

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111821\  
 Data File : VN069551.D  
 Acq On : 18 Nov 2021 14:26  
 Operator : JC/MD  
 Sample : M4740-05  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 19 03:18:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 09 18:18:22 2021  
 Response via : Initial Calibration

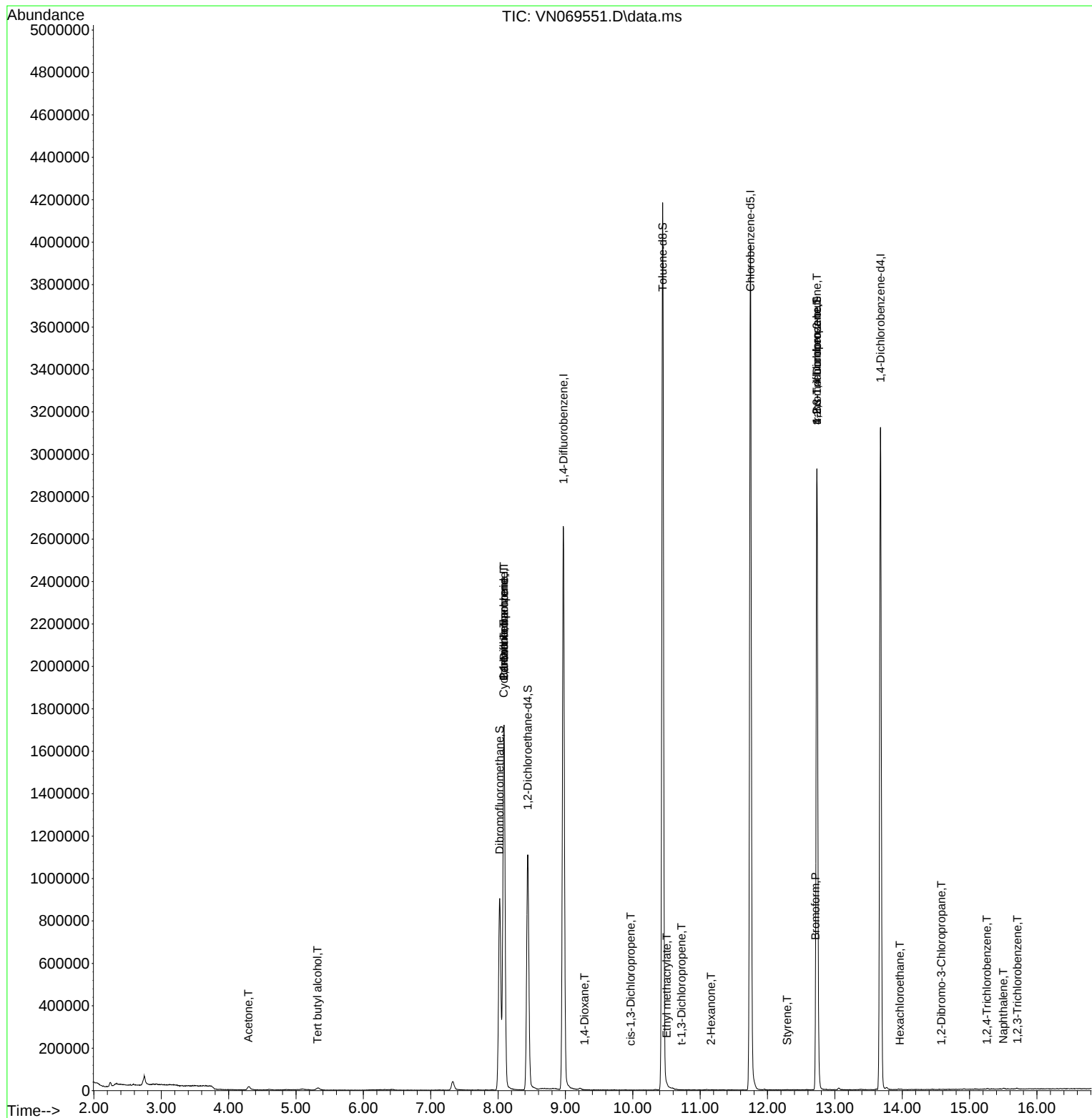
| Compound                      | R.T. QIon |                | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|-----------|----------------|----------|------------|--------|----------|
| Internal Standards            |           |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.088     | 168            | 1274604  | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.971     | 114            | 2258749  | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.747    | 117            | 2240921  | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678    | 152            | 830701   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |           |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440     | 65             | 950891   | 51.452     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 61 - 141 | Recovery | = 102.900% |        |          |
| 35) Dibromofluoromethane      | 8.024     | 113            | 656940   | 48.493     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 69 - 133 | Recovery | = 96.980%  |        |          |
| 50) Toluene-d8                | 10.443    | 98             | 2854862  | 53.582     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 65 - 126 | Recovery | = 107.160% |        |          |
| 62) 4-Bromofluorobenzene      | 12.734    | 95             | 999469   | 51.063     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 58 - 135 | Recovery | = 102.120% |        |          |
| Target Compounds              |           |                |          |            |        | Qvalue   |
| 11) Tert butyl alcohol        | 5.318     | 59             | 5886     | 1.767      | ug/l # | 71       |
| 13) Acrolein                  | 4.039     | 56             | 366      | Below Cal  | #      | 39       |
| 16) Acetone                   | 4.293     | 43             | 14032    | 1.407      | ug/l   | 94       |
| 31) Cyclohexane               | 8.083     | 56             | 33910    | 1.343      | ug/l # | 35       |
| 36) 1,1-Dichloropropene       | 8.088     | 75             | 111914   | 5.888      | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.088     | 117            | 135822   | 7.402      | ug/l # | 16       |
| 49) 1,4-Dioxane               | 9.285     | 88             | 233      | 39.641     | ug/l # | 27       |
| 53) t-1,3-Dichloropropene     | 10.722    | 75             | 110      | 2.642      | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 9.971     | 75             | 76       | 1.736      | ug/l # | 65       |
| 56) Ethyl methacrylate        | 10.505    | 69             | 144      | 2.058      | ug/l   | 94       |
| 59) 2-Hexanone                | 11.162    | 43             | 172      | 7.949      | ug/l   | 68       |
| 70) Styrene                   | 12.291    | 104            | 523      | 1.530      | ug/l # | 45       |
| 71) Bromoform                 | 12.712    | 173            | 435      | 3.460      | ug/l # | 29       |
| 76) 1,2,3-Trichloropropane    | 12.734    | 75             | 560731   | 29.249     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.734    | 75             | 560731   | 82.776     | ug/l # | 5        |
| 90) Hexachloroethane          | 13.965    | 117            | 98       | 2.172      | ug/l # | 6        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.582    | 75             | 57       | 1.810      | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene    | 15.257    | 180            | 344      | 3.138      | ug/l # | 1        |
| 95) Naphthalene               | 15.501    | 128            | 1971     | 4.500      | ug/l # | 89       |
| 96) 1,2,3-Trichlorobenzene    | 15.708    | 180            | 1200     | 3.259      | ug/l # | 53       |

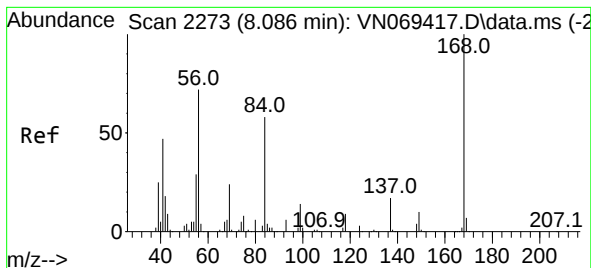
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Nov 09 18:18:22 2021  
Response via : Initial Calibration

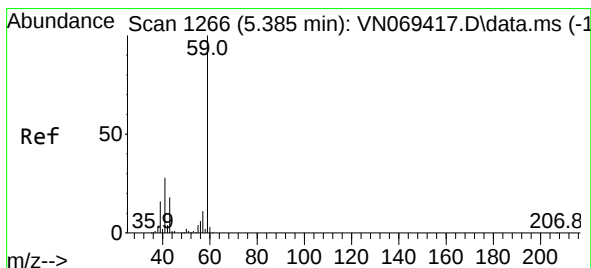
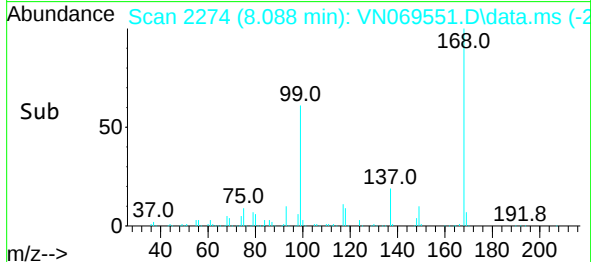
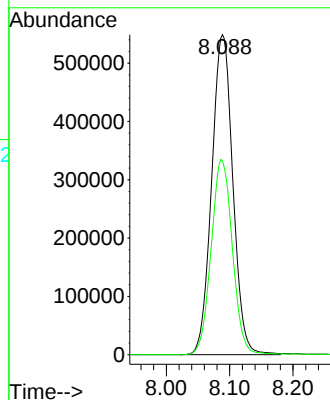
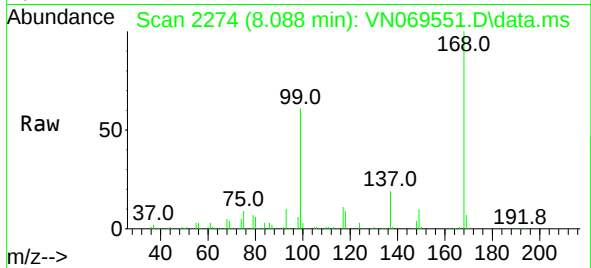




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

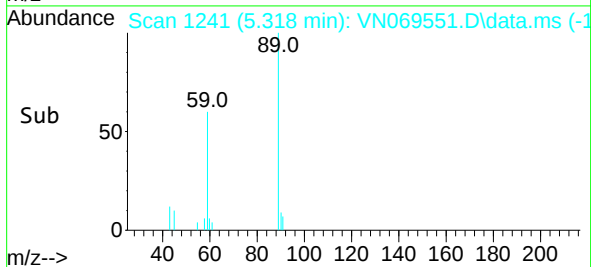
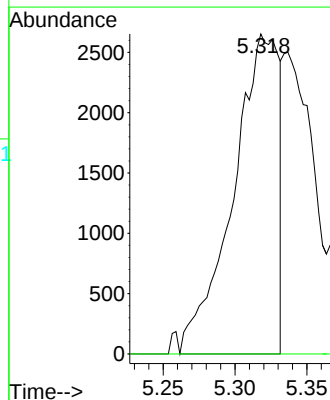
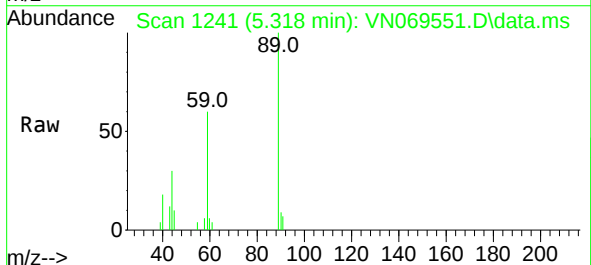
Instrument :  
MSVOA\_N  
ClientSampleId :

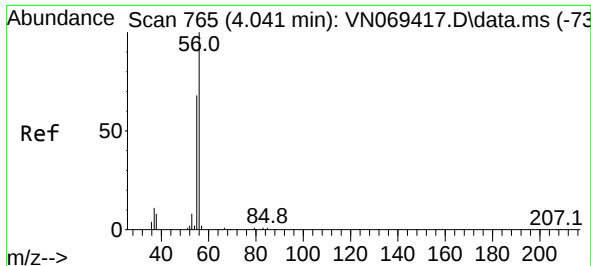
Tgt Ion:168 Resp: 1274604  
Ion Ratio Lower Upper  
168 100  
99 60.5 41.3 61.9



#11  
Tert butyl alcohol  
Concen: 1.767 ug/l  
RT: 5.318 min Scan# 1241  
Delta R.T. -0.067 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

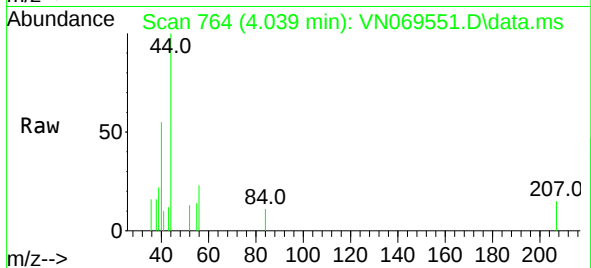
Tgt Ion: 59 Resp: 5886  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#



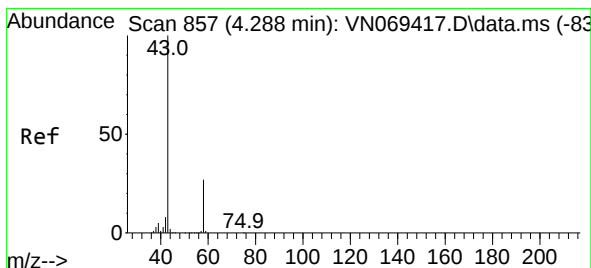
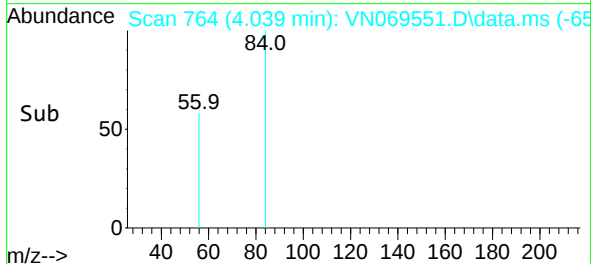
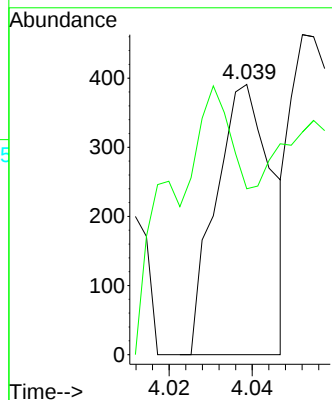


#13  
Acrolein  
Concen: Below Cal  
RT: 4.039 min Scan# 764  
Delta R.T. -0.002 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

Instrument :  
MSVOA\_N  
ClientSampleId :

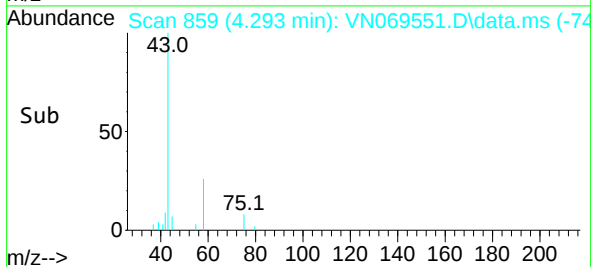
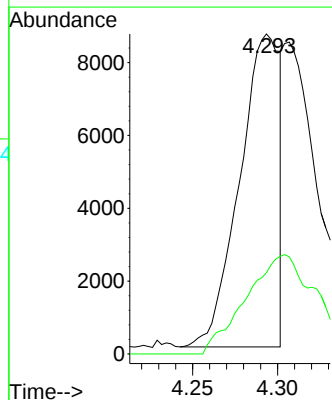
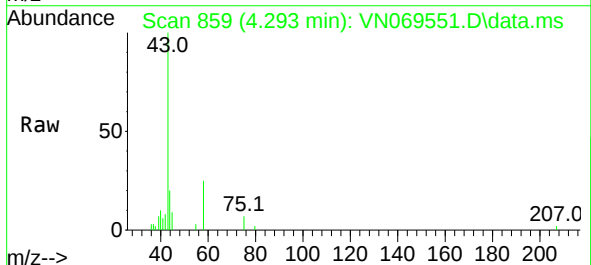


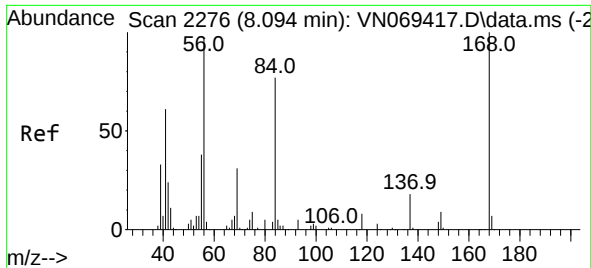
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Ion Ratio Lower Upper  
56 100  
55 120.8 56.6 85.0#



#16  
Acetone  
Concen: 1.407 ug/l  
RT: 4.293 min Scan# 859  
Delta R.T. 0.005 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

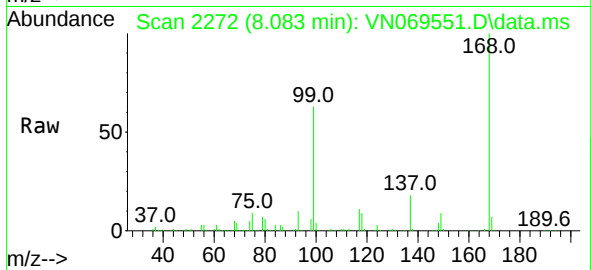
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Ion Ratio Lower Upper  
43 100  
58 25.9 23.1 34.7



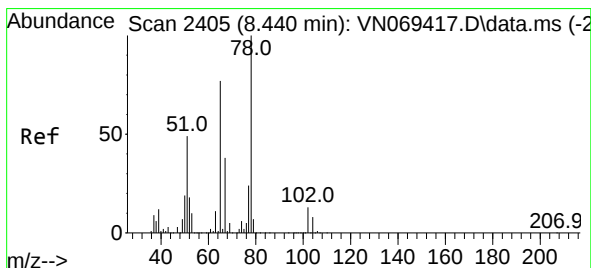
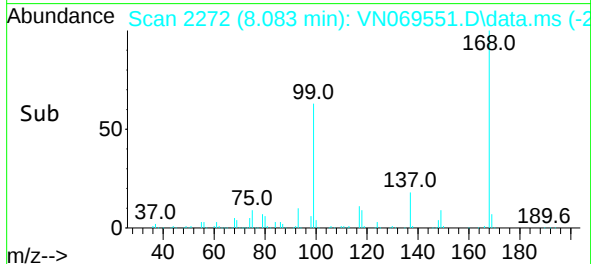
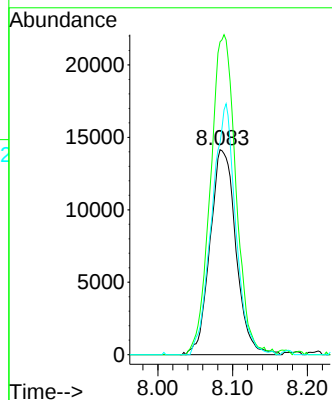


#31  
Cyclohexane  
Concen: 1.343 ug/l  
RT: 8.083 min Scan# 211  
Delta R.T. -0.011 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

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ClientSampleId :

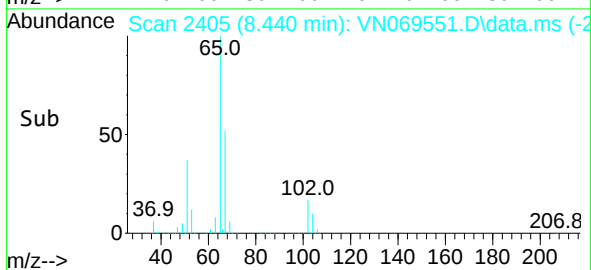
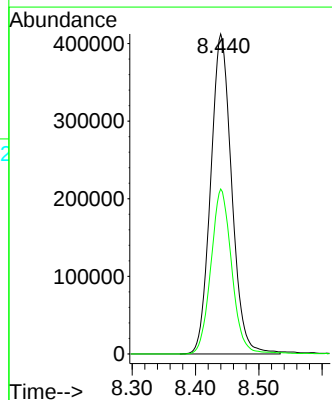
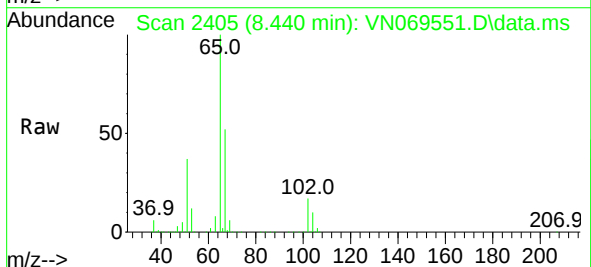


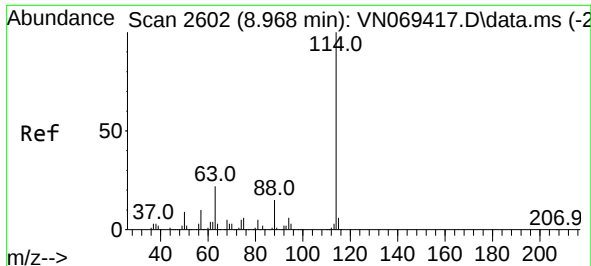
Tgt Ion: 56 Resp: 33910  
Ion Ratio Lower Upper  
56 100  
69 152.6 27.1 40.7#  
84 103.4 73.4 110.0



#33  
1,2-Dichloroethane-d4  
Concen: 51.452 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

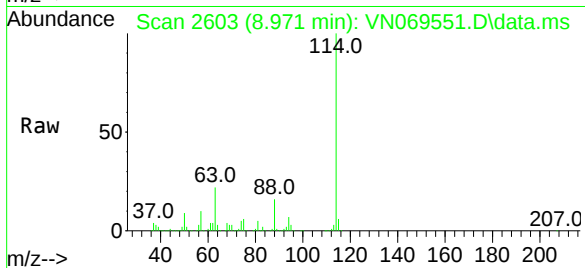
Tgt Ion: 65 Resp: 950891  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 103.0



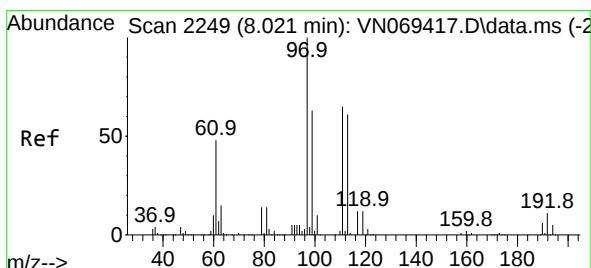
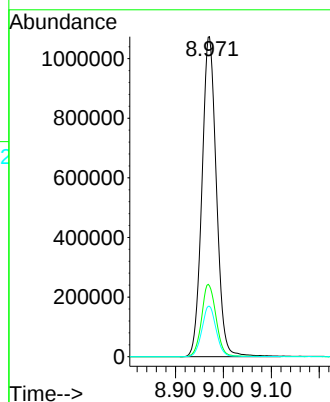
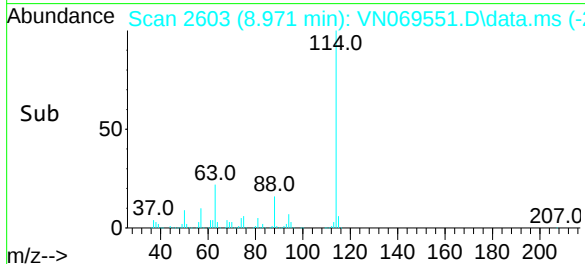


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

Instrument :  
MSVOA\_N  
ClientSampleId :

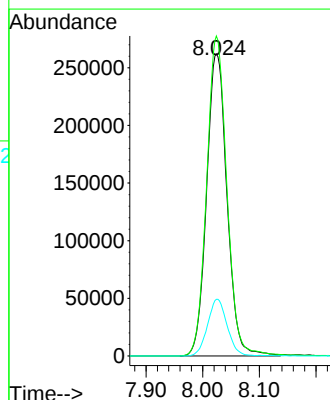
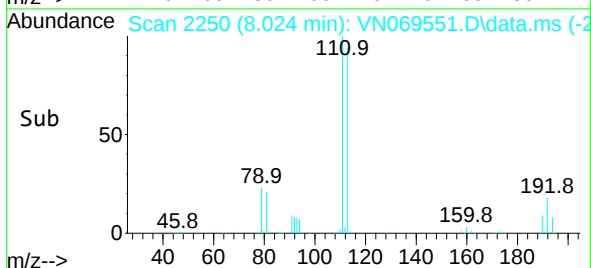
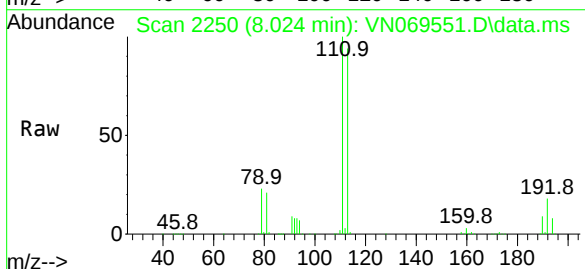


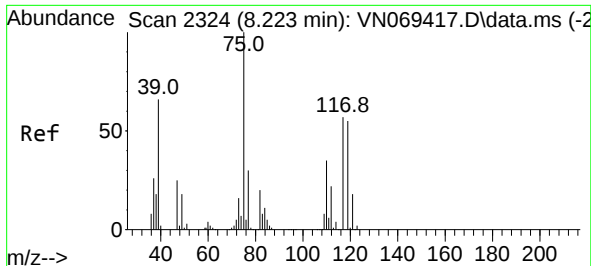
Tgt Ion:114 Resp: 2258749  
Ion Ratio Lower Upper  
114 100  
63 22.2 0.0 37.8  
88 15.8 0.0 27.4



#35  
Dibromofluoromethane  
Concen: 48.493 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

Tgt Ion:113 Resp: 656940  
Ion Ratio Lower Upper  
113 100  
111 104.8 82.2 123.2  
192 18.0 16.9 25.3

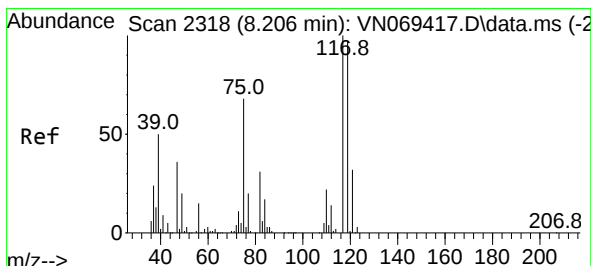
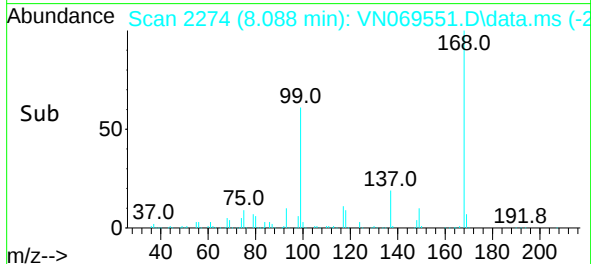
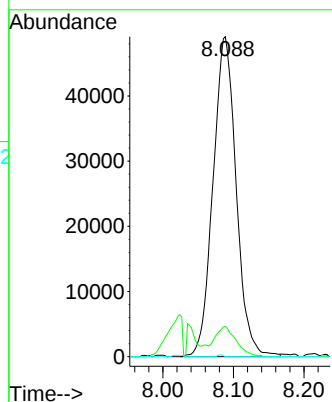
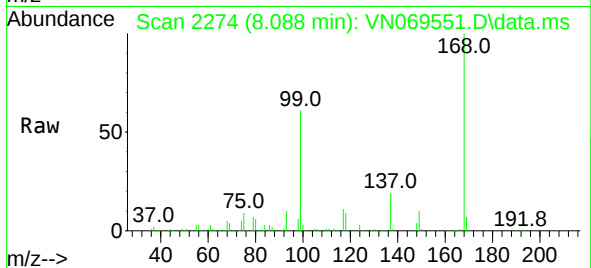




#36  
1,1-Dichloropropene  
Concen: 5.888 ug/l  
RT: 8.088 min Scan# 2119  
Delta R.T. -0.135 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

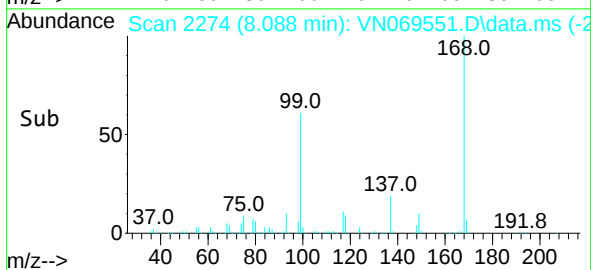
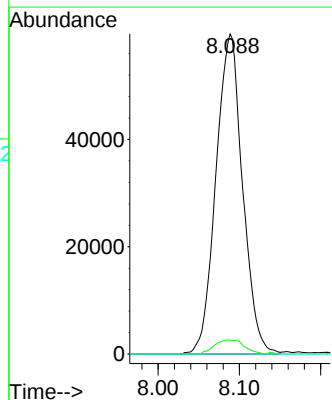
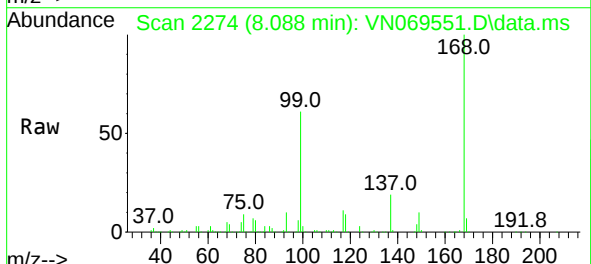
Instrument :  
MSVOA\_N  
ClientSampleId :

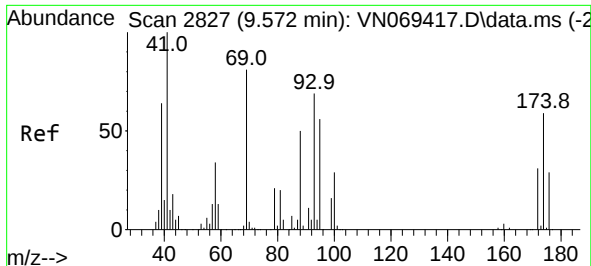
Tgt Ion: 75 Resp: 111914  
Ion Ratio Lower Upper  
75 100  
110 8.7 18.4 55.2#  
77 0.1 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 7.402 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.118 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

Tgt Ion: 117 Resp: 135822  
Ion Ratio Lower Upper  
117 100  
119 4.4 76.1 114.1#  
121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 39.641 ug/l

RT: 9.285 min Scan# 21

Delta R.T. -0.287 min

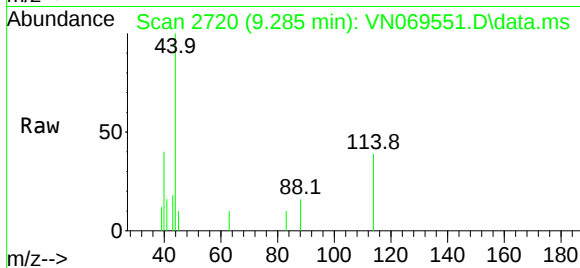
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Instrument :

MSVOA\_N

ClientSampleId :



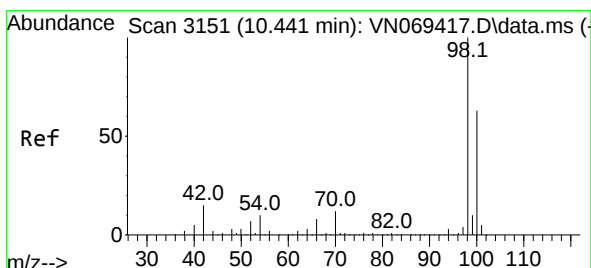
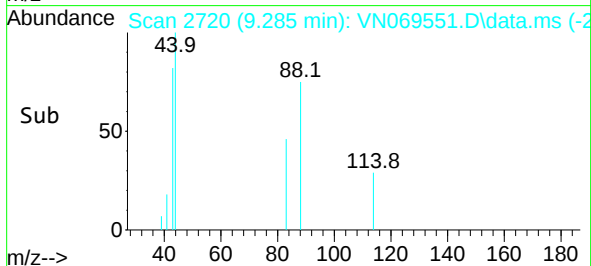
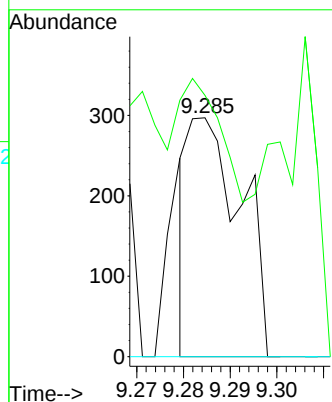
Tgt Ion: 88 Resp: 233

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.2#

58 0.0 50.6 75.8#



#50

Toluene-d8

Concen: 53.582 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.002 min

Lab File: VN069551.D

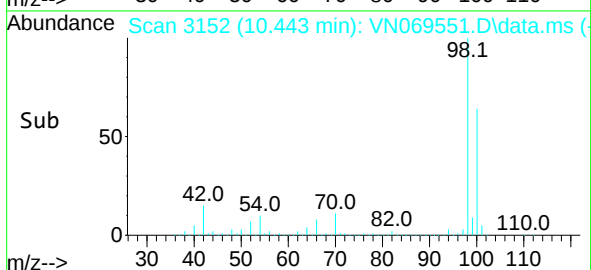
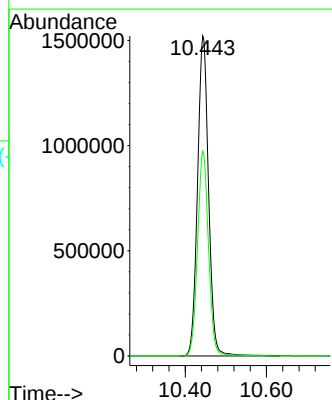
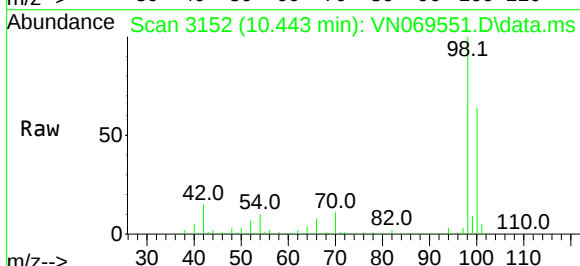
Acq: 18 Nov 2021 14:26

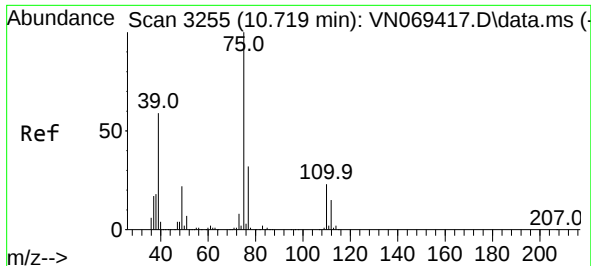
Tgt Ion: 98 Resp: 2854862

Ion Ratio Lower Upper

98 100

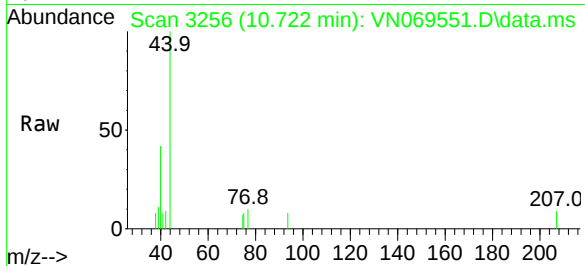
100 63.9 50.4 75.6



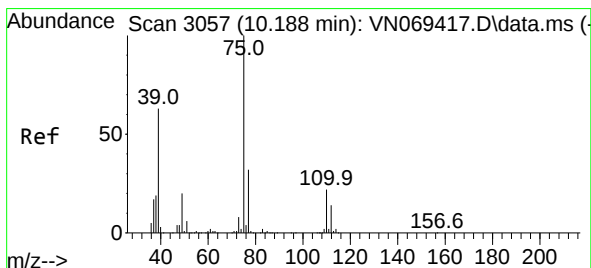
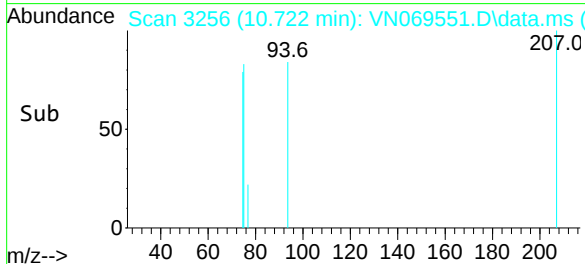
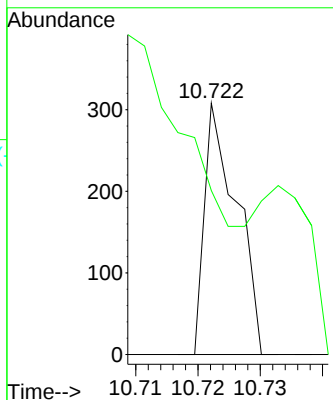


#53  
 t-1,3-Dichloropropene  
 Concen: 2.642 ug/l  
 RT: 10.722 min Scan# 31  
 Delta R.T. 0.003 min  
 Lab File: VN069551.D  
 Acq: 18 Nov 2021 14:26

Instrument :  
 MSVOA\_N  
 ClientSampleId :

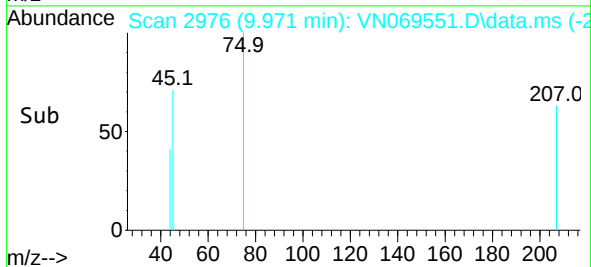
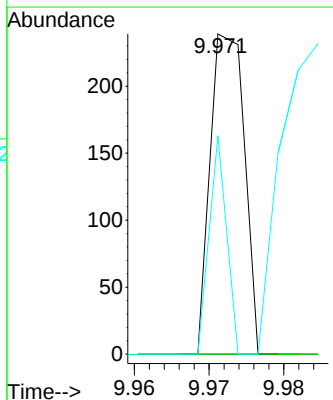
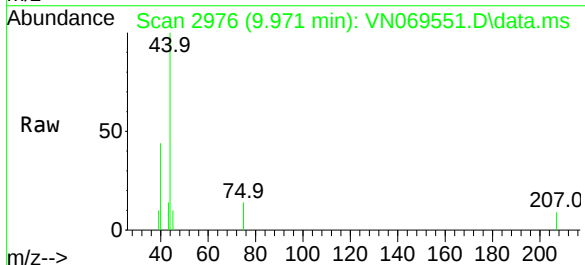


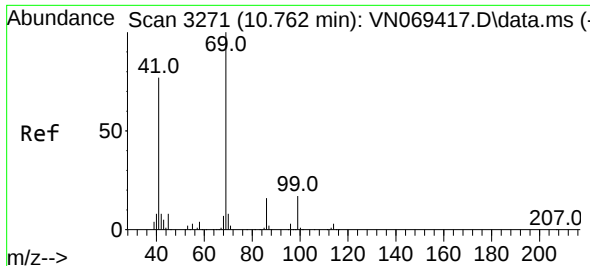
Tgt Ion: 75 Resp: 110  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.6 38.4#



#54  
 cis-1,3-Dichloropropene  
 Concen: 1.736 ug/l  
 RT: 9.971 min Scan# 2976  
 Delta R.T. -0.217 min  
 Lab File: VN069551.D  
 Acq: 18 Nov 2021 14:26

Tgt Ion: 75 Resp: 76  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 26.4 39.6#  
 39 68.2 42.5 63.7#

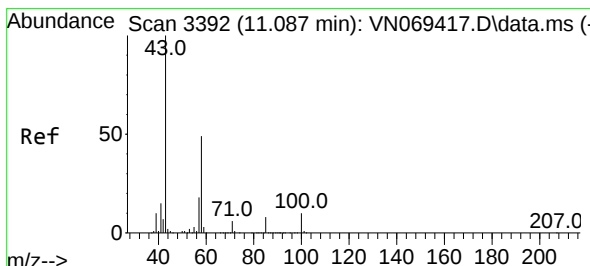
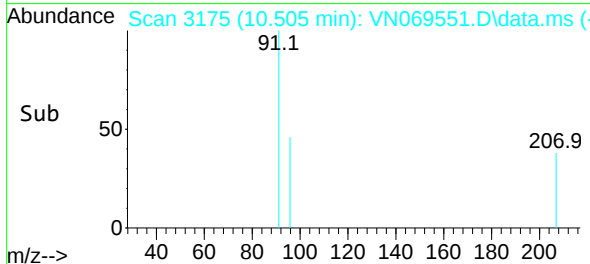
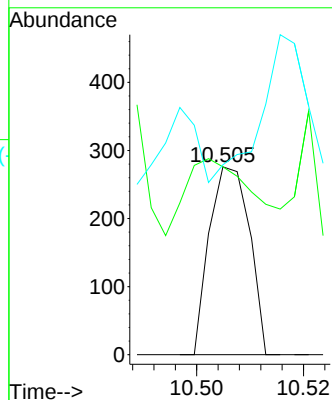
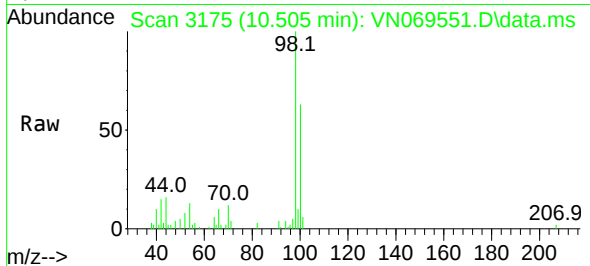




#56  
Ethyl methacrylate  
Concen: 2.058 ug/l  
RT: 10.505 min Scan# 31  
Delta R.T. -0.257 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

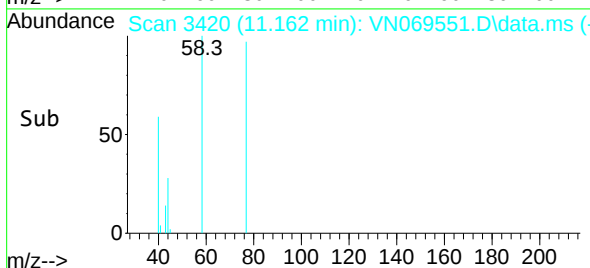
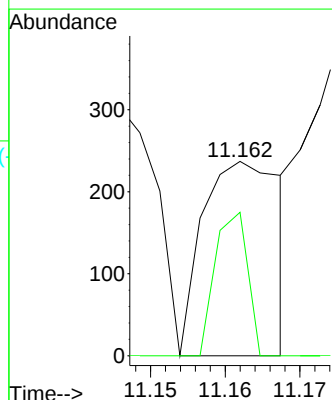
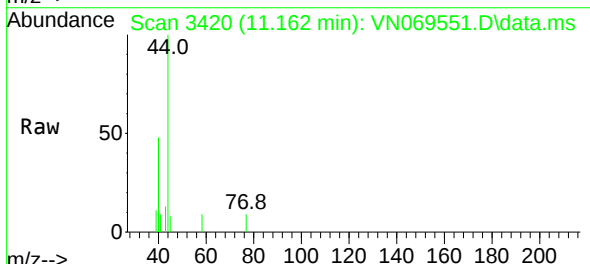
Instrument :  
MSVOA\_N  
ClientSampleId :

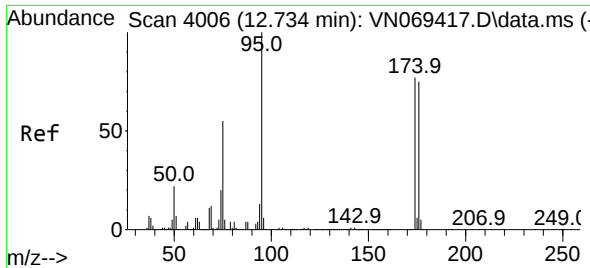
Tgt Ion: 69 Resp: 144  
Ion Ratio Lower Upper  
69 100  
41 67.4 51.4 77.0  
39 38.2 34.6 52.0



#59  
2-Hexanone  
Concen: 7.949 ug/l  
RT: 11.162 min Scan# 3420  
Delta R.T. 0.075 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

Tgt Ion: 43 Resp: 172  
Ion Ratio Lower Upper  
43 100  
58 30.8 26.9 80.7

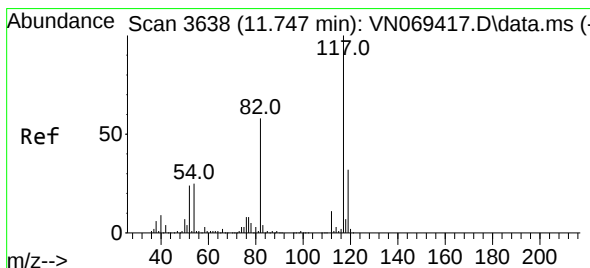
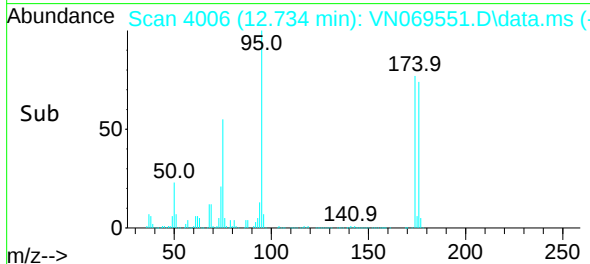
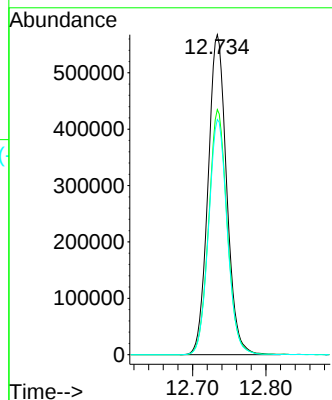
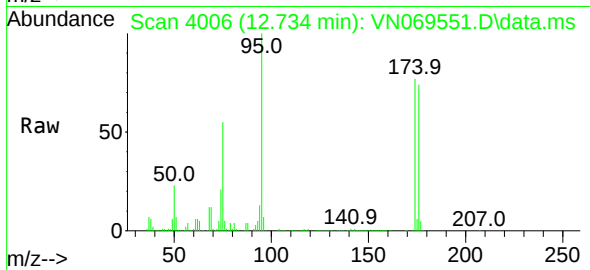




#62  
4-Bromofluorobenzene  
Concen: 51.063 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

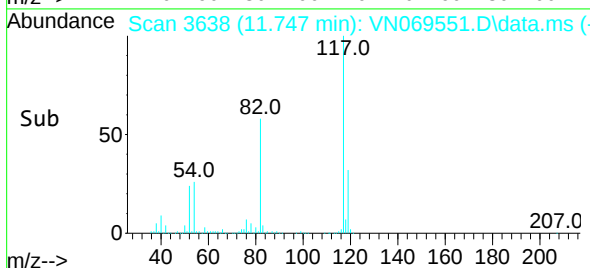
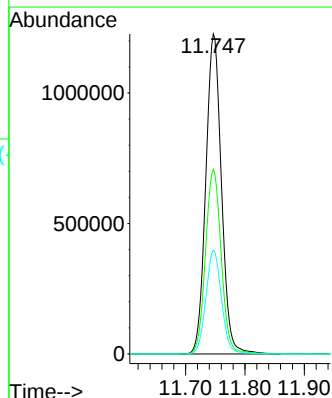
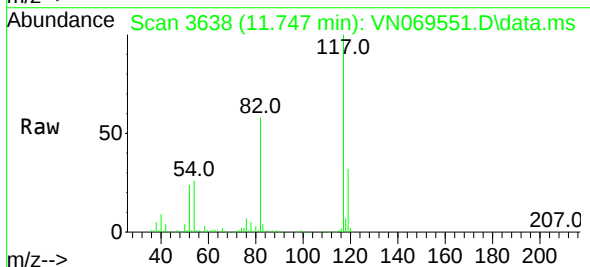
Instrument :  
MSVOA\_N  
ClientSampleId :

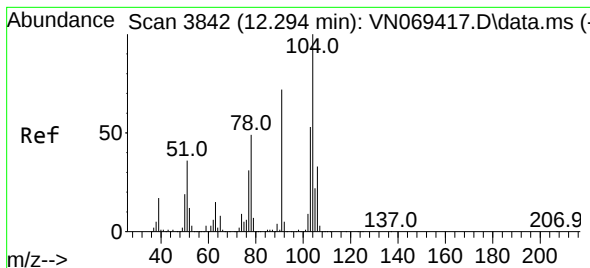
Tgt Ion: 95 Resp: 999469  
Ion Ratio Lower Upper  
95 100  
174 76.4 0.0 187.2  
176 73.9 0.0 181.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. -0.000 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

Tgt Ion: 117 Resp: 2240921  
Ion Ratio Lower Upper  
117 100  
82 57.7 42.4 63.6  
119 32.5 25.4 38.2





#70

Styrene

Concen: 1.530 ug/l

RT: 12.291 min Scan# 3841

Delta R.T. -0.003 min

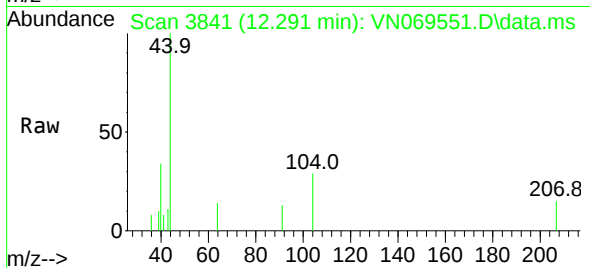
Lab File: VN069551.D

Acq: 18 Nov 2021 14:26

Instrument :

MSVOA\_N

ClientSampleId :



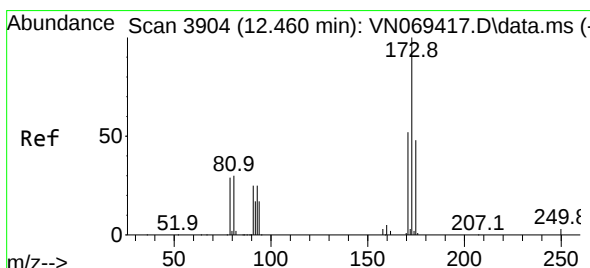
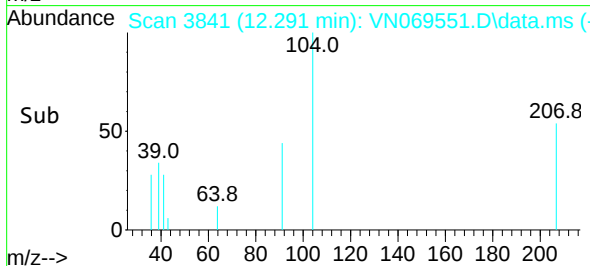
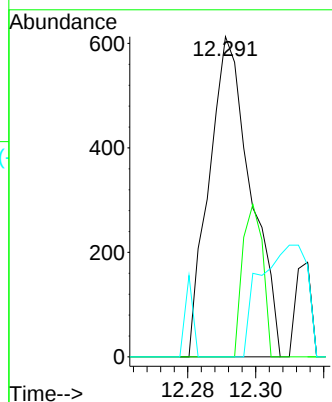
Tgt Ion:104 Resp: 523

Ion Ratio Lower Upper

104 100

78 22.9 38.7 58.1#

103 4.8 45.0 67.6#



#71

Bromoform

Concen: 3.460 ug/l

RT: 12.712 min Scan# 3998

Delta R.T. 0.252 min

Lab File: VN069551.D

Acq: 18 Nov 2021 14:26

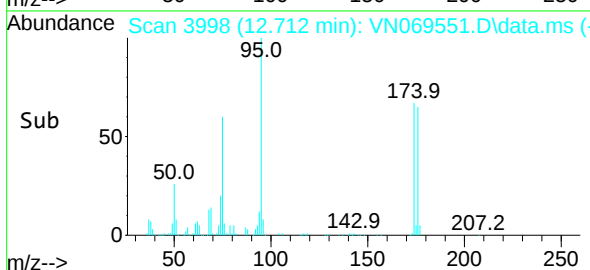
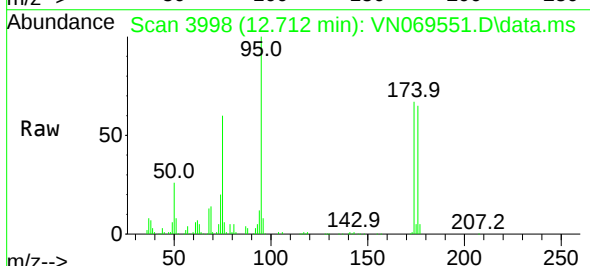
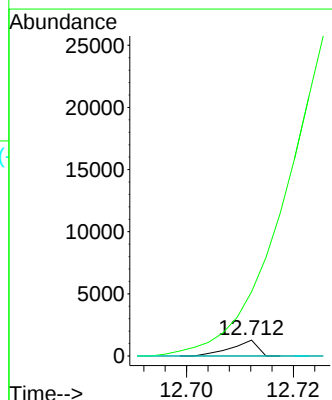
Tgt Ion:173 Resp: 435

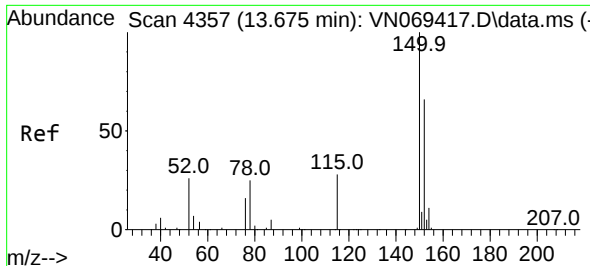
Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

254 0.0 0.0 0.0

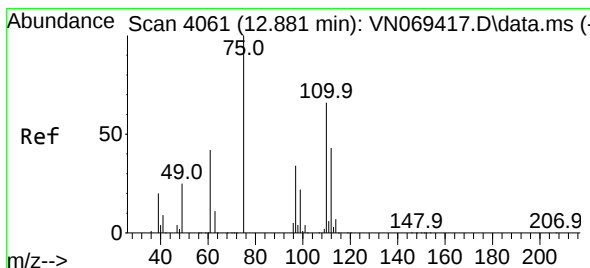
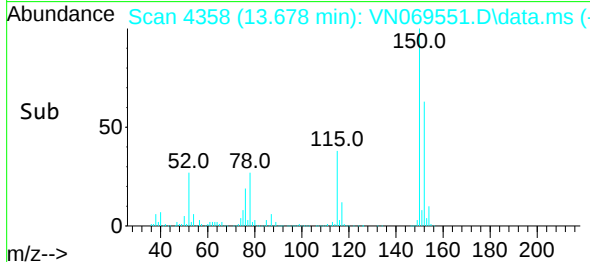
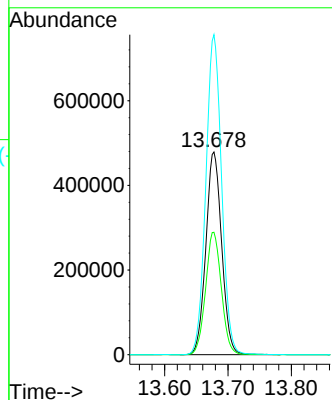
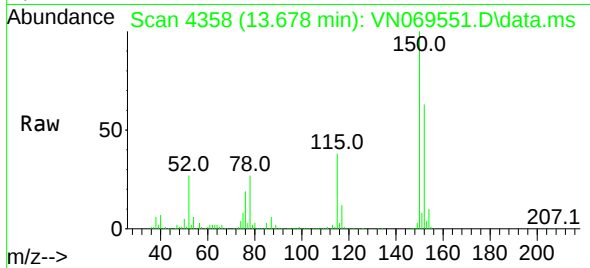




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.678 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VN069551.D  
 Acq: 18 Nov 2021 14:26

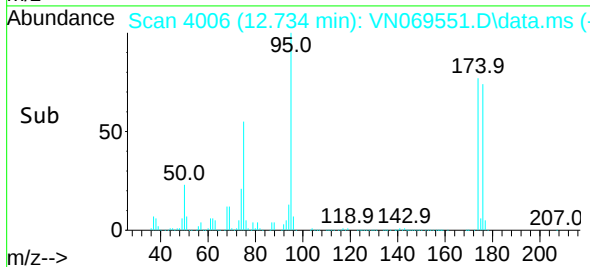
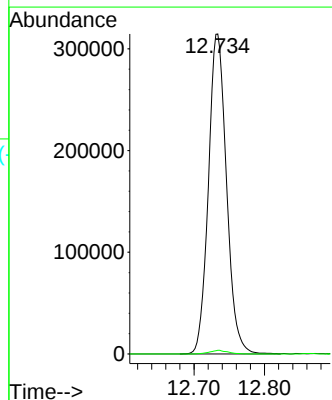
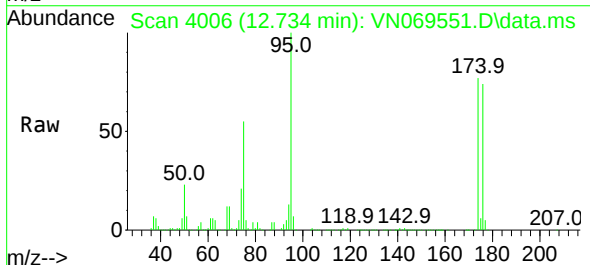
Instrument :  
 MSVOA\_N  
 ClientSampleId :

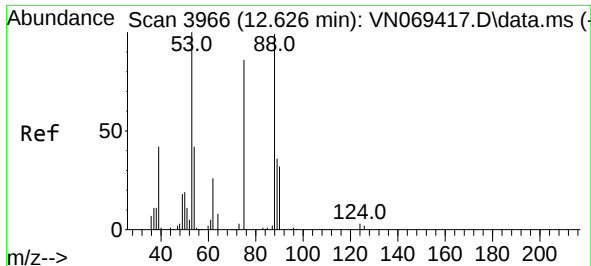
Tgt Ion:152 Resp: 830701  
 Ion Ratio Lower Upper  
 152 100  
 115 60.0 27.5 82.5  
 150 157.0 0.0 344.4



#76  
 1,2,3-Trichloropropane  
 Concen: 29.249 ug/l  
 RT: 12.734 min Scan# 4006  
 Delta R.T. -0.147 min  
 Lab File: VN069551.D  
 Acq: 18 Nov 2021 14:26

Tgt Ion: 75 Resp: 560731  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 82.6 247.8#

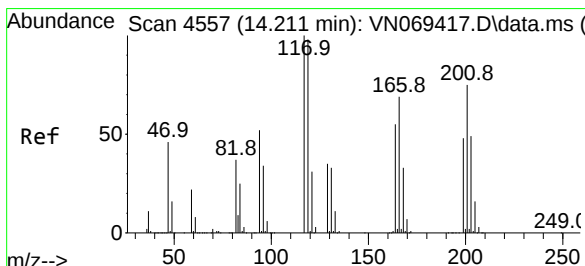
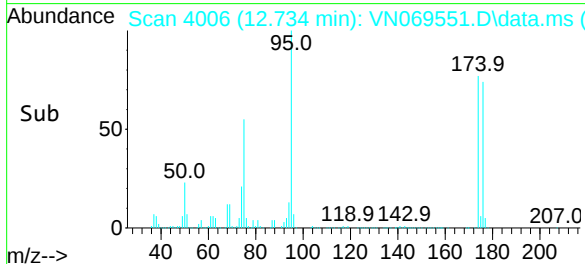
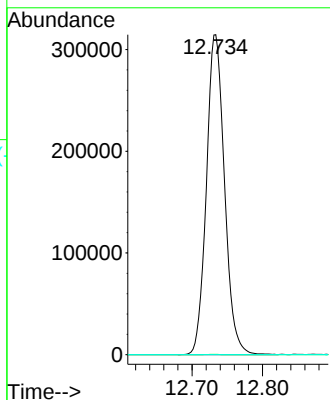
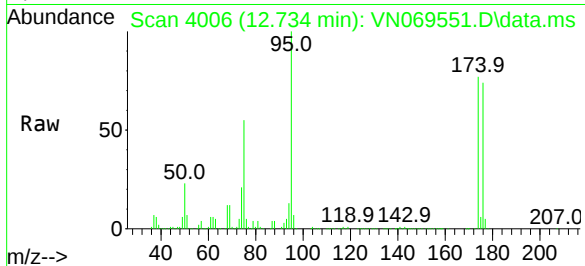




#81  
trans-1,4-Dichloro-2-butene  
Concen: 82.776 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.108 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

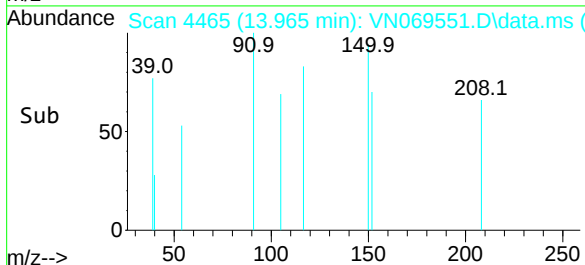
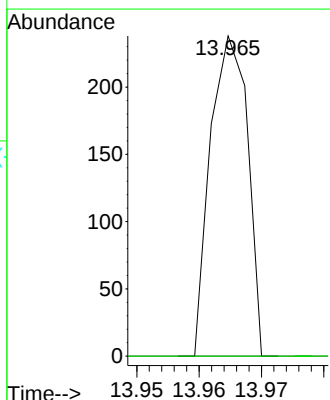
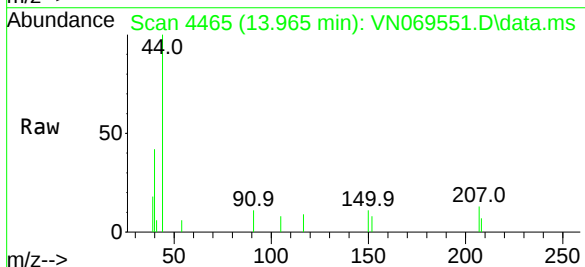
Instrument :  
MSVOA\_N  
ClientSampleId :

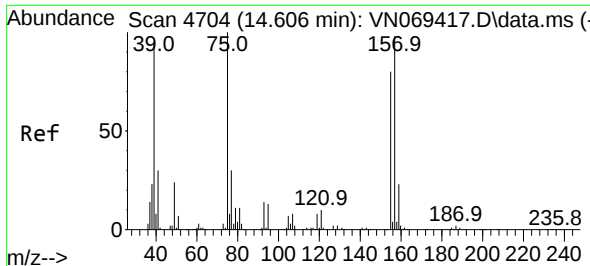
Tgt Ion: 75 Resp: 560731  
Ion Ratio Lower Upper  
75 100  
53 0.1 90.5 135.7#  
89 0.0 38.2 57.4#



#90  
Hexachloroethane  
Concen: 2.172 ug/l  
RT: 13.965 min Scan# 4465  
Delta R.T. -0.246 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

Tgt Ion: 117 Resp: 98  
Ion Ratio Lower Upper  
117 100  
201 0.0 43.9 131.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.810 ug/l

RT: 14.582 min Scan# 4

Delta R.T. -0.024 min

Lab File: VN069551.D

Acq: 18 Nov 2021 14:26

Instrument :

MSVOA\_N

ClientSampleId :

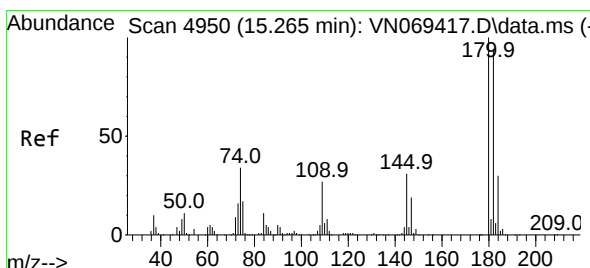
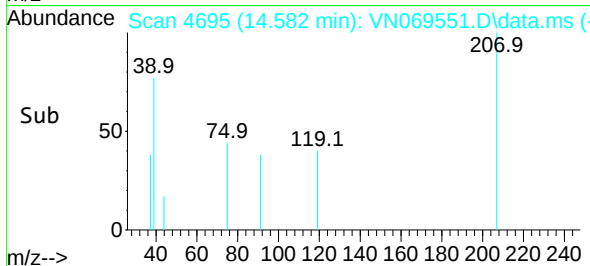
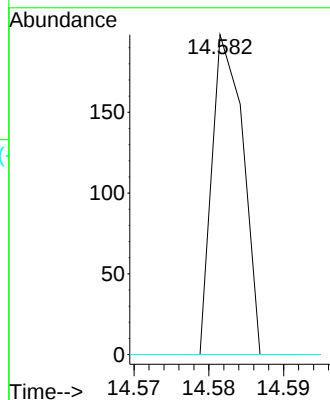
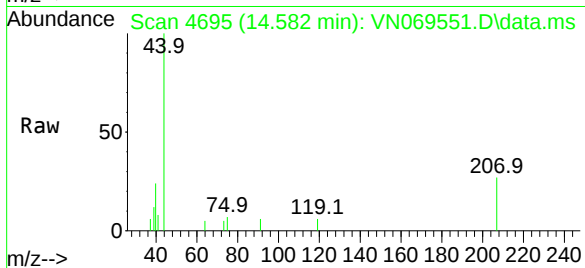
Tgt Ion: 75 Resp: 57

Ion Ratio Lower Upper

75 100

155 0.0 46.9 140.7#

157 0.0 60.6 181.7#



#93

1,2,4-Trichlorobenzene

Concen: 3.138 ug/l

RT: 15.257 min Scan# 4947

Delta R.T. -0.008 min

Lab File: VN069551.D

Acq: 18 Nov 2021 14:26

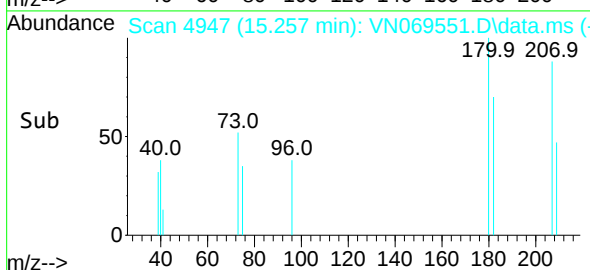
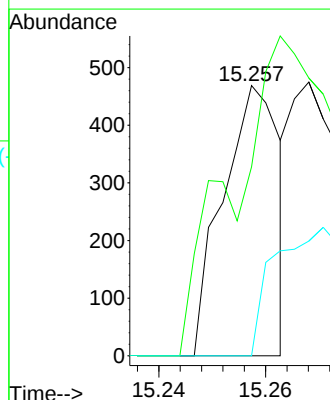
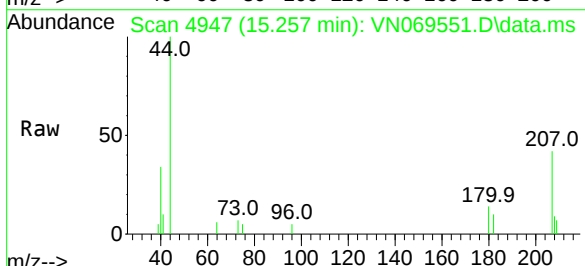
Tgt Ion:180 Resp: 344

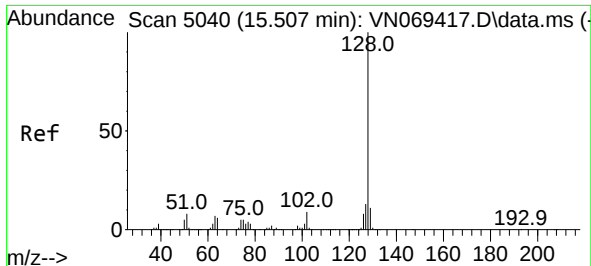
Ion Ratio Lower Upper

180 100

182 234.9 48.3 144.9#

145 53.8 14.5 43.5#

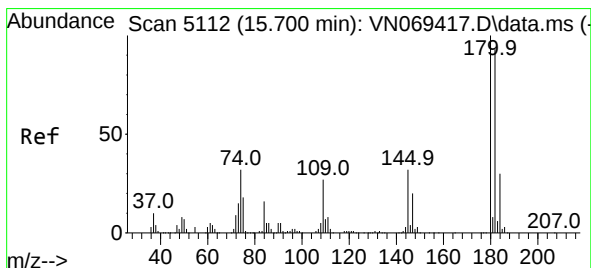
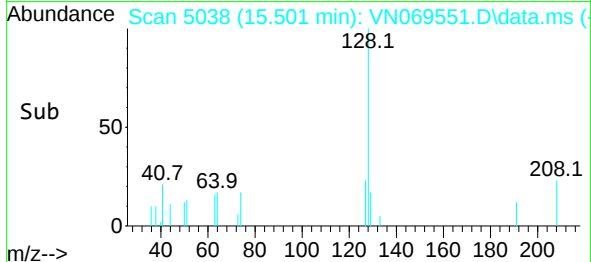
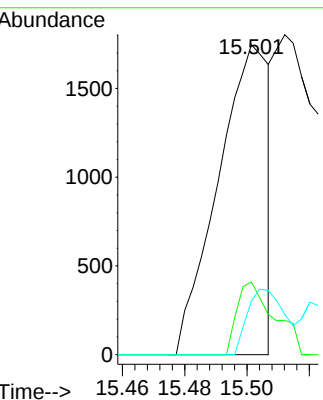
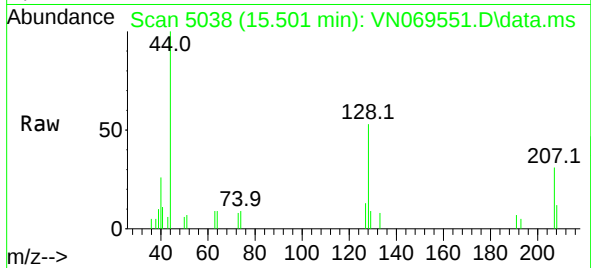




#95  
Naphthalene  
Concen: 4.500 ug/l  
RT: 15.501 min Scan# 5040  
Delta R.T. -0.006 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:128 Resp: 1971  
Ion Ratio Lower Upper  
128 100  
127 17.3 10.5 15.7#  
129 15.4 8.7 13.1#



#96  
1,2,3-Trichlorobenzene  
Concen: 3.259 ug/l  
RT: 15.708 min Scan# 5115  
Delta R.T. 0.008 min  
Lab File: VN069551.D  
Acq: 18 Nov 2021 14:26

Tgt Ion:180 Resp: 1200  
Ion Ratio Lower Upper  
180 100  
182 38.2 47.4 142.2#  
145 23.3 15.0 45.1

