

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120321\  
 Data File : VN069723.D  
 Acq On : 3 Dec 2021 17:20  
 Operator : JC/MD  
 Sample : M4922-16  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

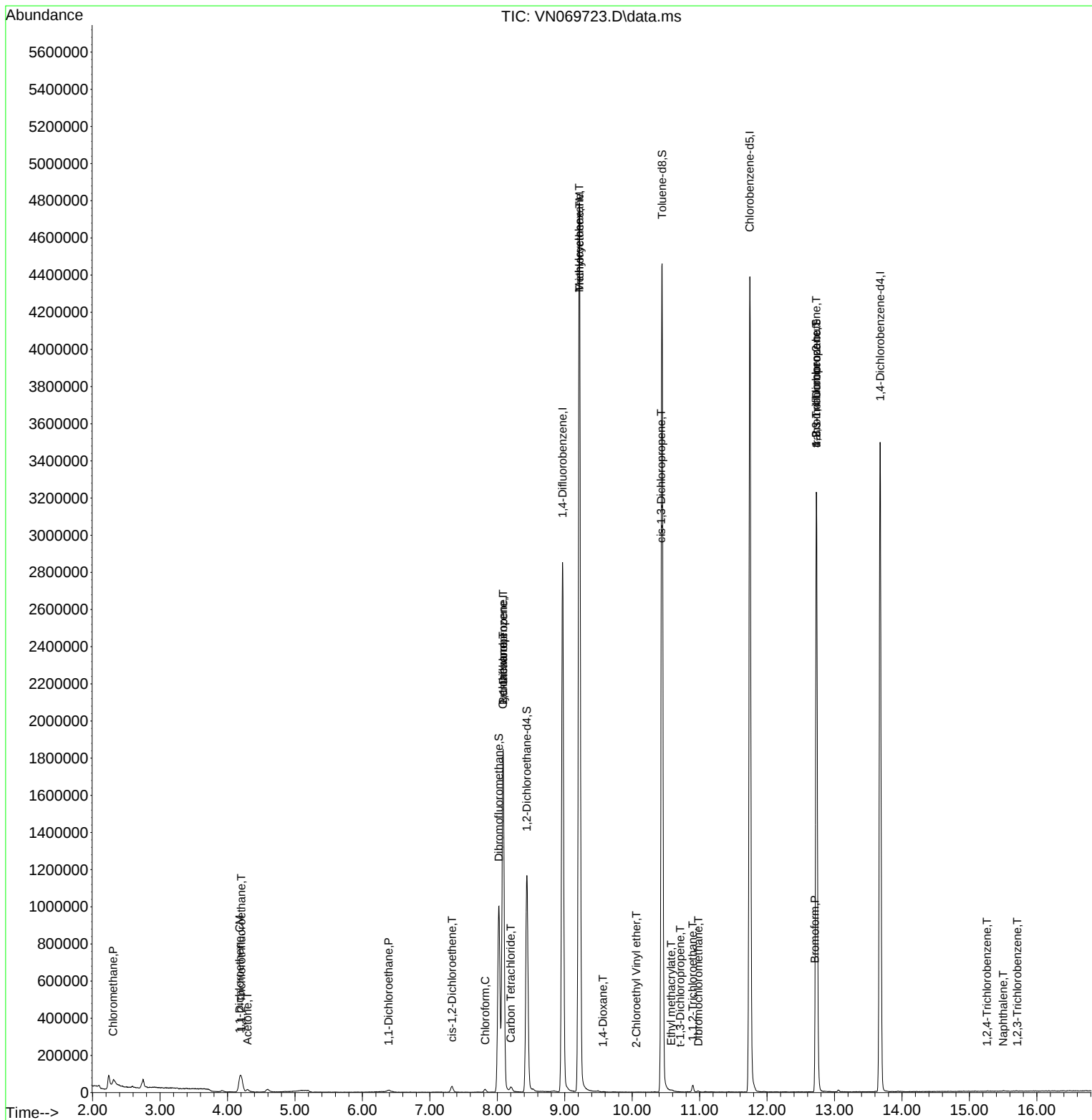
Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 04 05:34:15 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         | 8.086  | 168   | 1374439  | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968  | 114   | 2420614  | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.744 | 117   | 2461013  | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678 | 152   | 929591   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.437  | 65    | 1046845  | 49.330   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | =      | 98.660%  |
| 35) Dibromofluoromethane      | 8.024  | 113   | 721845   | 47.608   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | =      | 95.220%  |
| 50) Toluene-d8                | 10.443 | 98    | 3058903  | 50.244   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | =      | 100.480% |
| 62) 4-Bromofluorobenzene      | 12.731 | 95    | 1142967  | 51.821   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | =      | 103.640% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.303  | 50    | 4974     | 0.248    | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.205  | 101   | 43229    | 3.182    | ug/l # | 72       |
| 12) 1,1-Dichloroethene        | 4.178  | 96    | 27002    | 2.062    | ug/l   | 92       |
| 16) Acetone                   | 4.296  | 43    | 23666    | 1.854    | ug/l   | 100      |
| 24) 1,1-Dichloroethane        | 6.385  | 63    | 11243    | 0.376    | ug/l # | 88       |
| 27) cis-1,2-Dichloroethene    | 7.329  | 96    | 16498    | 0.960    | ug/l   | 91       |
| 30) Chloroform                | 7.820  | 83    | 14275    | 0.473    | ug/l   | 96       |
| 31) Cyclohexane               | 8.083  | 56    | 36253    | 1.228    | ug/l # | 39       |
| 36) 1,1-Dichloropropene       | 8.086  | 75    | 117494   | 5.099    | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.198  | 117   | 16756    | 0.742    | ug/l   | 90       |
| 39) Methylcyclohexane         | 9.215  | 83    | 22237    | 0.811    | ug/l # | 1        |
| 44) Trichloroethene           | 9.217  | 130   | 1695602  | 100.860  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.566  | 88    | 622      | 1.464    | ug/l # | 22       |
| 53) t-1,3-Dichloropropene     | 10.711 | 75    | 90       | 2.797    | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 10.430 | 75    | 276      | 2.008    | ug/l # | 1        |
| 55) 1,1,2-Trichloroethane     | 10.896 | 97    | 10911    | 0.629    | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.577 | 69    | 135      | 2.283    | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether | 10.062 | 63    | 25       | 18.391   | ug/l # | 45       |
| 60) Dibromochloromethane      | 10.982 | 129   | 1286     | 2.442    | ug/l # | 11       |
| 71) Bromoform                 | 12.709 | 173   | 412      | 2.757    | ug/l # | 29       |
| 76) 1,2,3-Trichloropropane    | 12.731 | 75    | 643395   | 24.135   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.731 | 75    | 643395   | 76.635   | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 15.260 | 180   | 310      | 2.897    | ug/l # | 63       |
| 95) Naphthalene               | 15.501 | 128   | 2820     | 4.042    | ug/l # | 78       |
| 96) 1,2,3-Trichlorobenzene    | 15.708 | 180   | 329      | 2.457    | ug/l # | 12       |
| -----                         |        |       |          |          |        |          |

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

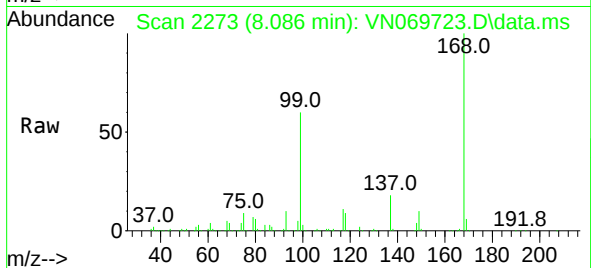
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 03 08:46:47 2021  
Response via : Initial Calibration



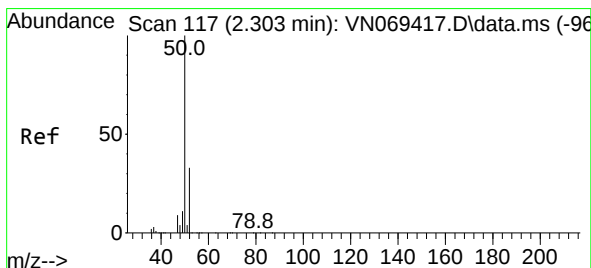
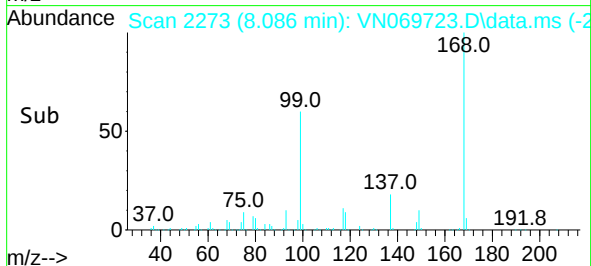
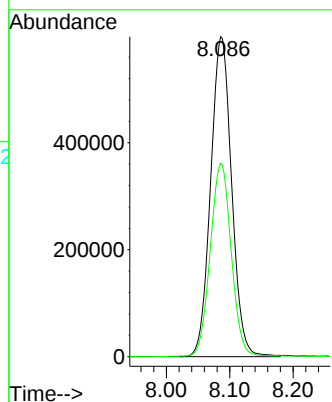


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

Instrument :  
MSVOA\_N  
ClientSampleId :

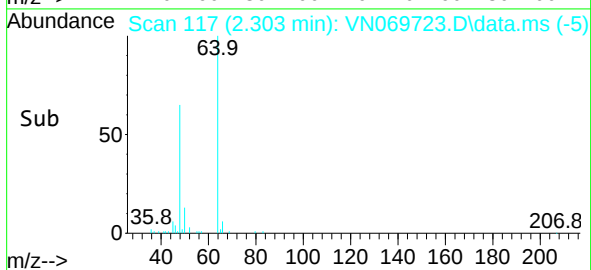
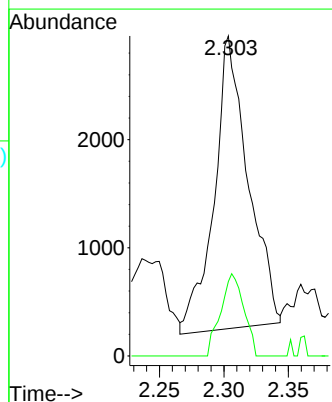
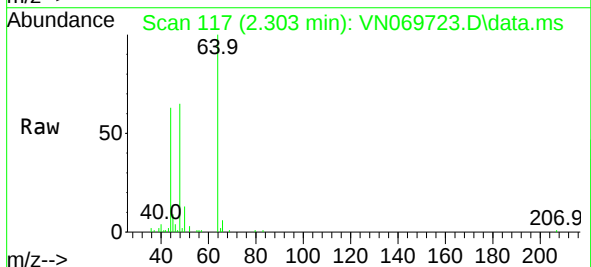


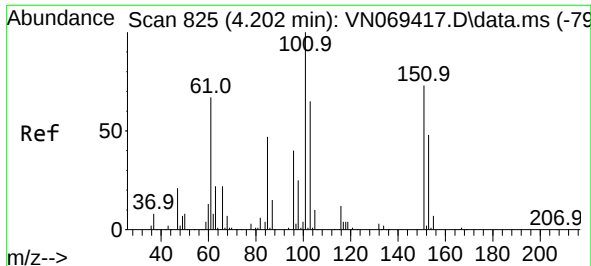
Tgt Ion:168 Resp: 1374439  
Ion Ratio Lower Upper  
168 100  
99 60.2 41.3 61.9



#3  
Chloromethane  
Concen: 0.248 ug/l  
RT: 2.303 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

Tgt Ion: 50 Resp: 4974  
Ion Ratio Lower Upper  
50 100  
52 26.0 25.4 38.0

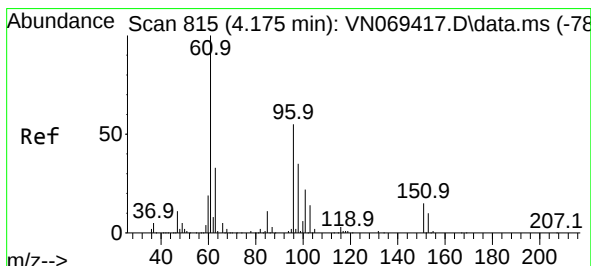
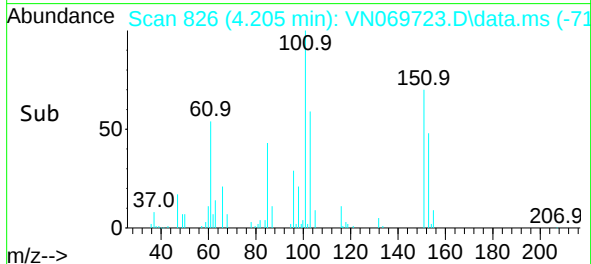
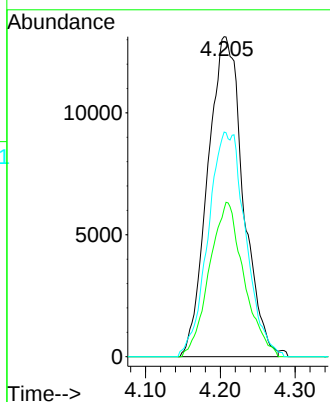
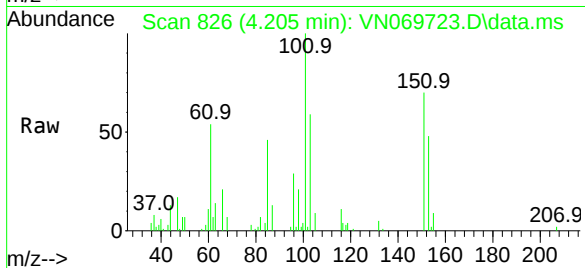




#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 3.182 ug/l  
 RT: 4.205 min Scan# 81  
 Delta R.T. 0.003 min  
 Lab File: VN069723.D  
 Acq: 3 Dec 2021 17:20

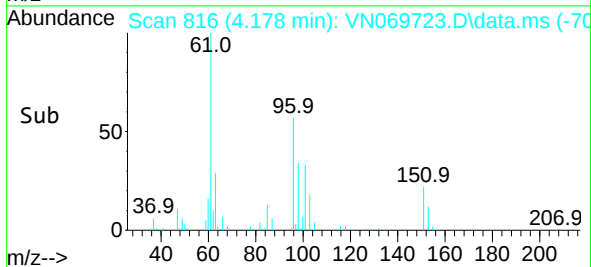
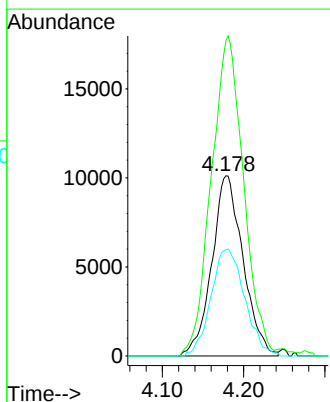
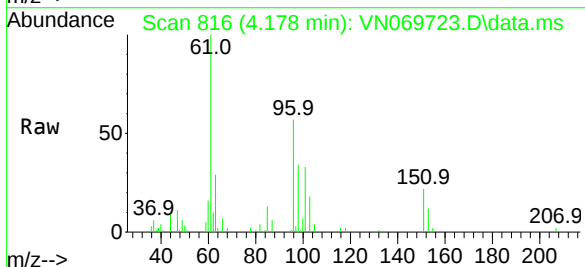
Instrument :  
 MSVOA\_N  
 ClientSampleId :

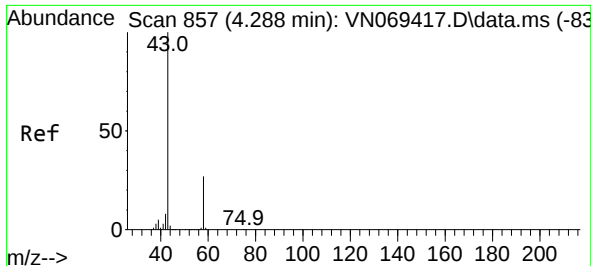
Tgt Ion:101 Resp: 43229  
 Ion Ratio Lower Upper  
 101 100  
 85 47.1 37.2 55.8  
 151 43.6 65.9 98.9#



#12  
 1,1-Dichloroethene  
 Concen: 2.062 ug/l  
 RT: 4.178 min Scan# 816  
 Delta R.T. 0.003 min  
 Lab File: VN069723.D  
 Acq: 3 Dec 2021 17:20

Tgt Ion: 96 Resp: 27002  
 Ion Ratio Lower Upper  
 96 100  
 61 174.8 131.0 196.6  
 98 59.1 52.4 78.6

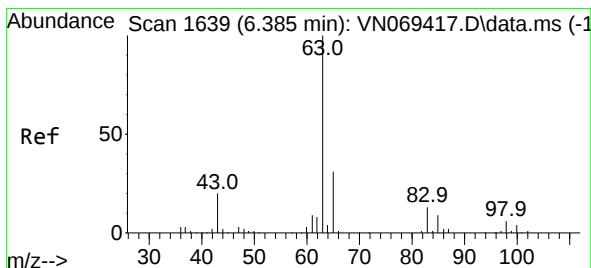
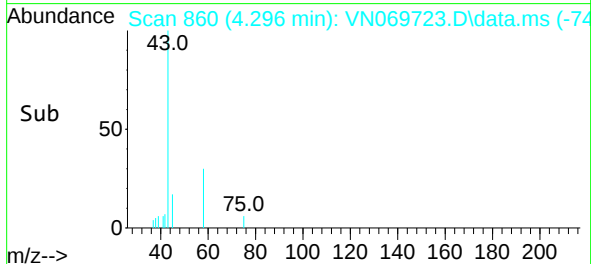
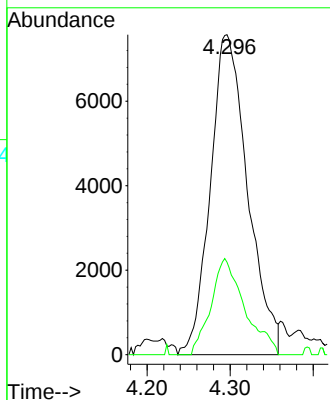
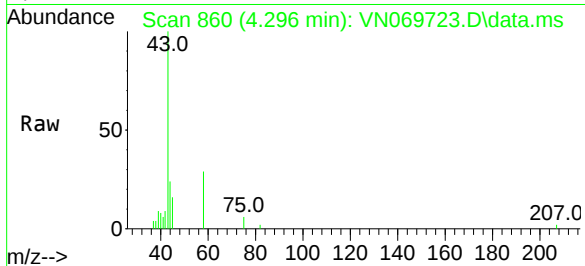




#16  
Acetone  
Concen: 1.854 ug/l  
RT: 4.296 min Scan# 857  
Delta R.T. 0.006 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

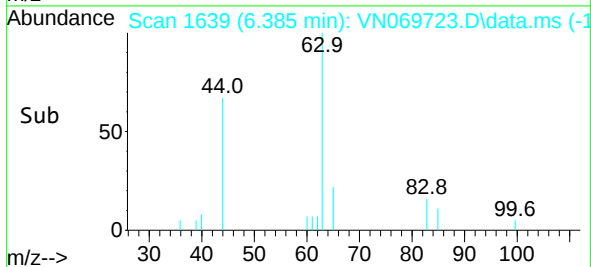
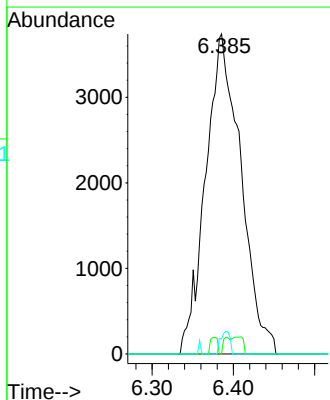
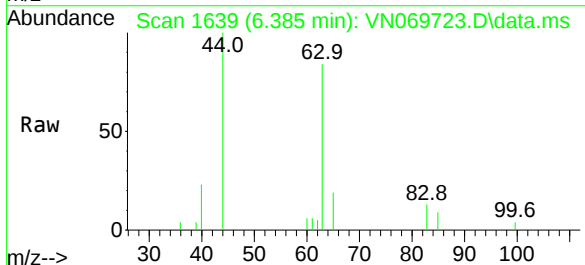
Instrument :  
MSVOA\_N  
ClientSampleId :

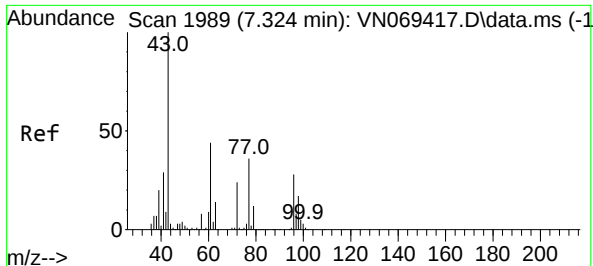
Tgt Ion: 43 Resp: 23666  
Ion Ratio Lower Upper  
43 100  
58 28.9 23.1 34.7



#24  
1,1-Dichloroethane  
Concen: 0.376 ug/l  
RT: 6.385 min Scan# 1639  
Delta R.T. -0.002 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

Tgt Ion: 63 Resp: 11243  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.3 9.9#  
100 4.7 2.1 6.5

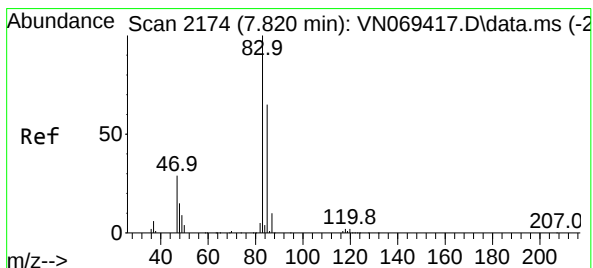
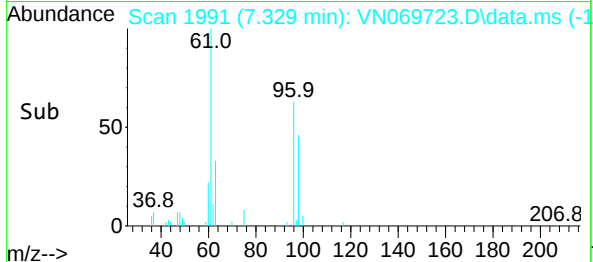
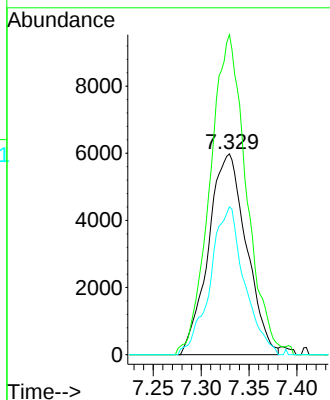
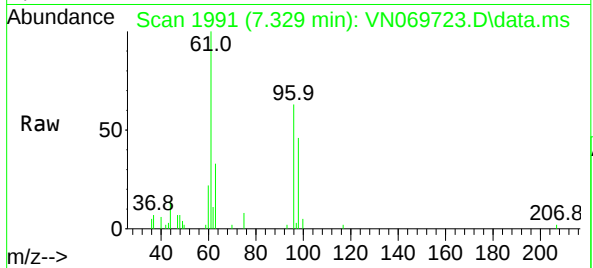




#27  
 cis-1,2-Dichloroethene  
 Concen: 0.960 ug/l  
 RT: 7.329 min Scan# 1989  
 Delta R.T. 0.003 min  
 Lab File: VN069723.D  
 Acq: 3 Dec 2021 17:20

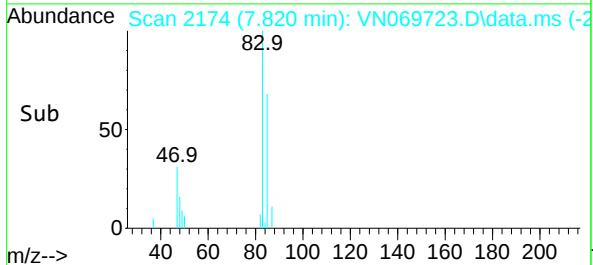
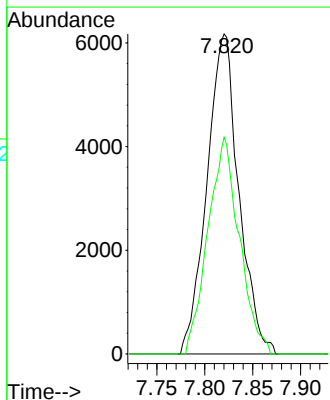
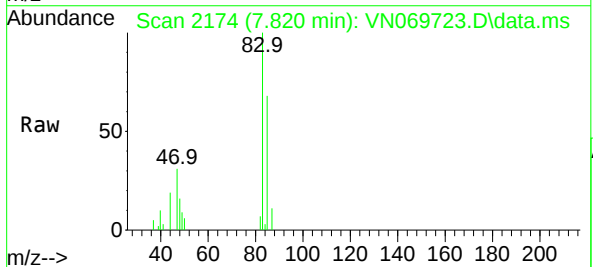
Instrument :  
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 ClientSampleId :

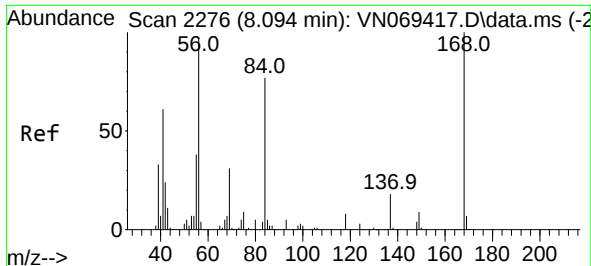
Tgt Ion: 96 Resp: 16498  
 Ion Ratio Lower Upper  
 96 100  
 61 152.1 0.0 275.0  
 98 65.9 0.0 129.6



#30  
 Chloroform  
 Concen: 0.473 ug/l  
 RT: 7.820 min Scan# 2174  
 Delta R.T. 0.000 min  
 Lab File: VN069723.D  
 Acq: 3 Dec 2021 17:20

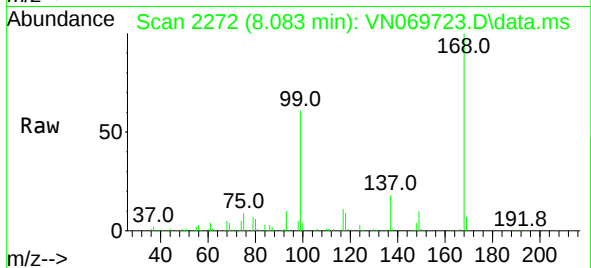
Tgt Ion: 83 Resp: 14275  
 Ion Ratio Lower Upper  
 83 100  
 85 67.8 51.9 77.9



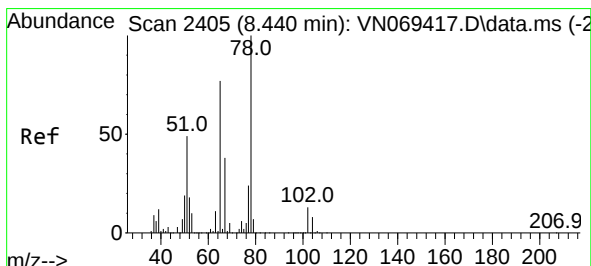
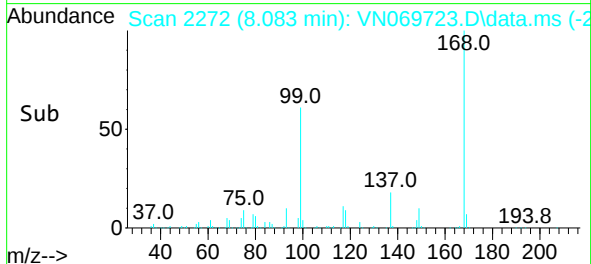
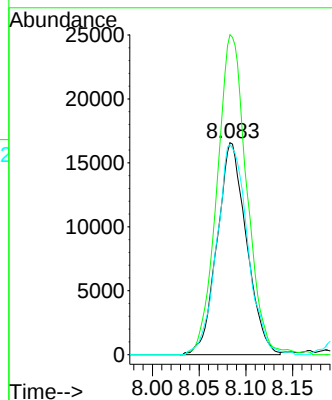


#31  
Cyclohexane  
Concen: 1.228 ug/l  
RT: 8.083 min Scan# 21  
Delta R.T. -0.011 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

Instrument :  
MSVOA\_N  
ClientSampleId :

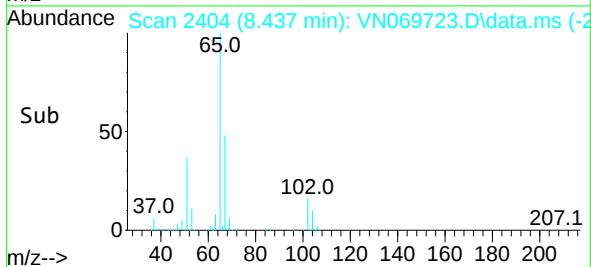
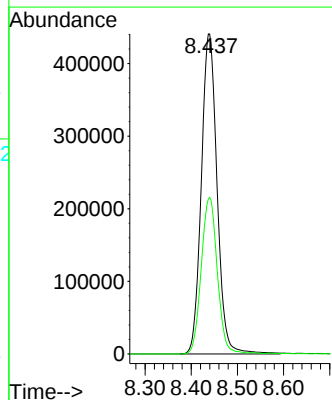
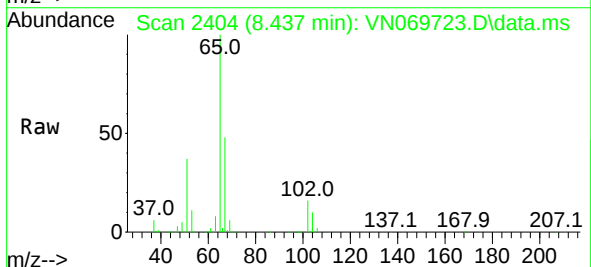


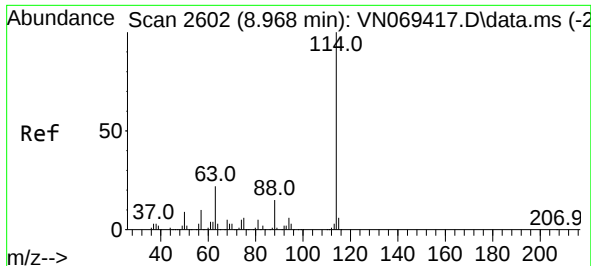
Tgt Ion: 56 Resp: 36253  
Ion Ratio Lower Upper  
56 100  
69 151.0 27.1 40.7#  
84 99.1 73.4 110.0



#33  
1,2-Dichloroethane-d4  
Concen: 49.330 ug/l  
RT: 8.437 min Scan# 2404  
Delta R.T. 0.000 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

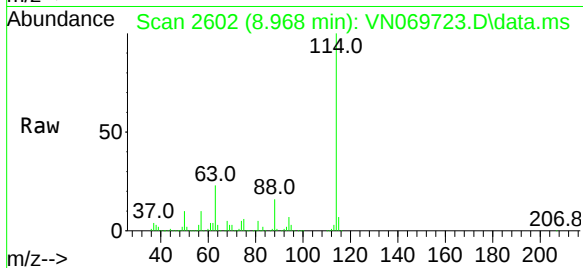
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Ion Ratio Lower Upper  
65 100  
67 49.6 0.0 103.0



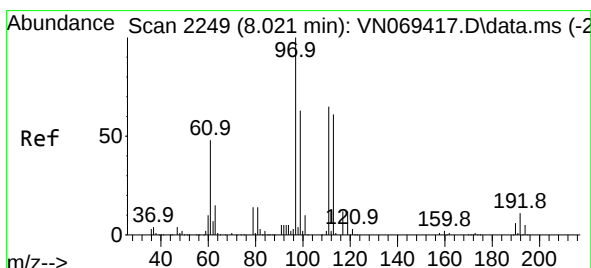
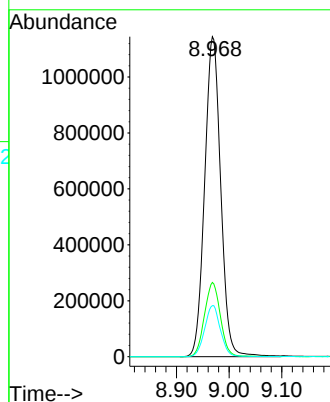
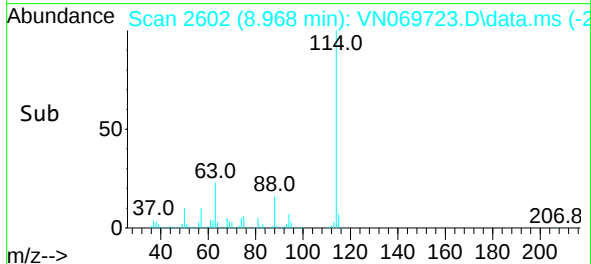


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.968 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

Instrument :  
MSVOA\_N  
ClientSampleId :

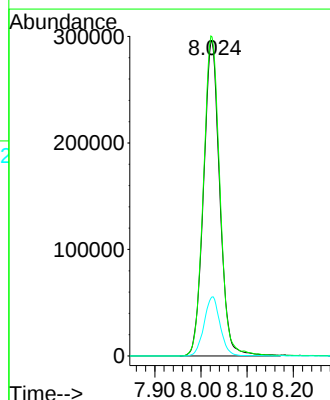
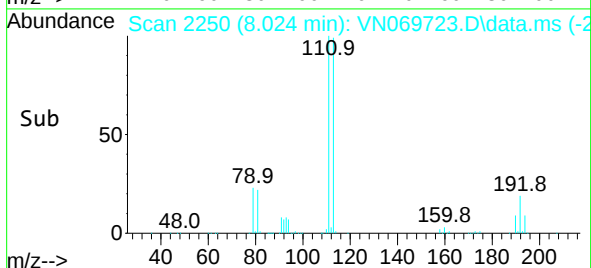
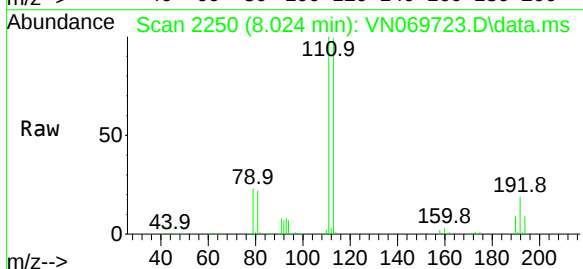


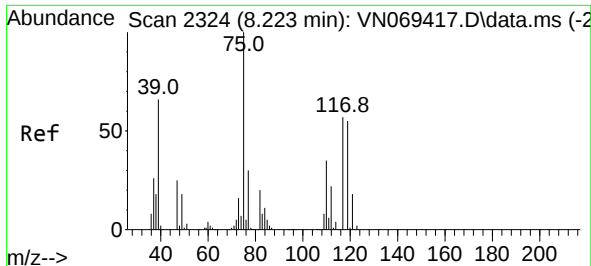
Tgt Ion:114 Resp: 2420614  
Ion Ratio Lower Upper  
114 100  
63 23.2 0.0 37.8  
88 16.0 0.0 27.4



#35  
Dibromofluoromethane  
Concen: 47.608 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.000 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

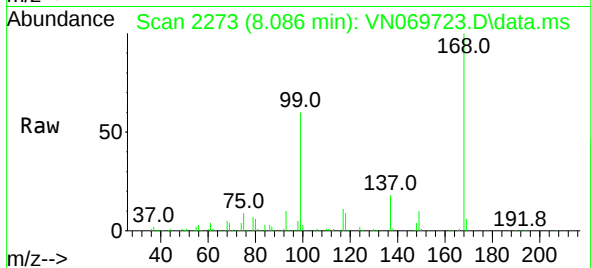
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Ion Ratio Lower Upper  
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111 101.8 82.2 123.2  
192 18.6 16.9 25.3



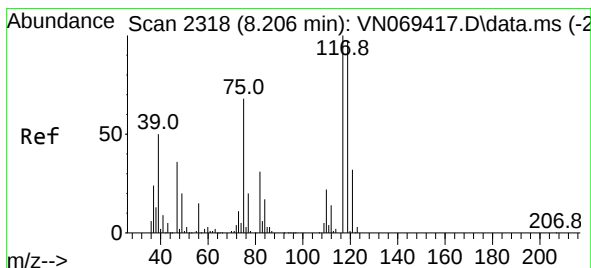
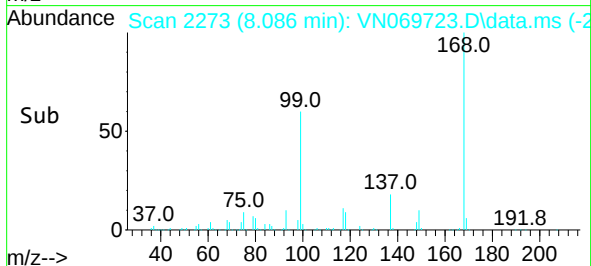
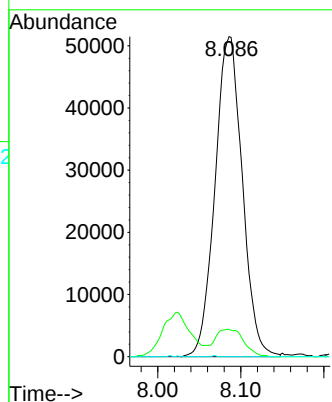


#36  
1,1-Dichloropropene  
Concen: 5.099 ug/l  
RT: 8.086 min Scan# 21  
Delta R.T. -0.137 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

Instrument :  
MSVOA\_N  
ClientSampleId :

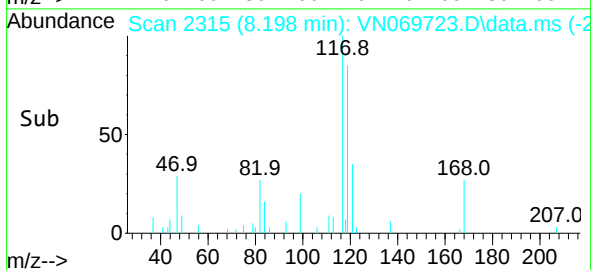
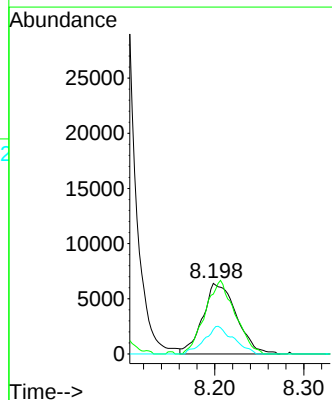
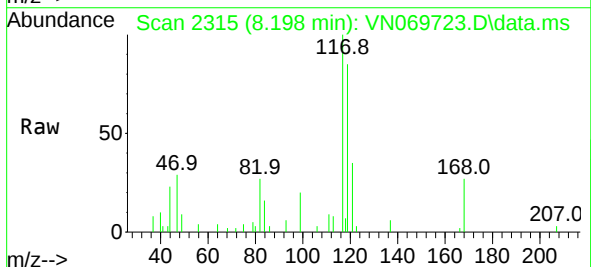


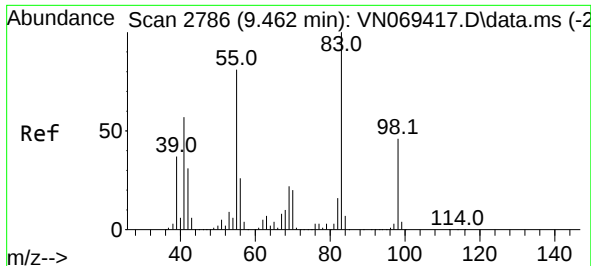
Tgt Ion: 75 Resp: 117494  
Ion Ratio Lower Upper  
75 100  
110 8.9 18.4 55.2#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 0.742 ug/l  
RT: 8.198 min Scan# 2315  
Delta R.T. -0.008 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

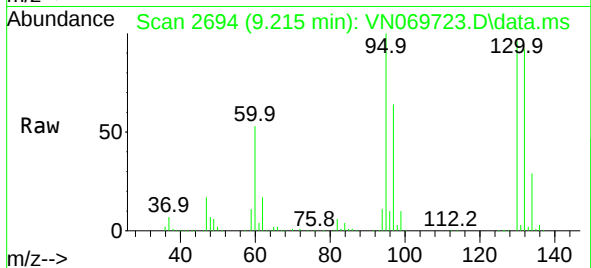
Tgt Ion: 117 Resp: 16756  
Ion Ratio Lower Upper  
117 100  
119 84.8 76.1 114.1  
121 34.7 24.2 36.2



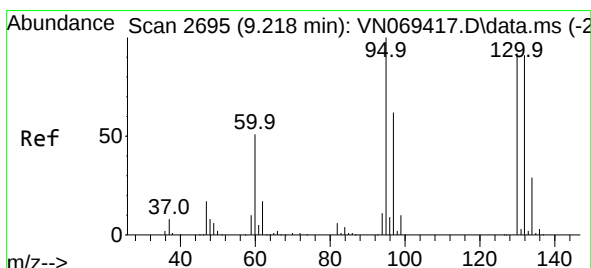
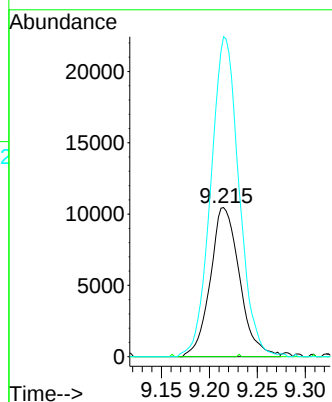
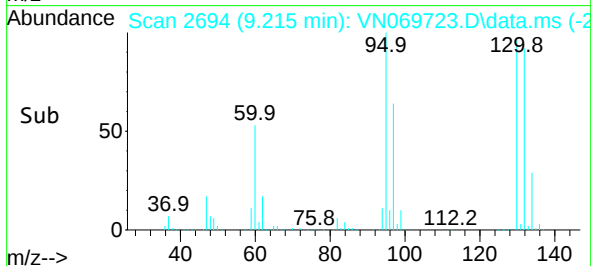


#39  
Methylcyclohexane  
Concen: 0.811 ug/l  
RT: 9.215 min Scan# 2694  
Delta R.T. -0.247 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

Instrument :  
MSVOA\_N  
ClientSampleId :

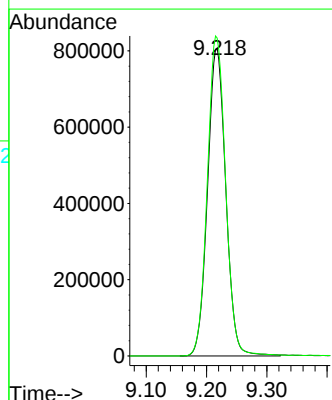
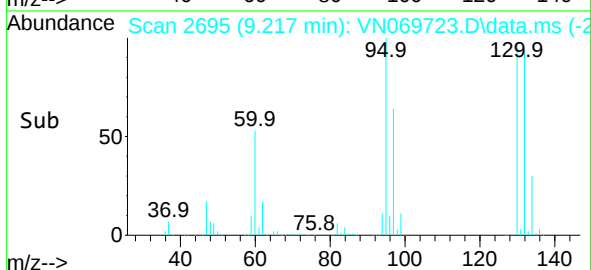
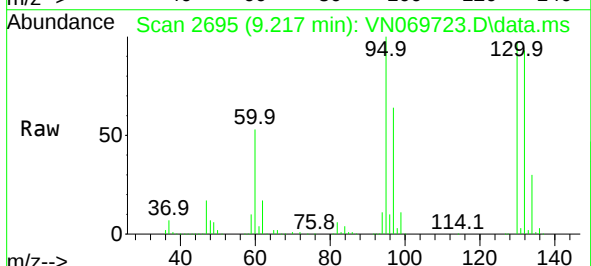


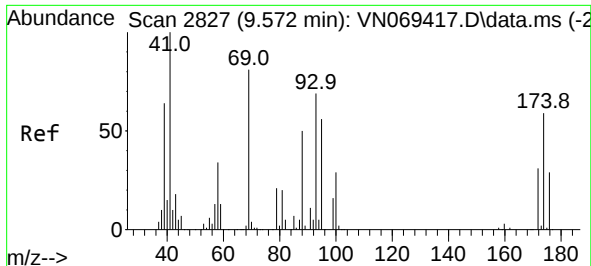
Tgt Ion: 83 Resp: 22237  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.1 87.1#  
98 212.6 38.4 57.6#



#44  
Trichloroethene  
Concen: 100.860 ug/l  
RT: 9.217 min Scan# 2695  
Delta R.T. 0.000 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

Tgt Ion:130 Resp: 1695602  
Ion Ratio Lower Upper  
130 100  
95 103.3 0.0 191.2





#49

1,4-Dioxane

Concen: 1.464 ug/l

RT: 9.566 min Scan# 21

Delta R.T. -0.005 min

Lab File: VN069723.D

Acq: 3 Dec 2021 17:20

Instrument :

MSVOA\_N

ClientSampleId :

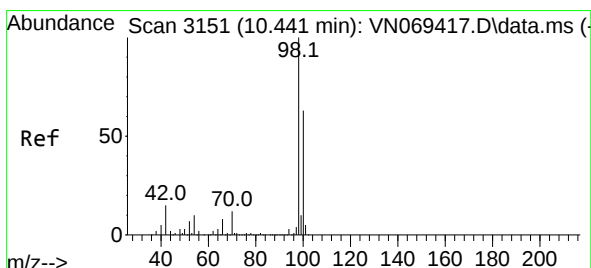
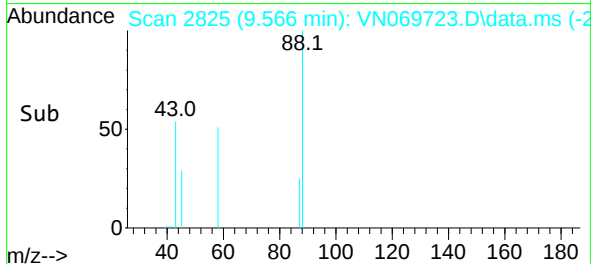
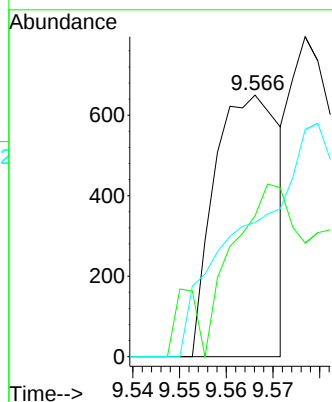
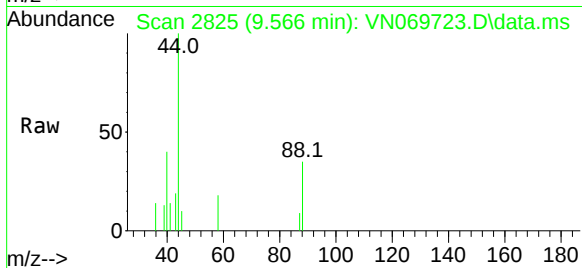
Tgt Ion: 88 Resp: 622

Ion Ratio Lower Upper

88 100

43 66.7 23.4 35.2#

58 0.0 50.6 75.8#



#50

Toluene-d8

Concen: 50.244 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN069723.D

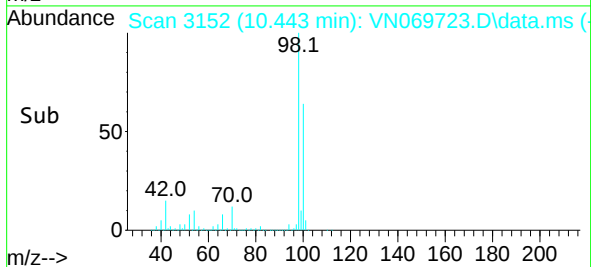
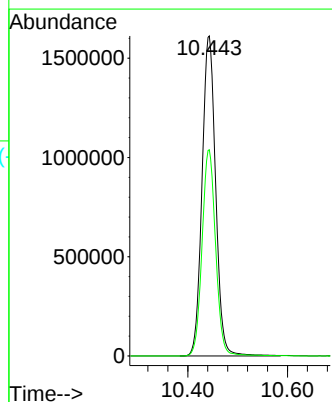
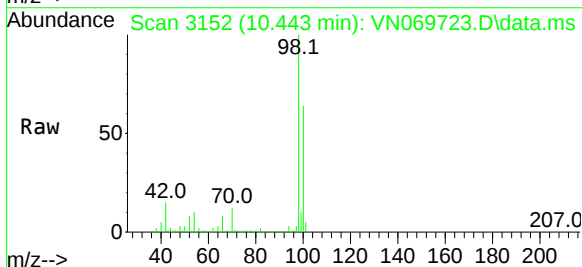
Acq: 3 Dec 2021 17:20

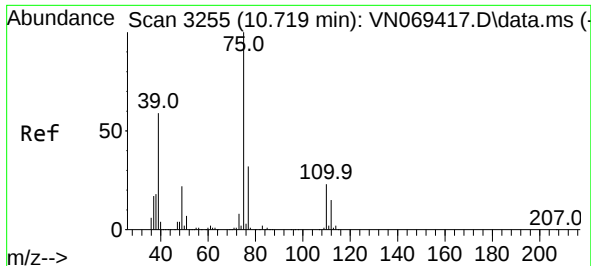
Tgt Ion: 98 Resp: 3058903

Ion Ratio Lower Upper

98 100

100 64.0 50.4 75.6





#53

t-1,3-Dichloropropene

Concen: 2.797 ug/l

RT: 10.711 min Scan# 3147

Delta R.T. -0.008 min

Lab File: VN069723.D

Acq: 3 Dec 2021 17:20

Instrument :

MSVOA\_N

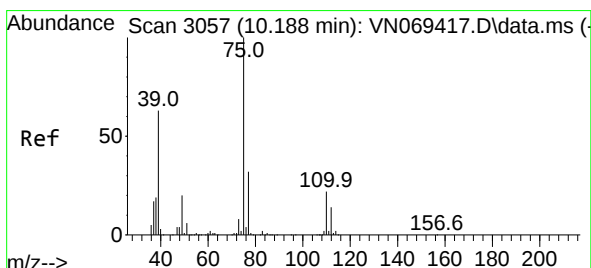
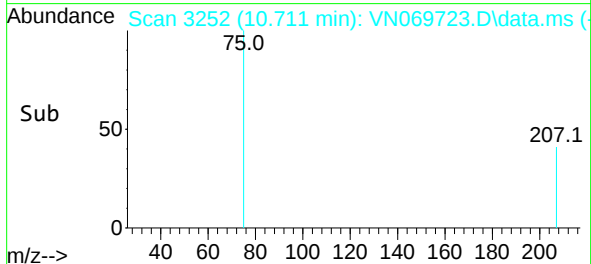
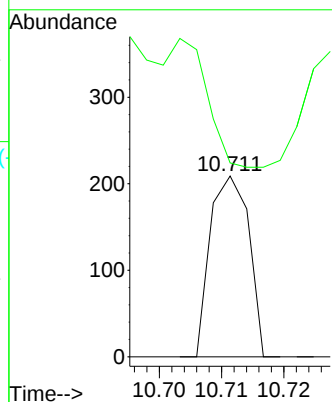
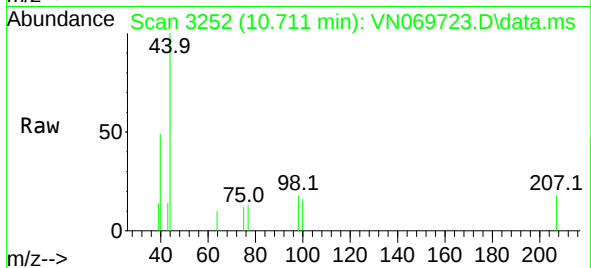
ClientSampleId :

Tgt Ion: 75 Resp: 90

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#



#54

cis-1,3-Dichloropropene

Concen: 2.008 ug/l

RT: 10.430 min Scan# 3147

Delta R.T. 0.239 min

Lab File: VN069723.D

Acq: 3 Dec 2021 17:20

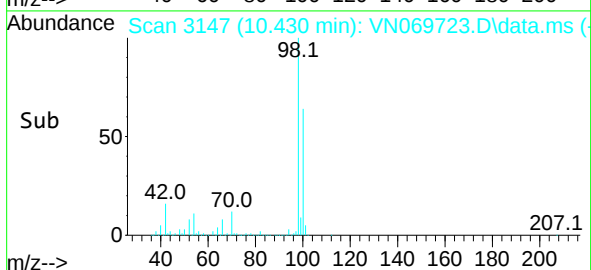
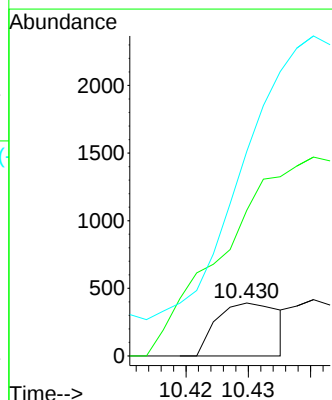
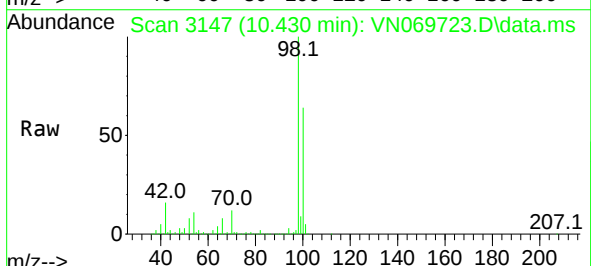
Tgt Ion: 75 Resp: 276

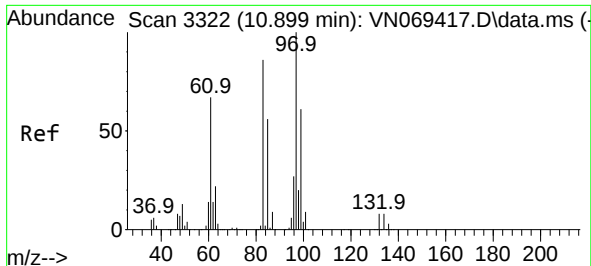
Ion Ratio Lower Upper

75 100

77 166.8 26.4 39.6#

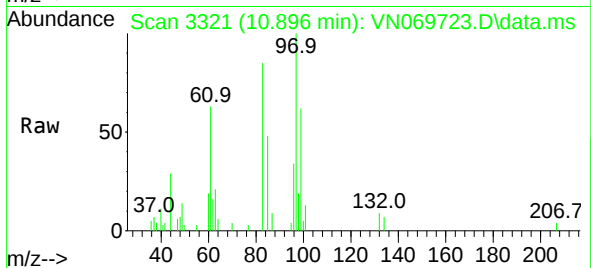
39 286.2 42.5 63.7#



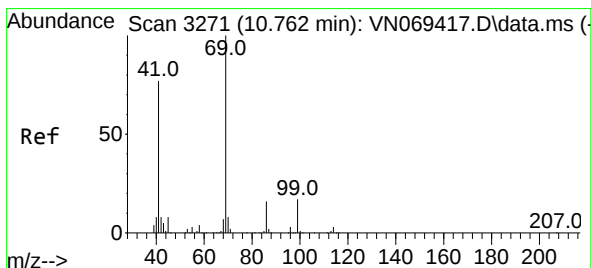
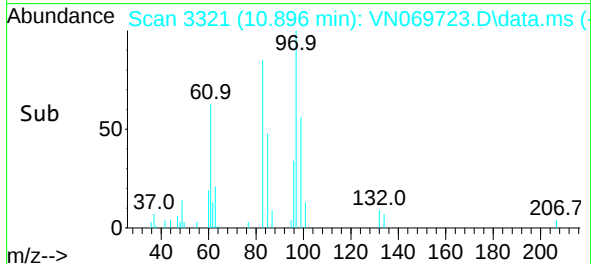
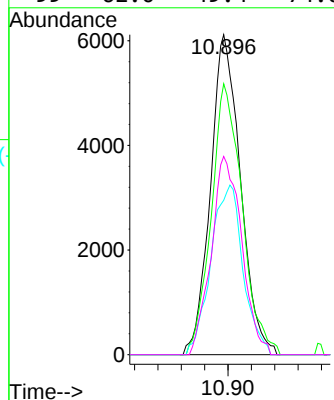


#55  
1,1,2-Trichloroethane  
Concen: 0.629 ug/l  
RT: 10.896 min Scan# 31  
Delta R.T. -0.002 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

Instrument :  
MSVOA\_N  
ClientSampleId :

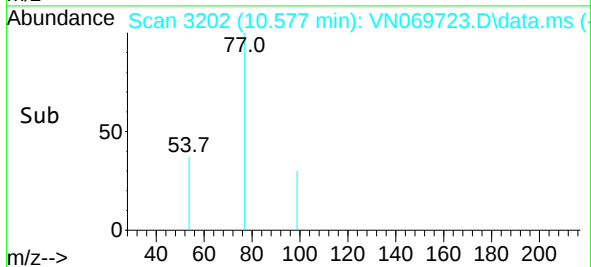
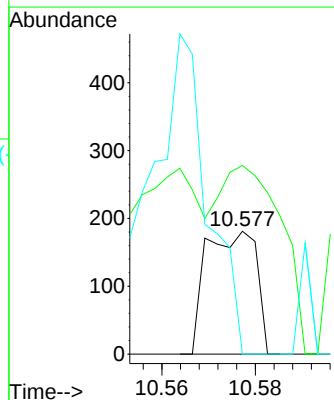
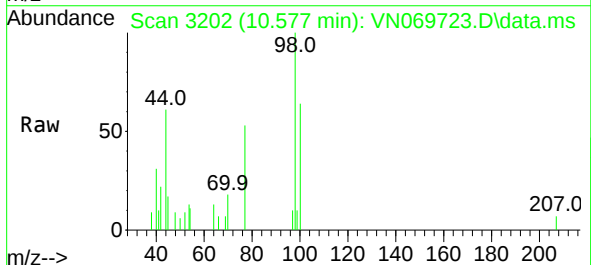


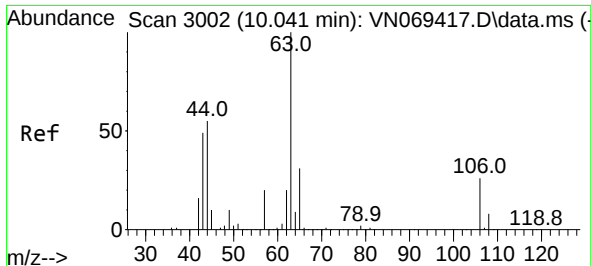
| Tgt Ion: | 97    | Resp: | 10911 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 84.6  | 67.8  | 101.6 |
| 85       | 48.2  | 45.4  | 68.2  |
| 99       | 62.0  | 49.4  | 74.0  |



#56  
Ethyl methacrylate  
Concen: 2.283 ug/l  
RT: 10.577 min Scan# 3202  
Delta R.T. -0.185 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

| Tgt Ion: | 69    | Resp: | 135   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 168.1 | 51.4  | 77.0# |
| 39       | 0.0   | 34.6  | 52.0# |

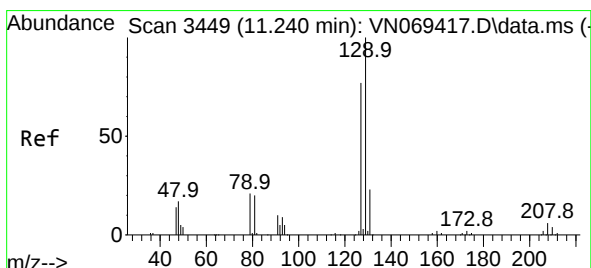
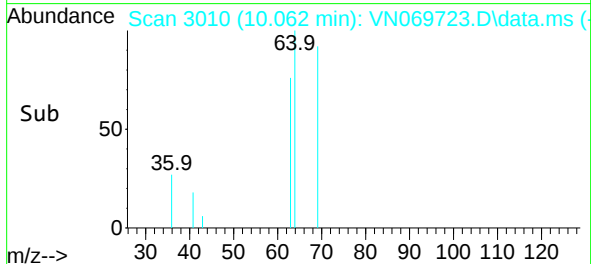
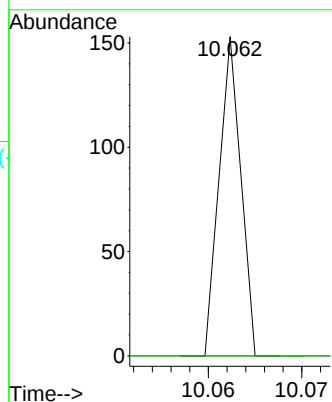
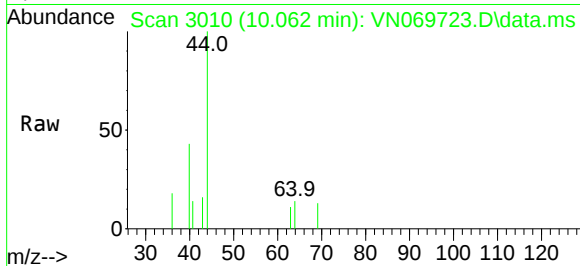




#58  
2-Chloroethyl Vinyl ether  
Concen: 18.391 ug/l  
RT: 10.062 min Scan# 3002  
Delta R.T. 0.019 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

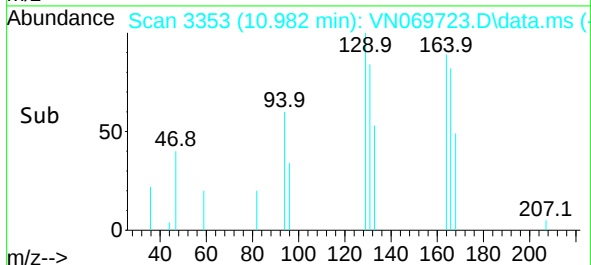
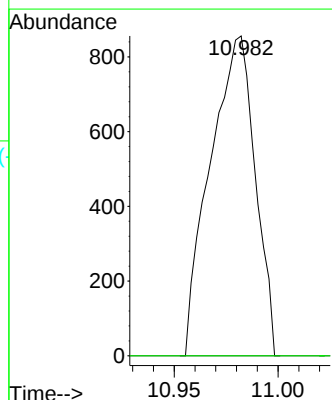
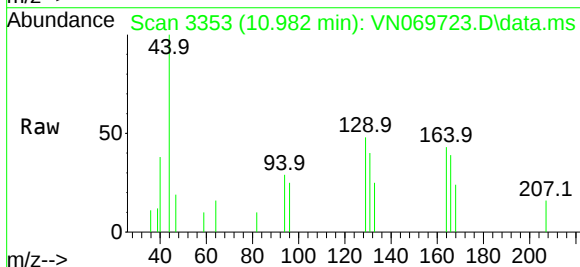
Instrument :  
MSVOA\_N  
ClientSampleId :

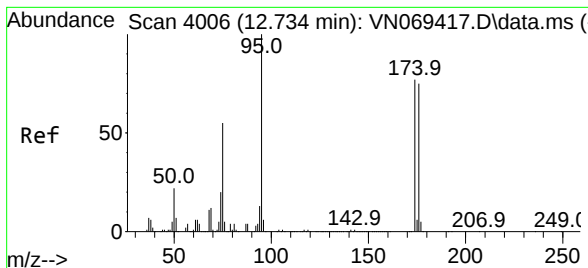
Tgt Ion: 63 Resp: 25  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.9 35.9#



#60  
Dibromochloromethane  
Concen: 2.442 ug/l  
RT: 10.982 min Scan# 3353  
Delta R.T. -0.258 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

Tgt Ion:129 Resp: 1286  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#





#62

4-Bromofluorobenzene

Concen: 51.821 ug/l

RT: 12.731 min Scan# 4006

Delta R.T. -0.000 min

Lab File: VN069723.D

Acq: 3 Dec 2021 17:20

Instrument :

MSVOA\_N

ClientSampleId :

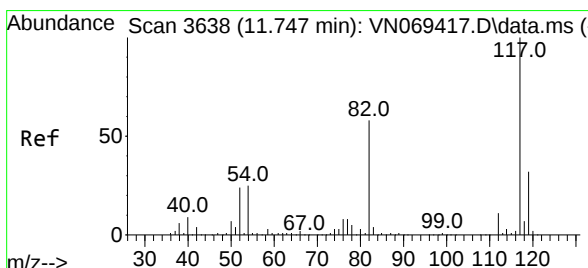
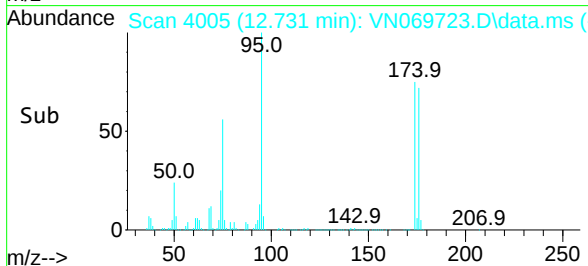
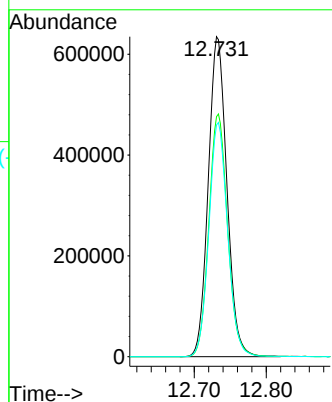
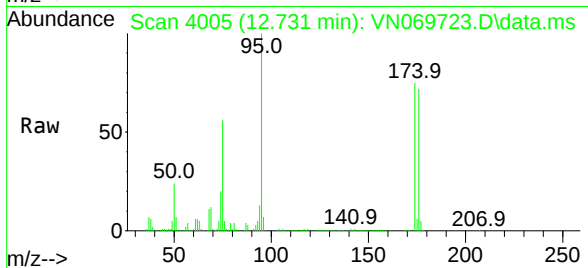
Tgt Ion: 95 Resp: 1142967

Ion Ratio Lower Upper

95 100

174 76.4 0.0 187.2

176 73.7 0.0 181.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.744 min Scan# 3637

Delta R.T. -0.002 min

Lab File: VN069723.D

Acq: 3 Dec 2021 17:20

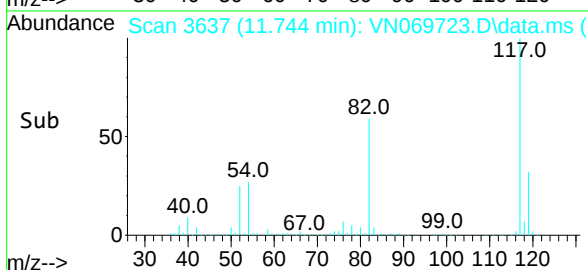
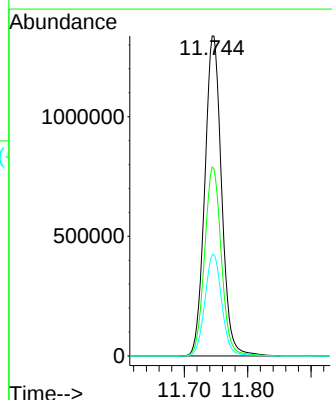
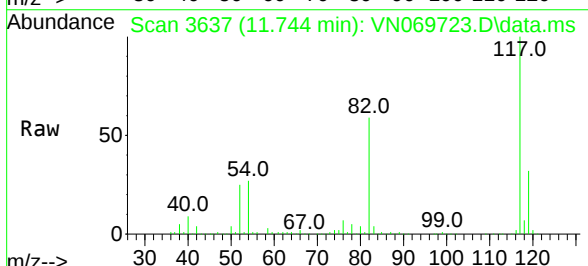
Tgt Ion: 117 Resp: 2461013

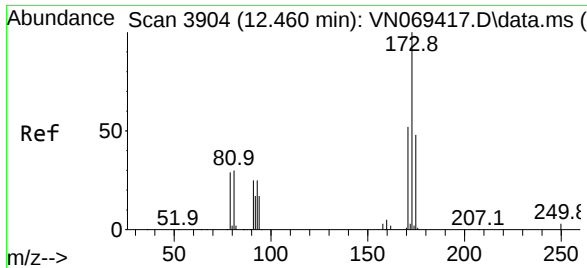
Ion Ratio Lower Upper

117 100

82 59.1 42.4 63.6

119 31.6 25.4 38.2

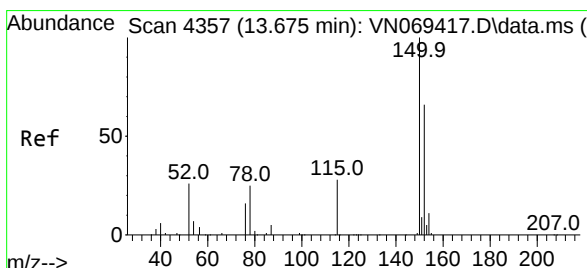
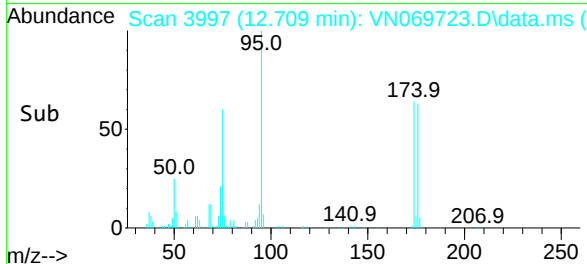
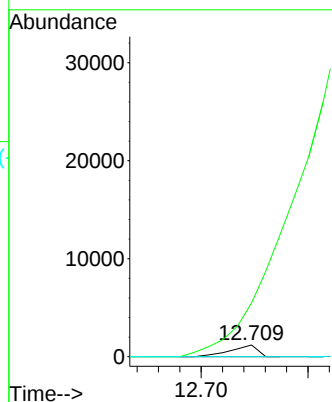
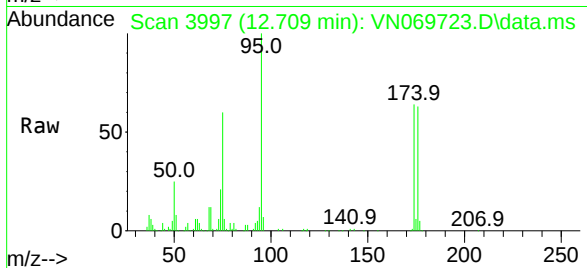




#71  
Bromoform  
Concen: 2.757 ug/l  
RT: 12.709 min Scan# 3904  
Delta R.T. 0.249 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

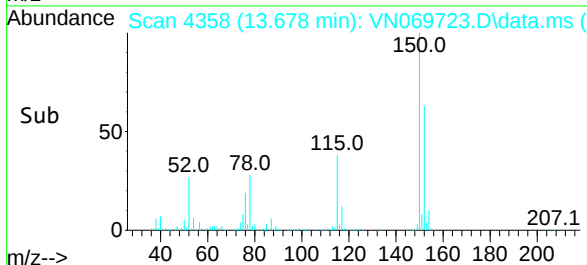
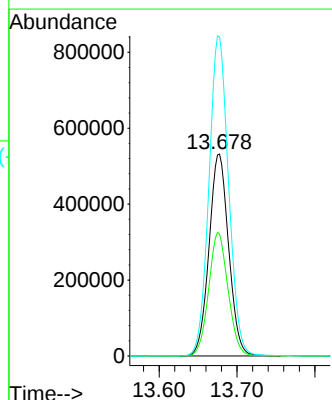
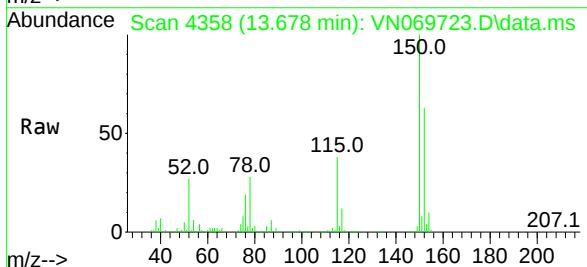
Instrument :  
MSVOA\_N  
ClientSampleId :

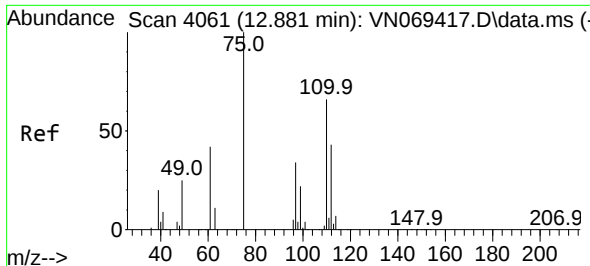
Tgt Ion:173 Resp: 412  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.2 72.6#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. 0.000 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

Tgt Ion:152 Resp: 929591  
Ion Ratio Lower Upper  
152 100  
115 60.6 27.5 82.5  
150 158.6 0.0 344.4

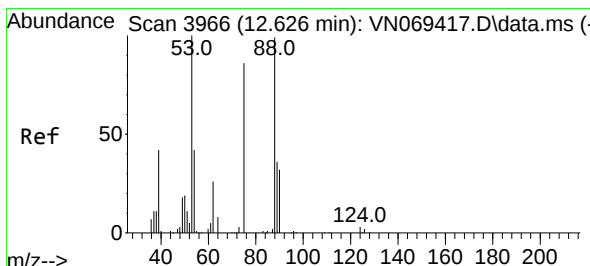
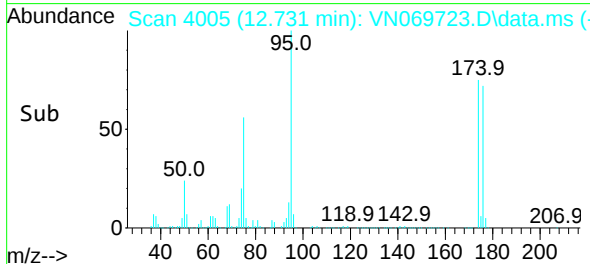
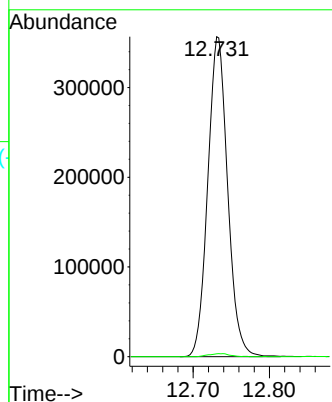
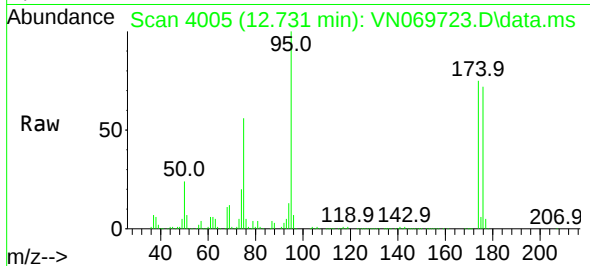




#76  
1,2,3-Trichloropropane  
Concen: 24.135 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.150 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

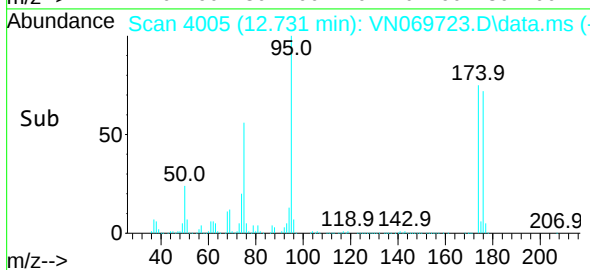
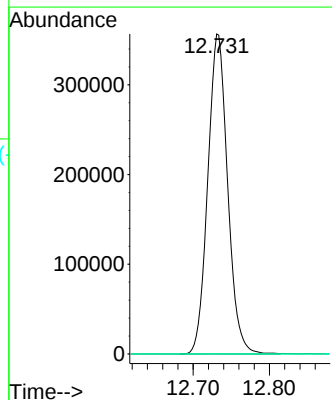
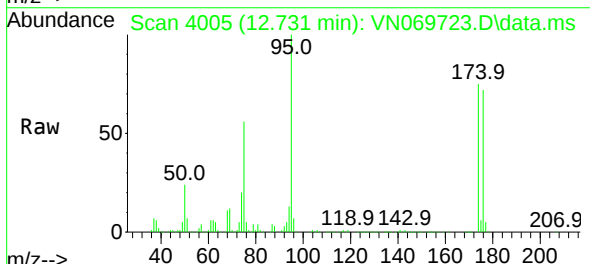
Instrument :  
MSVOA\_N  
ClientSampleId :

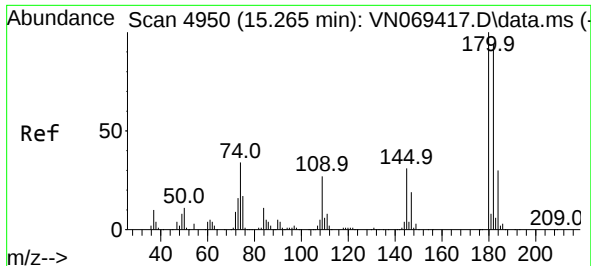
Tgt Ion: 75 Resp: 643395  
Ion Ratio Lower Upper  
75 100  
77 1.0 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.635 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. 0.105 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

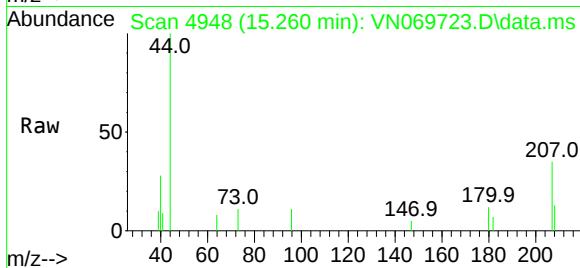
Tgt Ion: 75 Resp: 643395  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#



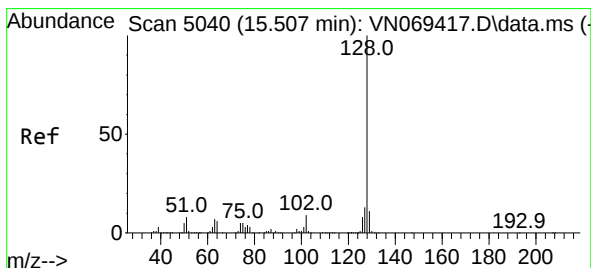
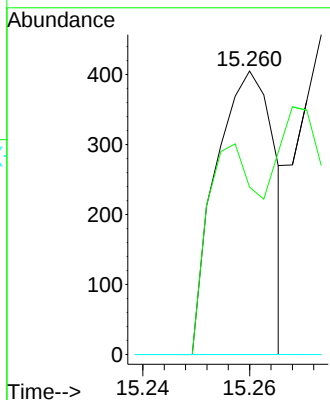
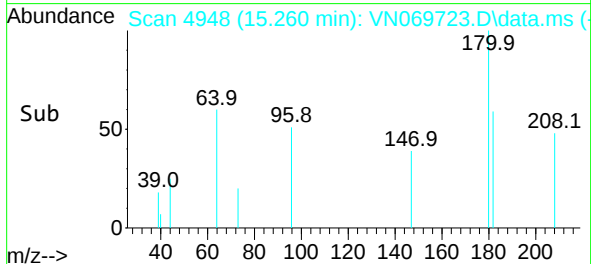


#93  
1,2,4-Trichlorobenzene  
Concen: 2.897 ug/l  
RT: 15.260 min Scan# 4950  
Delta R.T. -0.005 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20

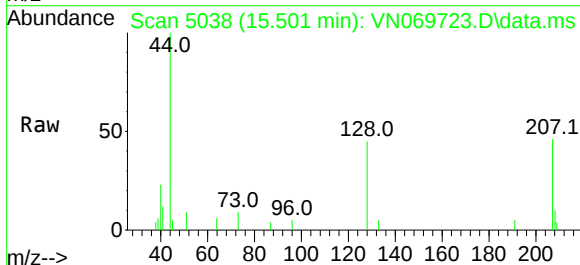
Instrument :  
MSVOA\_N  
ClientSampleId :



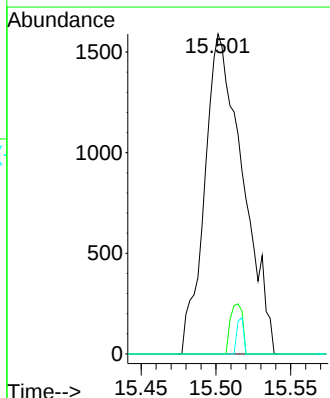
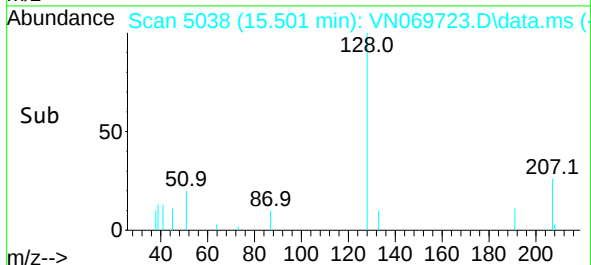
Tgt Ion:180 Resp: 310  
Ion Ratio Lower Upper  
180 100  
182 65.5 48.3 144.9  
145 0.0 14.5 43.5#

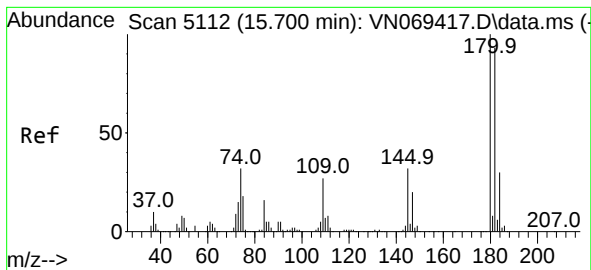


#95  
Naphthalene  
Concen: 4.042 ug/l  
RT: 15.501 min Scan# 5038  
Delta R.T. -0.006 min  
Lab File: VN069723.D  
Acq: 3 Dec 2021 17:20



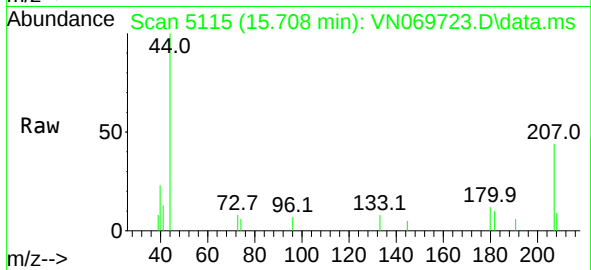
Tgt Ion:128 Resp: 2820  
Ion Ratio Lower Upper  
128 100  
127 5.0 10.5 15.7#  
129 2.0 8.7 13.1#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.457 ug/l  
 RT: 15.708 min Scan# 51  
 Delta R.T. 0.006 min  
 Lab File: VN069723.D  
 Acq: 3 Dec 2021 17:20

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion:180 Resp: 329  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 47.4 142.2#  
 145 0.0 15.0 45.1#

