

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071621\  
 Data File : VN067783.D  
 Acq On : 16 Jul 2021 19:25  
 Operator : JC/MD  
 Sample : M3051-09RE  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 17 05:00:12 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 07 16:18:53 2021  
 Response via : Initial Calibration

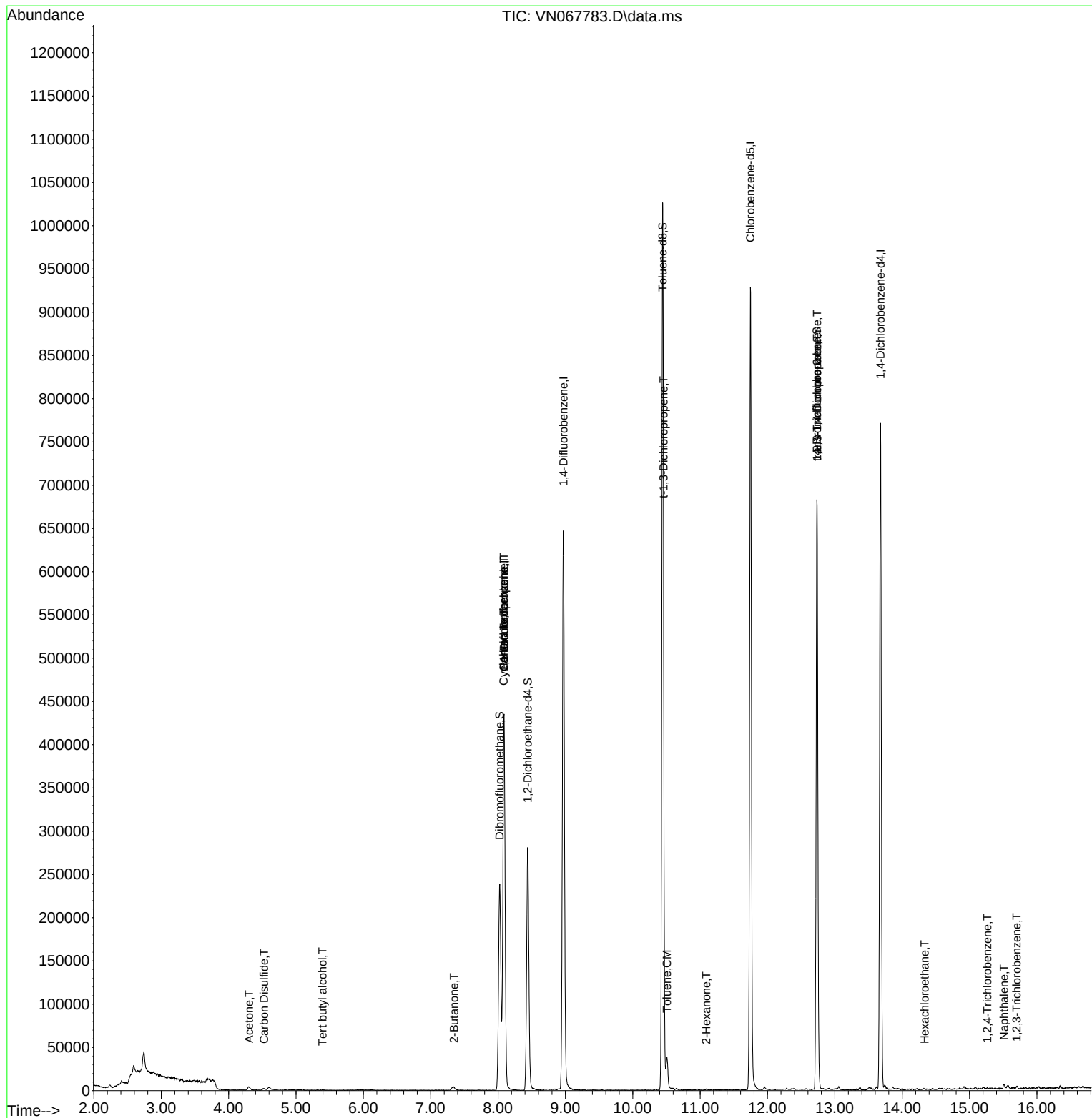
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.088          | 168  | 313146              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.971          | 114  | 575801              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.747         | 117  | 533273              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678         | 152  | 194445              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440          | 65   | 237120              | 50.104    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 100.200% |           |        |          |
| 35) Dibromofluoromethane      | 8.024          | 113  | 176683              | 50.788    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 101.580% |           |        |          |
| 50) Toluene-d8                | 10.443         | 98   | 724167              | 49.731    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 99.460%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.734         | 95   | 236318              | 45.941    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 91.880%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 5) Bromomethane               | 2.829          | 94   | 126                 | Below Cal | #      | 4        |
| 6) Chloroethane               | 3.105          | 64   | 362                 | Below Cal | #      | 88       |
| 11) Tert butyl alcohol        | 5.393          | 59   | 284                 | 0.418     | ug/l # | 71       |
| 13) Acrolein                  | 4.033          | 56   | 222                 | Below Cal |        | 90       |
| 16) Acetone                   | 4.301          | 43   | 7156                | 4.805     | ug/l   | 95       |
| 17) Carbon Disulfide          | 4.527          | 76   | 2253                | 0.292     | ug/l # | 74       |
| 20) Methylene Chloride        | 5.095          | 84   | 346                 | Below Cal | #      | 32       |
| 25) 2-Butanone                | 7.345          | 43   | 652                 | 0.264     | ug/l # | 51       |
| 31) Cyclohexane               | 8.083          | 56   | 8098                | 1.220     | ug/l # | 16       |
| 36) 1,1-Dichloropropene       | 8.086          | 75   | 28906               | 5.404     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 8.086          | 117  | 34998               | 6.634     | ug/l # | 17       |
| 52) Toluene                   | 10.508         | 92   | 13538               | 1.291     | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.457         | 75   | 106                 | 1.760     | ug/l # | 1        |
| 59) 2-Hexanone                | 11.092         | 43   | 1100                | 0.281     | ug/l # | 46       |
| 76) 1,2,3-Trichloropropane    | 12.736         | 75   | 133705              | 33.671    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.736         | 75   | 133705              | 108.559   | ug/l # | 6        |
| 90) Hexachloroethane          | 14.332         | 117  | 451                 | 0.224     | ug/l # | 16       |
| 93) 1,2,4-Trichlorobenzene    | 15.265         | 180  | 399                 | 2.791     | ug/l   | 67       |
| 95) Naphthalene               | 15.509         | 128  | 4362                | 3.443     | ug/l # | 88       |
| 96) 1,2,3-Trichlorobenzene    | 15.700         | 180  | 610                 | 2.819     | ug/l   | 71       |
| -----                         |                |      |                     |           |        |          |

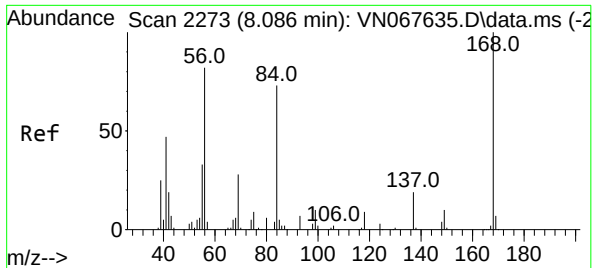
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Jul 17 05:00:12 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 07 16:18:53 2021  
Response via : Initial Calibration

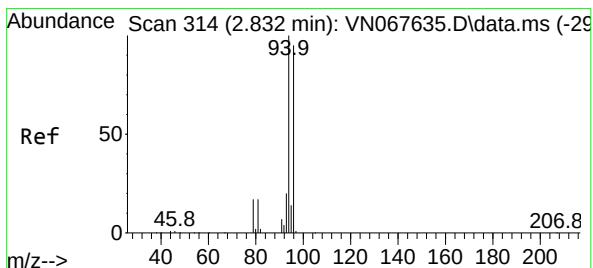
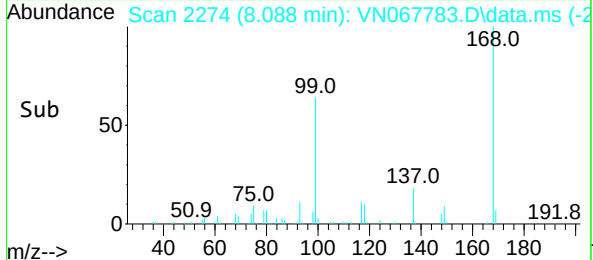
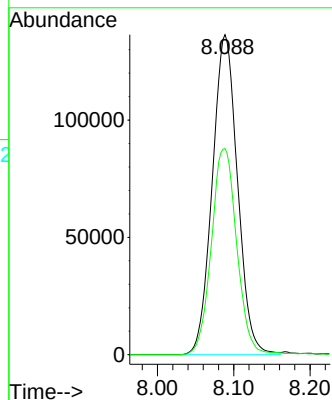
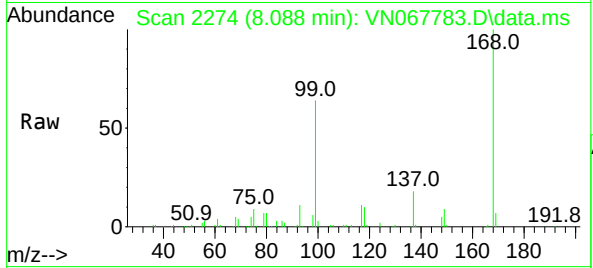




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.002 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

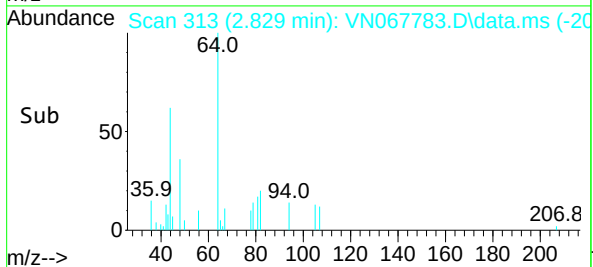
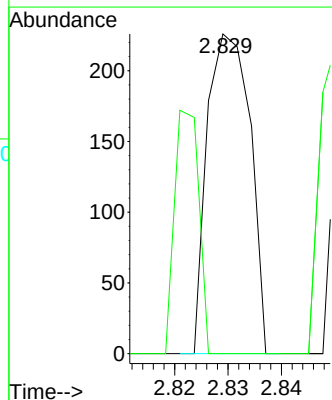
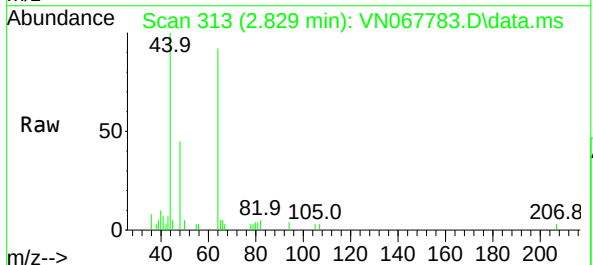
Instrument :  
MSVOA\_N  
ClientSampled :

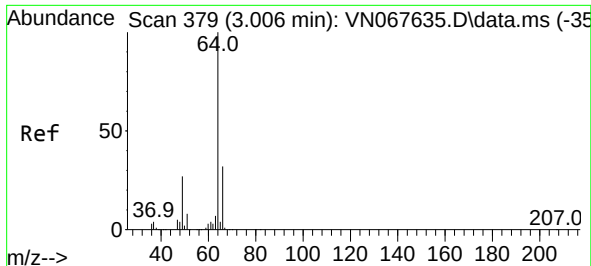
Tgt Ion:168 Resp: 313146  
Ion Ratio Lower Upper  
168 100  
99 64.4 62.9 94.3



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.829 min Scan# 313  
Delta R.T. -0.003 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Tgt Ion: 94 Resp: 126  
Ion Ratio Lower Upper  
94 100  
96 0.0 73.7 110.5#

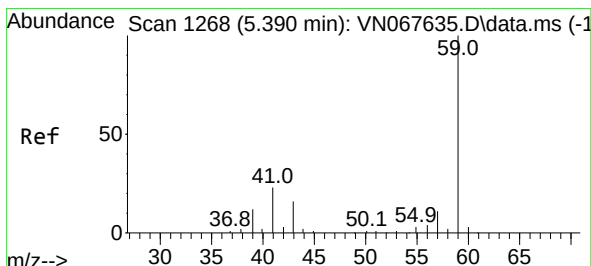
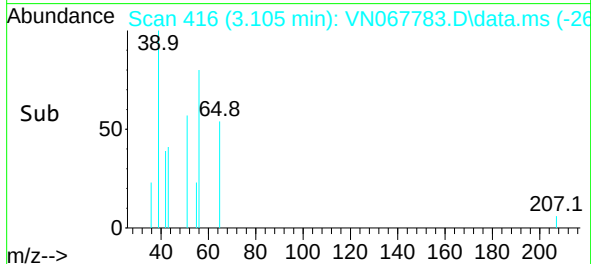
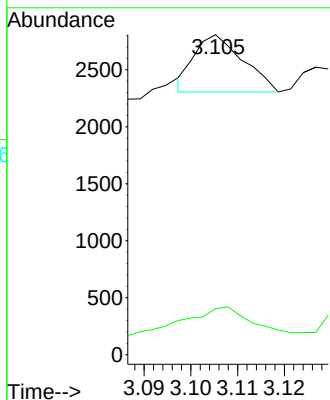
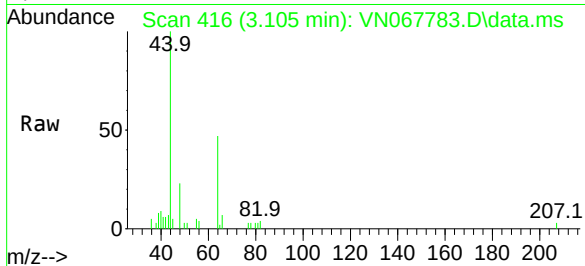




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.105 min Scan# 416  
Delta R.T. 0.099 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

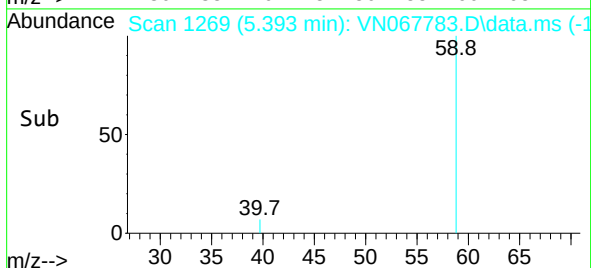
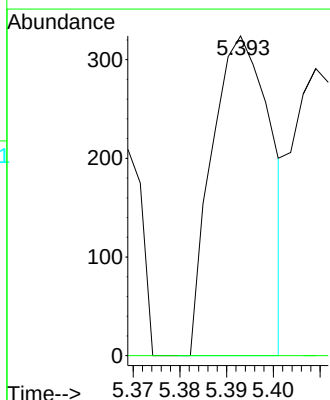
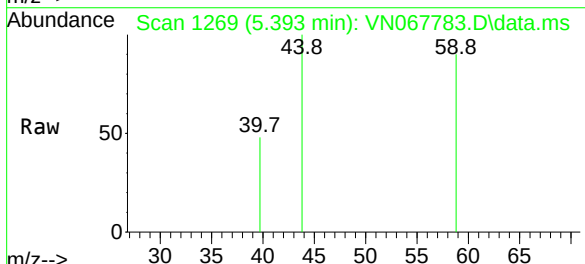
Instrument :  
MSVOA\_N  
ClientSampled :

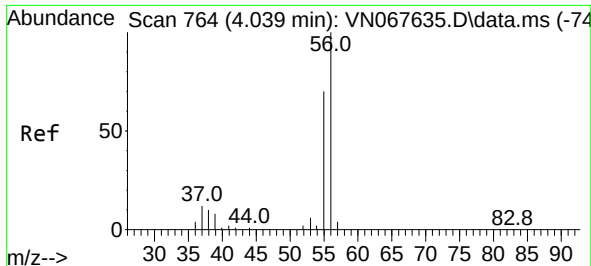
Tgt Ion: 64 Resp: 362  
Ion Ratio Lower Upper  
64 100  
66 37.4 24.7 37.1#



#11  
Tert butyl alcohol  
Concen: 0.418 ug/l  
RT: 5.393 min Scan# 1269  
Delta R.T. 0.003 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Tgt Ion: 59 Resp: 284  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#

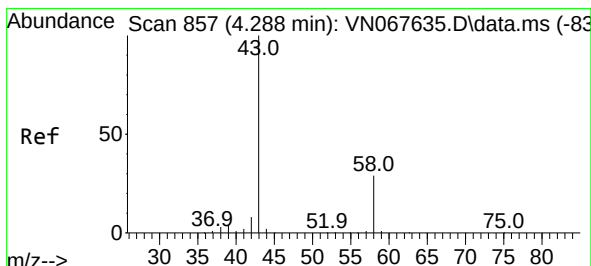
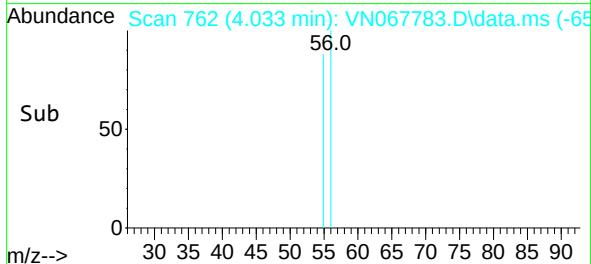
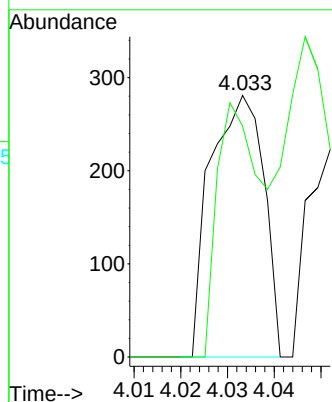
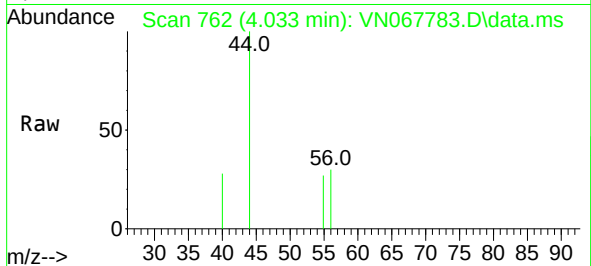




#13  
Acrolein  
Concen: Below Cal  
RT: 4.033 min Scan# 762  
Delta R.T. -0.006 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

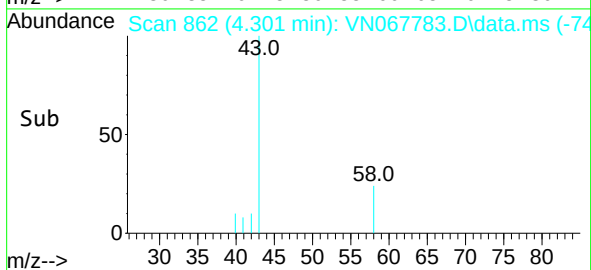
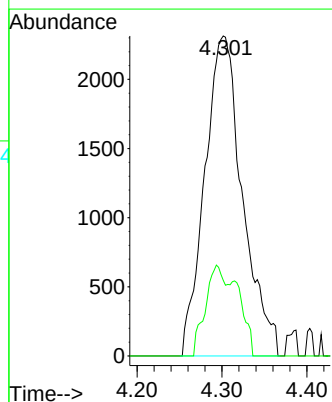
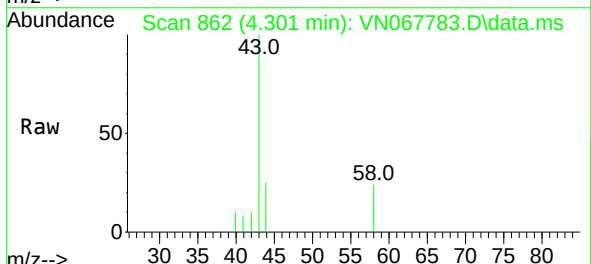
Instrument :  
MSVOA\_N  
ClientSampled :

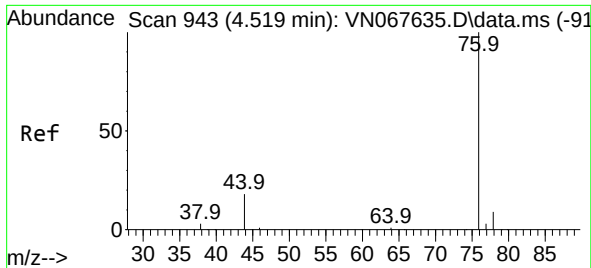
Tgt Ion: 56 Resp: 222  
Ion Ratio Lower Upper  
56 100  
55 79.7 57.4 86.0



#16  
Acetone  
Concen: 4.805 ug/l  
RT: 4.301 min Scan# 862  
Delta R.T. 0.013 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Tgt Ion: 43 Resp: 7156  
Ion Ratio Lower Upper  
43 100  
58 23.7 21.2 31.8

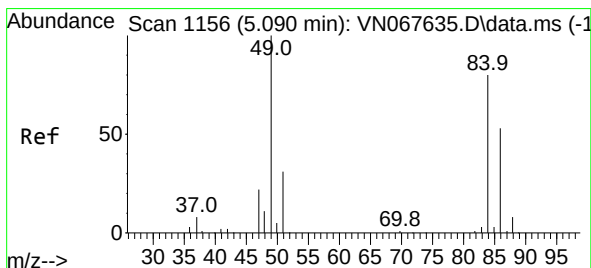
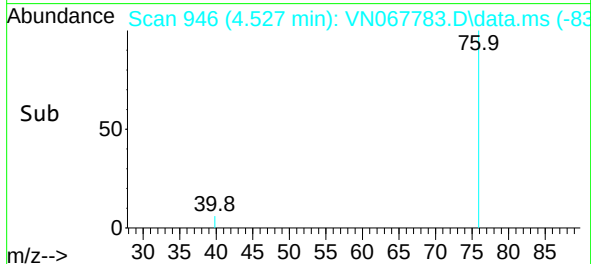
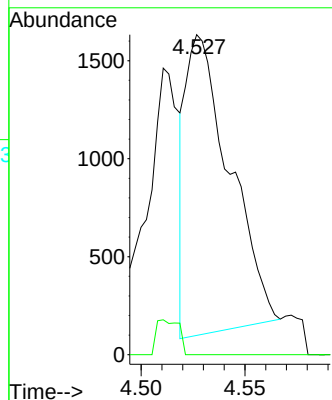
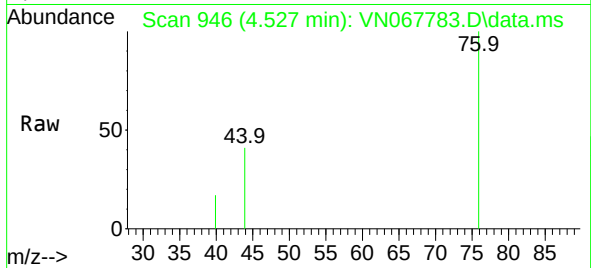




#17  
Carbon Disulfide  
Concen: 0.292 ug/l  
RT: 4.527 min Scan# 946  
Delta R.T. 0.008 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

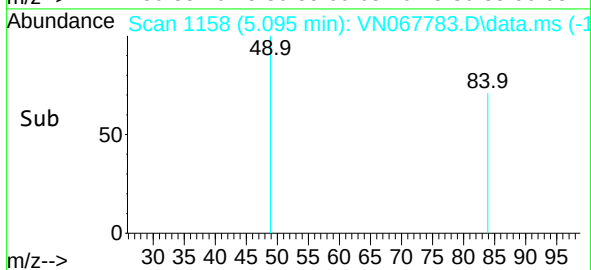
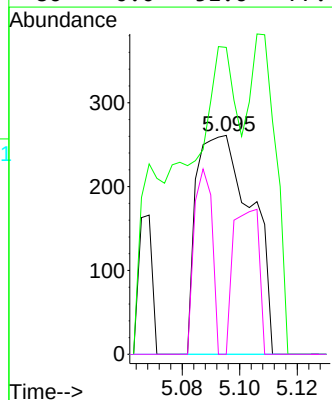
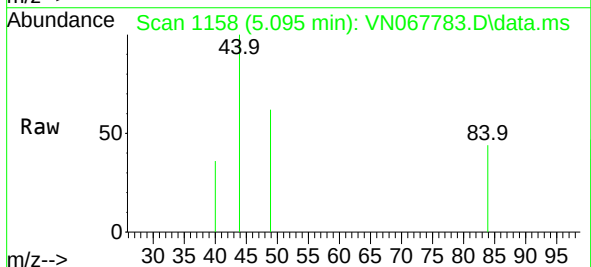
Instrument :  
MSVOA\_N  
ClientSampled :

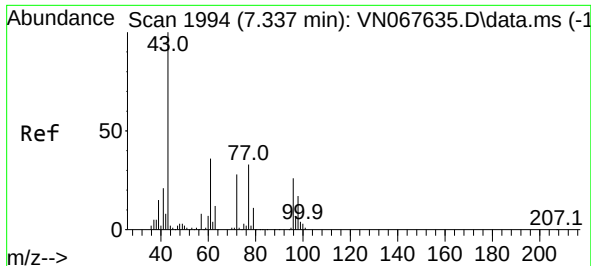
Tgt Ion: 76 Resp: 2253  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.7 11.5#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.095 min Scan# 1158  
Delta R.T. 0.005 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Tgt Ion: 84 Resp: 346  
Ion Ratio Lower Upper  
84 100  
49 63.6 110.9 166.3#  
51 0.0 32.6 49.0#  
86 0.0 51.6 77.4#

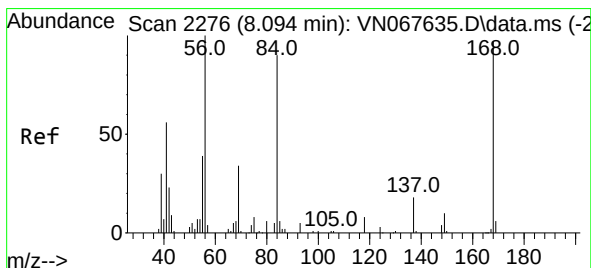
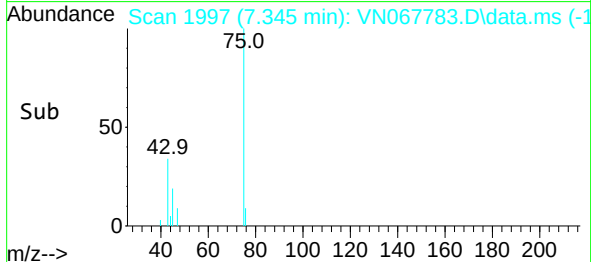
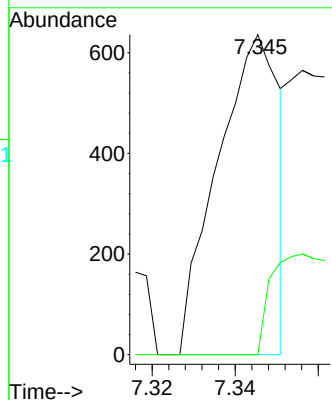
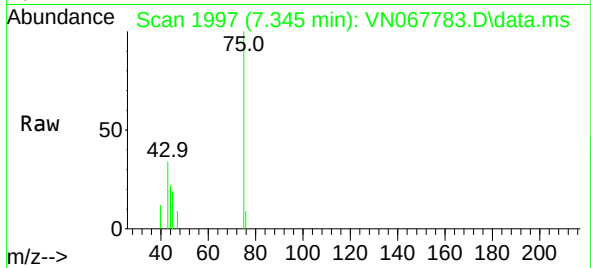




#25  
2-Butanone  
Concen: 0.264 ug/l  
RT: 7.345 min Scan# 1997  
Delta R.T. 0.008 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

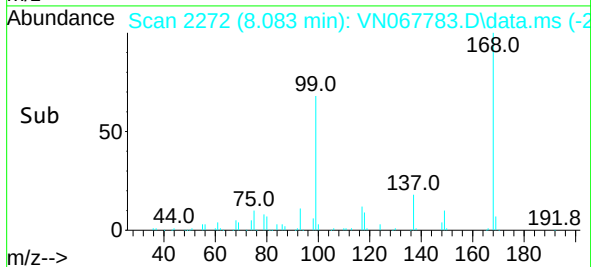
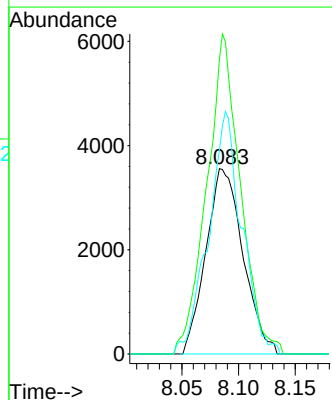
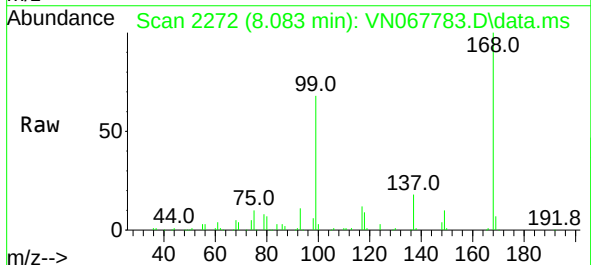
Instrument :  
MSVOA\_N  
ClientSampled :

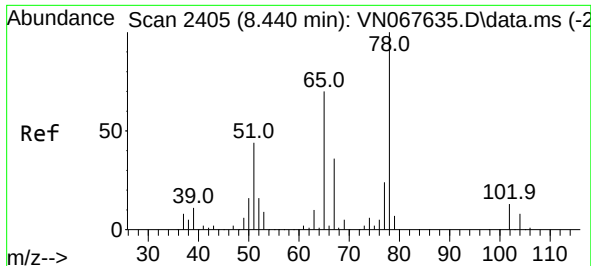
Tgt Ion: 43 Resp: 652  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.7 29.5#



#31  
Cyclohexane  
Concen: 1.220 ug/l  
RT: 8.083 min Scan# 2272  
Delta R.T. -0.011 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Tgt Ion: 56 Resp: 8098  
Ion Ratio Lower Upper  
56 100  
69 153.7 27.3 40.9#  
84 109.9 64.9 97.3#



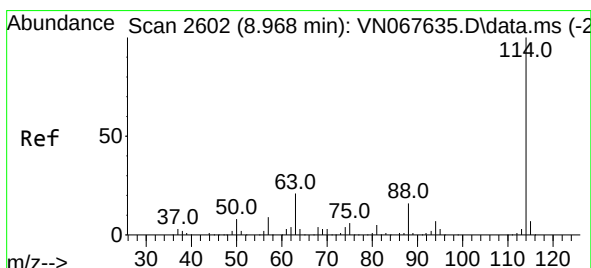
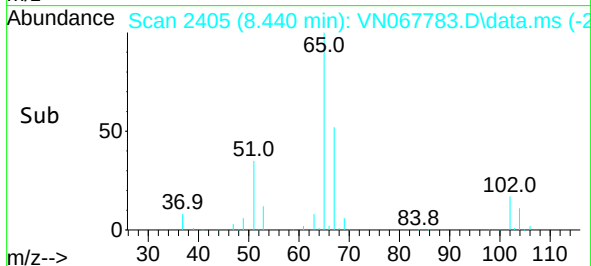
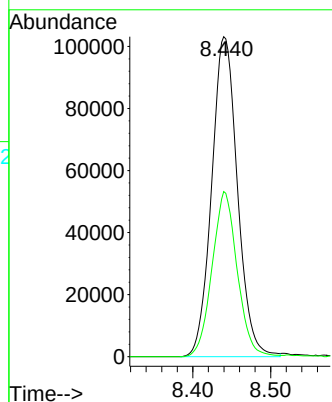
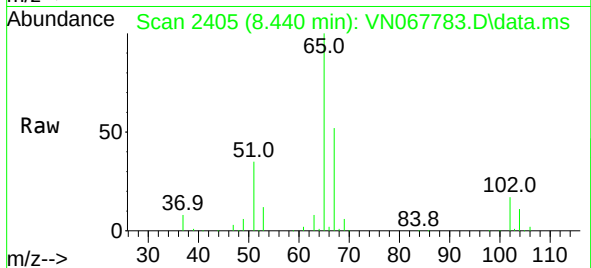


#33

1,2-Dichloroethane-d4  
Concen: 50.104 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Instrument :  
MSVOA\_N  
ClientSampled :

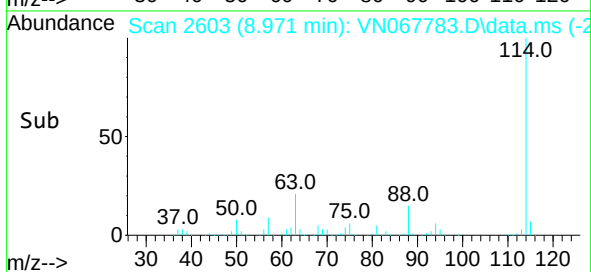
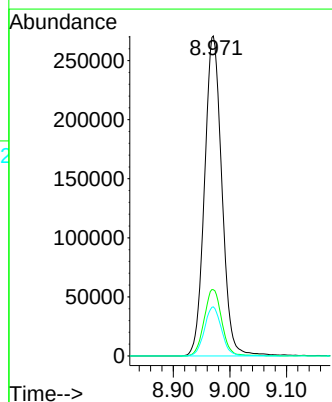
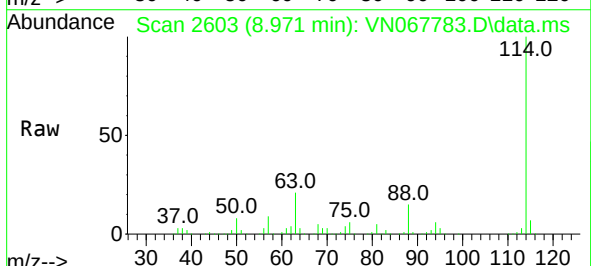
Tgt Ion: 65 Resp: 237120  
Ion Ratio Lower Upper  
65 100  
67 50.2 0.0 98.6



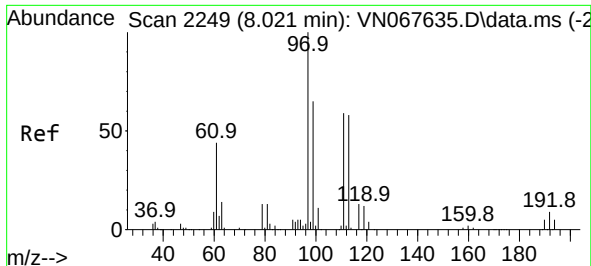
#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Tgt Ion: 114 Resp: 575801  
Ion Ratio Lower Upper  
114 100  
63 20.7 0.0 49.0  
88 15.4 0.0 36.6







#35

Dibromofluoromethane

Concen: 50.788 ug/l

RT: 8.024 min Scan# 2250

Delta R.T. 0.003 min

Lab File: VN067783.D

Acq: 16 Jul 2021 19:25

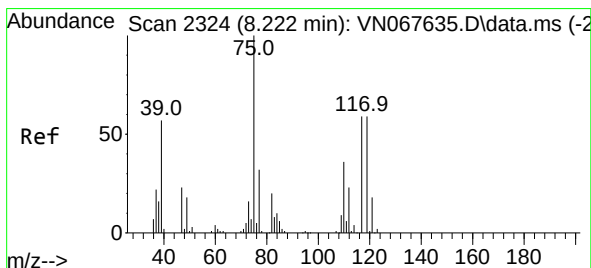
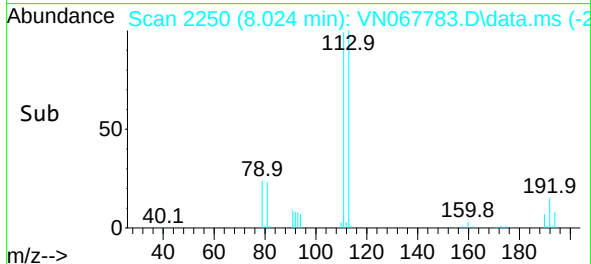
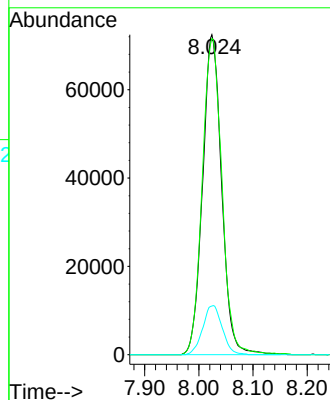
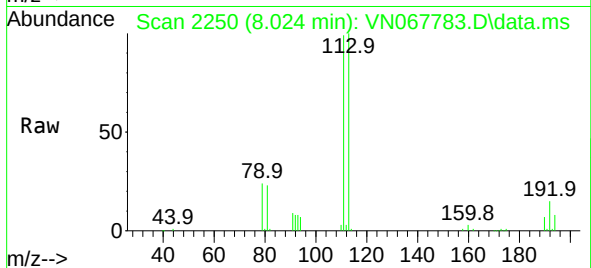
Tgt Ion: 113 Resp: 176683

Ion Ratio Lower Upper

113 100

111 101.4 83.8 125.8

192 15.8 13.4 20.0



#36

1,1-Dichloropropene

Concen: 5.404 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.136 min

Lab File: VN067783.D

Acq: 16 Jul 2021 19:25

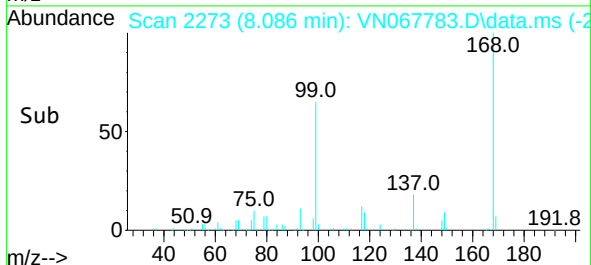
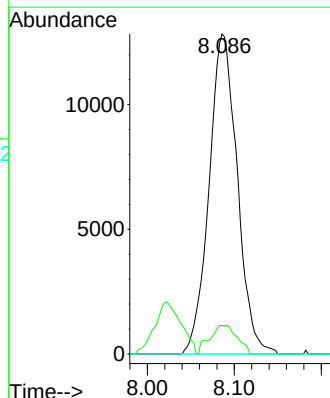
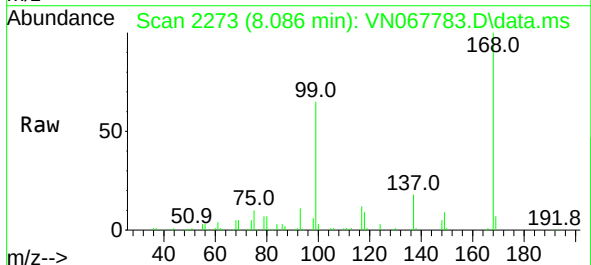
Tgt Ion: 75 Resp: 28906

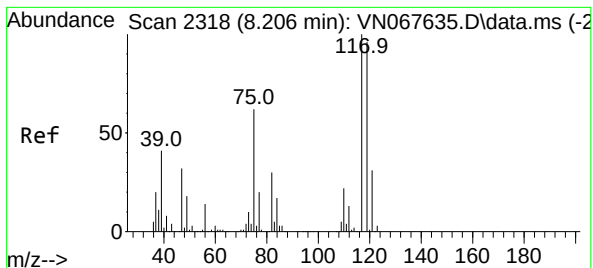
Ion Ratio Lower Upper

75 100

110 8.7 15.7 47.0#

77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 6.634 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.120 min

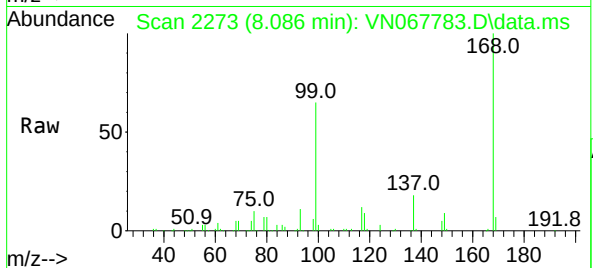
Lab File: VN067783.D

Acq: 16 Jul 2021 19:25

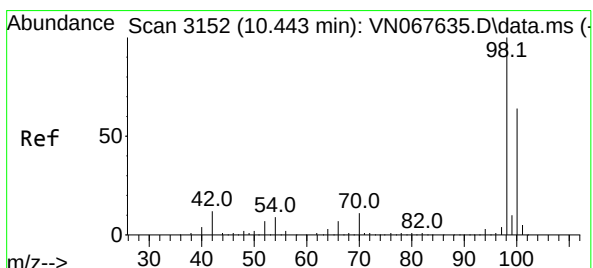
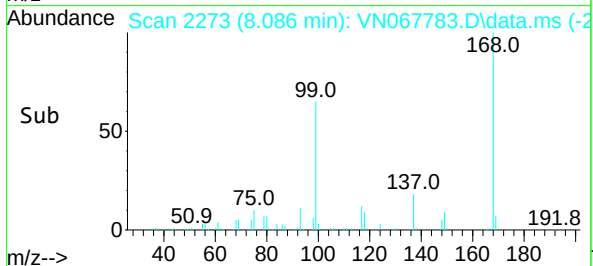
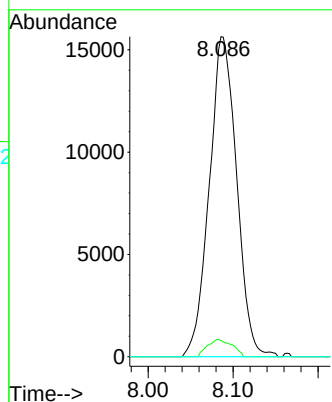
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 34998  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.0   | 75.4  | 113.2# |
| 121      | 0.0   | 23.5  | 35.3#  |



#50

Toluene-d8

Concen: 49.731 ug/l

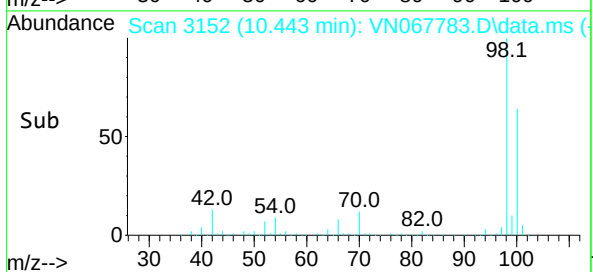
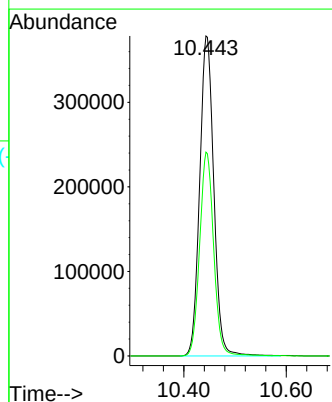
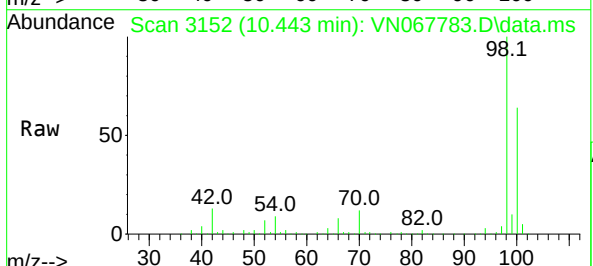
RT: 10.443 min Scan# 3152

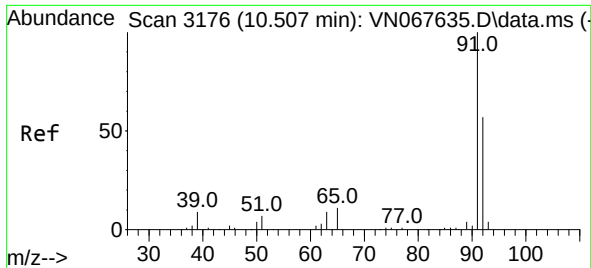
Delta R.T. 0.000 min

Lab File: VN067783.D

Acq: 16 Jul 2021 19:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 724167 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 63.4  | 51.7  | 77.5   |

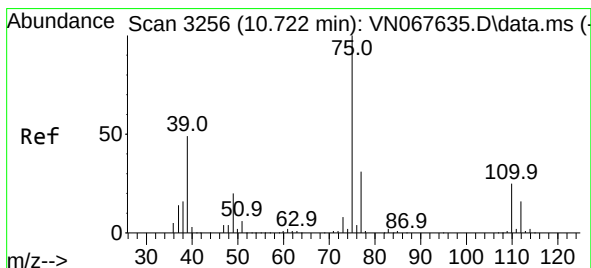
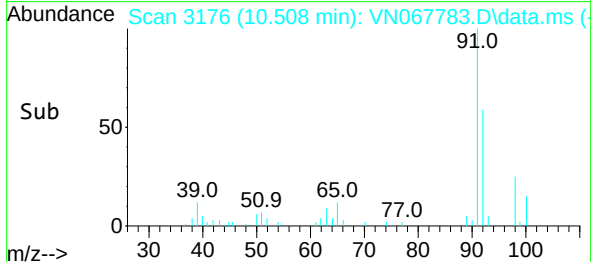
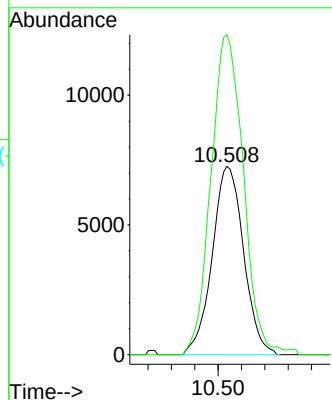
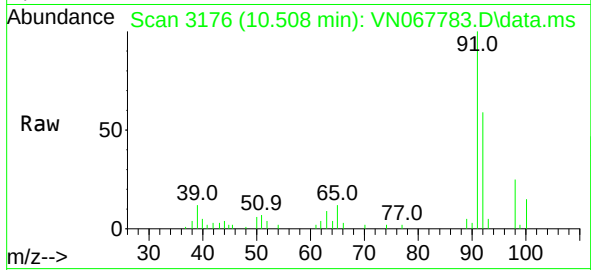




#52  
Toluene  
Concen: 1.291 ug/l  
RT: 10.508 min Scan# 3176  
Delta R.T. 0.001 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

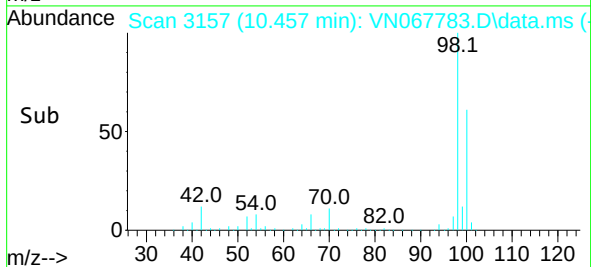
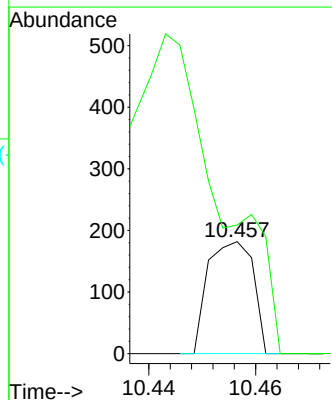
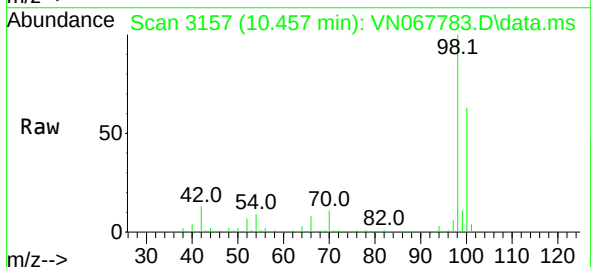
Instrument :  
MSVOA\_N  
ClientSampled :

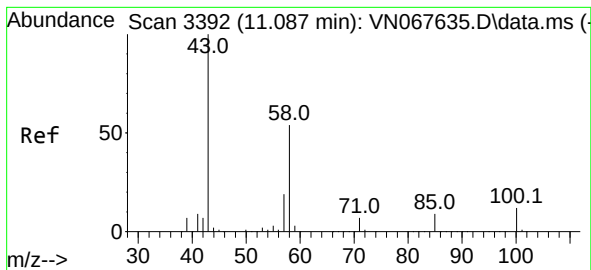
Tgt Ion: 92 Resp: 13538  
Ion Ratio Lower Upper  
92 100  
91 175.1 139.6 209.4



#53  
t-1,3-Dichloropropene  
Concen: 1.760 ug/l  
RT: 10.457 min Scan# 3157  
Delta R.T. -0.265 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Tgt Ion: 75 Resp: 106  
Ion Ratio Lower Upper  
75 100  
77 114.8 25.1 37.7#

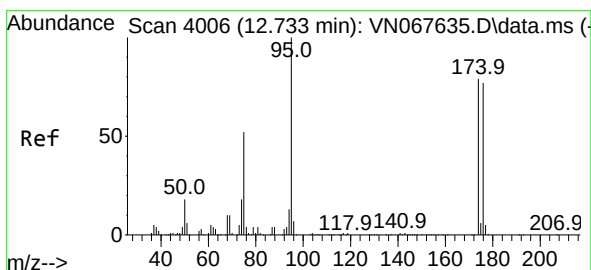
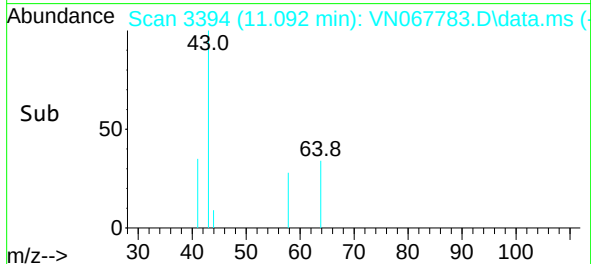
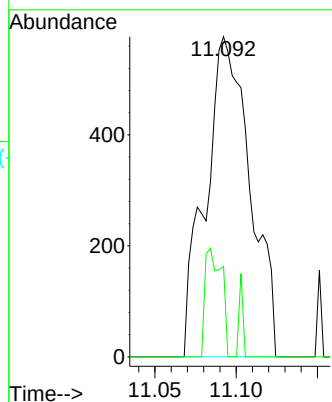
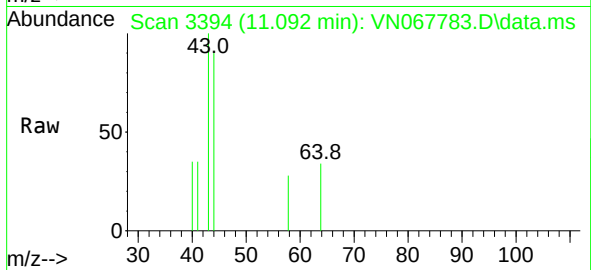




#59  
2-Hexanone  
Concen: 0.281 ug/l  
RT: 11.092 min Scan# 3394  
Delta R.T. 0.005 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

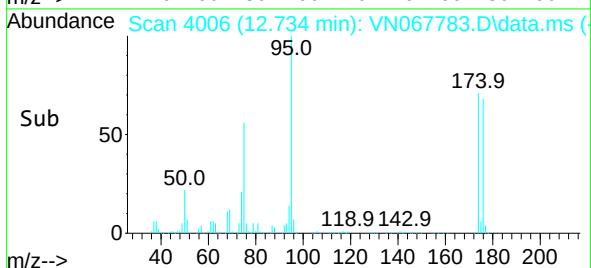
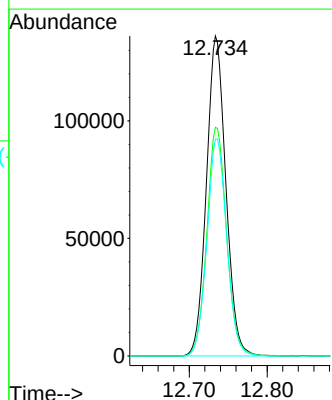
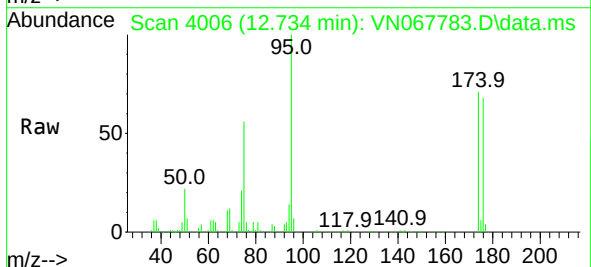
Instrument :  
MSVOA\_N  
ClientSampled :

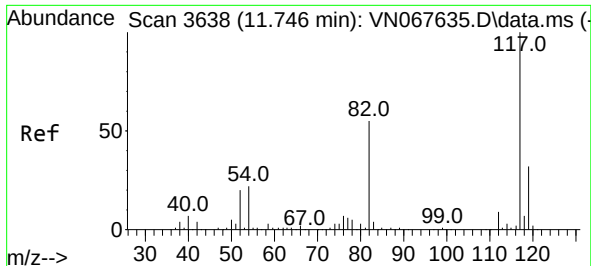
Tgt Ion: 43 Resp: 1100  
Ion Ratio Lower Upper  
43 100  
58 12.5 24.7 74.1#



#62  
4-Bromofluorobenzene  
Concen: 45.941 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.001 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Tgt Ion: 95 Resp: 236318  
Ion Ratio Lower Upper  
95 100  
174 72.7 0.0 122.0  
176 69.0 0.0 117.6

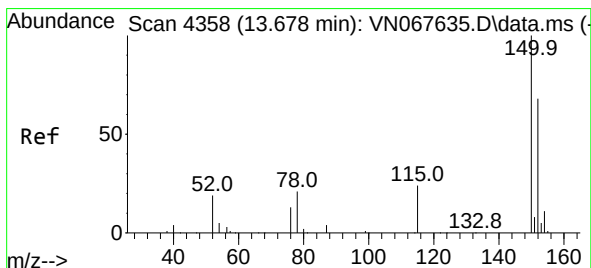
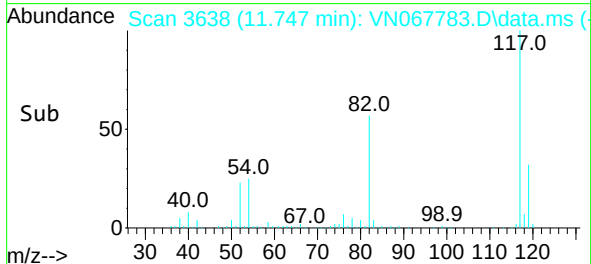
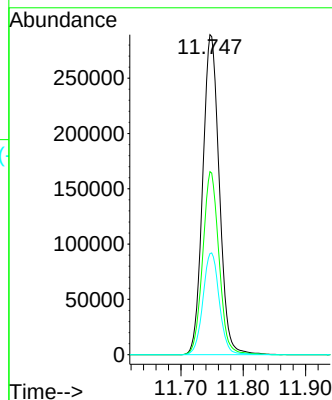
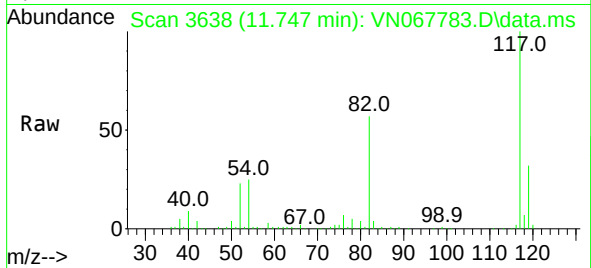




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

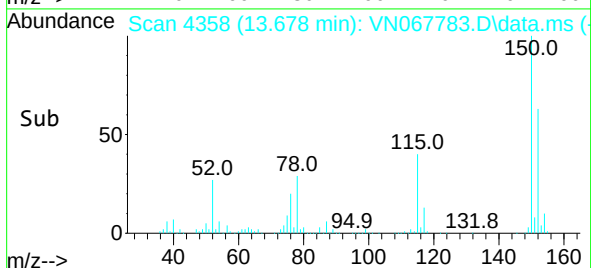
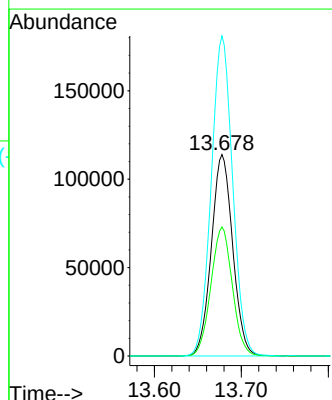
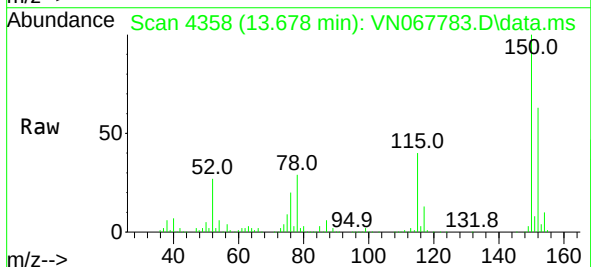
Instrument :  
MSVOA\_N  
ClientSampled :

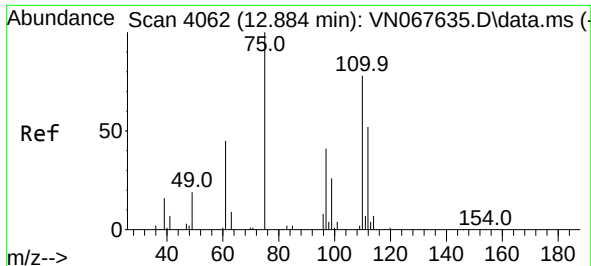
Tgt Ion:117 Resp: 533273  
Ion Ratio Lower Upper  
117 100  
82 57.2 53.1 79.7  
119 31.6 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. 0.000 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Tgt Ion:152 Resp: 194445  
Ion Ratio Lower Upper  
152 100  
115 64.2 36.1 108.5  
150 159.1 0.0 351.8

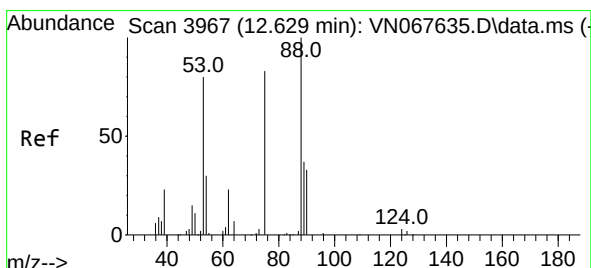
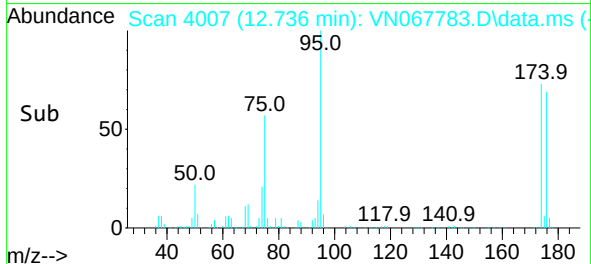
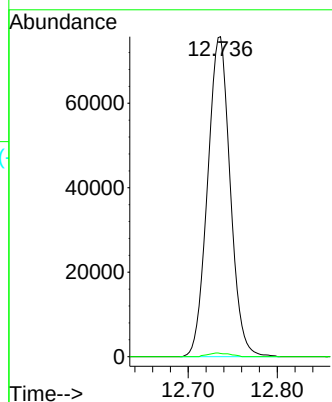
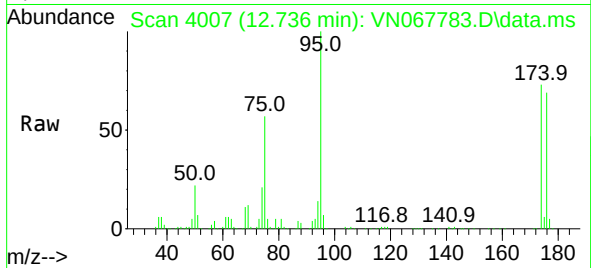




#76  
1,2,3-Trichloropropane  
Concen: 33.671 ug/l  
RT: 12.736 min Scan# 4007  
Delta R.T. -0.148 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

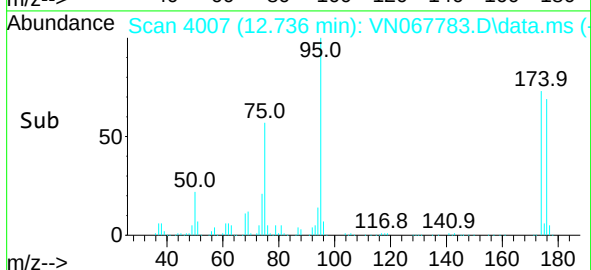
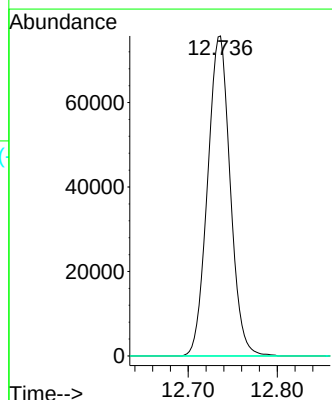
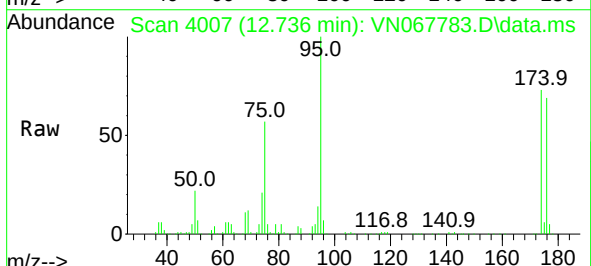
Instrument :  
MSVOA\_N  
ClientSampled :

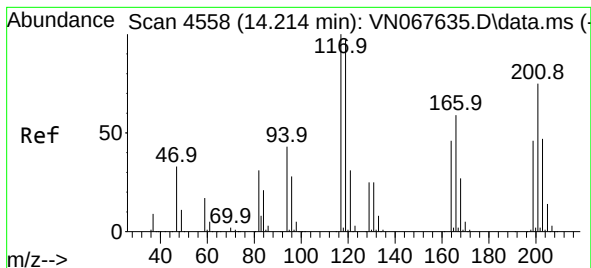
Tgt Ion: 75 Resp: 133705  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 108.559 ug/l  
RT: 12.736 min Scan# 4007  
Delta R.T. 0.107 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Tgt Ion: 75 Resp: 133705  
Ion Ratio Lower Upper  
75 100  
53 0.0 87.6 131.4#  
89 0.0 37.8 56.8#





#90

Hexachloroethane

Concen: 0.224 ug/l

RT: 14.332 min Scan# 4602

Delta R.T. 0.118 min

Lab File: VN067783.D

Acq: 16 Jul 2021 19:25

Instrument :

MSVOA\_N

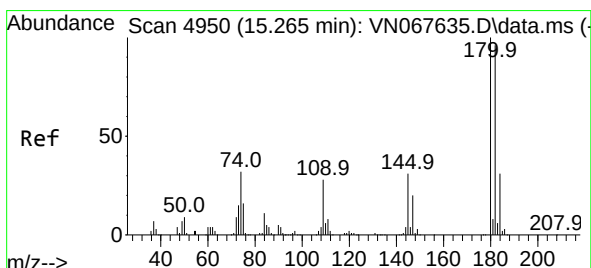
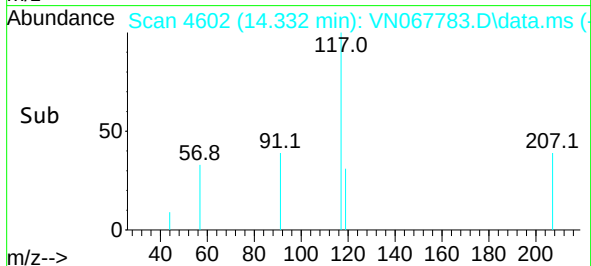
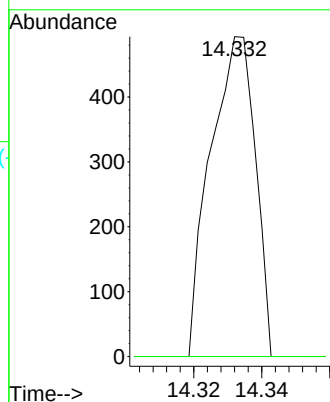
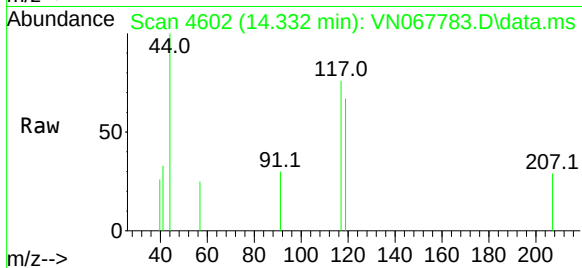
ClientSampled :

Tgt Ion:117 Resp: 451

Ion Ratio Lower Upper

117 100

201 0.0 33.5 100.5#



#93

1,2,4-Trichlorobenzene

Concen: 2.791 ug/l

RT: 15.265 min Scan# 4950

Delta R.T. 0.000 min

Lab File: VN067783.D

Acq: 16 Jul 2021 19:25

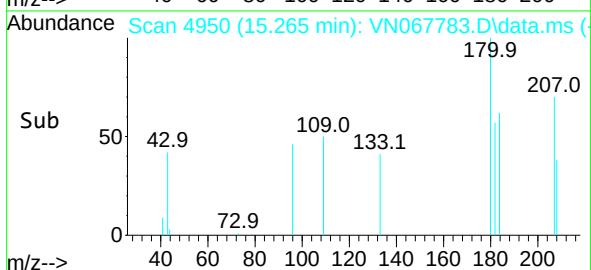
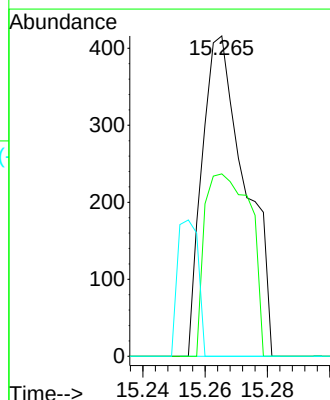
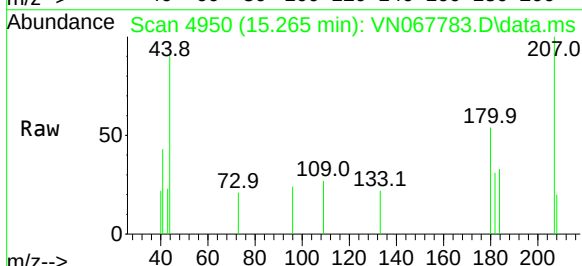
Tgt Ion:180 Resp: 399

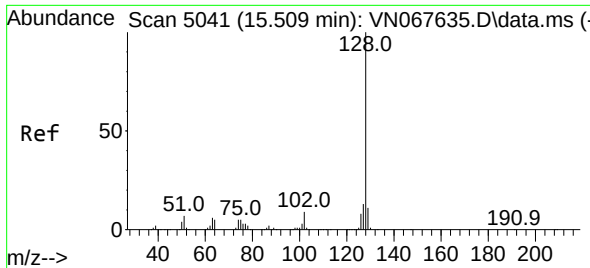
Ion Ratio Lower Upper

180 100

182 60.4 47.5 142.5

145 20.6 17.2 51.6

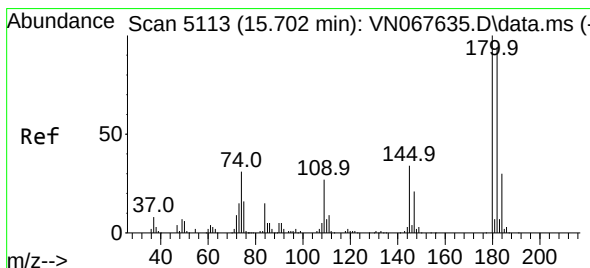
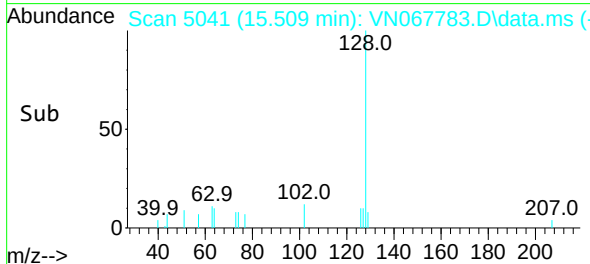
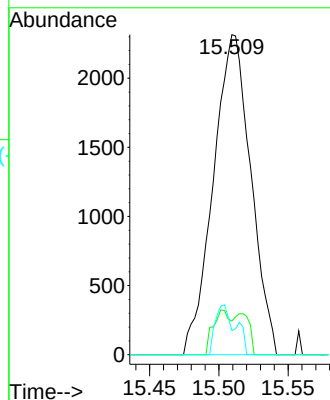
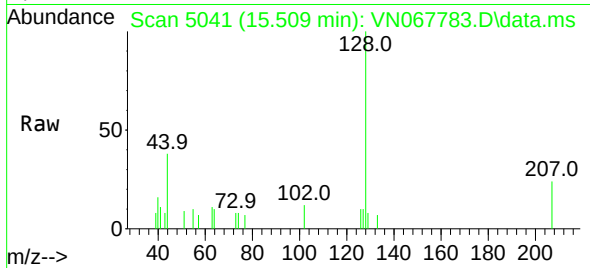




#95  
Naphthalene  
Concen: 3.443 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.000 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:128 Resp: 4362  
Ion Ratio Lower Upper  
128 100  
127 6.6 10.6 15.8#  
129 8.3 8.6 12.8#



#96  
1,2,3-Trichlorobenzene  
Concen: 2.819 ug/l  
RT: 15.700 min Scan# 5112  
Delta R.T. -0.002 min  
Lab File: VN067783.D  
Acq: 16 Jul 2021 19:25

Tgt Ion:180 Resp: 610  
Ion Ratio Lower Upper  
180 100  
182 57.5 47.8 143.3  
145 37.2 18.2 54.6

