

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102124\  
 Data File : VN084439.D  
 Acq On : 21 Oct 2024 16:29  
 Operator : JC\MD  
 Sample : P4438-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 22 07:55:16 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 01 07:11:01 2024  
 Response via : Initial Calibration

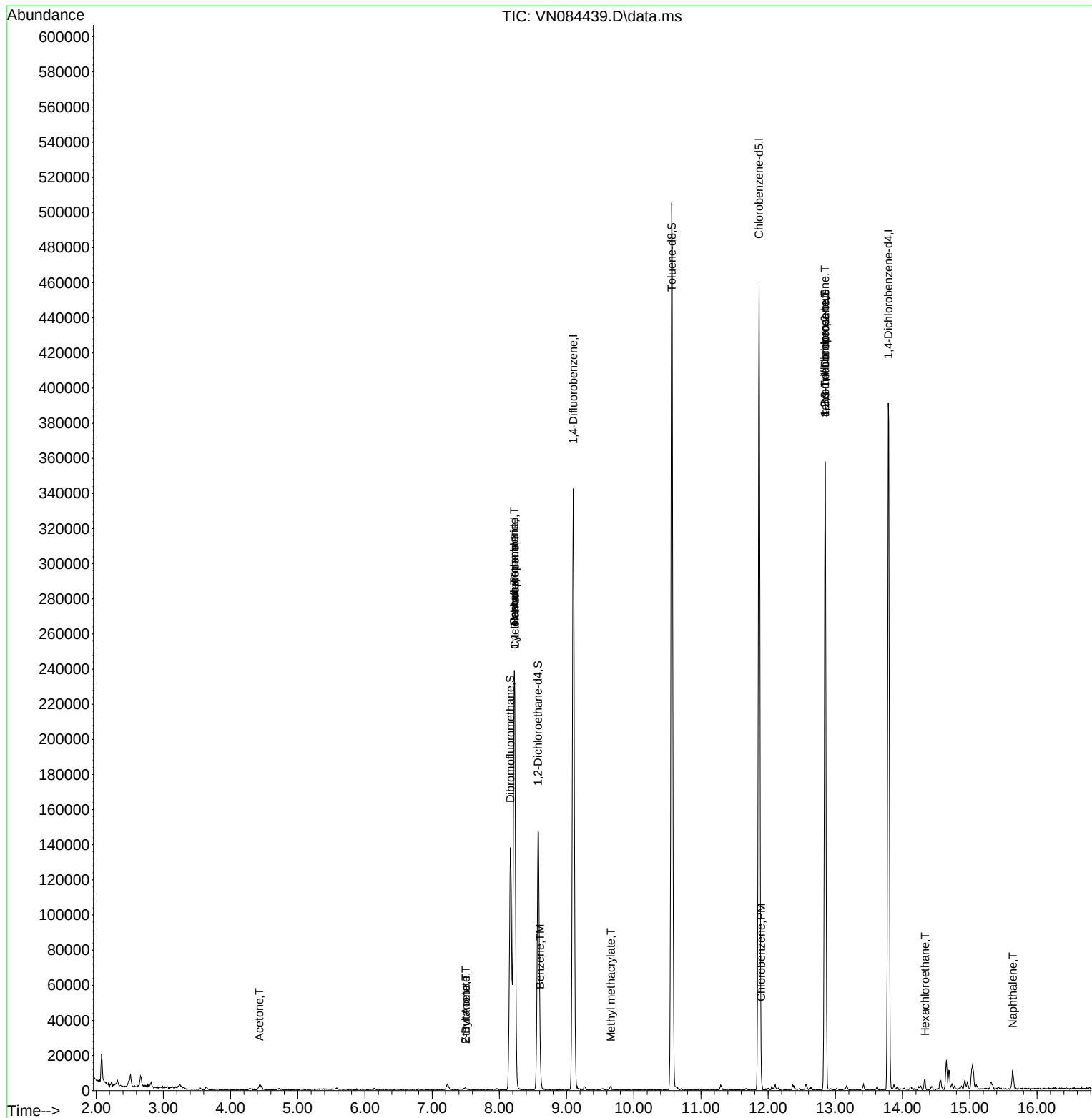
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 169620   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 290778   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 254308   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 106943   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 121477   | 48.302   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 96.600%  |
| 35) Dibromofluoromethane      | 8.165  | 113   | 99450    | 51.878   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 103.760% |
| 50) Toluene-d8                | 10.565 | 98    | 351622   | 49.856   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 99.720%  |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 125637   | 48.897   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 97.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 16) Acetone                   | 4.430  | 43    | 5607     | 5.190    | ug/l   | 98       |
| 25) 2-Butanone                | 7.500  | 43    | 2153     | 1.463    | ug/l # | 48       |
| 31) Cyclohexane               | 8.230  | 56    | 3645     | 0.978    | ug/l # | 7        |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 14559    | 5.229    | ug/l # | 50       |
| 37) Ethyl Acetate             | 7.500  | 43    | 2153     | 0.754    | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 19364    | 6.340    | ug/l # | 14       |
| 40) Benzene                   | 8.606  | 78    | 4608     | 0.531    | ug/l   | 93       |
| 48) Methyl methacrylate       | 9.659  | 41    | 613      | 0.275    | ug/l # | 25       |
| 65) Chlorobenzene             | 11.894 | 112   | 1367     | 0.242    | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 64125    | 29.371   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 64125    | 70.416   | ug/l # | 11       |
| 90) Hexachloroethane          | 14.335 | 117   | 586      | 0.442    | ug/l # | 15       |
| 95) Naphthalene               | 15.641 | 128   | 9531     | 1.612    | ug/l   | 97       |
| -----                         |        |       |          |          |        |          |

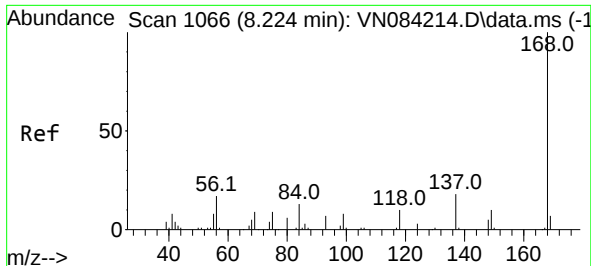
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102124\  
Data File : VN084439.D  
Acq On : 21 Oct 2024 16:29  
Operator : JC\MD  
Sample : P4438-04  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

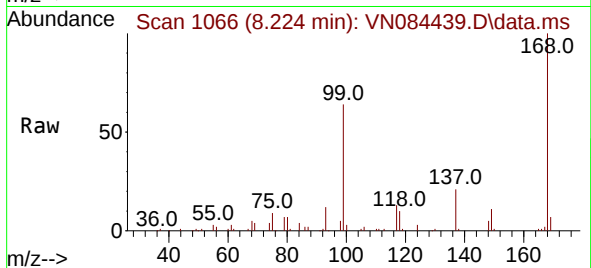
Quant Time: Oct 22 07:55:16 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 01 07:11:01 2024  
Response via : Initial Calibration



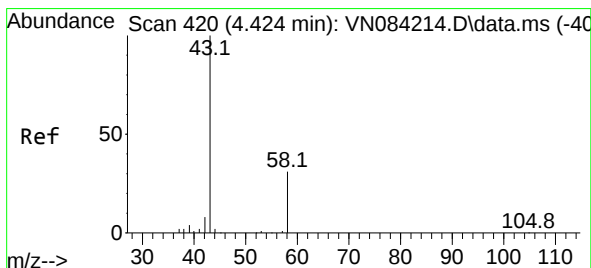
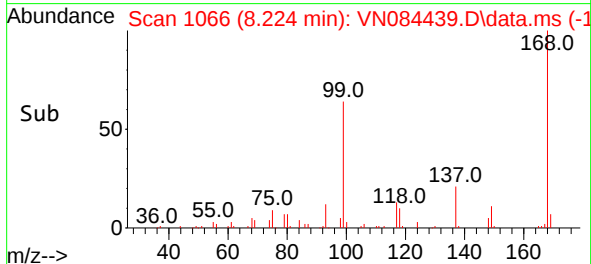
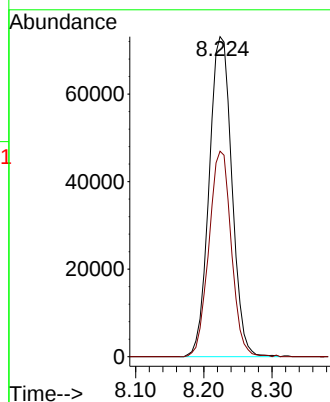


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

Instrument :  
MSVOA\_N  
ClientSampleId :

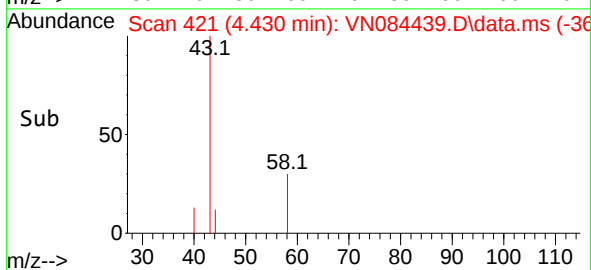
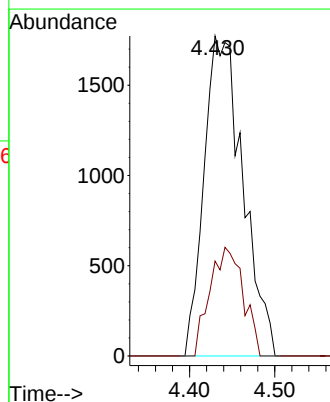
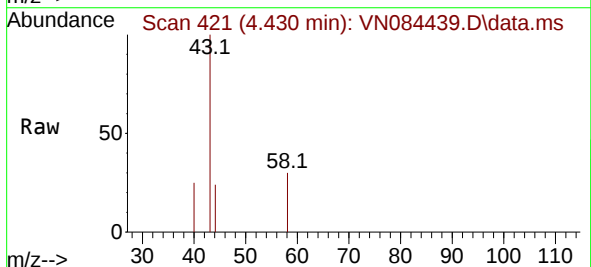


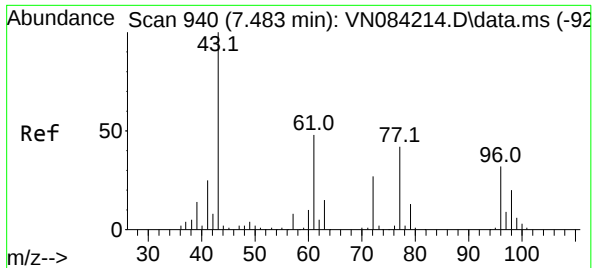
Tgt Ion:168 Resp: 169620  
Ion Ratio Lower Upper  
168 100  
99 64.2 54.2 81.2



#16  
Acetone  
Concen: 5.190 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. 0.006 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

Tgt Ion: 43 Resp: 5607  
Ion Ratio Lower Upper  
43 100  
58 29.7 24.4 36.6

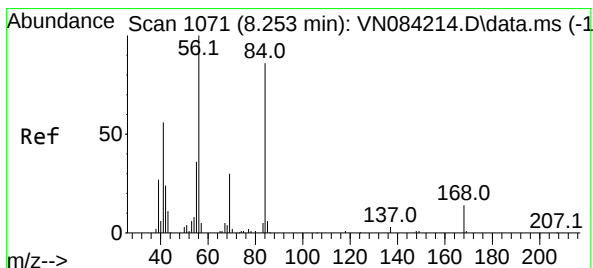
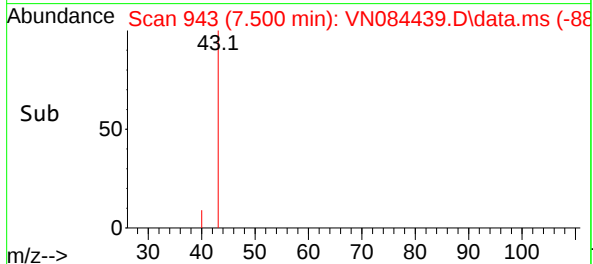
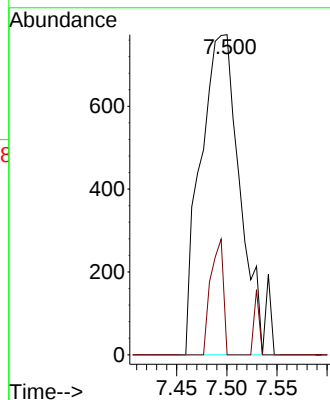
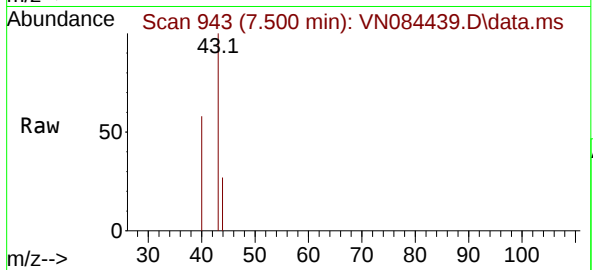




#25  
2-Butanone  
Concen: 1.463 ug/l  
RT: 7.500 min Scan# 94  
Delta R.T. 0.018 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

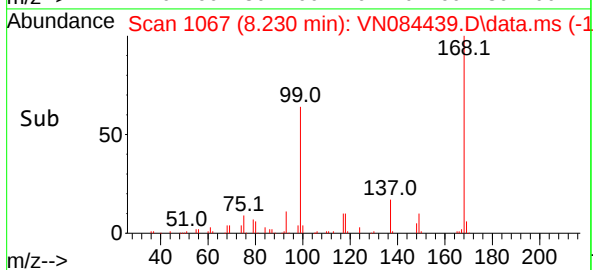
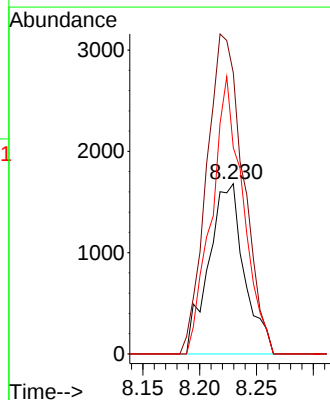
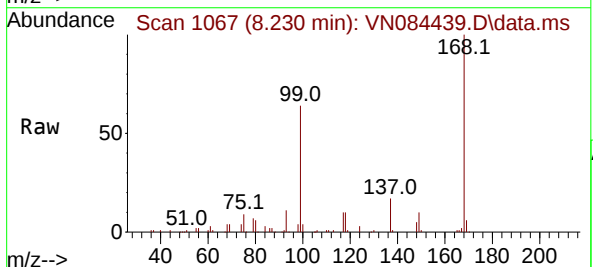
Instrument :  
MSVOA\_N  
ClientSampleId :

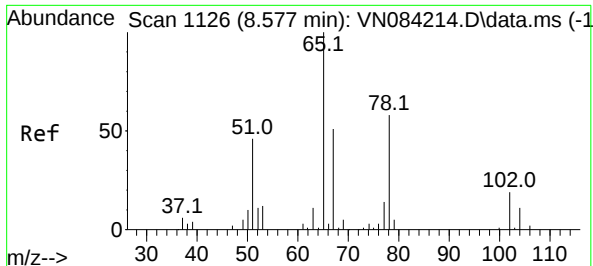
Tgt Ion: 43 Resp: 2153  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.4 32.2#



#31  
Cyclohexane  
Concen: 0.978 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.024 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

Tgt Ion: 56 Resp: 3645  
Ion Ratio Lower Upper  
56 100  
69 165.1 23.8 35.6#  
84 121.1 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 48.302 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084439.D

Acq: 21 Oct 2024 16:29

Instrument :

MSVOA\_N

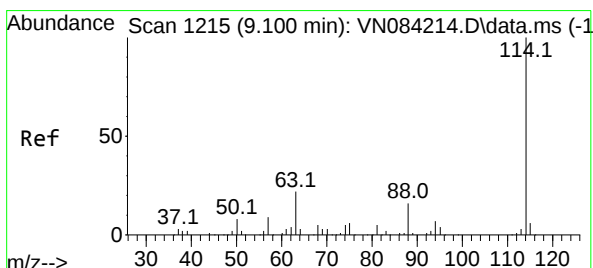
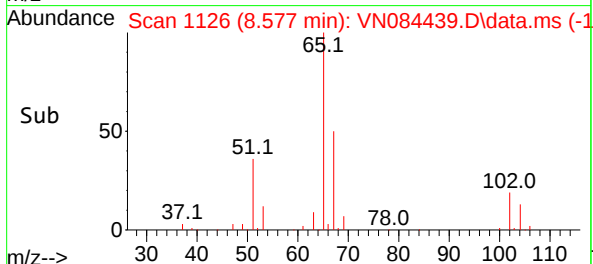
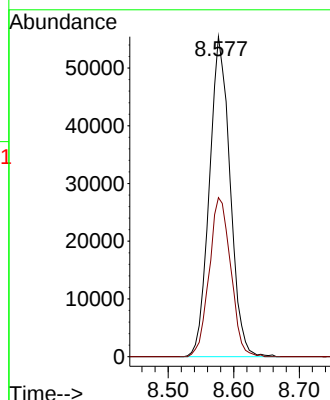
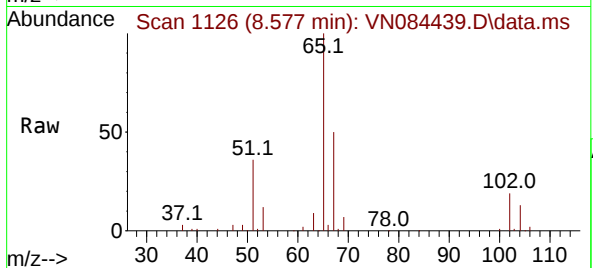
ClientSampleId :

Tgt Ion: 65 Resp: 121477

Ion Ratio Lower Upper

65 100

67 51.6 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084439.D

Acq: 21 Oct 2024 16:29

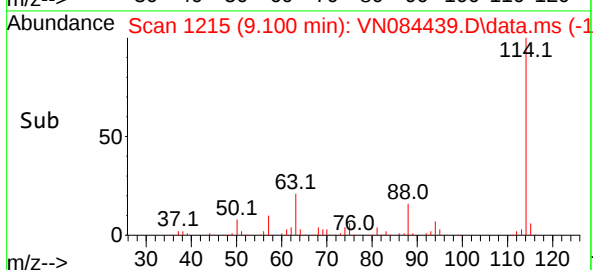
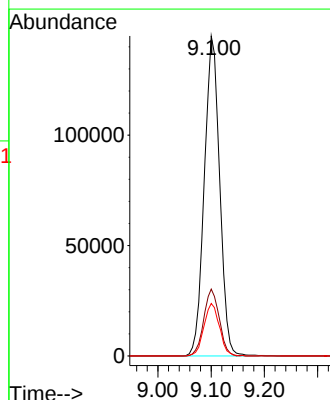
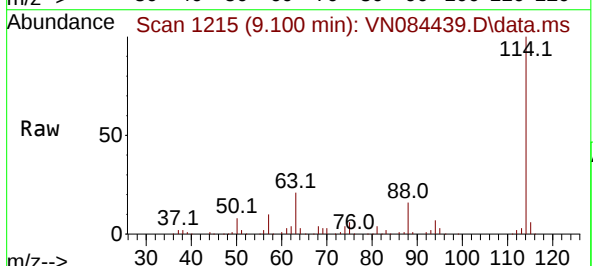
Tgt Ion: 114 Resp: 290778

Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.8

88 16.4 0.0 31.6





#35

Dibromofluoromethane

Concen: 51.878 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084439.D

Acq: 21 Oct 2024 16:29

Instrument :

MSVOA\_N

ClientSampleId :

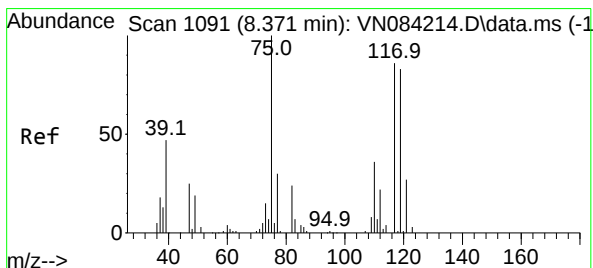
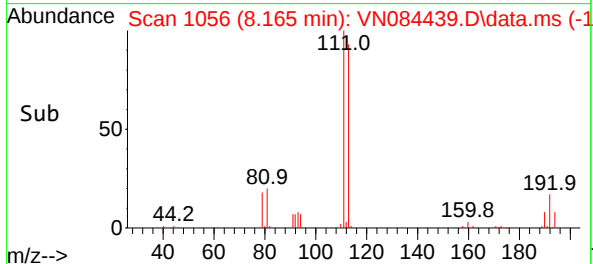
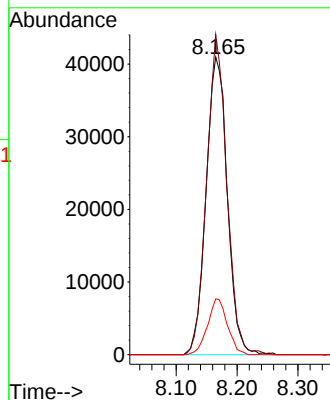
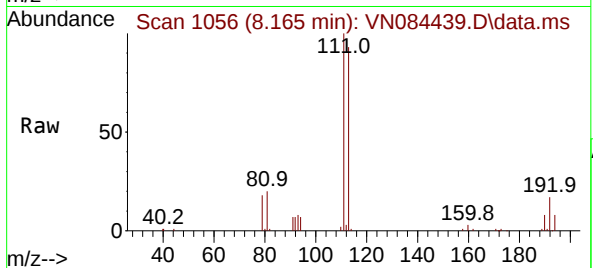
Tgt Ion:113 Resp: 99450

Ion Ratio Lower Upper

113 100

111 102.1 83.3 124.9

192 17.5 13.5 20.3



#36

1,1-Dichloropropene

Concen: 5.229 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN084439.D

Acq: 21 Oct 2024 16:29

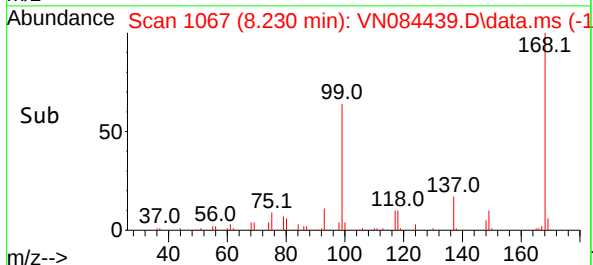
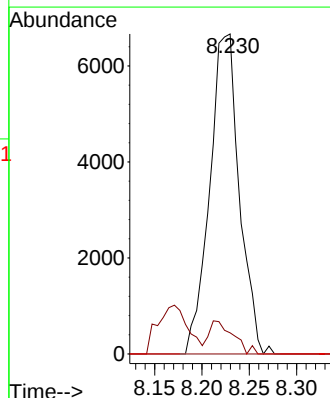
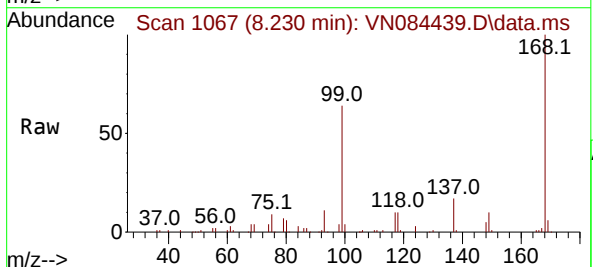
Tgt Ion: 75 Resp: 14559

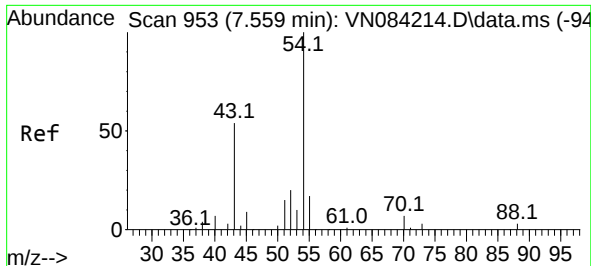
Ion Ratio Lower Upper

75 100

110 8.4 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.754 ug/l

RT: 7.500 min Scan# 94

Delta R.T. -0.059 min

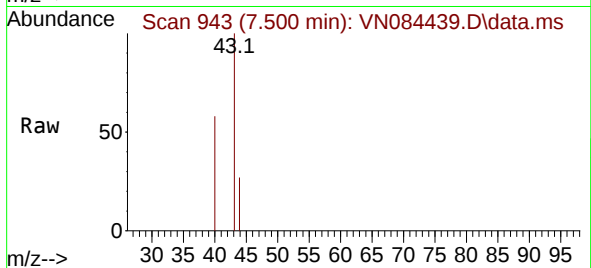
Lab File: VN084439.D

Acq: 21 Oct 2024 16:29

Instrument :

MSVOA\_N

ClientSampleId :



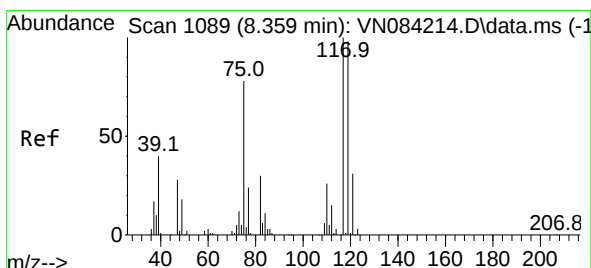
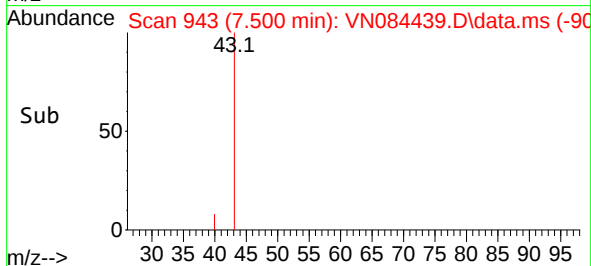
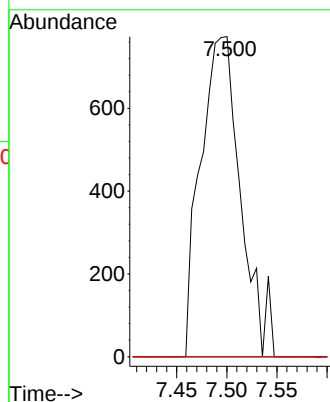
Tgt Ion: 43 Resp: 2153

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

70 0.0 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 6.340 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084439.D

Acq: 21 Oct 2024 16:29

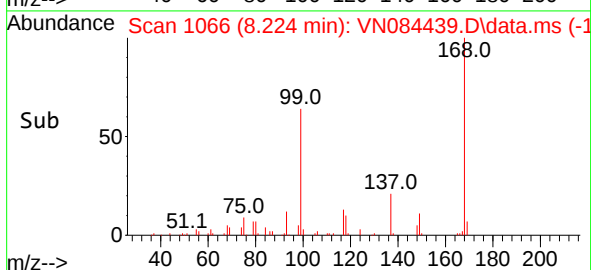
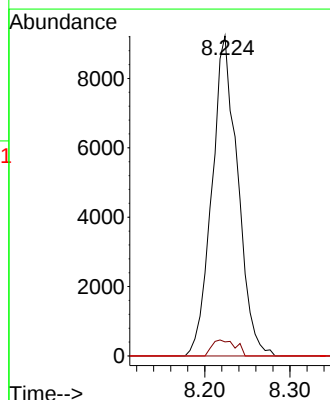
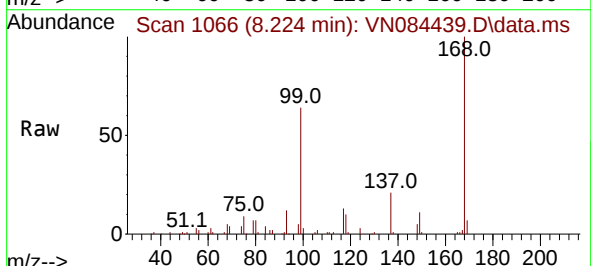
Tgt Ion: 117 Resp: 19364

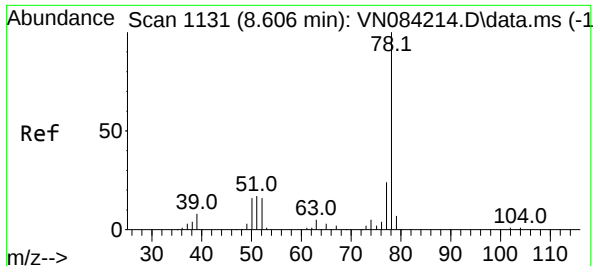
Ion Ratio Lower Upper

117 100

119 4.4 78.7 118.1#

121 0.0 24.4 36.6#

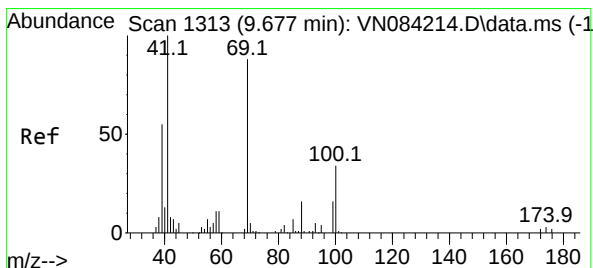
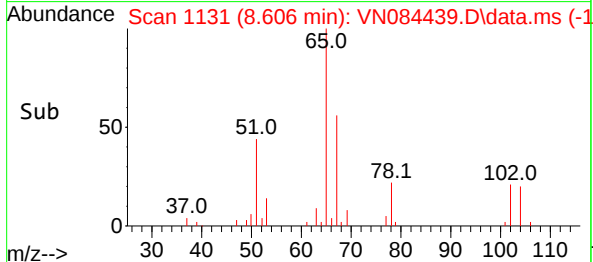
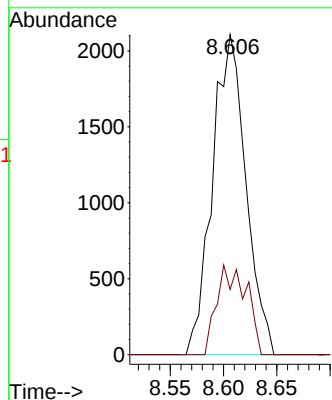
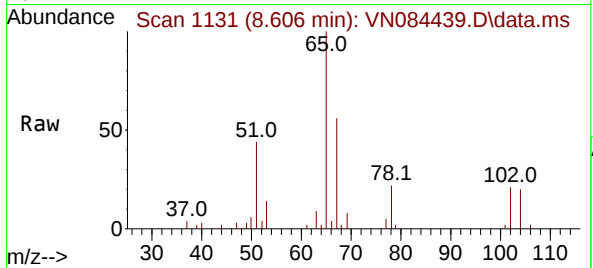




#40  
Benzene  
Concen: 0.531 ug/l  
RT: 8.606 min Scan# 1131  
Delta R.T. 0.000 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

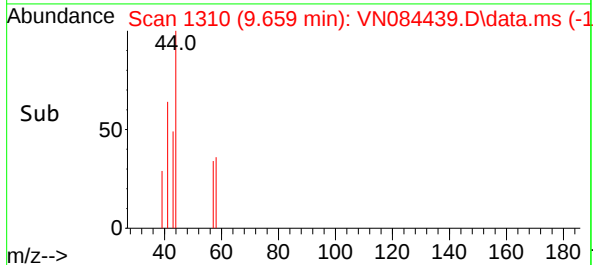
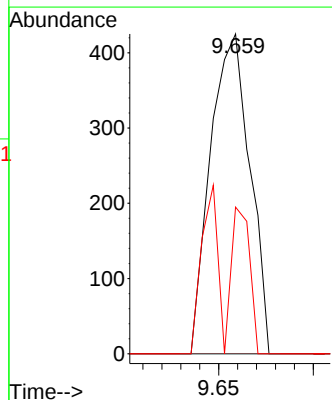
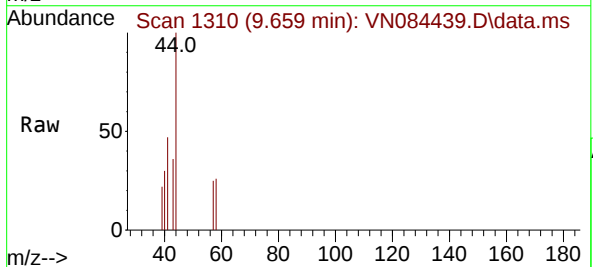
Instrument :  
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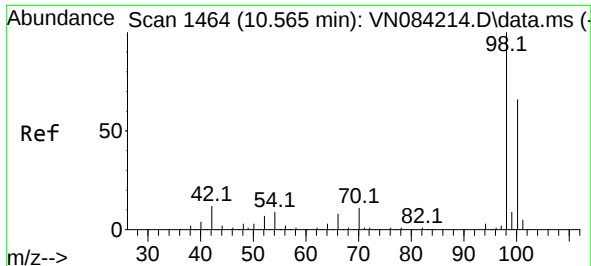
Tgt Ion: 78 Resp: 4608  
Ion Ratio Lower Upper  
78 100  
77 20.4 19.1 28.7



#48  
Methyl methacrylate  
Concen: 0.275 ug/l  
RT: 9.659 min Scan# 1310  
Delta R.T. -0.018 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

Tgt Ion: 41 Resp: 613  
Ion Ratio Lower Upper  
41 100  
69 0.0 67.1 100.7#  
39 21.4 45.8 68.6#

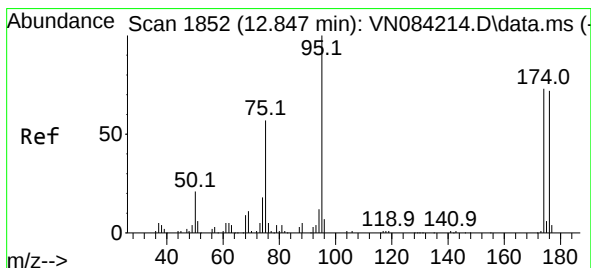
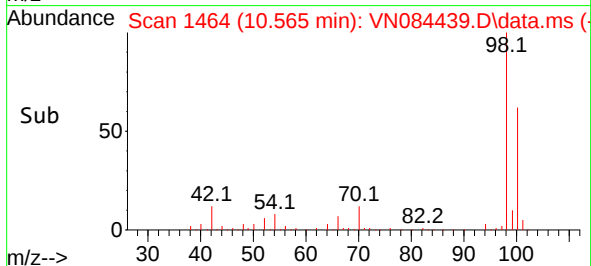
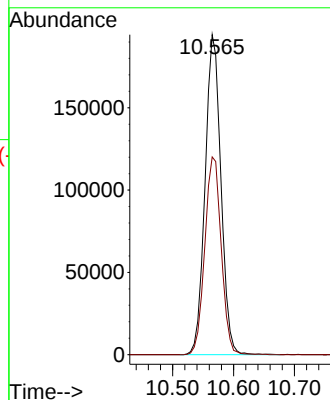
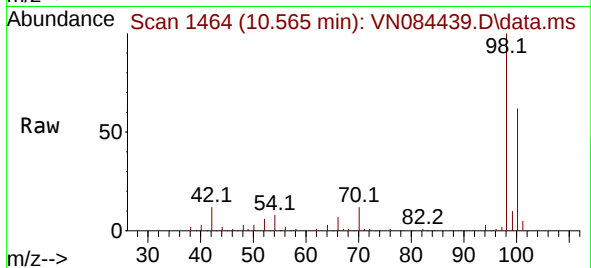




#50  
Toluene-d8  
Concen: 49.856 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

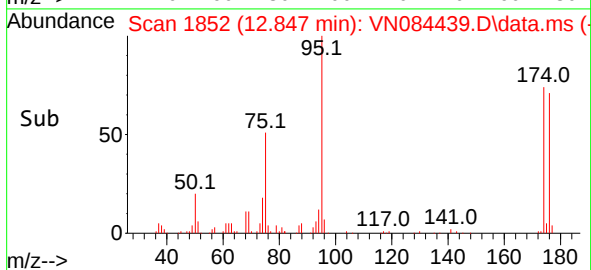
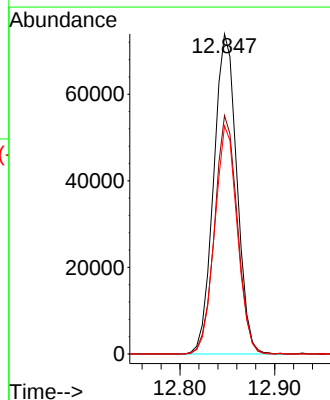
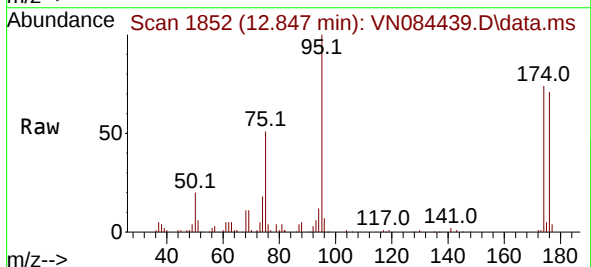
Instrument :  
MSVOA\_N  
ClientSampleId :

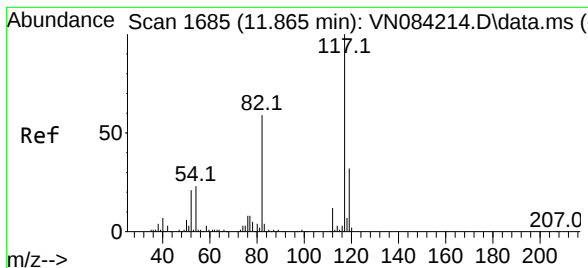
Tgt Ion: 98 Resp: 351622  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.7 79.1



#62  
4-Bromofluorobenzene  
Concen: 48.897 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

Tgt Ion: 95 Resp: 125637  
Ion Ratio Lower Upper  
95 100  
174 73.4 0.0 145.2  
176 69.8 0.0 140.0

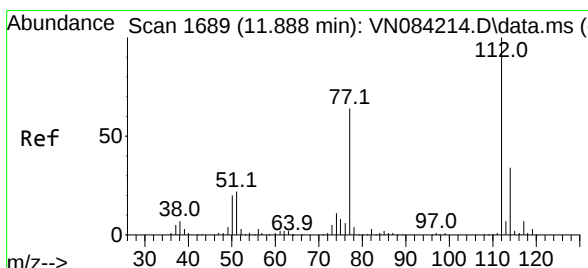
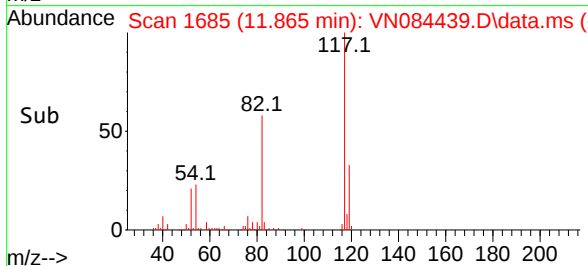
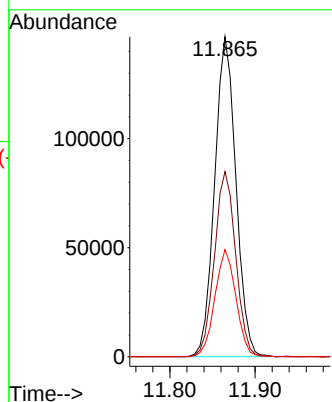
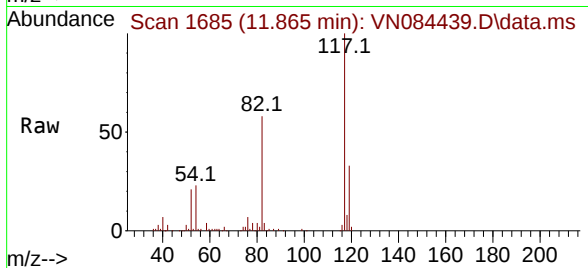




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

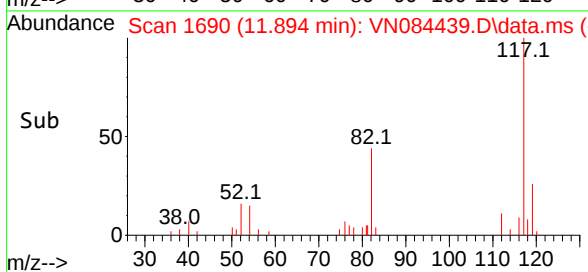
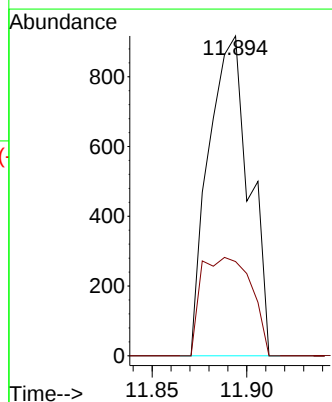
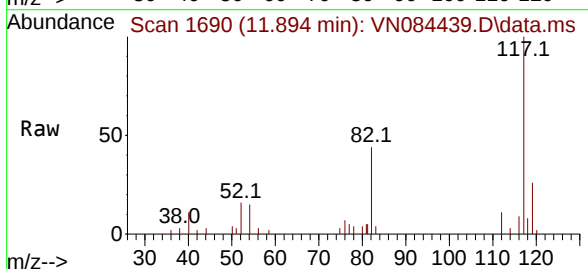
Instrument :  
MSVOA\_N  
ClientSampleId :

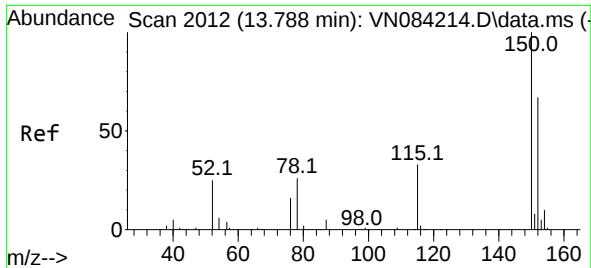
Tgt Ion:117 Resp: 254308  
Ion Ratio Lower Upper  
117 100  
82 57.9 47.2 70.8  
119 33.4 25.4 38.0



#65  
Chlorobenzene  
Concen: 0.242 ug/l  
RT: 11.894 min Scan# 1690  
Delta R.T. 0.006 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

Tgt Ion:112 Resp: 1367  
Ion Ratio Lower Upper  
112 100  
114 29.4 27.0 40.6

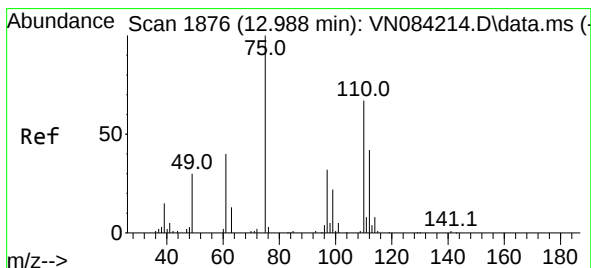
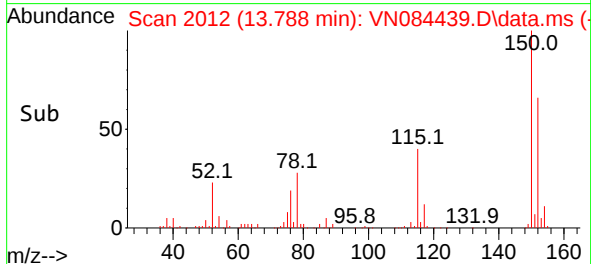
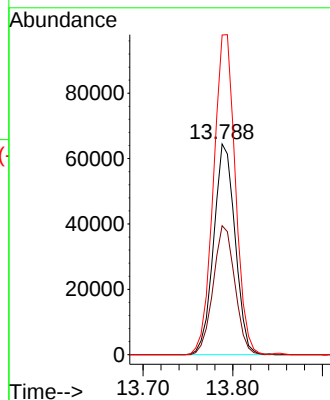
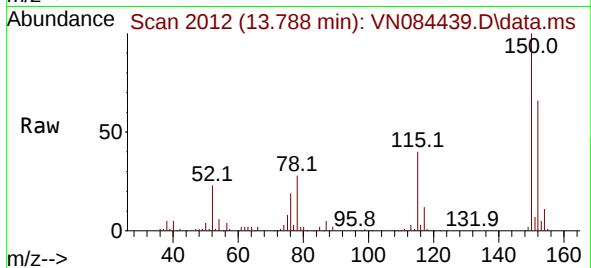




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VN084439.D  
 Acq: 21 Oct 2024 16:29

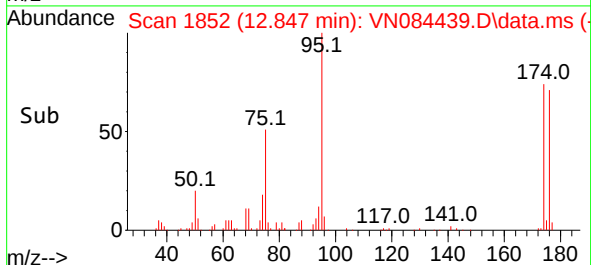
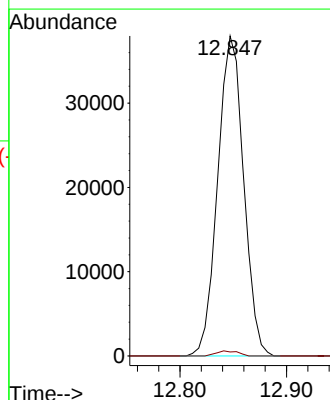
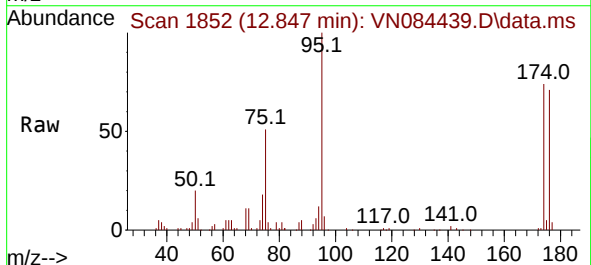
Instrument :  
 MSVOA\_N  
 ClientSampleId :

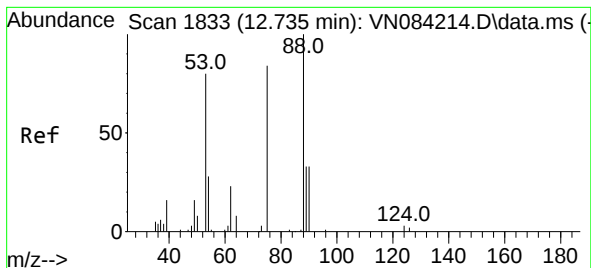
Tgt Ion:152 Resp: 106943  
 Ion Ratio Lower Upper  
 152 100  
 115 61.9 31.3 93.9  
 150 155.1 0.0 349.8



#76  
 1,2,3-Trichloropropane  
 Concen: 29.371 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.141 min  
 Lab File: VN084439.D  
 Acq: 21 Oct 2024 16:29

Tgt Ion: 75 Resp: 64125  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 96.9 290.7#

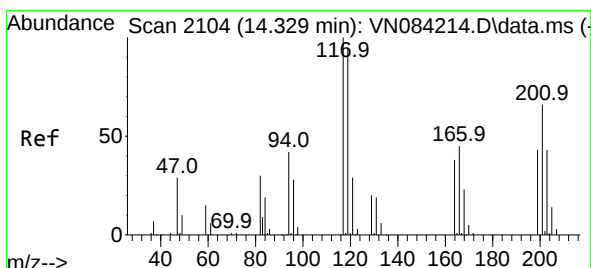
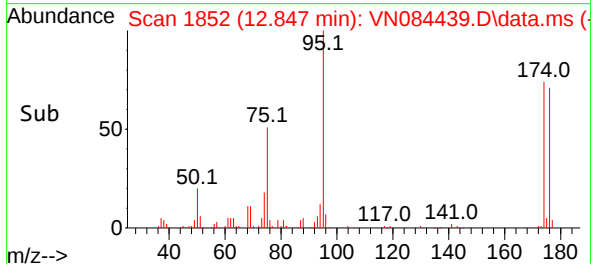
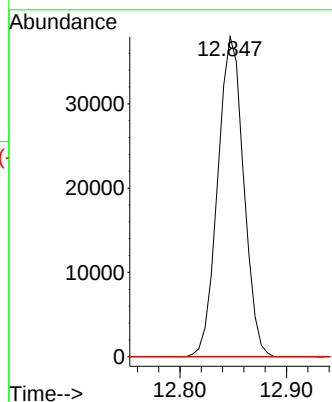
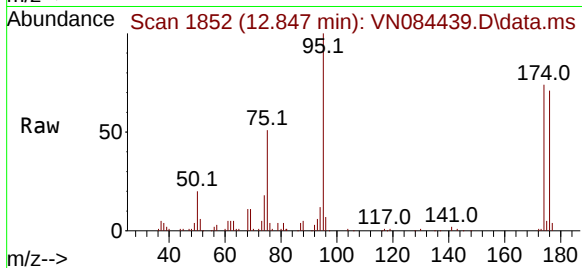




#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.416 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

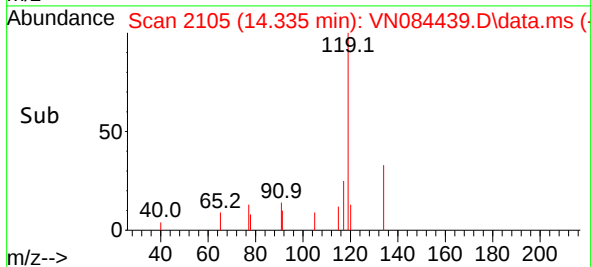
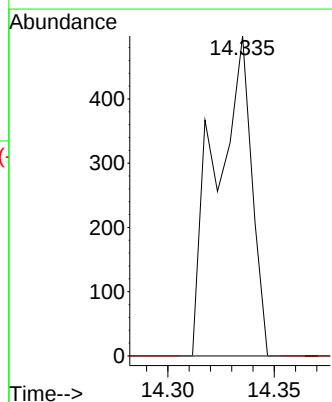
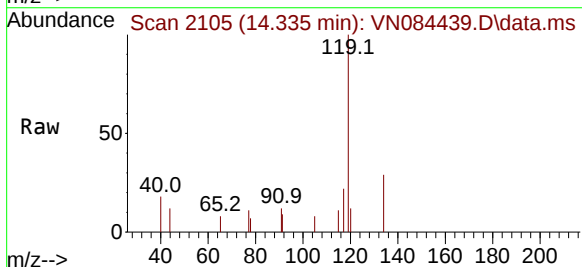
Instrument :  
MSVOA\_N  
ClientSampleId :

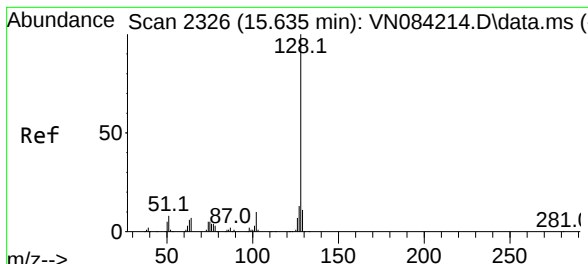
Tgt Ion: 75 Resp: 64125  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 35.5 53.3#



#90  
Hexachloroethane  
Concen: 0.442 ug/l  
RT: 14.335 min Scan# 2105  
Delta R.T. 0.006 min  
Lab File: VN084439.D  
Acq: 21 Oct 2024 16:29

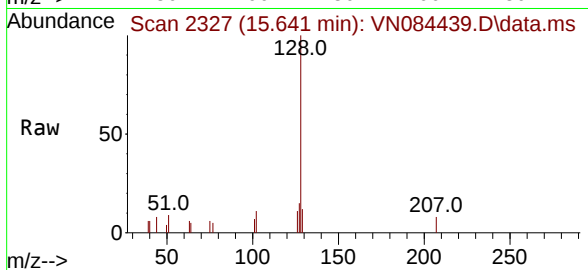
Tgt Ion: 117 Resp: 586  
Ion Ratio Lower Upper  
117 100  
201 0.0 34.4 103.2#





#95  
 Naphthalene  
 Concen: 1.612 ug/l  
 RT: 15.641 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VN084439.D  
 Acq: 21 Oct 2024 16:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 9531  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 13.9  | 10.5  | 15.7  |
| 129      | 12.7  | 8.7   | 13.1  |

