

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060622\  
 Data File : VN072671.D  
 Acq On : 06 Jun 2022 18:41  
 Operator : JC\MD  
 Sample : N3123-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 14B-2

Quant Time: Jun 07 06:29:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N060622W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jun 06 14:10:15 2022  
 Response via : Initial Calibration

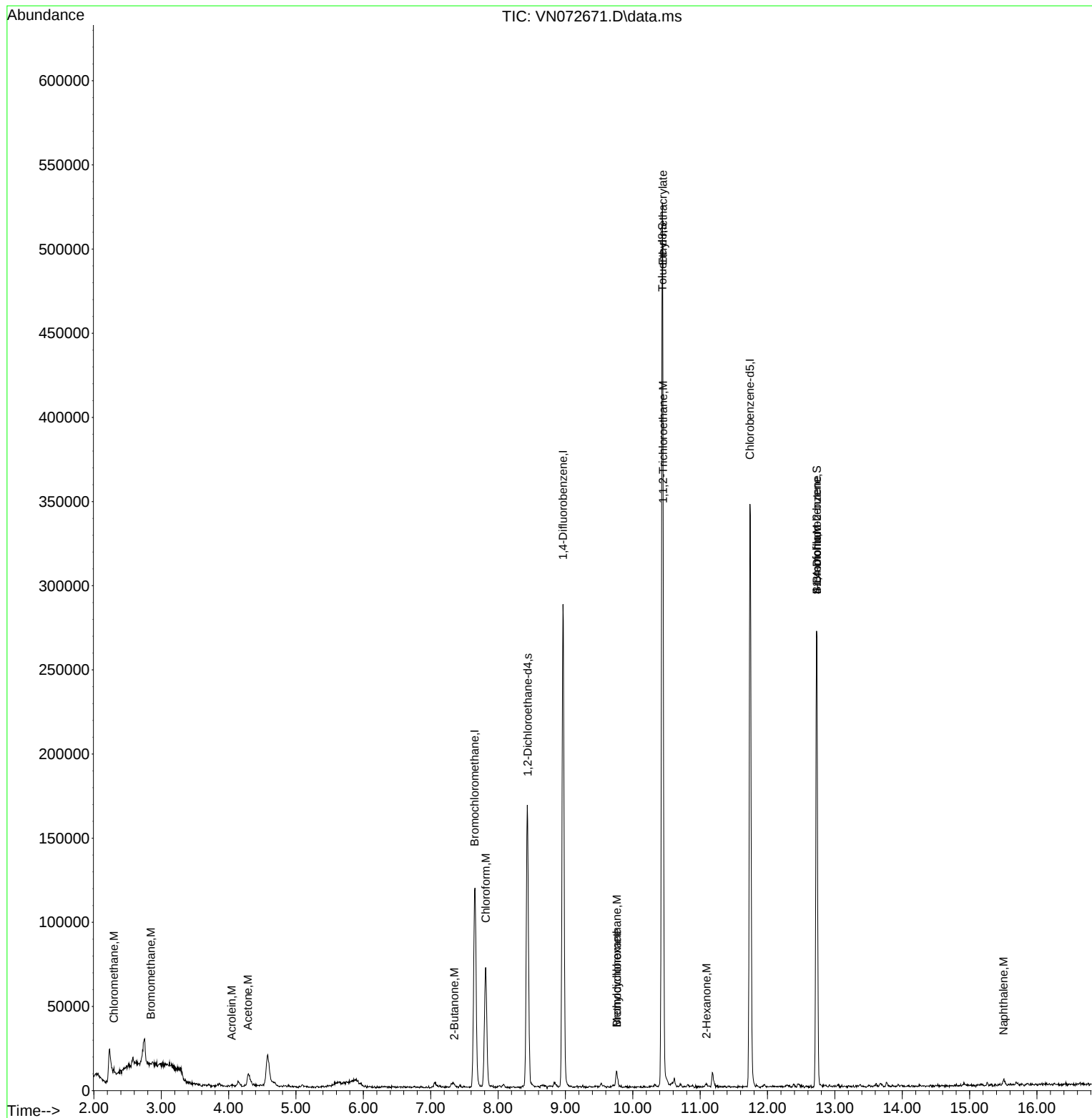
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.651  | 128   | 40135    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 8.963  | 114   | 238143   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.739 | 117   | 193239   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.439  | 65    | 140364   | 30.665   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 102.233% |
| 60) 4-Bromofluorobenzene    | 12.733 | 95    | 97362    | 24.497   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 81.667%  |
| 63) Toluene-d8              | 10.439 | 98    | 350528   | 32.746   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 109.167% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chloromethane            | 2.299  | 50    | 1071     | 0.328    | ug/l # | 84       |
| 5) Bromomethane             | 2.846  | 94    | 400      | 0.262    | ug/l # | 60       |
| 13) Acrolein                | 4.046  | 56    | 853      | 1.781    | ug/l   | 96       |
| 15) Acetone                 | 4.287  | 58    | 1803     | 2.986    | ug/l # | 36       |
| 25) Chloroform              | 7.816  | 83    | 65658    | 10.141   | ug/l   | 96       |
| 30) 2-Butanone              | 7.351  | 43    | 3651     | 1.111    | ug/l # | 63       |
| 38) Methylcyclohexane       | 9.763  | 83    | 5950     | 1.098    | ug/l # | 21       |
| 41) Bromodichloromethane    | 9.763  | 83    | 5950     | 1.098    | ug/l   | 92       |
| 50) 1,1,2-Trichloroethane   | 10.451 | 97    | 10492    | 2.930    | ug/l # | 1        |
| 51) Ethyl methacrylate      | 10.445 | 69    | 1358     | 0.209    | ug/l   | 97       |
| 56) Bromoform               | 12.733 | 173   | 760      | 0.276    | ug/l # | 1        |
| 59) 2-Hexanone              | 11.092 | 43    | 2109     | 0.480    | ug/l # | 79       |
| 77) t-1,4-Dichloro-2-butene | 12.733 | 75    | 55975    | 30.736   | ug/l # | 8        |
| 91) Naphthalene             | 15.504 | 128   | 4130     | 0.399    | ug/l # | 76       |
| -----                       |        |       |          |          |        |          |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060622\  
Data File : VN072671.D  
Acq On : 06 Jun 2022 18:41  
Operator : JC\MD  
Sample : N3123-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-2

Quant Time: Jun 07 06:29:37 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N060622W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Jun 06 14:10:15 2022  
Response via : Initial Calibration

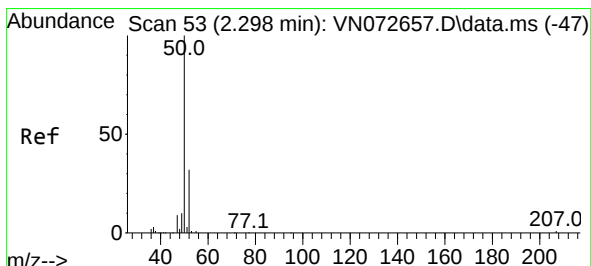
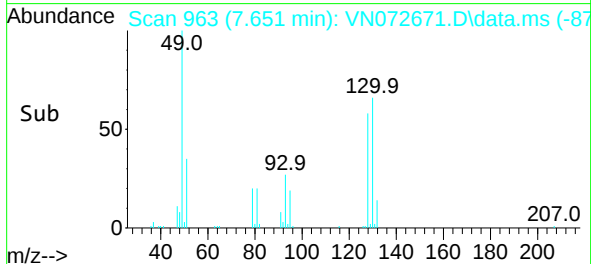
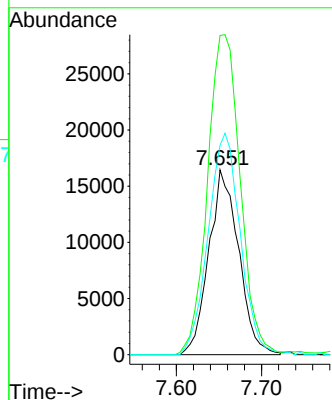
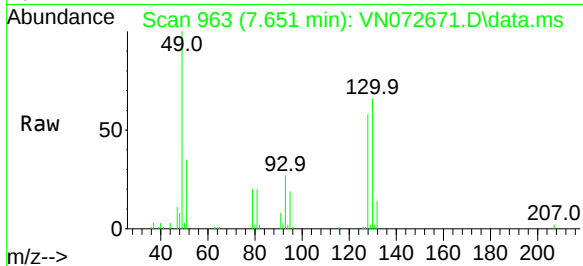




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.651 min Scan# 963  
Delta R.T. 0.000 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

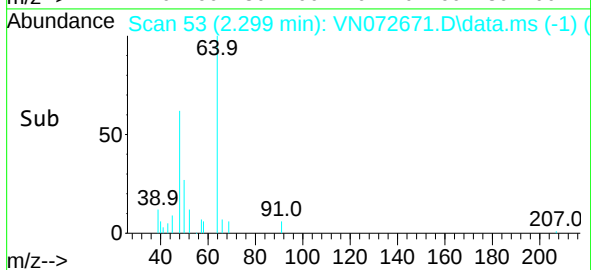
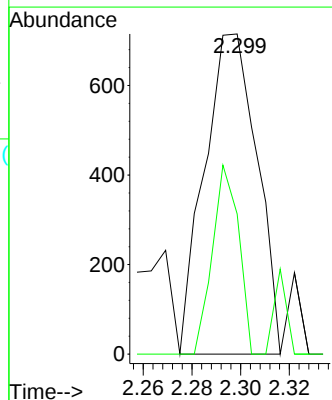
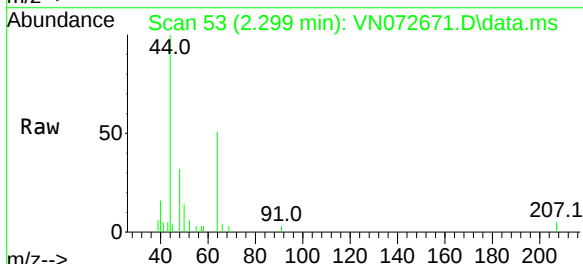
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-2

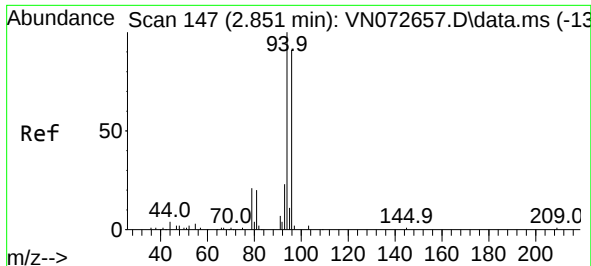
Tgt Ion:128 Resp: 40135  
Ion Ratio Lower Upper  
128 100  
49 188.4 0.0 392.3  
130 128.5 0.0 320.2



#3  
Chloromethane  
Concen: 0.328 ug/l  
RT: 2.299 min Scan# 53  
Delta R.T. 0.000 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

Tgt Ion: 50 Resp: 1071  
Ion Ratio Lower Upper  
50 100  
52 43.8 27.8 41.6#

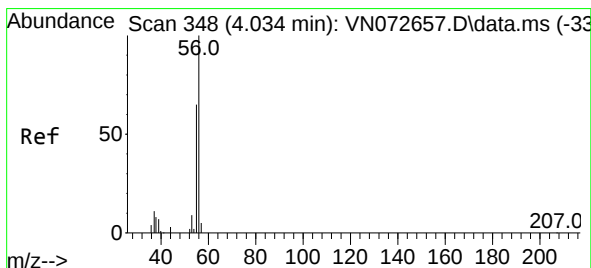
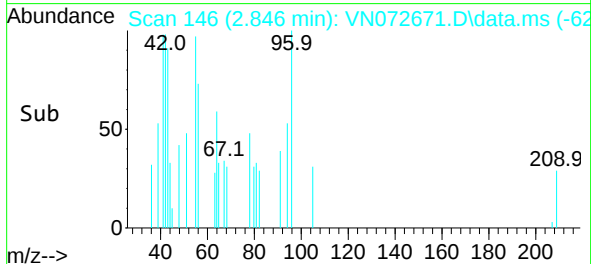
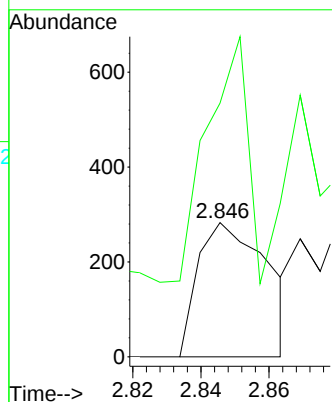
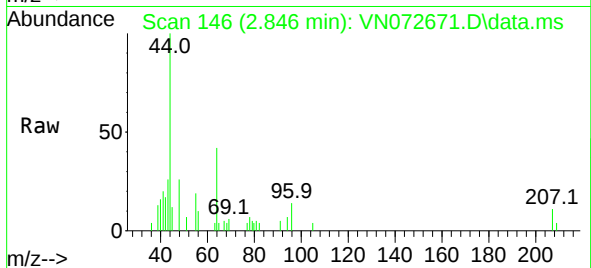




#5  
Bromomethane  
Concen: 0.262 ug/l  
RT: 2.846 min Scan# 14  
Delta R.T. -0.006 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

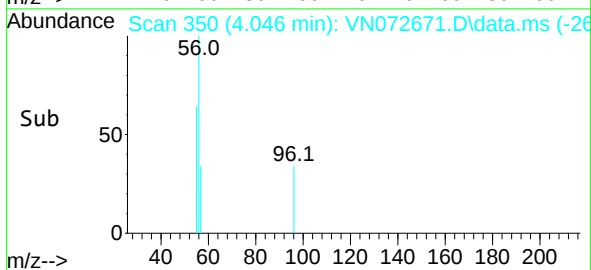
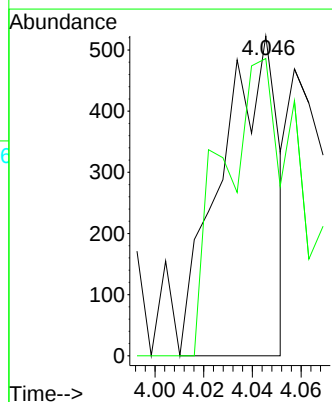
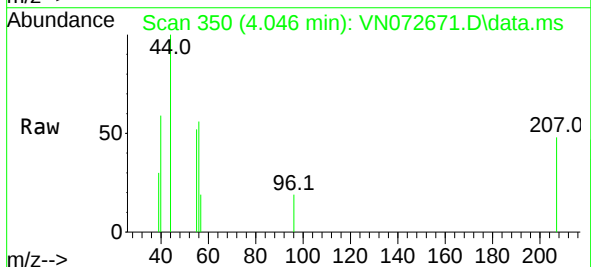
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-2

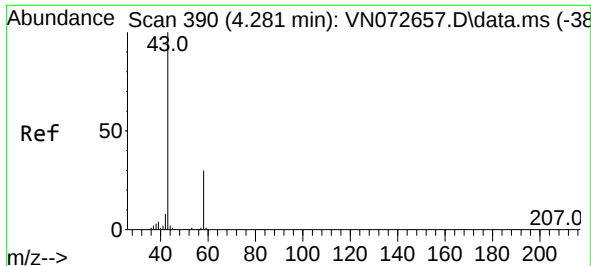
Tgt Ion: 94 Resp: 400  
Ion Ratio Lower Upper  
94 100  
96 132.5 75.2 112.8#



#13  
Acrolein  
Concen: 1.781 ug/l  
RT: 4.046 min Scan# 350  
Delta R.T. 0.012 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

Tgt Ion: 56 Resp: 853  
Ion Ratio Lower Upper  
56 100  
55 75.0 57.6 86.4

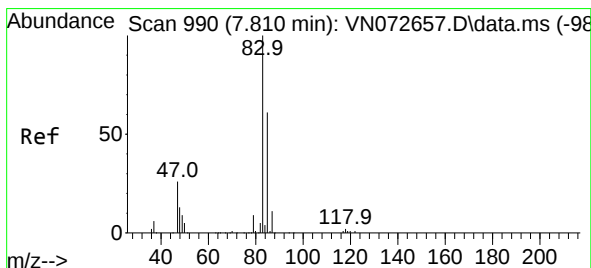
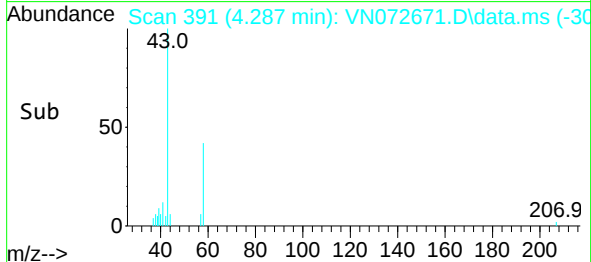
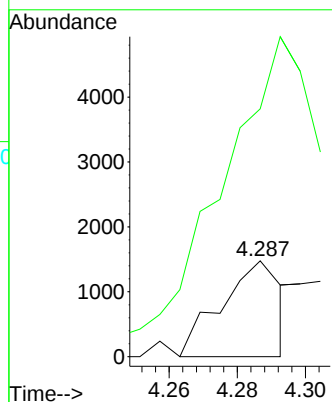
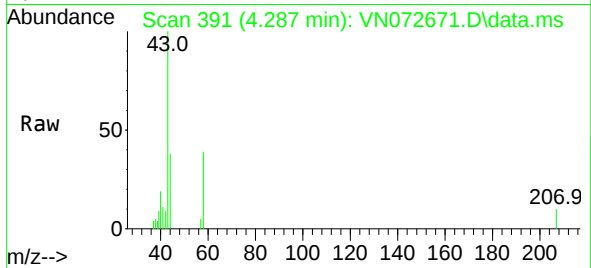




#15  
Acetone  
Concen: 2.986 ug/l  
RT: 4.287 min Scan# 391  
Delta R.T. 0.006 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

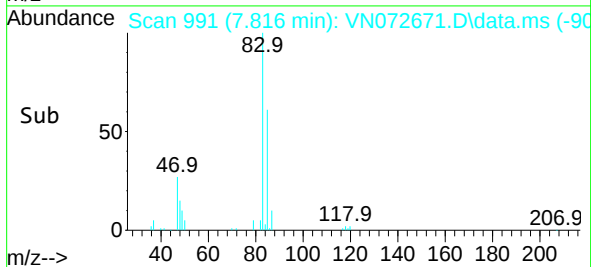
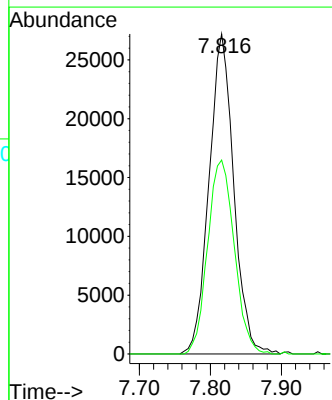
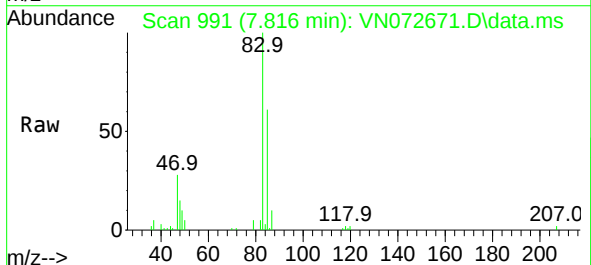
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-2

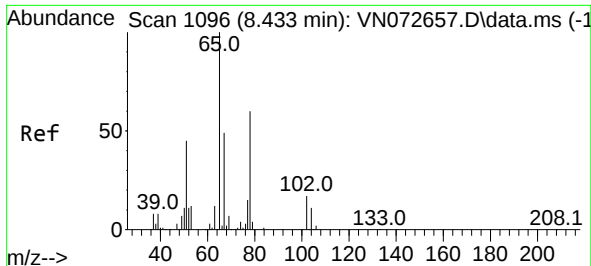
Tgt Ion: 58 Resp: 1803  
Ion Ratio Lower Upper  
58 100  
43 188.8 256.6 384.8#



#25  
Chloroform  
Concen: 10.141 ug/l  
RT: 7.816 min Scan# 991  
Delta R.T. 0.006 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

Tgt Ion: 83 Resp: 65658  
Ion Ratio Lower Upper  
83 100  
85 60.6 51.3 76.9





#27

1,2-Dichloroethane-d4

Concen: 30.665 ug/l

RT: 8.439 min Scan# 1109

Delta R.T. 0.006 min

Lab File: VN072671.D

Acq: 06 Jun 2022 18:41

Instrument :

MSVOA\_N

ClientSampleId :

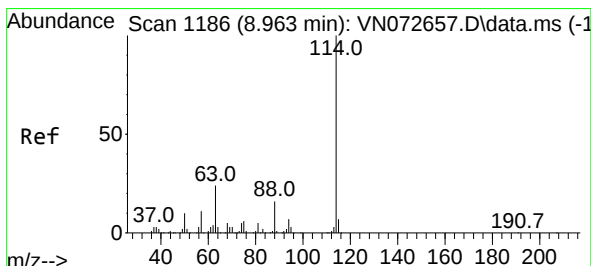
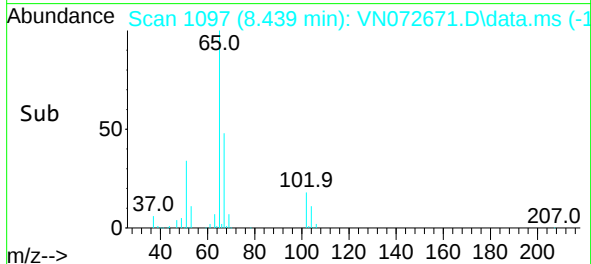
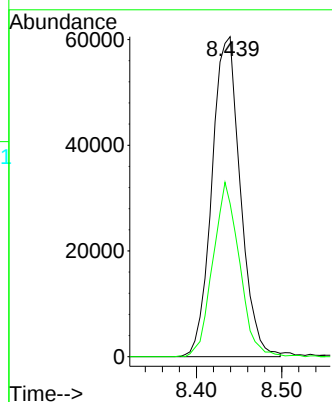
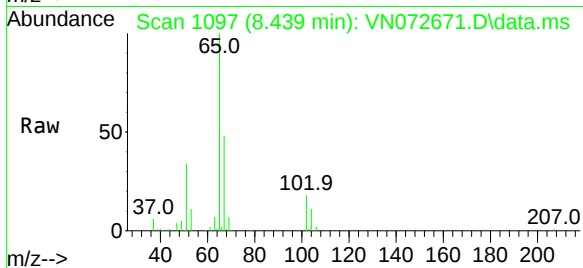
14B-2

Tgt Ion: 65 Resp: 140364

Ion Ratio Lower Upper

65 100

67 50.8 40.2 60.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. 0.000 min

Lab File: VN072671.D

Acq: 06 Jun 2022 18:41

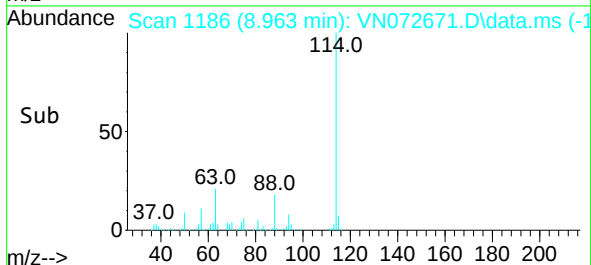
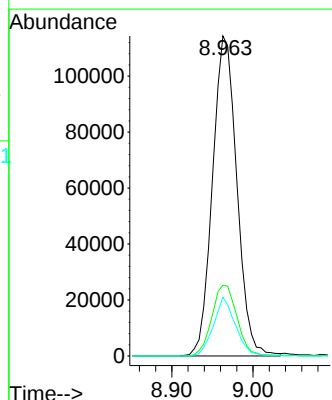
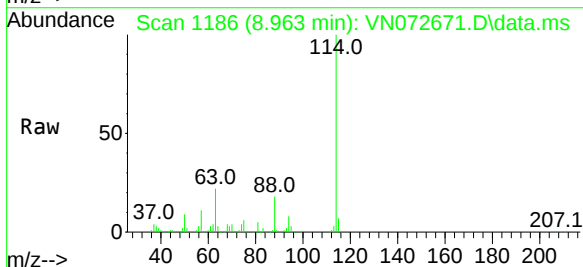
Tgt Ion: 114 Resp: 238143

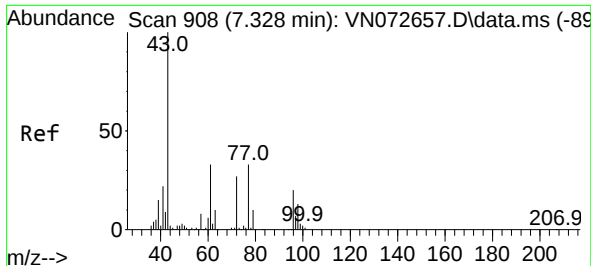
Ion Ratio Lower Upper

114 100

63 22.8 15.8 23.6

88 16.5 11.6 17.4

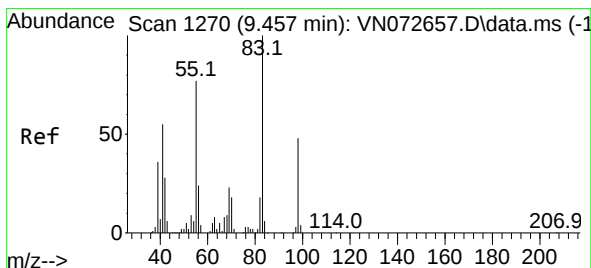
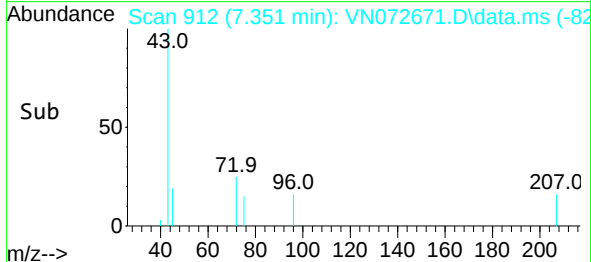
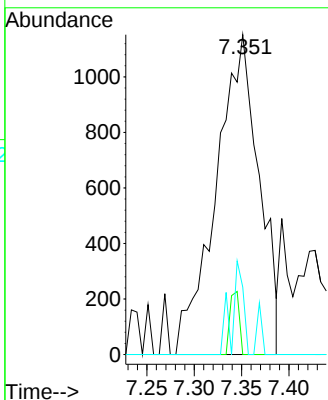
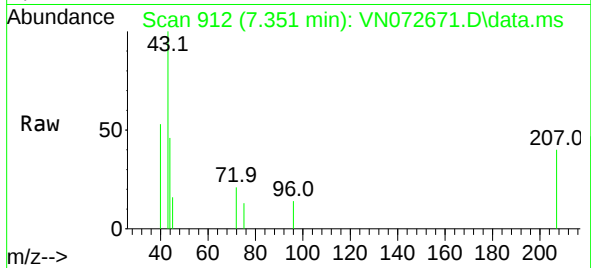




#30  
2-Butanone  
Concen: 1.111 ug/l  
RT: 7.351 min Scan# 91  
Delta R.T. 0.024 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

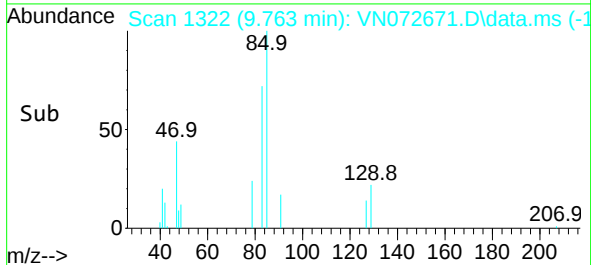
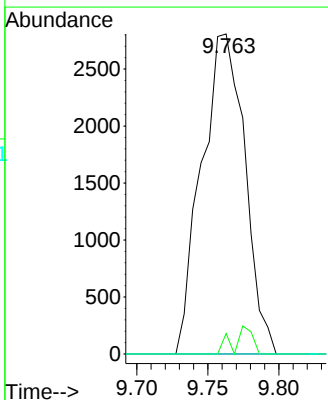
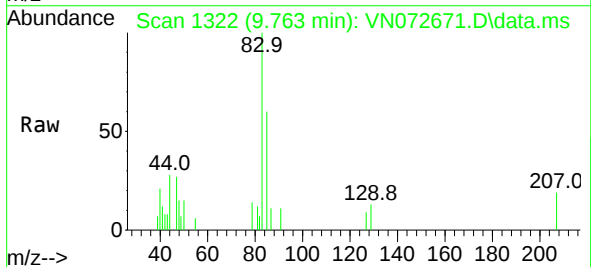
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-2

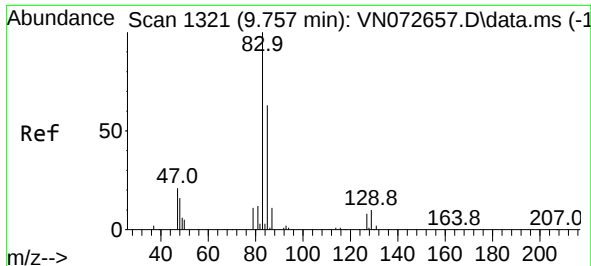
Tgt Ion: 43 Resp: 3651  
Ion Ratio Lower Upper  
43 100  
57 4.2 6.7 10.1#  
72 5.6 23.2 34.8#



#38  
Methylcyclohexane  
Concen: 1.098 ug/l  
RT: 9.763 min Scan# 1322  
Delta R.T. 0.306 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

Tgt Ion: 83 Resp: 5950  
Ion Ratio Lower Upper  
83 100  
55 1.1 35.1 105.3#  
98 0.0 23.4 70.2#

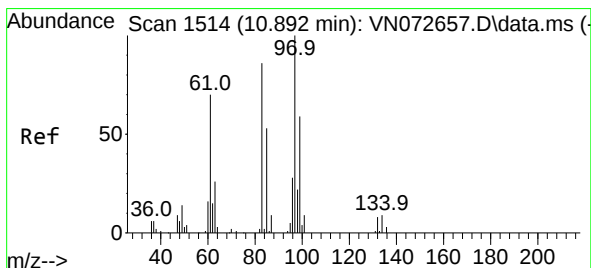
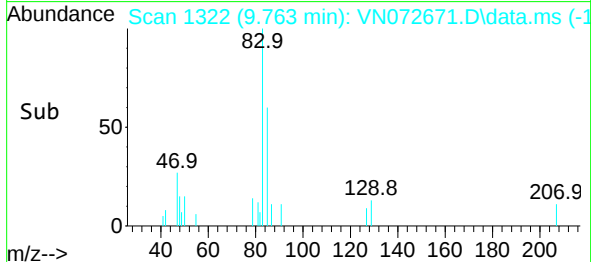
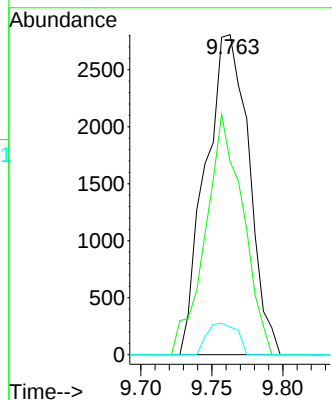
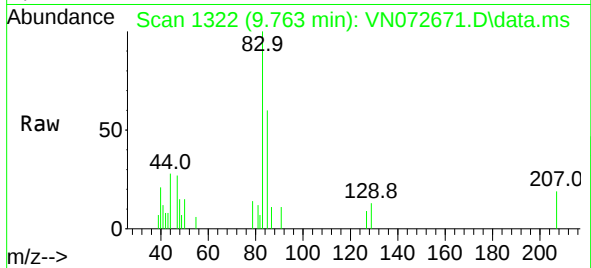




#41  
Bromodichloromethane  
Concen: 1.098 ug/l  
RT: 9.763 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

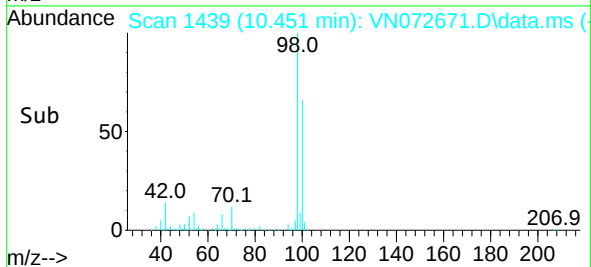
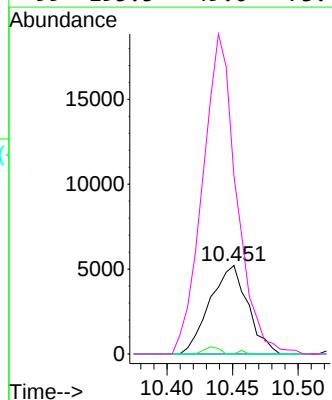
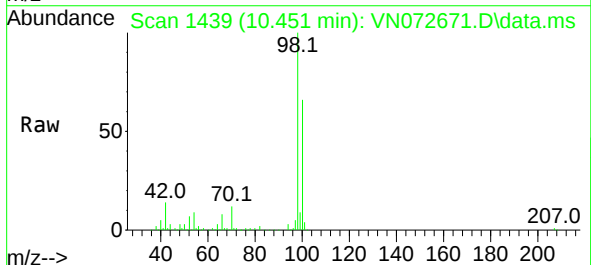
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-2

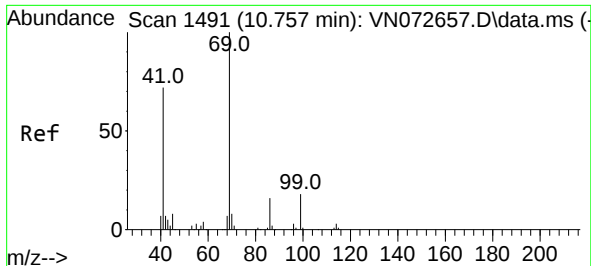
Tgt Ion: 83 Resp: 5950  
Ion Ratio Lower Upper  
83 100  
85 60.3 54.1 81.1  
127 8.7 7.6 11.4



#50  
1,1,2-Trichloroethane  
Concen: 2.930 ug/l  
RT: 10.451 min Scan# 1439  
Delta R.T. -0.441 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

Tgt Ion: 97 Resp: 10492  
Ion Ratio Lower Upper  
97 100  
83 0.0 67.2 100.8#  
85 0.0 43.0 64.4#  
99 195.5 49.0 73.4#

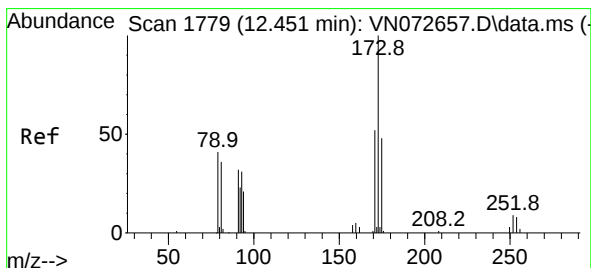
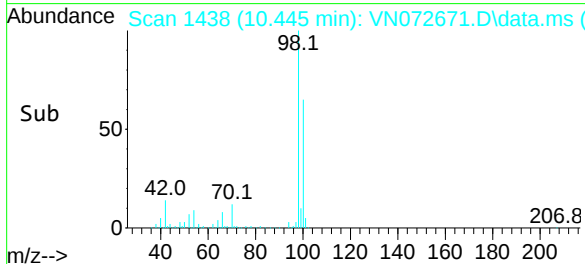
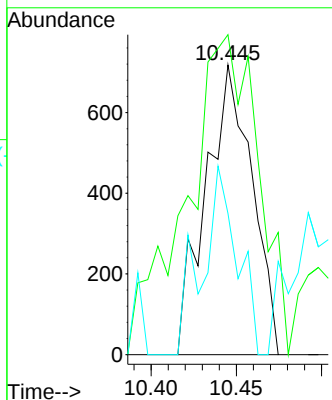
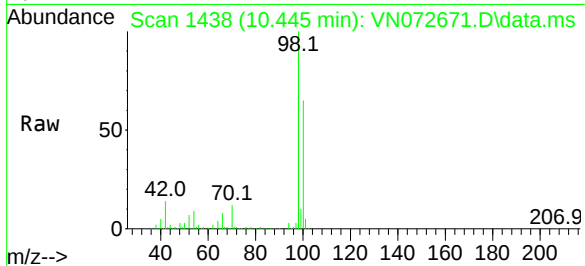




#51  
Ethyl methacrylate  
Concen: 0.209 ug/l  
RT: 10.445 min Scan# 1491  
Delta R.T. -0.312 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

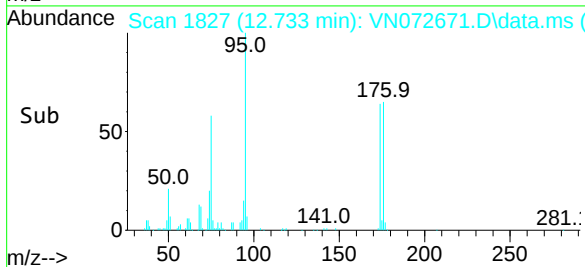
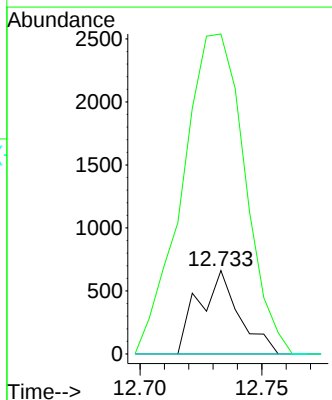
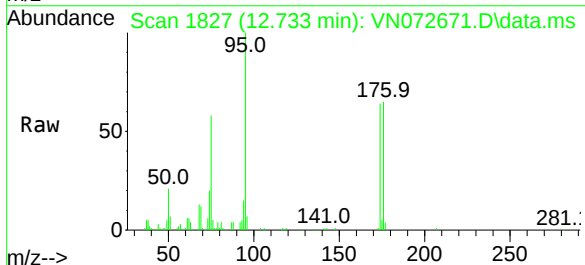
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-2

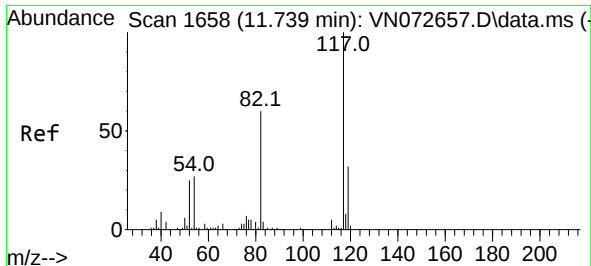
Tgt Ion: 69 Resp: 1358  
Ion Ratio Lower Upper  
69 100  
41 68.2 33.0 98.9  
39 48.7 25.4 76.4



#56  
Bromoform  
Concen: 0.276 ug/l  
RT: 12.733 min Scan# 1827  
Delta R.T. 0.282 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

Tgt Ion: 173 Resp: 760  
Ion Ratio Lower Upper  
173 100  
175 597.8 38.6 58.0#  
254 0.0 0.0 0.0

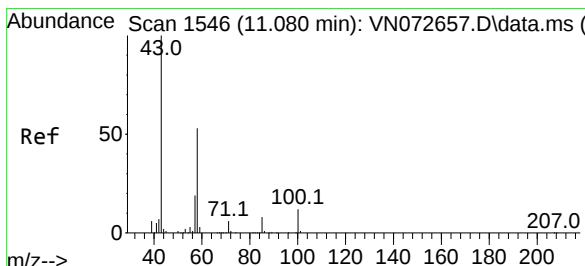
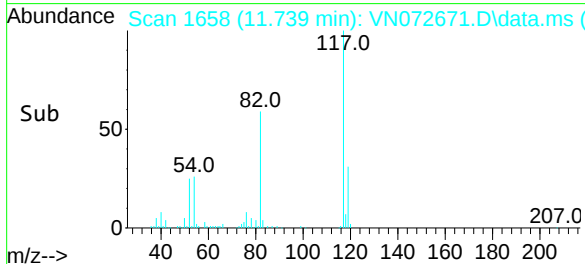
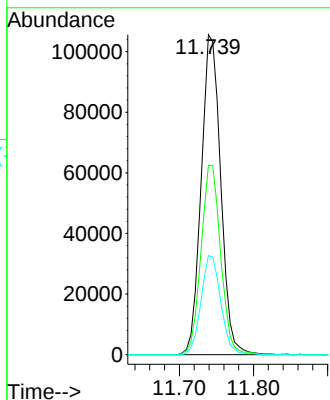
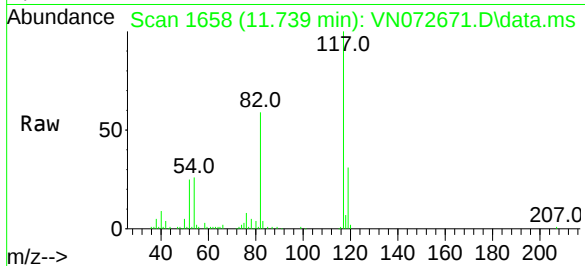




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.739 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

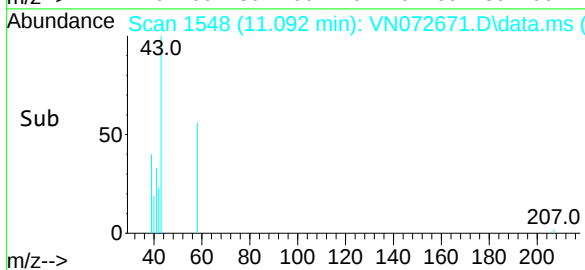
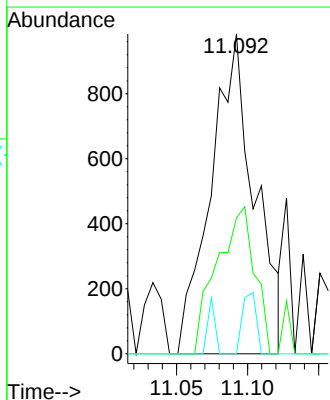
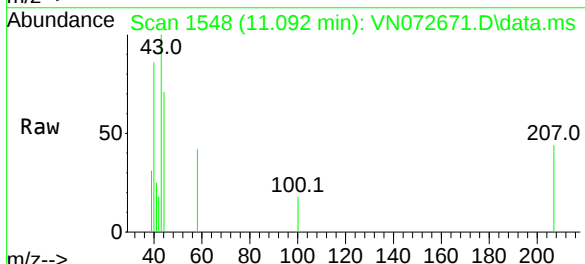
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-2

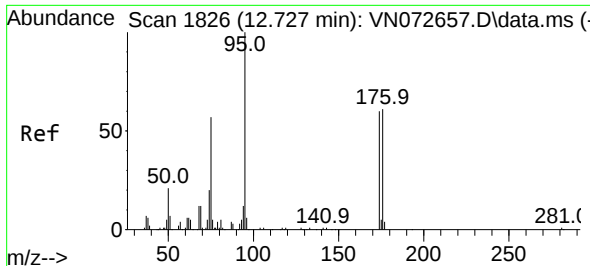
Tgt Ion:117 Resp: 193239  
Ion Ratio Lower Upper  
117 100  
82 59.7 43.6 65.4  
119 31.3 25.8 38.6



#59  
2-Hexanone  
Concen: 0.480 ug/l  
RT: 11.092 min Scan# 1548  
Delta R.T. 0.012 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

Tgt Ion: 43 Resp: 2109  
Ion Ratio Lower Upper  
43 100  
58 39.8 42.2 63.2#  
57 6.1 15.0 22.4#

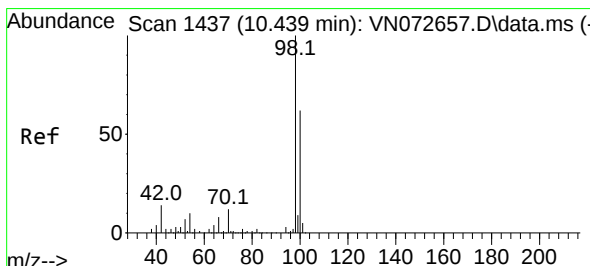
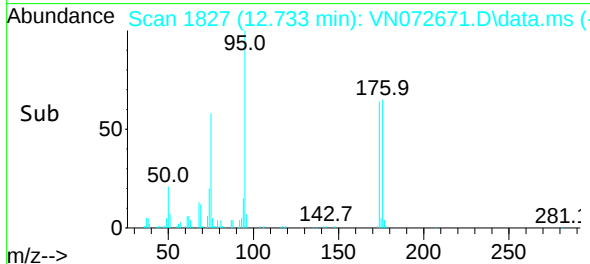
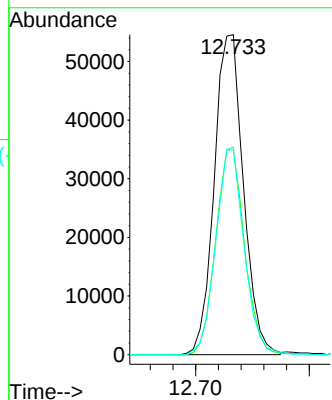
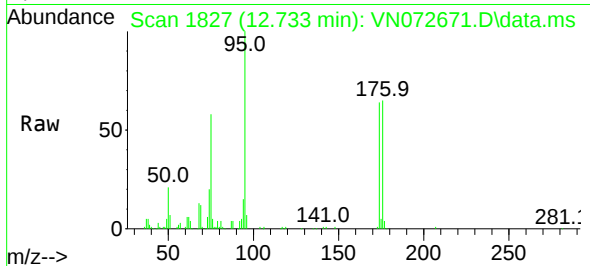




#60  
4-Bromofluorobenzene  
Concen: 24.497 ug/l  
RT: 12.733 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

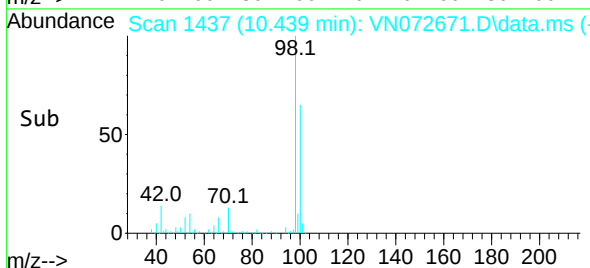
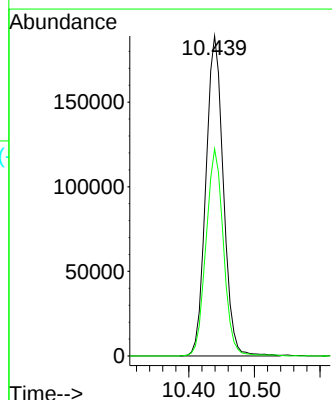
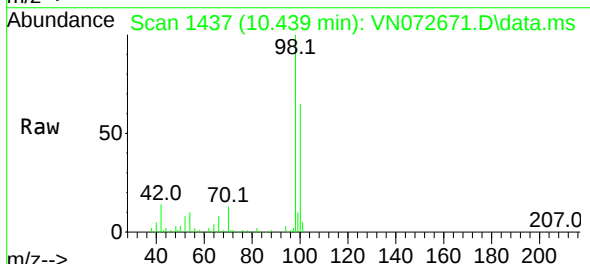
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-2

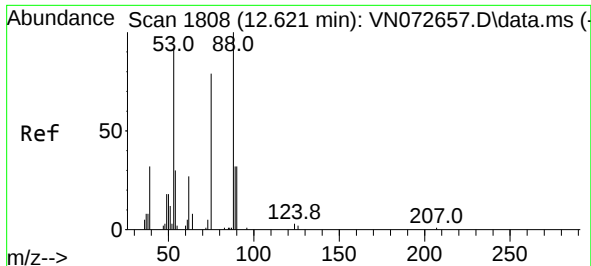
Tgt Ion: 95 Resp: 97362  
Ion Ratio Lower Upper  
95 100  
174 63.5 62.9 94.3  
176 62.6 61.0 91.4



#63  
Toluene-d8  
Concen: 32.746 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

Tgt Ion: 98 Resp: 350528  
Ion Ratio Lower Upper  
98 100  
100 64.4 50.6 76.0

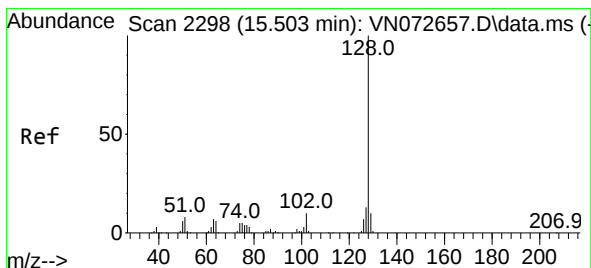
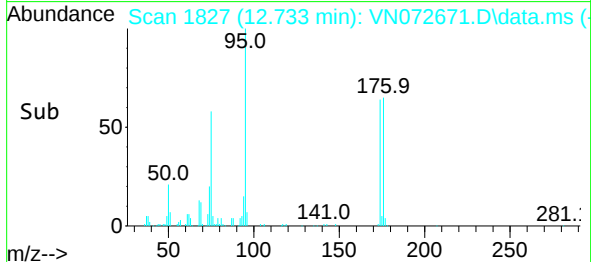
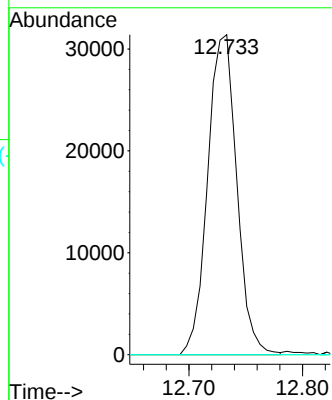
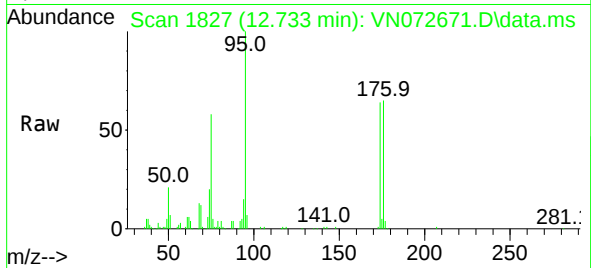




#77  
t-1,4-Dichloro-2-butene  
Concen: 30.736 ug/l  
RT: 12.733 min Scan# 1808  
Delta R.T. 0.112 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-2

Tgt Ion: 75 Resp: 55975  
Ion Ratio Lower Upper  
75 100  
53 0.0 51.8 155.5#  
89 0.0 22.9 68.7#



#91  
Naphthalene  
Concen: 0.399 ug/l  
RT: 15.504 min Scan# 2298  
Delta R.T. 0.000 min  
Lab File: VN072671.D  
Acq: 06 Jun 2022 18:41

Tgt Ion: 128 Resp: 4130  
Ion Ratio Lower Upper  
128 100  
127 5.7 10.7 16.1#  
129 0.0 9.0 13.6#

