

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102924\  
 Data File : VN084553.D  
 Acq On : 29 Oct 2024 10:36  
 Operator : JC\MD  
 Sample : VN1029MBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 30 04:57:56 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

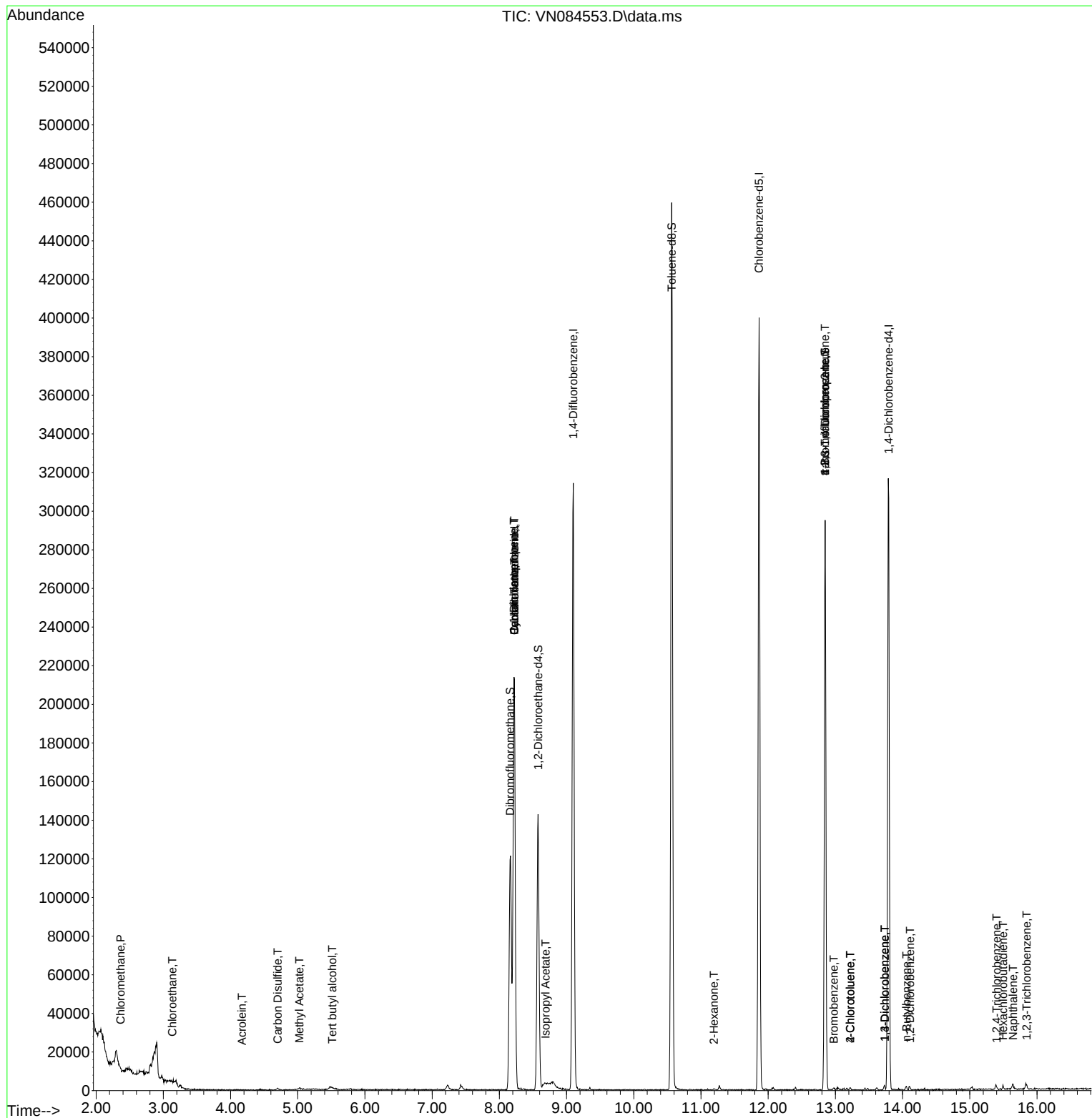
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 153451   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 265879   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 222415   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 86570    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 112673   | 49.522   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 99.040%  |
| 35) Dibromofluoromethane      | 8.159  | 113   | 89674    | 51.159   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 102.320% |
| 50) Toluene-d8                | 10.565 | 98    | 310297   | 48.116   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 96.240%  |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 101297   | 43.116   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 86.240%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50    | 541      | 0.261    | ug/l # | 41       |
| 6) Chloroethane               | 3.136  | 64    | 513      | 0.357    | ug/l # | 45       |
| 11) Tert butyl alcohol        | 5.512  | 59    | 888      | 2.367    | ug/l # | 73       |
| 13) Acrolein                  | 4.171  | 56    | 203      | 0.471    | ug/l # | 14       |
| 17) Carbon Disulfide          | 4.700  | 76    | 2041     | 0.373    | ug/l # | 75       |
| 18) Methyl Acetate            | 5.024  | 43    | 1989     | 0.934    | ug/l # | 65       |
| 31) Cyclohexane               | 8.224  | 56    | 3618     | 1.074    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 13084    | 5.139    | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 17077    | 6.114    | ug/l # | 14       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 4086     | 0.799    | ug/l # | 56       |
| 59) 2-Hexanone                | 11.194 | 43    | 767      | 0.413    | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 52080    | 29.468   | ug/l # | 1        |
| 77) Bromobenzene              | 12.976 | 156   | 446      | 0.280    | ug/l   | 67       |
| 79) 2-Chlorotoluene           | 13.223 | 91    | 1019     | 0.209    | ug/l   | 88       |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 52080    | 70.648   | ug/l # | 11       |
| 82) 4-Chlorotoluene           | 13.223 | 91    | 1019     | 0.207    | ug/l   | 88       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146   | 987      | 0.330    | ug/l # | 73       |
| 88) 1,4-Dichlorobenzene       | 13.735 | 146   | 987      | 0.327    | ug/l   | 74       |
| 89) n-Butylbenzene            | 14.059 | 91    | 1593     | 0.332    | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 14.111 | 146   | 1111     | 0.379    | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180   | 1306     | 0.905    | ug/l   | 82       |
| 94) Hexachlorobutadiene       | 15.494 | 225   | 697      | 0.968    | ug/l   | 80       |
| 95) Naphthalene               | 15.647 | 128   | 4136     | 0.864    | ug/l # | 86       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180   | 1401     | 0.969    | ug/l   | 95       |

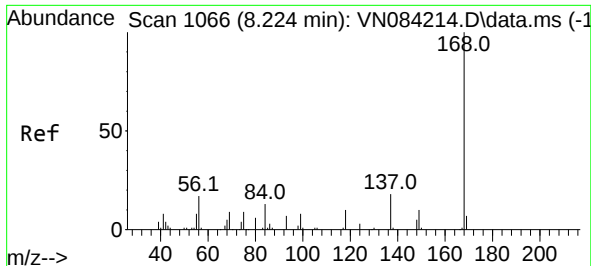
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102924\  
Data File : VN084553.D  
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Sample : VN1029MBL01  
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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

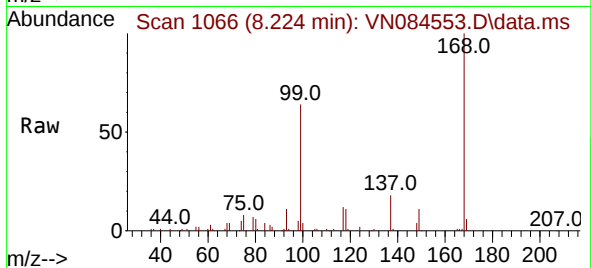
Quant Time: Oct 30 04:57:56 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 01 07:11:01 2024  
Response via : Initial Calibration



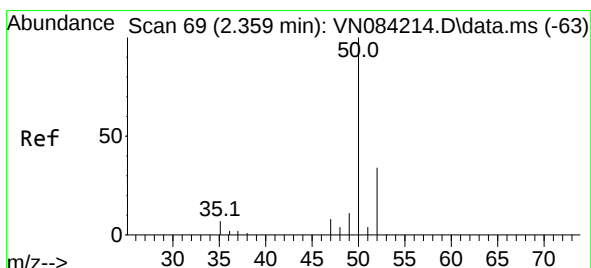
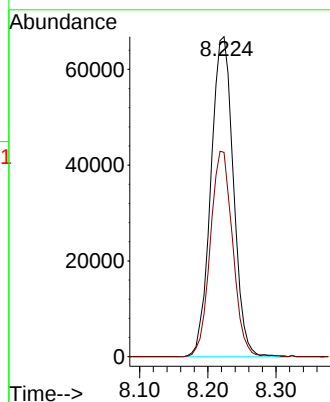
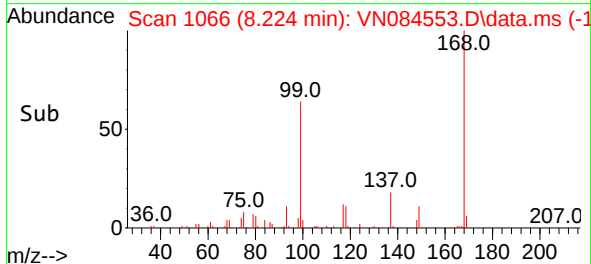


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

Instrument :  
MSVOA\_N  
ClientSampleId :

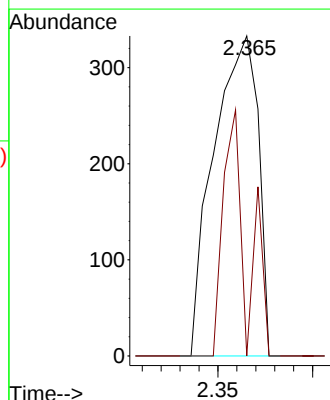
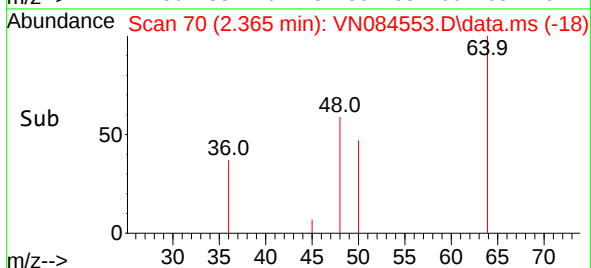
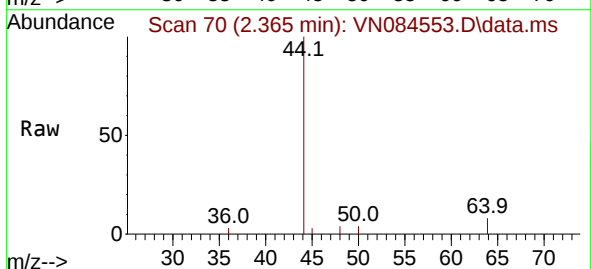


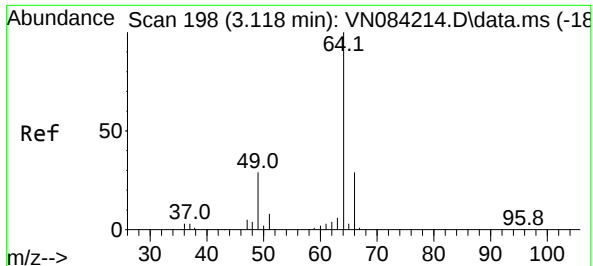
Tgt Ion:168 Resp: 153451  
Ion Ratio Lower Upper  
168 100  
99 63.8 54.2 81.2



#3  
Chloromethane  
Concen: 0.261 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

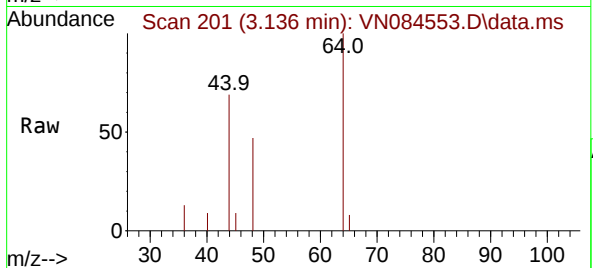
Tgt Ion: 50 Resp: 541  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#



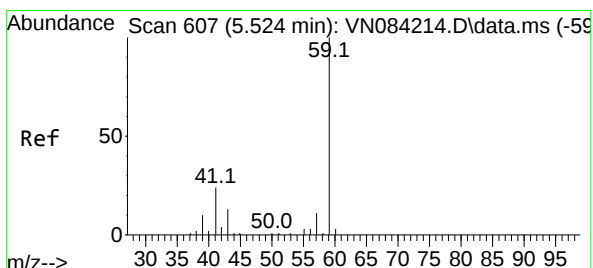
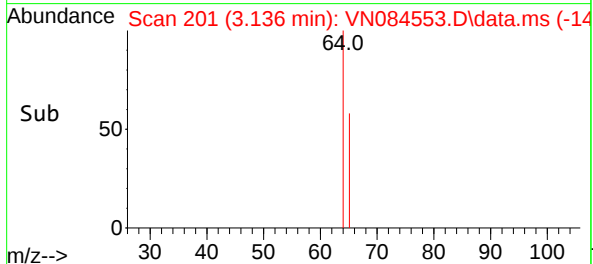
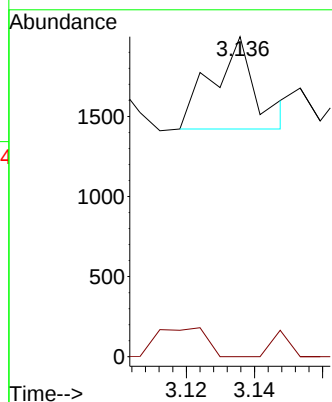


#6  
Chloroethane  
Concen: 0.357 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. 0.018 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

Instrument :  
MSVOA\_N  
ClientSampleId :

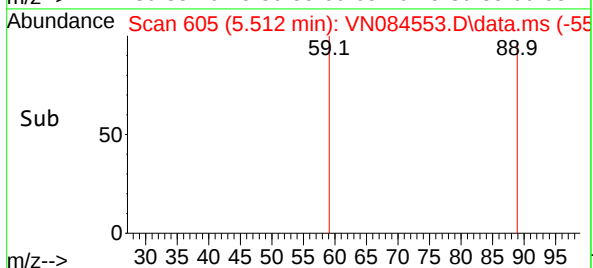
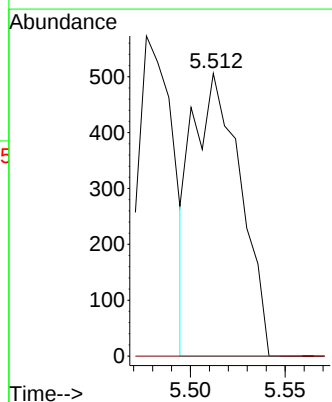
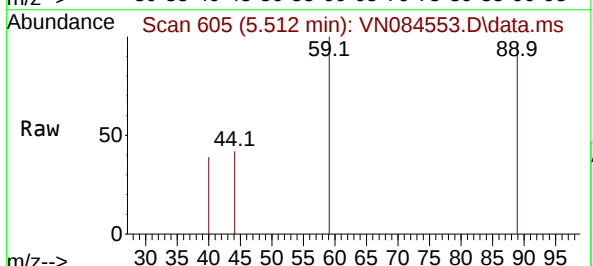


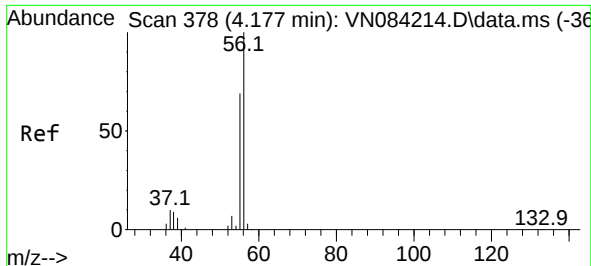
Tgt Ion: 64 Resp: 513  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#



#11  
Tert butyl alcohol  
Concen: 2.367 ug/l  
RT: 5.512 min Scan# 605  
Delta R.T. -0.012 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

Tgt Ion: 59 Resp: 888  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#





#13

Acrolein

Concen: 0.471 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN084553.D

Acq: 29 Oct 2024 10:36

Instrument :

MSVOA\_N

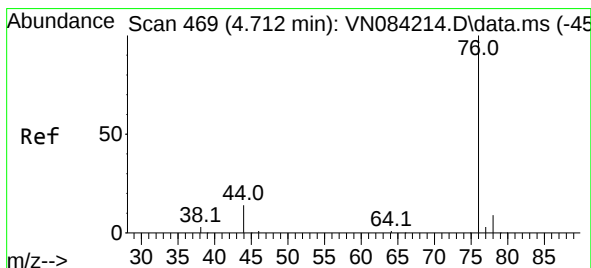
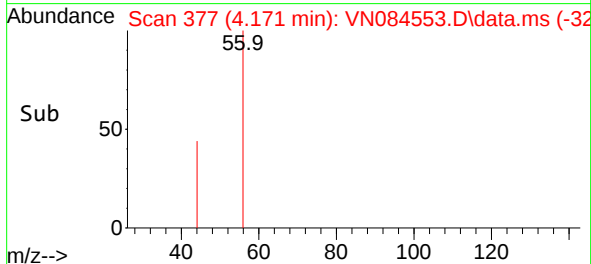
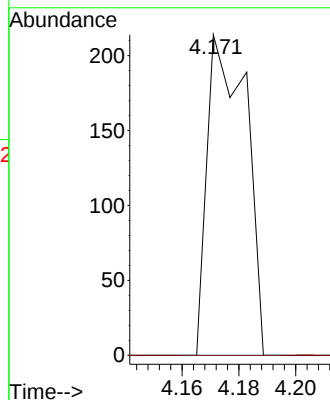
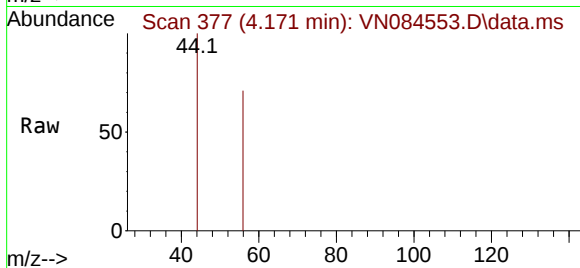
ClientSampleId :

Tgt Ion: 56 Resp: 203

Ion Ratio Lower Upper

56 100

55 0.0 57.2 85.8#



#17

Carbon Disulfide

Concen: 0.373 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.012 min

Lab File: VN084553.D

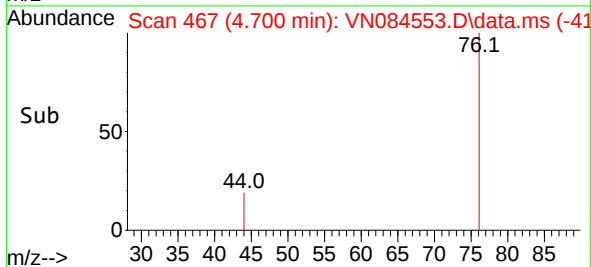
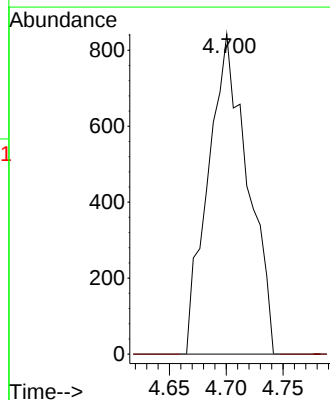
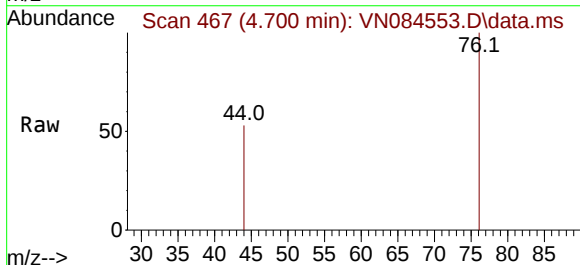
Acq: 29 Oct 2024 10:36

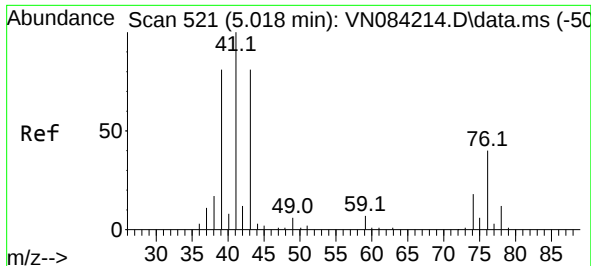
Tgt Ion: 76 Resp: 2041

Ion Ratio Lower Upper

76 100

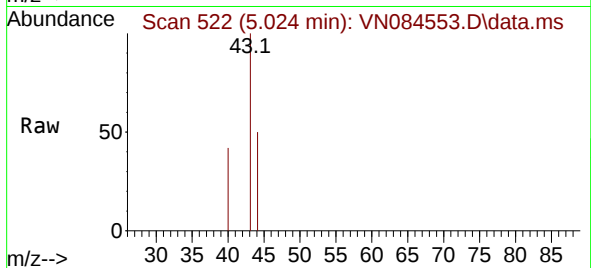
78 0.0 7.3 10.9#



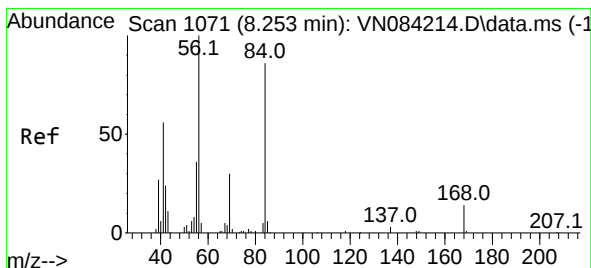
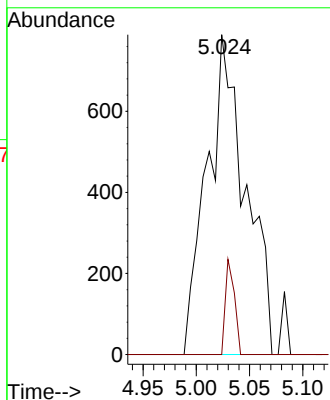
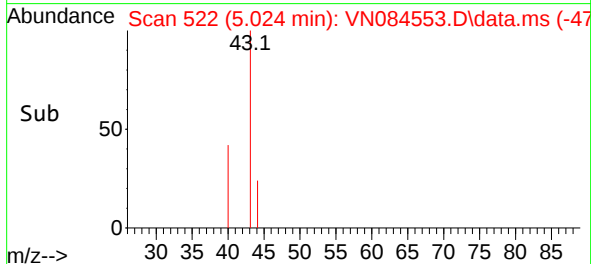


#18  
Methyl Acetate  
Concen: 0.934 ug/l  
RT: 5.024 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

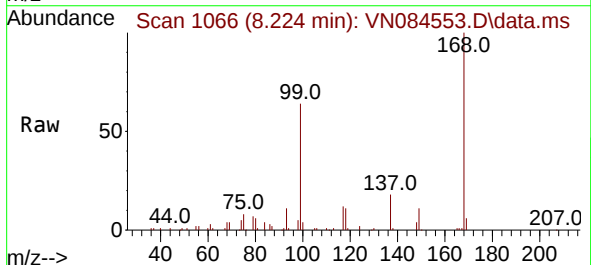
Instrument :  
MSVOA\_N  
ClientSampleId :



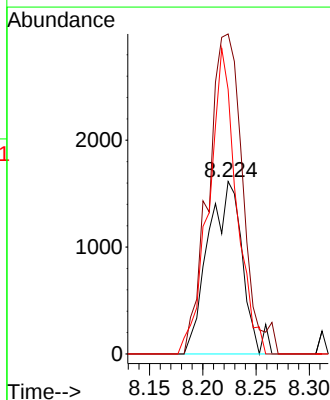
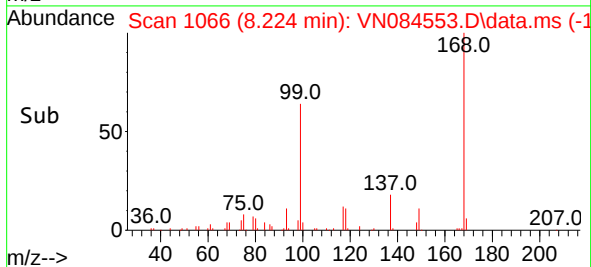
Tgt Ion: 43 Resp: 1989  
Ion Ratio Lower Upper  
43 100  
74 6.9 19.2 28.8#

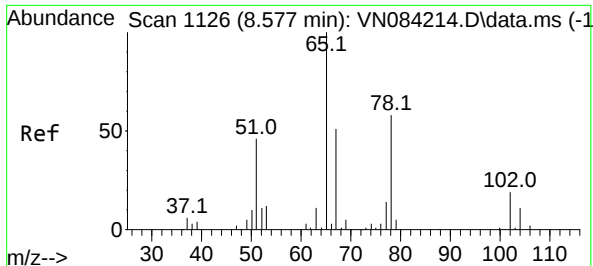


#31  
Cyclohexane  
Concen: 1.074 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36



Tgt Ion: 56 Resp: 3618  
Ion Ratio Lower Upper  
56 100  
69 185.4 23.8 35.6#  
84 153.3 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 49.522 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084553.D

Acq: 29 Oct 2024 10:36

Instrument :

MSVOA\_N

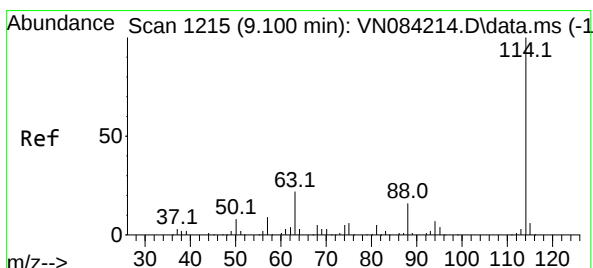
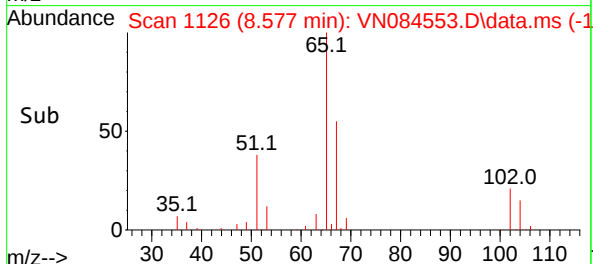
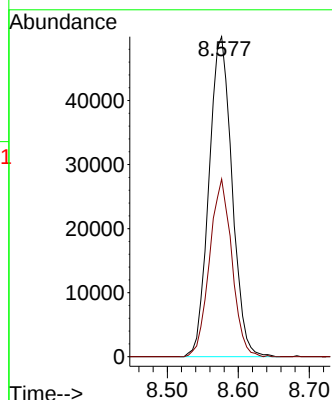
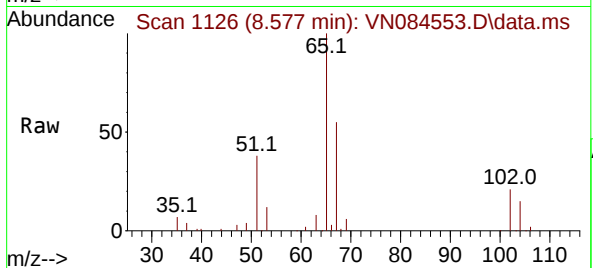
ClientSampleId :

Tgt Ion: 65 Resp: 112673

Ion Ratio Lower Upper

65 100

67 53.7 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: VN084553.D

Acq: 29 Oct 2024 10:36

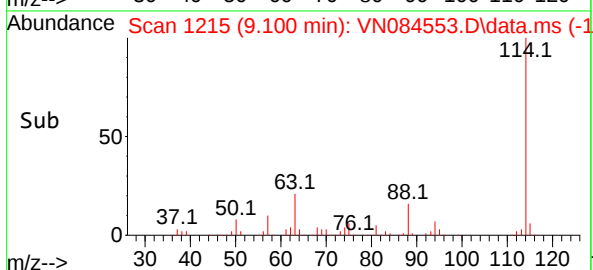
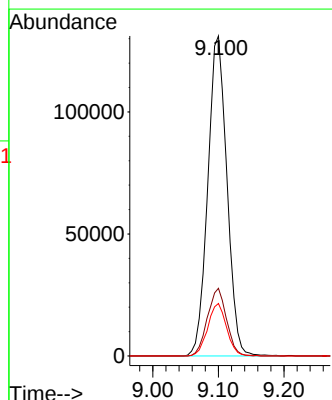
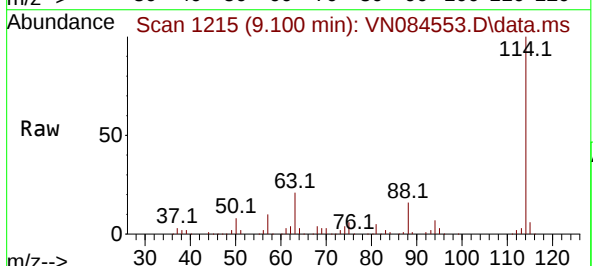
Tgt Ion: 114 Resp: 265879

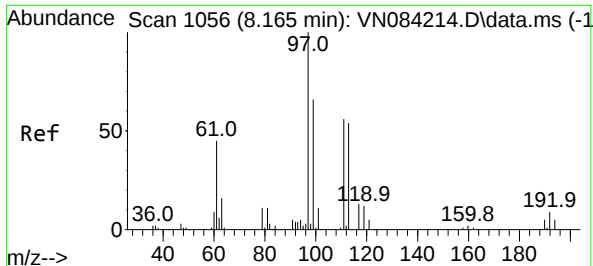
Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.8

88 16.4 0.0 31.6





#35

Dibromofluoromethane

Concen: 51.159 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN084553.D

Acq: 29 Oct 2024 10:36

Instrument :

MSVOA\_N

ClientSampleId :

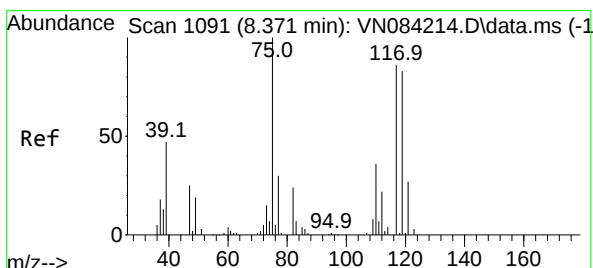
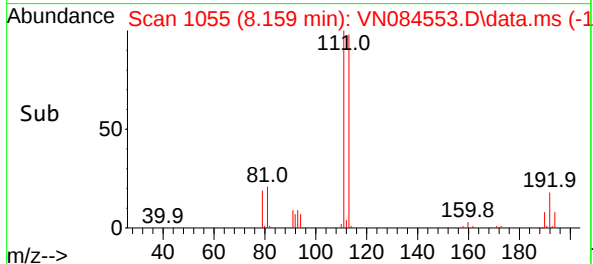
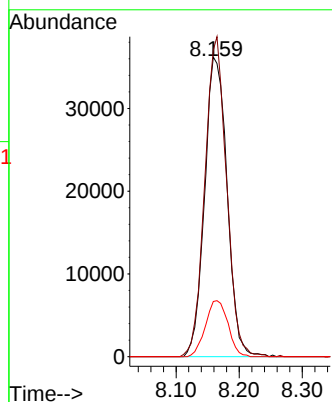
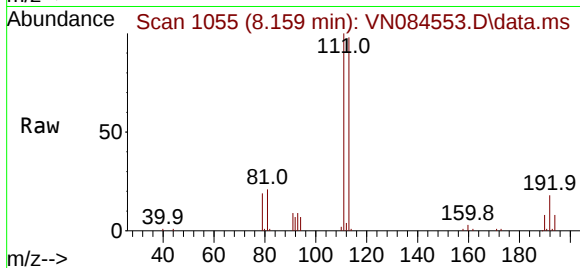
Tgt Ion:113 Resp: 89674

Ion Ratio Lower Upper

113 100

111 102.9 83.3 124.9

192 18.7 13.5 20.3



#36

1,1-Dichloropropene

Concen: 5.139 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084553.D

Acq: 29 Oct 2024 10:36

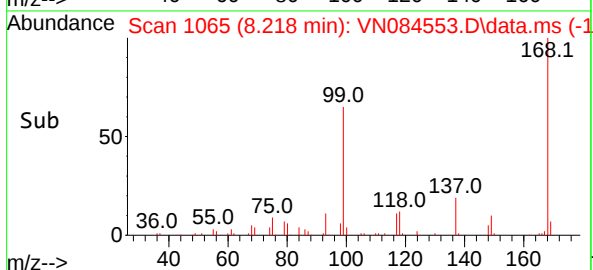
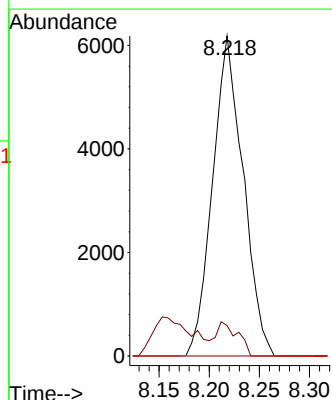
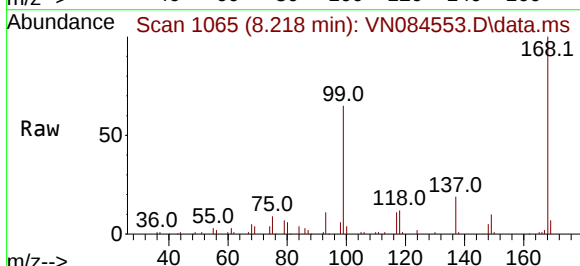
Tgt Ion: 75 Resp: 13084

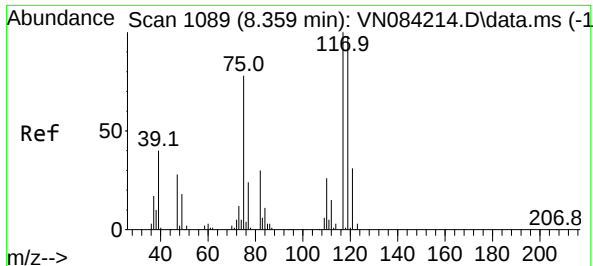
Ion Ratio Lower Upper

75 100

110 7.4 16.9 50.7#

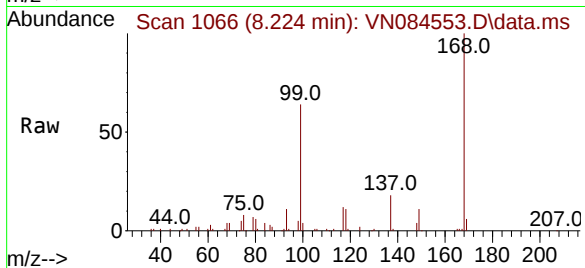
77 0.0 24.7 37.1#



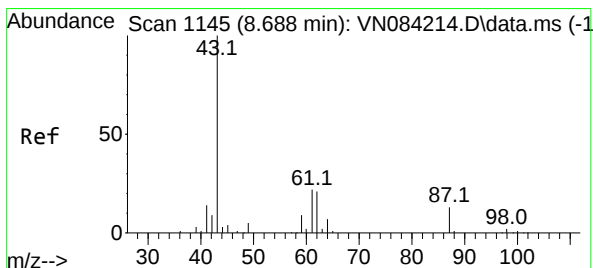
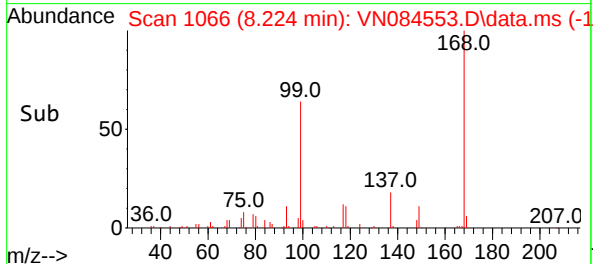
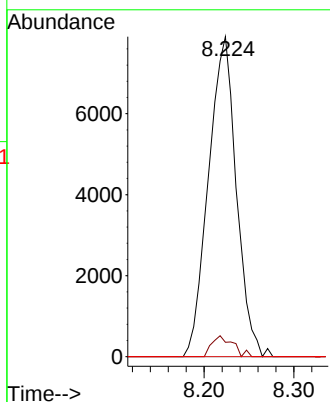


#38  
Carbon Tetrachloride  
Concen: 6.114 ug/l  
RT: 8.224 min Scan# 1106  
Delta R.T. -0.135 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

Instrument :  
MSVOA\_N  
ClientSampleId :

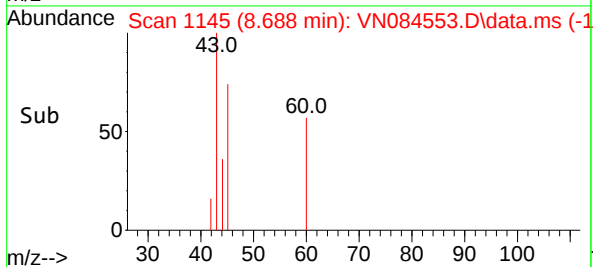
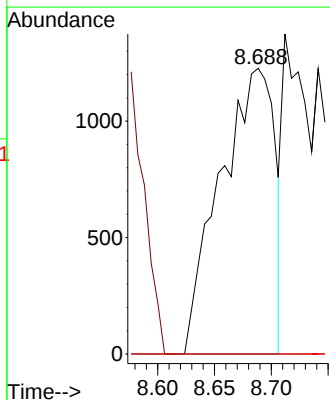
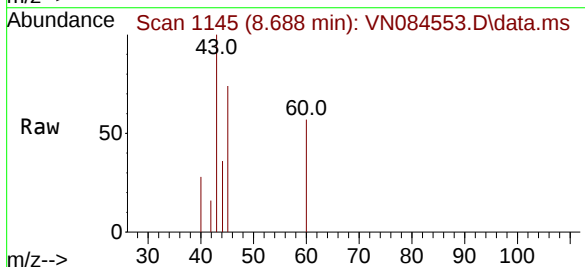


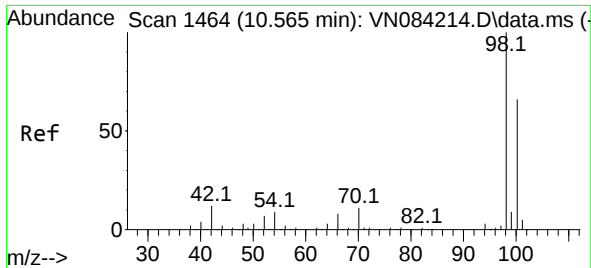
Tgt Ion:117 Resp: 17077  
Ion Ratio Lower Upper  
117 100  
119 4.5 78.7 118.1#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 0.799 ug/l  
RT: 8.688 min Scan# 1145  
Delta R.T. -0.000 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

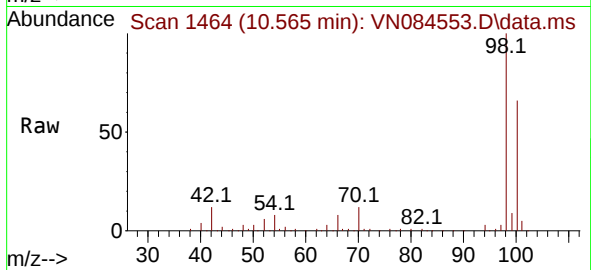
Tgt Ion: 43 Resp: 4086  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 10.3 15.5#



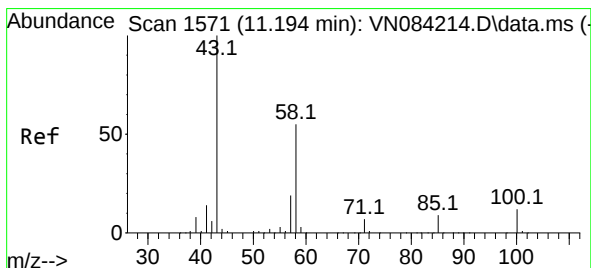
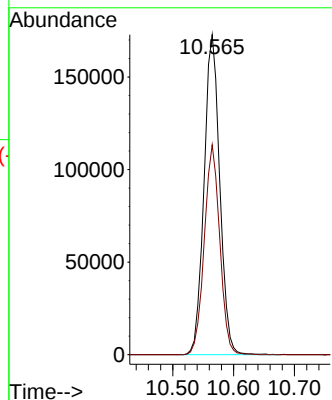
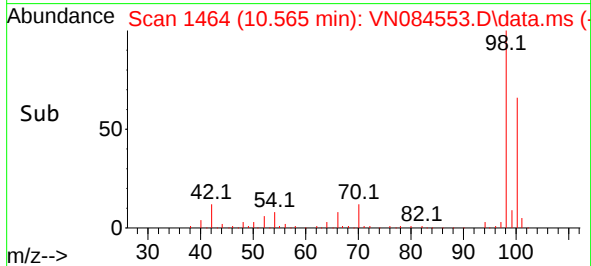


#50  
Toluene-d8  
Concen: 48.116 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

Instrument :  
MSVOA\_N  
ClientSampleId :

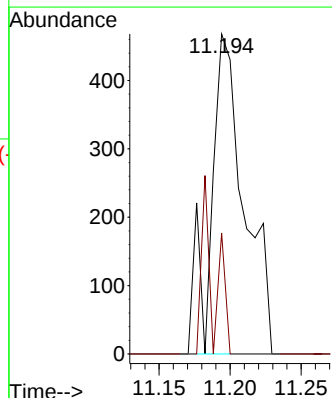
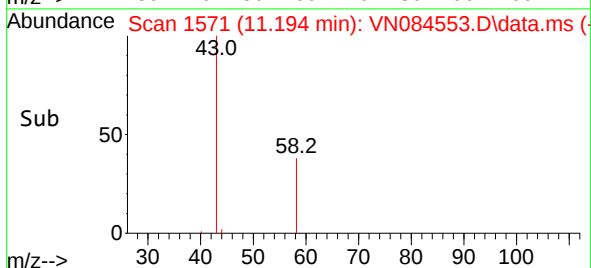
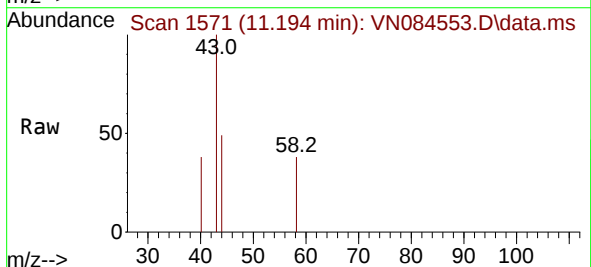


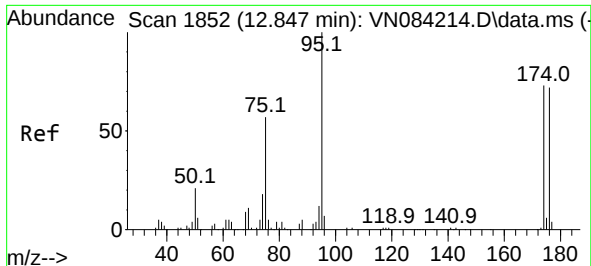
Tgt Ion: 98 Resp: 310297  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.7 79.1



#59  
2-Hexanone  
Concen: 0.413 ug/l  
RT: 11.194 min Scan# 1571  
Delta R.T. -0.000 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

Tgt Ion: 43 Resp: 767  
Ion Ratio Lower Upper  
43 100  
58 20.2 27.3 81.8#

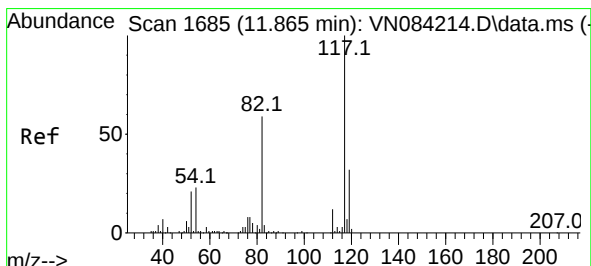
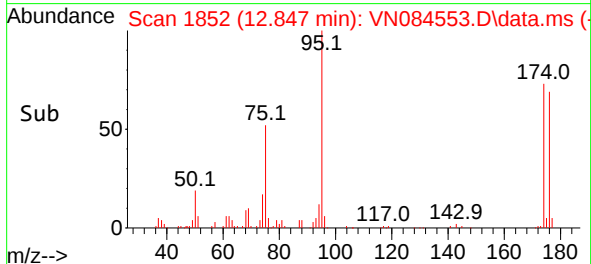
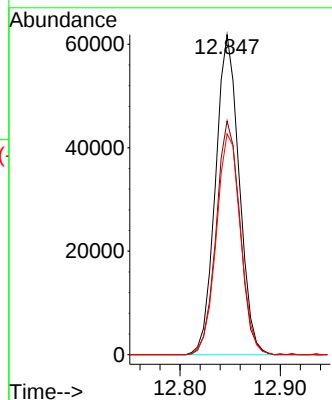
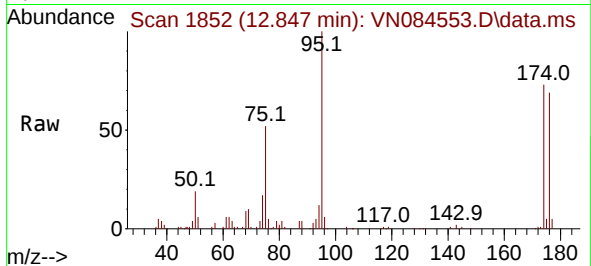




#62  
4-Bromofluorobenzene  
Concen: 43.116 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

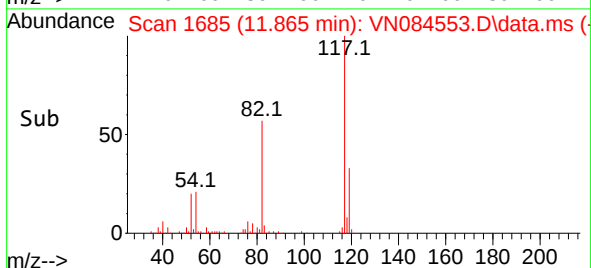
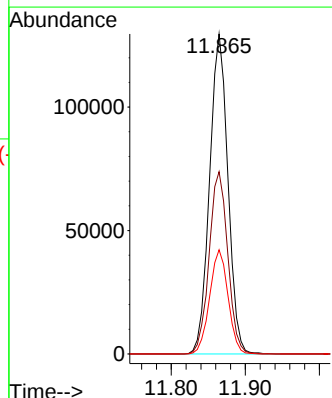
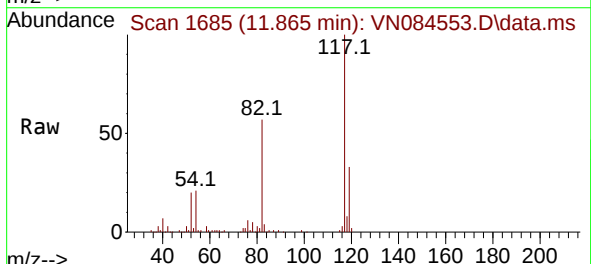
Instrument :  
MSVOA\_N  
ClientSampleId :

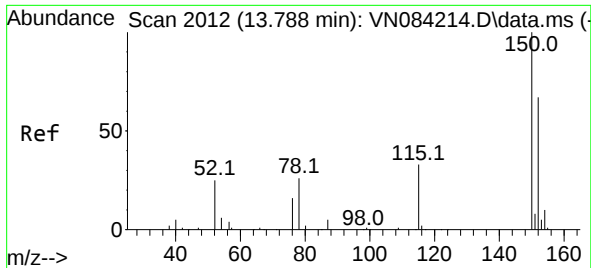
Tgt Ion: 95 Resp: 101297  
Ion Ratio Lower Upper  
95 100  
174 73.4 0.0 145.2  
176 70.7 0.0 140.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

Tgt Ion: 117 Resp: 222415  
Ion Ratio Lower Upper  
117 100  
82 57.0 47.2 70.8  
119 32.6 25.4 38.0

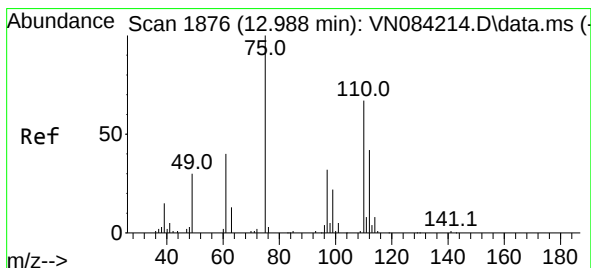
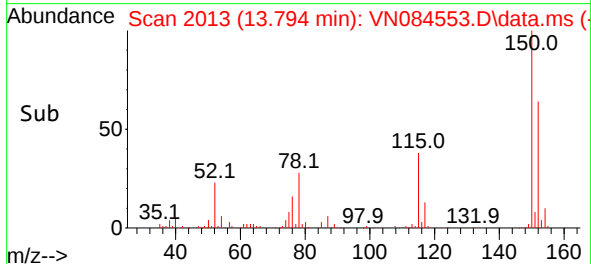
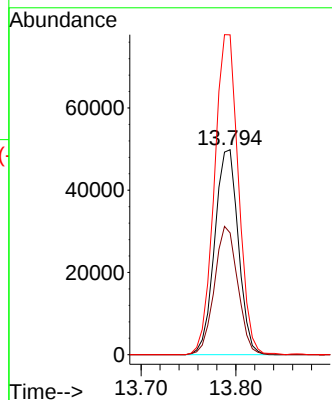
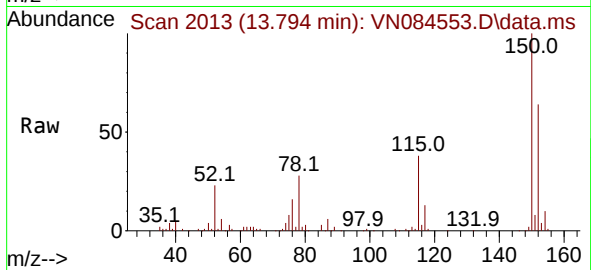




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 2012  
 Delta R.T. 0.006 min  
 Lab File: VN084553.D  
 Acq: 29 Oct 2024 10:36

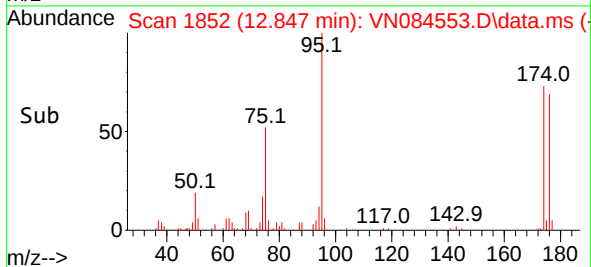
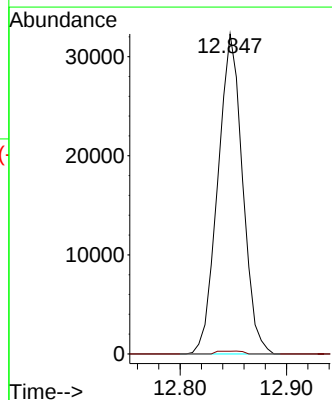
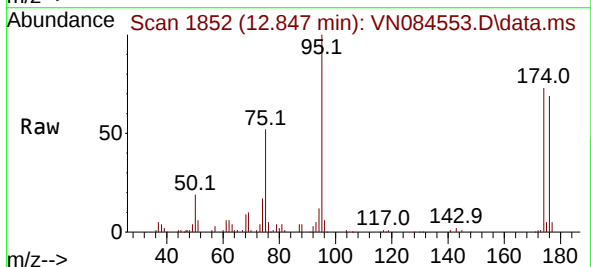
Instrument :  
 MSVOA\_N  
 ClientSampleId :

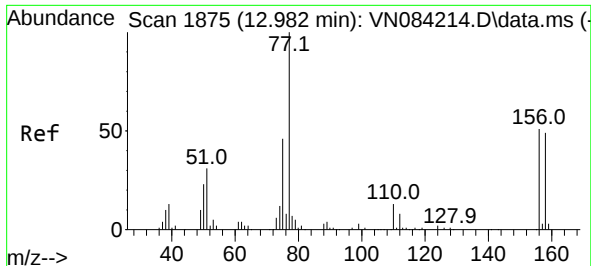
Tgt Ion:152 Resp: 86570  
 Ion Ratio Lower Upper  
 152 100  
 115 61.7 31.3 93.9  
 150 158.3 0.0 349.8



#76  
 1,2,3-Trichloropropane  
 Concen: 29.468 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.141 min  
 Lab File: VN084553.D  
 Acq: 29 Oct 2024 10:36

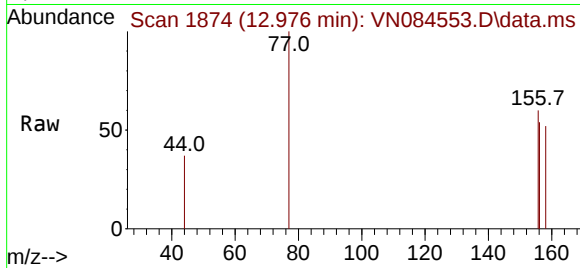
Tgt Ion: 75 Resp: 52080  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 96.9 290.7#



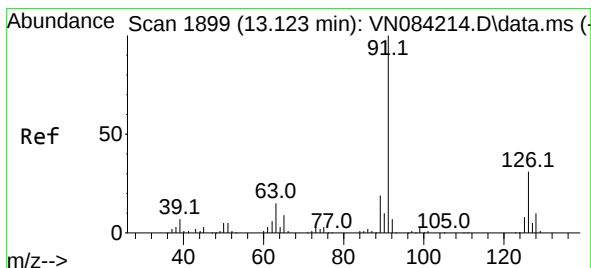
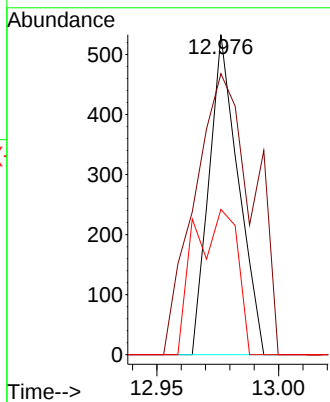
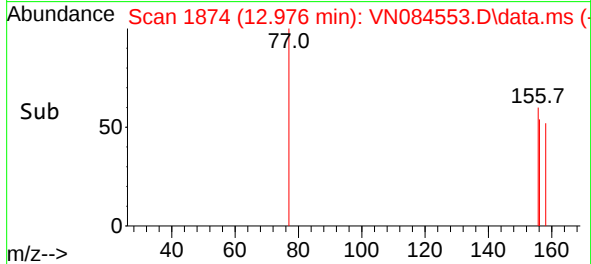


#77  
Bromobenzene  
Concen: 0.280 ug/l  
RT: 12.976 min Scan# 1916  
Delta R.T. -0.006 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

Instrument :  
MSVOA\_N  
ClientSampleId :

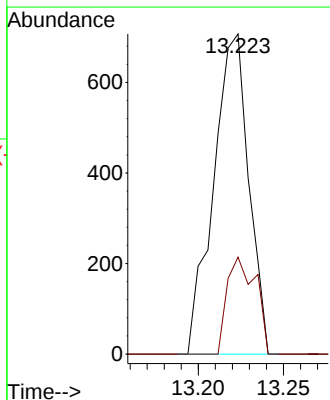
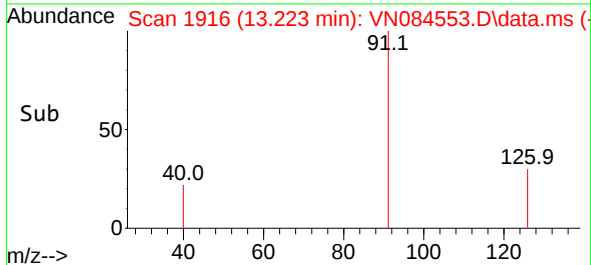
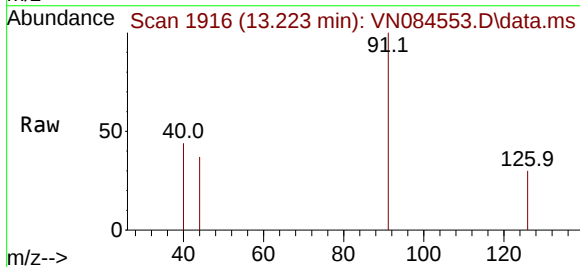


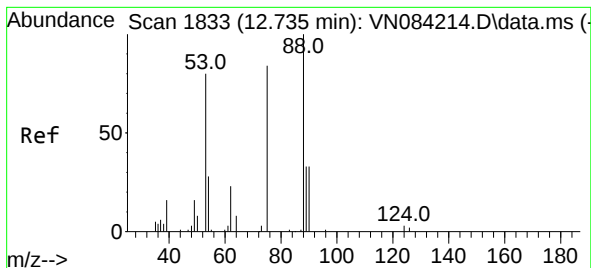
Tgt Ion:156 Resp: 446  
Ion Ratio Lower Upper  
156 100  
77 174.4 115.1 345.3  
158 66.6 48.9 146.8



#79  
2-Chlorotoluene  
Concen: 0.209 ug/l  
RT: 13.223 min Scan# 1916  
Delta R.T. 0.100 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

Tgt Ion: 91 Resp: 1019  
Ion Ratio Lower Upper  
91 100  
126 24.6 15.7 47.1

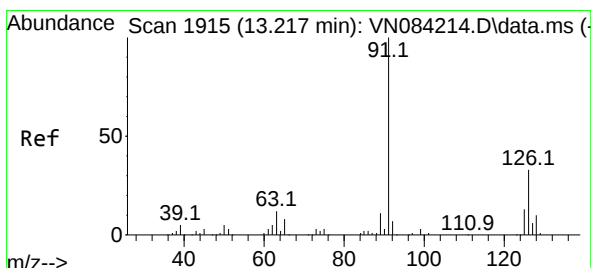
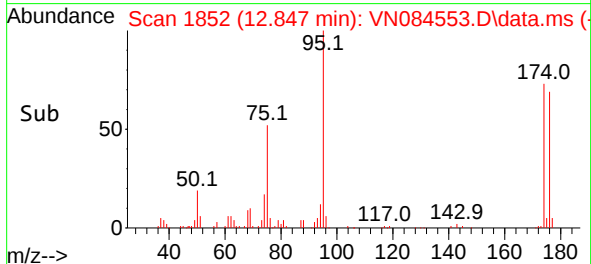
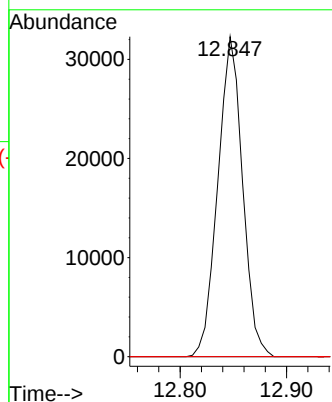
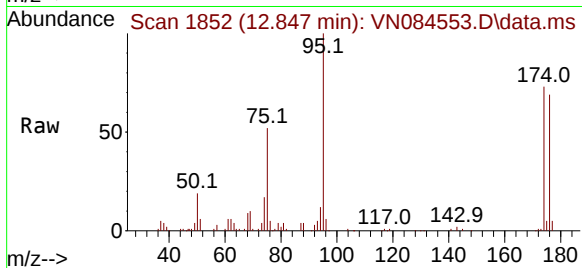




#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.648 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

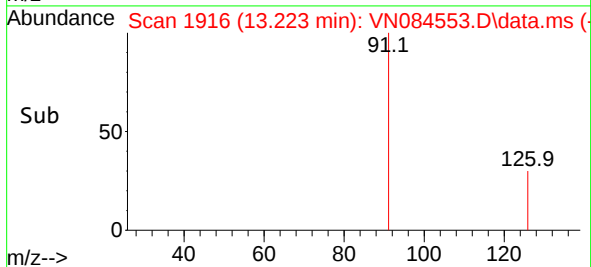
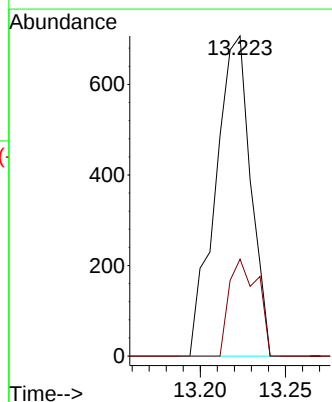
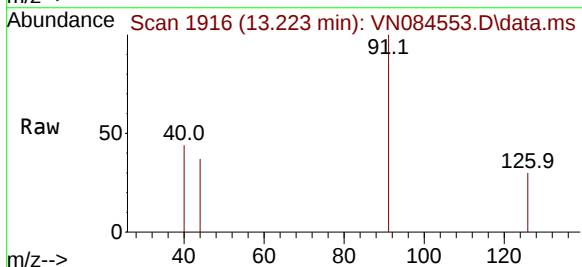
Instrument :  
MSVOA\_N  
ClientSampleId :

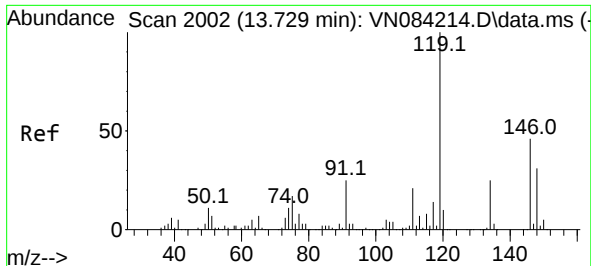
Tgt Ion: 75 Resp: 52080  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 35.5 53.3#



#82  
4-Chlorotoluene  
Concen: 0.207 ug/l  
RT: 13.223 min Scan# 1916  
Delta R.T. 0.006 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

Tgt Ion: 91 Resp: 1019  
Ion Ratio Lower Upper  
91 100  
126 24.6 15.7 47.1





#87

1,3-Dichlorobenzene

Concen: 0.330 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN084553.D

Acq: 29 Oct 2024 10:36

Instrument :

MSVOA\_N

ClientSampleId :

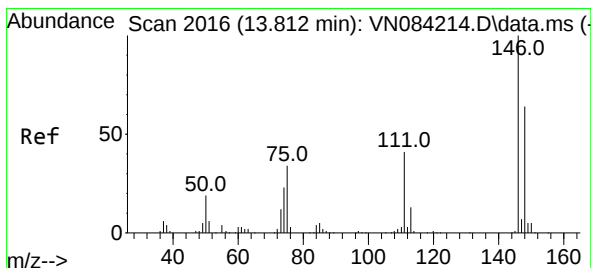
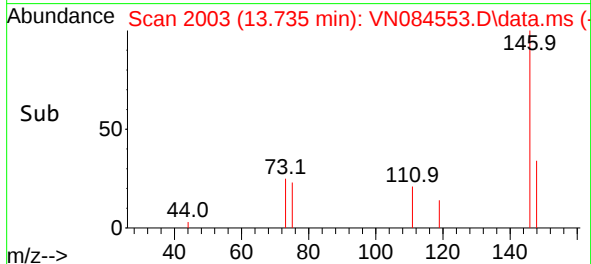
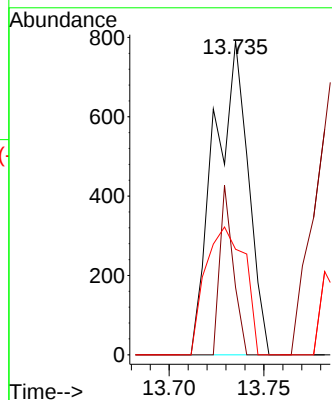
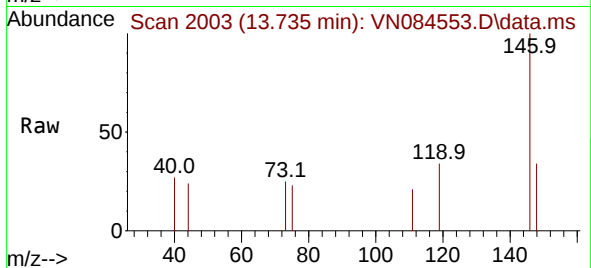
Tgt Ion:146 Resp: 987

Ion Ratio Lower Upper

146 100

111 21.4 21.8 65.3#

148 47.1 31.9 95.7



#88

1,4-Dichlorobenzene

Concen: 0.327 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.077 min

Lab File: VN084553.D

Acq: 29 Oct 2024 10:36

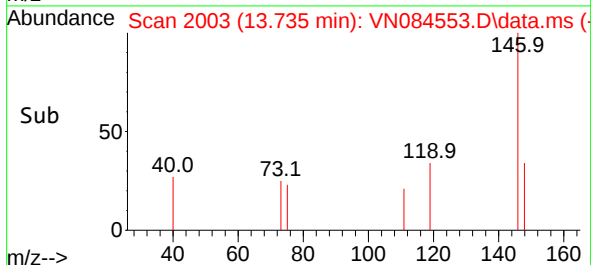
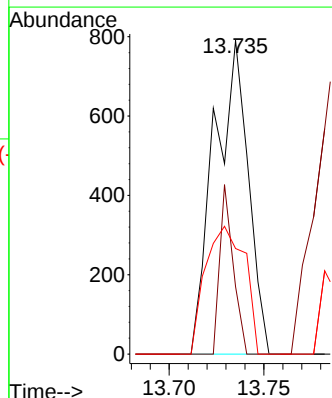
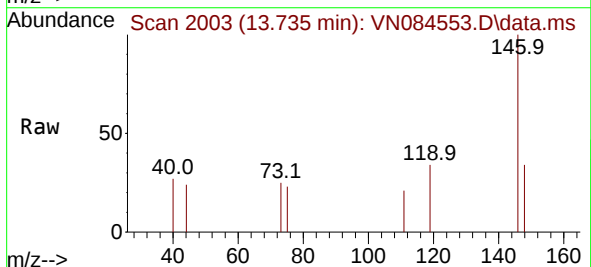
Tgt Ion:146 Resp: 987

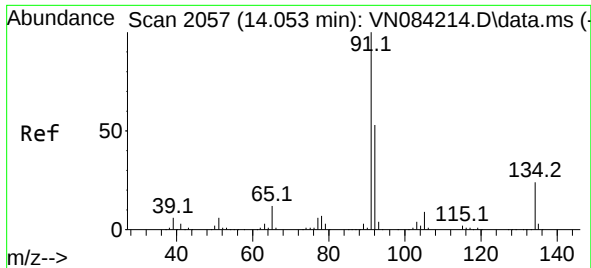
Ion Ratio Lower Upper

146 100

111 21.4 21.2 63.6

148 47.1 31.9 95.9

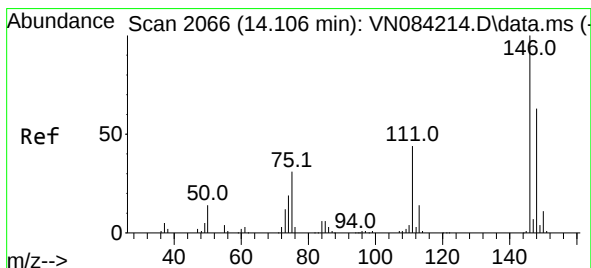
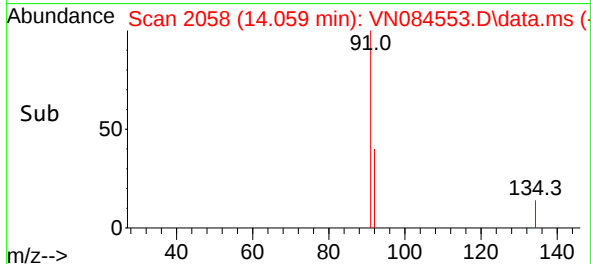
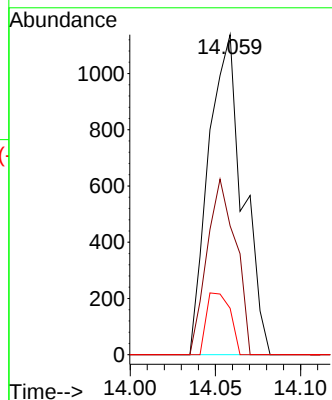
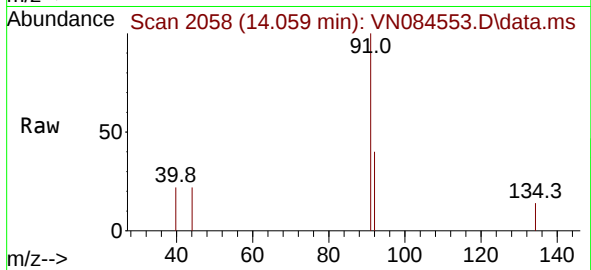




#89  
n-Butylbenzene  
Concen: 0.332 ug/l  
RT: 14.059 min Scan# 2057  
Delta R.T. 0.006 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

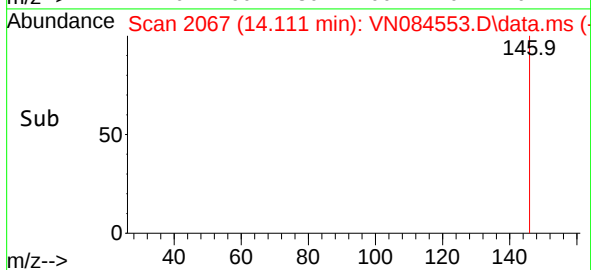
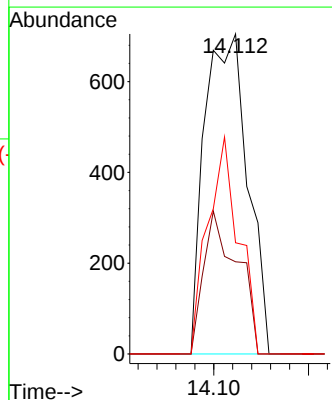
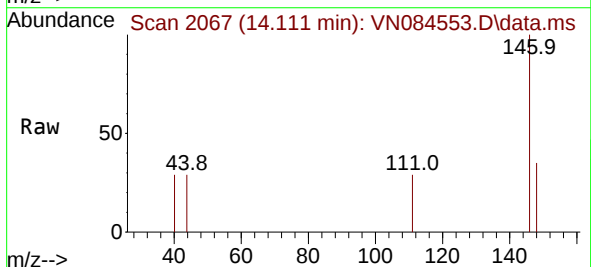
Instrument :  
MSVOA\_N  
ClientSampleId :

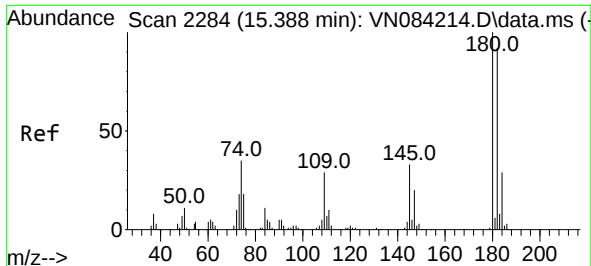
Tgt Ion: 91 Resp: 1593  
Ion Ratio Lower Upper  
91 100  
92 46.0 26.6 79.7  
134 13.3 12.3 36.9



#91  
1,2-Dichlorobenzene  
Concen: 0.379 ug/l  
RT: 14.111 min Scan# 2067  
Delta R.T. 0.006 min  
Lab File: VN084553.D  
Acq: 29 Oct 2024 10:36

Tgt Ion: 146 Resp: 1111  
Ion Ratio Lower Upper  
146 100  
111 35.1 22.0 66.0  
148 48.7 32.1 96.3





#93

1,2,4-Trichlorobenzene

Concen: 0.905 ug/l

RT: 15.400 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN084553.D

Acq: 29 Oct 2024 10:36

Instrument :

MSVOA\_N

ClientSampleId :

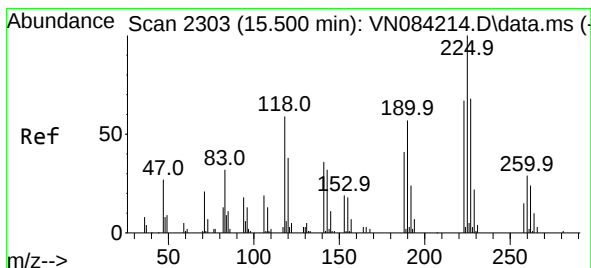
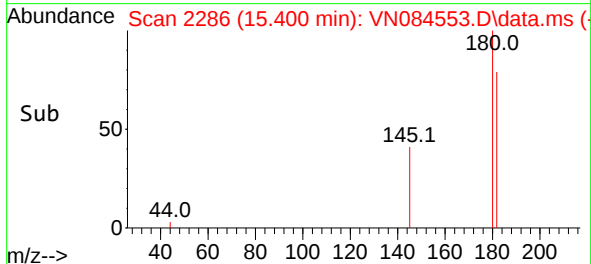
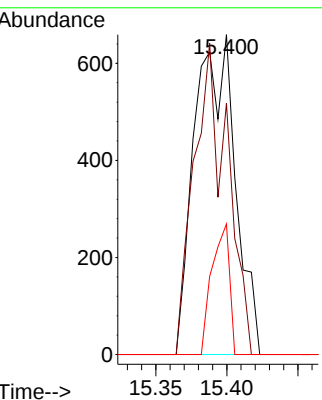
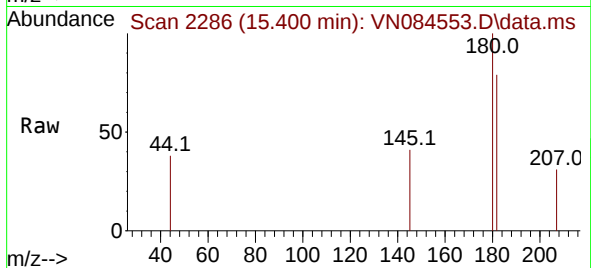
Tgt Ion:180 Resp: 1306

Ion Ratio Lower Upper

180 100

182 79.9 47.0 141.0

145 17.6 16.4 49.4



#94

Hexachlorobutadiene

Concen: 0.968 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN084553.D

Acq: 29 Oct 2024 10:36

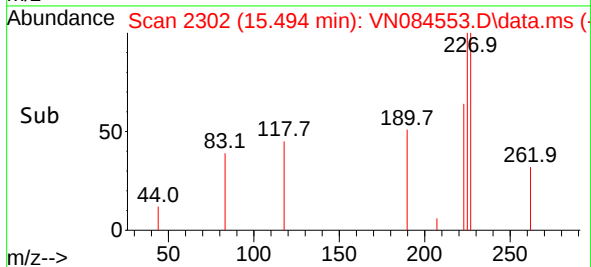
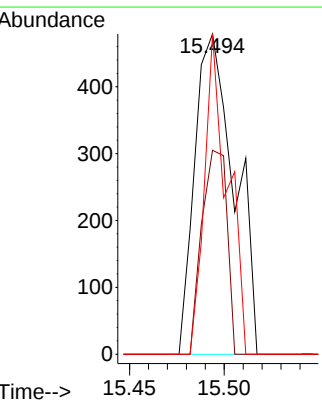
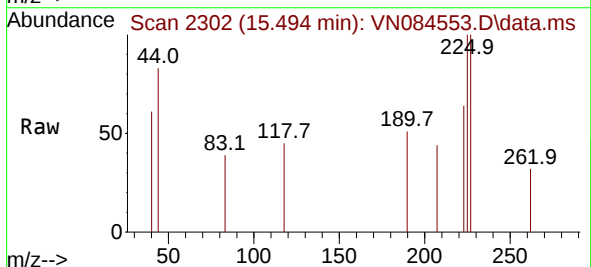
Tgt Ion:225 Resp: 697

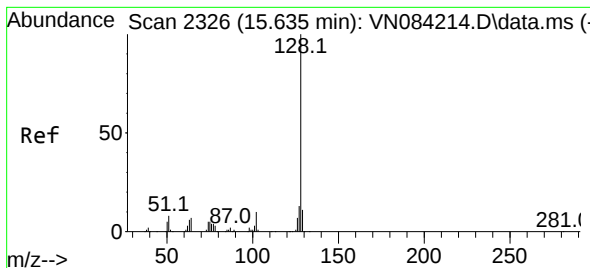
Ion Ratio Lower Upper

225 100

223 40.3 32.4 97.2

227 58.4 32.4 97.0





#95

Naphthalene

Concen: 0.864 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN084553.D

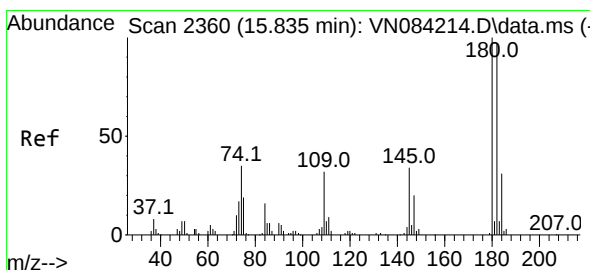
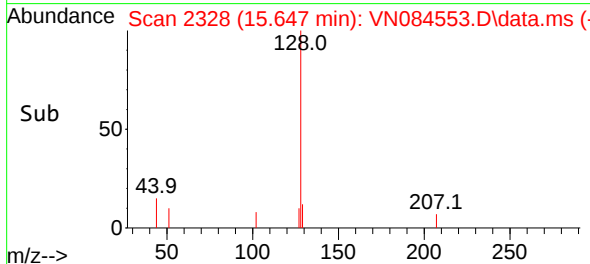
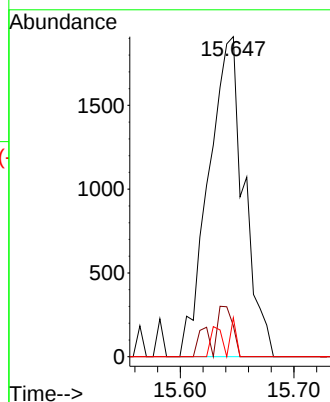
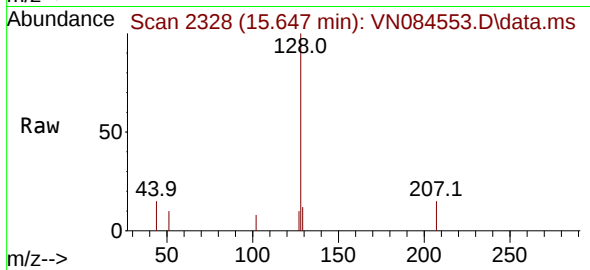
Acq: 29 Oct 2024 10:36

Instrument :

MSVOA\_N

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:128 | Resp: | 4136       |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 127         | 9.6   | 10.5 15.7# |
| 129         | 2.9   | 8.7 13.1#  |



#96

1,2,3-Trichlorobenzene

Concen: 0.969 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. 0.012 min

Lab File: VN084553.D

Acq: 29 Oct 2024 10:36

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 1401       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 98.9  | 48.2 144.6 |
| 145         | 27.8  | 17.3 51.9  |

