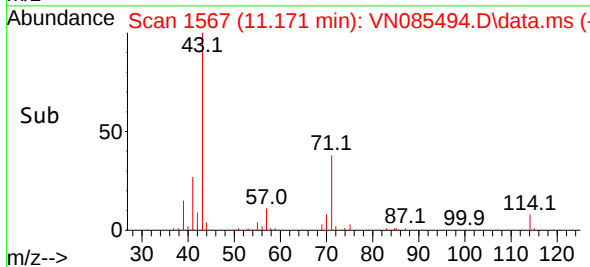
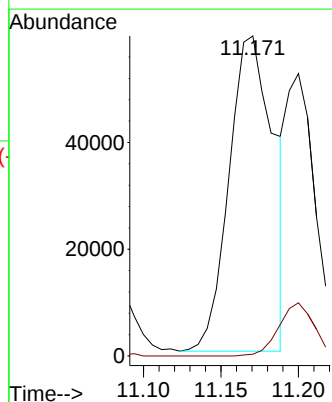
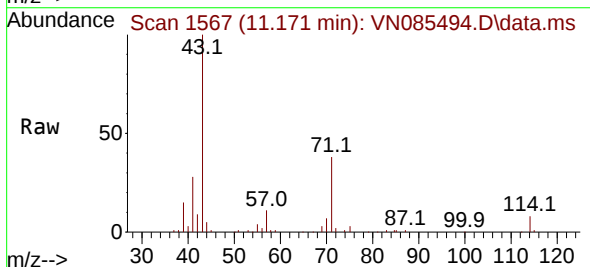
Acq: 17 Jan 2025 15:36

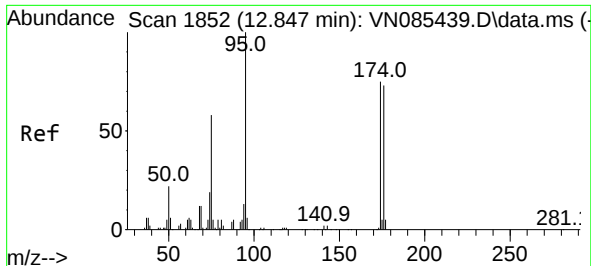
Tgt Ion: 43 Resp: 117933

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.6#

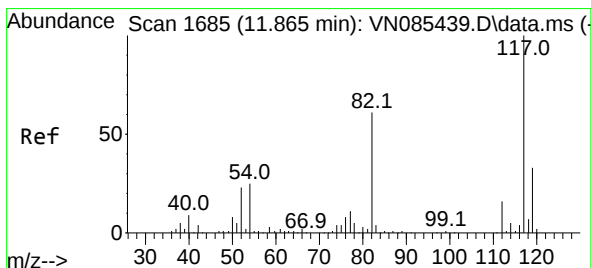
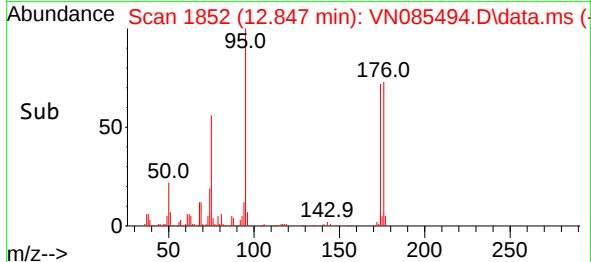
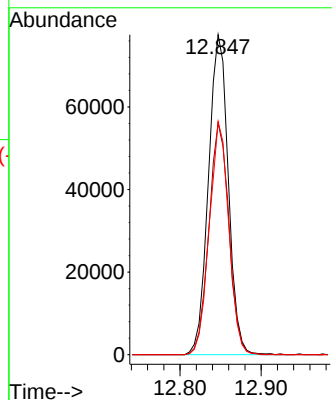
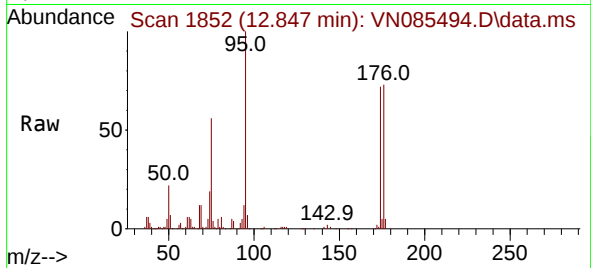




#62  
4-Bromofluorobenzene  
Concen: 46.020 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

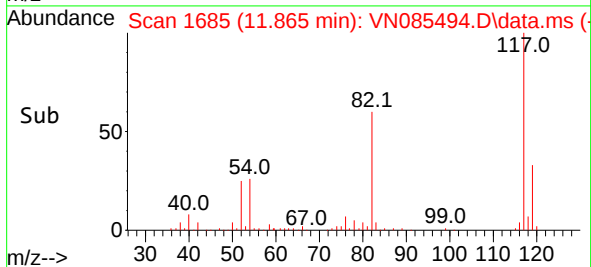
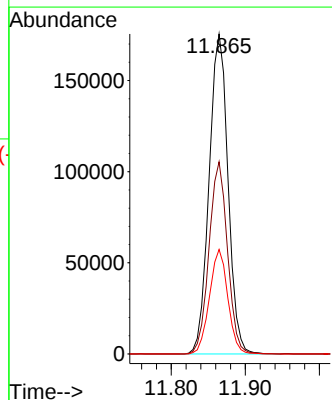
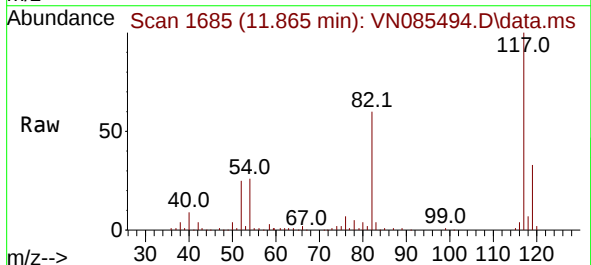
Instrument :  
MSVOA\_N  
ClientSampleId :

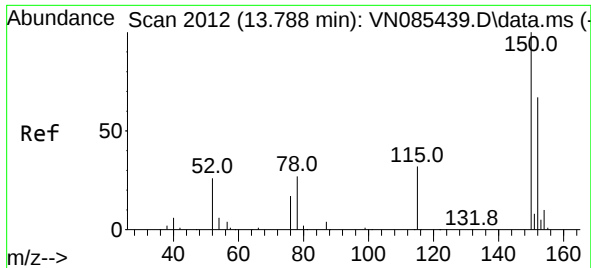
Tgt Ion: 95 Resp: 131193  
Ion Ratio Lower Upper  
95 100  
174 73.1 0.0 145.0  
176 71.4 0.0 142.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

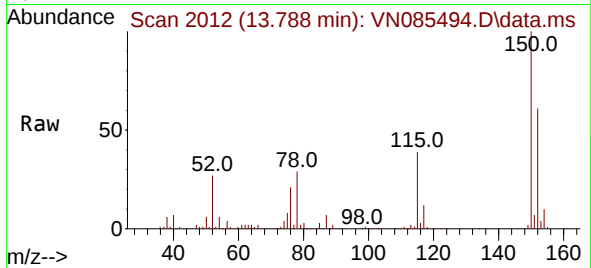
Tgt Ion: 117 Resp: 310797  
Ion Ratio Lower Upper  
117 100  
82 60.1 48.6 72.8  
119 32.6 26.6 39.8



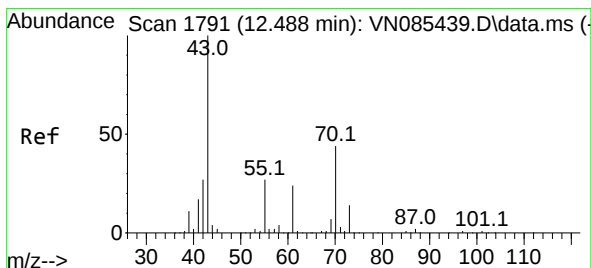
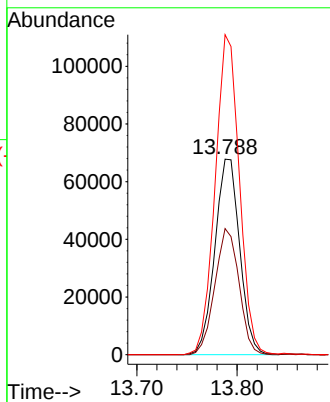
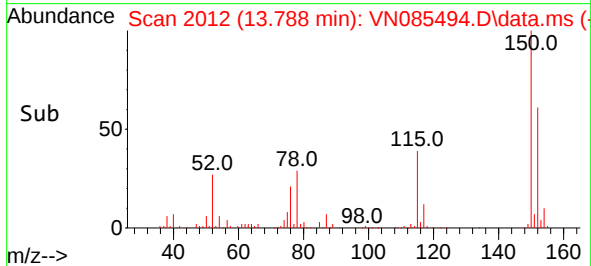


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

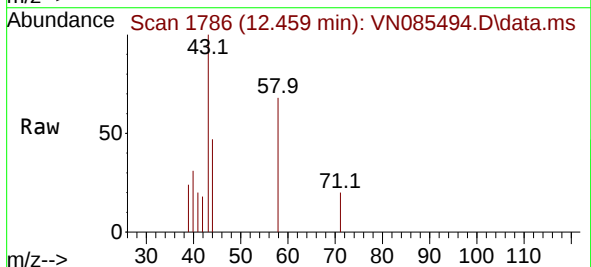
Instrument :  
MSVOA\_N  
ClientSampleId :



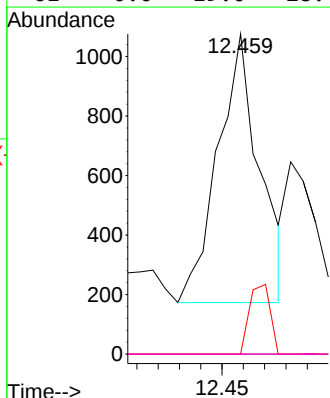
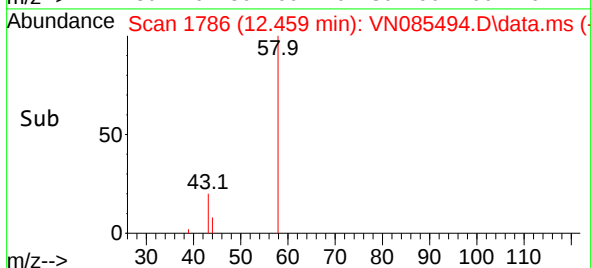
Tgt Ion:152 Resp: 116685  
Ion Ratio Lower Upper  
152 100  
115 62.7 31.1 93.3  
150 159.3 0.0 343.6

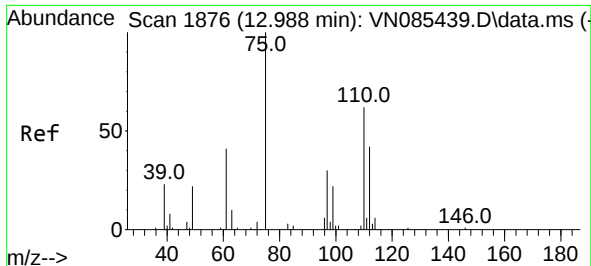


#74  
N-ethyl acetate  
Concen: 0.345 ug/l  
RT: 12.459 min Scan# 1786  
Delta R.T. -0.029 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36



Tgt Ion: 43 Resp: 1222  
Ion Ratio Lower Upper  
43 100  
70 0.0 34.0 51.0#  
55 13.0 21.4 32.2#  
61 0.0 19.0 28.4#

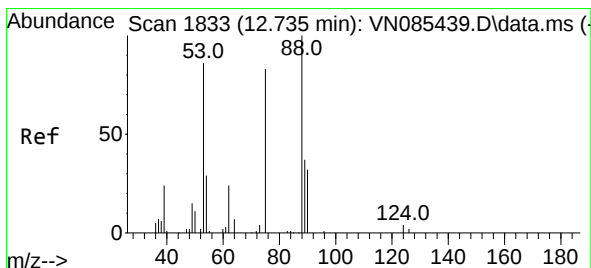
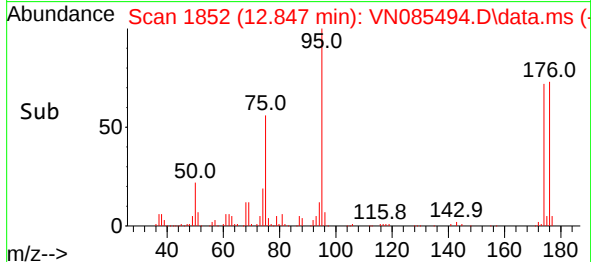
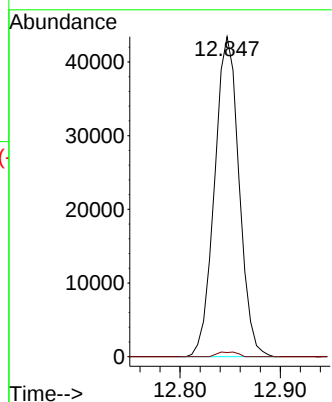
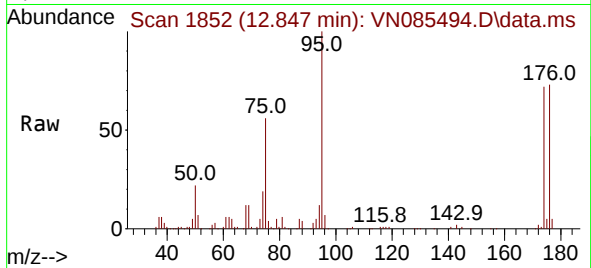




#76  
1,2,3-Trichloropropane  
Concen: 31.118 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 73802  
Ion Ratio Lower Upper  
75 100  
77 1.2 109.7 329.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 84.193 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN085494.D  
Acq: 17 Jan 2025 15:36

Tgt Ion: 75 Resp: 73802  
Ion Ratio Lower Upper  
75 100  
53 0.1 95.6 143.4#  
89 0.0 37.0 55.6#

