

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080122\  
 Data File : VN073670.D  
 Acq On : 01 Aug 2022 19:24  
 Operator : JC\MD  
 Sample : N3988-05  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 63022-A

Quant Time: Aug 02 05:05:21 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 29 02:20:25 2022  
 Response via : Initial Calibration

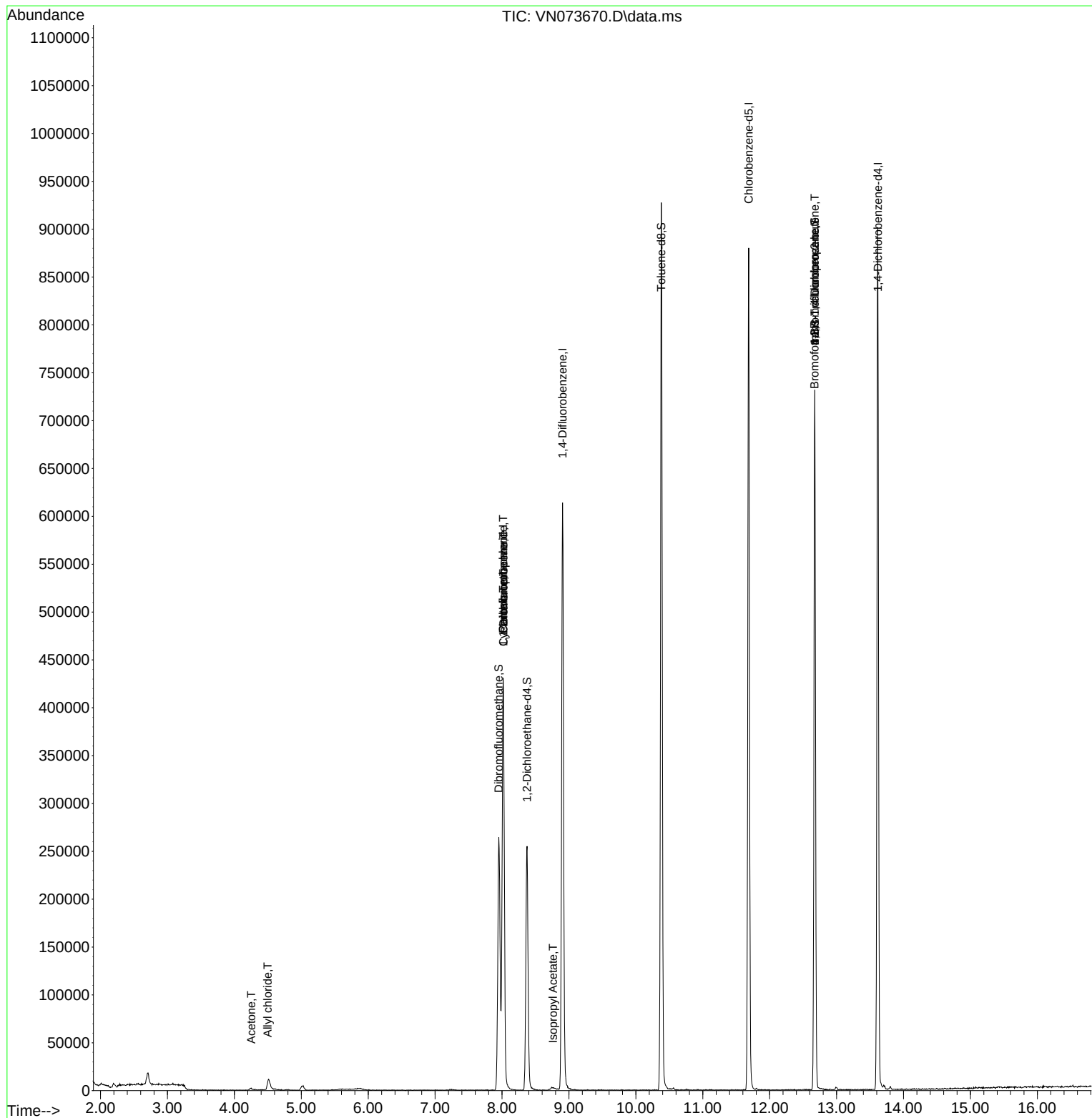
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.016  | 168   | 346466   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.904  | 114   | 561908   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.686 | 117   | 526898   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.616 | 152   | 253366   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.375  | 65    | 210217   | 49.788    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 99.580%  |
| 35) Dibromofluoromethane      | 7.951  | 113   | 196071   | 55.569    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 111.140% |
| 50) Toluene-d8                | 10.381 | 98    | 649601   | 46.785    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 93.580%  |
| 62) 4-Bromofluorobenzene      | 12.675 | 95    | 235020   | 50.554    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 101.100% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.269  | 50    | 928      | Below Cal | #      | 43       |
| 6) Chloroethane               | 2.946  | 64    | 364      | Below Cal | #      | 42       |
| 14) Allyl chloride            | 4.499  | 41    | 1648     | 0.314     | ug/l # | 54       |
| 16) Acetone                   | 4.252  | 43    | 3829     | 1.688     | ug/l   | 95       |
| 20) Methylene Chloride        | 5.028  | 84    | 4269     | Below Cal |        | 94       |
| 31) Cyclohexane               | 8.022  | 56    | 6801     | 1.082     | ug/l # | 36       |
| 36) 1,1-Dichloropropene       | 8.022  | 75    | 25147    | 5.001     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.016  | 117   | 33725    | 6.603     | ug/l # | 18       |
| 43) Isopropyl Acetate         | 8.763  | 43    | 2561     | 0.286     | ug/l # | 53       |
| 71) Bromoform                 | 12.669 | 173   | 1599     | 0.483     | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.675 | 75    | 123045   | 24.891    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.675 | 75    | 123045   | 62.936    | ug/l # | 10       |
| -----                         |        |       |          |           |        |          |

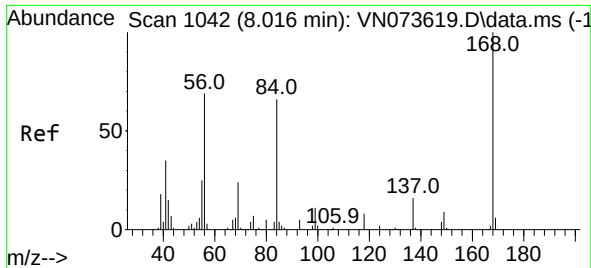
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
ClientSampleId :  
63022-A

Quant Time: Aug 02 05:05:21 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 29 02:20:25 2022  
Response via : Initial Calibration

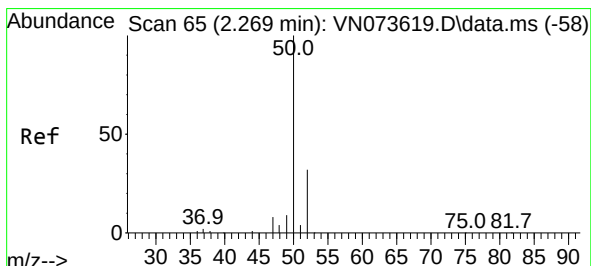
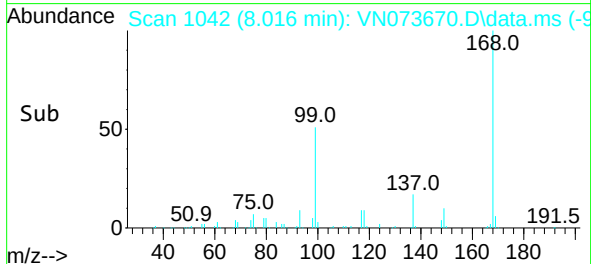
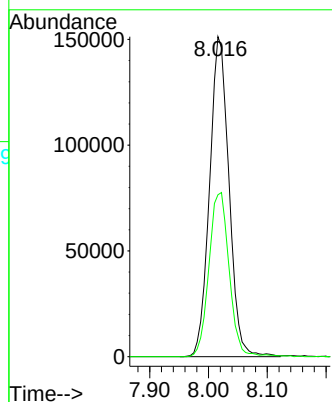
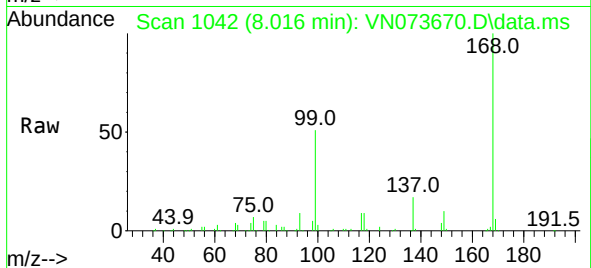




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. 0.000 min  
Lab File: VN073670.D  
Acq: 01 Aug 2022 19:24

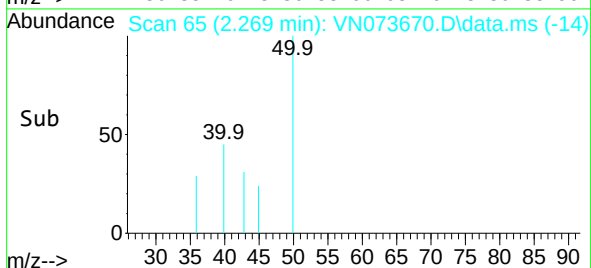
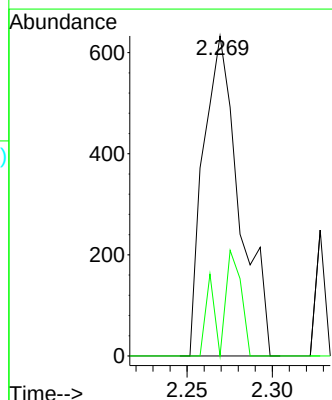
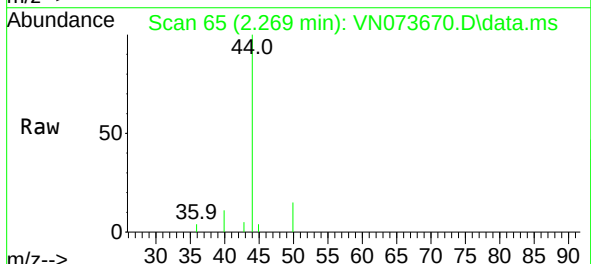
Instrument :  
MSVOA\_N  
ClientSampleId :  
63022-A

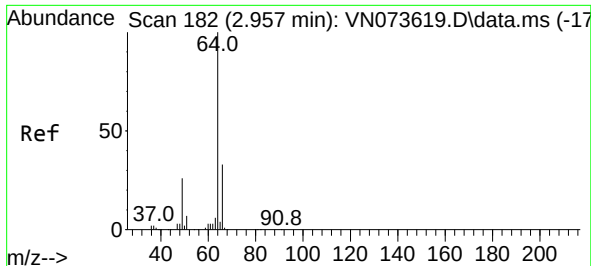
Tgt Ion:168 Resp: 346466  
Ion Ratio Lower Upper  
168 100  
99 50.6 42.3 63.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.269 min Scan# 65  
Delta R.T. 0.000 min  
Lab File: VN073670.D  
Acq: 01 Aug 2022 19:24

Tgt Ion: 50 Resp: 928  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.7 38.5#

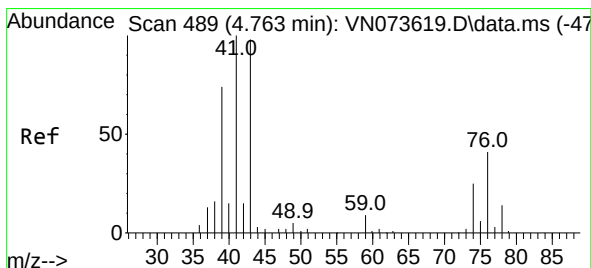
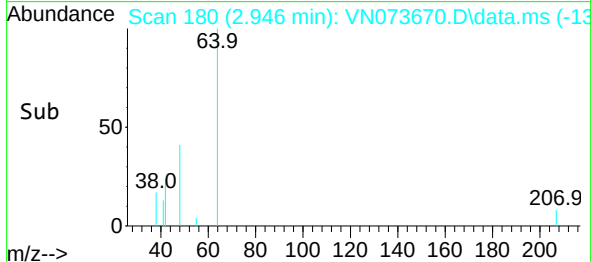
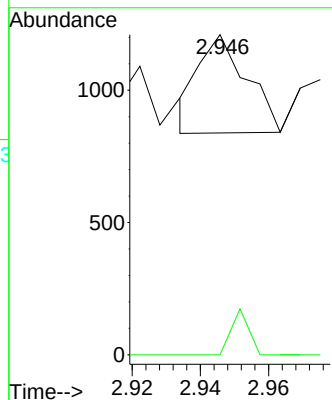
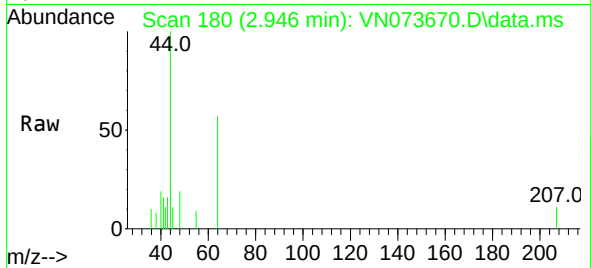




#6  
Chloroethane  
Concen: Below Cal  
RT: 2.946 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: VN073670.D  
Acq: 01 Aug 2022 19:24

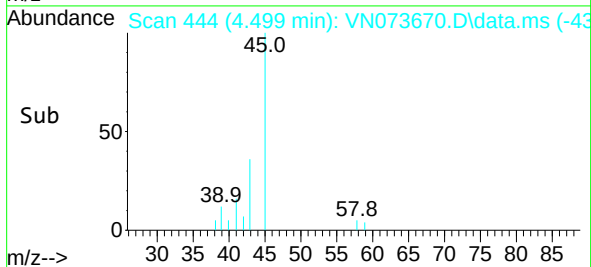
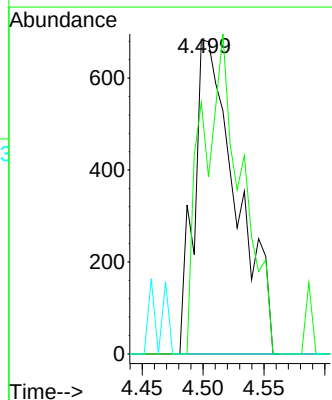
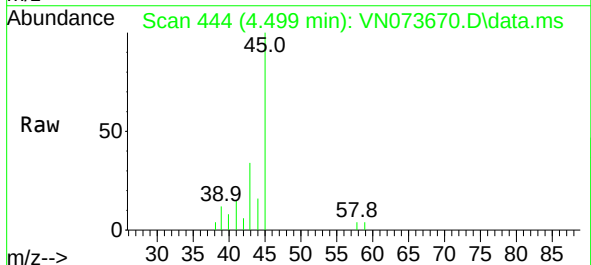
Instrument :  
MSVOA\_N  
ClientSampleId :  
63022-A

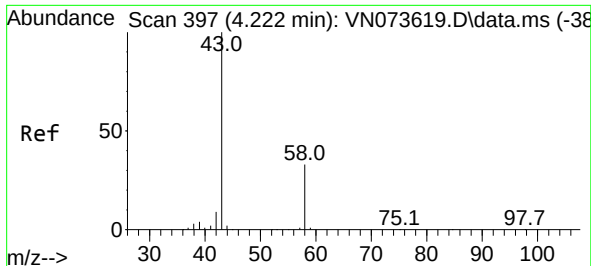
Tgt Ion: 64 Resp: 364  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.2 39.4#



#14  
Allyl chloride  
Concen: 0.314 ug/l  
RT: 4.499 min Scan# 444  
Delta R.T. -0.265 min  
Lab File: VN073670.D  
Acq: 01 Aug 2022 19:24

Tgt Ion: 41 Resp: 1648  
Ion Ratio Lower Upper  
41 100  
39 96.1 53.2 79.8#  
76 0.0 29.9 44.9#





#16

Acetone

Concen: 1.688 ug/l

RT: 4.252 min Scan# 402

Delta R.T. 0.030 min

Lab File: VN073670.D

Acq: 01 Aug 2022 19:24

Instrument :

MSVOA\_N

ClientSampleId :

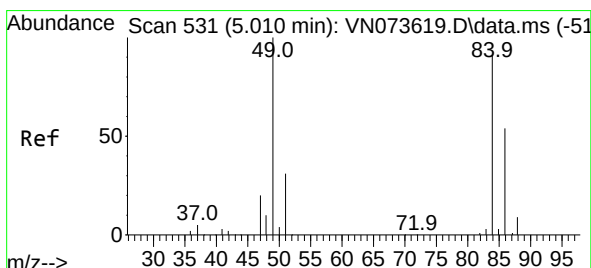
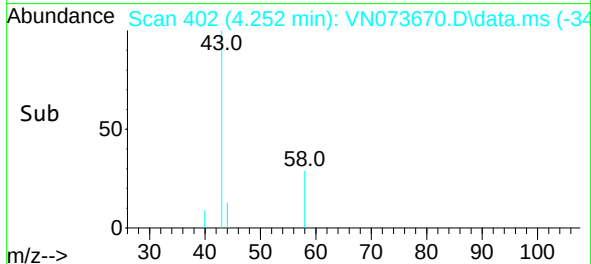
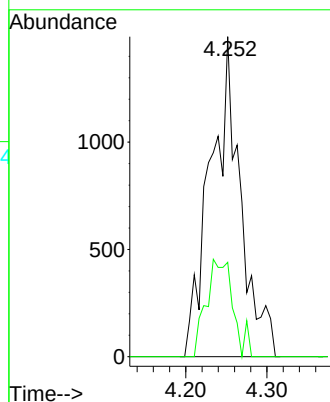
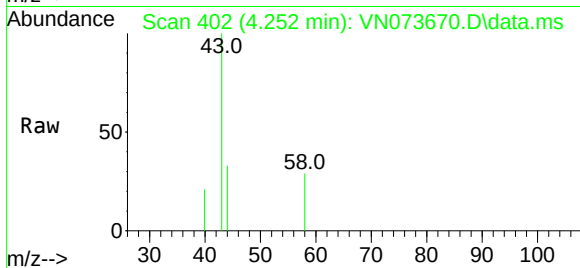
63022-A

Tgt Ion: 43 Resp: 3829

Ion Ratio Lower Upper

43 100

58 29.5 26.0 39.0



#20

Methylene Chloride

Concen: Below Cal

RT: 5.028 min Scan# 534

Delta R.T. 0.018 min

Lab File: VN073670.D

Acq: 01 Aug 2022 19:24

Tgt Ion: 84 Resp: 4269

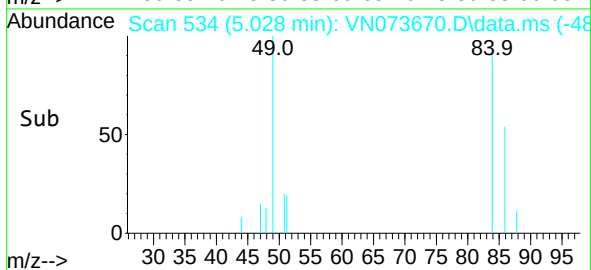
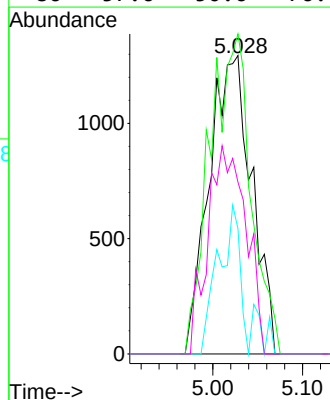
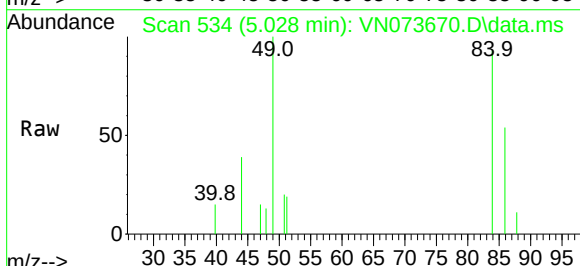
Ion Ratio Lower Upper

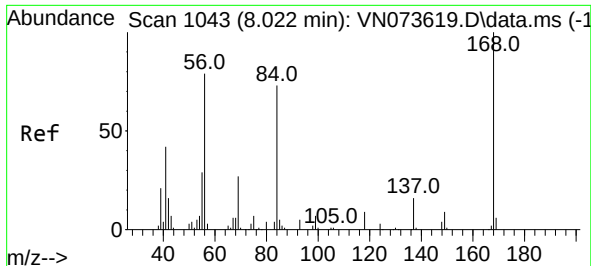
84 100

49 107.3 88.3 132.5

51 42.0 28.2 42.2

86 57.6 50.6 76.0

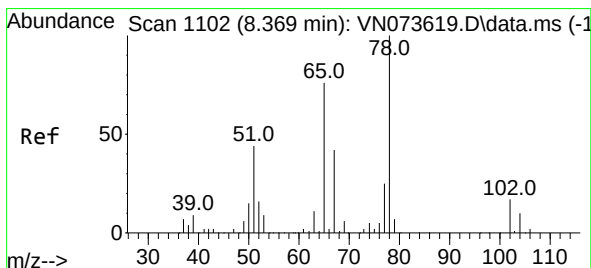
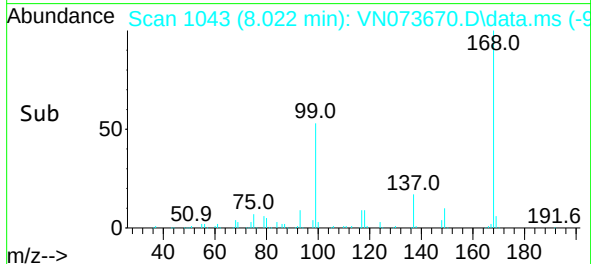
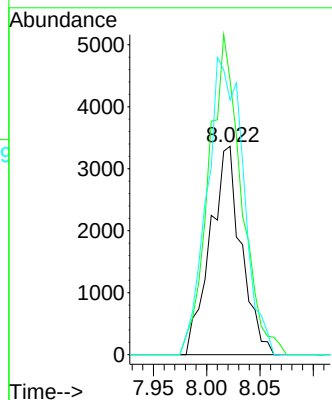
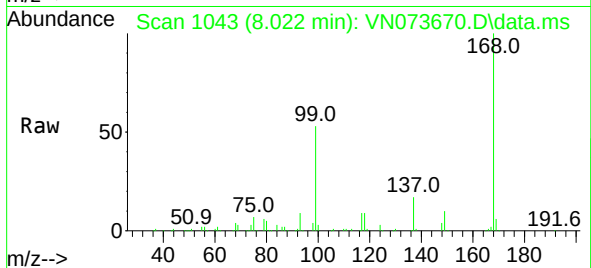




#31  
Cyclohexane  
Concen: 1.082 ug/l  
RT: 8.022 min Scan# 1103  
Delta R.T. 0.000 min  
Lab File: VN073670.D  
Acq: 01 Aug 2022 19:24

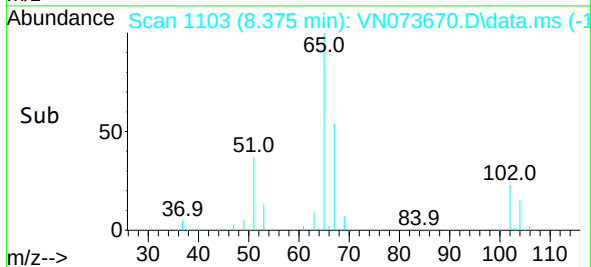
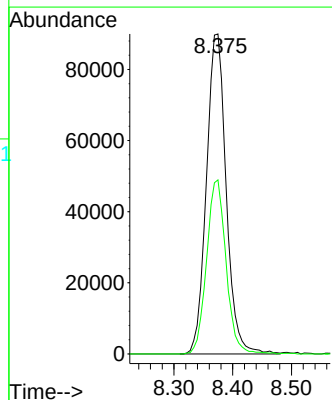
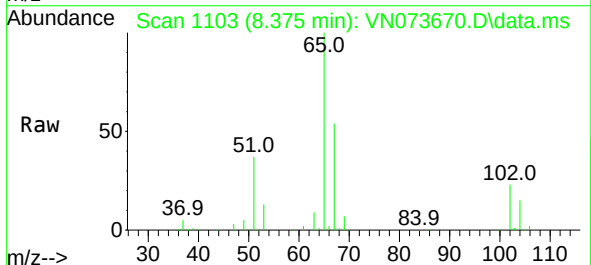
Instrument :  
MSVOA\_N  
ClientSampleId :  
63022-A

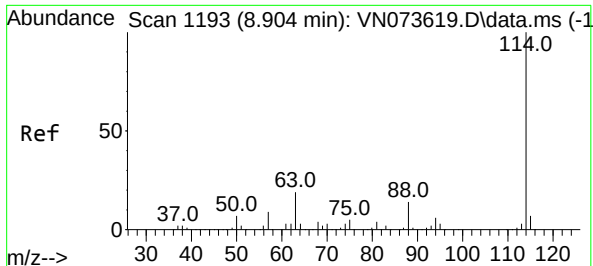
Tgt Ion: 56 Resp: 6801  
Ion Ratio Lower Upper  
56 100  
69 131.7 27.8 41.8#  
84 122.3 76.9 115.3#



#33  
1,2-Dichloroethane-d4  
Concen: 49.788 ug/l  
RT: 8.375 min Scan# 1103  
Delta R.T. 0.006 min  
Lab File: VN073670.D  
Acq: 01 Aug 2022 19:24

Tgt Ion: 65 Resp: 210217  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN073670.D

Acq: 01 Aug 2022 19:24

Instrument :

MSVOA\_N

ClientSampleId :

63022-A

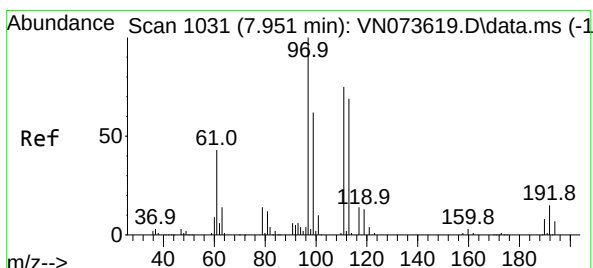
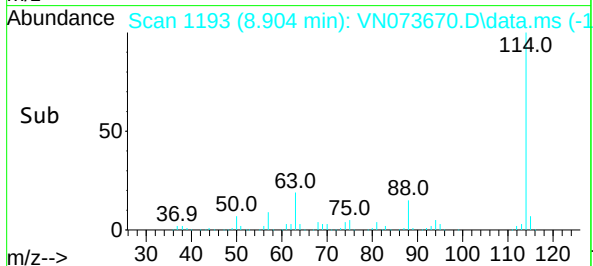
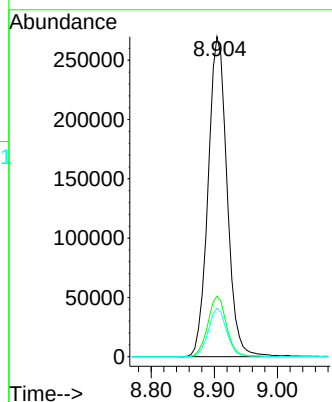
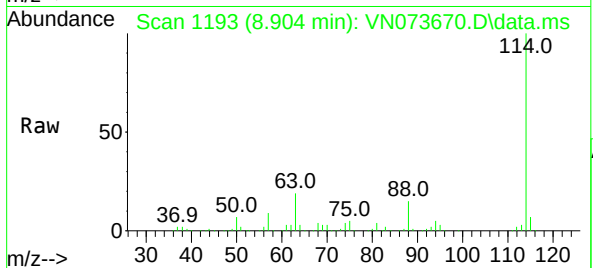
Tgt Ion:114 Resp: 561908

Ion Ratio Lower Upper

114 100

63 18.9 0.0 40.0

88 15.1 0.0 32.6



#35

Dibromofluoromethane

Concen: 55.569 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073670.D

Acq: 01 Aug 2022 19:24

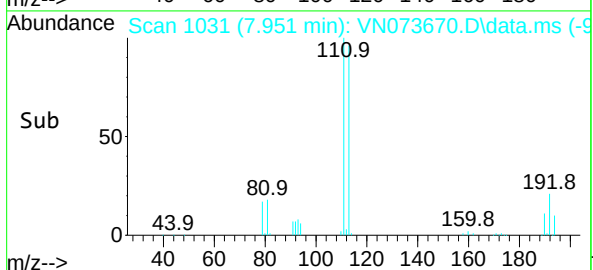
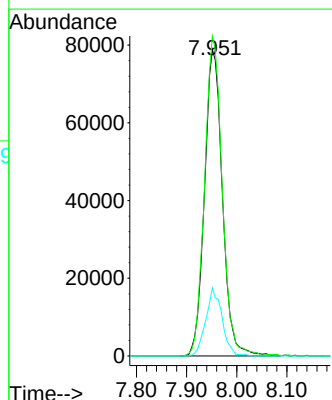
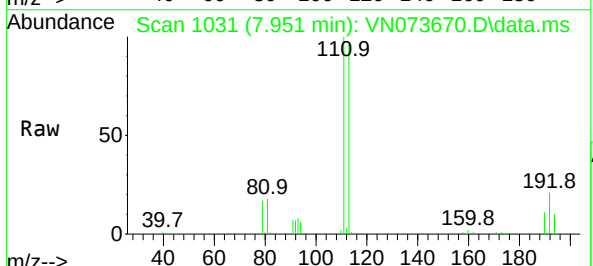
Tgt Ion:113 Resp: 196071

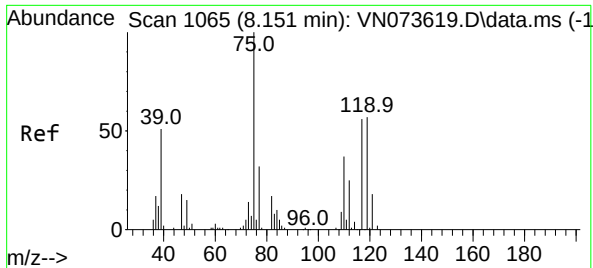
Ion Ratio Lower Upper

113 100

111 103.3 81.4 122.0

192 20.0 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.001 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.129 min

Lab File: VN073670.D

Acq: 01 Aug 2022 19:24

Instrument :

MSVOA\_N

ClientSampleId :

63022-A

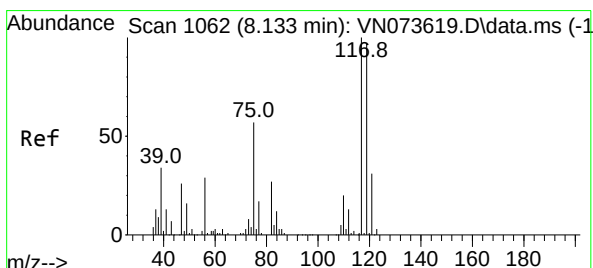
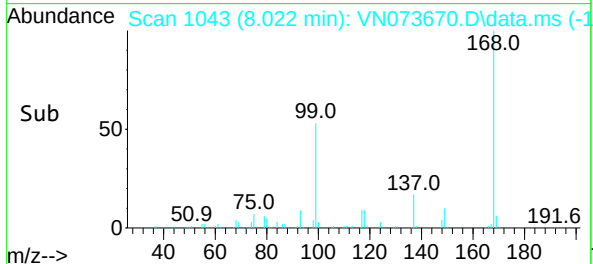
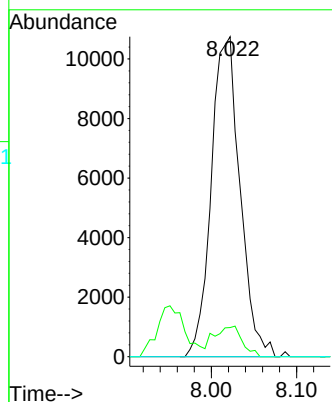
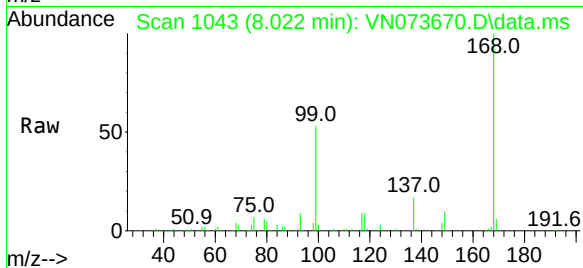
Tgt Ion: 75 Resp: 25147

Ion Ratio Lower Upper

75 100

110 9.3 18.3 54.8#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.603 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.117 min

Lab File: VN073670.D

Acq: 01 Aug 2022 19:24

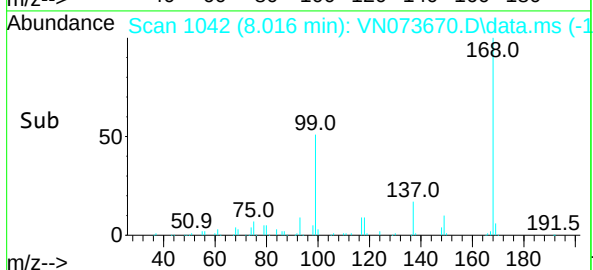
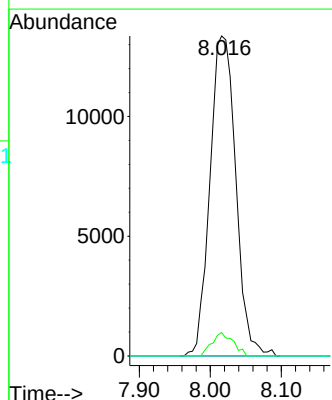
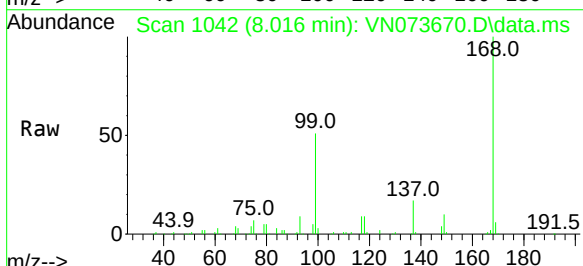
Tgt Ion: 117 Resp: 33725

Ion Ratio Lower Upper

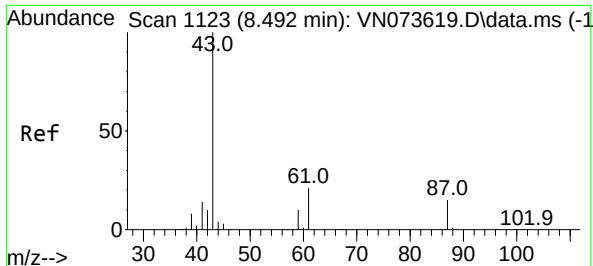
117 100

119 7.3 75.8 113.8#

121 0.0 24.6 37.0#







#43

Isopropyl Acetate

Concen: 0.286 ug/l

RT: 8.763 min Scan# 1169

Delta R.T. 0.271 min

Lab File: VN073670.D

Acq: 01 Aug 2022 19:24

Instrument :

MSVOA\_N

ClientSampleId :

63022-A

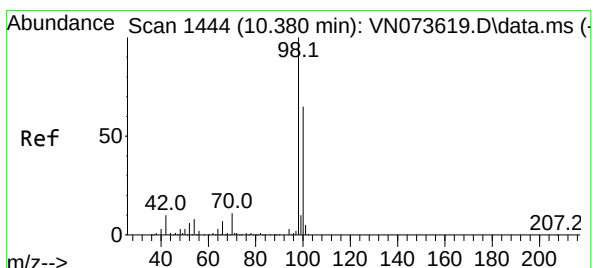
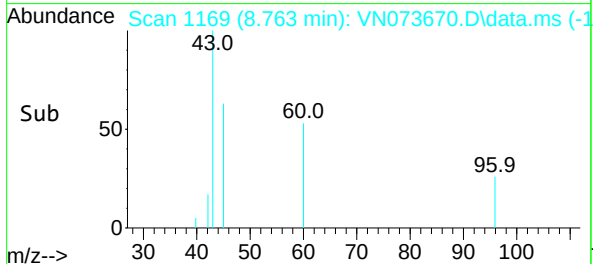
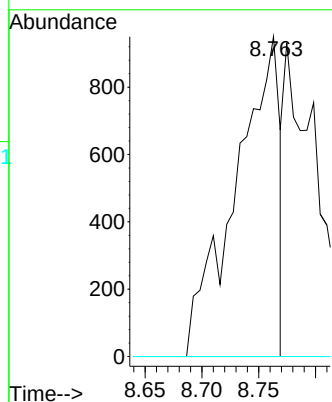
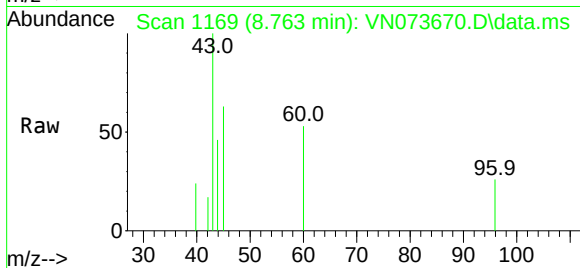
Tgt Ion: 43 Resp: 2561

Ion Ratio Lower Upper

43 100

61 0.0 21.9 32.9#

87 0.0 12.0 18.0#



#50

Toluene-d8

Concen: 46.785 ug/l

RT: 10.381 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN073670.D

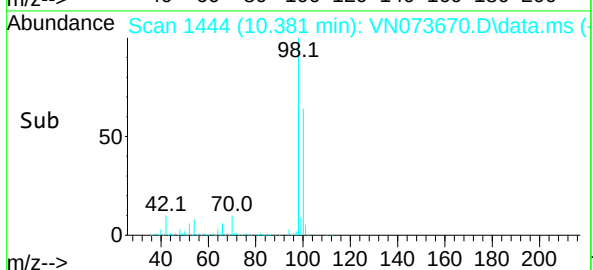
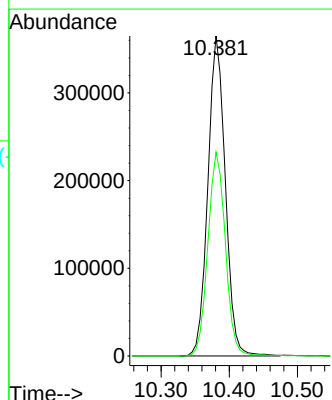
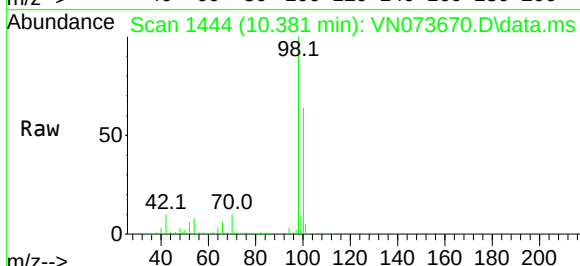
Acq: 01 Aug 2022 19:24

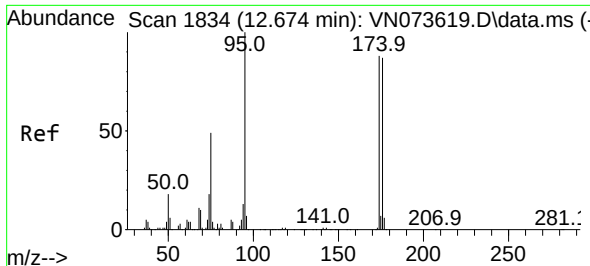
Tgt Ion: 98 Resp: 649601

Ion Ratio Lower Upper

98 100

100 64.2 52.6 78.8

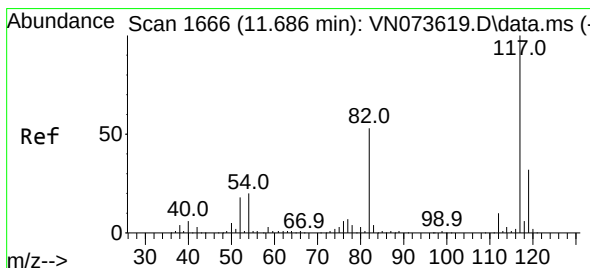
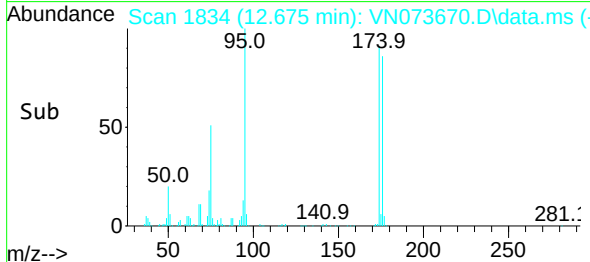
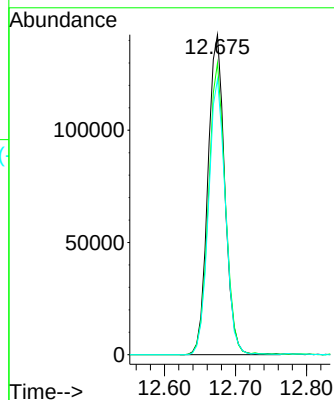
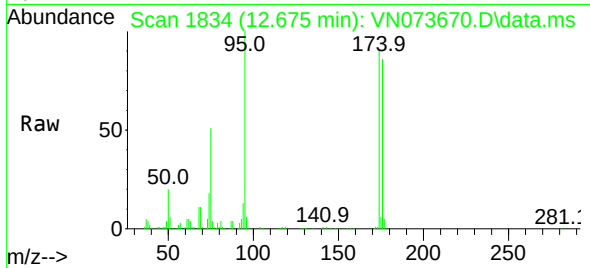




#62  
4-Bromofluorobenzene  
Concen: 50.554 ug/l  
RT: 12.675 min Scan# 1834  
Delta R.T. 0.001 min  
Lab File: VN073670.D  
Acq: 01 Aug 2022 19:24

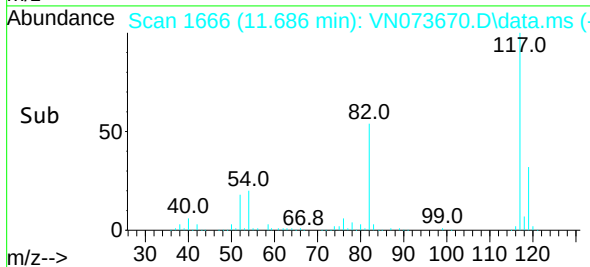
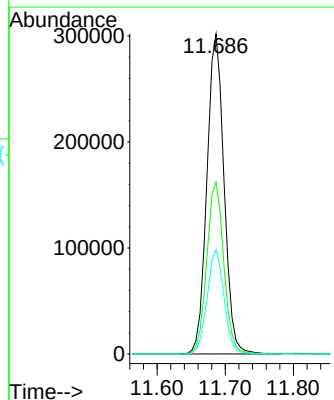
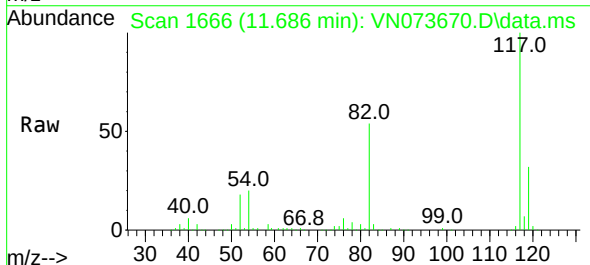
Instrument :  
MSVOA\_N  
ClientSampleId :  
63022-A

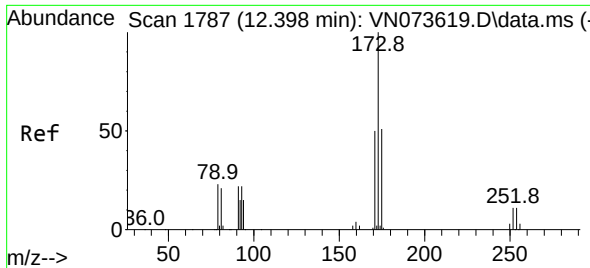
Tgt Ion: 95 Resp: 235020  
Ion Ratio Lower Upper  
95 100  
174 91.2 0.0 167.6  
176 86.2 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. 0.000 min  
Lab File: VN073670.D  
Acq: 01 Aug 2022 19:24

Tgt Ion: 117 Resp: 526898  
Ion Ratio Lower Upper  
117 100  
82 53.7 44.2 66.2  
119 32.5 25.4 38.0

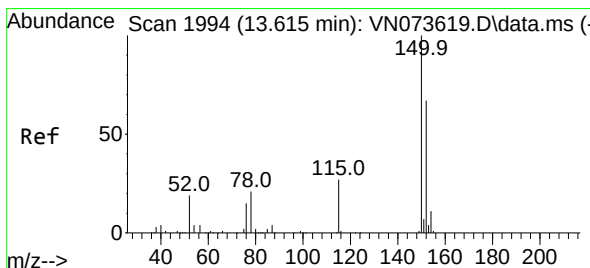
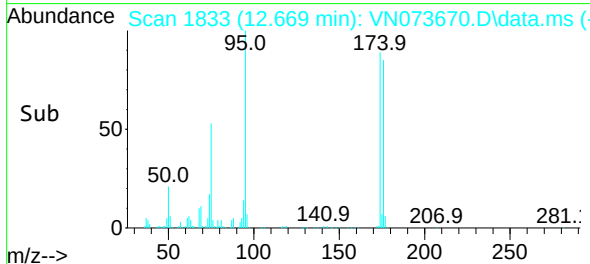
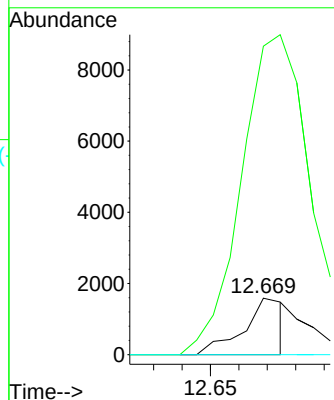
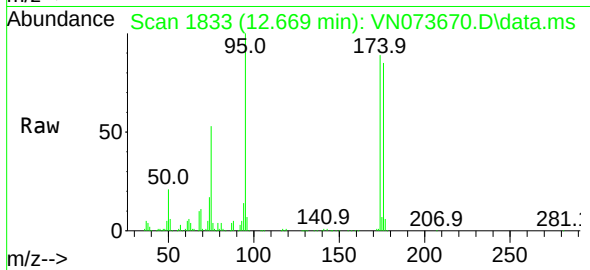




#71  
Bromoform  
Concen: 0.483 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. 0.271 min  
Lab File: VN073670.D  
Acq: 01 Aug 2022 19:24

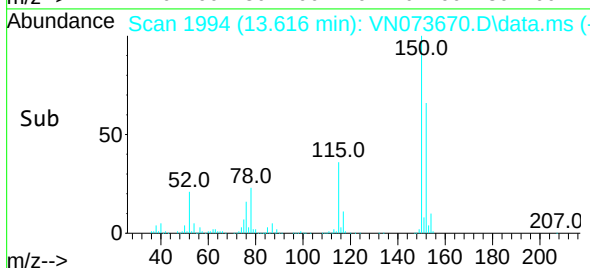
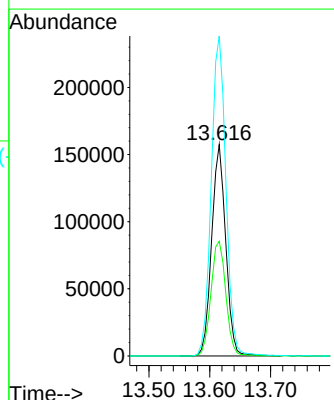
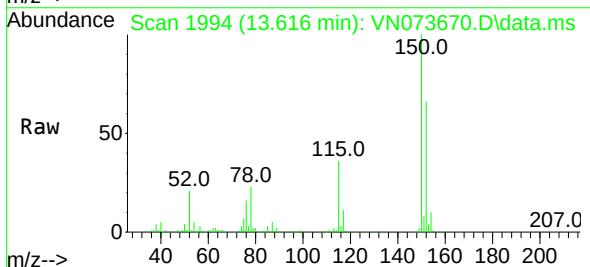
Instrument :  
MSVOA\_N  
ClientSampleId :  
63022-A

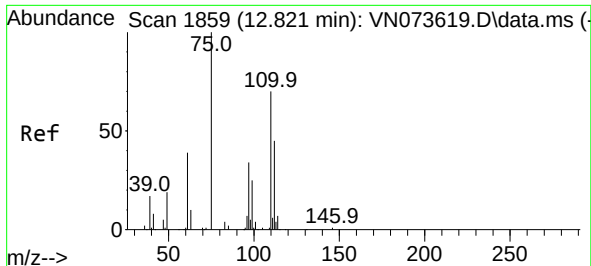
Tgt Ion:173 Resp: 1599  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.6 73.6#  
254 0.0 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.616 min Scan# 1994  
Delta R.T. 0.000 min  
Lab File: VN073670.D  
Acq: 01 Aug 2022 19:24

Tgt Ion:152 Resp: 253366  
Ion Ratio Lower Upper  
152 100  
115 57.3 28.9 86.7  
150 156.9 0.0 356.2

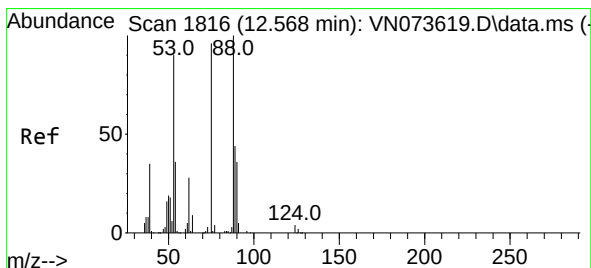
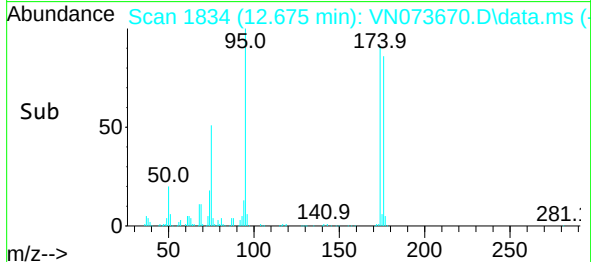
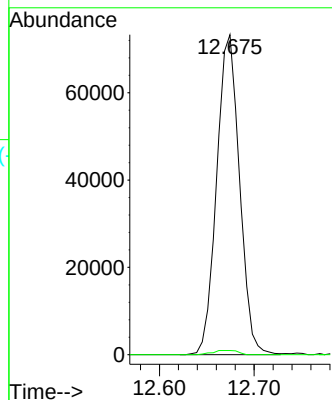
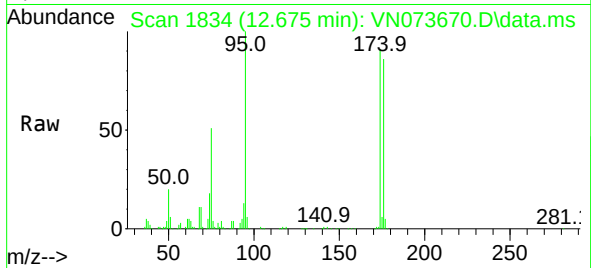




#76  
 1,2,3-Trichloropropane  
 Concen: 24.891 ug/l  
 RT: 12.675 min Scan# 1834  
 Delta R.T. -0.146 min  
 Lab File: VN073670.D  
 Acq: 01 Aug 2022 19:24

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 63022-A

Tgt Ion: 75 Resp: 123045  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 98.5 295.5#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 62.936 ug/l  
 RT: 12.675 min Scan# 1834  
 Delta R.T. 0.106 min  
 Lab File: VN073670.D  
 Acq: 01 Aug 2022 19:24

Tgt Ion: 75 Resp: 123045  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.0 117.0#  
 89 0.0 37.2 55.8#

