

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120421\  
 Data File : VN069770.D  
 Acq On : 4 Dec 2021 17:13  
 Operator : JC/MD  
 Sample : M4922-11  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 06 00:17:45 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

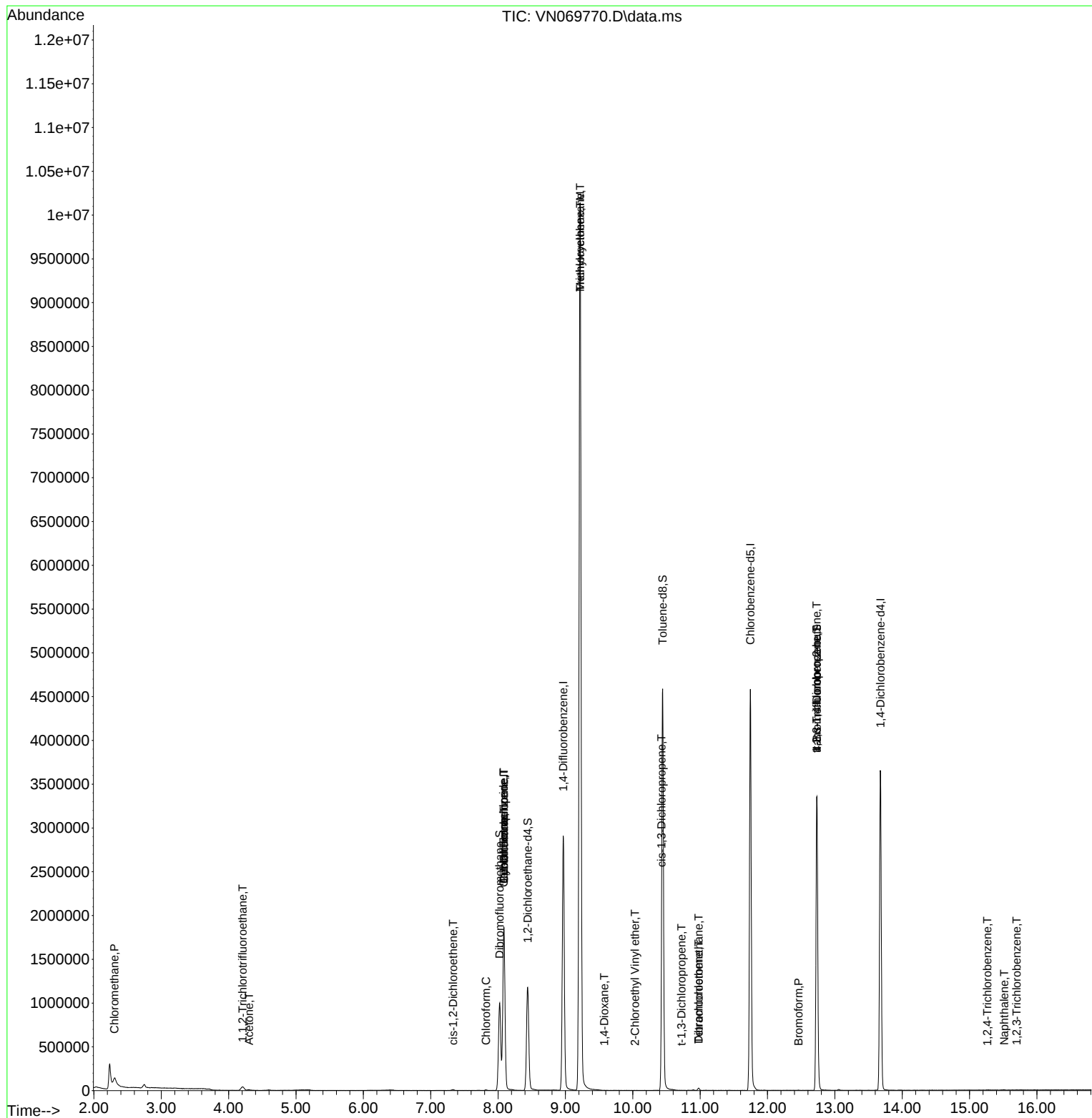
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.088  | 168   | 1378337  | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968  | 114   | 2439590  | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.747 | 117   | 2536684  | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678 | 152   | 976760   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440  | 65    | 1042268  | 48.975   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | =      | 97.960%  |
| 35) Dibromofluoromethane      | 8.024  | 113   | 727591   | 47.614   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | =      | 95.220%  |
| 50) Toluene-d8                | 10.443 | 98    | 3123489  | 50.906   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | =      | 101.820% |
| 62) 4-Bromofluorobenzene      | 12.733 | 95    | 1184165  | 53.271   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | =      | 106.540% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.303  | 50    | 5538     | 0.275    | ug/l # | 73       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.208  | 101   | 26138    | 1.918    | ug/l   | 93       |
| 16) Acetone                   | 4.301  | 43    | 12865    | 1.005    | ug/l   | 90       |
| 27) cis-1,2-Dichloroethene    | 7.332  | 96    | 4689     | 0.272    | ug/l   | 82       |
| 30) Chloroform                | 7.820  | 83    | 6961     | 0.230    | ug/l   | 85       |
| 31) Cyclohexane               | 8.088  | 56    | 36190    | 1.222    | ug/l # | 42       |
| 36) 1,1-Dichloropropene       | 8.086  | 75    | 116037   | 4.996    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.083  | 117   | 142016   | 6.236    | ug/l # | 16       |
| 39) Methylcyclohexane         | 9.217  | 83    | 46579    | 1.686    | ug/l # | 1        |
| 44) Trichloroethene           | 9.217  | 130   | 3575629  | 211.037  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.577  | 88    | 173      | 0.404    | ug/l # | 1        |
| 53) t-1,3-Dichloropropene     | 10.725 | 75    | 26       | 2.795    | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.427 | 75    | 77       | 2.001    | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether | 10.033 | 63    | 27       | 18.392   | ug/l # | 45       |
| 60) Dibromochloromethane      | 10.977 | 129   | 5814     | 2.672    | ug/l # | 11       |
| 64) Tetrachloroethene         | 10.980 | 164   | 5607     | 0.326    | ug/l # | 86       |
| 71) Bromoform                 | 12.463 | 173   | 816      | 2.781    | ug/l # | 29       |
| 76) 1,2,3-Trichloropropane    | 12.731 | 75    | 665481   | 23.758   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.731 | 75    | 665481   | 75.502   | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180   | 880      | 2.930    | ug/l   | 57       |
| 95) Naphthalene               | 15.515 | 128   | 3149     | 4.046    | ug/l # | 89       |
| 96) 1,2,3-Trichlorobenzene    | 15.700 | 180   | 564      | 2.470    | ug/l # | 31       |

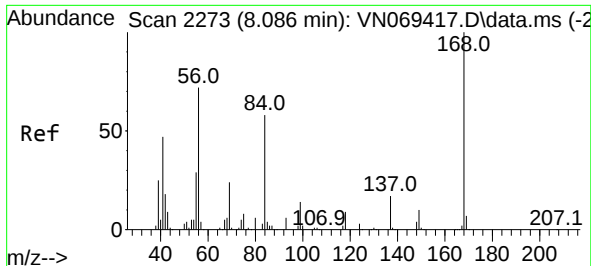
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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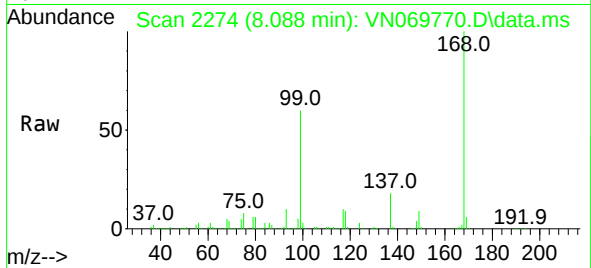
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QLast Update : Fri Dec 03 08:46:47 2021  
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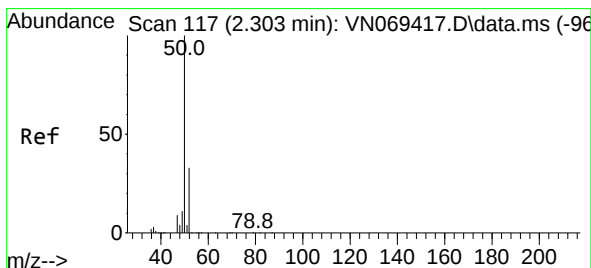
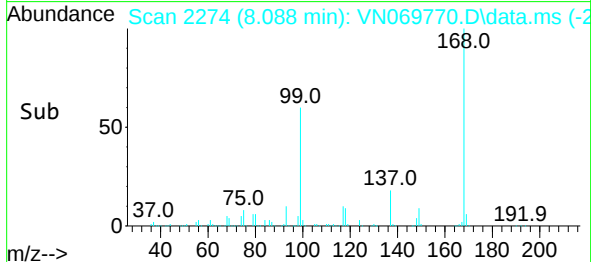
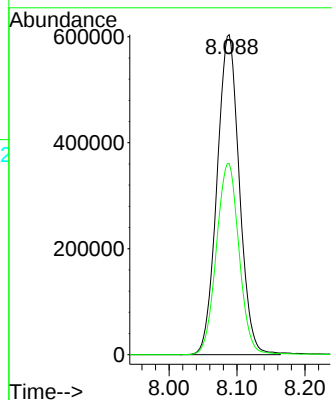


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Instrument :  
MSVOA\_N  
ClientSampleId :

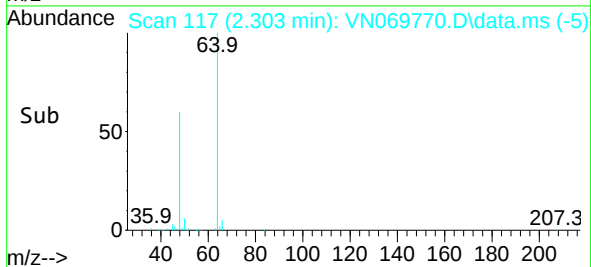
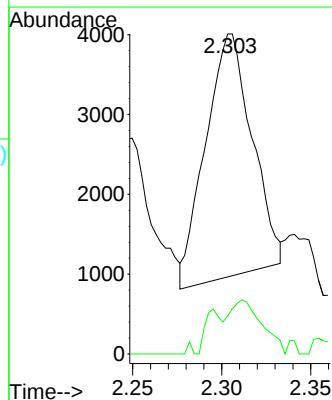
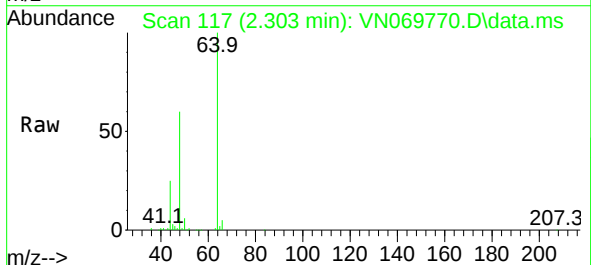


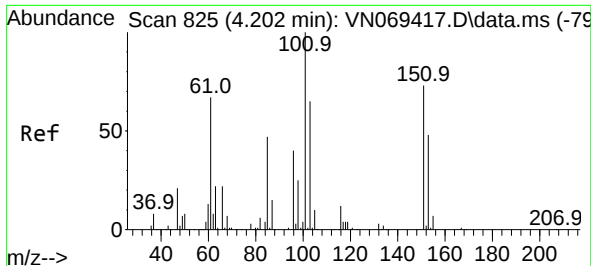
Tgt Ion:168 Resp: 1378337  
Ion Ratio Lower Upper  
168 100  
99 59.8 41.3 61.9



#3  
Chloromethane  
Concen: 0.275 ug/l  
RT: 2.303 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

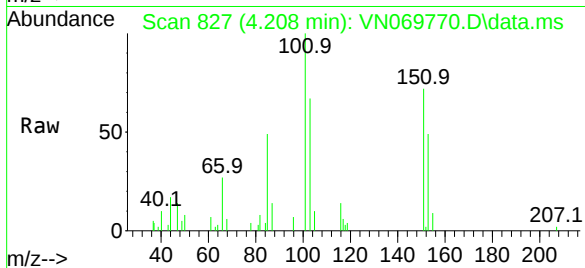
Tgt Ion: 50 Resp: 5538  
Ion Ratio Lower Upper  
50 100  
52 16.5 25.4 38.0#



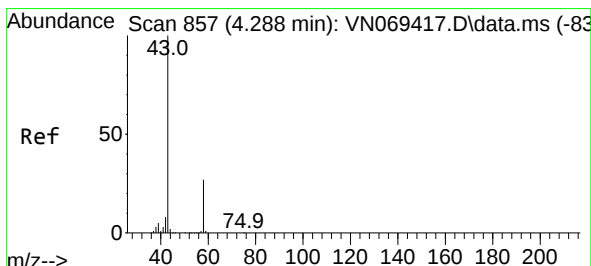
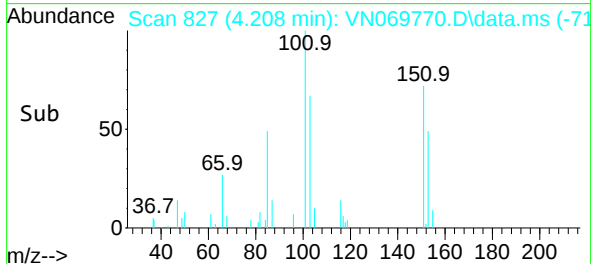
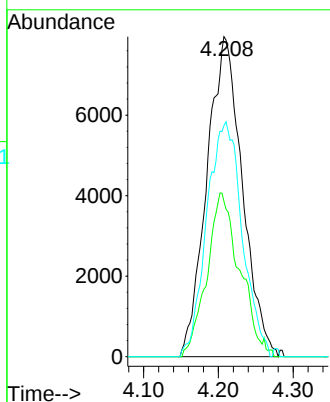


#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.918 ug/l  
RT: 4.208 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Instrument :  
MSVOA\_N  
ClientSampleId :

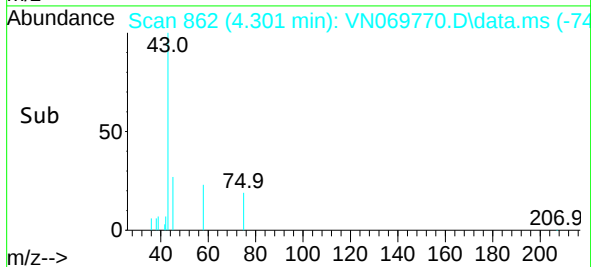
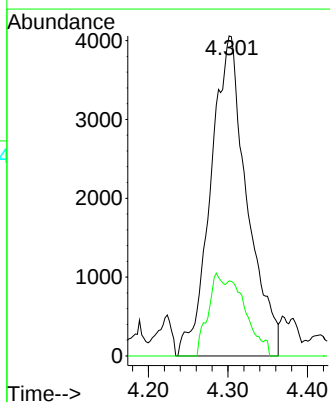
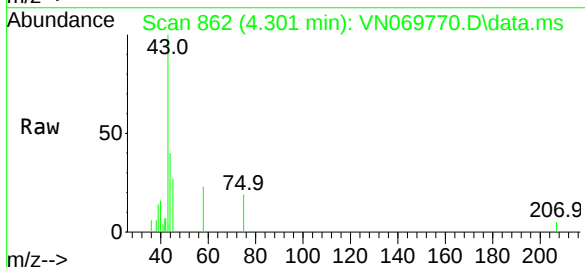


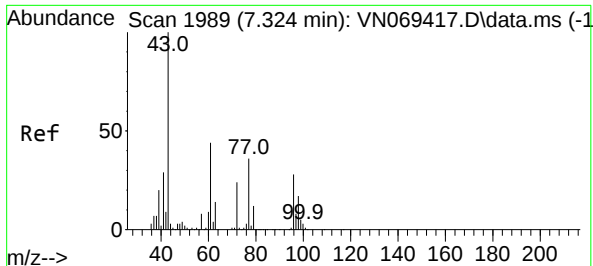
Tgt Ion:101 Resp: 26138  
Ion Ratio Lower Upper  
101 100  
85 47.5 37.2 55.8  
151 73.6 65.9 98.9



#16  
Acetone  
Concen: 1.005 ug/l  
RT: 4.301 min Scan# 862  
Delta R.T. 0.011 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Tgt Ion: 43 Resp: 12865  
Ion Ratio Lower Upper  
43 100  
58 23.5 23.1 34.7





#27

cis-1,2-Dichloroethene

Concen: 0.272 ug/l

RT: 7.332 min Scan# 1989

Delta R.T. 0.006 min

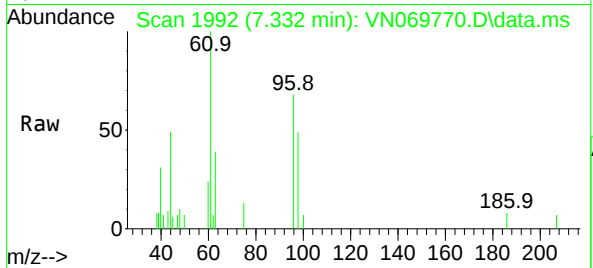
Lab File: VN069770.D

Acq: 4 Dec 2021 17:13

Instrument :

MSVOA\_N

ClientSampleId :



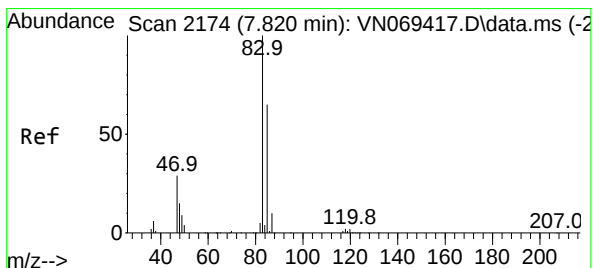
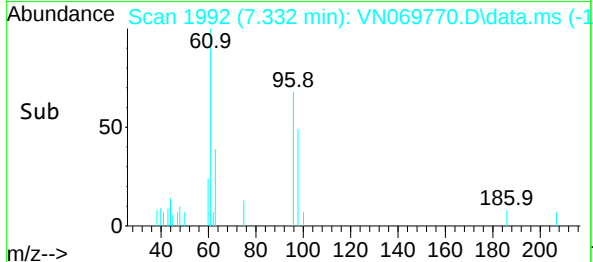
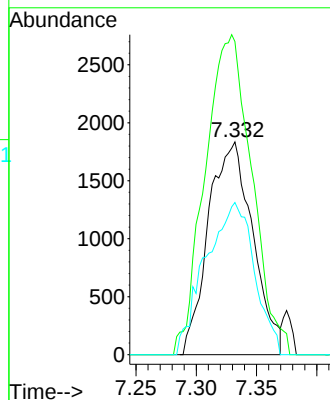
Tgt Ion: 96 Resp: 4689

Ion Ratio Lower Upper

96 100

61 158.5 0.0 275.0

98 78.7 0.0 129.6



#30

Chloroform

Concen: 0.230 ug/l

RT: 7.820 min Scan# 2174

Delta R.T. 0.000 min

Lab File: VN069770.D

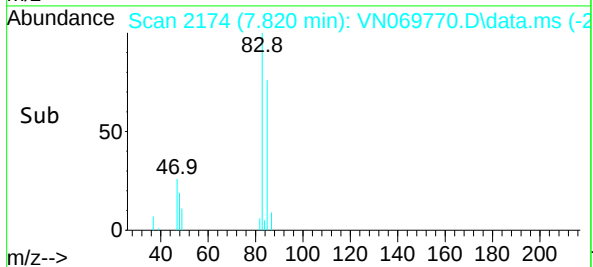
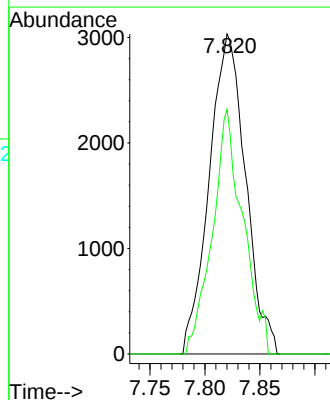
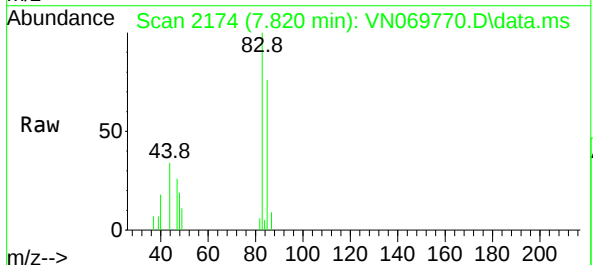
Acq: 4 Dec 2021 17:13

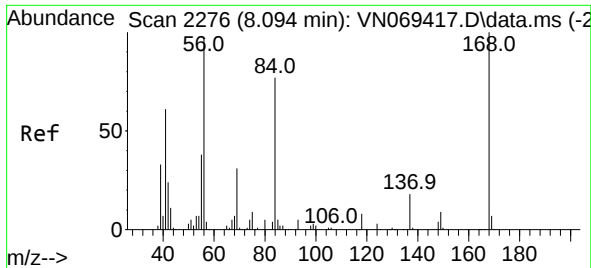
Tgt Ion: 83 Resp: 6961

Ion Ratio Lower Upper

83 100

85 76.4 51.9 77.9

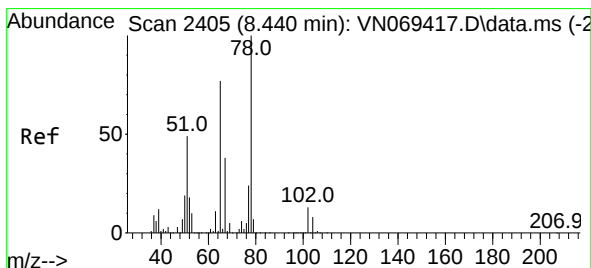
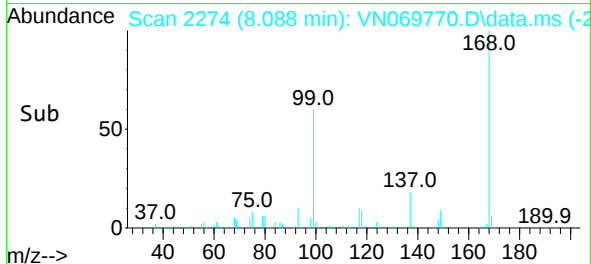
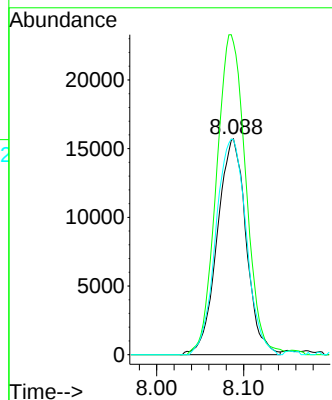
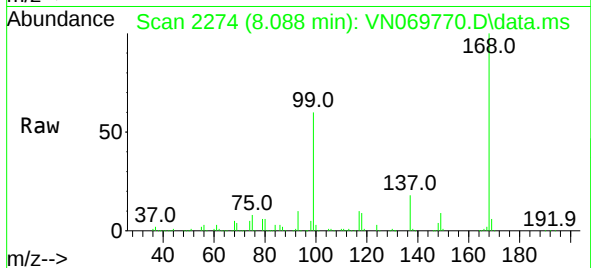




#31  
Cyclohexane  
Concen: 1.222 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

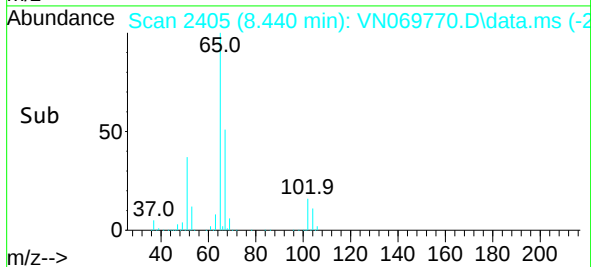
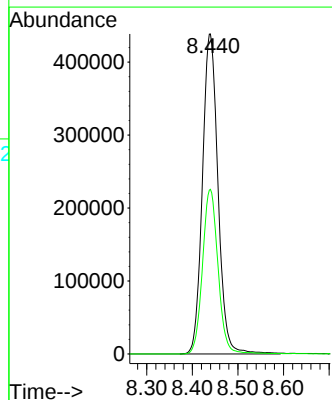
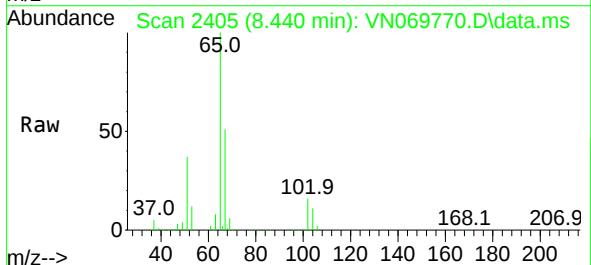
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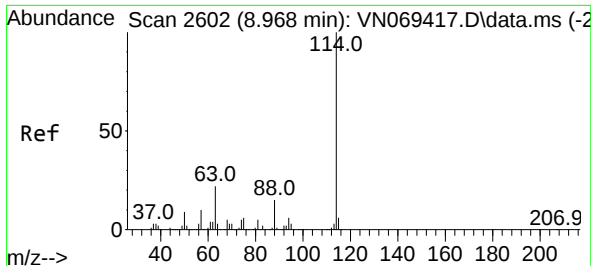
Tgt Ion: 56 Resp: 36190  
Ion Ratio Lower Upper  
56 100  
69 144.6 27.1 40.7#  
84 99.6 73.4 110.0



#33  
1,2-Dichloroethane-d4  
Concen: 48.975 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. 0.003 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

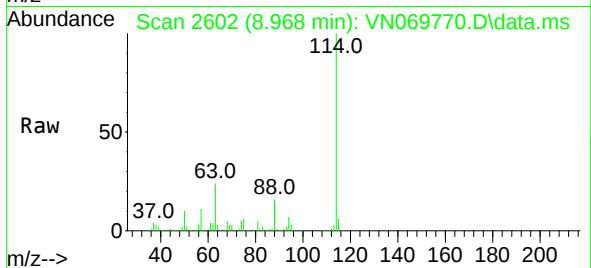
Tgt Ion: 65 Resp: 1042268  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 103.0





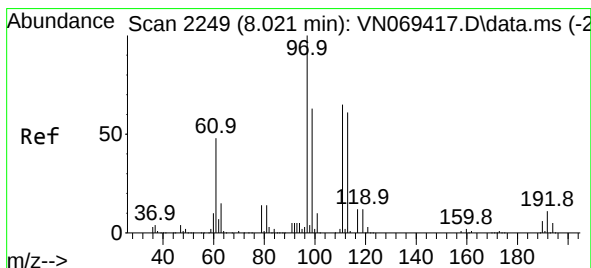
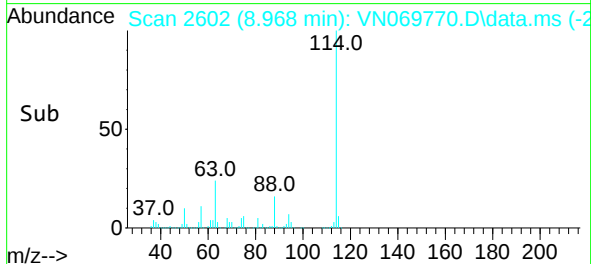
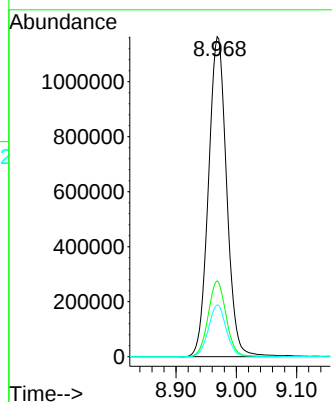
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1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.968 min Scan# 210  
Delta R.T. 0.000 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:114 Resp: 2439590

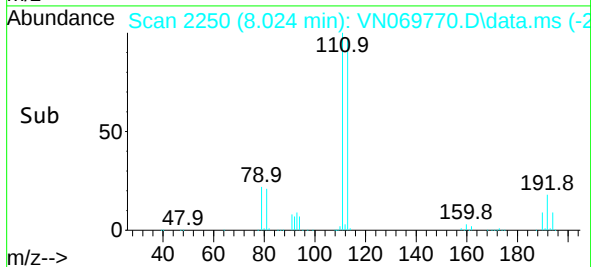
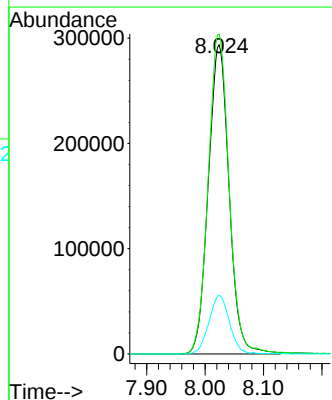
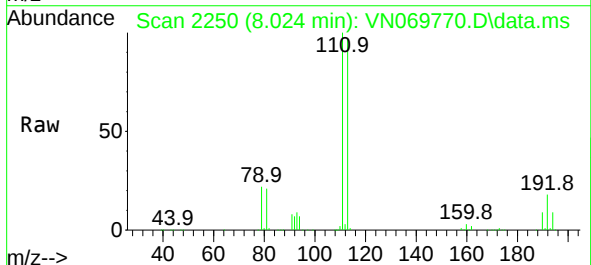
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 23.7  | 0.0   | 37.8  |
| 88  | 16.2  | 0.0   | 27.4  |

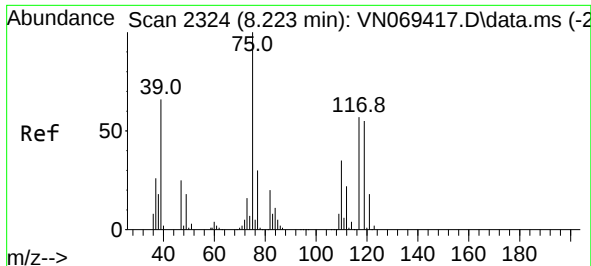


#35  
Dibromofluoromethane  
Concen: 47.614 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.000 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Tgt Ion:113 Resp: 727591

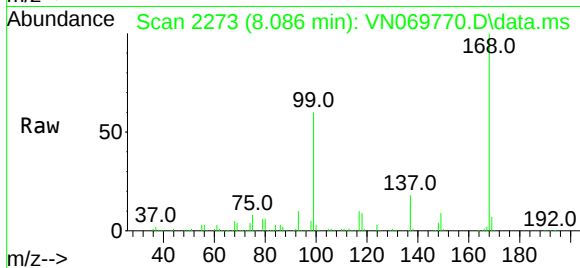
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 102.5 | 82.2  | 123.2 |
| 192 | 18.6  | 16.9  | 25.3  |



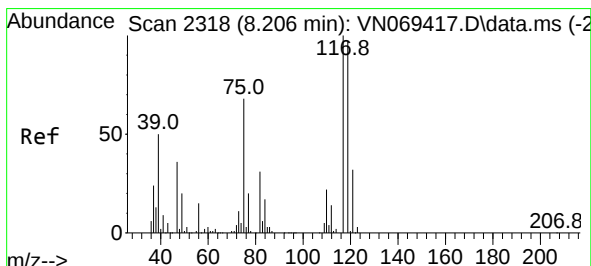
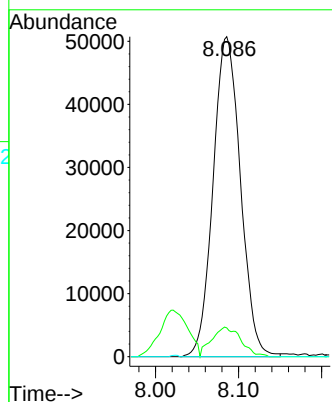
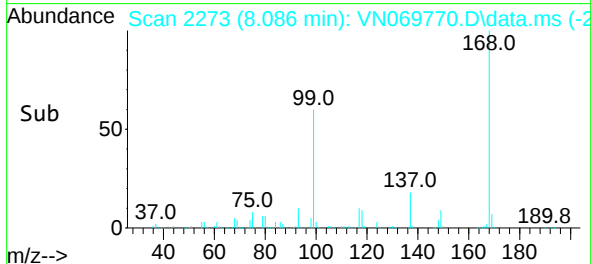


#36  
 1,1-Dichloropropene  
 Concen: 4.996 ug/l  
 RT: 8.086 min Scan# 21  
 Delta R.T. -0.137 min  
 Lab File: VN069770.D  
 Acq: 4 Dec 2021 17:13

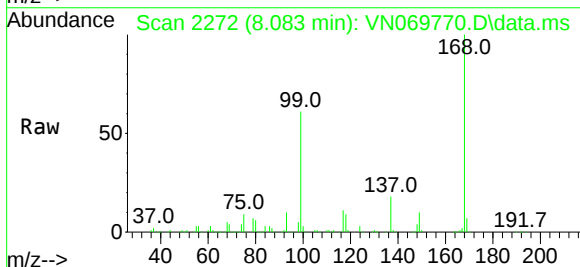
Instrument :  
 MSVOA\_N  
 ClientSampleId :



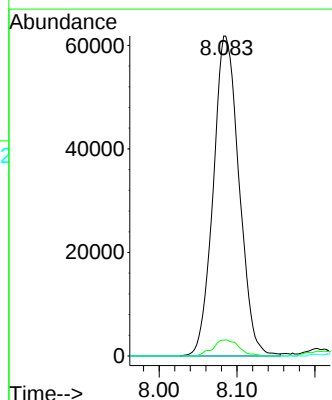
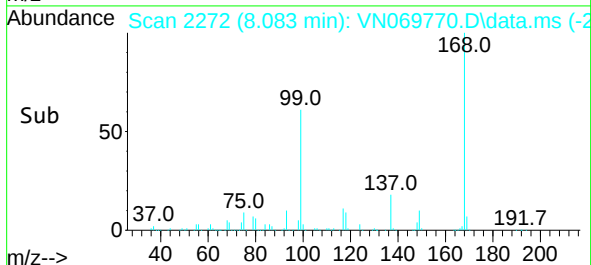
Tgt Ion: 75 Resp: 116037  
 Ion Ratio Lower Upper  
 75 100  
 110 9.9 18.4 55.2#  
 77 0.0 24.4 36.6#

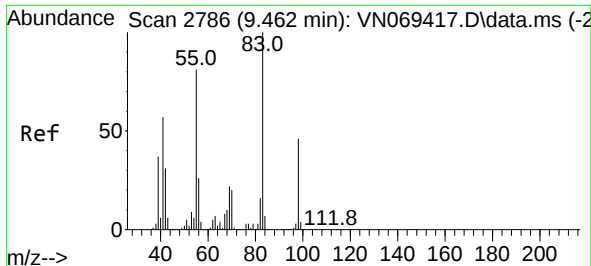


#38  
 Carbon Tetrachloride  
 Concen: 6.236 ug/l  
 RT: 8.083 min Scan# 2272  
 Delta R.T. -0.123 min  
 Lab File: VN069770.D  
 Acq: 4 Dec 2021 17:13



Tgt Ion: 117 Resp: 142016  
 Ion Ratio Lower Upper  
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 119 4.9 76.1 114.1#  
 121 0.0 24.2 36.2#

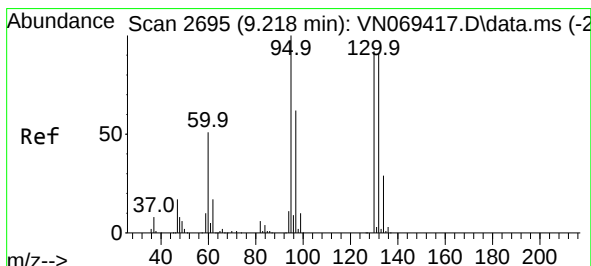
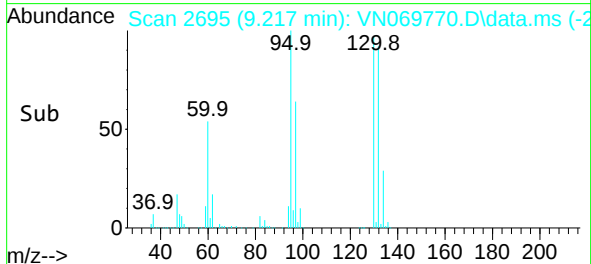
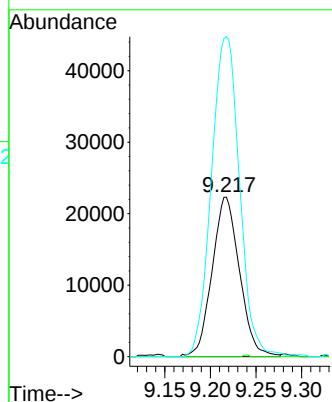
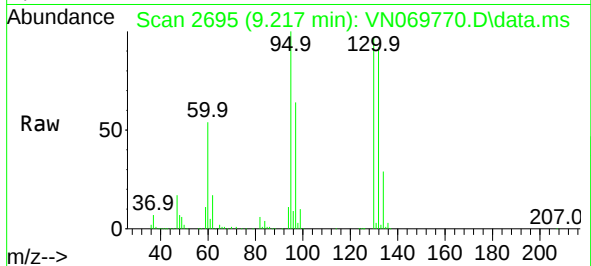




#39  
Methylcyclohexane  
Concen: 1.686 ug/l  
RT: 9.217 min Scan# 2695  
Delta R.T. -0.244 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

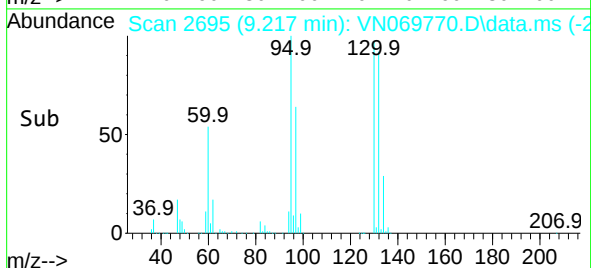
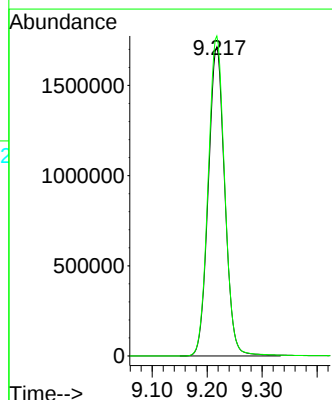
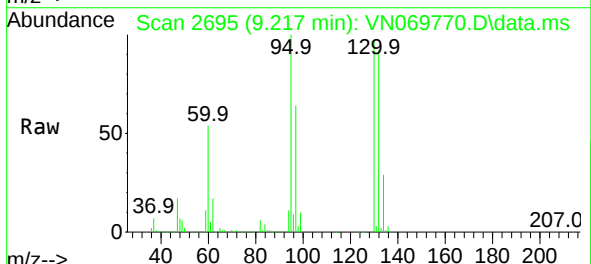
Instrument :  
MSVOA\_N  
ClientSampleId :

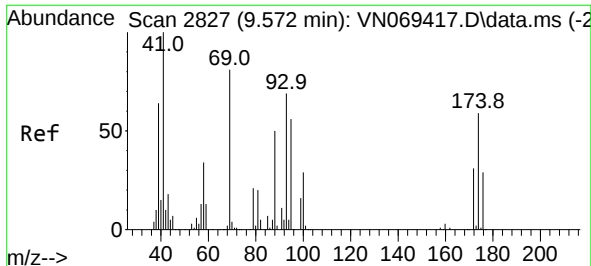
Tgt Ion: 83 Resp: 46579  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.1 87.1#  
98 200.6 38.4 57.6#



#44  
Trichloroethene  
Concen: 211.037 ug/l  
RT: 9.217 min Scan# 2695  
Delta R.T. 0.000 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Tgt Ion:130 Resp: 3575629  
Ion Ratio Lower Upper  
130 100  
95 103.6 0.0 191.2





#49

1,4-Dioxane

Concen: 0.404 ug/l

RT: 9.577 min Scan# 21

Delta R.T. 0.005 min

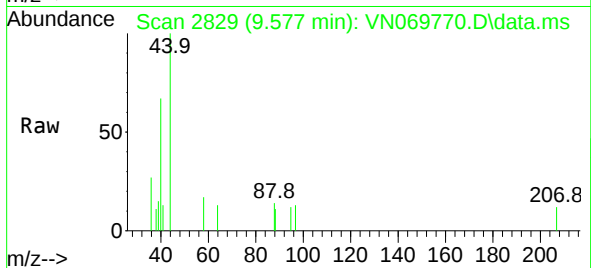
Lab File: VN069770.D

Acq: 4 Dec 2021 17:13

Instrument :

MSVOA\_N

ClientSampleId :



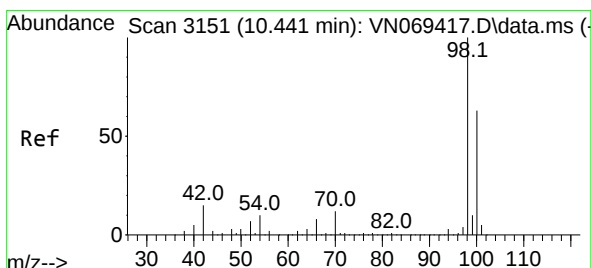
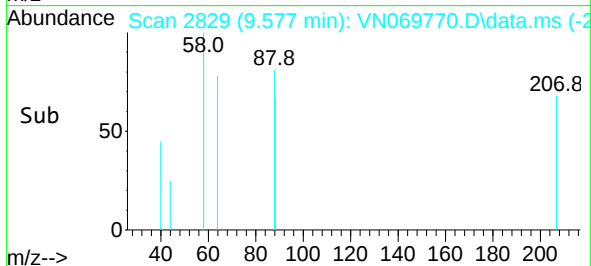
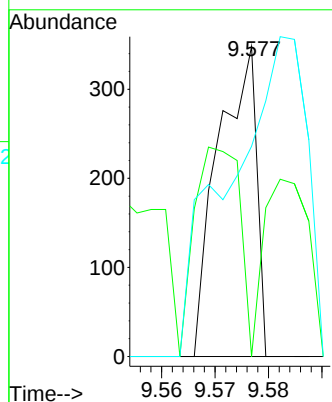
Tgt Ion: 88 Resp: 173

Ion Ratio Lower Upper

88 100

43 66.5 23.4 35.2#

58 207.5 50.6 75.8#



#50

Toluene-d8

Concen: 50.906 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN069770.D

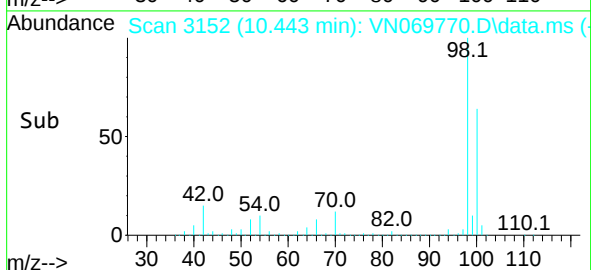
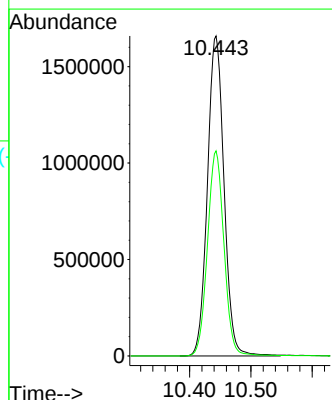
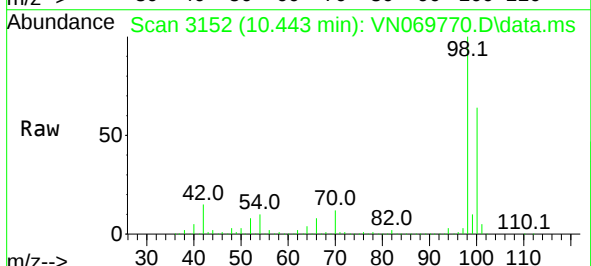
Acq: 4 Dec 2021 17:13

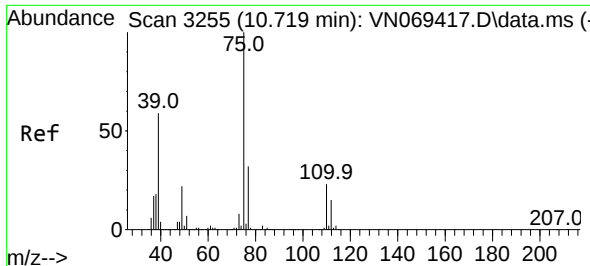
Tgt Ion: 98 Resp: 3123489

Ion Ratio Lower Upper

98 100

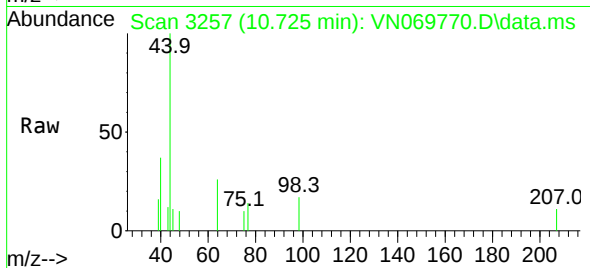
100 63.8 50.4 75.6



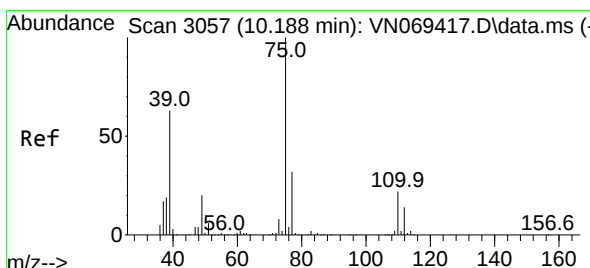
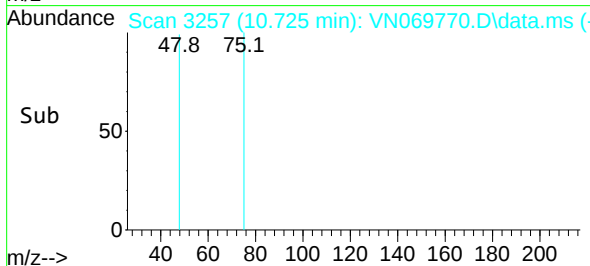
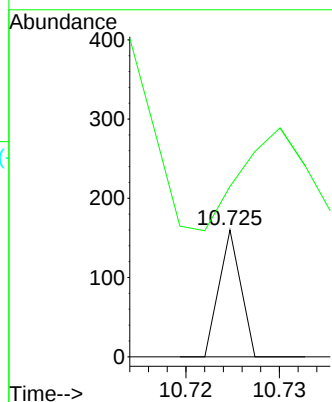


#53  
t-1,3-Dichloropropene  
Concen: 2.795 ug/l  
RT: 10.725 min Scan# 3146  
Delta R.T. 0.006 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Instrument :  
MSVOA\_N  
ClientSampleId :

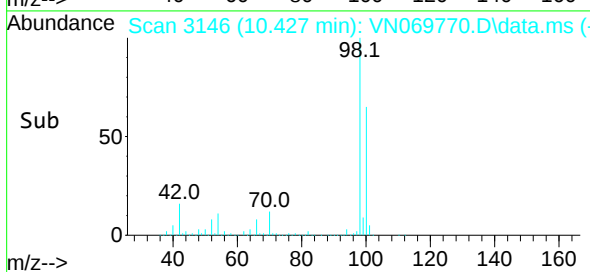
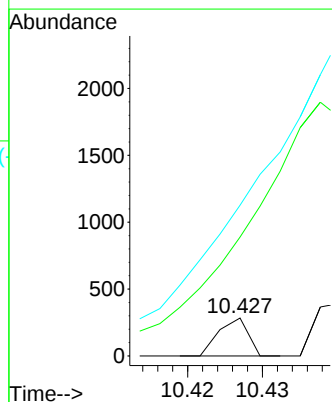
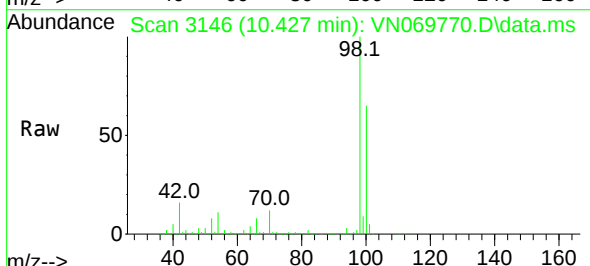


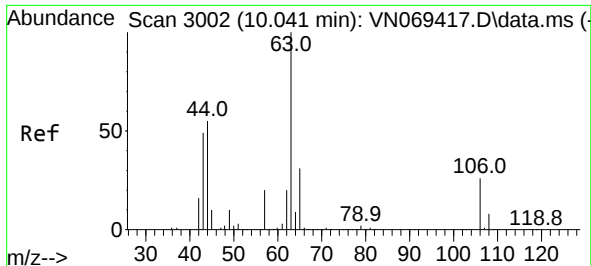
Tgt Ion: 75 Resp: 26  
Ion Ratio Lower Upper  
75 100  
77 31.3 25.6 38.4



#54  
cis-1,3-Dichloropropene  
Concen: 2.001 ug/l  
RT: 10.427 min Scan# 3146  
Delta R.T. 0.236 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Tgt Ion: 75 Resp: 77  
Ion Ratio Lower Upper  
75 100  
77 185.5 26.4 39.6#  
39 211.3 42.5 63.7#

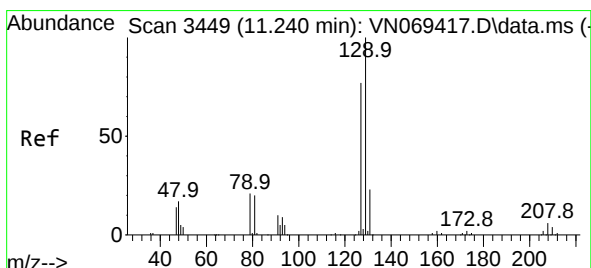
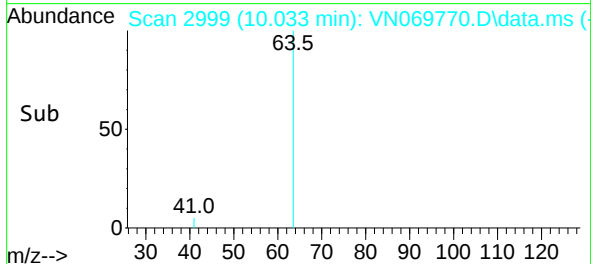
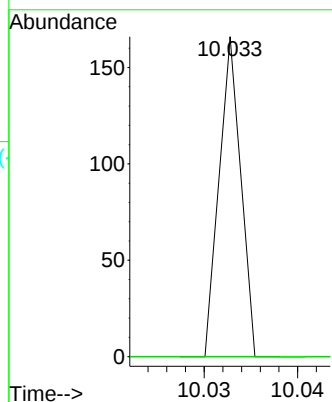
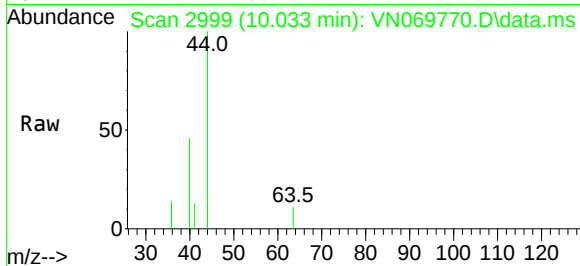




#58  
2-Chloroethyl Vinyl ether  
Concen: 18.392 ug/l  
RT: 10.033 min Scan# 24  
Delta R.T. -0.010 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

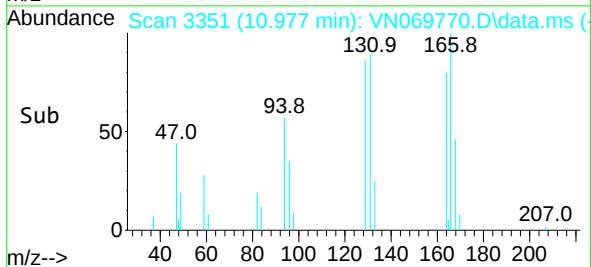
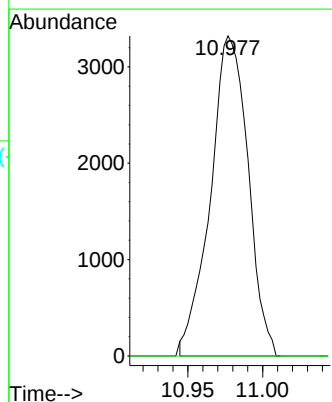
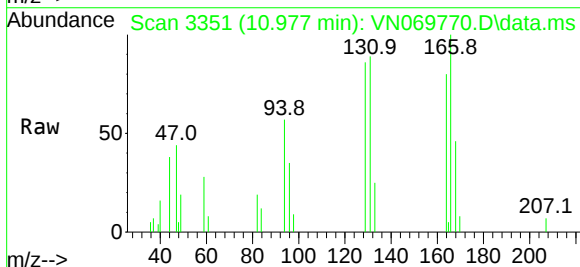
Instrument :  
MSVOA\_N  
ClientSampleId :

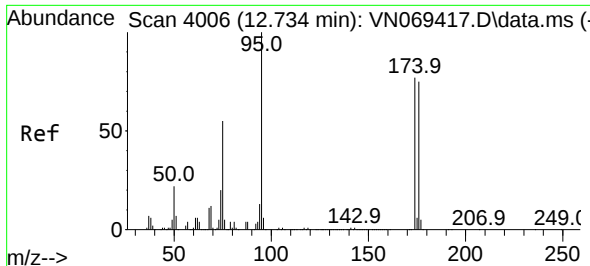
Tgt Ion: 63 Resp: 27  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.9 35.9#



#60  
Dibromochloromethane  
Concen: 2.672 ug/l  
RT: 10.977 min Scan# 3351  
Delta R.T. -0.263 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Tgt Ion:129 Resp: 5814  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#

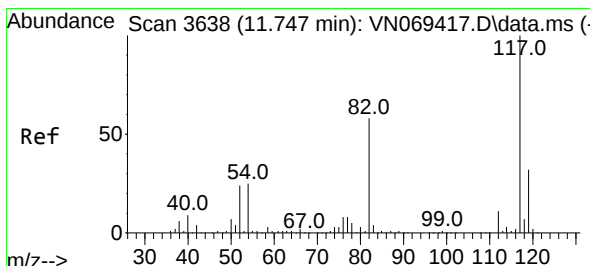
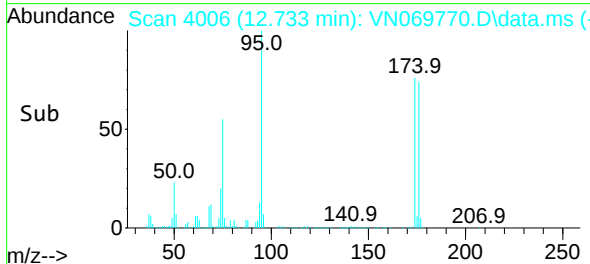
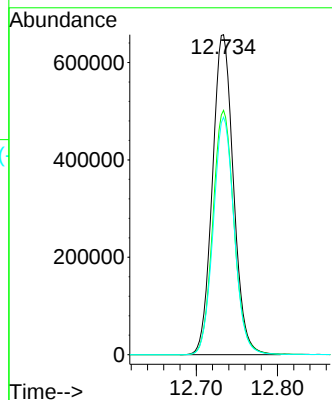
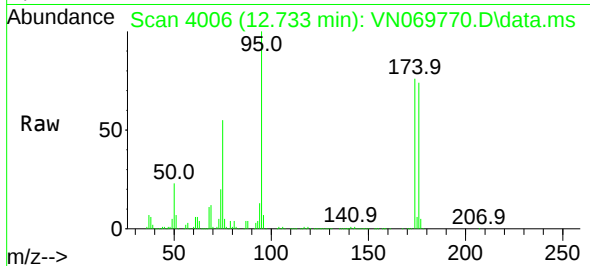




#62  
4-Bromofluorobenzene  
Concen: 53.271 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.002 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

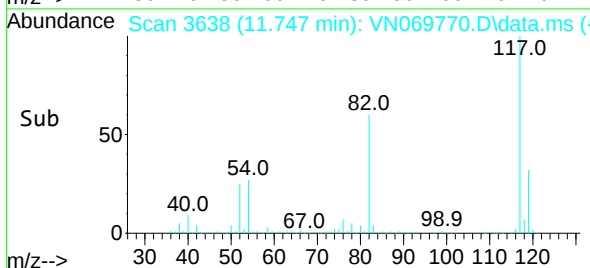
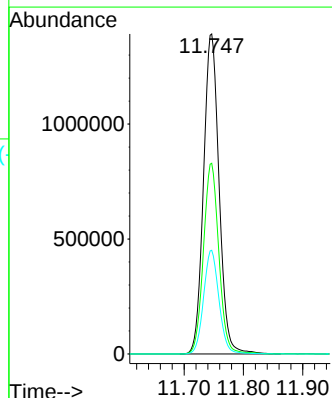
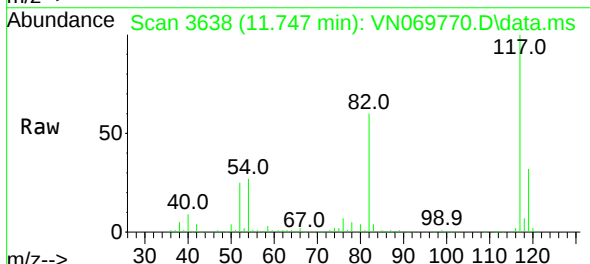
Instrument :  
MSVOA\_N  
ClientSampleId :

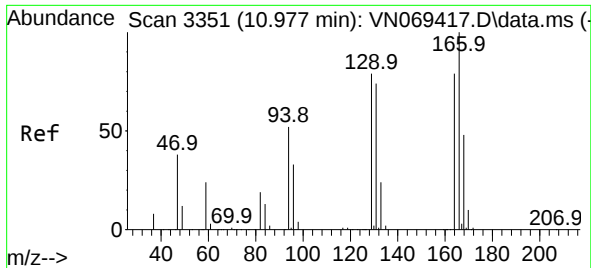
Tgt Ion: 95 Resp: 1184165  
Ion Ratio Lower Upper  
95 100  
174 76.9 0.0 187.2  
176 73.5 0.0 181.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.001 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

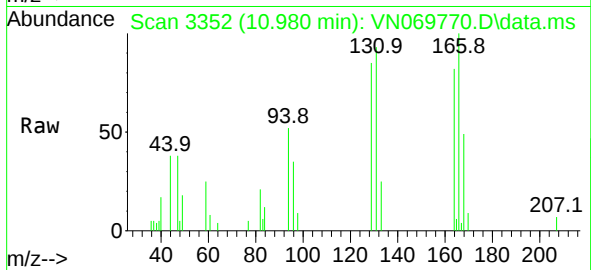
Tgt Ion: 117 Resp: 2536684  
Ion Ratio Lower Upper  
117 100  
82 59.6 42.4 63.6  
119 32.4 25.4 38.2



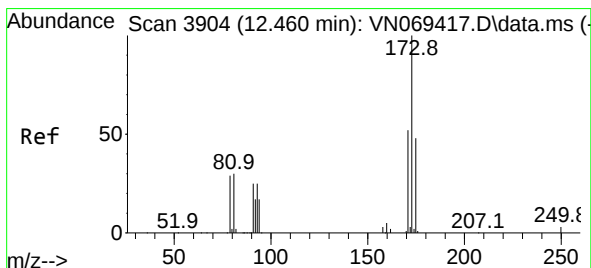
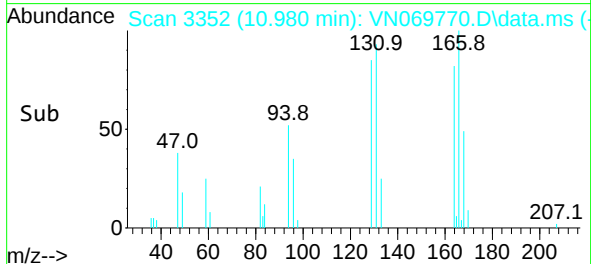
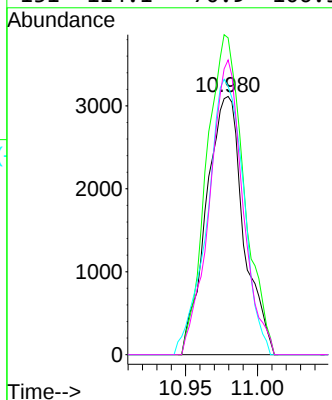


#64  
Tetrachloroethene  
Concen: 0.326 ug/l  
RT: 10.980 min Scan# 31  
Delta R.T. 0.001 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Instrument :  
MSVOA\_N  
ClientSampleId :

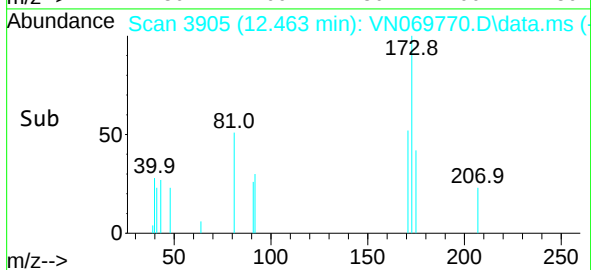
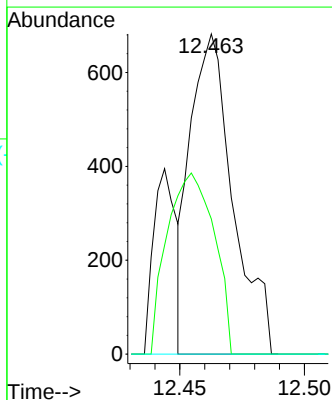
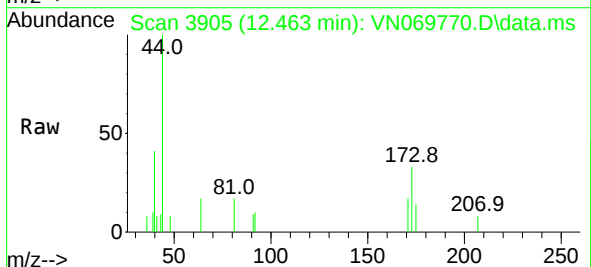


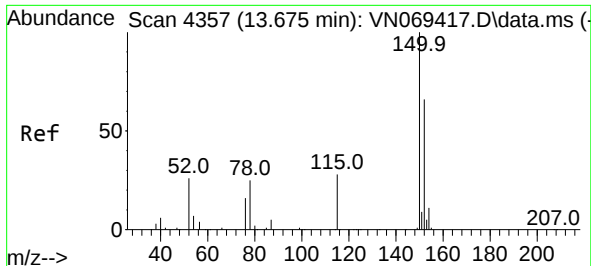
Tgt Ion:164 Resp: 5607  
Ion Ratio Lower Upper  
164 100  
166 122.7 101.9 152.9  
129 104.0 72.0 108.0  
131 114.1 70.9 106.3#



#71  
Bromoform  
Concen: 2.781 ug/l  
RT: 12.463 min Scan# 3905  
Delta R.T. 0.003 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

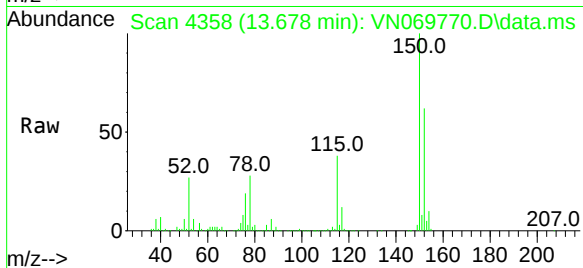
Tgt Ion:173 Resp: 816  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.2 72.6#  
254 0.0 0.0 0.0



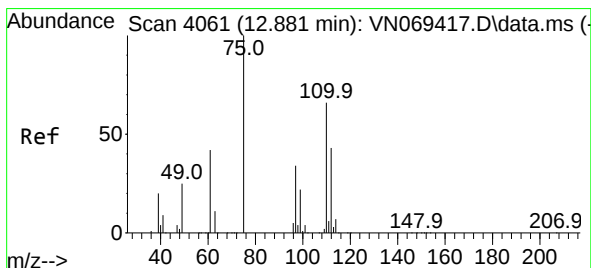
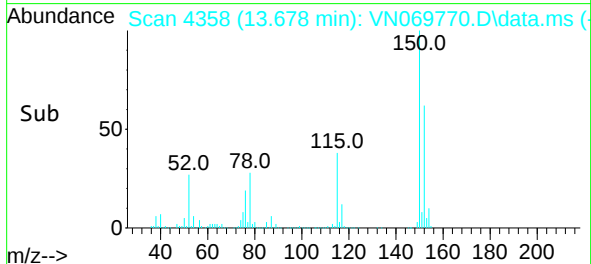
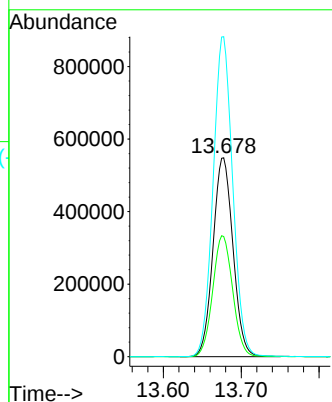


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.678 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VN069770.D  
 Acq: 4 Dec 2021 17:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :

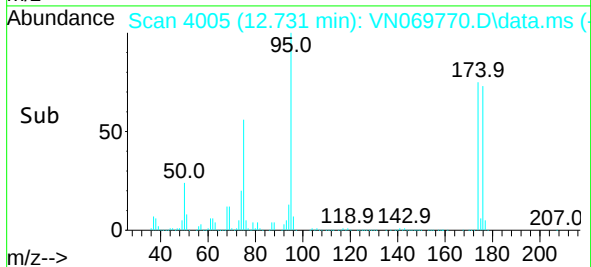
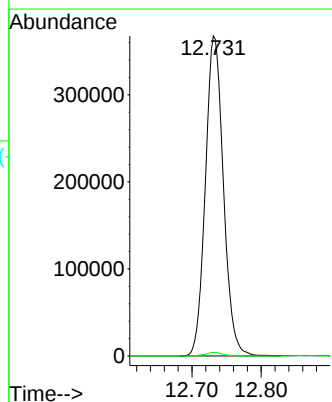
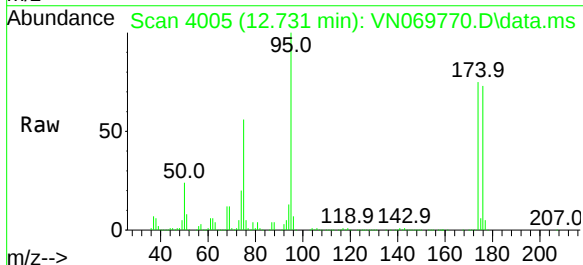


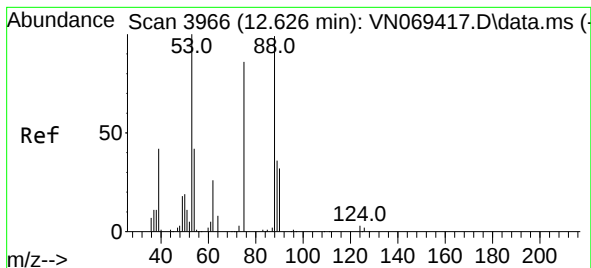
Tgt Ion:152 Resp: 976760  
 Ion Ratio Lower Upper  
 152 100  
 115 60.8 27.5 82.5  
 150 157.9 0.0 344.4



#76  
 1,2,3-Trichloropropane  
 Concen: 23.758 ug/l  
 RT: 12.731 min Scan# 4005  
 Delta R.T. -0.150 min  
 Lab File: VN069770.D  
 Acq: 4 Dec 2021 17:13

Tgt Ion: 75 Resp: 665481  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 82.6 247.8#

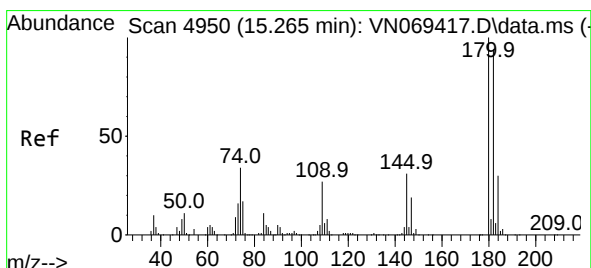
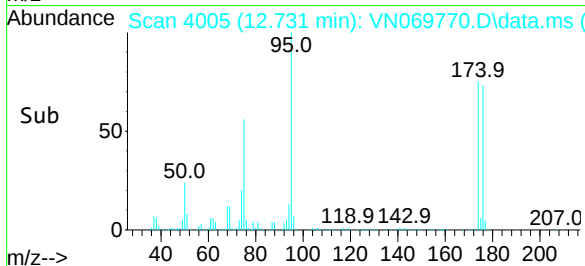
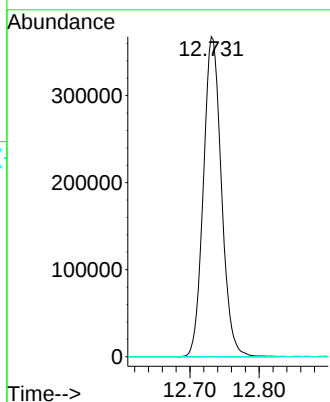
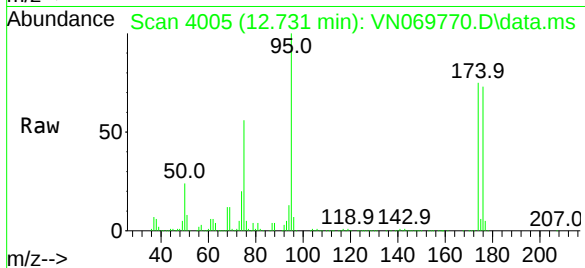




#81  
trans-1,4-Dichloro-2-butene  
Concen: 75.502 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. 0.105 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

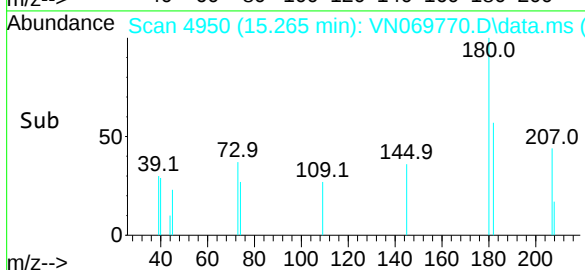
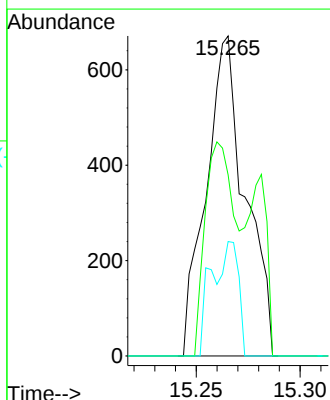
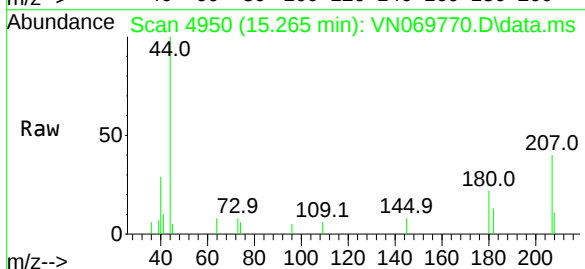
Instrument :  
MSVOA\_N  
ClientSampleId :

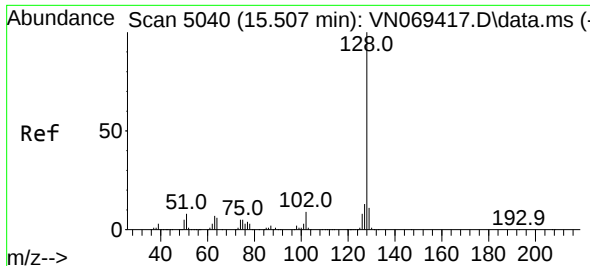
Tgt Ion: 75 Resp: 665481  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#



#93  
1,2,4-Trichlorobenzene  
Concen: 2.930 ug/l  
RT: 15.265 min Scan# 4950  
Delta R.T. 0.000 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Tgt Ion:180 Resp: 880  
Ion Ratio Lower Upper  
180 100  
182 49.5 48.3 144.9  
145 14.9 14.5 43.5

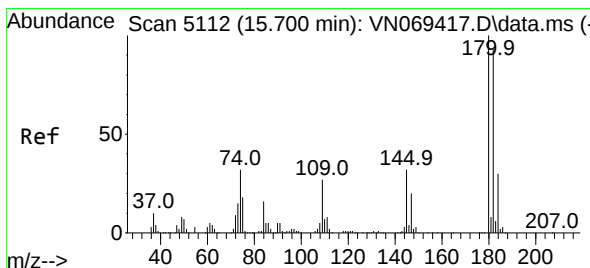
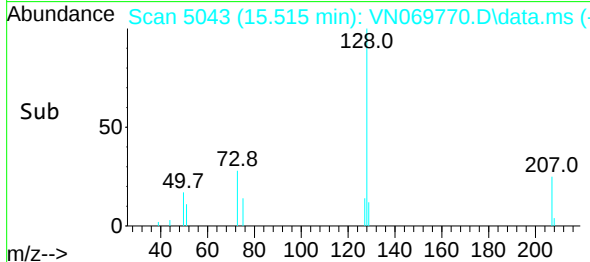
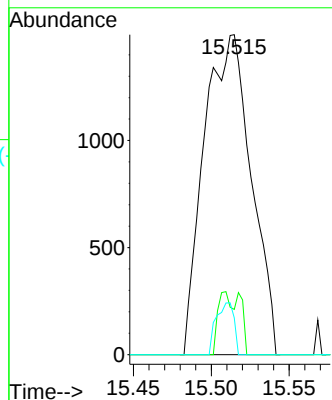
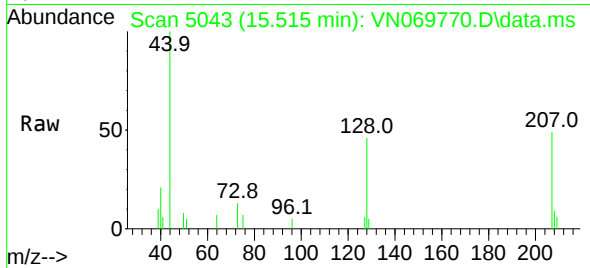




#95  
Naphthalene  
Concen: 4.046 ug/l  
RT: 15.515 min Scan# 5043  
Delta R.T. 0.008 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:128 Resp: 3149  
Ion Ratio Lower Upper  
128 100  
127 9.0 10.5 15.7#  
129 6.1 8.7 13.1#



#96  
1,2,3-Trichlorobenzene  
Concen: 2.470 ug/l  
RT: 15.700 min Scan# 5112  
Delta R.T. -0.002 min  
Lab File: VN069770.D  
Acq: 4 Dec 2021 17:13

Tgt Ion:180 Resp: 564  
Ion Ratio Lower Upper  
180 100  
182 166.3 47.4 142.2#  
145 0.0 15.0 45.1#

