

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120421\  
 Data File : VN069760.D  
 Acq On : 4 Dec 2021 12:36  
 Operator : JC/MD  
 Sample : VN1204WBL01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 04 16:10:36 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

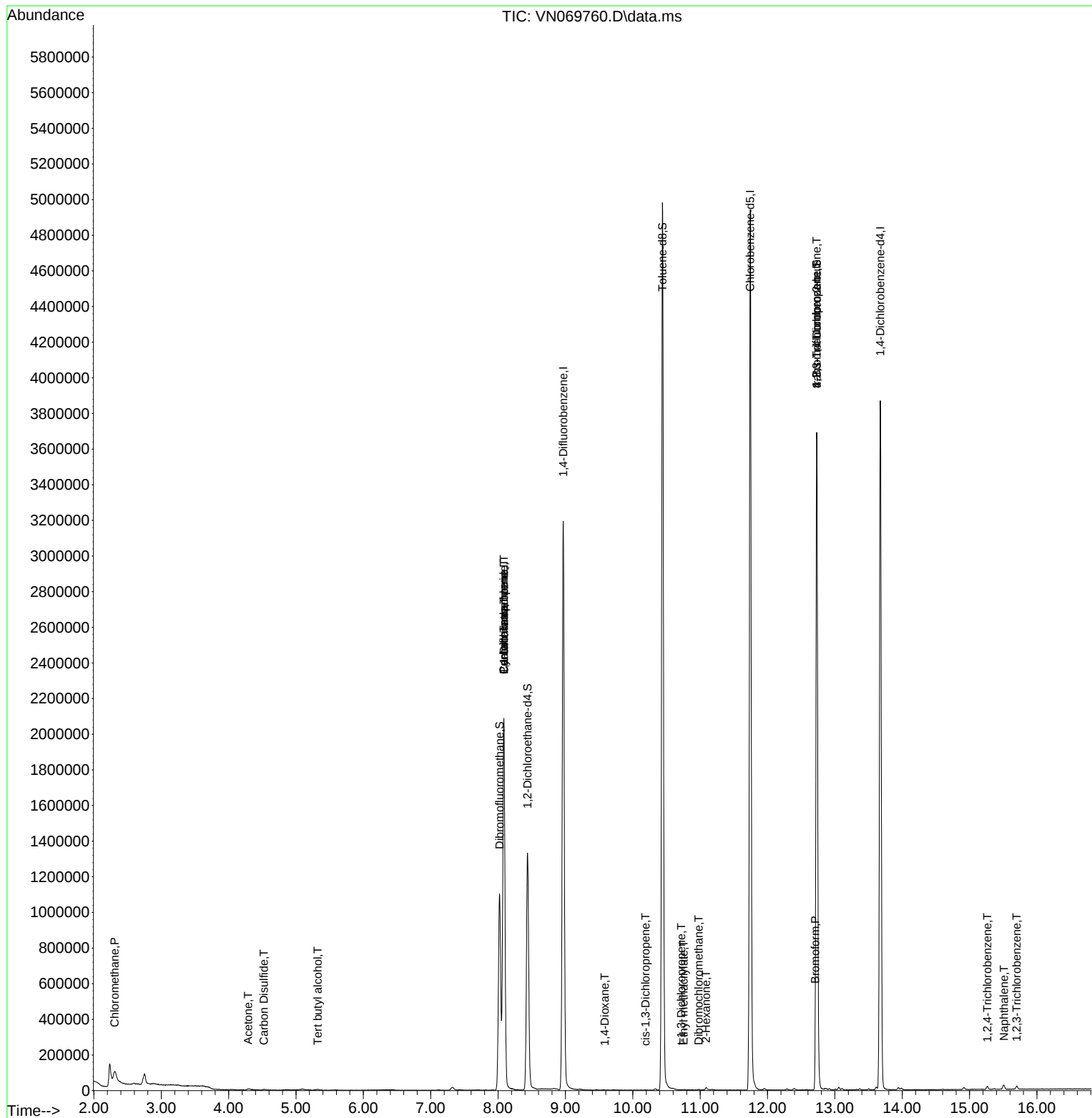
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.086  | 168   | 1543214  | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968  | 114   | 2685655  | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.744 | 117   | 2730652  | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.675 | 152   | 1039388  | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.437  | 65    | 1157825  | 48.592   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | =      | 97.180%  |
| 35) Dibromofluoromethane      | 8.021  | 113   | 799642   | 47.534   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | =      | 95.060%  |
| 50) Toluene-d8                | 10.440 | 98    | 3408288  | 50.458   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | =      | 100.920% |
| 62) 4-Bromofluorobenzene      | 12.731 | 95    | 1286942  | 52.591   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | =      | 105.180% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.306  | 50    | 5218     | 0.231    | ug/l   | 90       |
| 11) Tert butyl alcohol        | 5.321  | 59    | 4270     | 0.948    | ug/l # | 71       |
| 16) Acetone                   | 4.291  | 43    | 9966     | 0.695    | ug/l # | 85       |
| 17) Carbon Disulfide          | 4.524  | 76    | 8366     | 0.220    | ug/l # | 95       |
| 31) Cyclohexane               | 8.086  | 56    | 39476    | 1.190    | ug/l # | 41       |
| 36) 1,1-Dichloropropene       | 8.086  | 75    | 131560   | 5.146    | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.086  | 117   | 158858   | 6.336    | ug/l # | 16       |
| 49) 1,4-Dioxane               | 9.582  | 88    | 120      | 0.254    | ug/l # | 1        |
| 53) t-1,3-Dichloropropene     | 10.719 | 75    | 768      | 2.817    | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene   | 10.188 | 75    | 331      | 2.008    | ug/l # | 32       |
| 56) Ethyl methacrylate        | 10.754 | 69    | 881      | 2.302    | ug/l # | 72       |
| 59) 2-Hexanone                | 11.087 | 43    | 11589    | 0.419    | ug/l   | 87       |
| 60) Dibromochloromethane      | 10.980 | 129   | 649      | 2.406    | ug/l # | 11       |
| 71) Bromoform                 | 12.707 | 173   | 218      | 2.743    | ug/l # | 29       |
| 76) 1,2,3-Trichloropropane    | 12.731 | 75    | 717933   | 24.086   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.731 | 75    | 717933   | 76.488   | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 15.263 | 180   | 5931     | 3.206    | ug/l   | 88       |
| 95) Naphthalene               | 15.509 | 128   | 22989    | 4.402    | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.700 | 180   | 6426     | 2.803    | ug/l   | 97       |
| -----                         |        |       |          |          |        |          |

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

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Sample : VN1204WBL01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

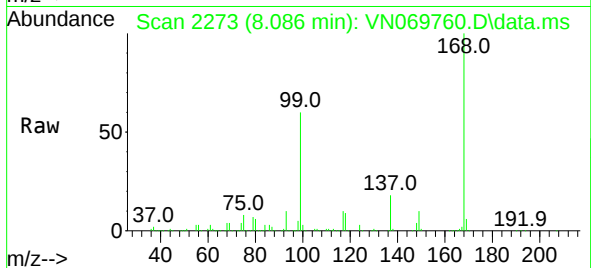
Quant Time: Dec 04 16:10:36 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 03 08:46:47 2021  
Response via : Initial Calibration



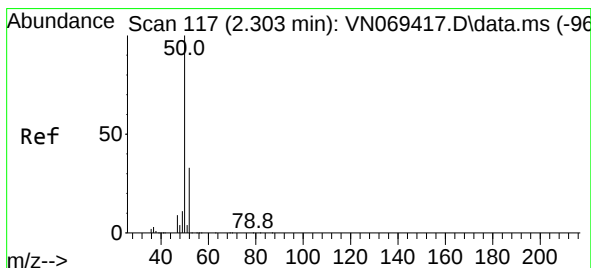
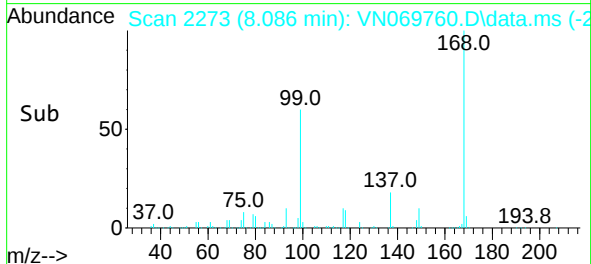
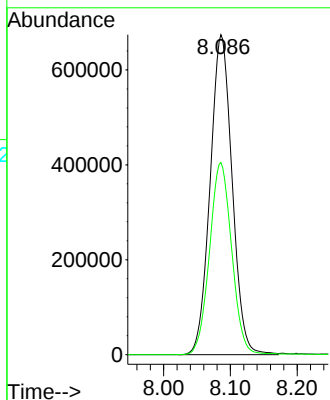


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

Instrument :  
MSVOA\_N  
ClientSampleId :

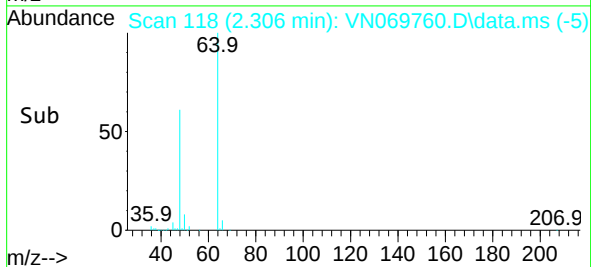
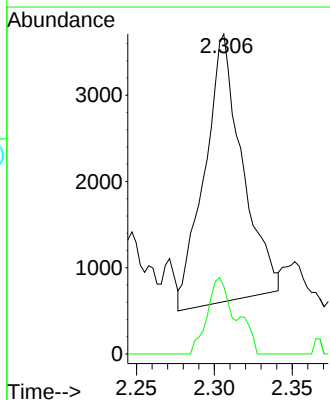
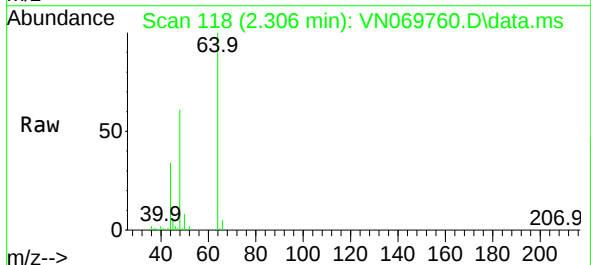


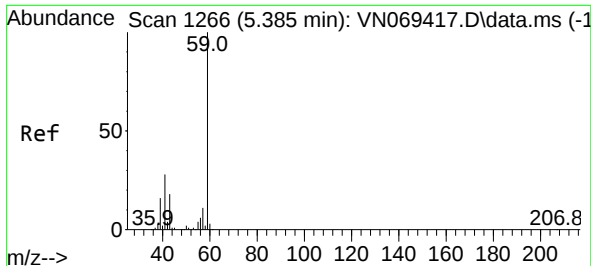
Tgt Ion:168 Resp: 1543214  
Ion Ratio Lower Upper  
168 100  
99 60.0 41.3 61.9



#3  
Chloromethane  
Concen: 0.231 ug/l  
RT: 2.306 min Scan# 118  
Delta R.T. 0.003 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

Tgt Ion: 50 Resp: 5218  
Ion Ratio Lower Upper  
50 100  
52 26.3 25.4 38.0





#11

Tert butyl alcohol

Concen: 0.948 ug/l

RT: 5.321 min Scan# 11

Delta R.T. -0.070 min

Lab File: VN069760.D

Acq: 4 Dec 2021 12:36

Instrument :

MSVOA\_N

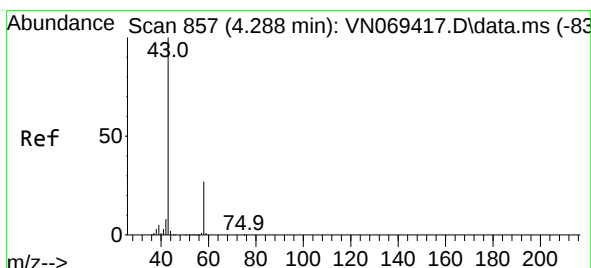
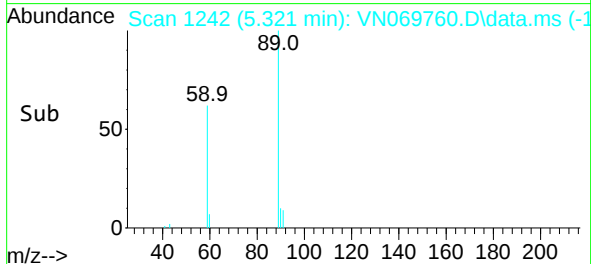
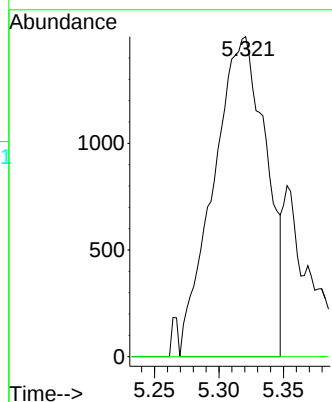
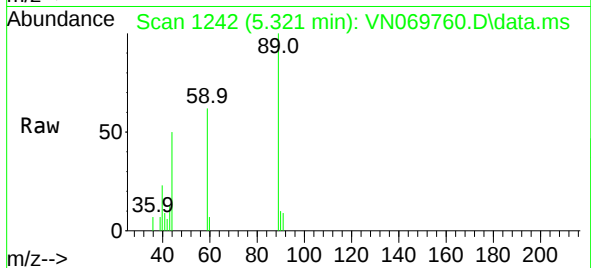
ClientSampleId :

Tgt Ion: 59 Resp: 4270

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#16

Acetone

Concen: 0.695 ug/l

RT: 4.291 min Scan# 858

Delta R.T. 0.000 min

Lab File: VN069760.D

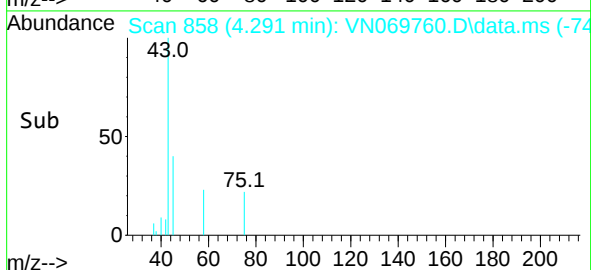
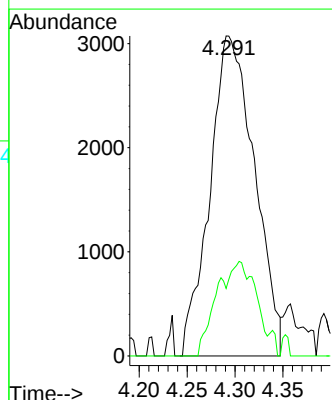
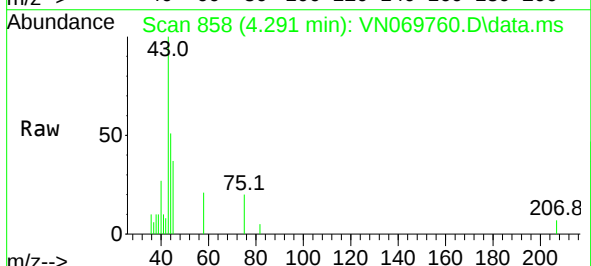
Acq: 4 Dec 2021 12:36

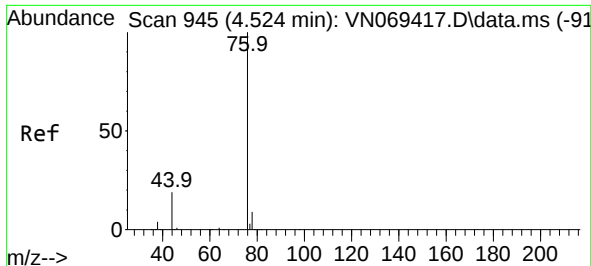
Tgt Ion: 43 Resp: 9966

Ion Ratio Lower Upper

43 100

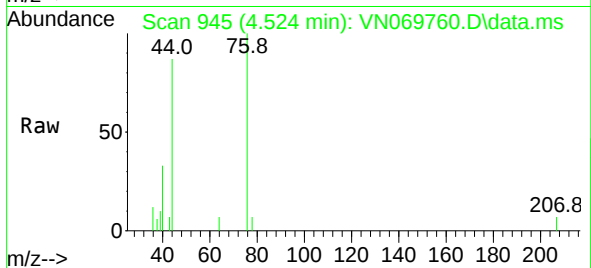
58 21.1 23.1 34.7#



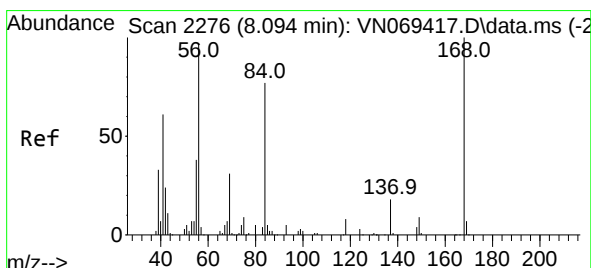
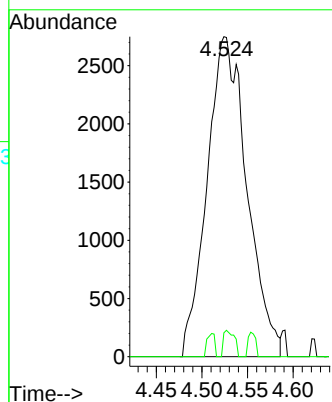
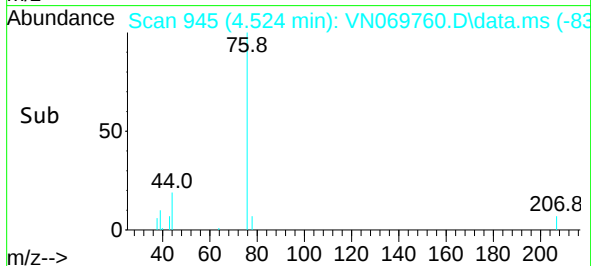


#17  
Carbon Disulfide  
Concen: 0.220 ug/l  
RT: 4.524 min Scan# 945  
Delta R.T. 0.000 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

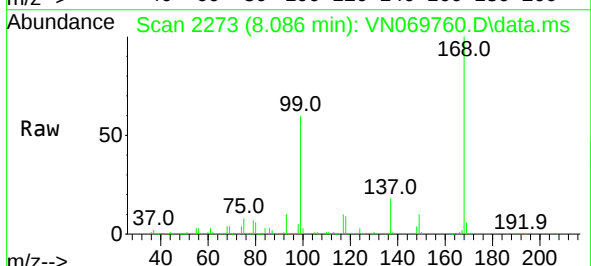
Instrument :  
MSVOA\_N  
ClientSampleId :



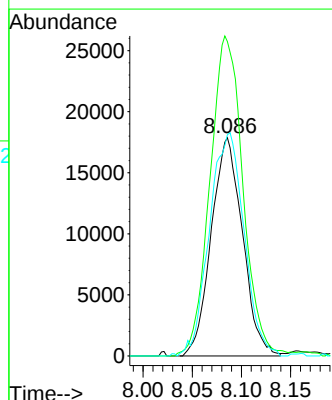
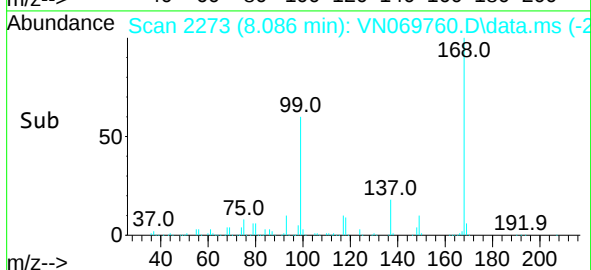
Tgt Ion: 76 Resp: 8366  
Ion Ratio Lower Upper  
76 100  
78 7.5 7.5 11.3#

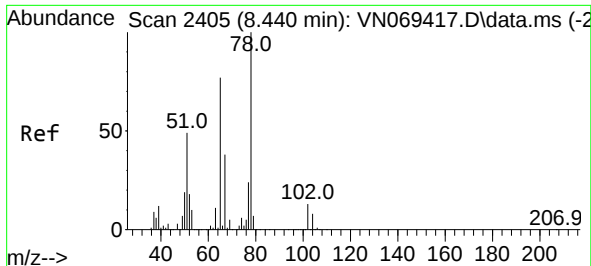


#31  
Cyclohexane  
Concen: 1.190 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.008 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36



Tgt Ion: 56 Resp: 39476  
Ion Ratio Lower Upper  
56 100  
69 142.4 27.1 40.7#  
84 101.4 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 48.592 ug/l

RT: 8.437 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VN069760.D

Acq: 4 Dec 2021 12:36

Instrument :

MSVOA\_N

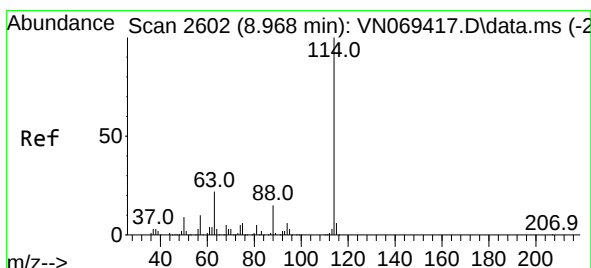
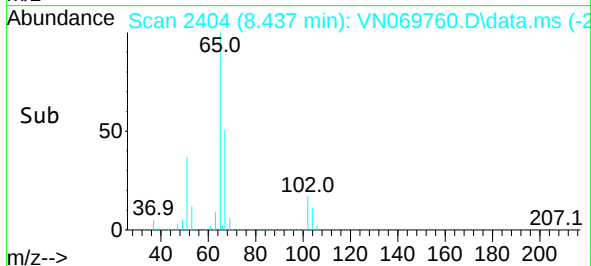
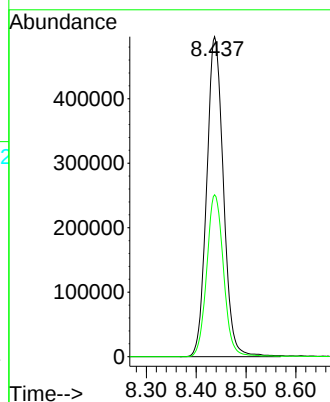
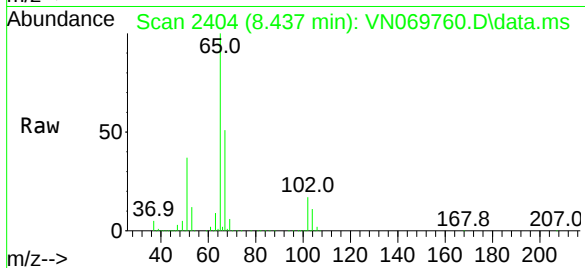
ClientSampleId :

Tgt Ion: 65 Resp: 1157825

Ion Ratio Lower Upper

65 100

67 50.7 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.000 min

Lab File: VN069760.D

Acq: 4 Dec 2021 12:36

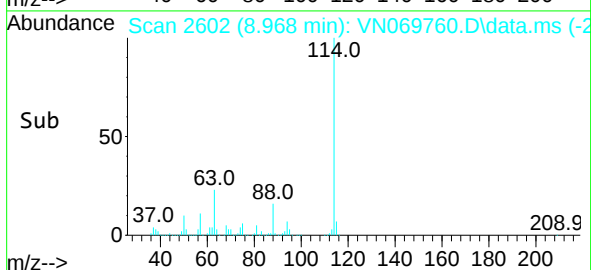
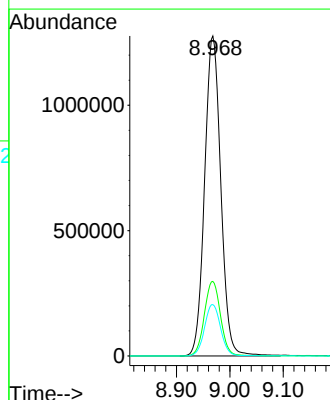
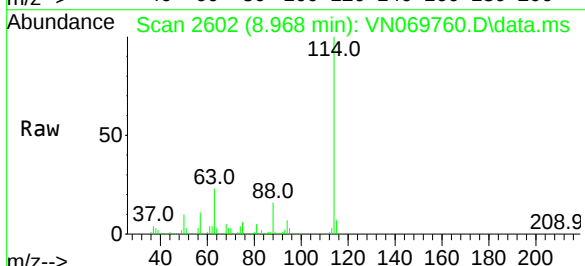
Tgt Ion: 114 Resp: 2685655

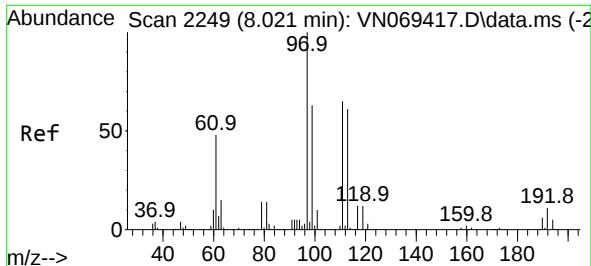
Ion Ratio Lower Upper

114 100

63 23.3 0.0 37.8

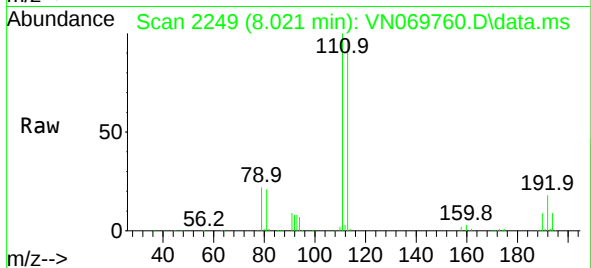
88 16.1 0.0 27.4



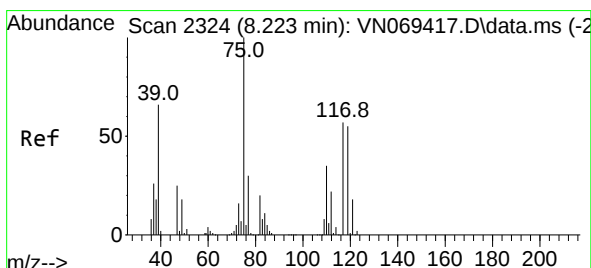
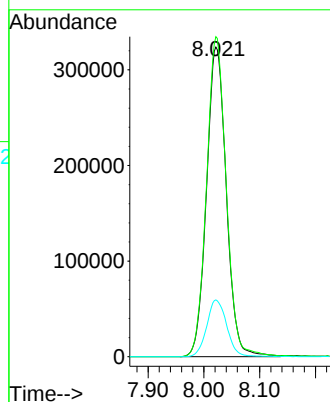
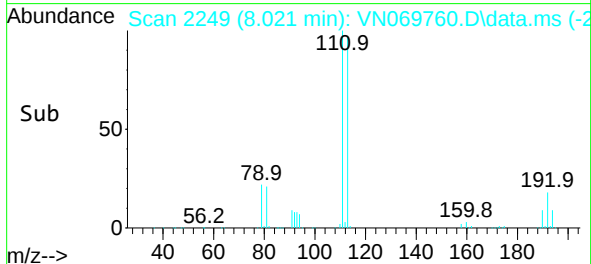


#35  
Dibromofluoromethane  
Concen: 47.534 ug/l  
RT: 8.021 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

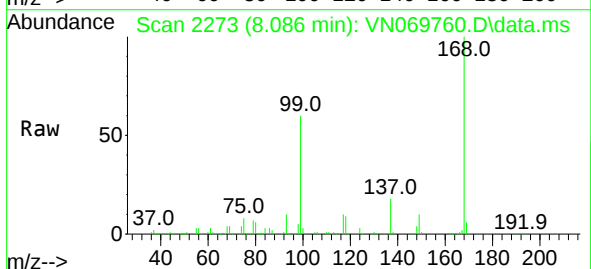
Instrument :  
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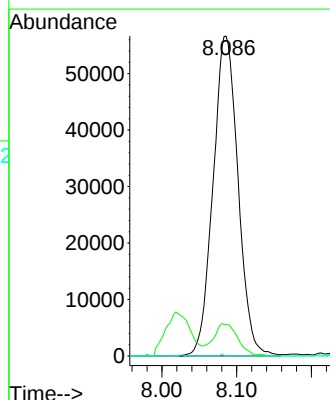
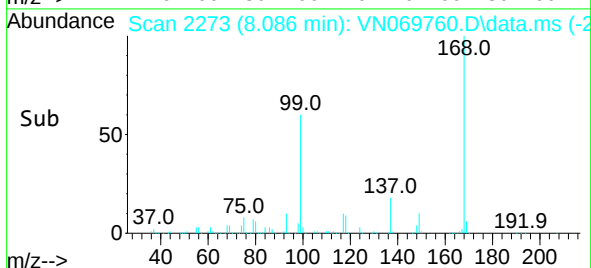
Tgt Ion:113 Resp: 799642  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.2 123.2  
192 18.6 16.9 25.3

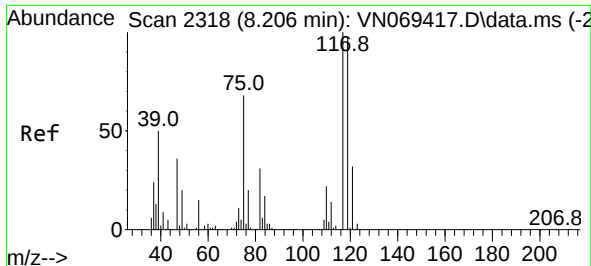


#36  
1,1-Dichloropropene  
Concen: 5.146 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.137 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36



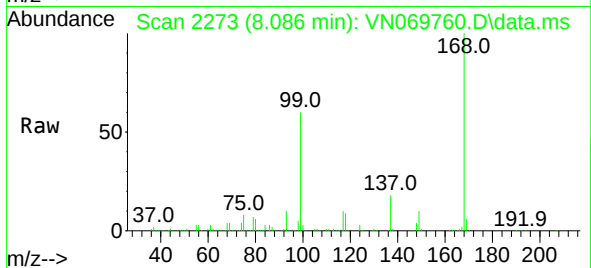
Tgt Ion: 75 Resp: 131560  
Ion Ratio Lower Upper  
75 100  
110 9.2 18.4 55.2#  
77 0.1 24.4 36.6#



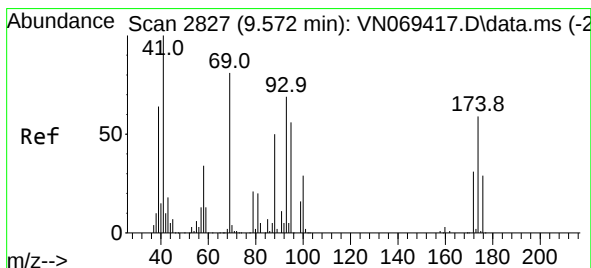
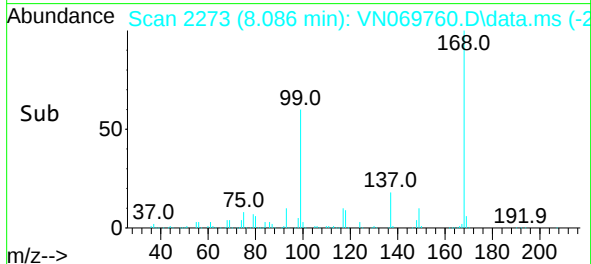
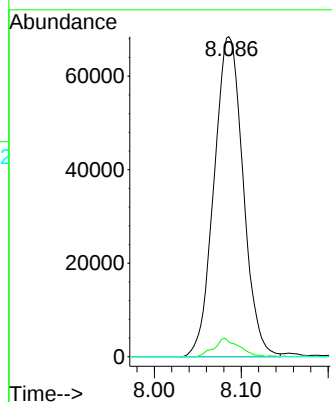


#38  
Carbon Tetrachloride  
Concen: 6.336 ug/l  
RT: 8.086 min Scan# 211  
Delta R.T. -0.120 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

Instrument :  
MSVOA\_N  
ClientSampleId :

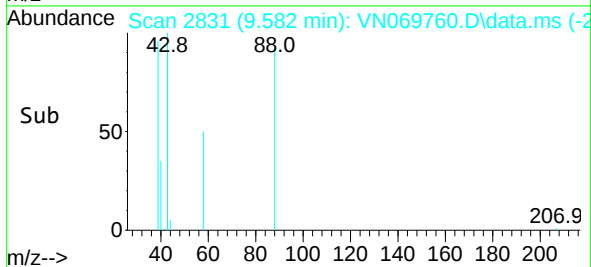
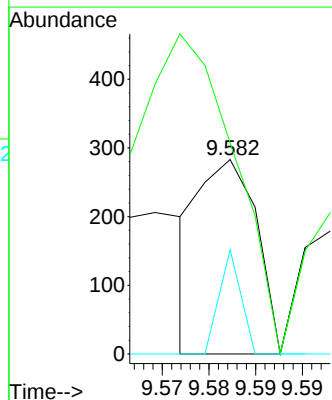
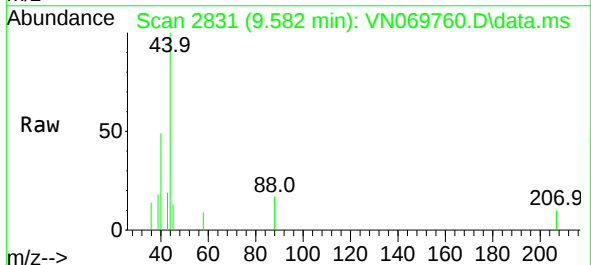


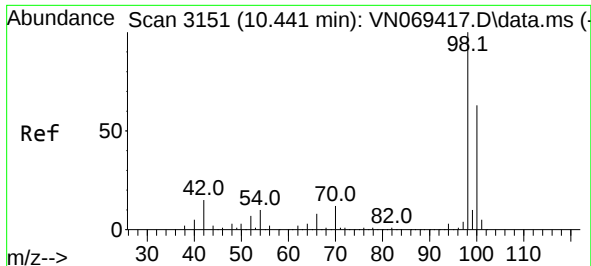
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Ion Ratio Lower Upper  
117 100  
119 4.6 76.1 114.1#  
121 0.0 24.2 36.2#



#49  
1,4-Dioxane  
Concen: 0.254 ug/l  
RT: 9.582 min Scan# 2831  
Delta R.T. 0.011 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

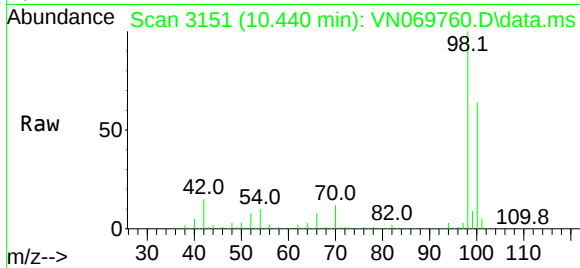
Tgt Ion: 88 Resp: 120  
Ion Ratio Lower Upper  
88 100  
43 239.2 23.4 35.2#  
58 20.0 50.6 75.8#



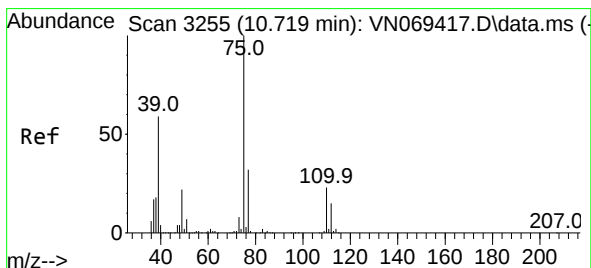
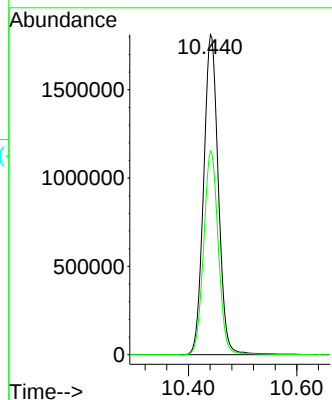
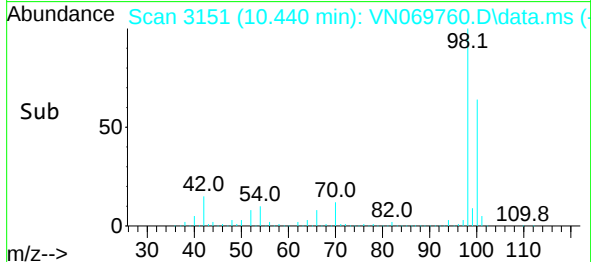


#50  
Toluene-d8  
Concen: 50.458 ug/l  
RT: 10.440 min Scan# 3151  
Delta R.T. -0.002 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

Instrument :  
MSVOA\_N  
ClientSampleId :

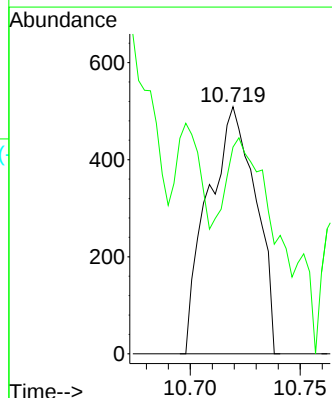
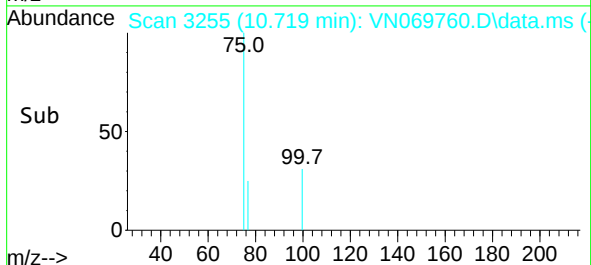
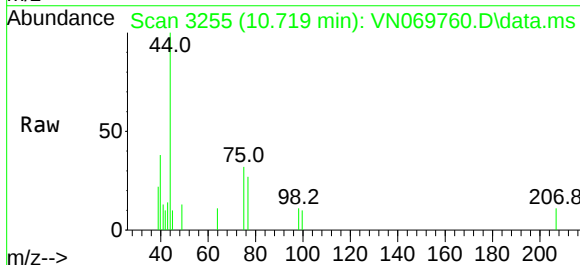


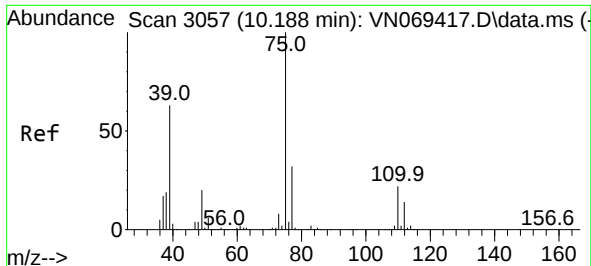
Tgt Ion: 98 Resp: 3408288  
Ion Ratio Lower Upper  
98 100  
100 63.6 50.4 75.6



#53  
t-1,3-Dichloropropene  
Concen: 2.817 ug/l  
RT: 10.719 min Scan# 3255  
Delta R.T. 0.000 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

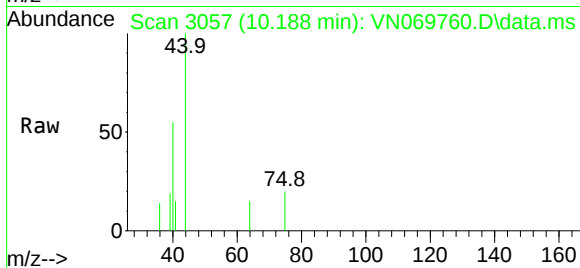
Tgt Ion: 75 Resp: 768  
Ion Ratio Lower Upper  
75 100  
77 35.8 25.6 38.4



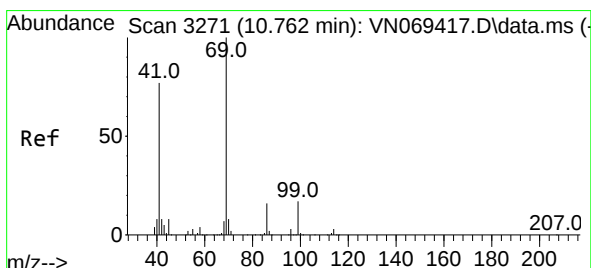
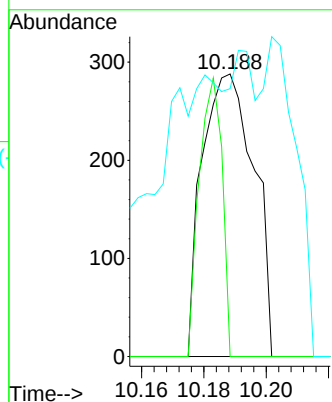
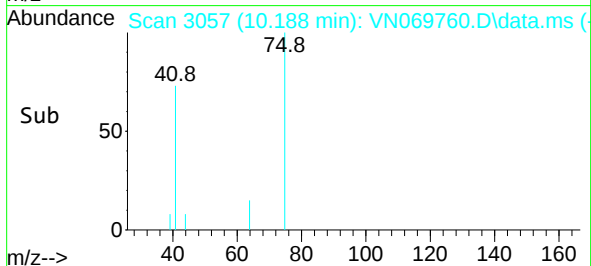


#54  
 cis-1,3-Dichloropropene  
 Concen: 2.008 ug/l  
 RT: 10.188 min Scan# 3057  
 Delta R.T. -0.003 min  
 Lab File: VN069760.D  
 Acq: 4 Dec 2021 12:36

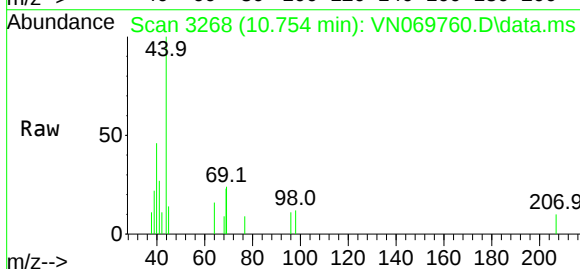
Instrument :  
 MSVOA\_N  
 ClientSampleId :



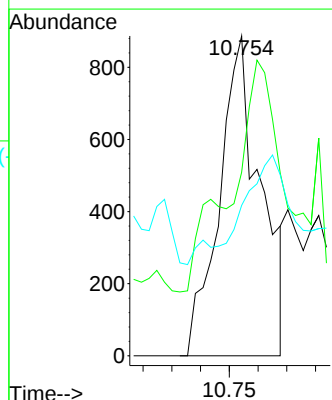
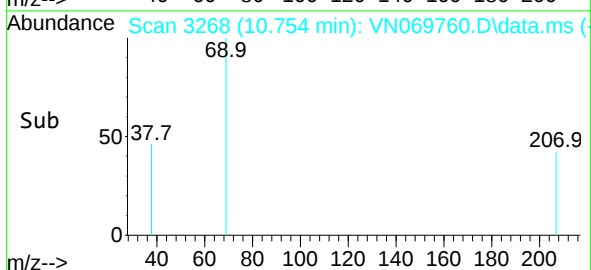
Tgt Ion: 75 Resp: 331  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 26.4 39.6#  
 39 0.0 42.5 63.7#

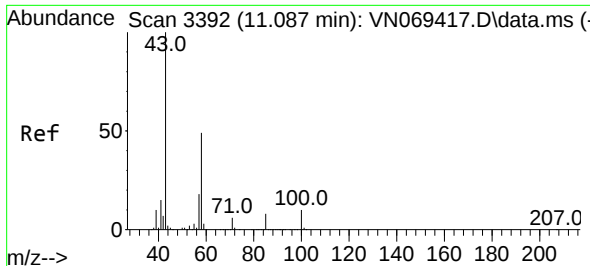


#56  
 Ethyl methacrylate  
 Concen: 2.302 ug/l  
 RT: 10.754 min Scan# 3268  
 Delta R.T. -0.008 min  
 Lab File: VN069760.D  
 Acq: 4 Dec 2021 12:36



Tgt Ion: 69 Resp: 881  
 Ion Ratio Lower Upper  
 69 100  
 41 41.3 51.4 77.0#  
 39 25.8 34.6 52.0#

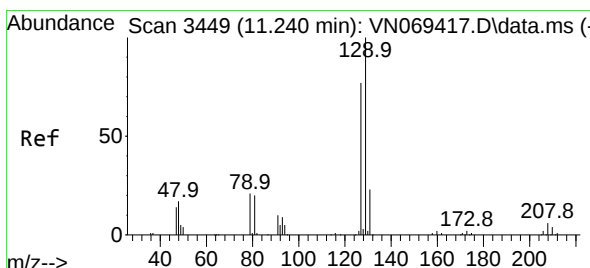
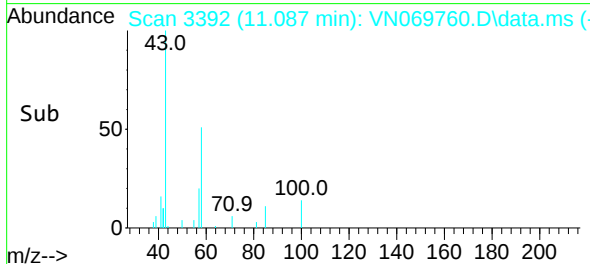
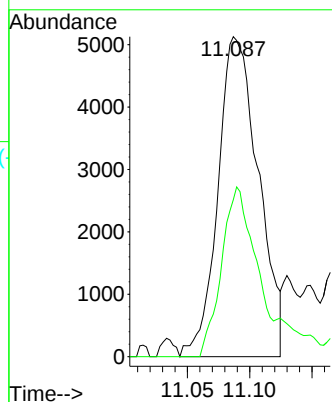
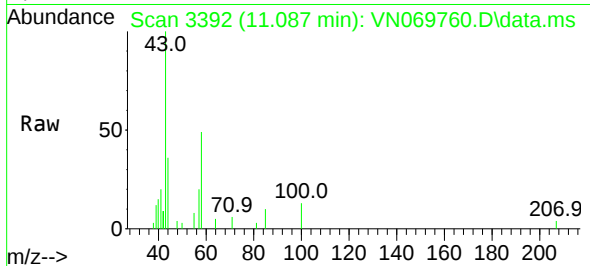




#59  
2-Hexanone  
Concen: 0.419 ug/l  
RT: 11.087 min Scan# 3392  
Delta R.T. -0.000 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

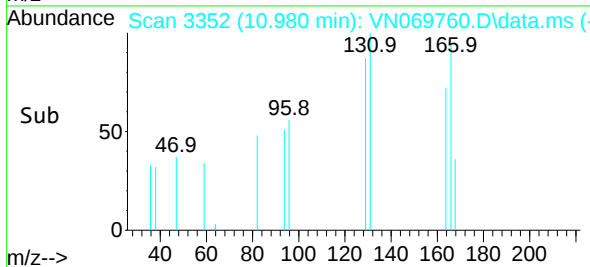
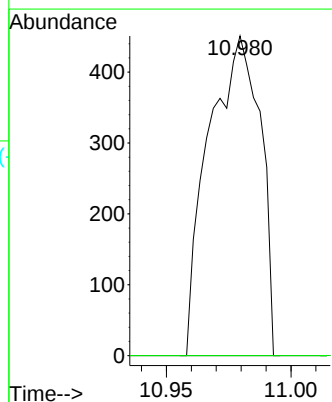
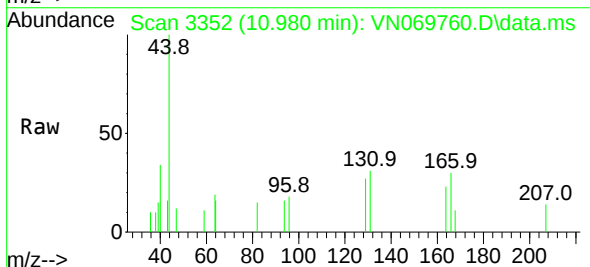
Instrument :  
MSVOA\_N  
ClientSampleId :

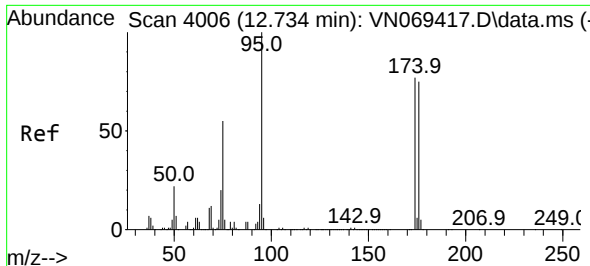
Tgt Ion: 43 Resp: 11589  
Ion Ratio Lower Upper  
43 100  
58 44.4 26.9 80.7



#60  
Dibromochloromethane  
Concen: 2.406 ug/l  
RT: 10.980 min Scan# 3352  
Delta R.T. -0.260 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

Tgt Ion: 129 Resp: 649  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#

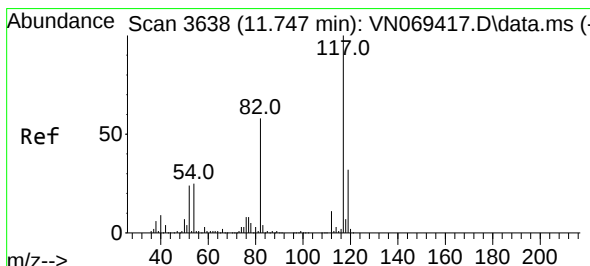
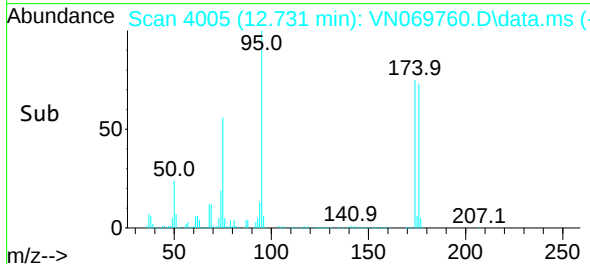
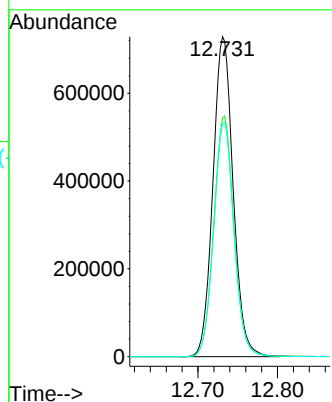
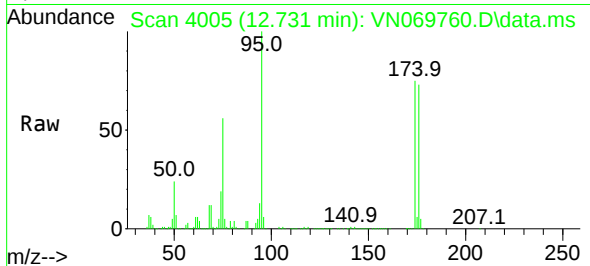




#62  
4-Bromofluorobenzene  
Concen: 52.591 ug/l  
RT: 12.731 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

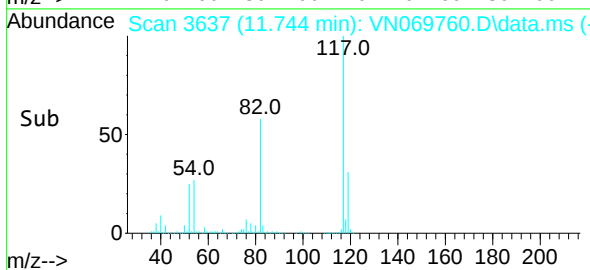
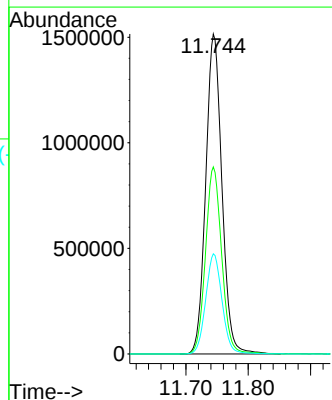
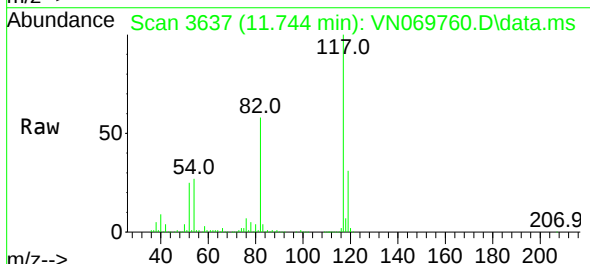
Instrument :  
MSVOA\_N  
ClientSampleId :

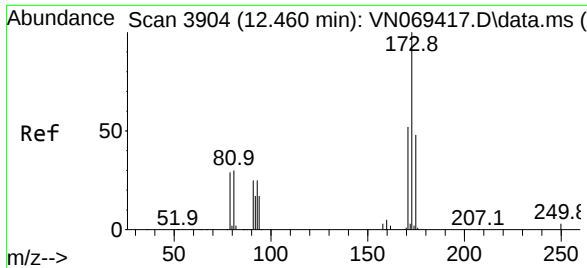
Tgt Ion: 95 Resp: 1286942  
Ion Ratio Lower Upper  
95 100  
174 75.4 0.0 187.2  
176 73.2 0.0 181.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 3637  
Delta R.T. -0.002 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

Tgt Ion: 117 Resp: 2730652  
Ion Ratio Lower Upper  
117 100  
82 58.5 42.4 63.6  
119 31.3 25.4 38.2

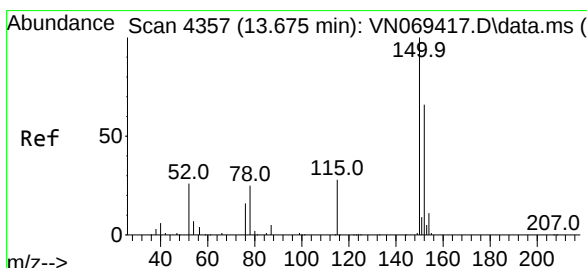
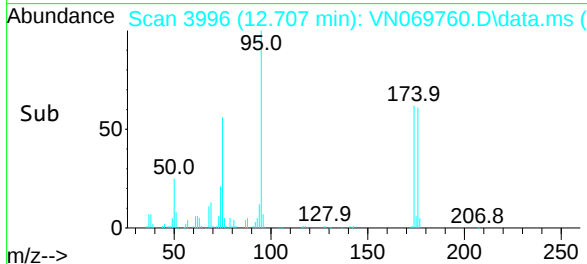
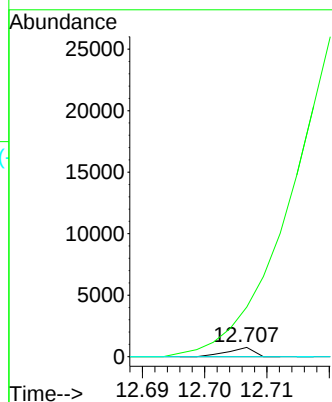
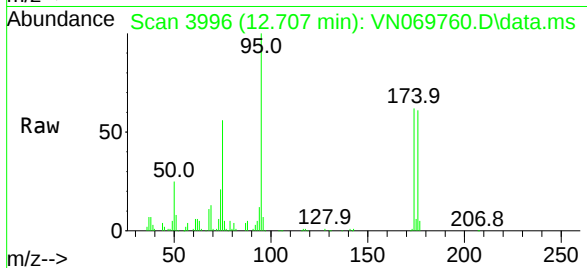




#71  
Bromoform  
Concen: 2.743 ug/l  
RT: 12.707 min Scan# 3904  
Delta R.T. 0.247 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

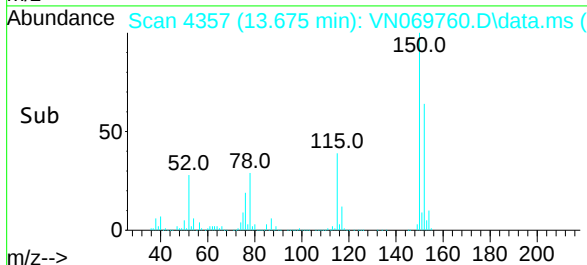
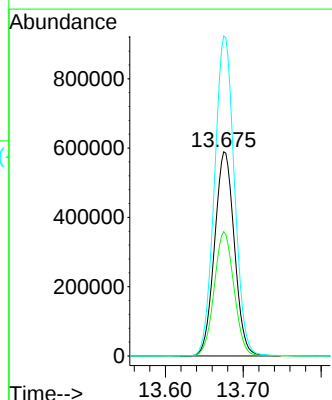
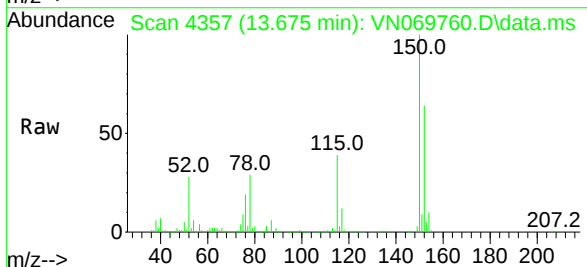
Instrument :  
MSVOA\_N  
ClientSampleId :

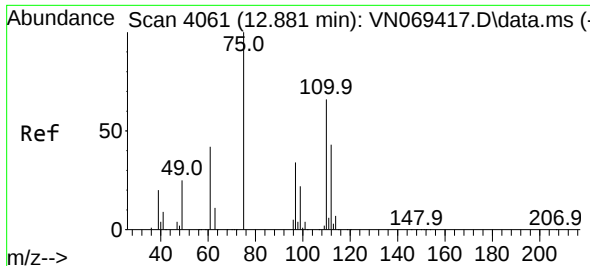
Tgt Ion:173 Resp: 218  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.2 72.6#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 4357  
Delta R.T. -0.002 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

Tgt Ion:152 Resp: 1039388  
Ion Ratio Lower Upper  
152 100  
115 60.7 27.5 82.5  
150 157.4 0.0 344.4

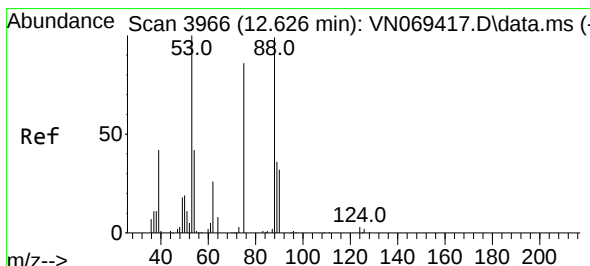
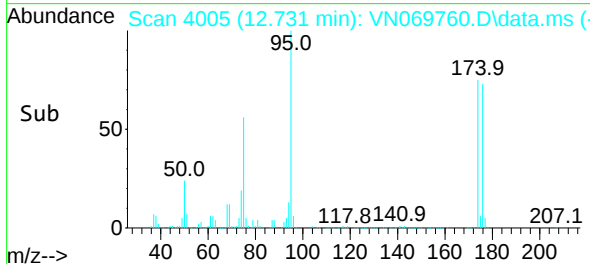
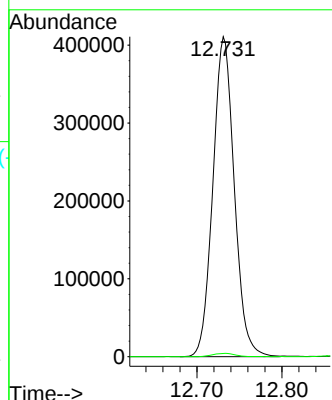
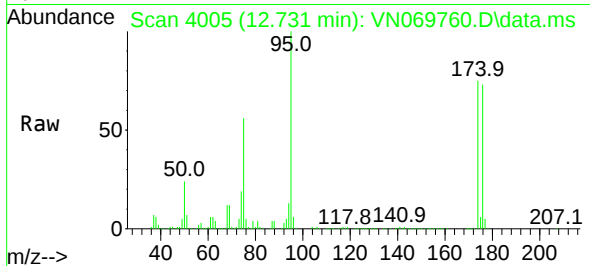




#76  
1,2,3-Trichloropropane  
Concen: 24.086 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.150 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

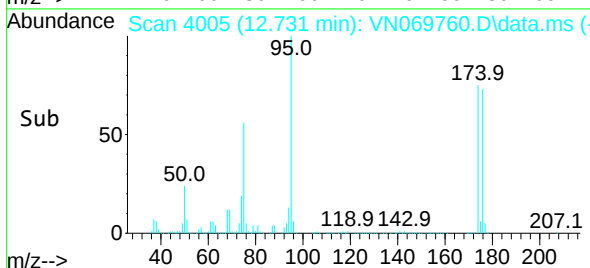
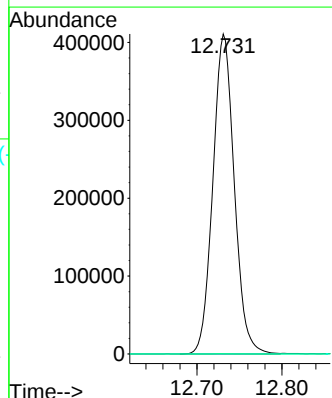
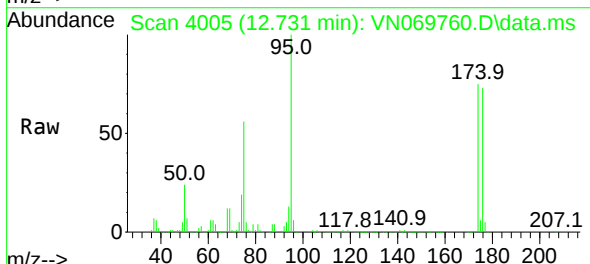
Instrument :  
MSVOA\_N  
ClientSampleId :

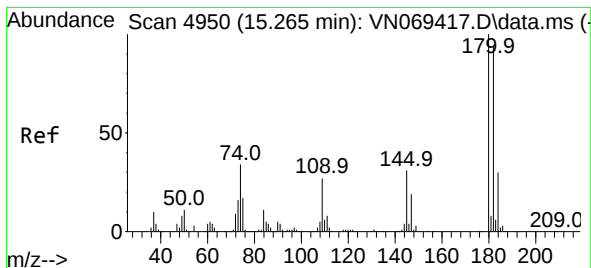
Tgt Ion: 75 Resp: 717933  
Ion Ratio Lower Upper  
75 100  
77 1.1 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.488 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. 0.105 min  
Lab File: VN069760.D  
Acq: 4 Dec 2021 12:36

Tgt Ion: 75 Resp: 717933  
Ion Ratio Lower Upper  
75 100  
53 0.1 90.5 135.7#  
89 0.0 38.2 57.4#





#93

1,2,4-Trichlorobenzene

Concen: 3.206 ug/l

RT: 15.263 min Scan# 4950

Delta R.T. -0.002 min

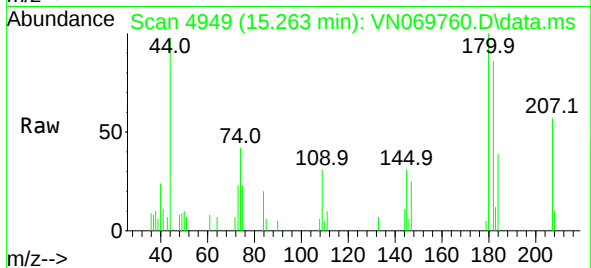
Lab File: VN069760.D

Acq: 4 Dec 2021 12:36

Instrument :

MSVOA\_N

ClientSampleId :



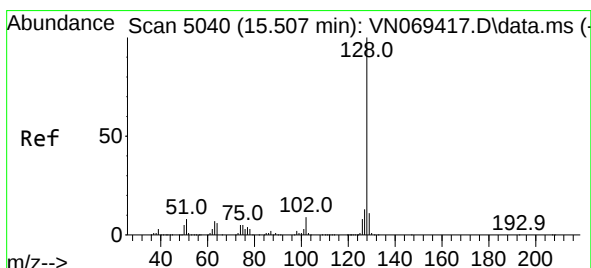
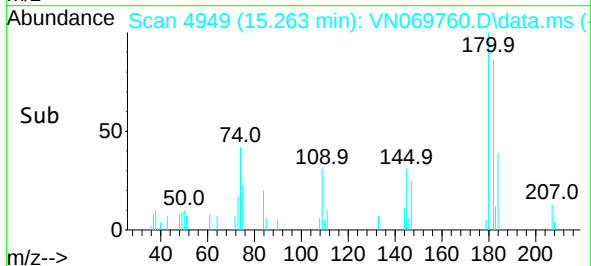
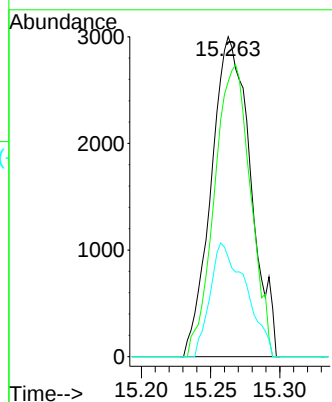
Tgt Ion:180 Resp: 5931

Ion Ratio Lower Upper

180 100

182 83.6 48.3 144.9

145 32.3 14.5 43.5



#95

Naphthalene

Concen: 4.402 ug/l

RT: 15.509 min Scan# 5041

Delta R.T. 0.002 min

Lab File: VN069760.D

Acq: 4 Dec 2021 12:36

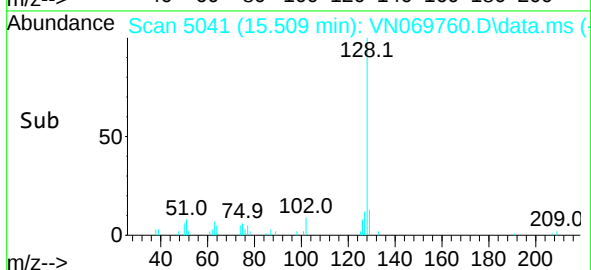
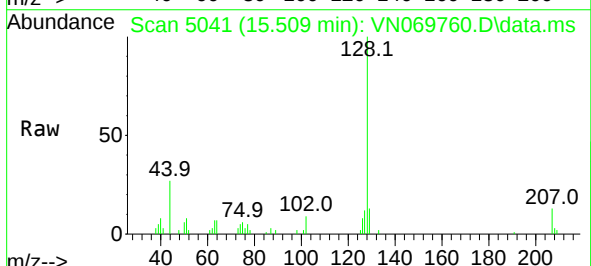
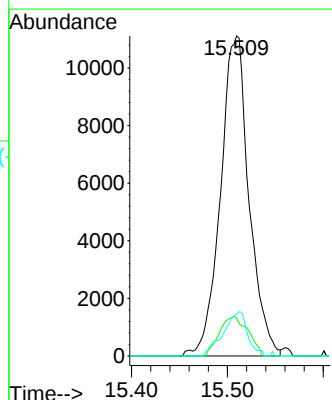
Tgt Ion:128 Resp: 22989

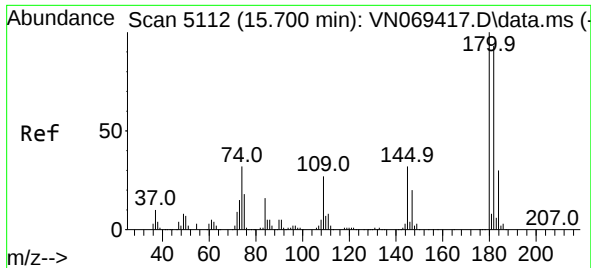
Ion Ratio Lower Upper

128 100

127 12.4 10.5 15.7

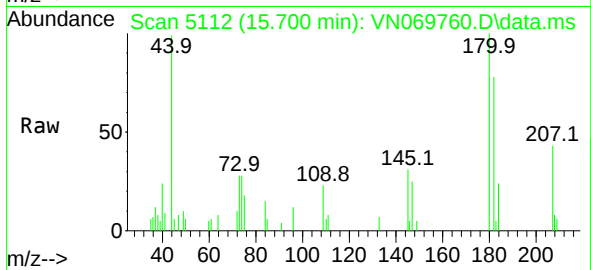
129 11.8 8.7 13.1





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.803 ug/l  
 RT: 15.700 min Scan# 51  
 Delta R.T. -0.002 min  
 Lab File: VN069760.D  
 Acq: 4 Dec 2021 12:36

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 6426  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 92.1  | 47.4  | 142.2 |
| 145      | 29.1  | 15.0  | 45.1  |

