

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121421\  
 Data File : VN070070.D  
 Acq On : 14 Dec 2021 14:44  
 Operator : JC/MD  
 Sample : M5051-02ME  
 Misc : 5.01g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 14 17:12:57 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

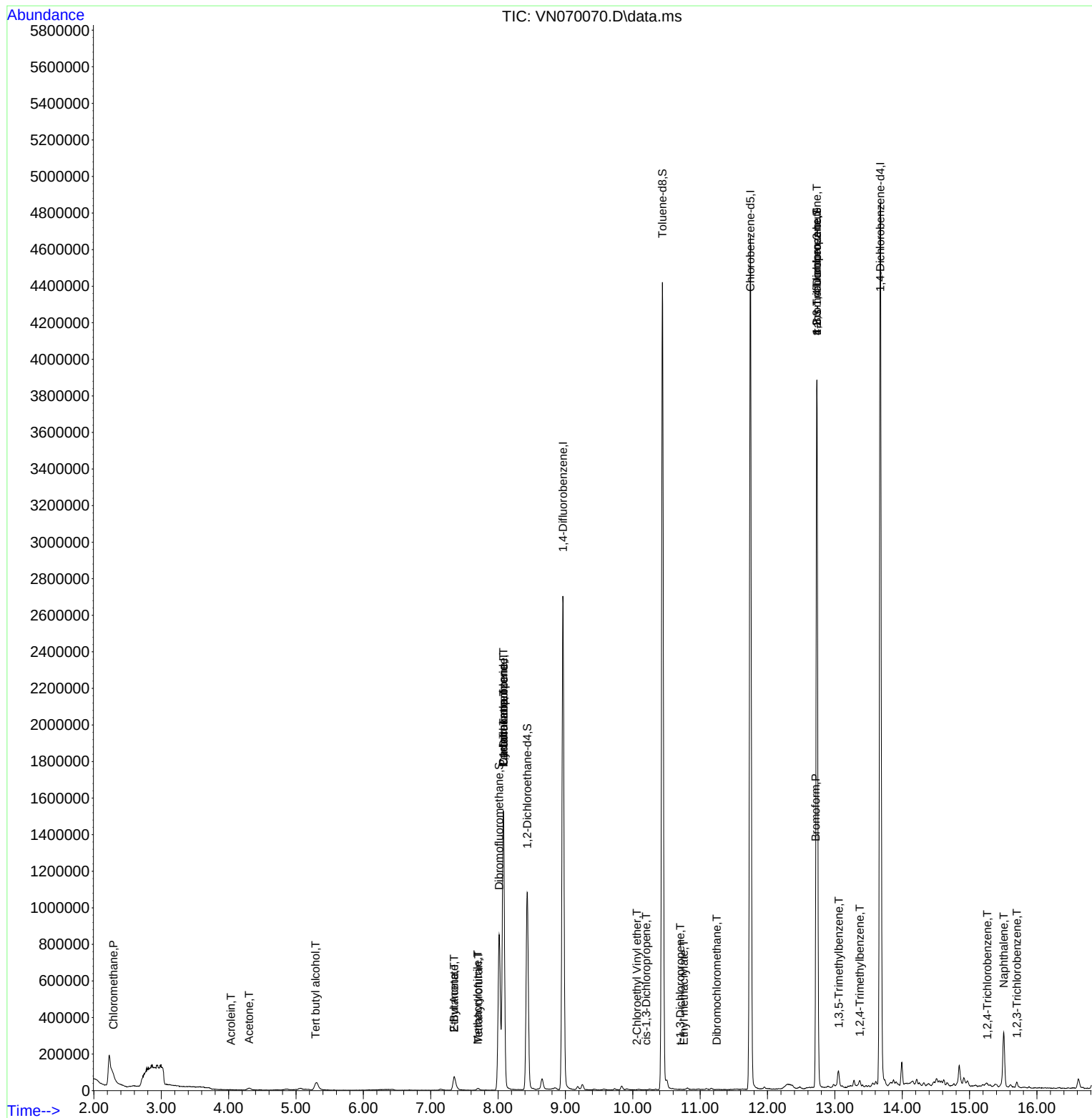
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.080          | 168  | 1148806             | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.963          | 114  | 2227448             | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.747         | 117  | 2560395             | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.675         | 152  | 1244113             | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.434          | 65   | 942617              | 53.142 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 106.280% |        |        |          |
| 35) Dibromofluoromethane      | 8.016          | 113  | 620168              | 44.449 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 88.900%  |        |        |          |
| 50) Toluene-d8                | 10.440         | 98   | 3014952             | 53.816 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 107.640% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.733         | 95   | 1332826             | 65.670 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 131.340% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 3) Chloromethane              | 2.290          | 50   | 5079                | 0.303  | ug/l   | 96       |
| 11) Tert butyl alcohol        | 5.291          | 59   | 18257               | 5.445  | ug/l # | 76       |
| 13) Acrolein                  | 4.033          | 56   | 596                 | 0.209  | ug/l # | 81       |
| 16) Acetone                   | 4.304          | 43   | 14629               | 1.371  | ug/l   | 96       |
| 25) 2-Butanone                | 7.348          | 43   | 145821              | 10.058 | ug/l # | 89       |
| 29) Tetrahydrofuran           | 7.707          | 42   | 9026                | 1.025  | ug/l # | 47       |
| 31) Cyclohexane               | 8.078          | 56   | 29690               | 1.203  | ug/l # | 22       |
| 36) 1,1-Dichloropropene       | 8.080          | 75   | 98189               | 4.631  | ug/l # | 48       |
| 37) Ethyl Acetate             | 7.348          | 43   | 145821              | 4.620  | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 8.078          | 117  | 120000              | 5.771  | ug/l # | 17       |
| 41) Methacrylonitrile         | 7.697          | 41   | 3820                | 0.258  | ug/l # | 35       |
| 53) t-1,3-Dichloropropene     | 10.706         | 75   | 153                 | 2.800  | ug/l # | 23       |
| 54) cis-1,3-Dichloropropene   | 10.199         | 75   | 61                  | 2.001  | ug/l # | 51       |
| 56) Ethyl methacrylate        | 10.757         | 69   | 270                 | 2.288  | ug/l # | 71       |
| 58) 2-Chloroethyl Vinyl ether | 10.062         | 63   | 93                  | 18.399 | ug/l # | 45       |
| 60) Dibromochloromethane      | 11.245         | 129  | 29                  | 2.378  | ug/l # | 11       |
| 71) Bromoform                 | 12.715         | 173  | 644                 | 2.770  | ug/l # | 29       |
| 76) 1,2,3-Trichloropropane    | 12.733         | 75   | 737609              | 20.674 | ug/l # | 1        |
| 80) 1,3,5-Trimethylbenzene    | 13.058         | 105  | 19600               | 0.220  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 12.733         | 75   | 737609              | 66.228 | ug/l # | 5        |
| 84) 1,2,4-Trimethylbenzene    | 13.369         | 105  | 17813               | 0.210  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.265         | 180  | 2369                | 2.987  | ug/l   | 96       |
| 95) Naphthalene               | 15.507         | 128  | 283830              | 8.281  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.702         | 180  | 2613                | 2.561  | ug/l   | 87       |
| -----                         |                |      |                     |        |        |          |

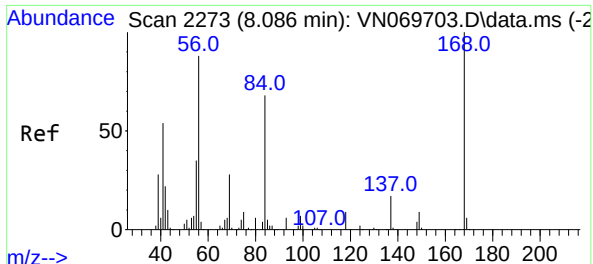
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 10 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :

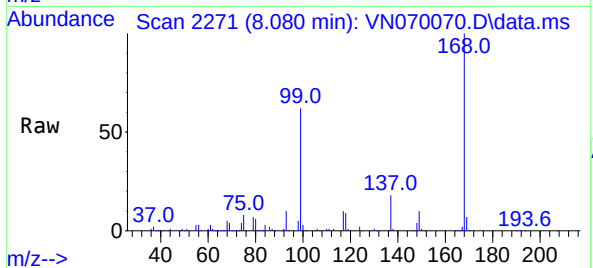
Quant Time: Dec 14 17:12:57 2021  
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QLast Update : Fri Dec 03 08:46:47 2021  
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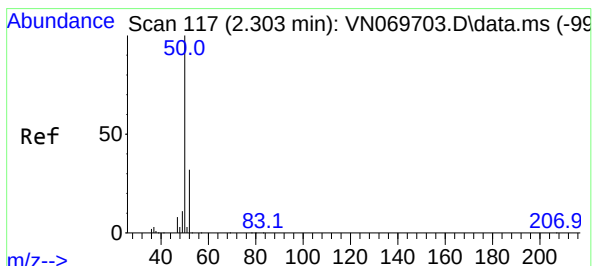
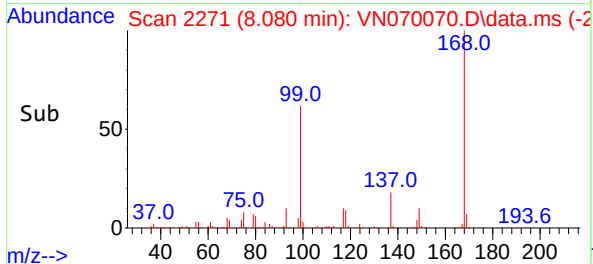
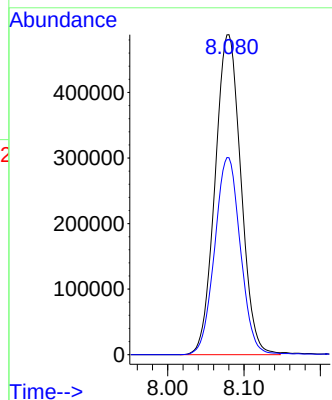


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.080 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Instrument :  
MSVOA\_N  
ClientSampleId :

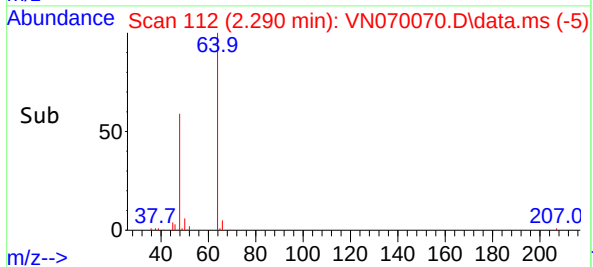
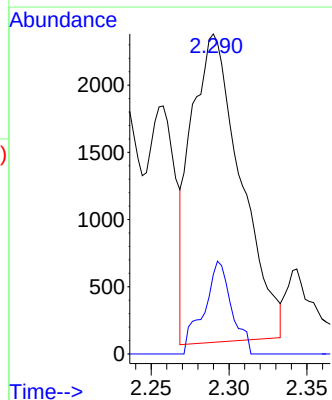
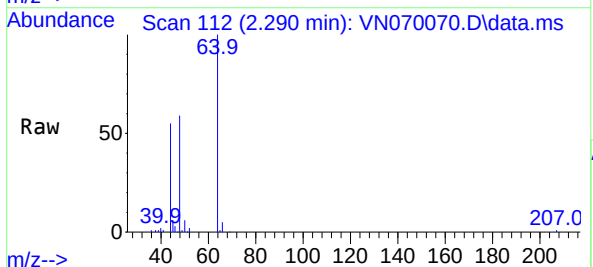


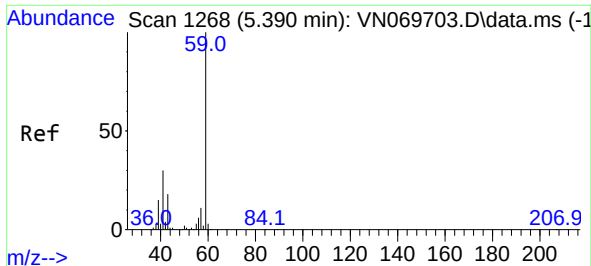
Tgt Ion:168 Resp: 1148806  
Ion Ratio Lower Upper  
168 100  
99 61.6 41.3 61.9



#3  
Chloromethane  
Concen: 0.303 ug/l  
RT: 2.290 min Scan# 112  
Delta R.T. -0.013 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

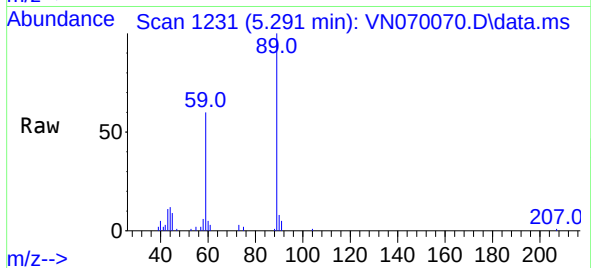
Tgt Ion: 50 Resp: 5079  
Ion Ratio Lower Upper  
50 100  
52 29.5 25.4 38.0



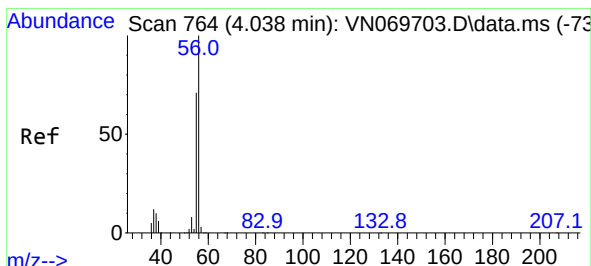
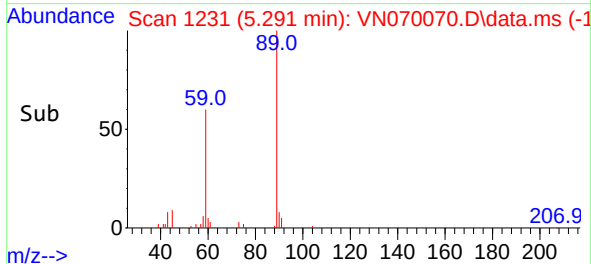
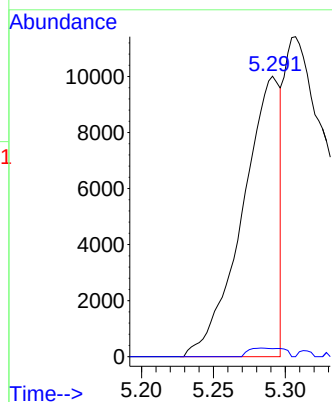


#11  
Tert butyl alcohol  
Concen: 5.445 ug/l  
RT: 5.291 min Scan# 11  
Delta R.T. -0.099 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Instrument :  
MSVOA\_N  
ClientSampleId :

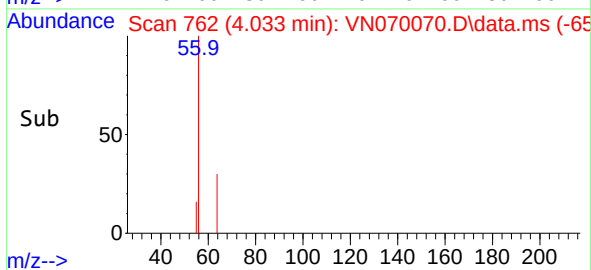
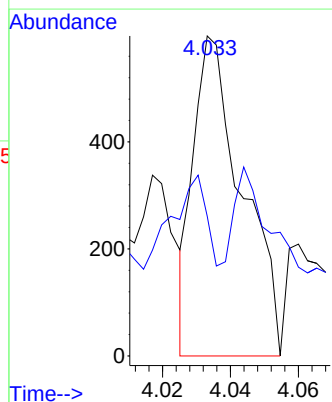
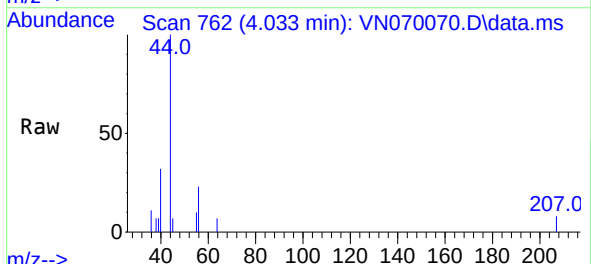


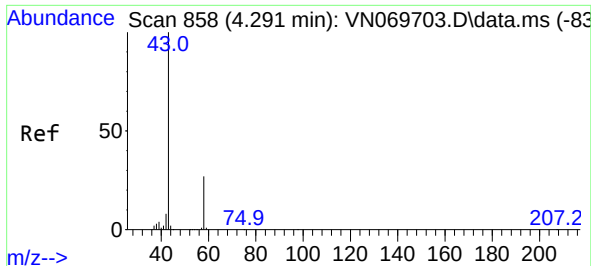
Tgt Ion: 59 Resp: 18257  
Ion Ratio Lower Upper  
59 100  
57 1.9 8.7 13.1#



#13  
Acrolein  
Concen: 0.209 ug/l  
RT: 4.033 min Scan# 762  
Delta R.T. -0.005 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Tgt Ion: 56 Resp: 596  
Ion Ratio Lower Upper  
56 100  
55 55.0 56.6 85.0#

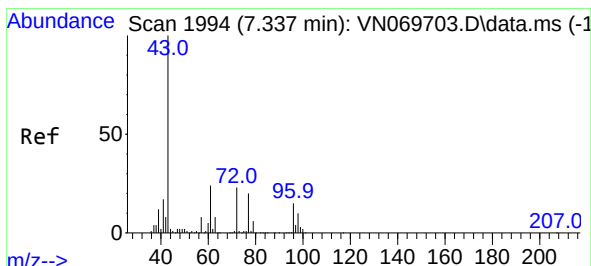
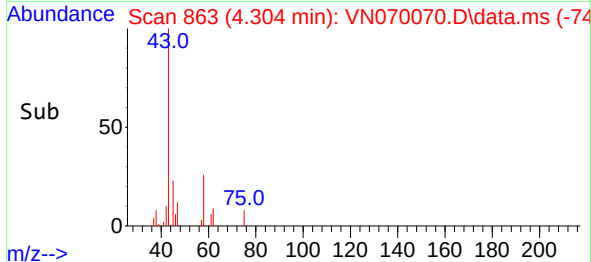
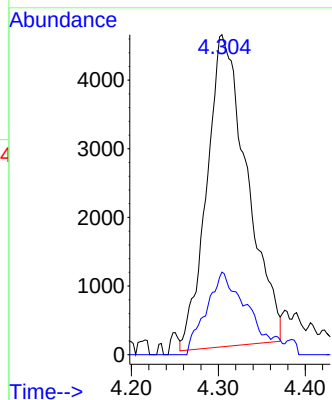
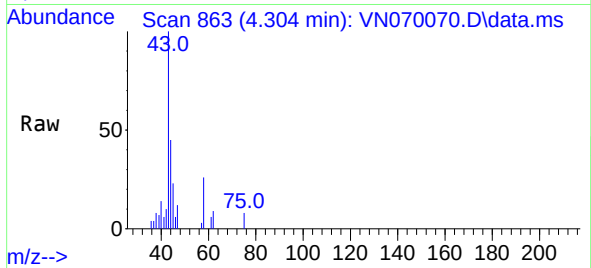




#16  
Acetone  
Concen: 1.371 ug/l  
RT: 4.304 min Scan# 80  
Delta R.T. 0.014 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

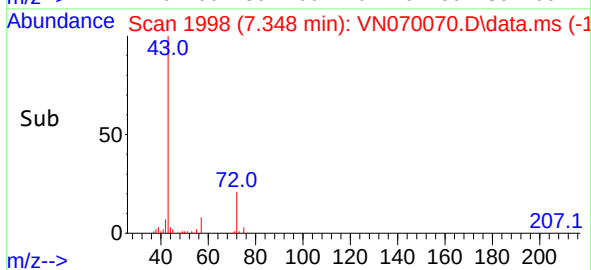
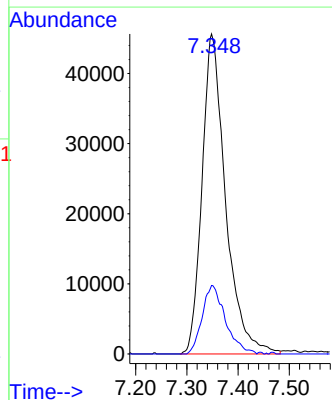
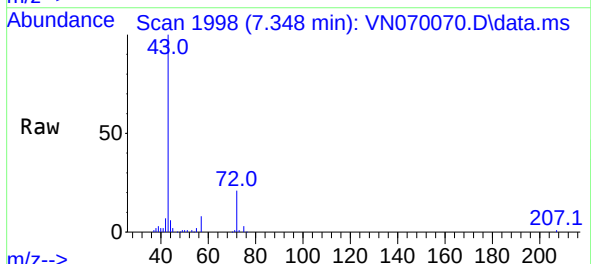
Instrument :  
MSVOA\_N  
ClientSampleId :

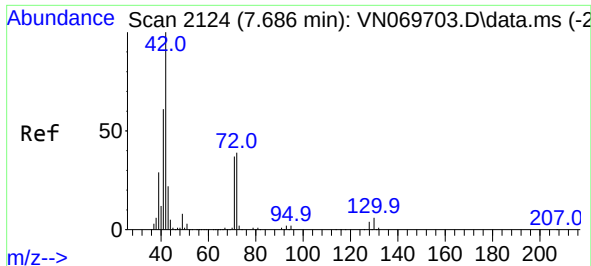
Tgt Ion: 43 Resp: 14629  
Ion Ratio Lower Upper  
43 100  
58 27.0 23.1 34.7



#25  
2-Butanone  
Concen: 10.058 ug/l  
RT: 7.348 min Scan# 1998  
Delta R.T. 0.011 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Tgt Ion: 43 Resp: 145821  
Ion Ratio Lower Upper  
43 100  
72 21.4 21.7 32.5#





#29

Tetrahydrofuran

Concen: 1.025 ug/l

RT: 7.707 min Scan# 21

Delta R.T. 0.022 min

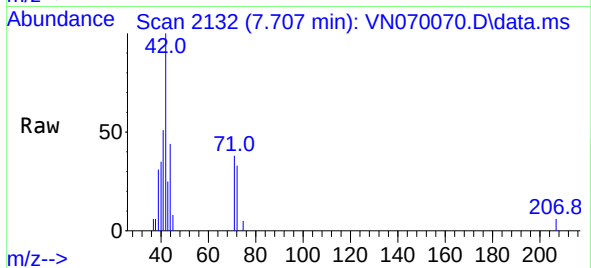
Lab File: VN070070.D

Acq: 14 Dec 2021 14:44

Instrument :

MSVOA\_N

ClientSampleId :



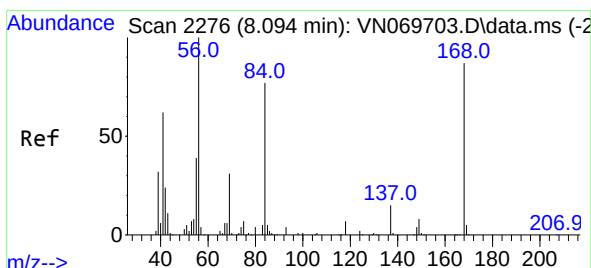
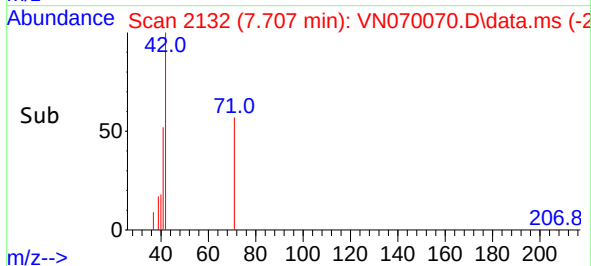
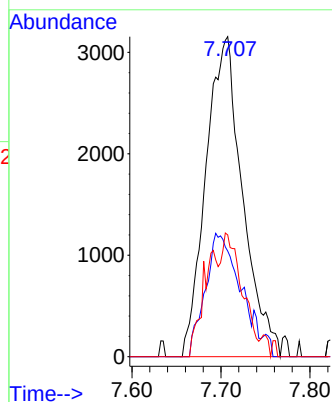
Tgt Ion: 42 Resp: 9026

Ion Ratio Lower Upper

42 100

72 0.0 36.3 54.5#

71 20.6 34.7 52.1#



#31

Cyclohexane

Concen: 1.203 ug/l

RT: 8.078 min Scan# 2270

Delta R.T. -0.016 min

Lab File: VN070070.D

Acq: 14 Dec 2021 14:44

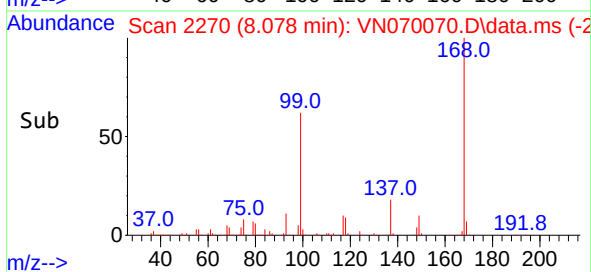
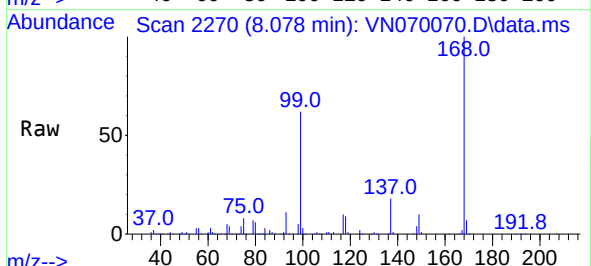
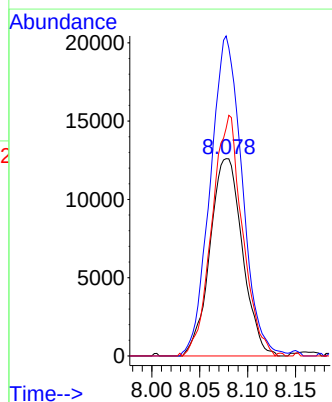
Tgt Ion: 56 Resp: 29690

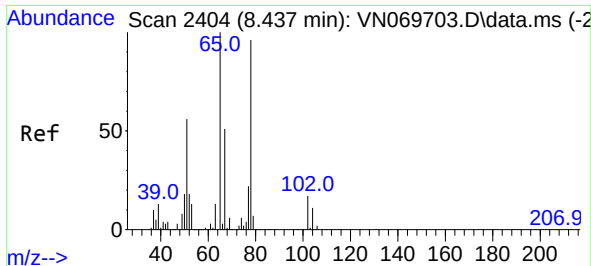
Ion Ratio Lower Upper

56 100

69 162.2 27.1 40.7#

84 114.0 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 53.142 ug/l

RT: 8.434 min Scan# 24

Delta R.T. -0.003 min

Lab File: VN070070.D

Acq: 14 Dec 2021 14:44

Instrument :

MSVOA\_N

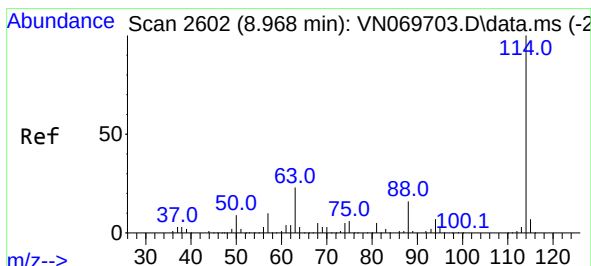
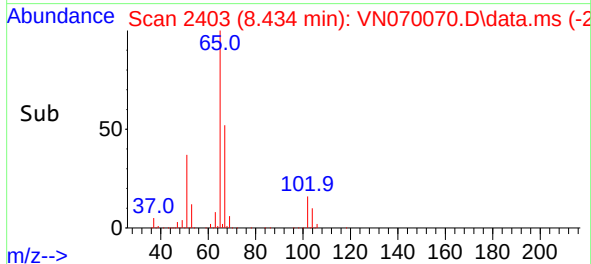
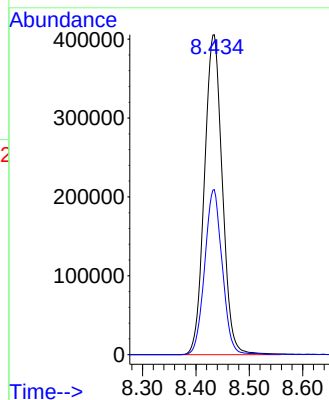
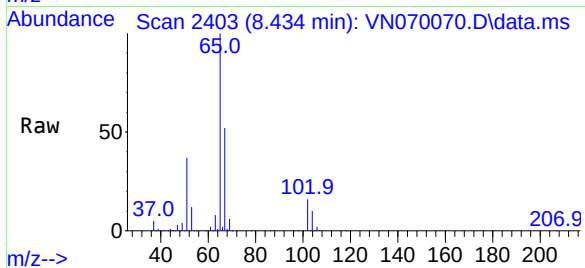
ClientSampleId :

Tgt Ion: 65 Resp: 942617

Ion Ratio Lower Upper

65 100

67 50.3 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 2600

Delta R.T. -0.005 min

Lab File: VN070070.D

Acq: 14 Dec 2021 14:44

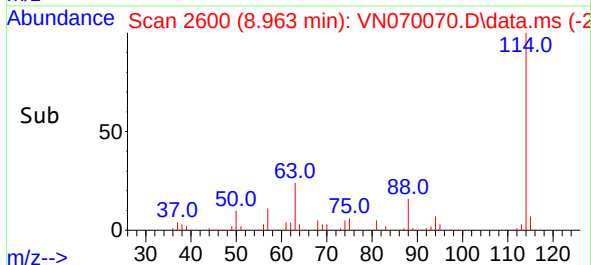
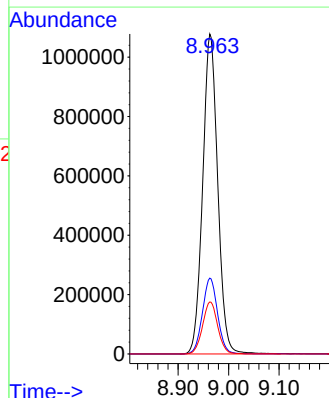
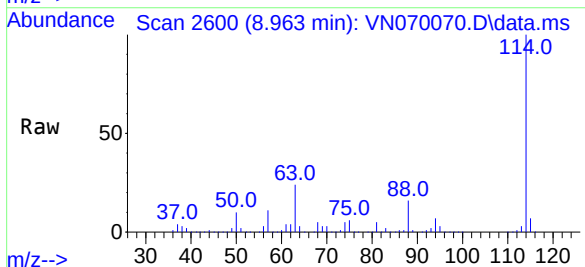
Tgt Ion: 114 Resp: 2227448

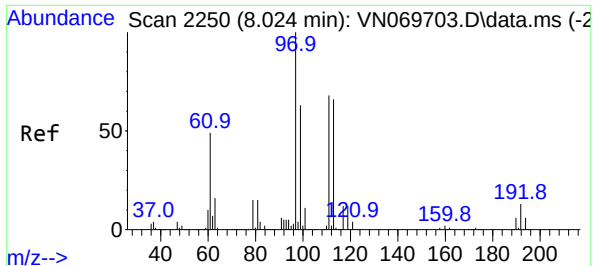
Ion Ratio Lower Upper

114 100

63 23.7 0.0 37.8

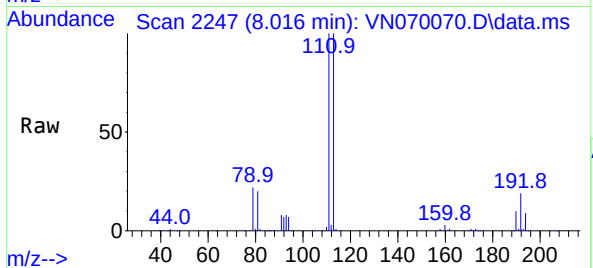
88 16.3 0.0 27.4



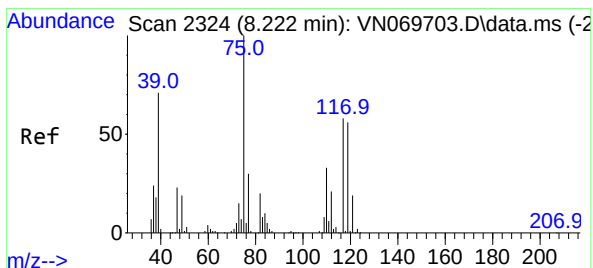
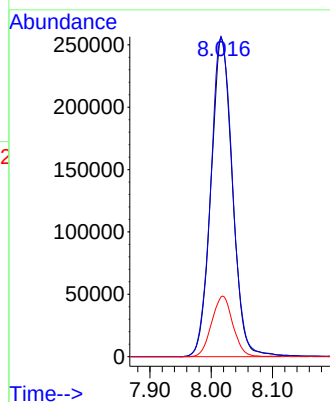
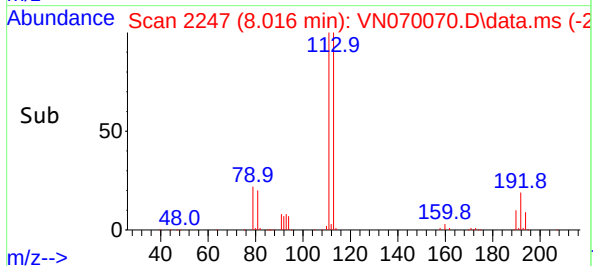


#35  
Dibromofluoromethane  
Concen: 44.449 ug/l  
RT: 8.016 min Scan# 21  
Delta R.T. -0.008 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

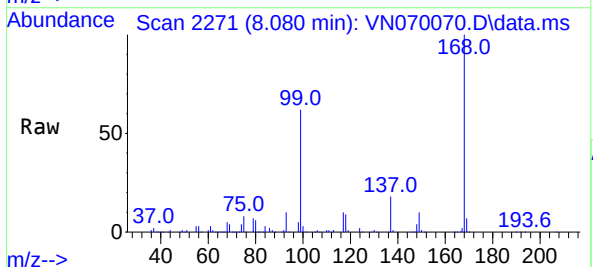
Instrument :  
MSVOA\_N  
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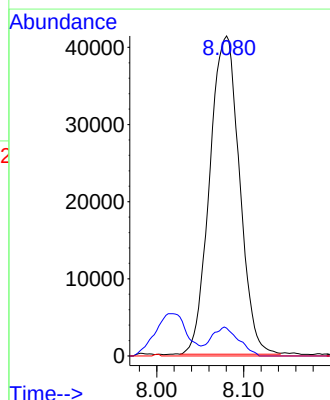
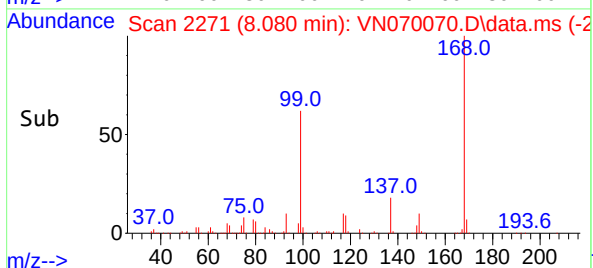
Tgt Ion:113 Resp: 620168  
Ion Ratio Lower Upper  
113 100  
111 102.7 82.2 123.2  
192 18.8 16.9 25.3



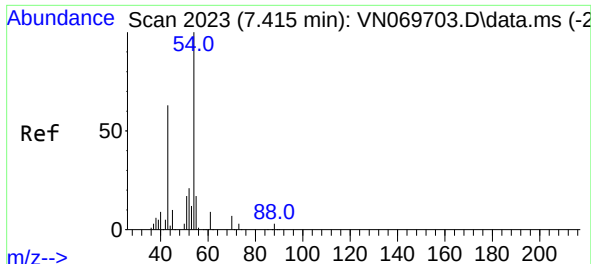
#36  
1,1-Dichloropropene  
Concen: 4.631 ug/l  
RT: 8.080 min Scan# 2271  
Delta R.T. -0.142 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44



Tgt Ion: 75 Resp: 98189  
Ion Ratio Lower Upper  
75 100  
110 8.3 18.4 55.2#  
77 0.0 24.4 36.6#







#37

Ethyl Acetate

Concen: 4.620 ug/l

RT: 7.348 min Scan# 14

Delta R.T. -0.067 min

Lab File: VN070070.D

Acq: 14 Dec 2021 14:44

Instrument :

MSVOA\_N

ClientSampleId :

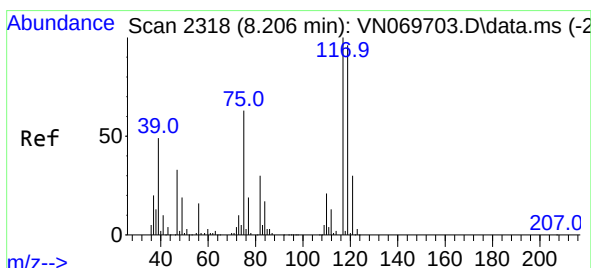
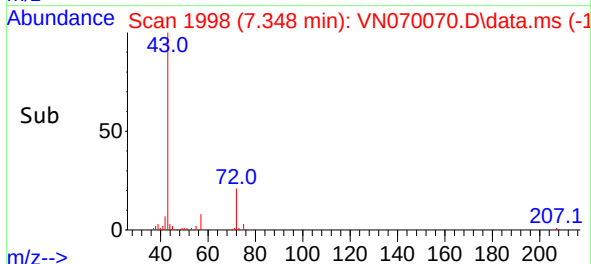
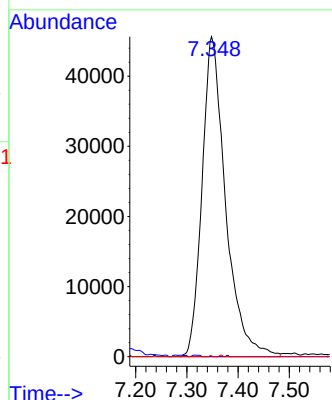
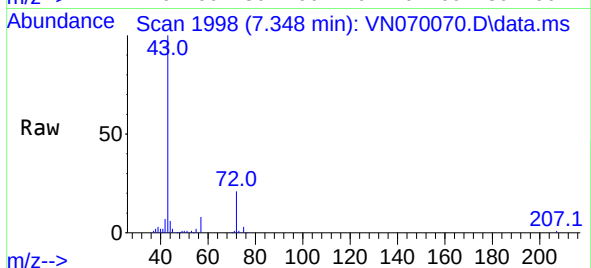
Tgt Ion: 43 Resp: 145821

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

70 0.0 7.9 11.9#



#38

Carbon Tetrachloride

Concen: 5.771 ug/l

RT: 8.078 min Scan# 2270

Delta R.T. -0.129 min

Lab File: VN070070.D

Acq: 14 Dec 2021 14:44

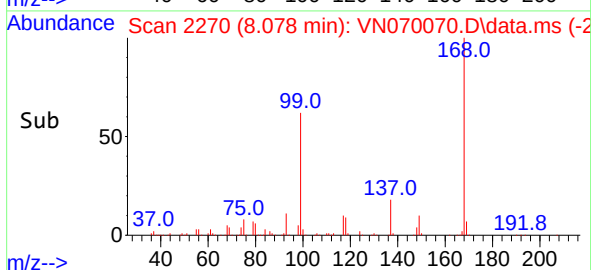
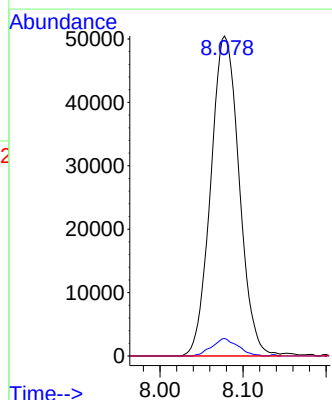
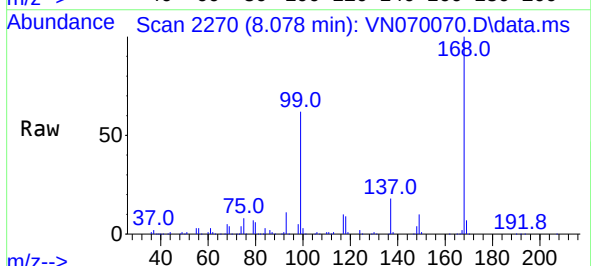
Tgt Ion: 117 Resp: 120000

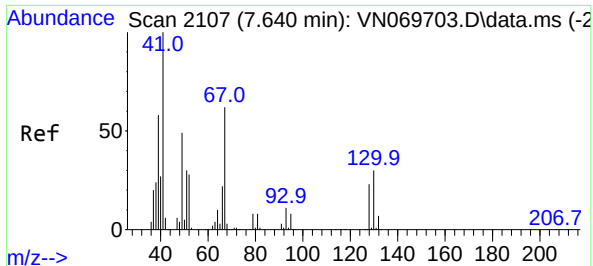
Ion Ratio Lower Upper

117 100

119 5.5 76.1 114.1#

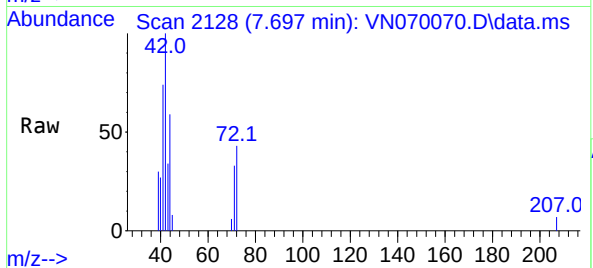
121 0.0 24.2 36.2#



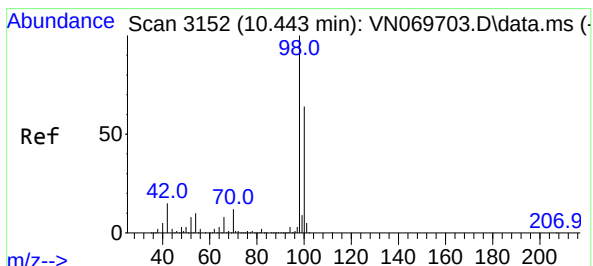
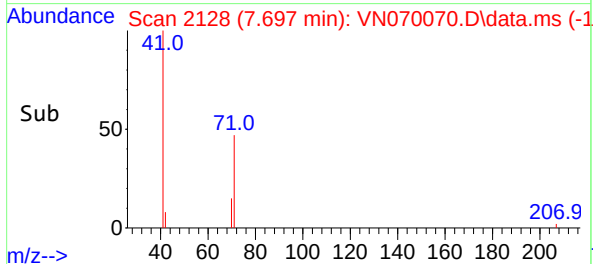
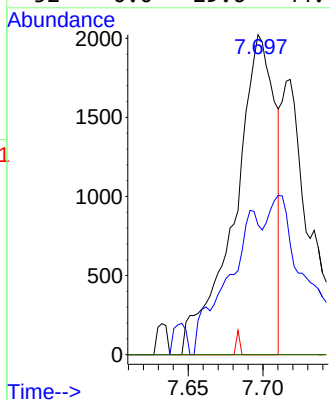


#41  
Methacrylonitrile  
Concen: 0.258 ug/l  
RT: 7.697 min Scan# 2107  
Delta R.T. 0.057 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Instrument :  
MSVOA\_N  
ClientSampleId :

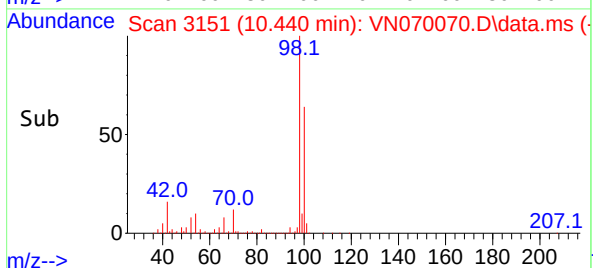
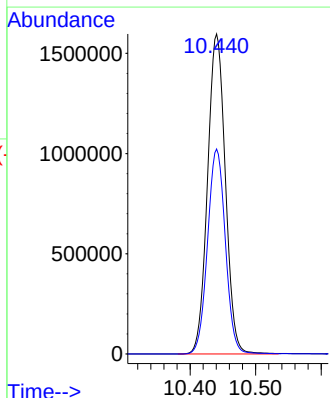
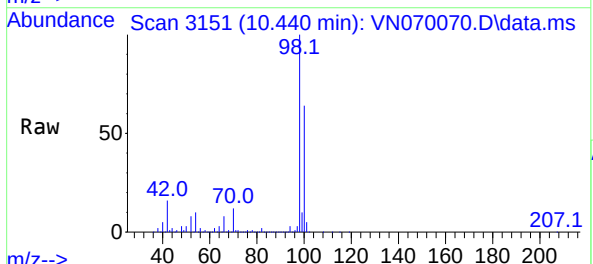


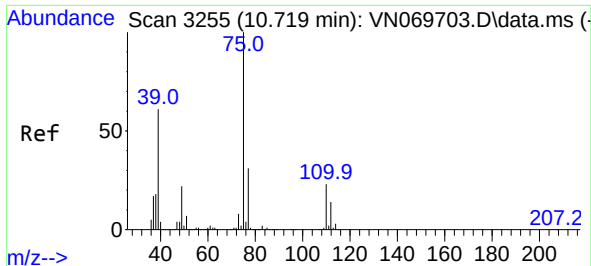
Tgt Ion: 41 Resp: 3820  
Ion Ratio Lower Upper  
41 100  
39 38.5 48.1 72.1#  
67 0.6 68.3 102.5#  
52 0.0 29.6 44.4#



#50  
Toluene-d8  
Concen: 53.816 ug/l  
RT: 10.440 min Scan# 3151  
Delta R.T. -0.003 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Tgt Ion: 98 Resp: 3014952  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.4 75.6

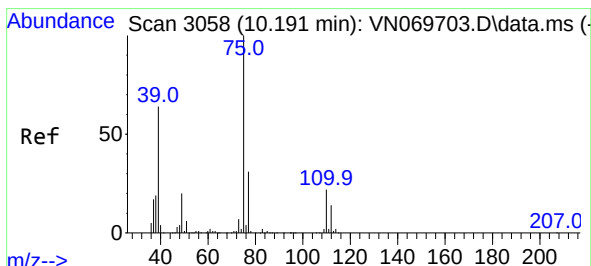
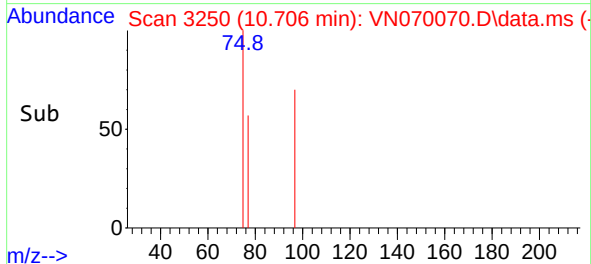
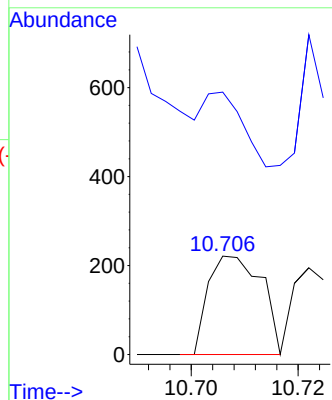
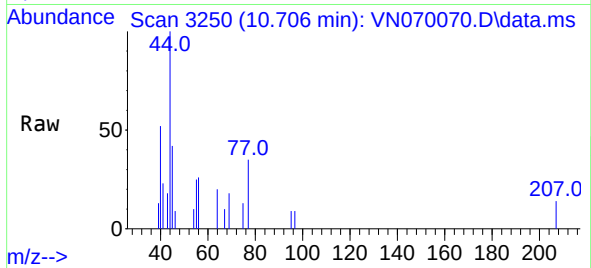




#53  
t-1,3-Dichloropropene  
Concen: 2.800 ug/l  
RT: 10.706 min Scan# 31  
Delta R.T. -0.013 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

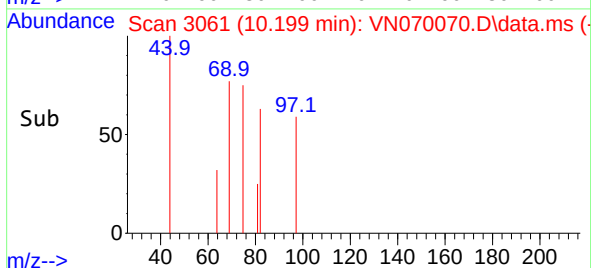
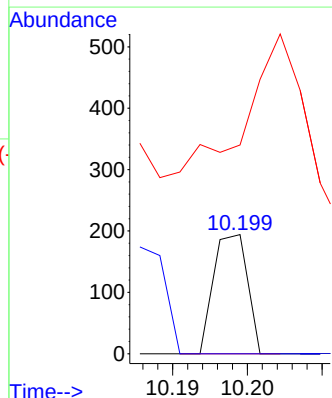
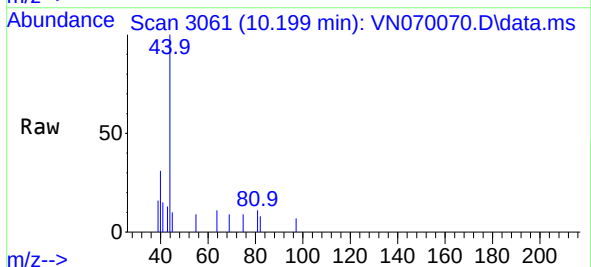
Instrument :  
MSVOA\_N  
ClientSampleId :

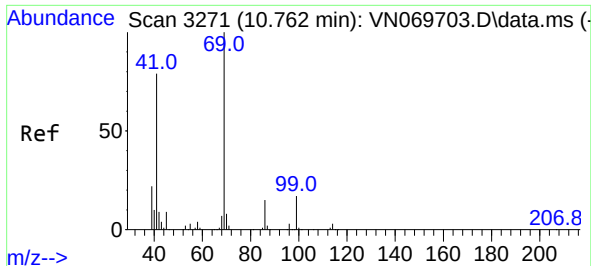
Tgt Ion: 75 Resp: 153  
Ion Ratio Lower Upper  
75 100  
77 74.7 25.6 38.4#



#54  
cis-1,3-Dichloropropene  
Concen: 2.001 ug/l  
RT: 10.199 min Scan# 3061  
Delta R.T. 0.008 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

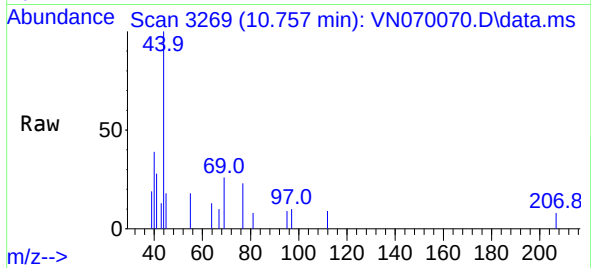
Tgt Ion: 75 Resp: 61  
Ion Ratio Lower Upper  
75 100  
77 0.0 26.4 39.6#  
39 22.7 42.5 63.7#



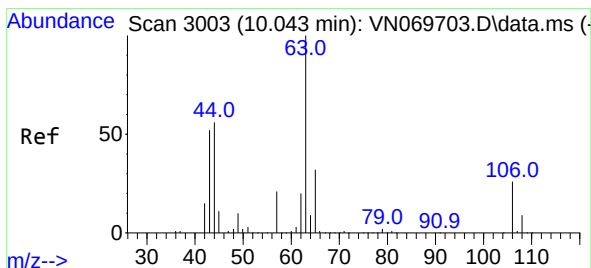
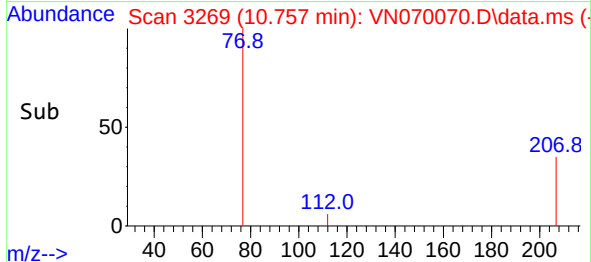
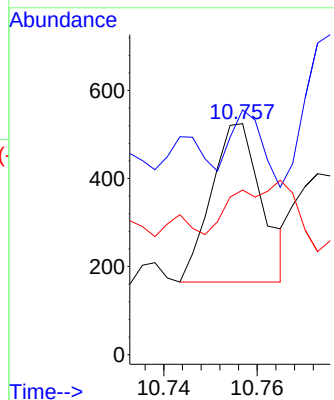


#56  
Ethyl methacrylate  
Concen: 2.288 ug/l  
RT: 10.757 min Scan# 310  
Delta R.T. -0.005 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Instrument :  
MSVOA\_N  
ClientSampleId :

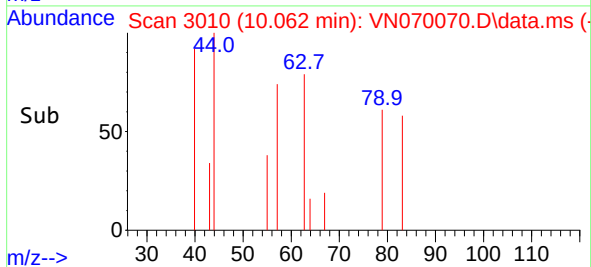
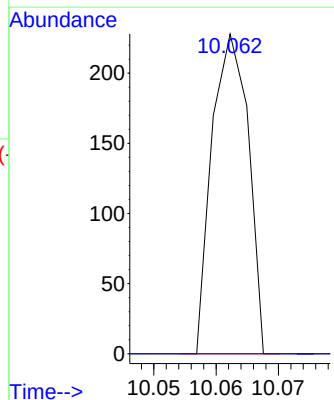
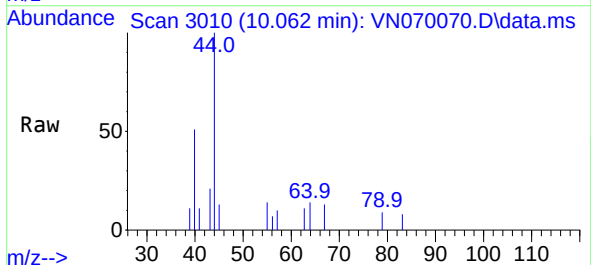


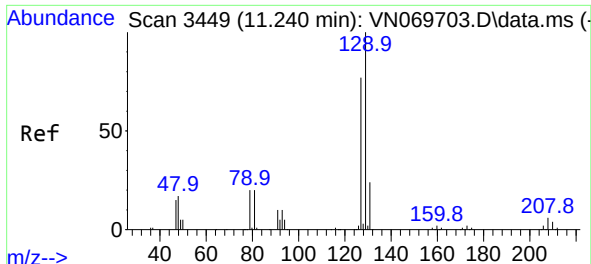
Tgt Ion: 69 Resp: 270  
Ion Ratio Lower Upper  
69 100  
41 92.2 51.4 77.0#  
39 55.9 34.6 52.0#



#58  
2-Chloroethyl Vinyl ether  
Concen: 18.399 ug/l  
RT: 10.062 min Scan# 3010  
Delta R.T. 0.019 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Tgt Ion: 63 Resp: 93  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.9 35.9#

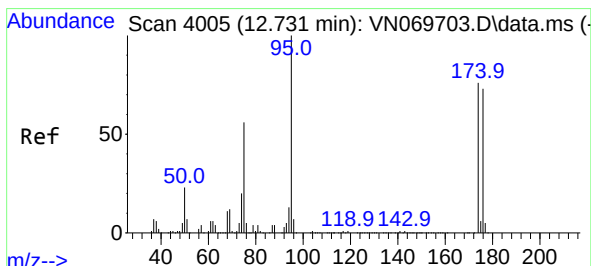
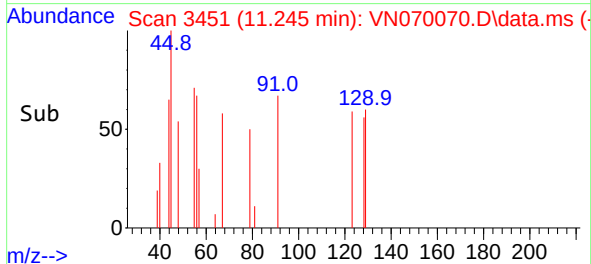
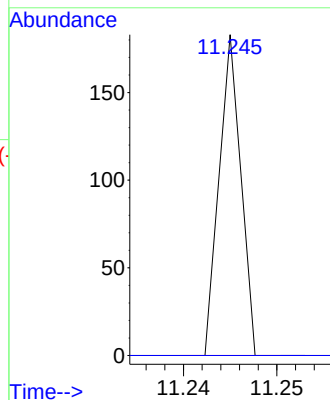
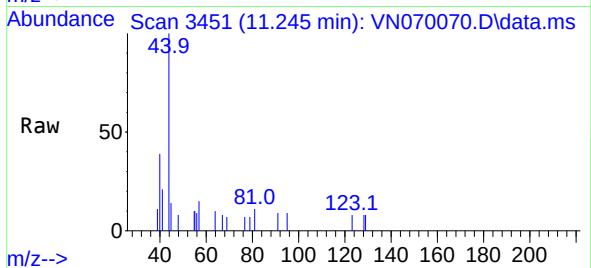




#60  
Dibromochloromethane  
Concen: 2.378 ug/l  
RT: 11.245 min Scan# 3449  
Delta R.T. 0.005 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

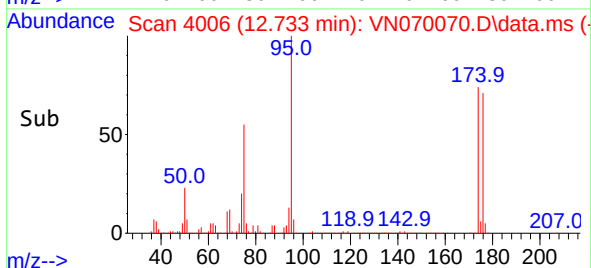
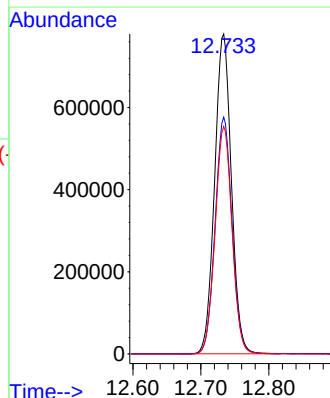
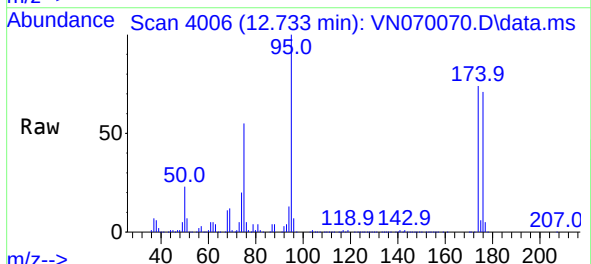
Instrument :  
MSVOA\_N  
ClientSampleId :

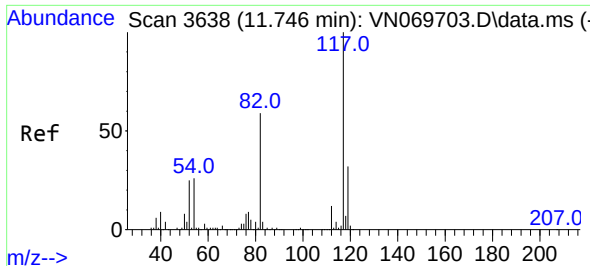
Tgt Ion:129 Resp: 29  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#



#62  
4-Bromofluorobenzene  
Concen: 65.670 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.002 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

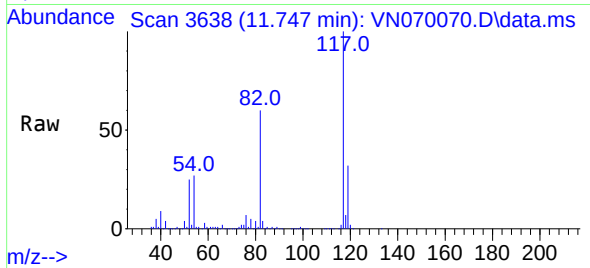
Tgt Ion: 95 Resp: 1332826  
Ion Ratio Lower Upper  
95 100  
174 75.0 0.0 187.2  
176 71.8 0.0 181.4





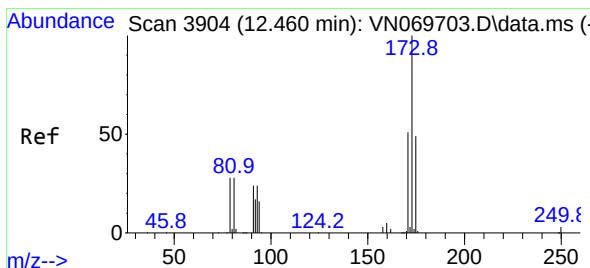
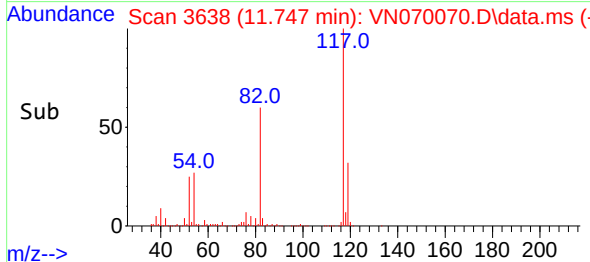
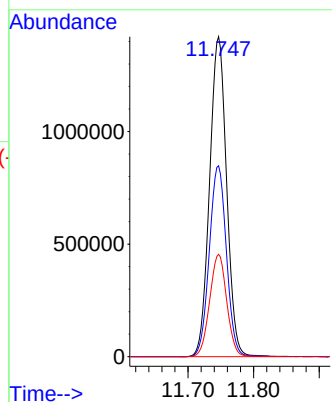
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3099  
Delta R.T. 0.001 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:117 Resp: 2560395

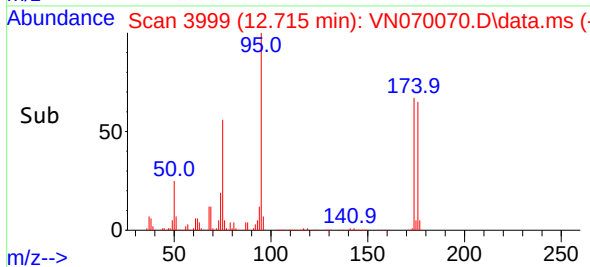
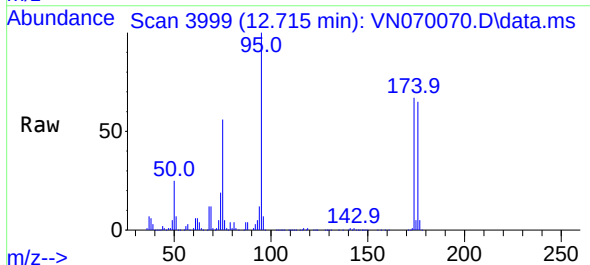
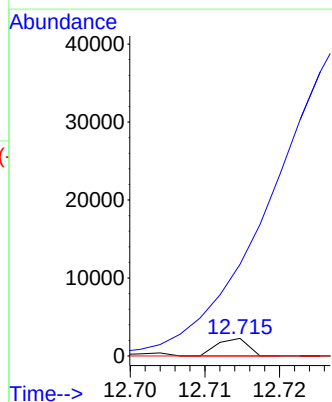
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 59.7  | 42.4  | 63.6  |
| 119 | 32.0  | 25.4  | 38.2  |

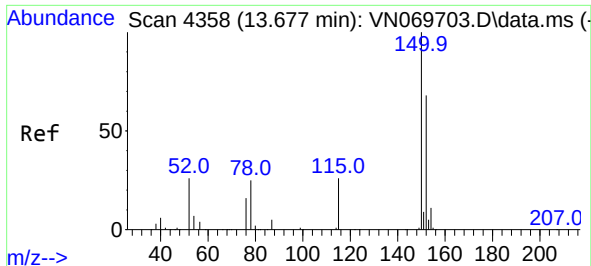


#71  
Bromoform  
Concen: 2.770 ug/l  
RT: 12.715 min Scan# 3999  
Delta R.T. 0.255 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Tgt Ion:173 Resp: 644

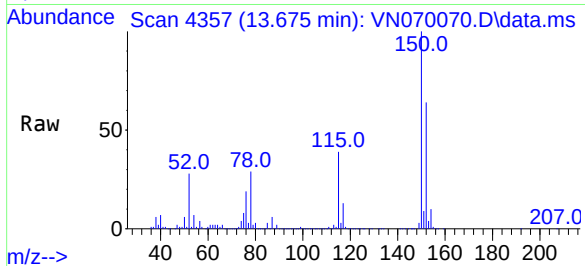
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 0.0   | 24.2  | 72.6# |
| 254 | 0.0   | 0.0   | 0.0   |



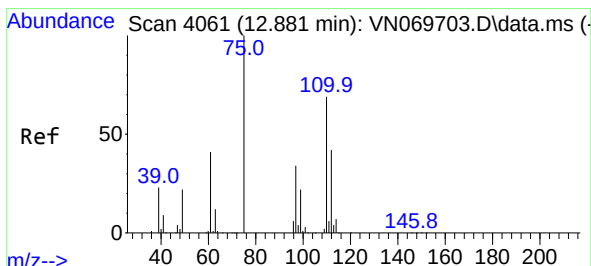
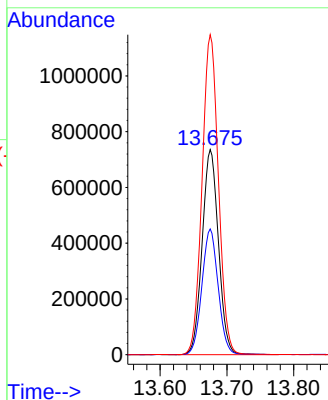
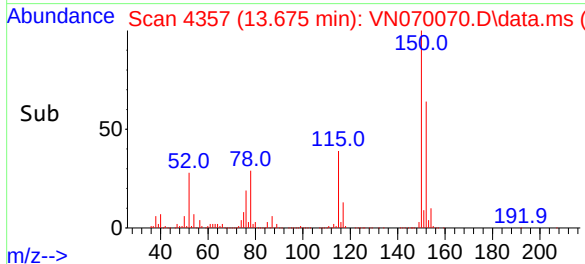


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Instrument :  
MSVOA\_N  
ClientSampleId :

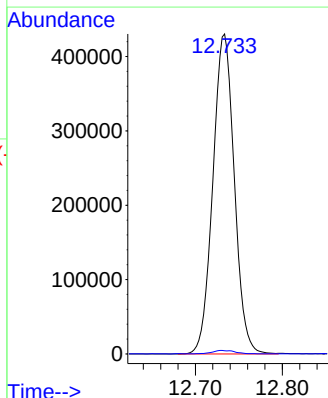
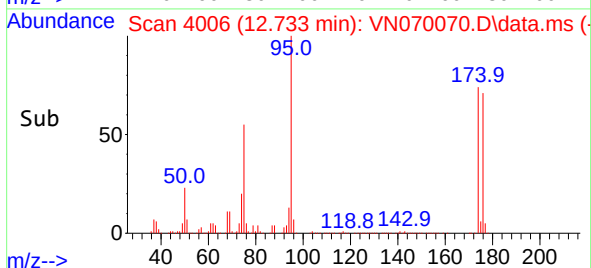
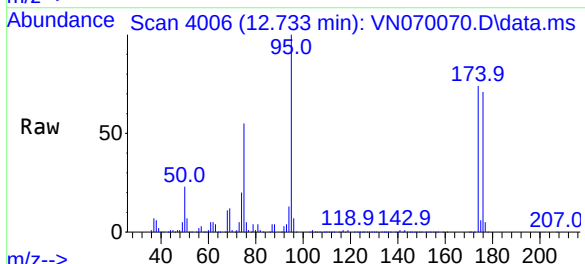


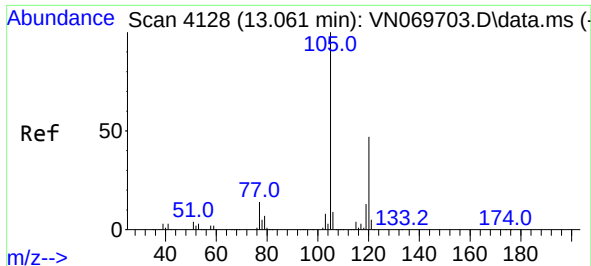
Tgt Ion:152 Resp: 1244113  
Ion Ratio Lower Upper  
152 100  
115 61.4 27.5 82.5  
150 156.8 0.0 344.4



#76  
1,2,3-Trichloropropane  
Concen: 20.674 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.147 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Tgt Ion: 75 Resp: 737609  
Ion Ratio Lower Upper  
75 100  
77 1.2 82.6 247.8#

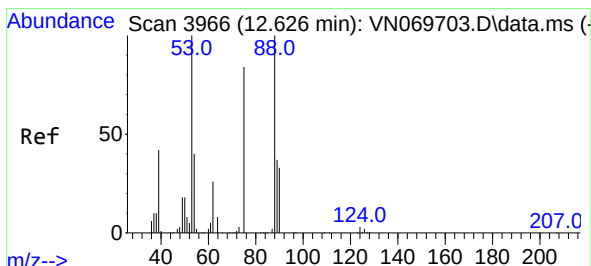
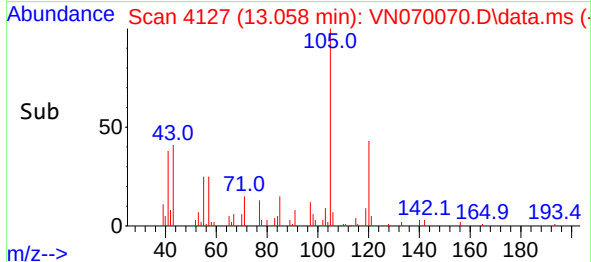
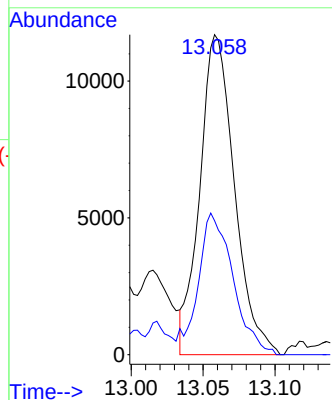
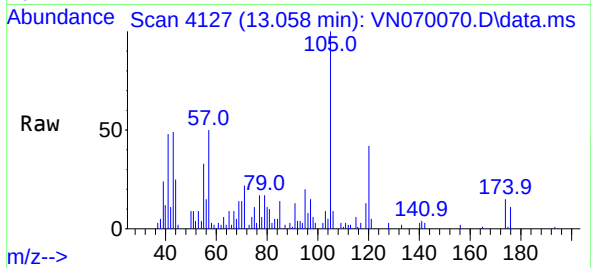




#80  
1,3,5-Trimethylbenzene  
Concen: 0.220 ug/l  
RT: 13.058 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

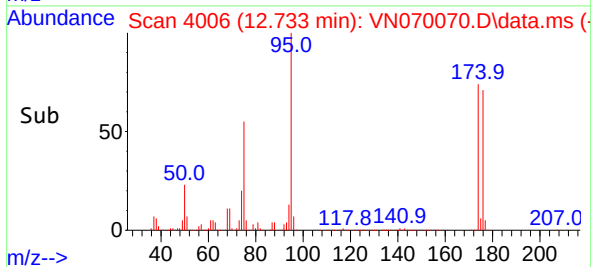
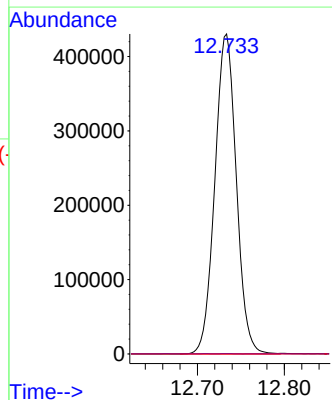
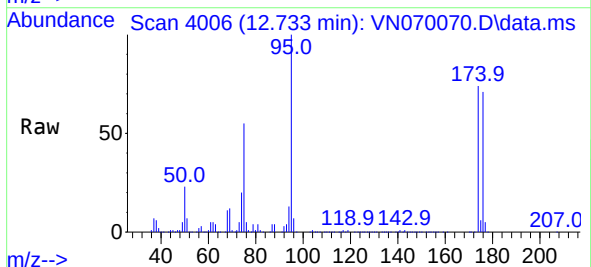
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:105 Resp: 19600  
Ion Ratio Lower Upper  
105 100  
120 44.5 24.6 73.6

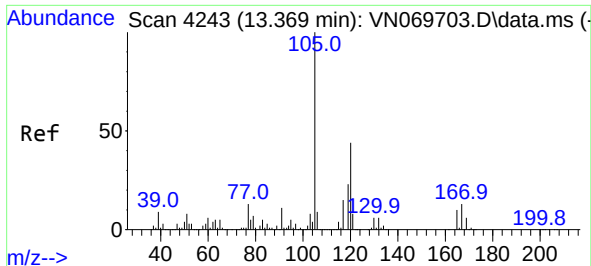


#81  
trans-1,4-Dichloro-2-butene  
Concen: 66.228 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.107 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Tgt Ion: 75 Resp: 737609  
Ion Ratio Lower Upper  
75 100  
53 0.1 90.5 135.7#  
89 0.0 38.2 57.4#



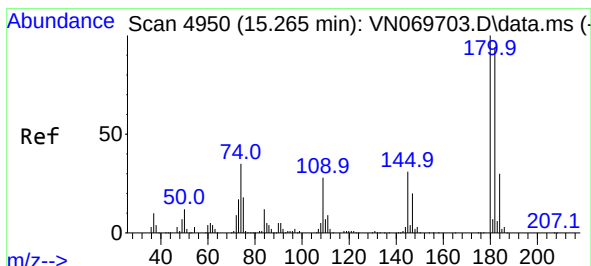
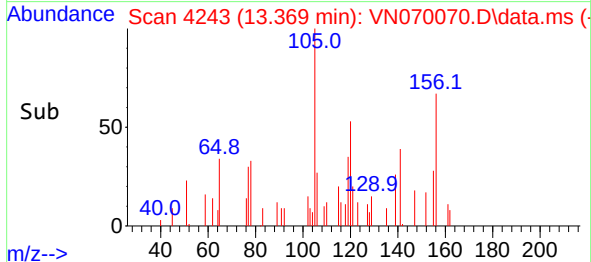
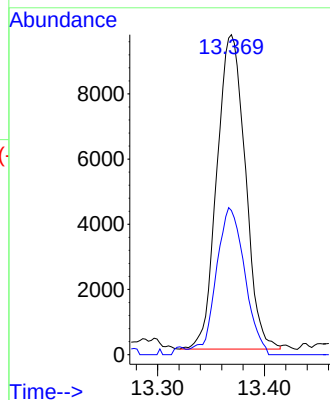
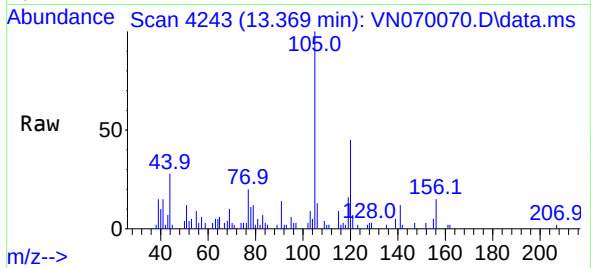




#84  
1,2,4-Trimethylbenzene  
Concen: 0.210 ug/l  
RT: 13.369 min Scan# 4243  
Delta R.T. 0.000 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

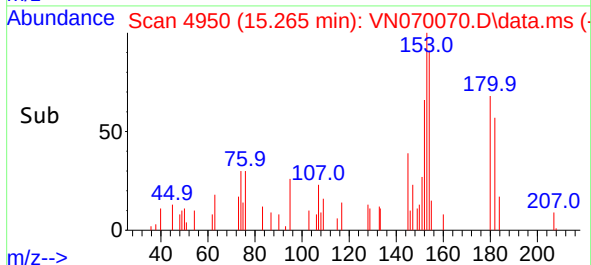
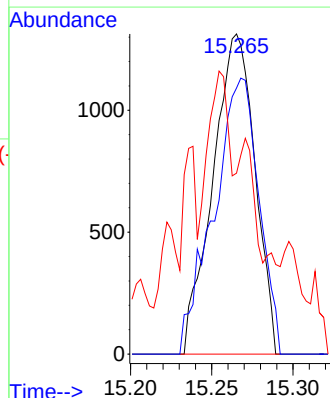
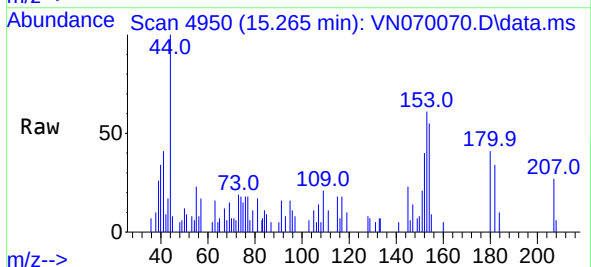
Instrument :  
MSVOA\_N  
ClientSampleId :

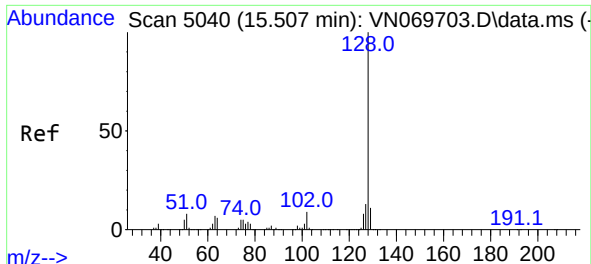
Tgt Ion:105 Resp: 17813  
Ion Ratio Lower Upper  
105 100  
120 46.9 22.8 68.4



#93  
1,2,4-Trichlorobenzene  
Concen: 2.987 ug/l  
RT: 15.265 min Scan# 4950  
Delta R.T. 0.000 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

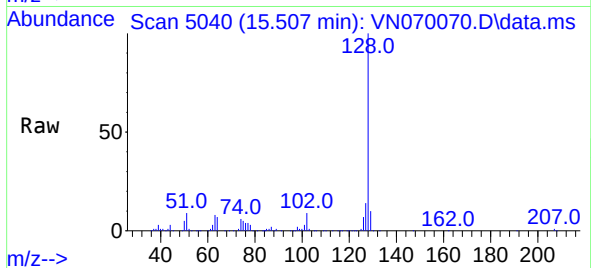
Tgt Ion:180 Resp: 2369  
Ion Ratio Lower Upper  
180 100  
182 92.2 48.3 144.9  
145 26.7 14.5 43.5



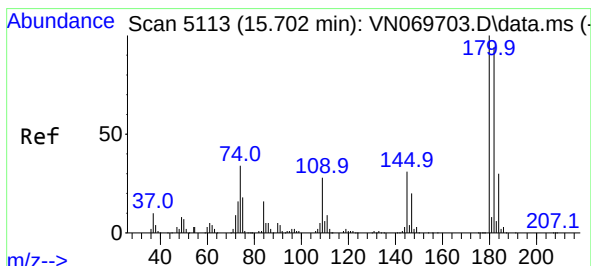
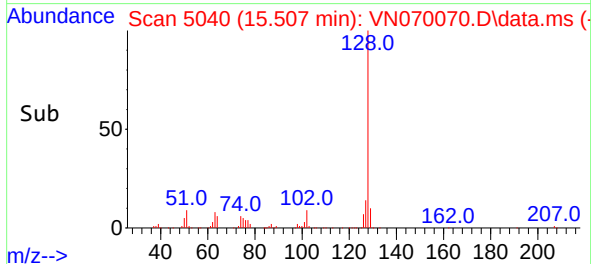
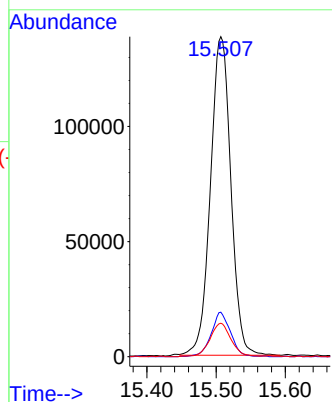


#95  
Naphthalene  
Concen: 8.281 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. -0.000 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:128 Resp: 283830  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.5 15.7  
129 10.9 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 2.561 ug/l  
RT: 15.702 min Scan# 5113  
Delta R.T. 0.000 min  
Lab File: VN070070.D  
Acq: 14 Dec 2021 14:44

Tgt Ion:180 Resp: 2613  
Ion Ratio Lower Upper  
180 100  
182 82.8 47.4 142.2  
145 39.1 15.0 45.1

