

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020725\  
 Data File : VN085707.D  
 Acq On : 07 Feb 2025 19:29  
 Operator : JC\MD  
 Sample : Q1299-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 07 22:36:19 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

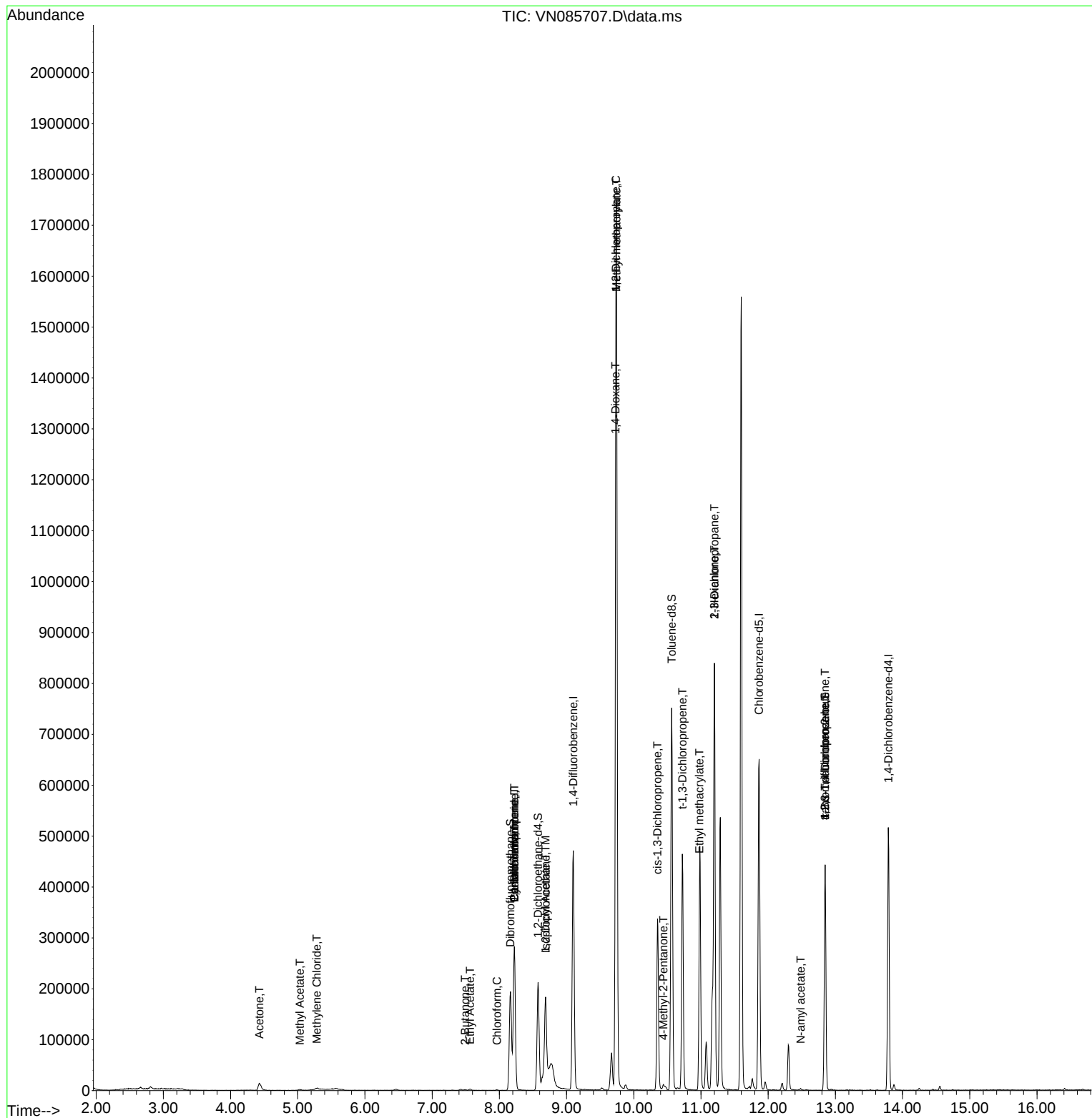
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168            | 192305   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114            | 401753   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117            | 379324   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152            | 136382   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65             | 171804   | 55.346     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | = 110.700% |        |          |
| 35) Dibromofluoromethane      | 8.165  | 113            | 140011   | 50.234     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 100.460% |        |          |
| 50) Toluene-d8                | 10.565 | 98             | 518577   | 52.367     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | = 104.740% |        |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95             | 149428   | 44.112     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 77 - 121 | Recovery | = 88.220%  |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            |        | Qvalue   |
| 16) Acetone                   | 4.430  | 43             | 26282    | 26.204     | ug/l   | 93       |
| 18) Methyl Acetate            | 5.030  | 43             | 3410     | 1.118      | ug/l # | 81       |
| 20) Methylene Chloride        | 5.283  | 84             | 2139     | 0.861      | ug/l # | 49       |
| 25) 2-Butanone                | 7.489  | 43             | 2555     | 1.731      | ug/l   | 96       |
| 30) Chloroform                | 7.965  | 83             | 1146     | 0.245      | ug/l   | 87       |
| 31) Cyclohexane               | 8.224  | 56             | 4833     | 1.227      | ug/l # | 21       |
| 36) 1,1-Dichloropropene       | 8.224  | 75             | 18152    | 4.640      | ug/l # | 50       |
| 37) Ethyl Acetate             | 7.565  | 43             | 3934     | 0.996      | ug/l # | 85       |
| 38) Carbon Tetrachloride      | 8.224  | 117            | 20738    | 4.631      | ug/l # | 16       |
| 42) 1,2-Dichloroethane        | 8.688  | 62             | 1275     | 0.288      | ug/l # | 76       |
| 43) Isopropyl Acetate         | 8.688  | 43             | 223336   | 35.301     | ug/l # | 84       |
| 45) 1,2-Dichloropropane       | 9.735  | 63             | 1935     | 0.645      | ug/l # | 43       |
| 48) Methyl methacrylate       | 9.741  | 41             | 162473   | 57.066     | ug/l # | 45       |
| 49) 1,4-Dioxane               | 9.730  | 88             | 208      | 4.338      | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43             | 11412    | 3.108      | ug/l # | 78       |
| 53) t-1,3-Dichloropropene     | 10.724 | 75             | 1319     | 0.316      | ug/l # | 86       |
| 54) cis-1,3-Dichloropropene   | 10.353 | 75             | 57993    | 13.018     | ug/l # | 63       |
| 56) Ethyl methacrylate        | 10.977 | 69             | 3071     | 2.581      | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.200 | 76             | 8562     | 1.827      | ug/l # | 43       |
| 59) 2-Hexanone                | 11.200 | 43             | 113015   | 43.750     | ug/l # | 56       |
| 74) N-amyl acetate            | 12.482 | 43             | 1467     | 0.355      | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75             | 78810    | 28.431     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75             | 78810    | 76.921     | ug/l # | 3        |
| -----                         |        |                |          |            |        |          |

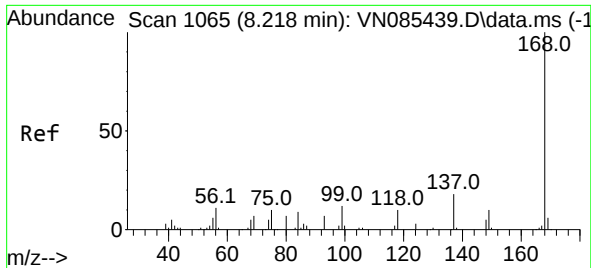
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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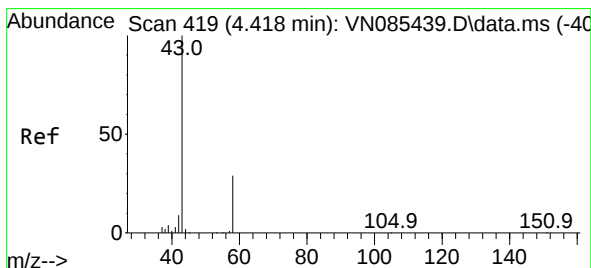
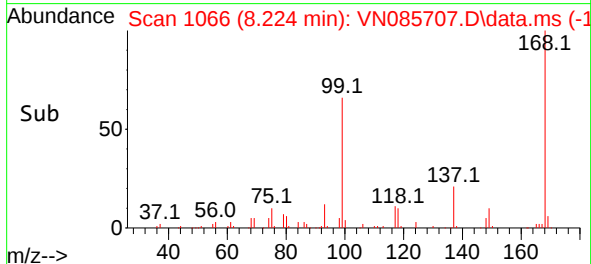
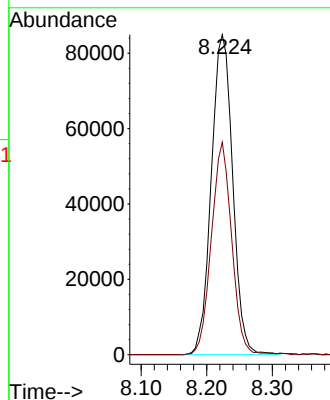
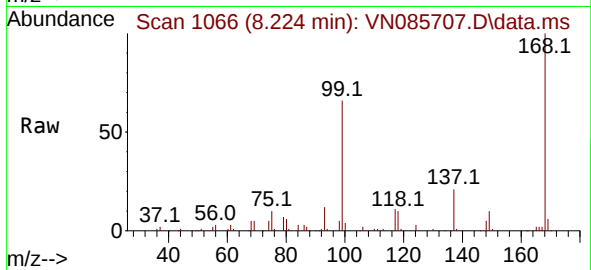




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. 0.006 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

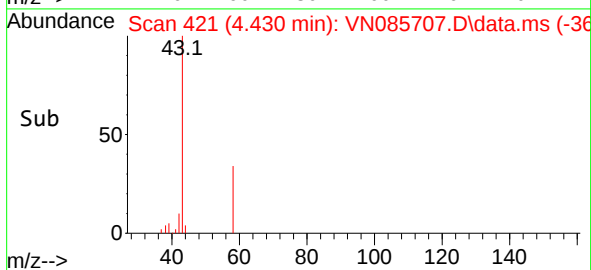
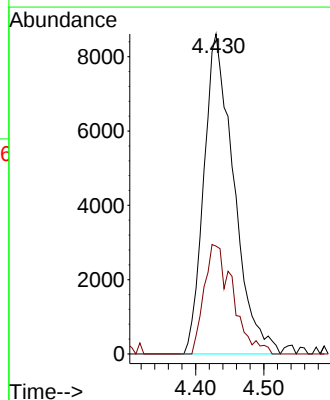
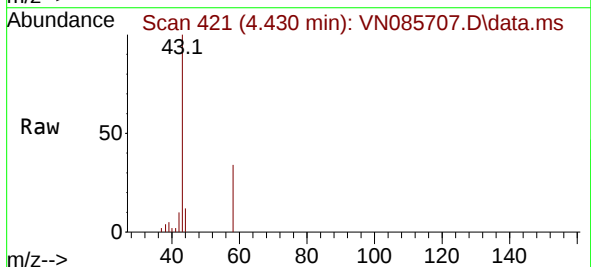
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:168 Resp: 192305  
Ion Ratio Lower Upper  
168 100  
99 66.4 53.6 80.4



#16  
Acetone  
Concen: 26.204 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. 0.012 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

Tgt Ion: 43 Resp: 26282  
Ion Ratio Lower Upper  
43 100  
58 33.7 23.8 35.6





#18

Methyl Acetate

Concen: 1.118 ug/l

RT: 5.030 min Scan# 51

Delta R.T. 0.012 min

Lab File: VN085707.D

Acq: 07 Feb 2025 19:29

Instrument :

MSVOA\_N

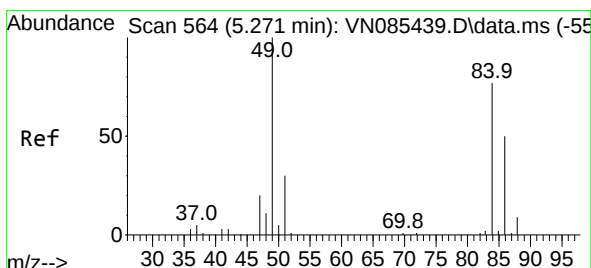
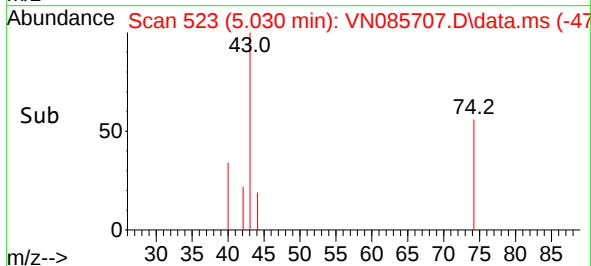
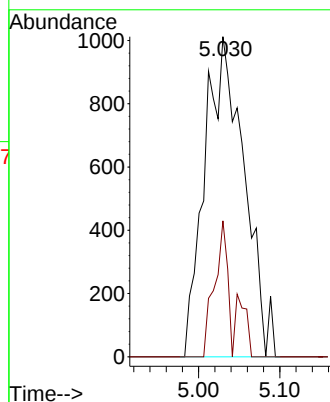
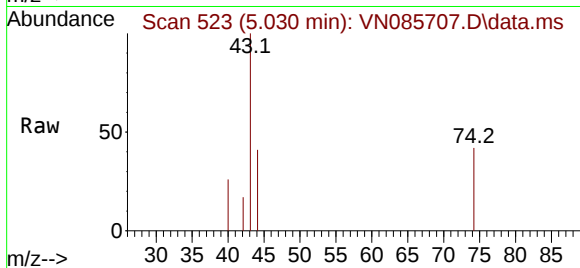
ClientSampleId :

Tgt Ion: 43 Resp: 3410

Ion Ratio Lower Upper

43 100

74 14.1 18.6 28.0#



#20

Methylene Chloride

Concen: 0.861 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.012 min

Lab File: VN085707.D

Acq: 07 Feb 2025 19:29

Tgt Ion: 84 Resp: 2139

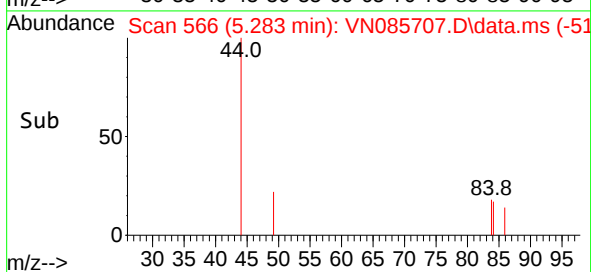
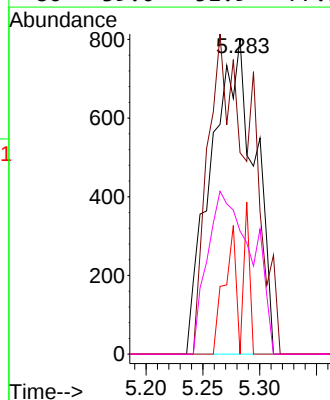
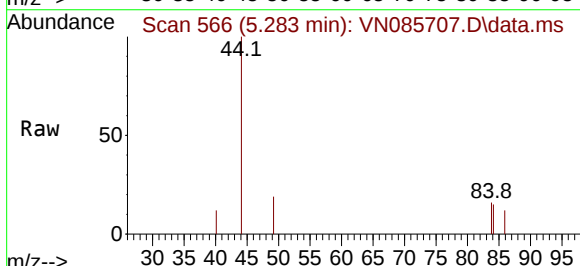
Ion Ratio Lower Upper

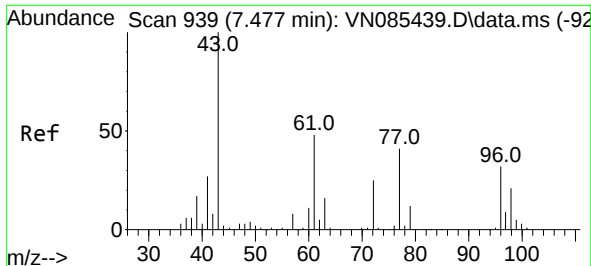
84 100

49 63.8 104.1 156.1#

51 0.0 31.0 46.4#

86 39.0 51.9 77.9#

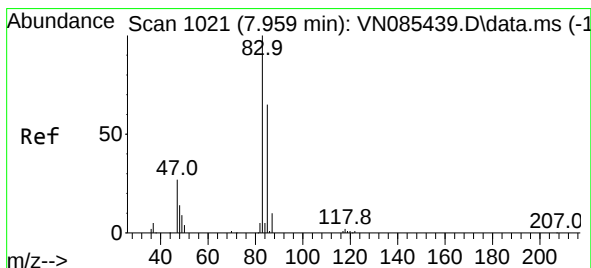
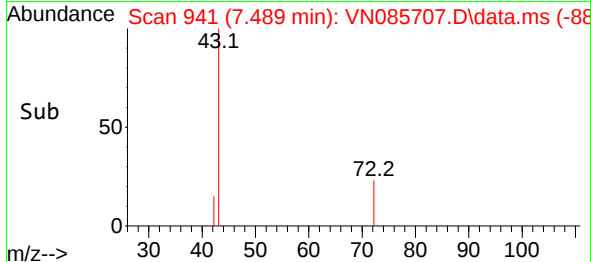
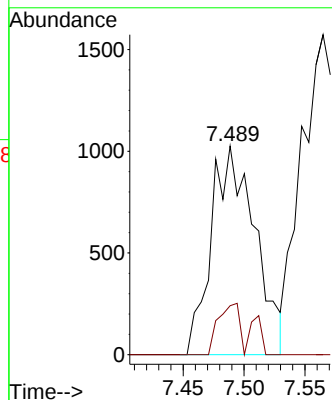
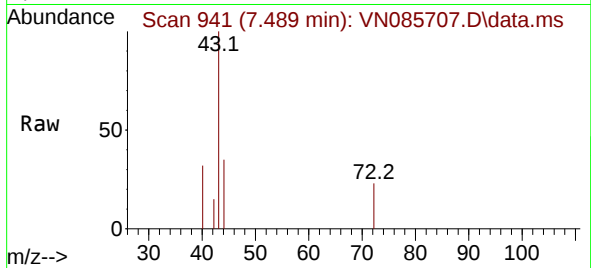




#25  
2-Butanone  
Concen: 1.731 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.012 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

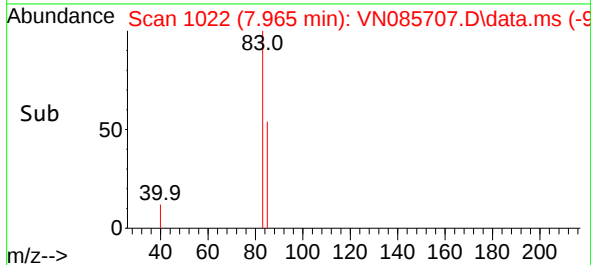
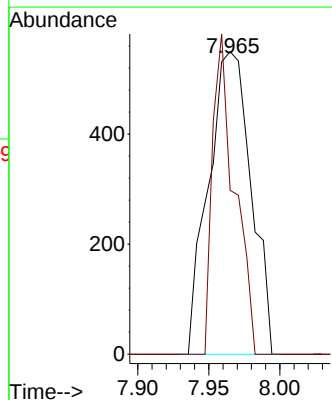
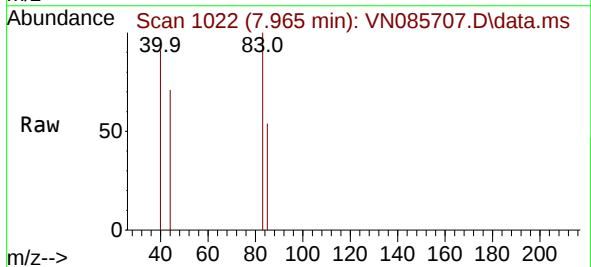
Instrument :  
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ClientSampleId :

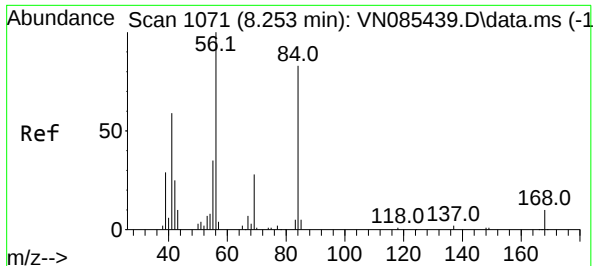
Tgt Ion: 43 Resp: 2555  
Ion Ratio Lower Upper  
43 100  
72 23.5 20.2 30.4



#30  
Chloroform  
Concen: 0.245 ug/l  
RT: 7.965 min Scan# 1022  
Delta R.T. 0.006 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

Tgt Ion: 83 Resp: 1146  
Ion Ratio Lower Upper  
83 100  
85 54.2 51.8 77.6





#31

Cyclohexane

Concen: 1.227 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN085707.D

Acq: 07 Feb 2025 19:29

Instrument :

MSVOA\_N

ClientSampleId :

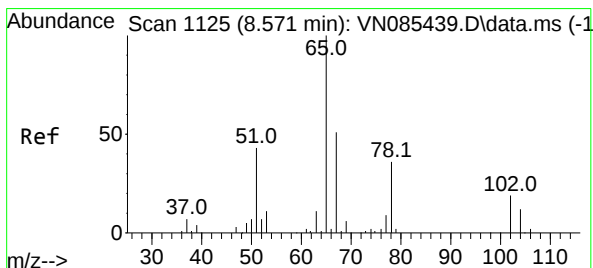
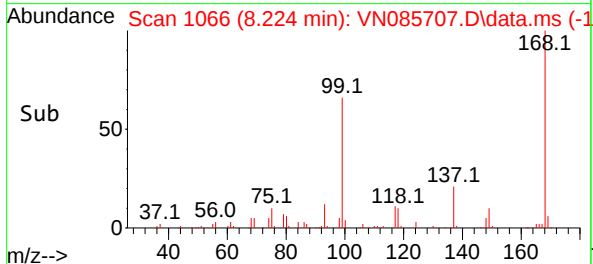
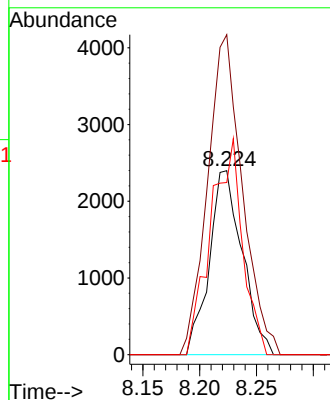
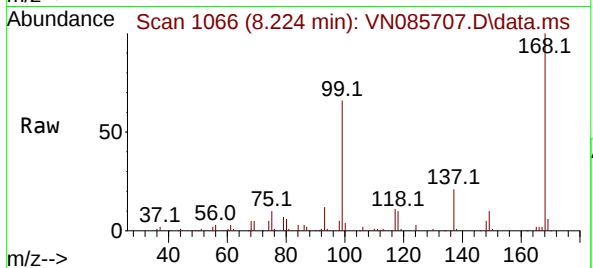
Tgt Ion: 56 Resp: 4833

Ion Ratio Lower Upper

56 100

69 173.9 22.2 33.4#

84 93.6 66.4 99.6



#33

1,2-Dichloroethane-d4

Concen: 55.346 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085707.D

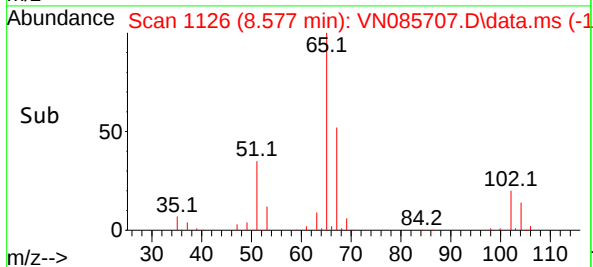
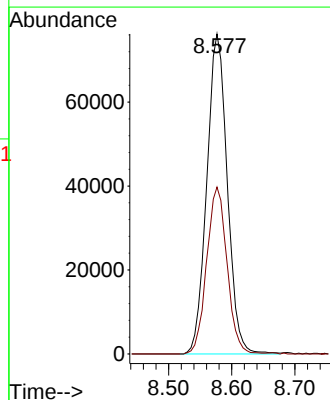
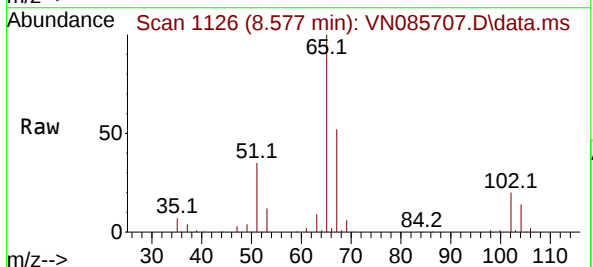
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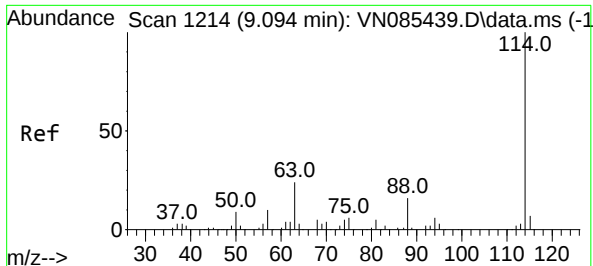
Tgt Ion: 65 Resp: 171804

Ion Ratio Lower Upper

65 100

67 51.7 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: VN085707.D

Acq: 07 Feb 2025 19:29

Instrument :

MSVOA\_N

ClientSampleId :

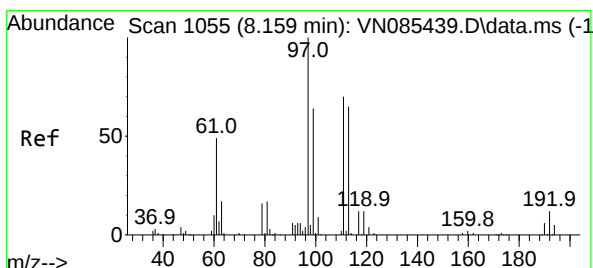
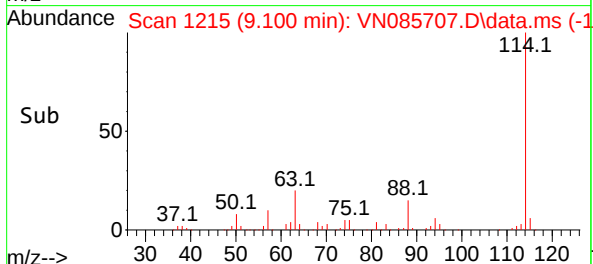
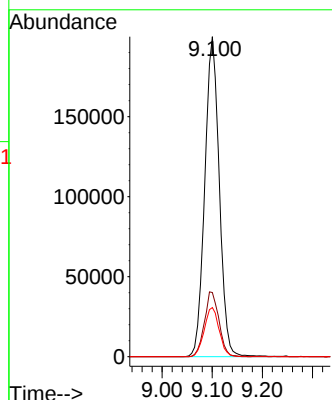
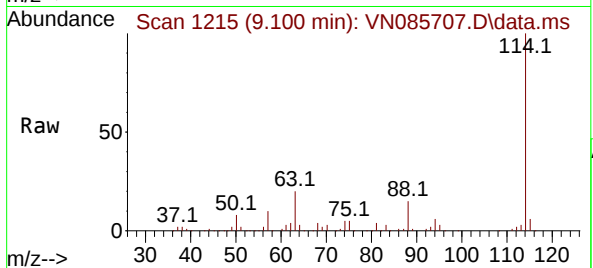
Tgt Ion:114 Resp: 401753

Ion Ratio Lower Upper

114 100

63 20.1 0.0 47.6

88 15.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.234 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085707.D

Acq: 07 Feb 2025 19:29

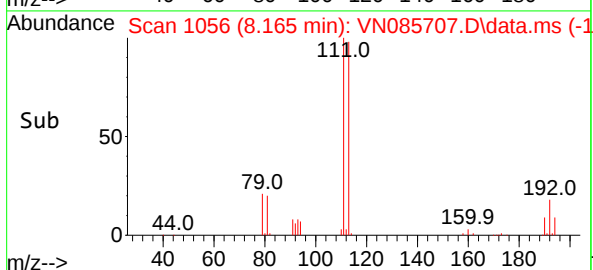
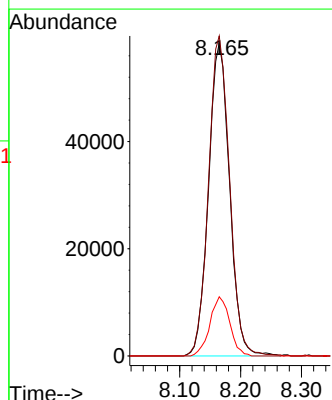
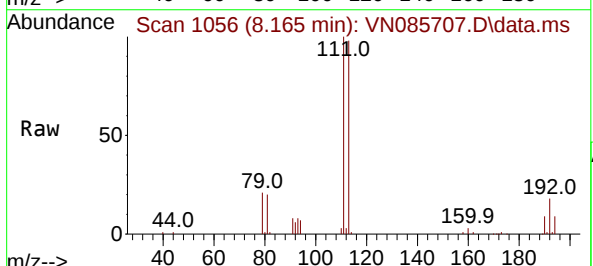
Tgt Ion:113 Resp: 140011

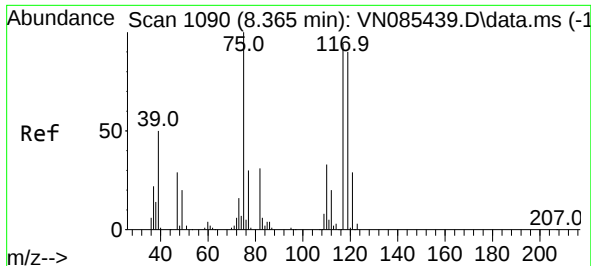
Ion Ratio Lower Upper

113 100

111 102.4 82.7 124.1

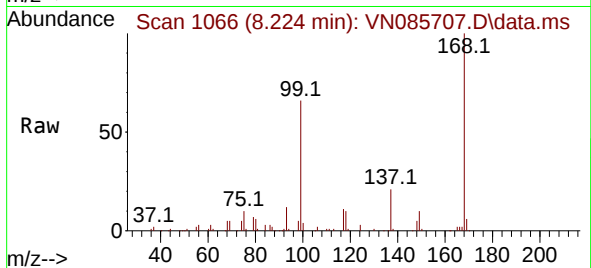
192 17.9 14.3 21.5



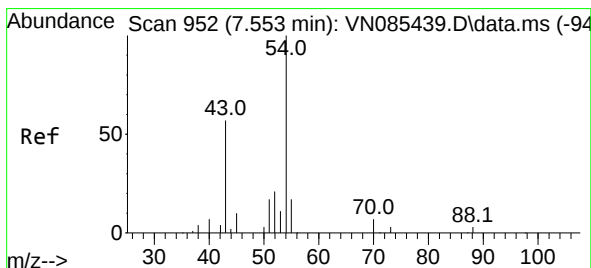
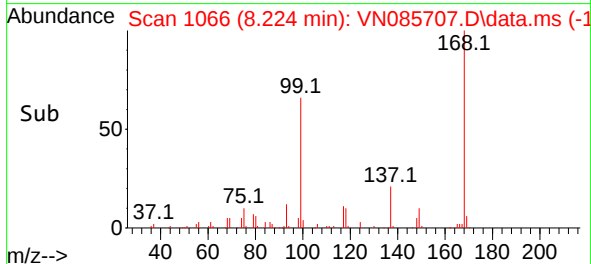
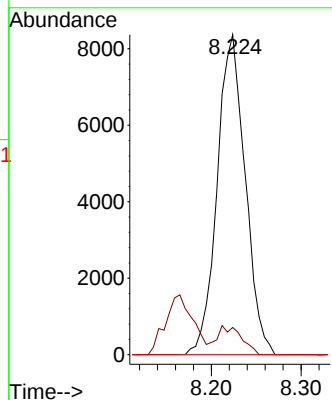


#36  
1,1-Dichloropropene  
Concen: 4.640 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.141 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

Instrument :  
MSVOA\_N  
ClientSampleId :

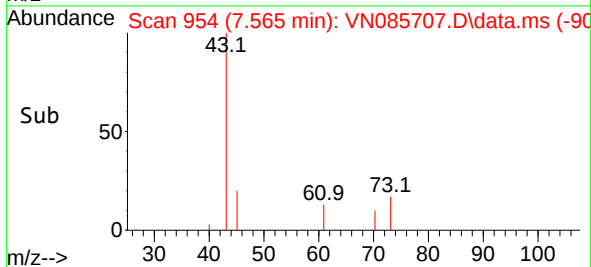
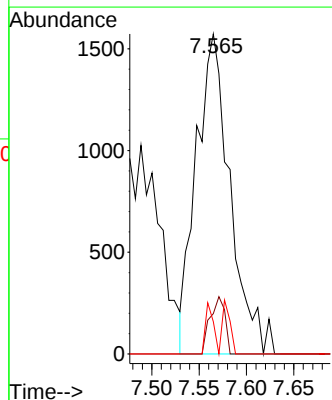
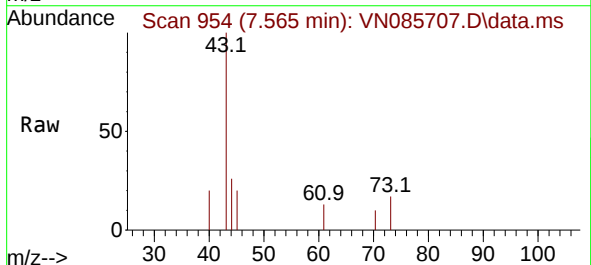


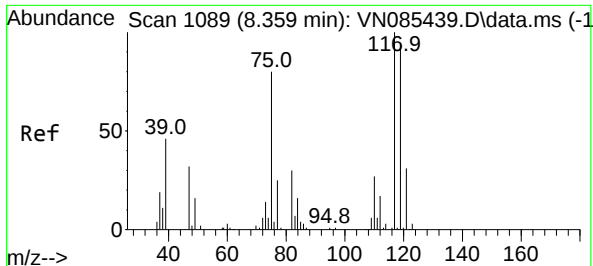
Tgt Ion: 75 Resp: 18152  
Ion Ratio Lower Upper  
75 100  
110 8.1 16.5 49.5#  
77 0.0 24.4 36.6#



#37  
Ethyl Acetate  
Concen: 0.996 ug/l  
RT: 7.565 min Scan# 954  
Delta R.T. 0.012 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

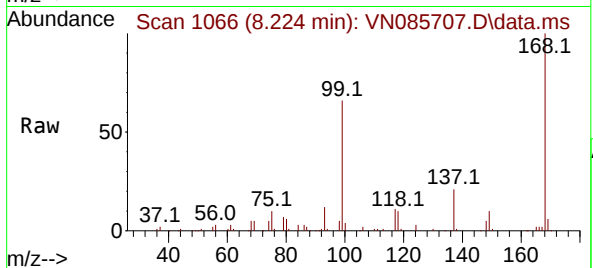
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Ion Ratio Lower Upper  
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61 7.8 10.9 16.3#  
70 3.8 7.5 11.3#



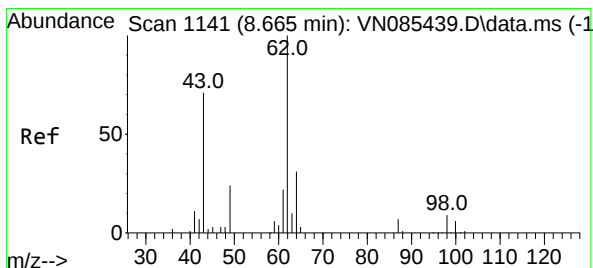
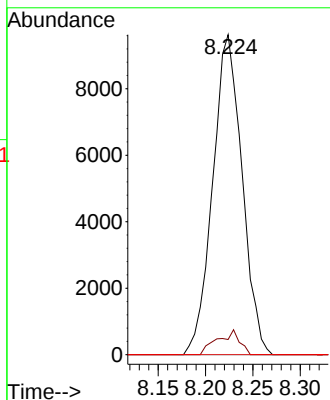
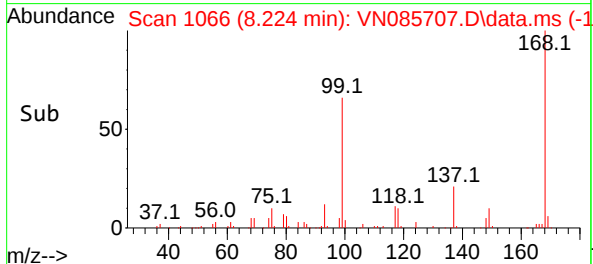


#38  
Carbon Tetrachloride  
Concen: 4.631 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

Instrument :  
MSVOA\_N  
ClientSampleId :

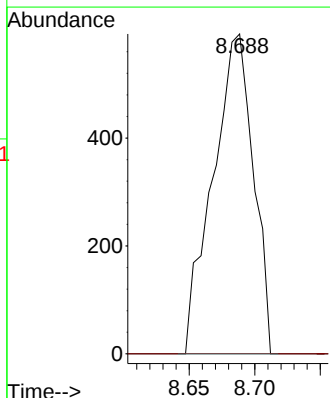
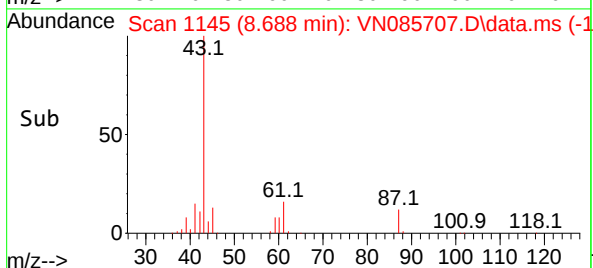
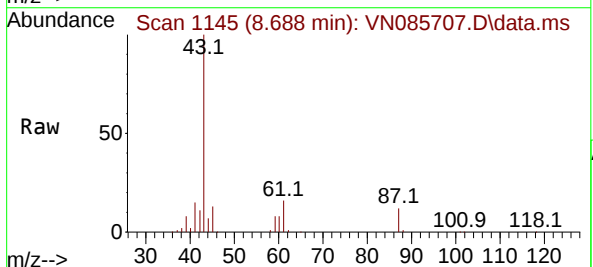


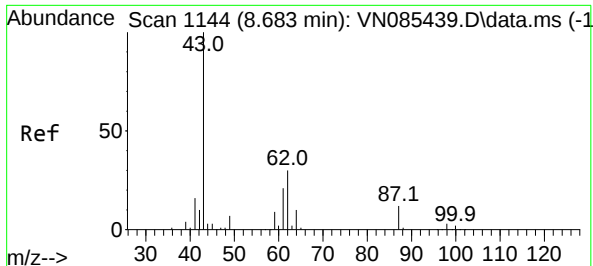
Tgt Ion:117 Resp: 20738  
Ion Ratio Lower Upper  
117 100  
119 4.7 75.4 113.2#  
121 0.0 24.6 37.0#



#42  
1,2-Dichloroethane  
Concen: 0.288 ug/l  
RT: 8.688 min Scan# 1145  
Delta R.T. 0.024 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

Tgt Ion: 62 Resp: 1275  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 17.0

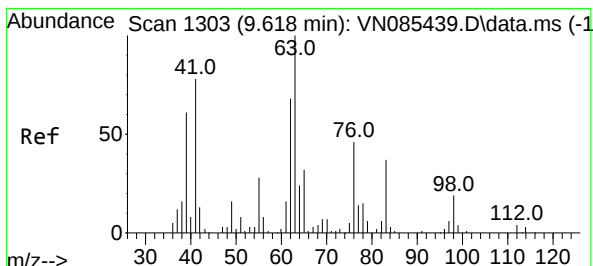
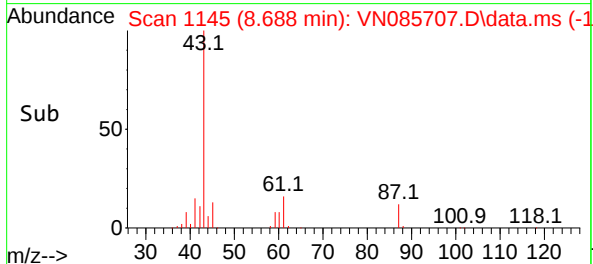
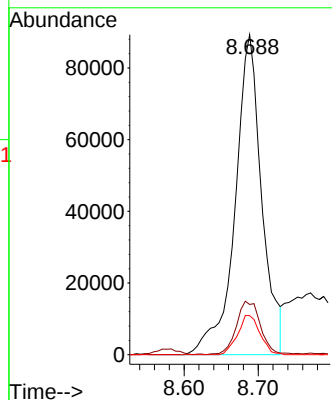
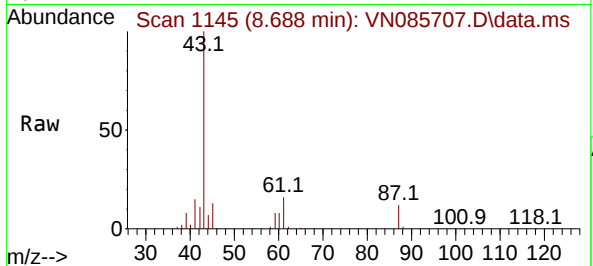




#43  
Isopropyl Acetate  
Concen: 35.301 ug/l  
RT: 8.688 min Scan# 1144  
Delta R.T. 0.006 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

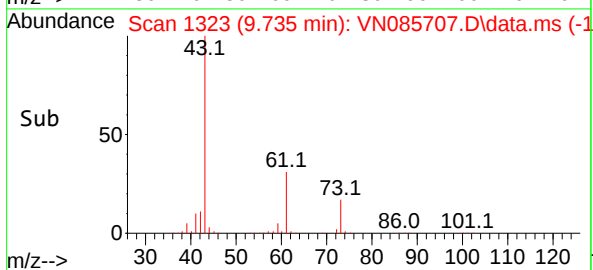
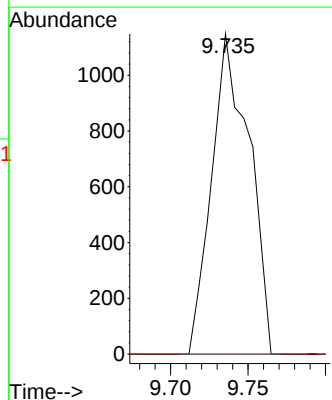
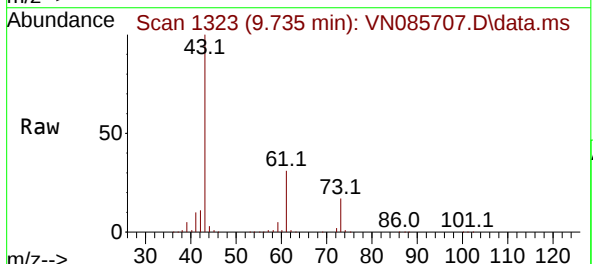
Instrument :  
MSVOA\_N  
ClientSampleId :

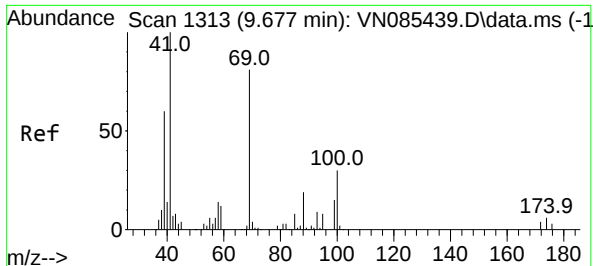
Tgt Ion: 43 Resp: 223336  
Ion Ratio Lower Upper  
43 100  
61 15.3 20.7 31.1#  
87 10.3 9.8 14.8



#45  
1,2-Dichloropropane  
Concen: 0.645 ug/l  
RT: 9.735 min Scan# 1323  
Delta R.T. 0.118 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

Tgt Ion: 63 Resp: 1935  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.6 38.4#





#48

Methyl methacrylate

Concen: 57.066 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.064 min

Lab File: VN085707.D

Acq: 07 Feb 2025 19:29

Instrument :

MSVOA\_N

ClientSampleId :

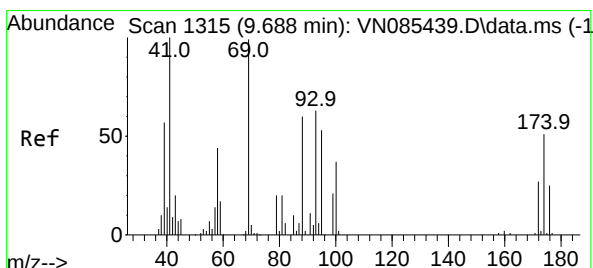
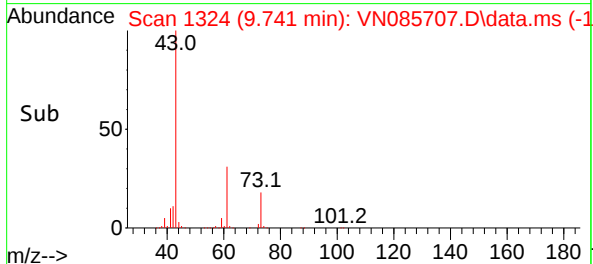
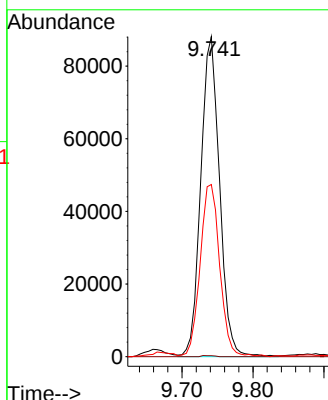
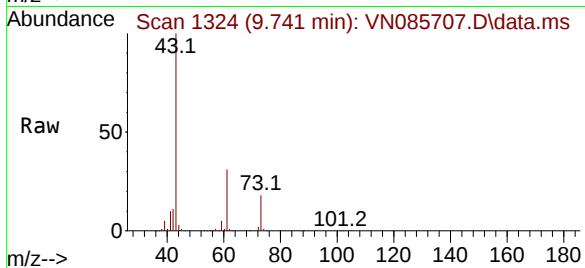
Tgt Ion: 41 Resp: 162473

Ion Ratio Lower Upper

41 100

69 0.2 64.7 97.1#

39 56.2 49.0 73.6



#49

1,4-Dioxane

Concen: 4.338 ug/l

RT: 9.730 min Scan# 1322

Delta R.T. 0.041 min

Lab File: VN085707.D

Acq: 07 Feb 2025 19:29

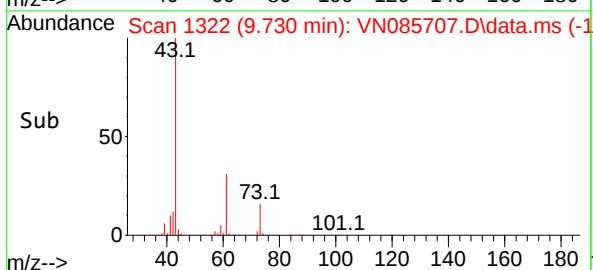
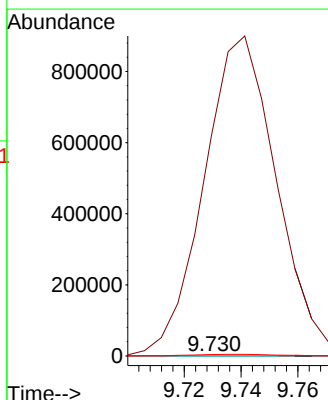
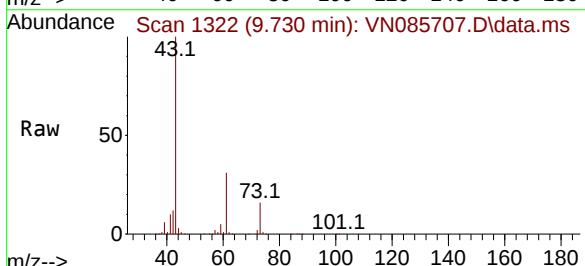
Tgt Ion: 88 Resp: 208

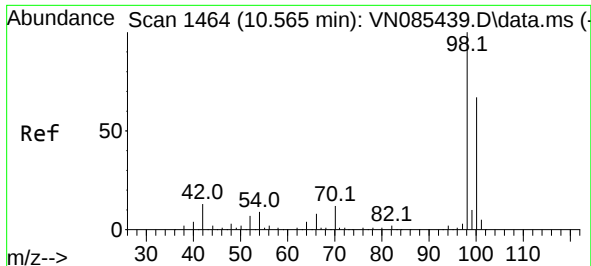
Ion Ratio Lower Upper

88 100

43 772191.3 26.6 39.8#

58 4670.7 59.5 89.3#

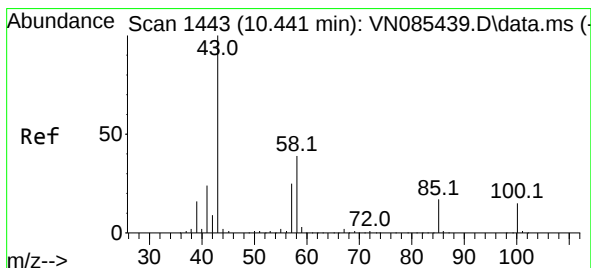
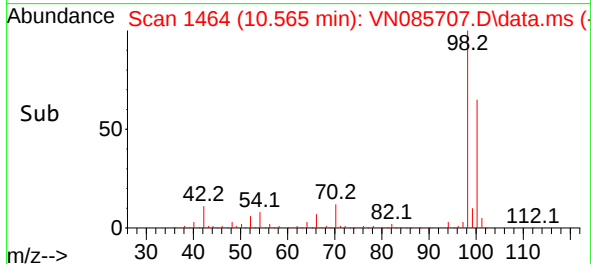
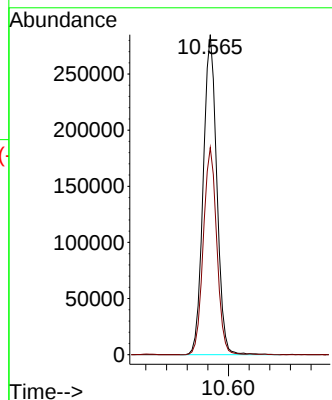
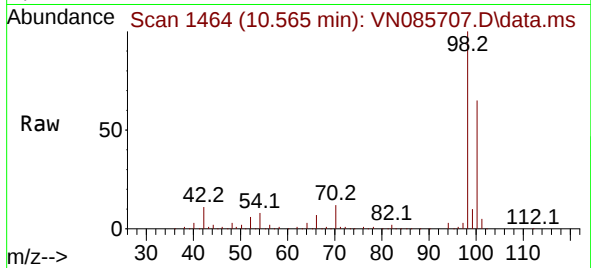




#50  
Toluene-d8  
Concen: 52.367 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

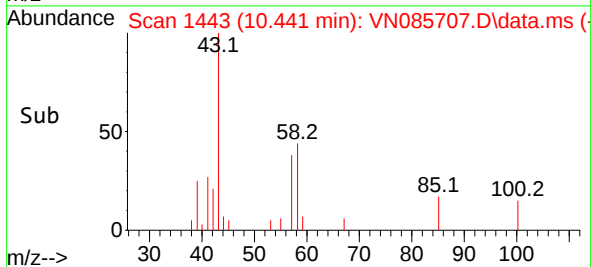
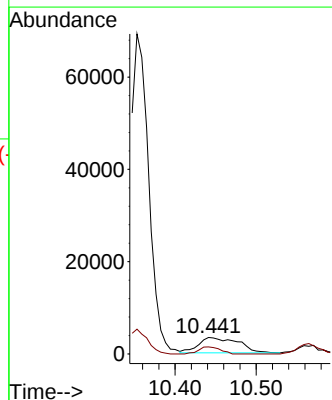
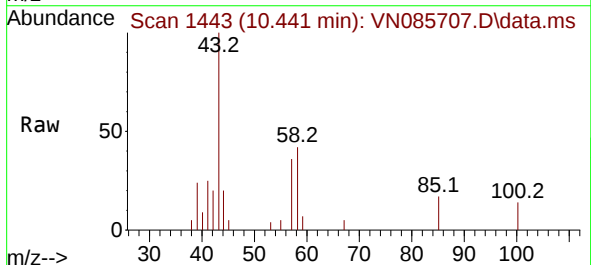
Instrument :  
MSVOA\_N  
ClientSampleId :

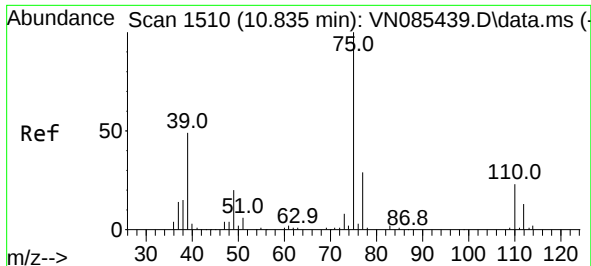
Tgt Ion: 98 Resp: 518577  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.2 78.4



#51  
4-Methyl-2-Pentanone  
Concen: 3.108 ug/l  
RT: 10.441 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

Tgt Ion: 43 Resp: 11412  
Ion Ratio Lower Upper  
43 100  
58 24.9 30.5 45.7#

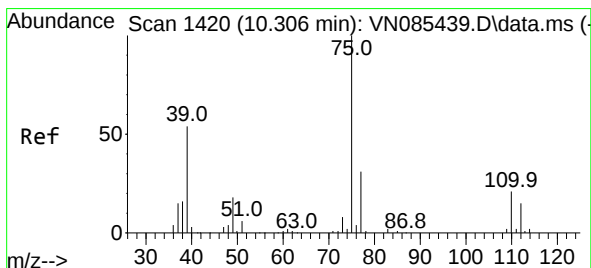
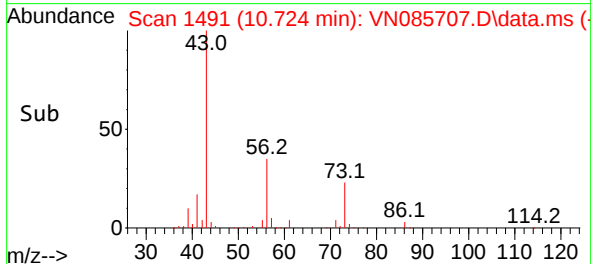
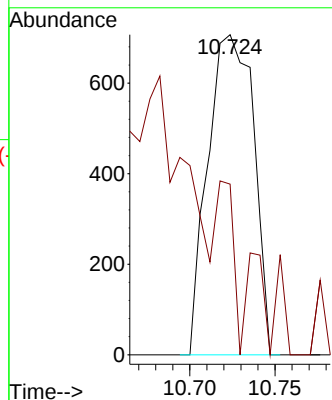
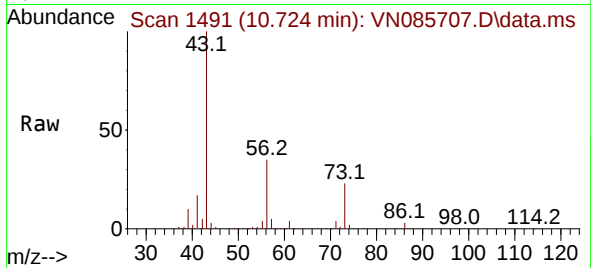




#53  
 t-1,3-Dichloropropene  
 Concen: 0.316 ug/l  
 RT: 10.724 min Scan# 1491  
 Delta R.T. -0.112 min  
 Lab File: VN085707.D  
 Acq: 07 Feb 2025 19:29

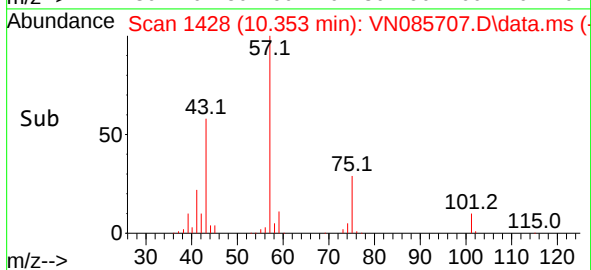
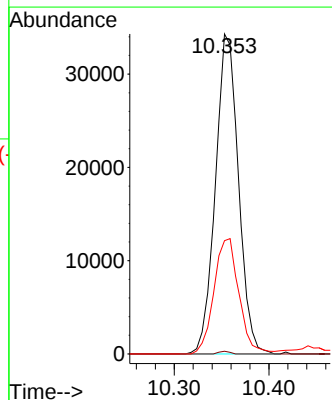
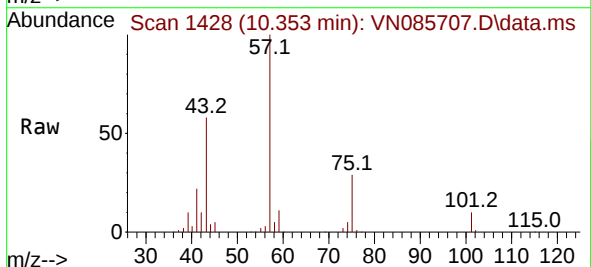
Instrument :  
 MSVOA\_N  
 ClientSampleId :

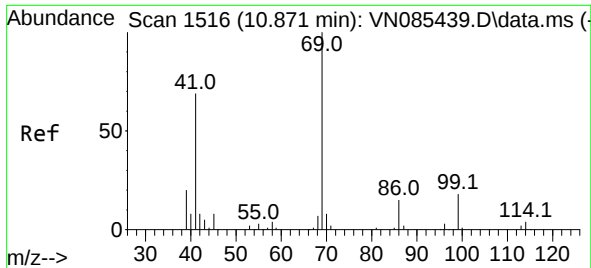
Tgt Ion: 75 Resp: 1319  
 Ion Ratio Lower Upper  
 75 100  
 77 22.1 23.5 35.3#



#54  
 cis-1,3-Dichloropropene  
 Concen: 13.018 ug/l  
 RT: 10.353 min Scan# 1428  
 Delta R.T. 0.047 min  
 Lab File: VN085707.D  
 Acq: 07 Feb 2025 19:29

Tgt Ion: 75 Resp: 57993  
 Ion Ratio Lower Upper  
 75 100  
 77 0.8 25.0 37.4#  
 39 35.4 43.1 64.7#

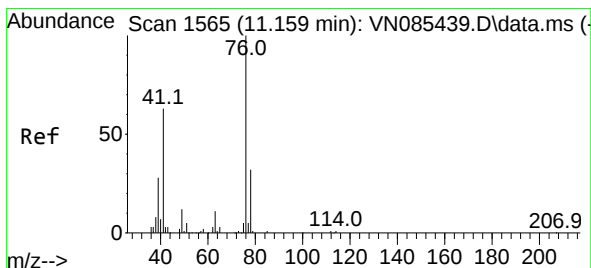
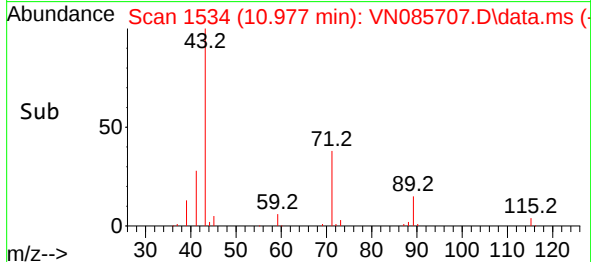
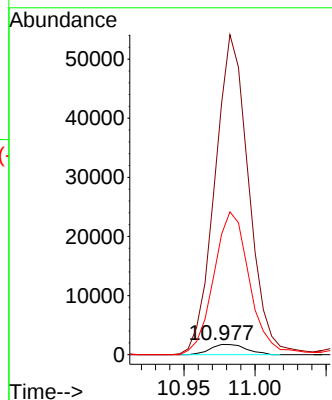
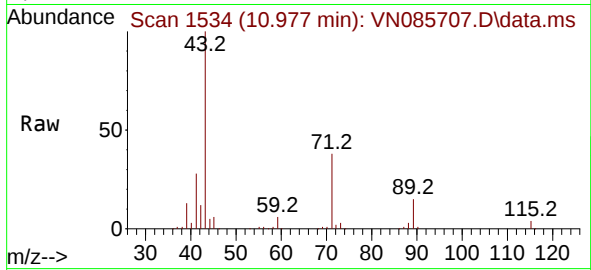




#56  
Ethyl methacrylate  
Concen: 2.581 ug/l  
RT: 10.977 min Scan# 1534  
Delta R.T. 0.105 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

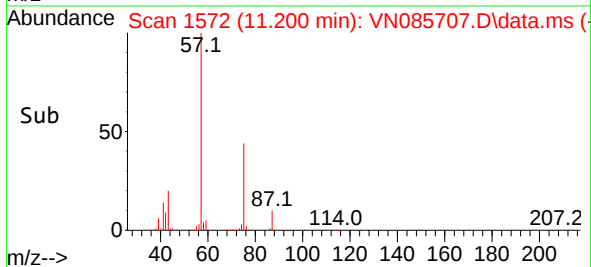
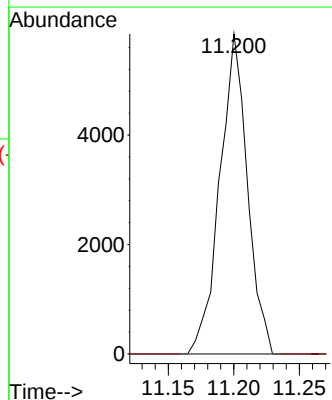
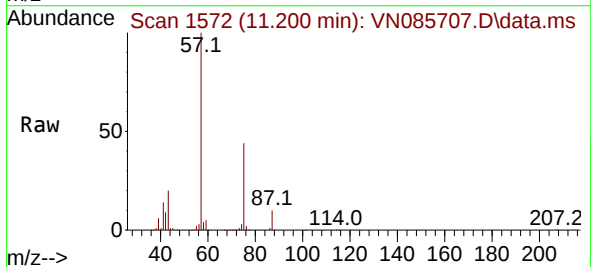
Instrument :  
MSVOA\_N  
ClientSampleId :

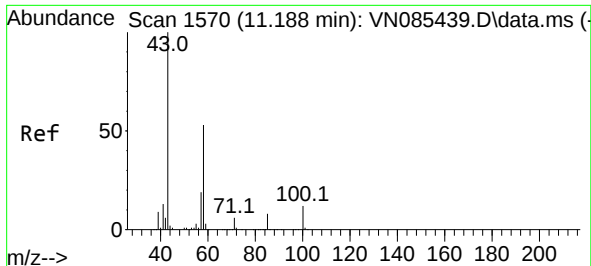
Tgt Ion: 69 Resp: 3071  
Ion Ratio Lower Upper  
69 100  
41 2933.7 54.6 82.0#  
39 1386.7 32.4 48.6#



#57  
1,3-Dichloropropane  
Concen: 1.827 ug/l  
RT: 11.200 min Scan# 1572  
Delta R.T. 0.041 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

Tgt Ion: 76 Resp: 8562  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.6 38.4#

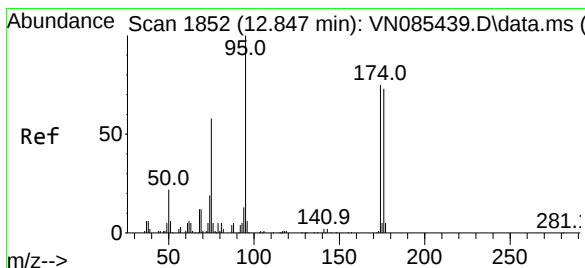
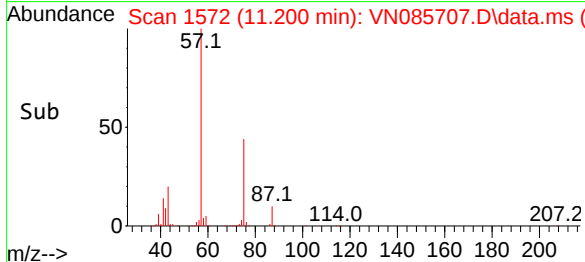
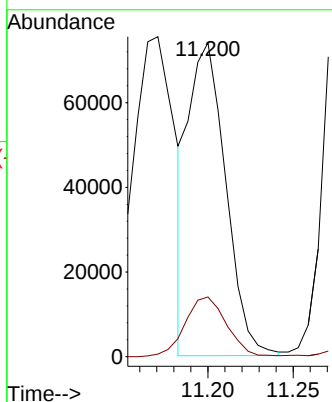
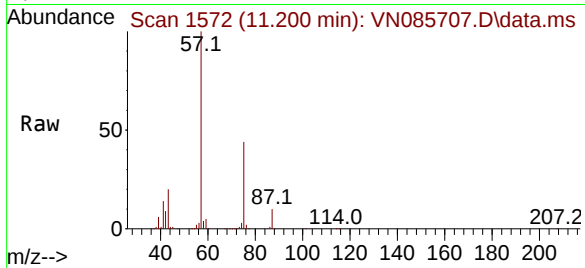




#59  
2-Hexanone  
Concen: 43.750 ug/l  
RT: 11.200 min Scan# 111  
Delta R.T. 0.012 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

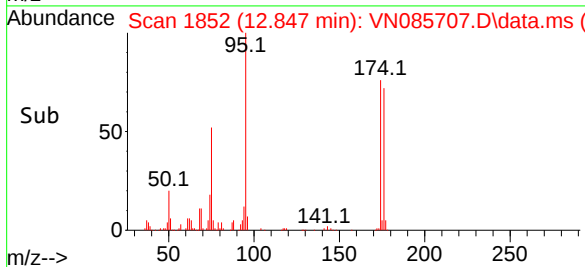
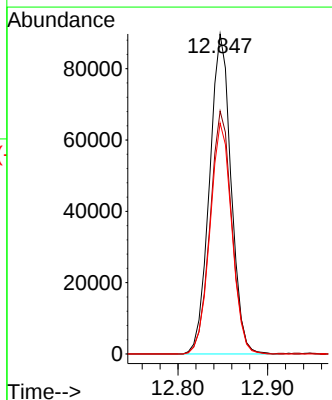
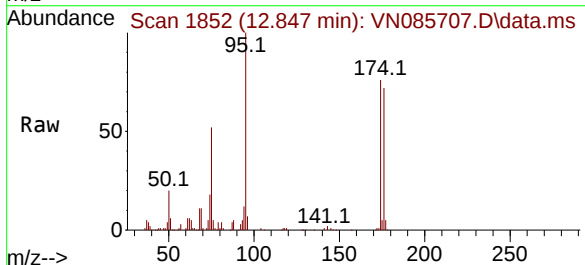
Instrument :  
MSVOA\_N  
ClientSampleId :

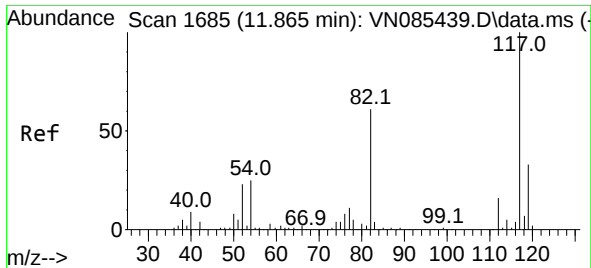
Tgt Ion: 43 Resp: 113015  
Ion Ratio Lower Upper  
43 100  
58 21.2 26.2 78.6#



#62  
4-Bromofluorobenzene  
Concen: 44.112 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

Tgt Ion: 95 Resp: 149428  
Ion Ratio Lower Upper  
95 100  
174 76.8 0.0 145.0  
176 73.0 0.0 142.4

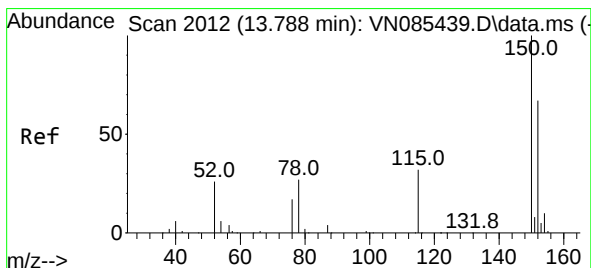
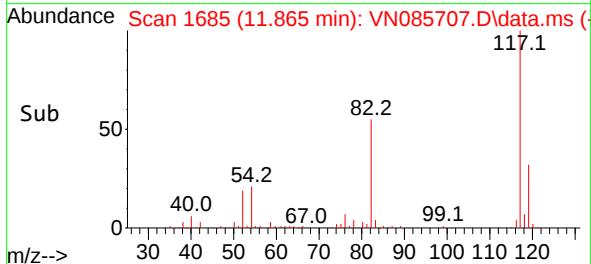
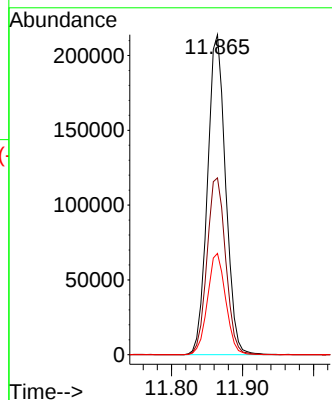
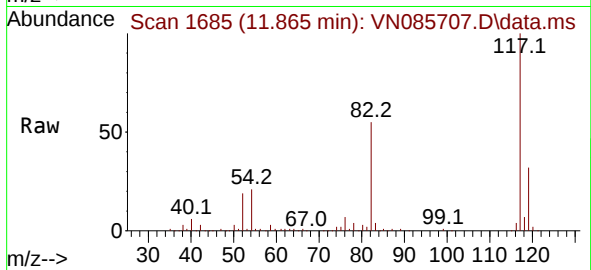




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

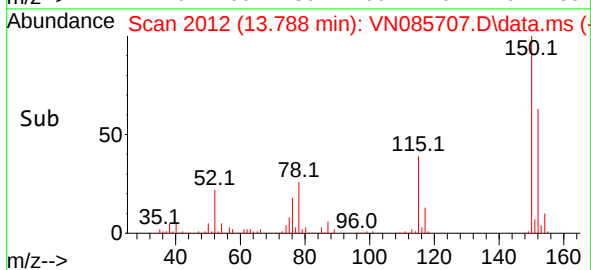
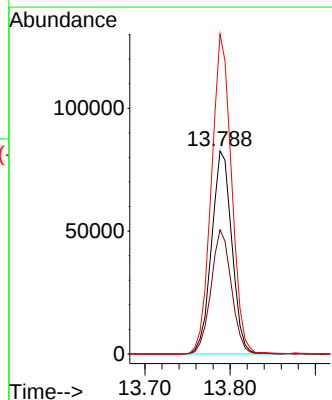
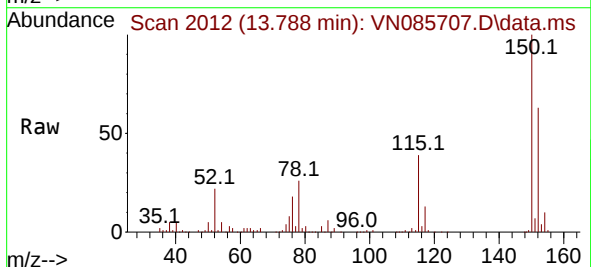
Instrument :  
MSVOA\_N  
ClientSampleId :

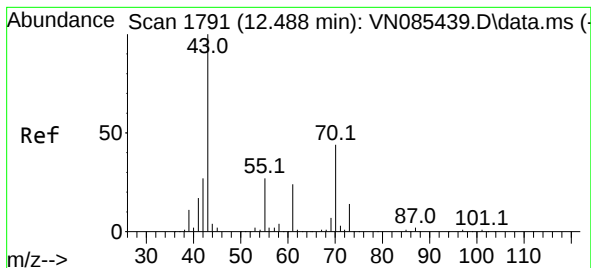
Tgt Ion:117 Resp: 379324  
Ion Ratio Lower Upper  
117 100  
82 55.2 48.6 72.8  
119 31.6 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN085707.D  
Acq: 07 Feb 2025 19:29

Tgt Ion:152 Resp: 136382  
Ion Ratio Lower Upper  
152 100  
115 61.5 31.1 93.3  
150 156.4 0.0 343.6





#74

N-amy1 acetate

Concen: 0.355 ug/l

RT: 12.482 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN085707.D

Acq: 07 Feb 2025 19:29

Instrument :

MSVOA\_N

ClientSampleId :

Tgt Ion: 43 Resp: 1467

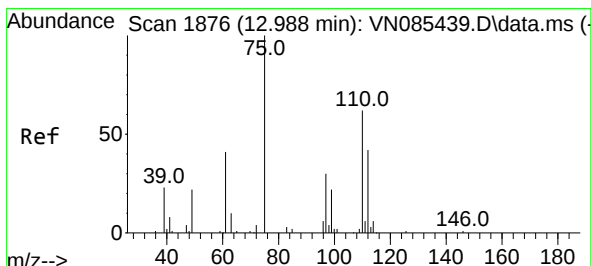
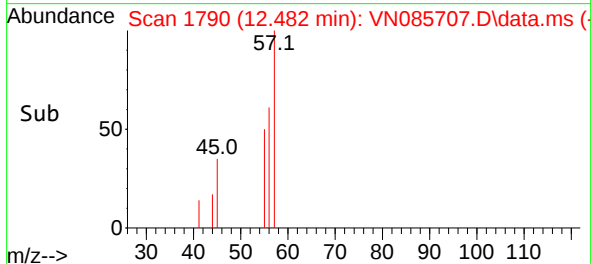
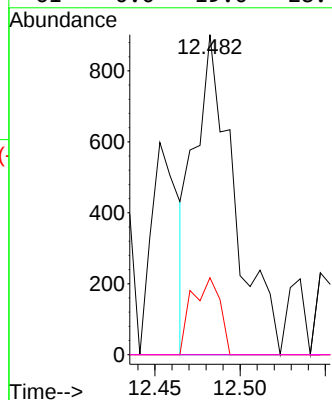
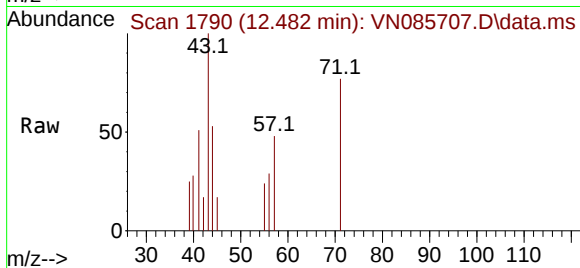
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 17.0 21.4 32.2#

61 0.0 19.0 28.4#



#76

1,2,3-Trichloropropane

Concen: 28.431 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN085707.D

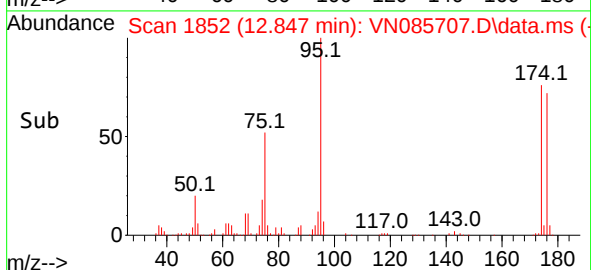
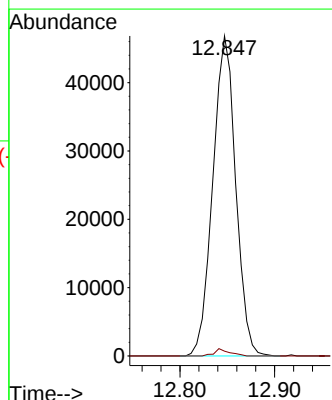
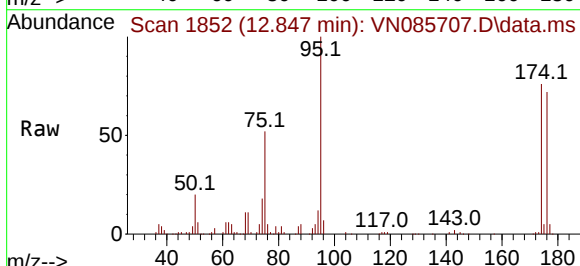
Acq: 07 Feb 2025 19:29

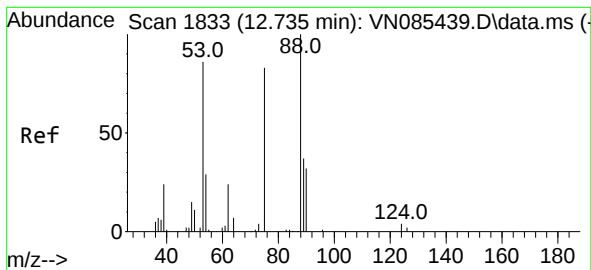
Tgt Ion: 75 Resp: 78810

Ion Ratio Lower Upper

75 100

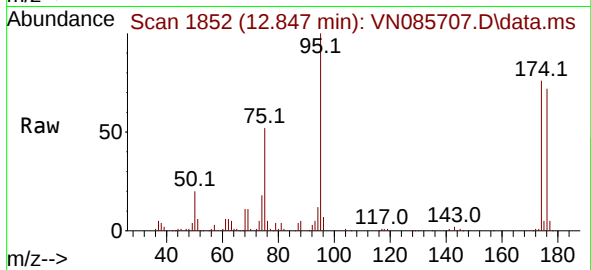
77 1.5 109.7 329.2#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 76.921 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN085707.D  
 Acq: 07 Feb 2025 19:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 78810  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 95.6 143.4#  
 89 0.0 37.0 55.6#

