

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110524\  
 Data File : VN084675.D  
 Acq On : 05 Nov 2024 09:54  
 Operator : JC\MD  
 Sample : VN1105WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 06 00:23:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 18:45:38 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.218  | 168  | 180716   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.100  | 114  | 311848   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 270831   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152  | 117706   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.577  | 65    | 127725   | 48.934   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 97.860% |
| 35) Dibromofluoromethane    | 8.165  | 113   | 102970   | 48.782   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 97.560% |
| 50) Toluene-d8              | 10.565 | 98    | 357972   | 46.038   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 92.080% |
| 62) 4-Bromofluorobenzene    | 12.847 | 95    | 133462   | 45.926   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | =    | 91.860% |

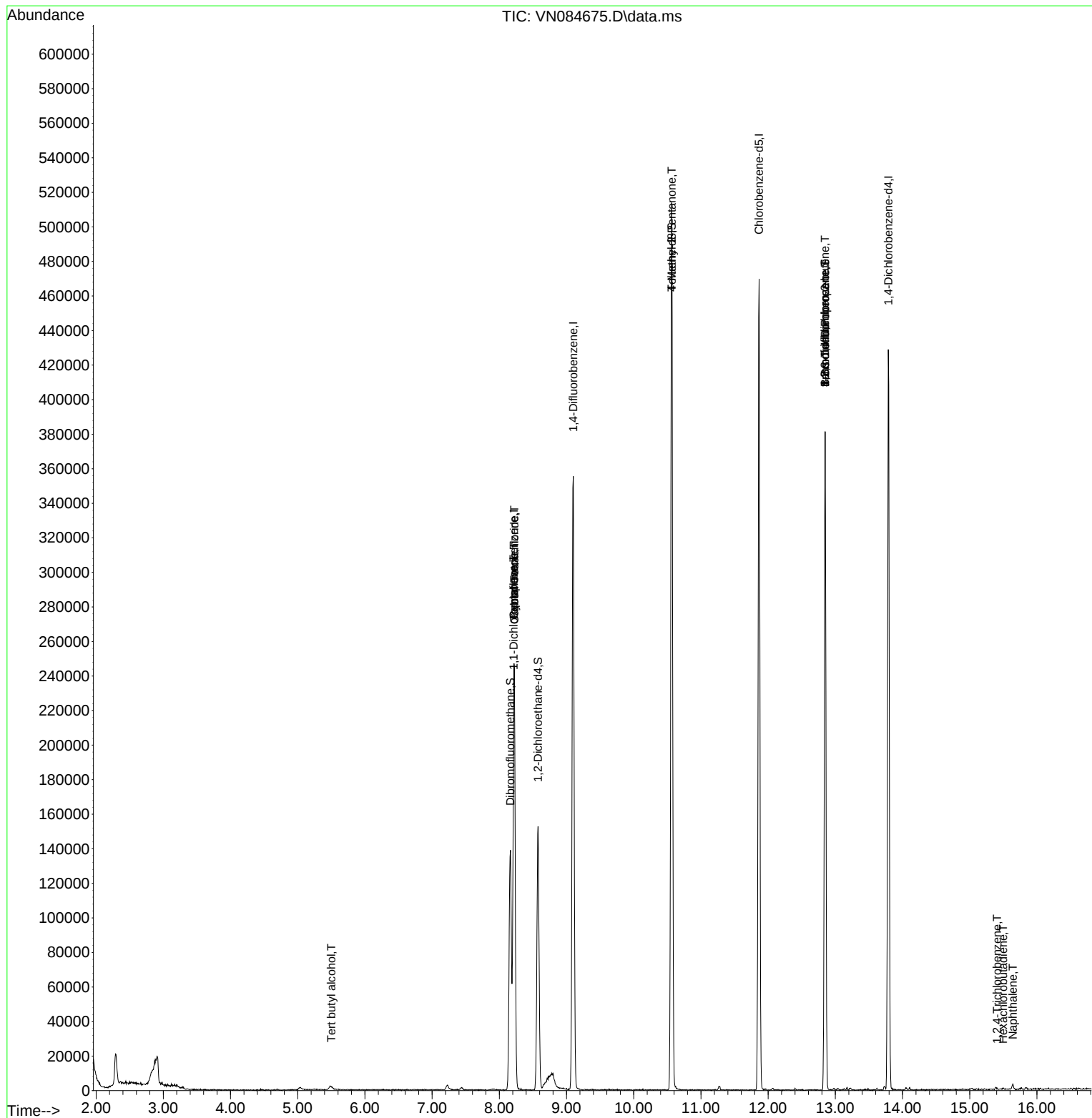
|                               |        |     |        |           |        |    |
|-------------------------------|--------|-----|--------|-----------|--------|----|
| Target Compounds              |        |     | Qvalue |           |        |    |
| 3) Chloromethane              | 2.359  | 50  | 787    | Below Cal | #      | 41 |
| 6) Chloroethane               | 3.136  | 64  | 285    | Below Cal | #      | 45 |
| 11) Tert butyl alcohol        | 5.500  | 59  | 1179   | 3.422     | ug/l # | 73 |
| 16) Acetone                   | 4.459  | 43  | 135    | Below Cal | #      | 44 |
| 18) Methyl Acetate            | 5.036  | 43  | 3245   | Below Cal | #      | 60 |
| 31) Cyclohexane               | 8.218  | 56  | 3916   | 1.087     | ug/l # | 5  |
| 36) 1,1-Dichloropropene       | 8.212  | 75  | 15211  | 5.196     | ug/l # | 48 |
| 38) Carbon Tetrachloride      | 8.224  | 117 | 19529  | 5.968     | ug/l # | 15 |
| 43) Isopropyl Acetate         | 8.677  | 43  | 3269   | Below Cal | #      | 56 |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43  | 1719   | 0.679     | ug/l # | 1  |
| 71) Bromoform                 | 12.847 | 173 | 868    | 0.547     | ug/l # | 1  |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75  | 69143  | 29.386    | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75  | 69143  | 69.716    | ug/l # | 11 |
| 88) 1,4-Dichlorobenzene       | 13.729 | 146 | 856    | Below Cal |        | 86 |
| 93) 1,2,4-Trichlorobenzene    | 15.406 | 180 | 625    | 0.275     | ug/l # | 79 |
| 94) Hexachlorobutadiene       | 15.494 | 225 | 339    | 0.339     | ug/l # | 30 |
| 95) Naphthalene               | 15.641 | 128 | 3823   | 0.561     | ug/l # | 91 |

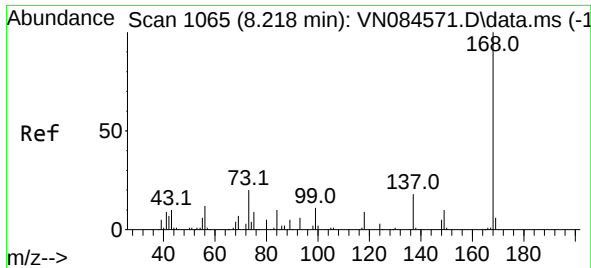
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110524\  
Data File : VN084675.D  
Acq On : 05 Nov 2024 09:54  
Operator : JC\MD  
Sample : VN1105WBL01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Nov 06 00:23:18 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 31 18:45:38 2024  
Response via : Initial Calibration

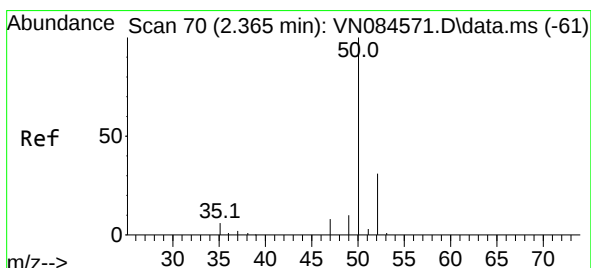
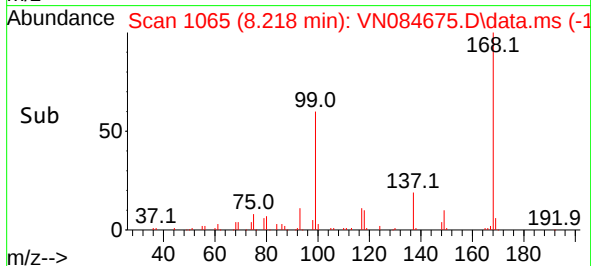
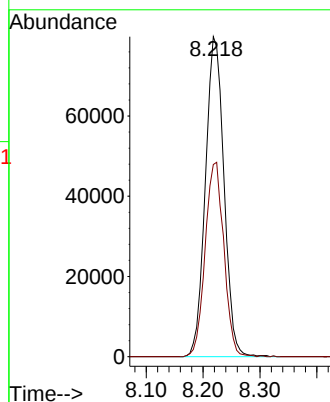
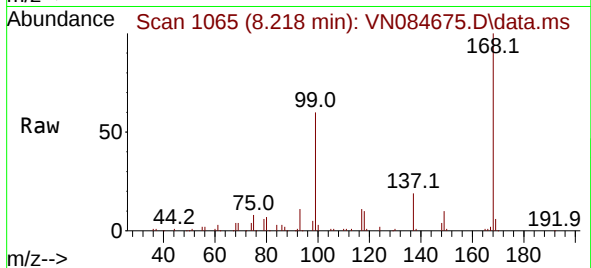




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.006 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

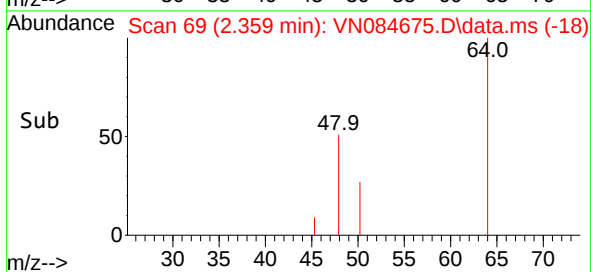
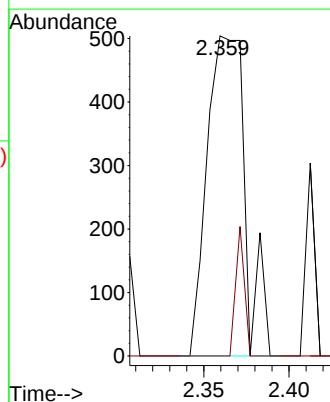
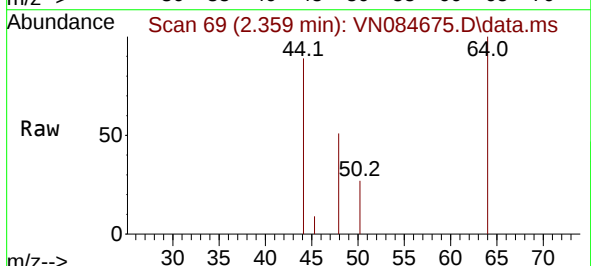
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:168 Resp: 180716  
Ion Ratio Lower Upper  
168 100  
99 60.1 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

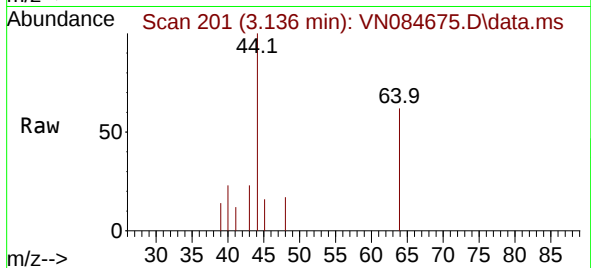
Tgt Ion: 50 Resp: 787  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#



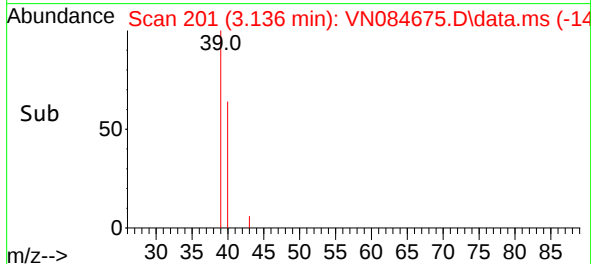
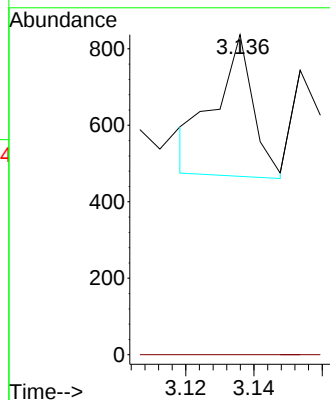


#6  
Chloroethane  
Concen: Below Cal  
RT: 3.136 min Scan# 201  
Delta R.T. 0.018 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

Instrument :  
MSVOA\_N  
ClientSampleId :

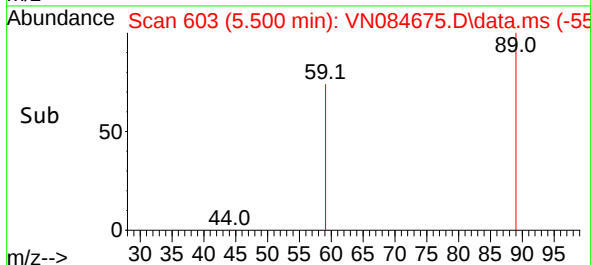
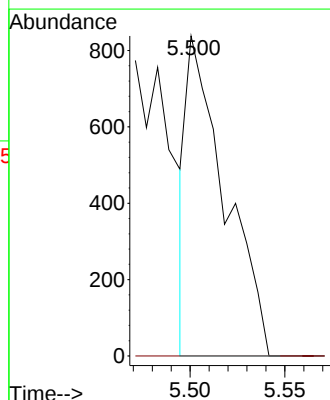
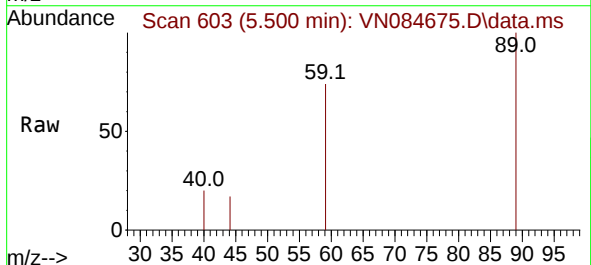


Tgt Ion: 64 Resp: 285  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#



#11  
Tert butyl alcohol  
Concen: 3.422 ug/l  
RT: 5.500 min Scan# 603  
Delta R.T. -0.023 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

Tgt Ion: 59 Resp: 1179  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#

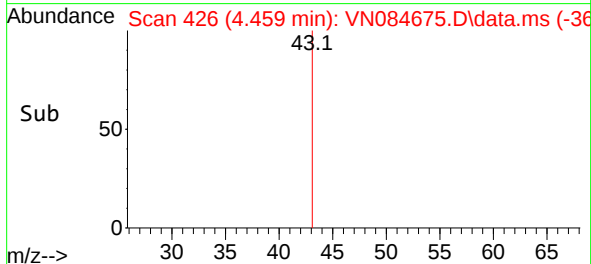
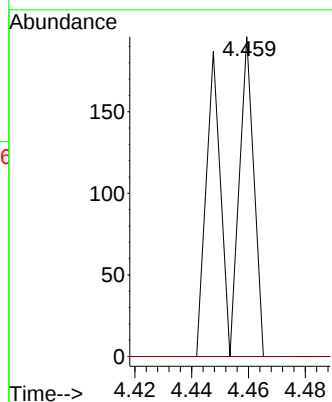
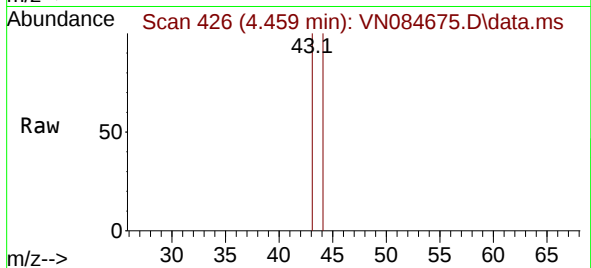




#16  
Acetone  
Concen: Below Cal  
RT: 4.459 min Scan# 41  
Delta R.T. 0.035 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

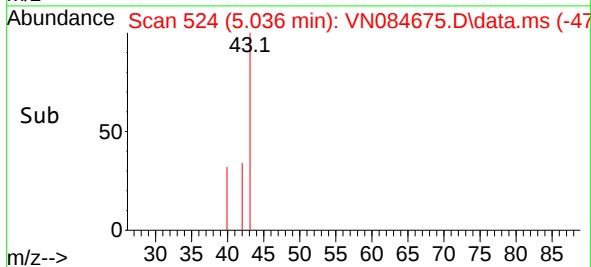
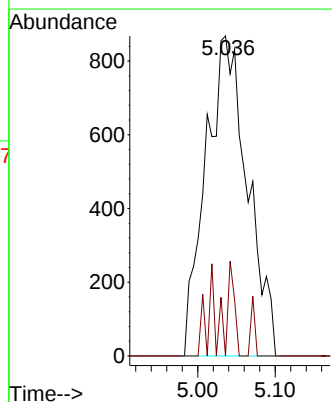
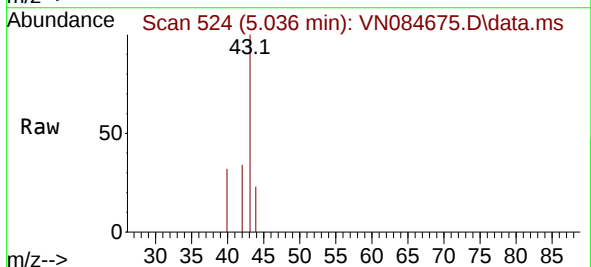
Instrument :  
MSVOA\_N  
ClientSampleId :

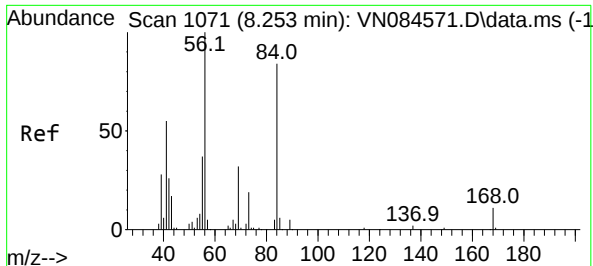
Tgt Ion: 43 Resp: 135  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.4 36.6#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 5.036 min Scan# 524  
Delta R.T. 0.018 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

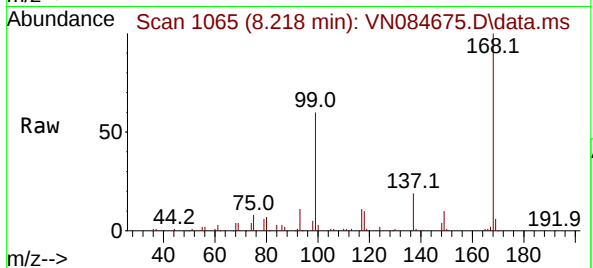
Tgt Ion: 43 Resp: 3245  
Ion Ratio Lower Upper  
43 100  
74 4.5 19.2 28.8#



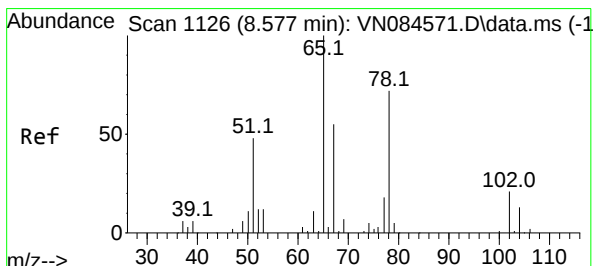
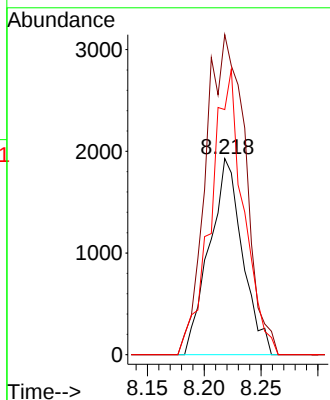
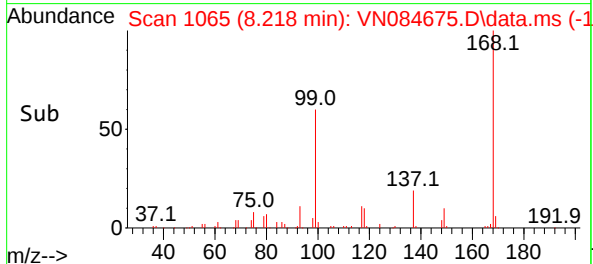


#31  
Cyclohexane  
Concen: 1.087 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.035 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

Instrument :  
MSVOA\_N  
ClientSampleId :

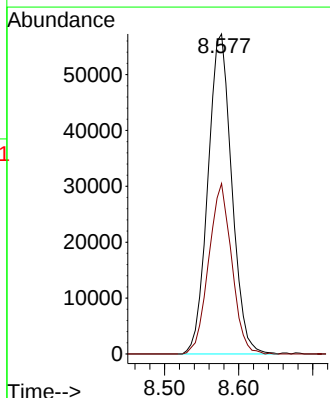
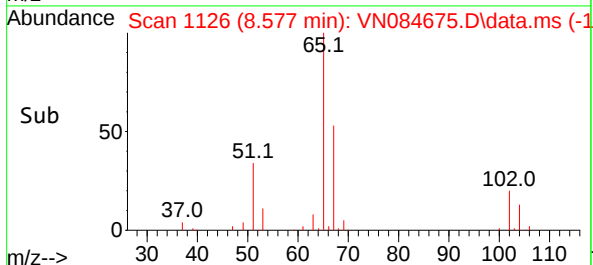
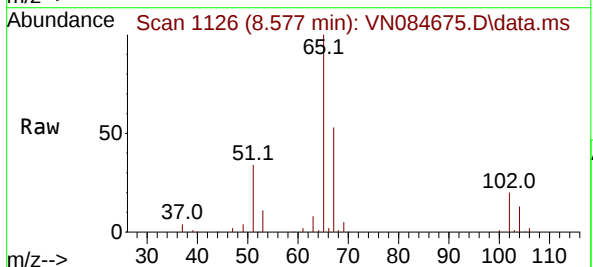


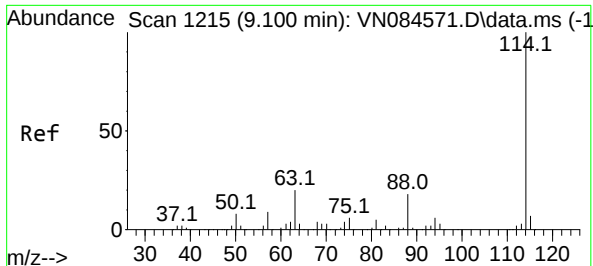
Tgt Ion: 56 Resp: 3916  
Ion Ratio Lower Upper  
56 100  
69 163.1 23.8 35.6#  
84 124.9 68.8 103.2#



#33  
1,2-Dichloroethane-d4  
Concen: 48.934 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

Tgt Ion: 65 Resp: 127725  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084675.D

Acq: 05 Nov 2024 09:54

Instrument :

MSVOA\_N

ClientSampleId :

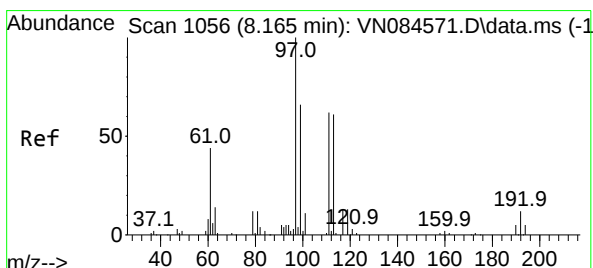
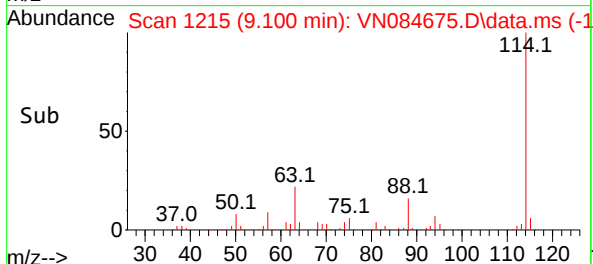
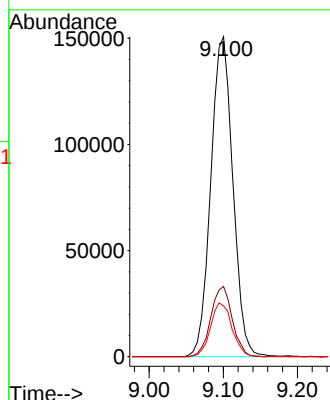
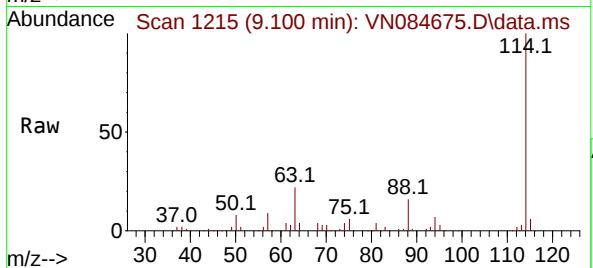
Tgt Ion:114 Resp: 311848

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.8

88 15.9 0.0 31.6



#35

Dibromofluoromethane

Concen: 48.782 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084675.D

Acq: 05 Nov 2024 09:54

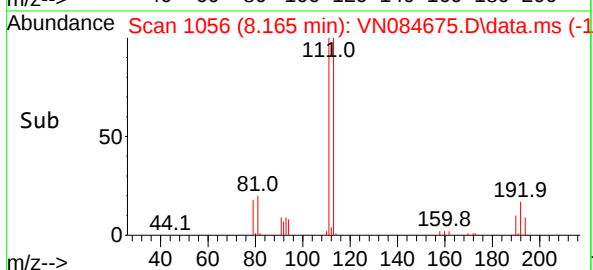
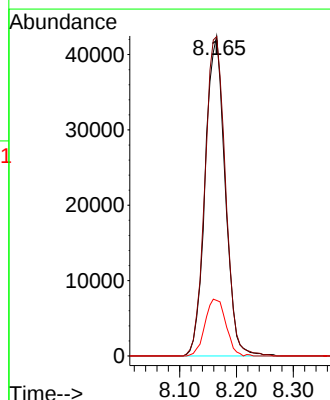
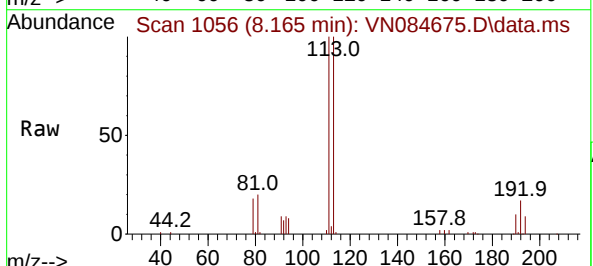
Tgt Ion:113 Resp: 102970

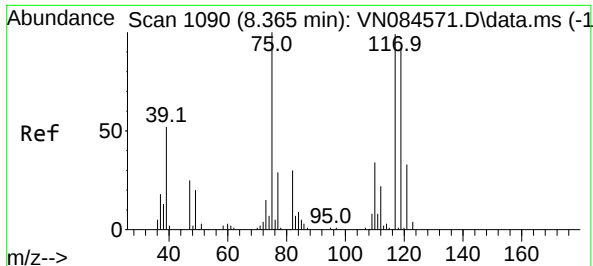
Ion Ratio Lower Upper

113 100

111 102.7 83.3 124.9

192 18.7 13.5 20.3





#36

1,1-Dichloropropene

Concen: 5.196 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.159 min

Lab File: VN084675.D

Acq: 05 Nov 2024 09:54

Instrument :

MSVOA\_N

ClientSampleId :

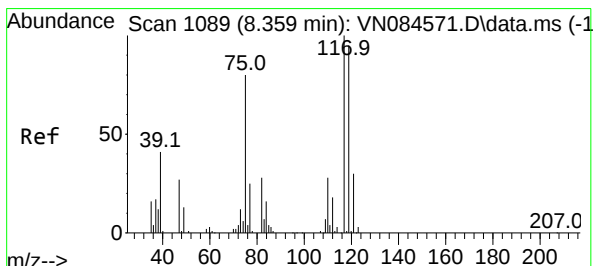
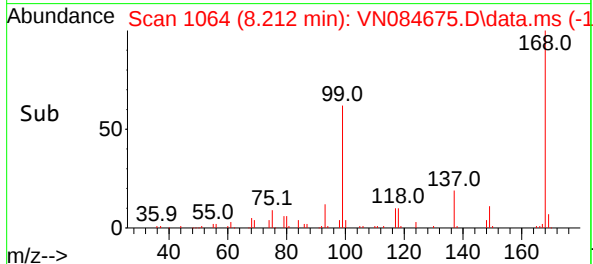
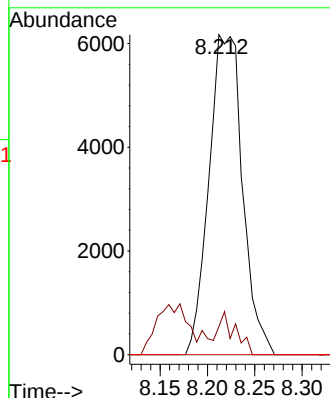
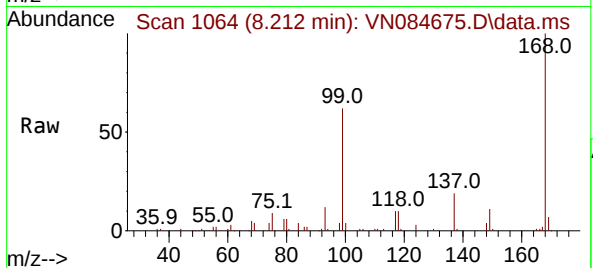
Tgt Ion: 75 Resp: 15211

Ion Ratio Lower Upper

75 100

110 6.6 16.9 50.7#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 5.968 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084675.D

Acq: 05 Nov 2024 09:54

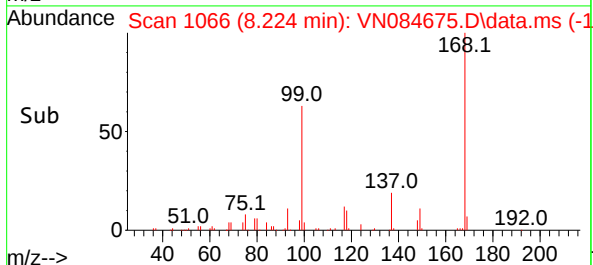
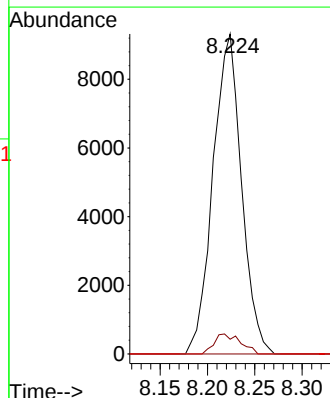
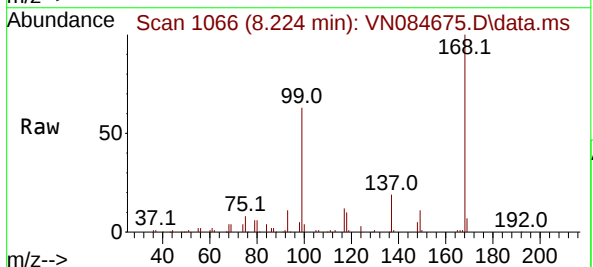
Tgt Ion: 117 Resp: 19529

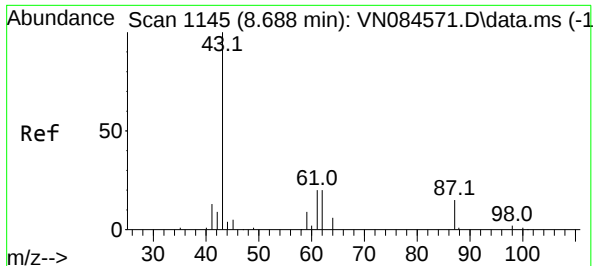
Ion Ratio Lower Upper

117 100

119 4.6 78.7 118.1#

121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: Below Cal

RT: 8.677 min Scan# 1143

Delta R.T. -0.011 min

Lab File: VN084675.D

Acq: 05 Nov 2024 09:54

Instrument :

MSVOA\_N

ClientSampleId :

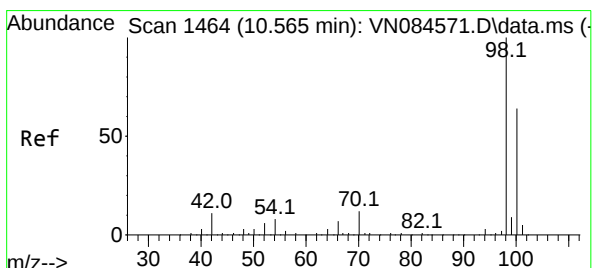
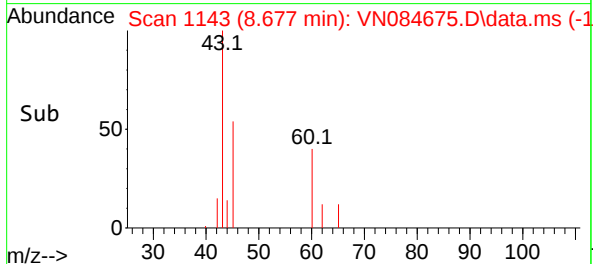
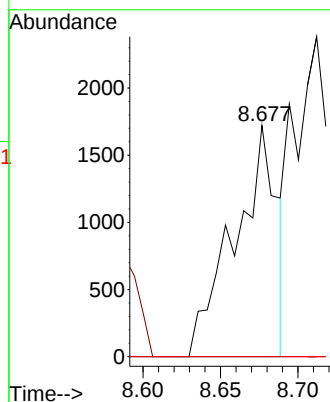
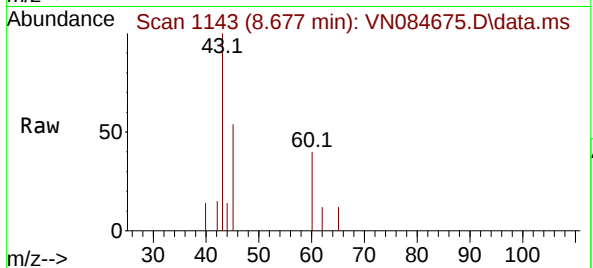
Tgt Ion: 43 Resp: 3269

Ion Ratio Lower Upper

43 100

61 0.0 20.4 30.6#

87 0.0 10.3 15.5#



#50

Toluene-d8

Concen: 46.038 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084675.D

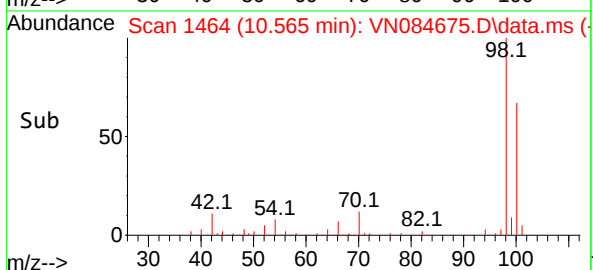
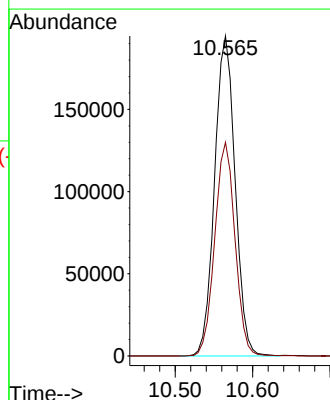
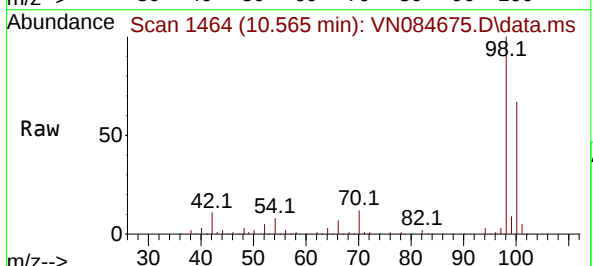
Acq: 05 Nov 2024 09:54

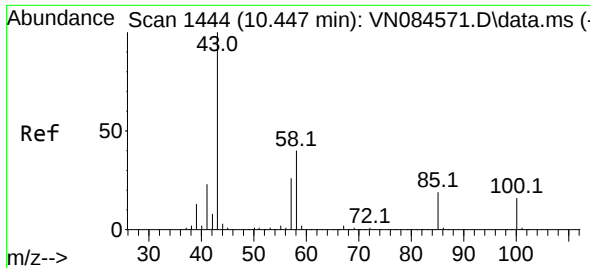
Tgt Ion: 98 Resp: 357972

Ion Ratio Lower Upper

98 100

100 66.0 52.7 79.1

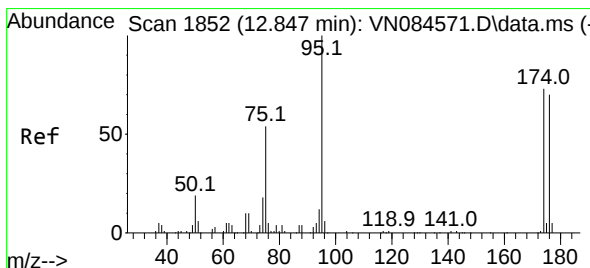
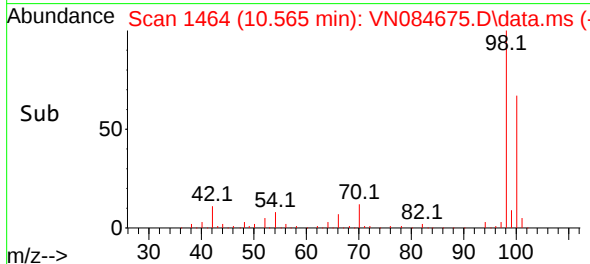
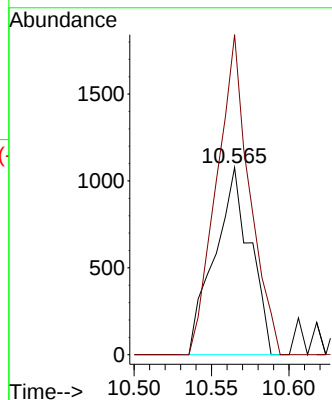
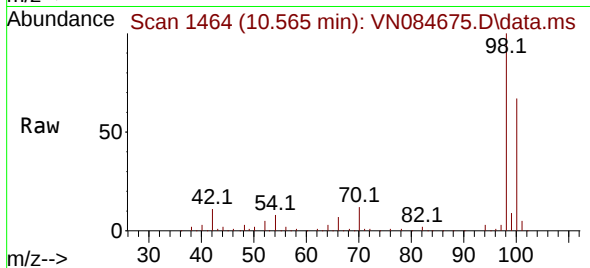




#51  
4-Methyl-2-Pentanone  
Concen: 0.679 ug/l  
RT: 10.565 min Scan# 1444  
Delta R.T. 0.124 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

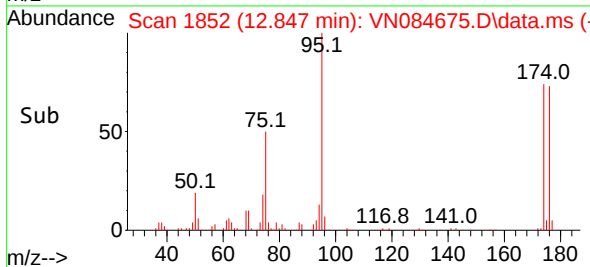
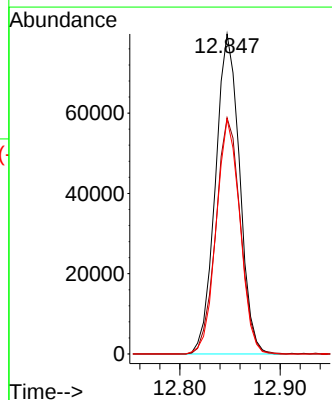
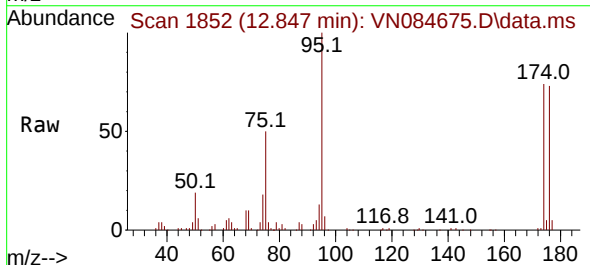
Instrument :  
MSVOA\_N  
ClientSampleId :

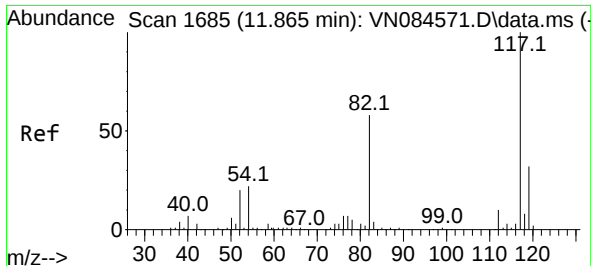
Tgt Ion: 43 Resp: 1719  
Ion Ratio Lower Upper  
43 100  
58 158.6 31.6 47.4#



#62  
4-Bromofluorobenzene  
Concen: 45.926 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

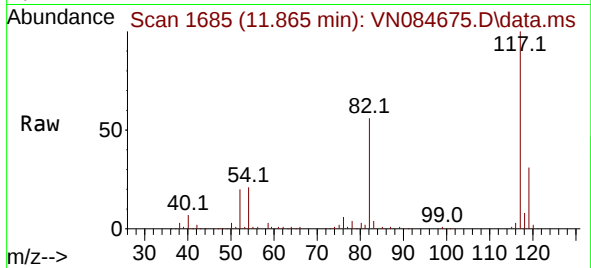
Tgt Ion: 95 Resp: 133462  
Ion Ratio Lower Upper  
95 100  
174 74.8 0.0 145.2  
176 72.0 0.0 140.0



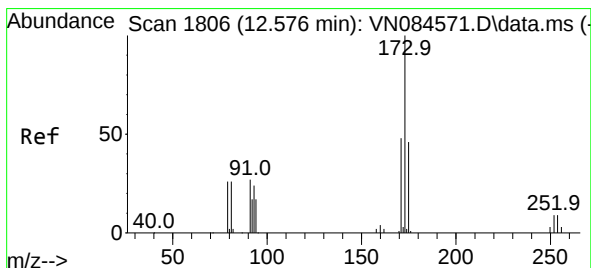
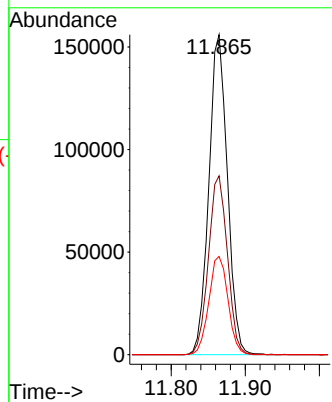
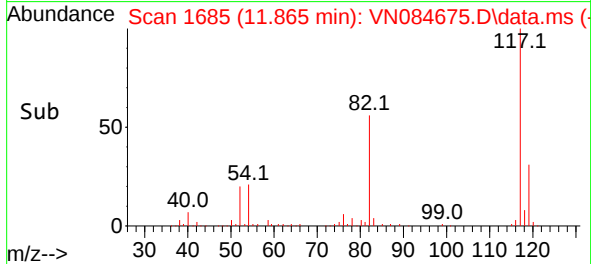


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

Instrument :  
MSVOA\_N  
ClientSampleId :

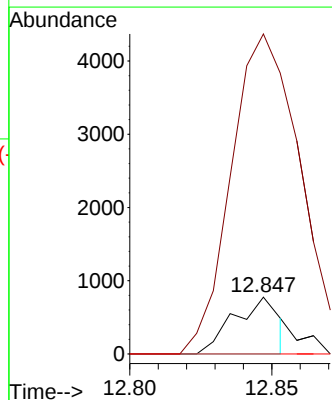
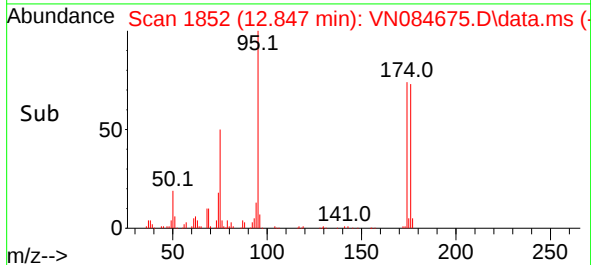
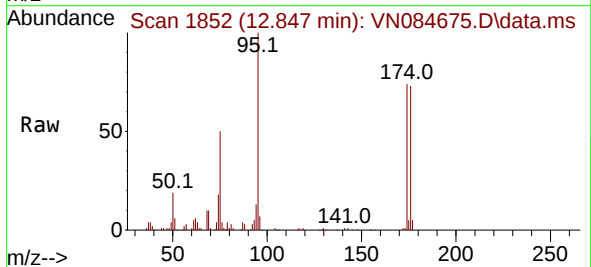


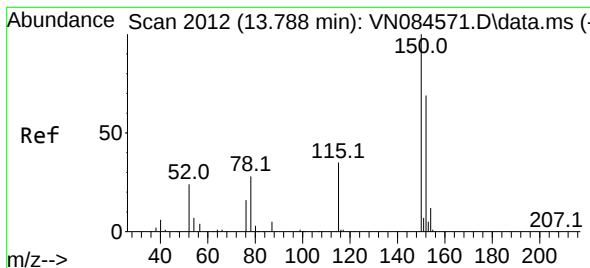
Tgt Ion:117 Resp: 270831  
Ion Ratio Lower Upper  
117 100  
82 55.9 47.2 70.8  
119 30.7 25.4 38.0



#71  
Bromoform  
Concen: 0.547 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.271 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

Tgt Ion:173 Resp: 868  
Ion Ratio Lower Upper  
173 100  
175 638.7 23.5 70.6#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

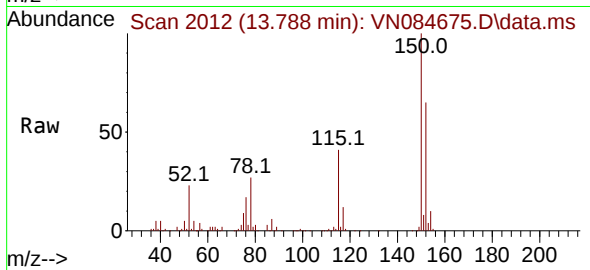
Lab File: VN084675.D

Acq: 05 Nov 2024 09:54

Instrument :

MSVOA\_N

ClientSampleId :



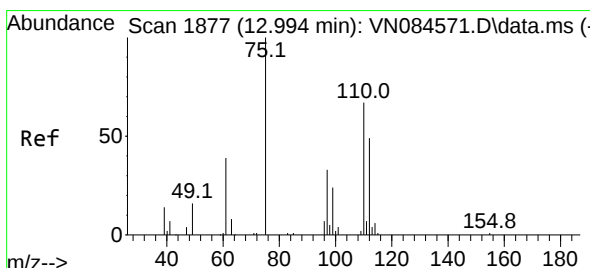
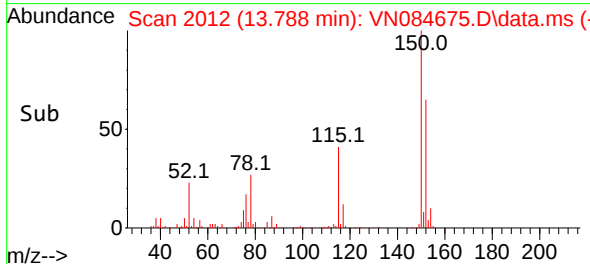
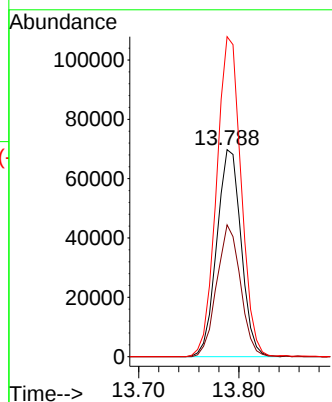
Tgt Ion:152 Resp: 117706

Ion Ratio Lower Upper

152 100

115 62.0 31.3 93.9

150 156.1 0.0 349.8



#76

1,2,3-Trichloropropane

Concen: 29.386 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084675.D

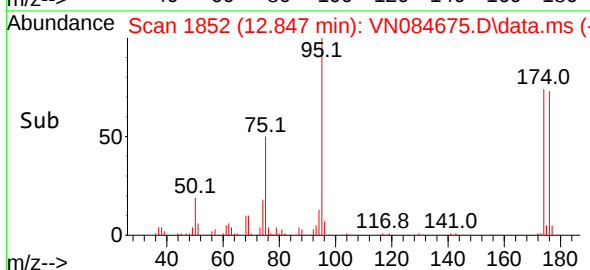
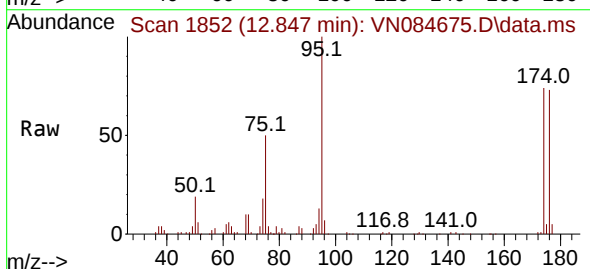
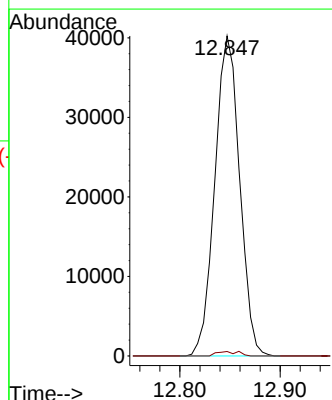
Acq: 05 Nov 2024 09:54

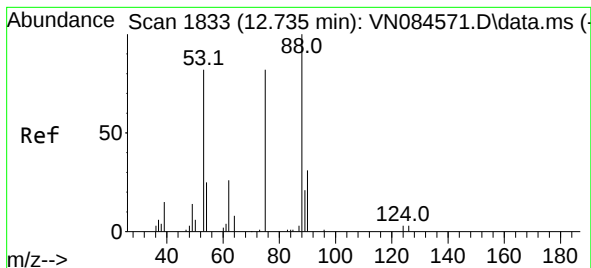
Tgt Ion: 75 Resp: 69143

Ion Ratio Lower Upper

75 100

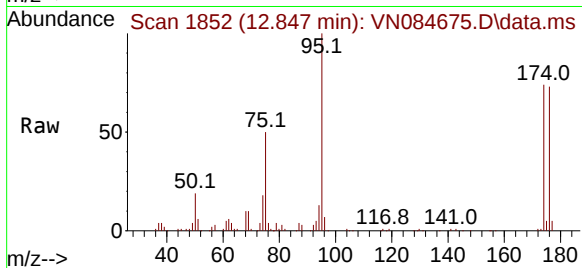
77 1.2 96.9 290.7#



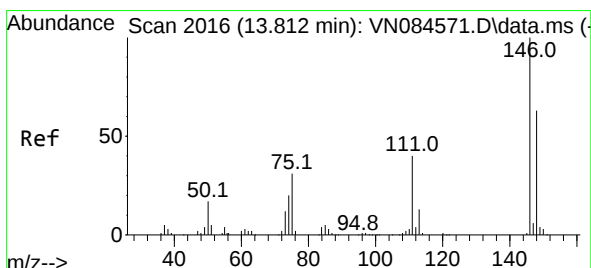
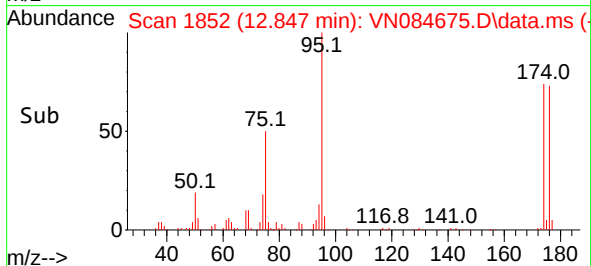
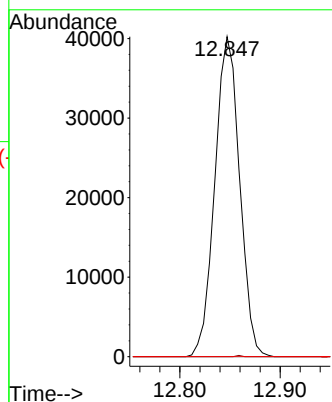


#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.716 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

Instrument :  
MSVOA\_N  
ClientSampleId :

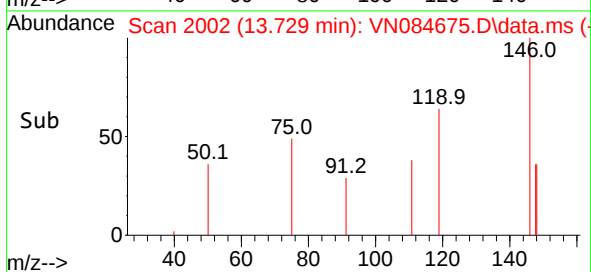
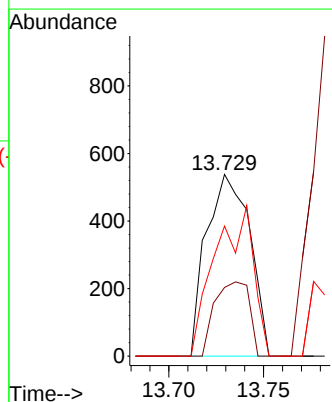
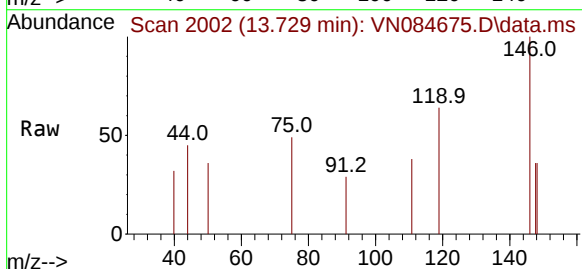


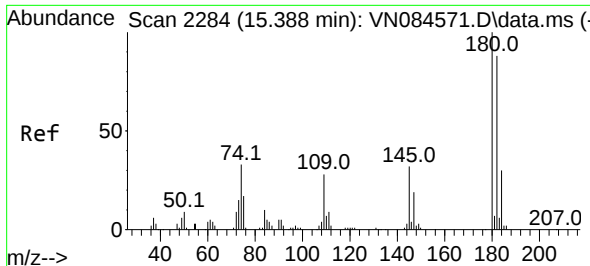
Tgt Ion: 75 Resp: 69143  
Ion Ratio Lower Upper  
75 100  
53 0.1 78.0 117.0#  
89 0.0 35.5 53.3#



#88  
1,4-Dichlorobenzene  
Concen: Below Cal  
RT: 13.729 min Scan# 2002  
Delta R.T. -0.083 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

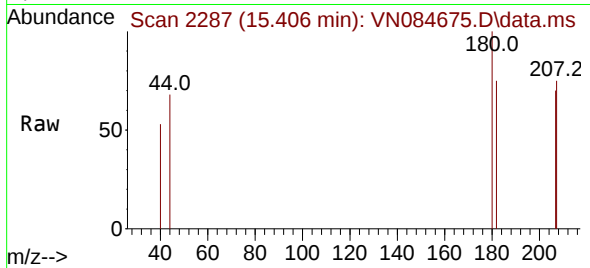
Tgt Ion:146 Resp: 856  
Ion Ratio Lower Upper  
146 100  
111 32.6 21.2 63.6  
148 73.5 31.9 95.9



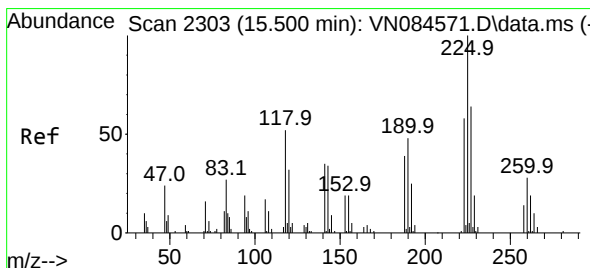
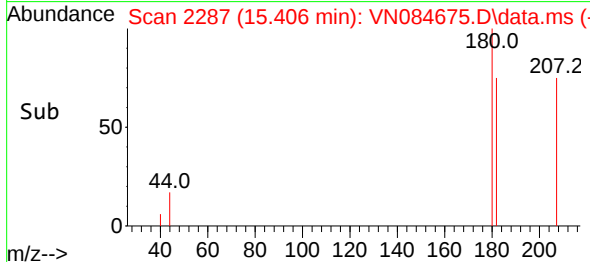
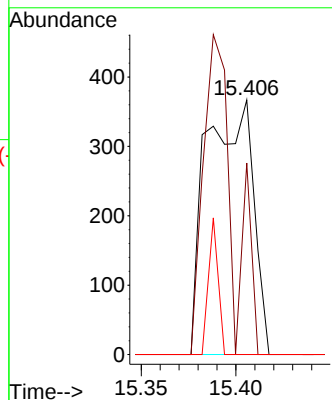


#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.275 ug/l  
 RT: 15.406 min Scan# 21  
 Delta R.T. 0.018 min  
 Lab File: VN084675.D  
 Acq: 05 Nov 2024 09:54

Instrument :  
 MSVOA\_N  
 ClientSampleId :

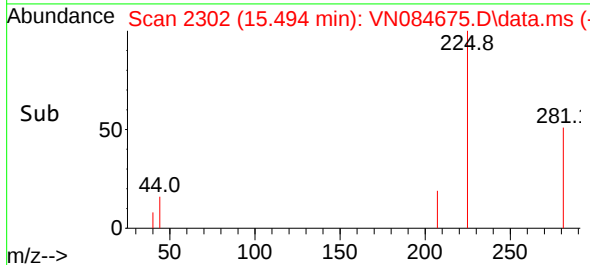
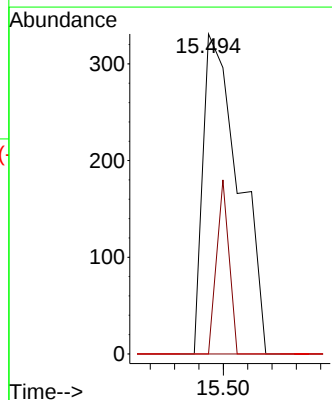
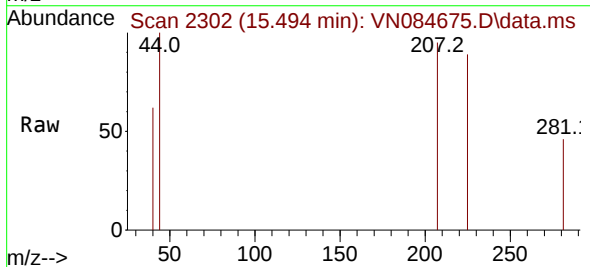


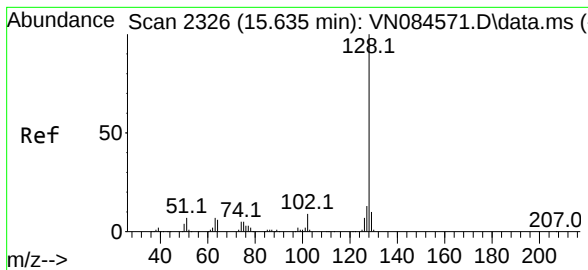
Tgt Ion:180 Resp: 625  
 Ion Ratio Lower Upper  
 180 100  
 182 79.4 47.0 141.0  
 145 11.2 16.4 49.4#



#94  
 Hexachlorobutadiene  
 Concen: 0.339 ug/l  
 RT: 15.494 min Scan# 2302  
 Delta R.T. -0.006 min  
 Lab File: VN084675.D  
 Acq: 05 Nov 2024 09:54

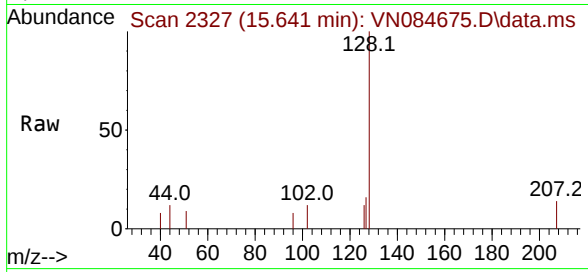
Tgt Ion:225 Resp: 339  
 Ion Ratio Lower Upper  
 225 100  
 223 18.9 32.4 97.2#  
 227 0.0 32.4 97.0#





#95  
Naphthalene  
Concen: 0.561 ug/l  
RT: 15.641 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN084675.D  
Acq: 05 Nov 2024 09:54

Instrument :  
MSVOA\_N  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 3823  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 11.7  | 10.5  | 15.7  |
| 129      | 5.4   | 8.7   | 13.1# |

