

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050421\  
 Data File : VN066974.D  
 Acq On : 5 May 2021 7:34  
 Operator : JC/MD  
 Sample : M2256-21  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 05 08:27:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N050421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 05 07:24:52 2021  
 Response via : Initial Calibration

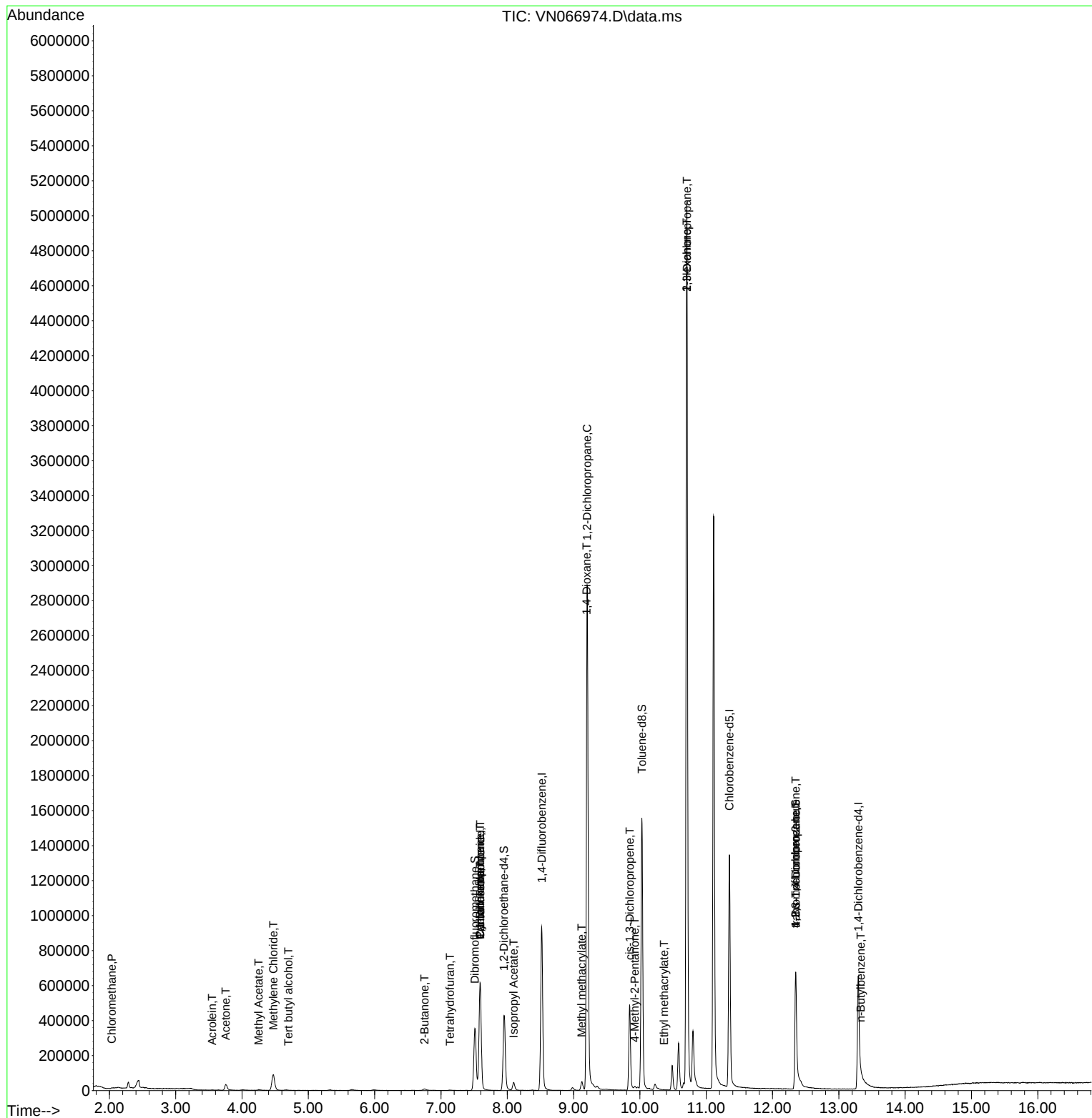
| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) Pentafluorobenzene         | 7.592          | 168  | 466809             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.520          | 114  | 785533             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.350         | 117  | 747643             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.294         | 152  | 245913             | 50.00  | ug/l   | 0.00     |
|                               |                |      |                    |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.951          | 65   | 388602             | 52.89  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 105.78% |        |        |          |
| 35) Dibromofluoromethane      | 7.512          | 113  | 279447             | 52.39  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 104.78% |        |        |          |
| 50) Toluene-d8                | 10.030         | 98   | 1074673            | 52.90  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 105.80% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.350         | 95   | 311939             | 45.35  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 90.70%  |        |        |          |
|                               |                |      |                    |        |        |          |
| Target Compounds              |                |      |                    |        |        | Qvalue   |
| 3) Chloromethane              | 2.035          | 50   | 2029               | 0.22   | ug/l # | 79       |
| 11) Tert butyl alcohol        | 4.701          | 59   | 851                | 0.82   | ug/l # | 73       |
| 13) Acrolein                  | 3.550          | 56   | 975                | 1.13   | ug/l   | 89       |
| 16) Acetone                   | 3.754          | 43   | 57766              | 22.35  | ug/l   | 96       |
| 18) Methyl Acetate            | 4.250          | 43   | 3484               | 0.47   | ug/l # | 82       |
| 20) Methylene Chloride        | 4.473          | 84   | 64899              | 9.90   | ug/l   | 90       |
| 25) 2-Butanone                | 6.753          | 43   | 3483               | 0.91   | ug/l   | 93       |
| 29) Tetrahydrofuran           | 7.139          | 42   | 2088               | 0.83   | ug/l # | 44       |
| 31) Cyclohexane               | 7.589          | 56   | 11298              | 1.09   | ug/l # | 13       |
| 36) 1,1-Dichloropropene       | 7.589          | 75   | 41313              | 5.05   | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.592          | 117  | 49006              | 5.74   | ug/l # | 18       |
| 43) Isopropyl Acetate         | 8.096          | 43   | 55158              | 4.07   | ug/l # | 83       |
| 45) 1,2-Dichloropropane       | 9.204          | 63   | 3887               | 0.54   | ug/l # | 44       |
| 48) Methyl methacrylate       | 9.121          | 41   | 13275              | 2.21   | ug/l # | 10       |
| 49) 1,4-Dioxane               | 9.199          | 88   | 142                | 1.49   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 9.923          | 43   | 14464              | 1.85   | ug/l # | 77       |
| 54) cis-1,3-Dichloropropene   | 9.845          | 75   | 87877              | 8.16   | ug/l # | 64       |
| 56) Ethyl methacrylate        | 10.363         | 69   | 174                | 5.21   | ug/l # | 27       |
| 57) 1,3-Dichloropropane       | 10.709         | 76   | 52522              | 4.95   | ug/l # | 43       |
| 59) 2-Hexanone                | 10.706         | 43   | 744078             | 143.74 | ug/l # | 50       |
| 76) 1,2,3-Trichloropropane    | 12.350         | 75   | 154596             | 26.39  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.350         | 75   | 154596             | 79.11  | ug/l # | 12       |
| 89) n-Butylbenzene            | 13.329         | 91   | 25                 | 5.24   | ug/l # | 34       |
| -----                         |                |      |                    |        |        |          |

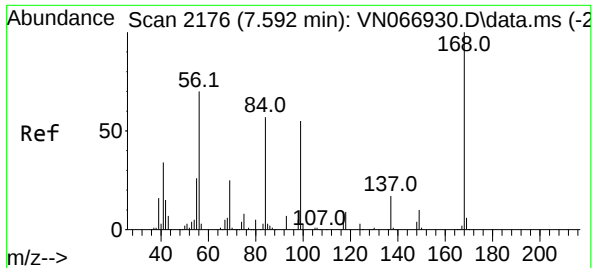
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050421\  
Data File : VN066974.D  
Acq On : 5 May 2021 7:34  
Operator : JC/MD  
Sample : M2256-21  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: May 05 08:27:15 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N050421W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 05 07:24:52 2021  
Response via : Initial Calibration

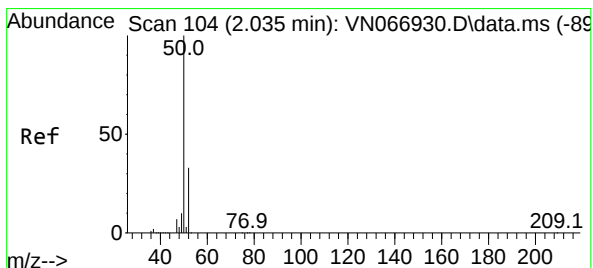
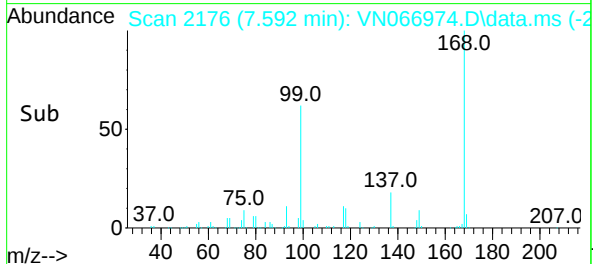
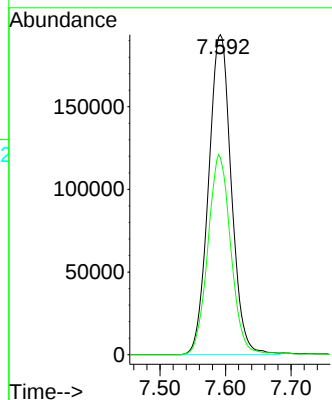
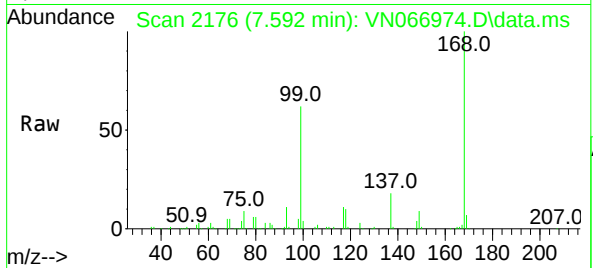




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.592 min Scan# 2176  
Delta R.T. 0.000 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

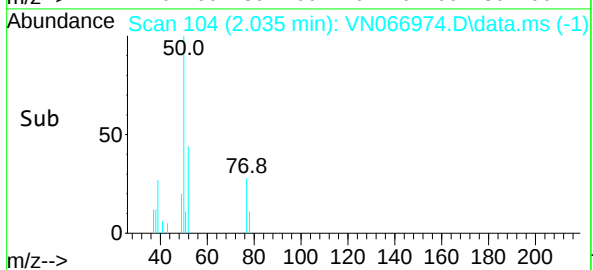
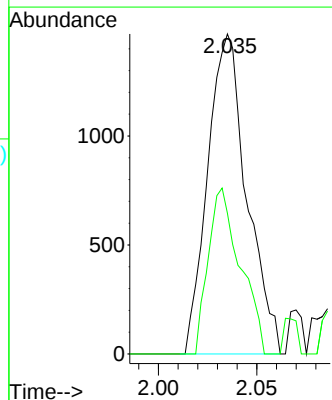
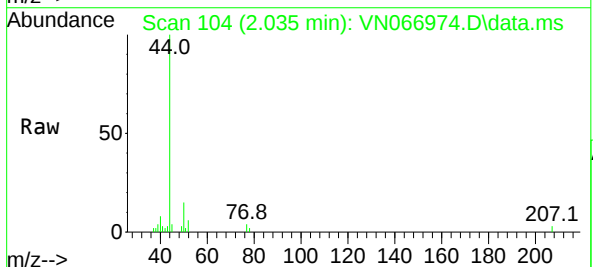
Instrument :  
MSVOA\_N  
ClientSampled :

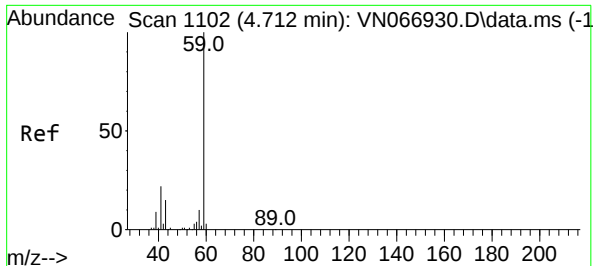
Tgt Ion:168 Resp: 466809  
Ion Ratio Lower Upper  
168 100  
99 61.5 42.6 63.8



#3  
Chloromethane  
Concen: 0.22 ug/l  
RT: 2.035 min Scan# 104  
Delta R.T. 0.000 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

Tgt Ion: 50 Resp: 2029  
Ion Ratio Lower Upper  
50 100  
52 44.0 25.8 38.8#



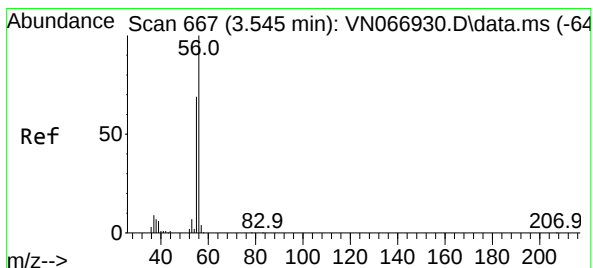
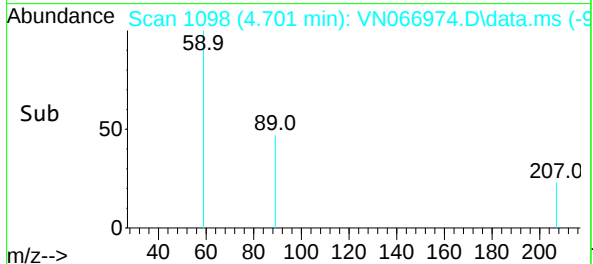
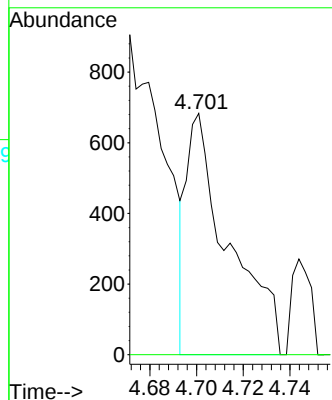
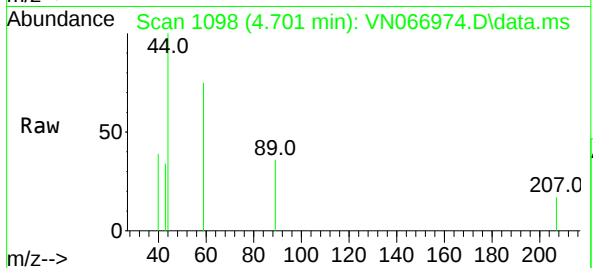


#11

Tert butyl alcohol  
Concen: 0.82 ug/l  
RT: 4.701 min Scan# 1098  
Delta R.T. -0.011 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

Instrument :  
MSVOA\_N  
ClientSampled :

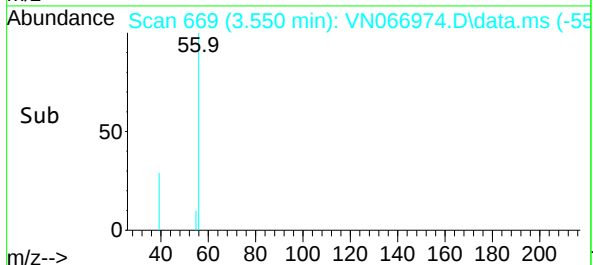
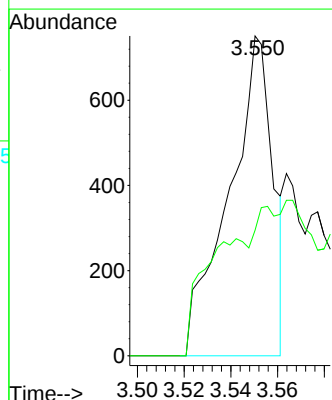
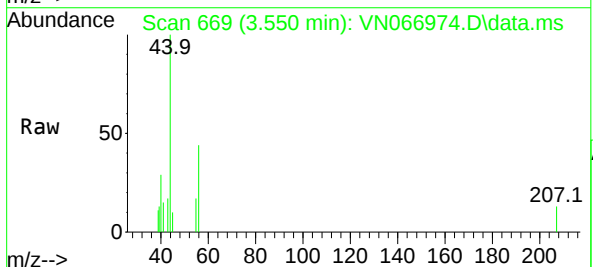
Tgt Ion: 59 Resp: 851  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#

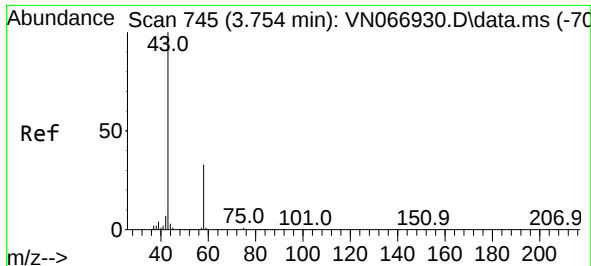


#13

Acrolein  
Concen: 1.13 ug/l  
RT: 3.550 min Scan# 669  
Delta R.T. 0.005 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

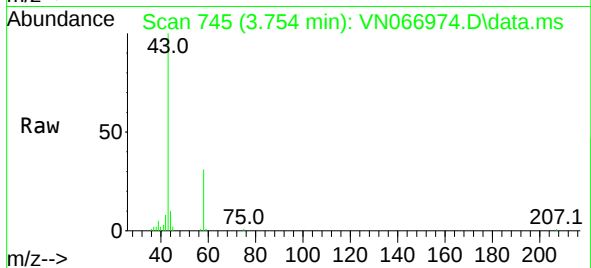
Tgt Ion: 56 Resp: 975  
Ion Ratio Lower Upper  
56 100  
55 60.8 56.0 84.0



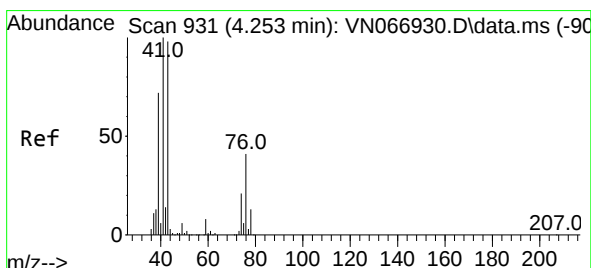
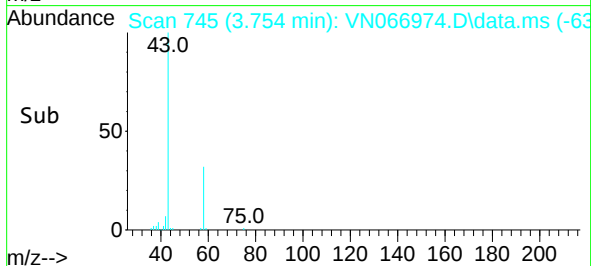
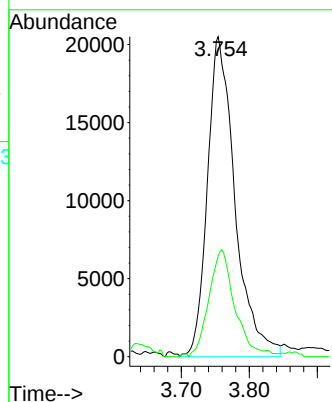


#16  
Acetone  
Concen: 22.35 ug/l  
RT: 3.754 min Scan# 745  
Delta R.T. 0.000 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

Instrument :  
MSVOA\_N  
ClientSampled :

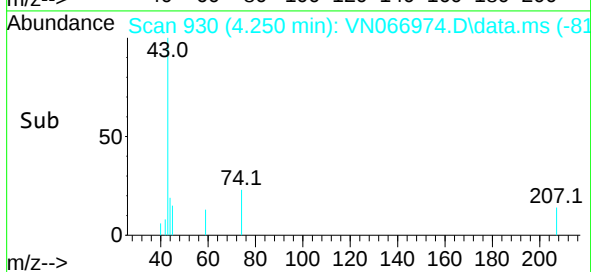
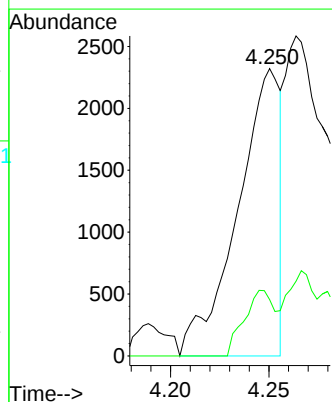
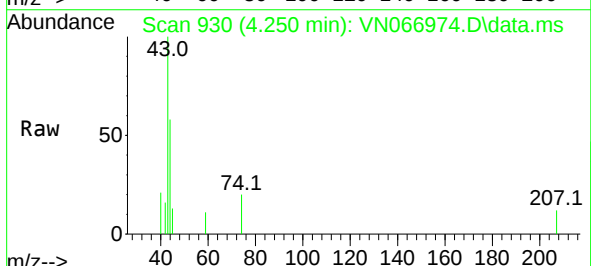


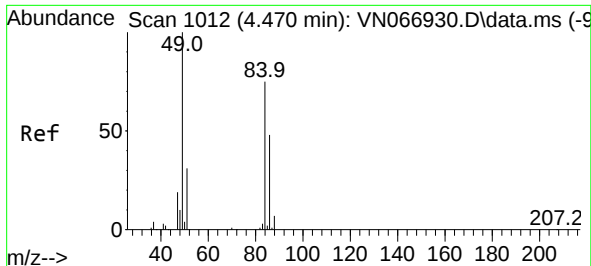
Tgt Ion: 43 Resp: 57766  
Ion Ratio Lower Upper  
43 100  
58 31.4 27.0 40.6



#18  
Methyl Acetate  
Concen: 0.47 ug/l  
RT: 4.250 min Scan# 930  
Delta R.T. -0.003 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

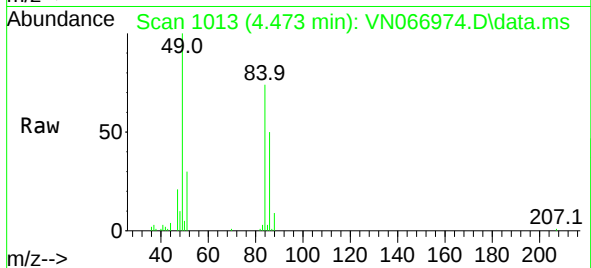
Tgt Ion: 43 Resp: 3484  
Ion Ratio Lower Upper  
43 100  
74 15.5 19.5 29.3#



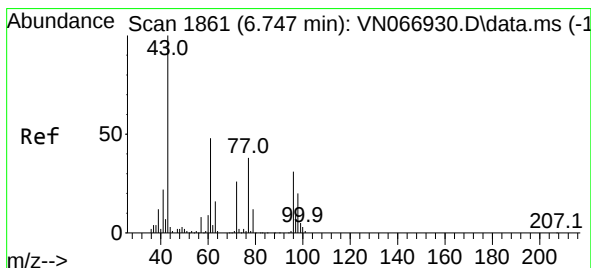
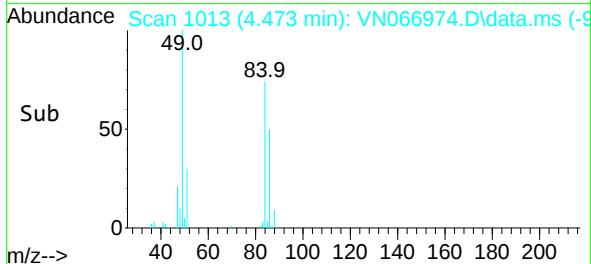
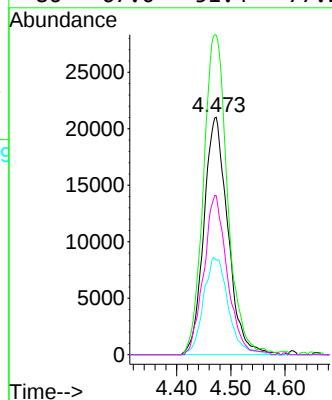


#20  
Methylene Chloride  
Concen: 9.90 ug/l  
RT: 4.473 min Scan# 1013  
Delta R.T. 0.003 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

Instrument :  
MSVOA\_N  
ClientSampled :

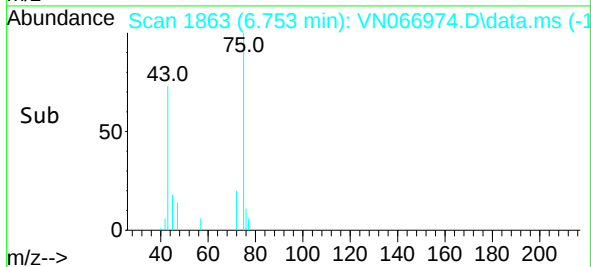
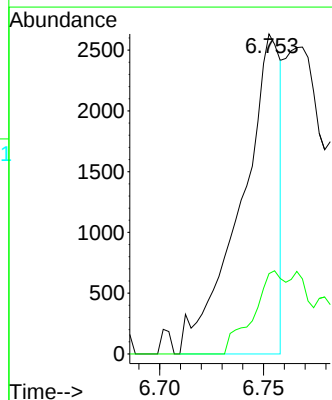
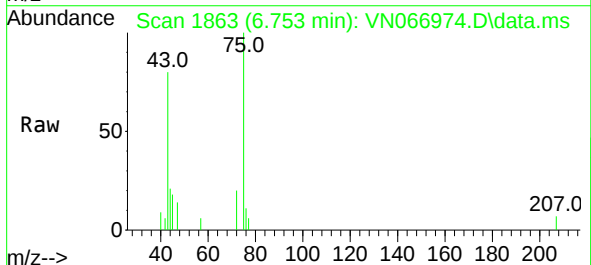


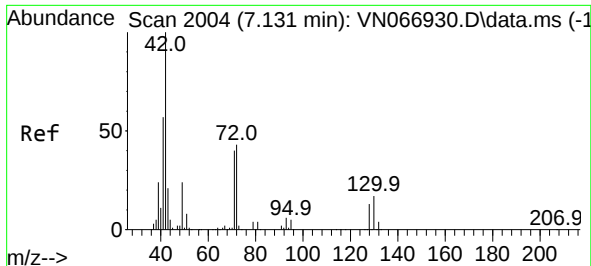
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 64899 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 134.7 | 94.6  | 141.8 |
| 51       | 39.7  | 29.9  | 44.9  |
| 86       | 67.0  | 51.4  | 77.2  |



#25  
2-Butanone  
Concen: 0.91 ug/l  
RT: 6.753 min Scan# 1863  
Delta R.T. 0.006 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

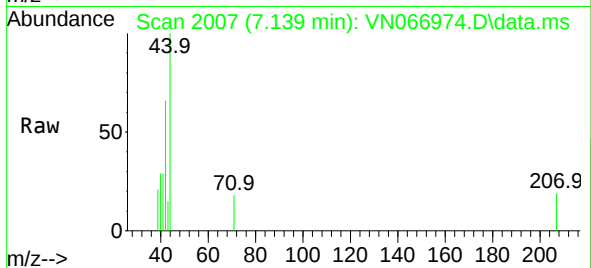
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3483  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 25.1  | 23.1  | 34.7  |



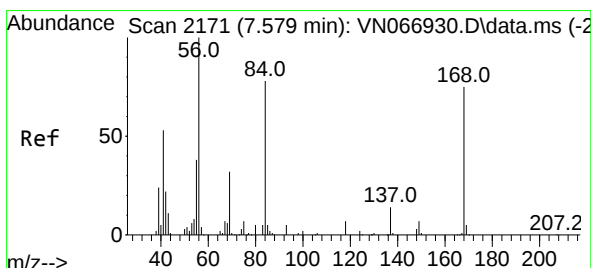
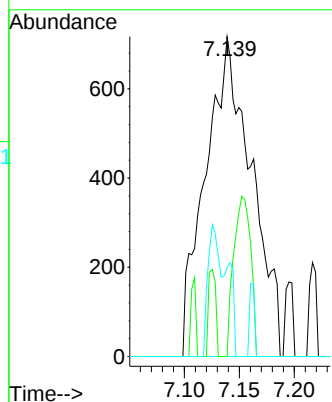
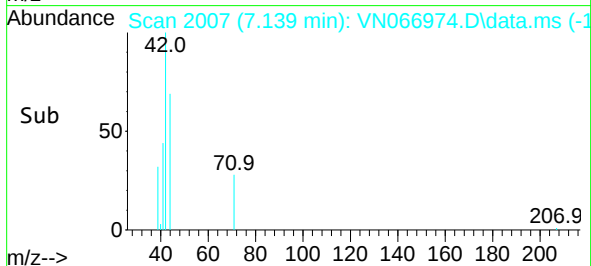


#29  
Tetrahydrofuran  
Concen: 0.83 ug/l  
RT: 7.139 min Scan# 2007  
Delta R.T. 0.008 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

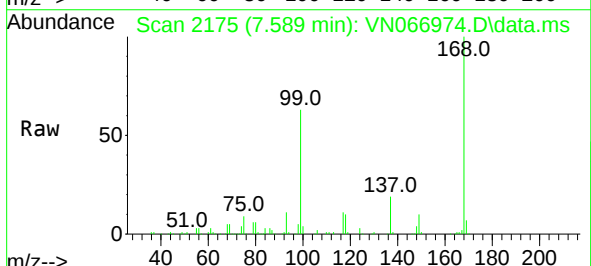
Instrument :  
MSVOA\_N  
ClientSampled :



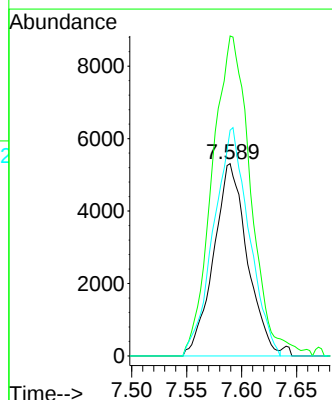
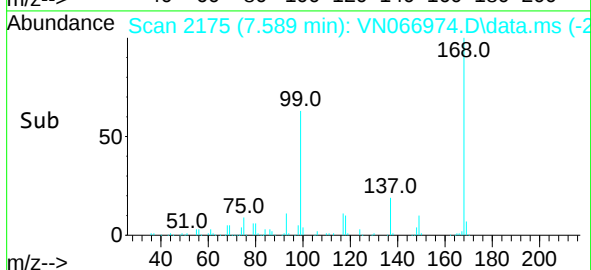
Tgt Ion: 42 Resp: 2088  
Ion Ratio Lower Upper  
42 100  
72 4.3 36.6 55.0#  
71 11.9 34.3 51.5#

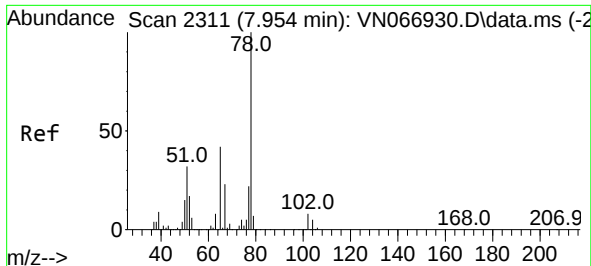


#31  
Cyclohexane  
Concen: 1.09 ug/l  
RT: 7.589 min Scan# 2175  
Delta R.T. 0.010 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34



Tgt Ion: 56 Resp: 11298  
Ion Ratio Lower Upper  
56 100  
69 166.3 26.6 39.8#  
84 117.3 70.4 105.6#

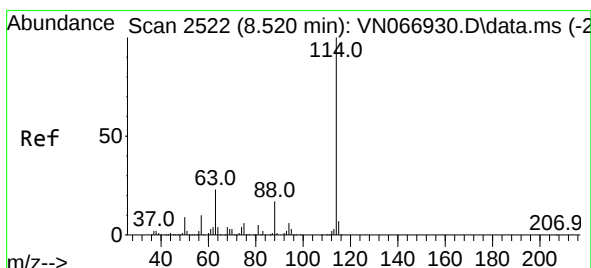
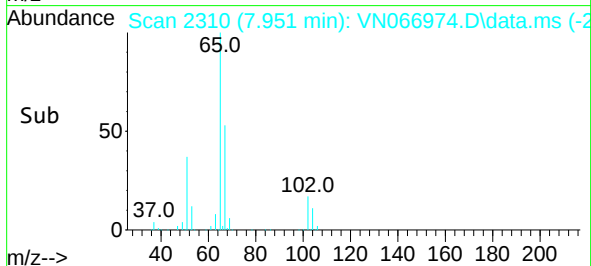
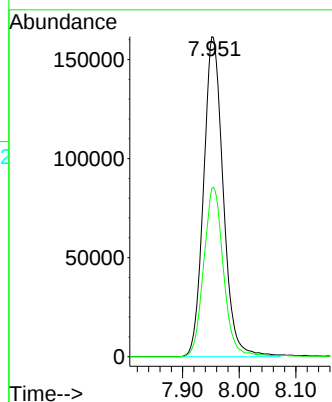
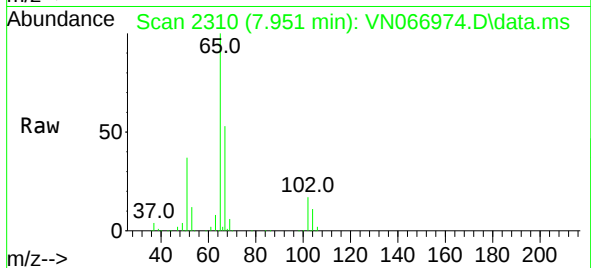




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.89 ug/l  
 RT: 7.951 min Scan# 2310  
 Delta R.T. -0.003 min  
 Lab File: VN066974.D  
 Acq: 5 May 2021 7:34

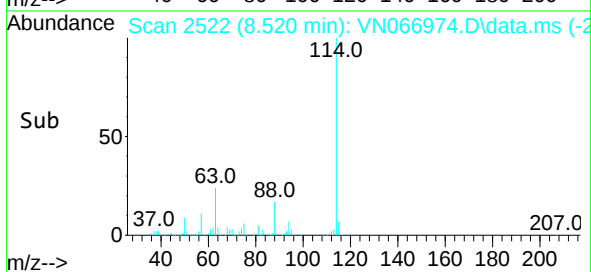
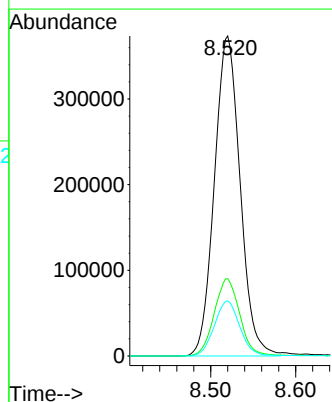
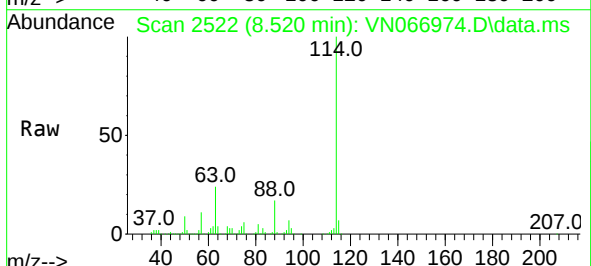
Instrument :  
 MSVOA\_N  
 ClientSampleId :

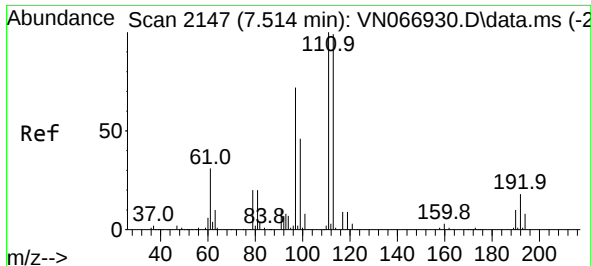
Tgt Ion: 65 Resp: 388602  
 Ion Ratio Lower Upper  
 65 100  
 67 52.4 0.0 107.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.520 min Scan# 2522  
 Delta R.T. 0.000 min  
 Lab File: VN066974.D  
 Acq: 5 May 2021 7:34

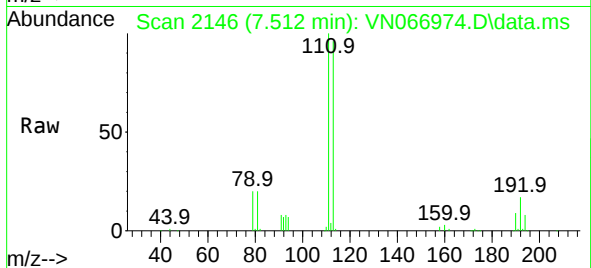
Tgt Ion: 114 Resp: 785533  
 Ion Ratio Lower Upper  
 114 100  
 63 24.1 0.0 38.6  
 88 17.3 0.0 30.6



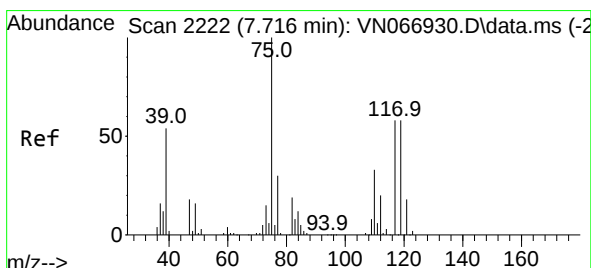
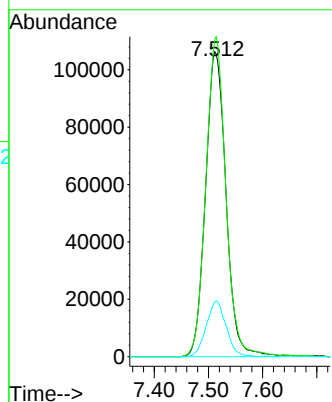
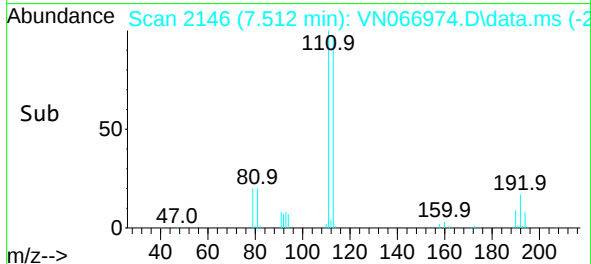


#35  
Dibromofluoromethane  
Concen: 52.39 ug/l  
RT: 7.512 min Scan# 2146  
Delta R.T. -0.002 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

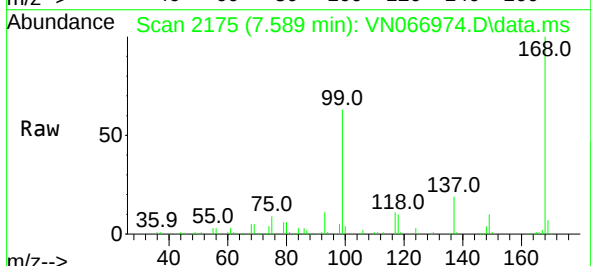
Instrument :  
MSVOA\_N  
ClientSampled :



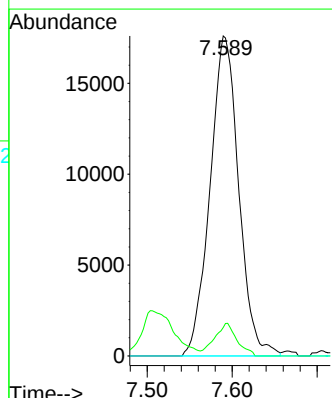
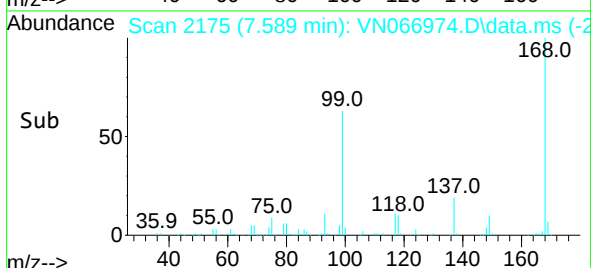
Tgt Ion: 113 Resp: 279447  
Ion Ratio Lower Upper  
113 100  
111 102.3 82.2 123.2  
192 17.6 15.4 23.0

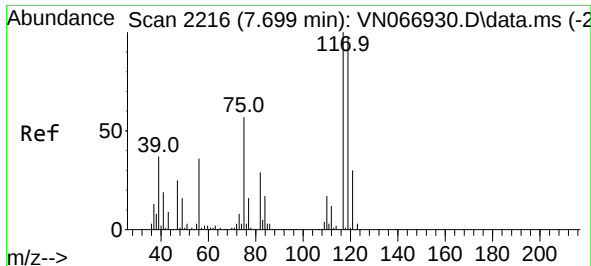


#36  
1,1-Dichloropropene  
Concen: 5.05 ug/l  
RT: 7.589 min Scan# 2175  
Delta R.T. -0.127 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34



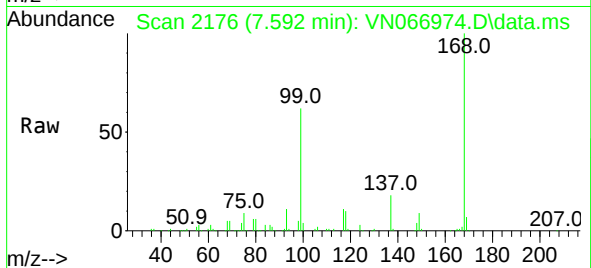
Tgt Ion: 75 Resp: 41313  
Ion Ratio Lower Upper  
75 100  
110 8.0 18.2 54.6#  
77 0.0 24.9 37.3#



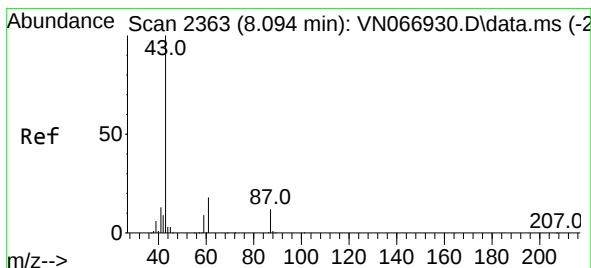
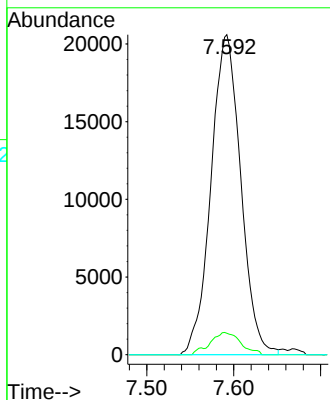
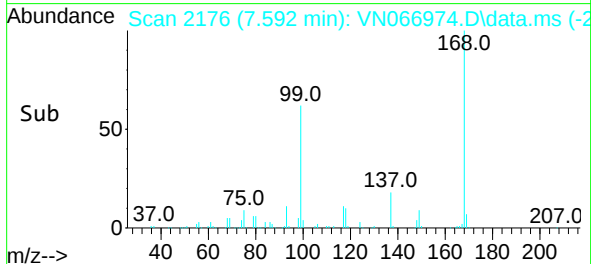


#38  
Carbon Tetrachloride  
Concen: 5.74 ug/l  
RT: 7.592 min Scan# 2176  
Delta R.T. -0.107 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

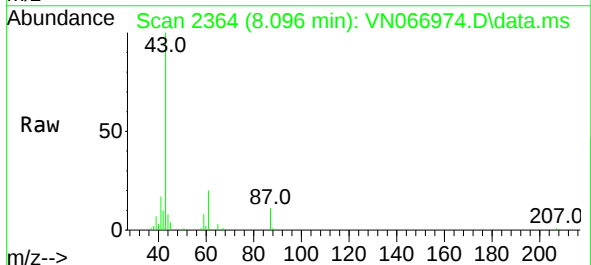
Instrument :  
MSVOA\_N  
ClientSampled :



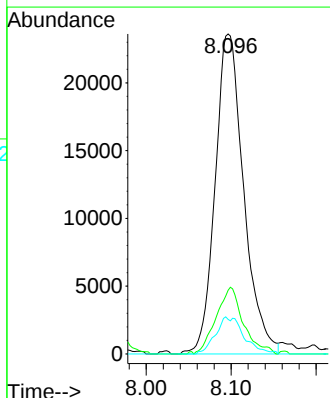
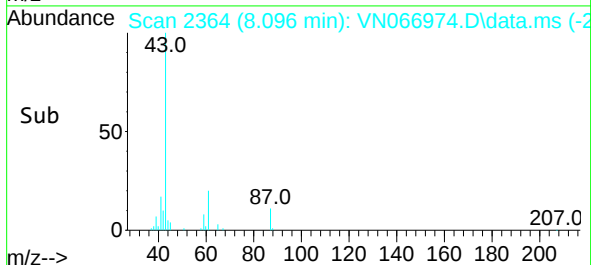
Tgt Ion:117 Resp: 49006  
Ion Ratio Lower Upper  
117 100  
119 6.7 76.0 114.0#  
121 0.0 24.5 36.7#

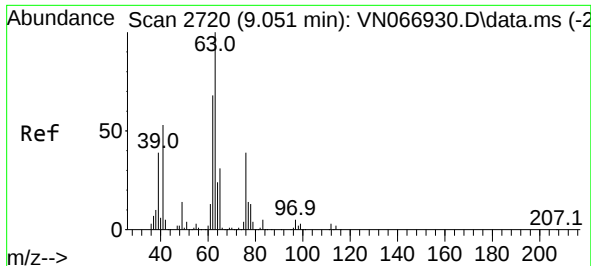


#43  
Isopropyl Acetate  
Concen: 4.07 ug/l  
RT: 8.096 min Scan# 2364  
Delta R.T. 0.002 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34



Tgt Ion: 43 Resp: 55158  
Ion Ratio Lower Upper  
43 100  
61 19.9 22.5 33.7#  
87 6.1 11.1 16.7#



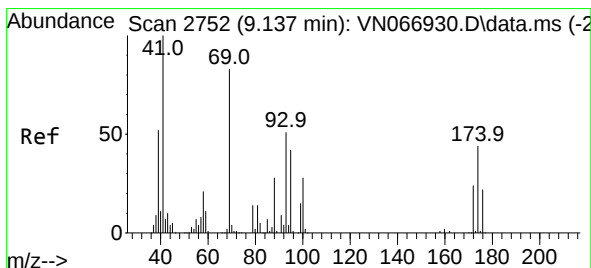
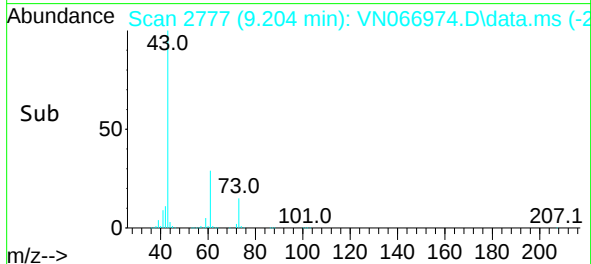
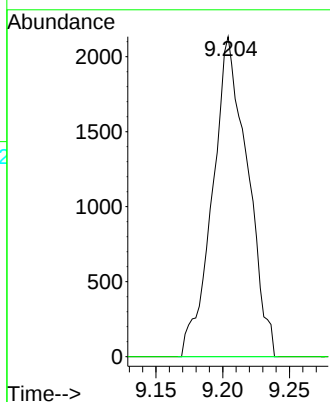
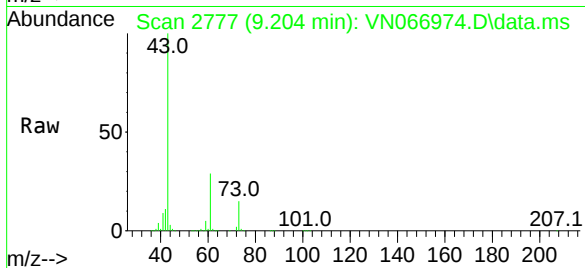


#45

1,2-Dichloropropane  
Concen: 0.54 ug/l  
RT: 9.204 min Scan# 2777  
Delta R.T. 0.153 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

Instrument :  
MSVOA\_N  
ClientSampled :

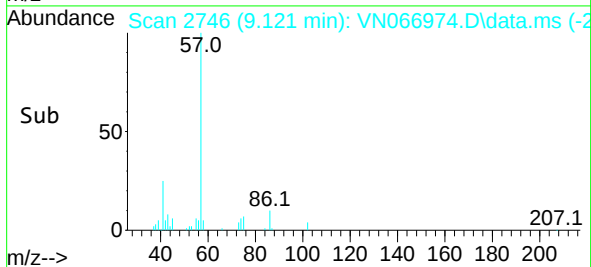
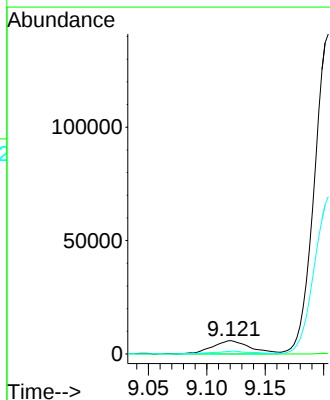
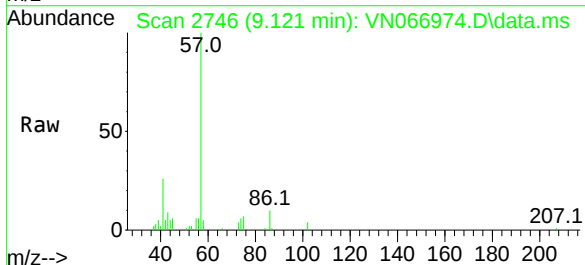
Tgt Ion: 63 Resp: 3887  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.9 37.3#

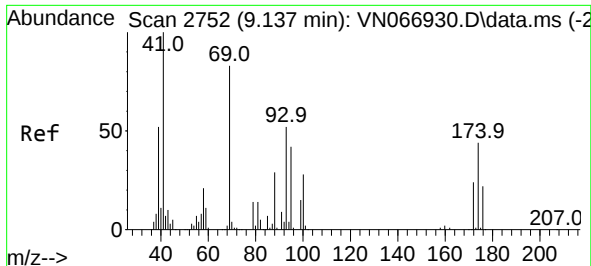


#48

Methyl methacrylate  
Concen: 2.21 ug/l  
RT: 9.121 min Scan# 2746  
Delta R.T. -0.016 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

Tgt Ion: 41 Resp: 13275  
Ion Ratio Lower Upper  
41 100  
69 0.0 75.9 113.9#  
39 0.0 46.6 69.8#





#49

1,4-Dioxane

Concen: 1.49 ug/l

RT: 9.199 min Scan# 2775

Delta R.T. 0.062 min

Lab File: VN066974.D

Acq: 5 May 2021 7:34

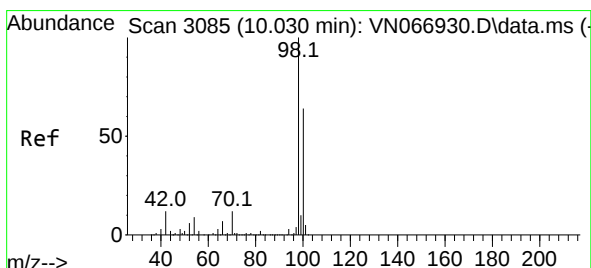
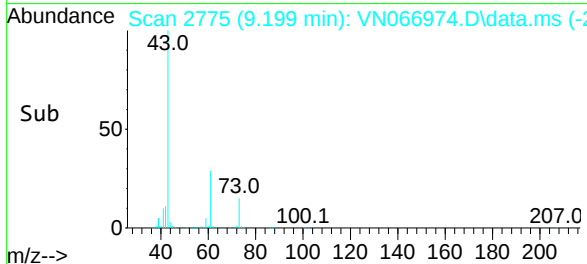
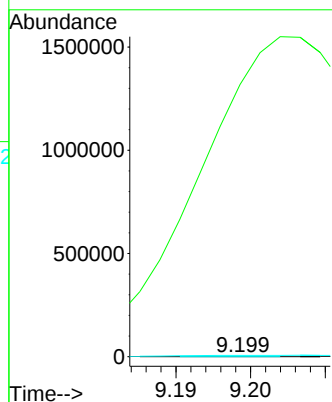
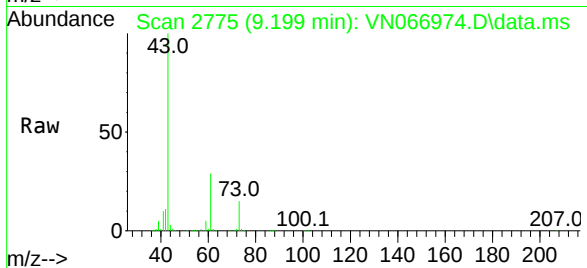
Tgt Ion: 88 Resp: 142

Ion Ratio Lower Upper

88 100

43 2064914.1 24.7 37.1#

58 10446.5 52.6 78.8#



#50

Toluene-d8

Concen: 52.90 ug/l

RT: 10.030 min Scan# 3085

Delta R.T. 0.000 min

Lab File: VN066974.D

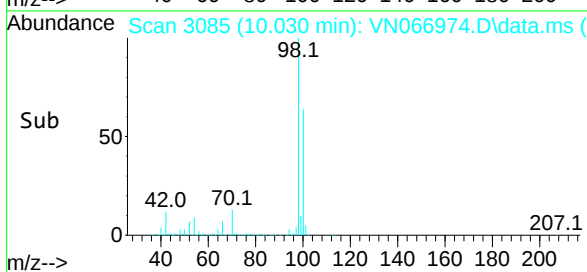
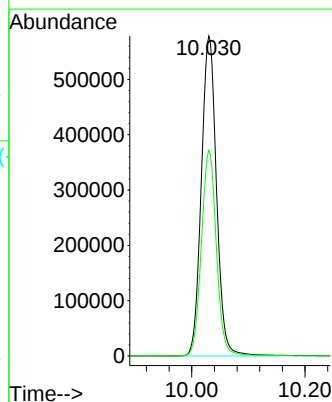
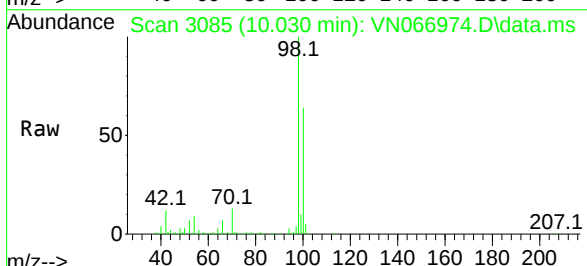
Acq: 5 May 2021 7:34

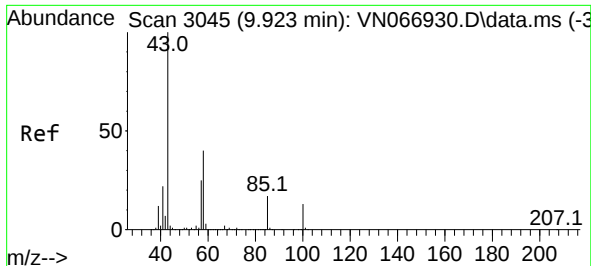
Tgt Ion: 98 Resp: 1074673

Ion Ratio Lower Upper

98 100

100 63.5 50.5 75.7

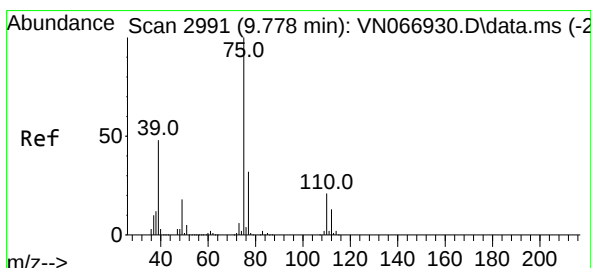
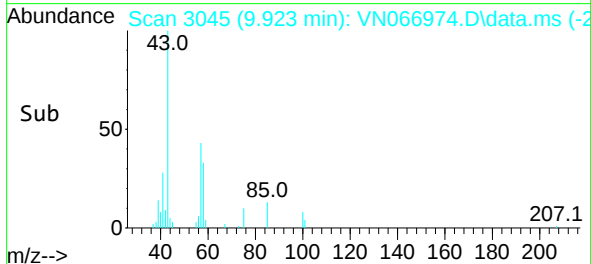
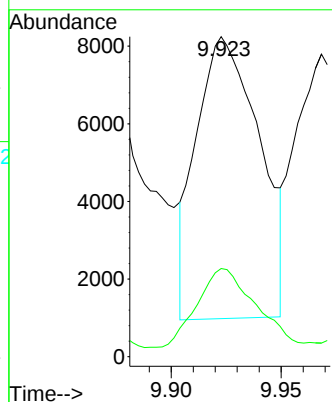
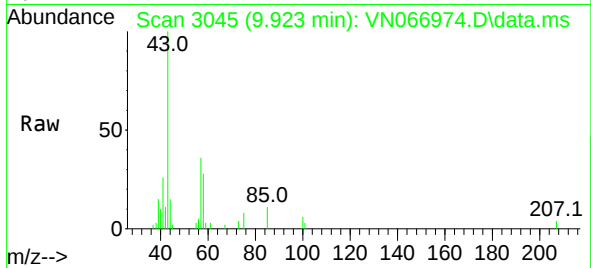




#51  
4-Methyl-2-Pentanone  
Concen: 1.85 ug/l  
RT: 9.923 min Scan# 3045  
Delta R.T. -0.000 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

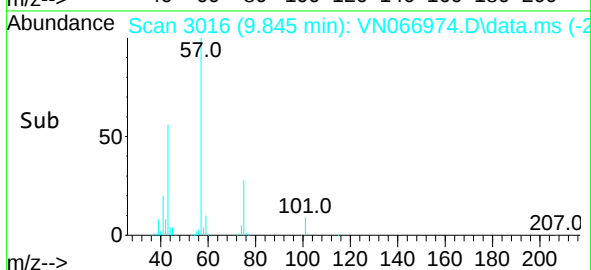
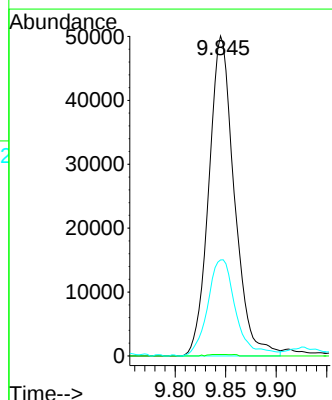
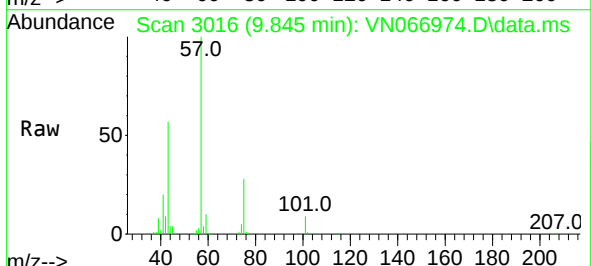
Instrument :  
MSVOA\_N  
ClientSampleId :

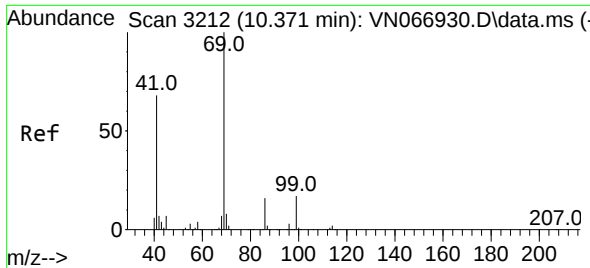
Tgt Ion: 43 Resp: 14464  
Ion Ratio Lower Upper  
43 100  
58 26.5 32.5 48.7#



#54  
cis-1,3-Dichloropropene  
Concen: 8.16 ug/l  
RT: 9.845 min Scan# 3016  
Delta R.T. 0.067 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

Tgt Ion: 75 Resp: 87877  
Ion Ratio Lower Upper  
75 100  
77 0.5 24.9 37.3#  
39 30.0 36.2 54.4#

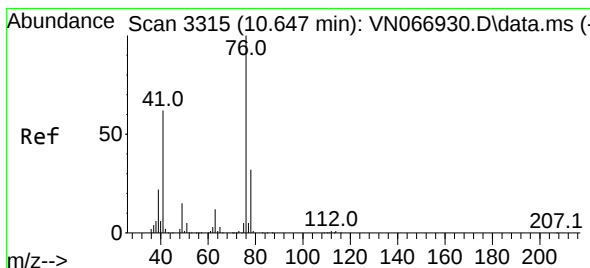
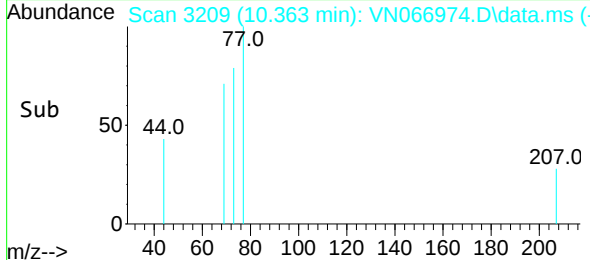
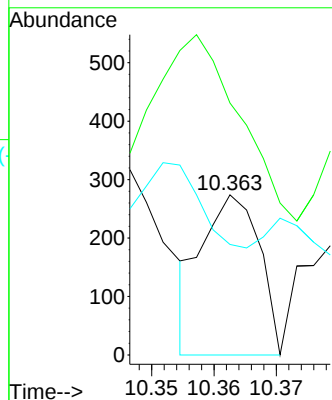
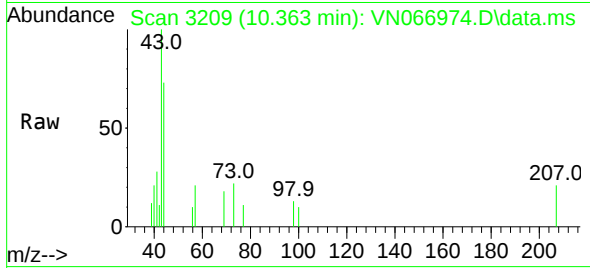




#56  
Ethyl methacrylate  
Concen: 5.21 ug/l  
RT: 10.363 min Scan# 3209  
Delta R.T. -0.008 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

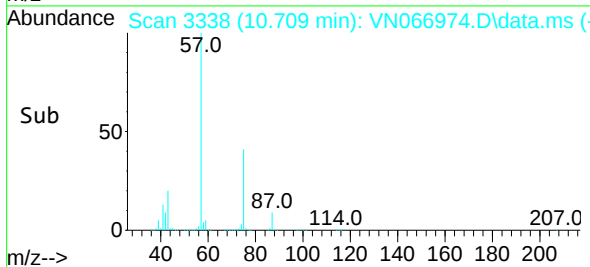
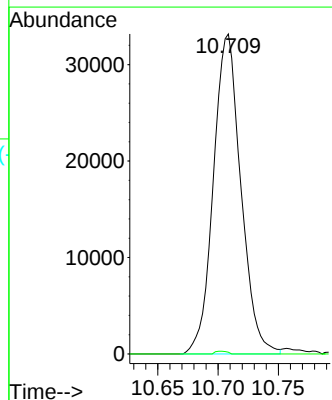
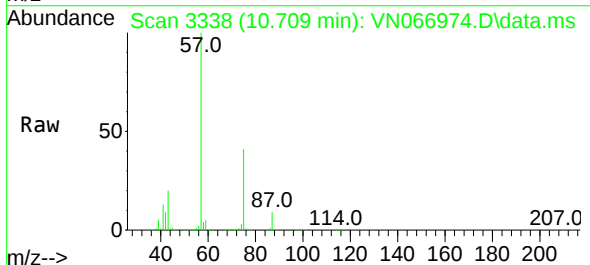
Instrument :  
MSVOA\_N  
ClientSampled :

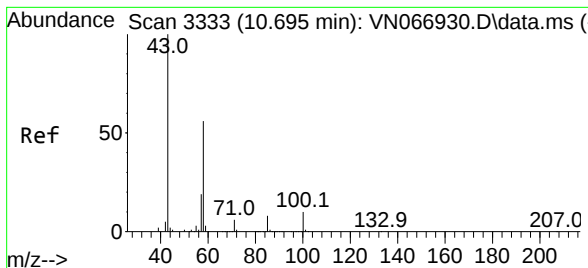
Tgt Ion: 69 Resp: 174  
Ion Ratio Lower Upper  
69 100  
41 0.0 49.6 74.4#  
39 0.0 28.0 42.0#



#57  
1,3-Dichloropropane  
Concen: 4.95 ug/l  
RT: 10.709 min Scan# 3338  
Delta R.T. 0.062 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

Tgt Ion: 76 Resp: 52522  
Ion Ratio Lower Upper  
76 100  
78 0.4 25.7 38.5#

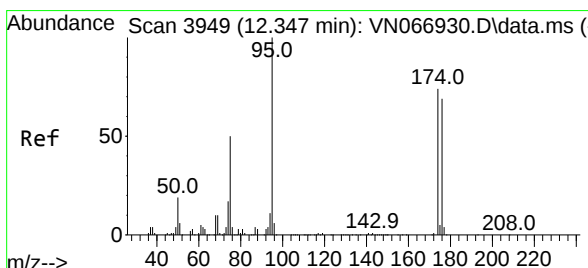
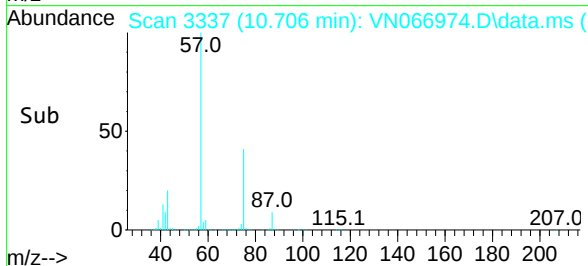
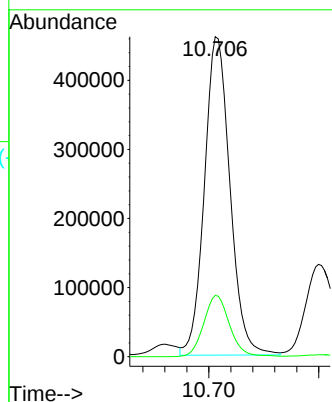
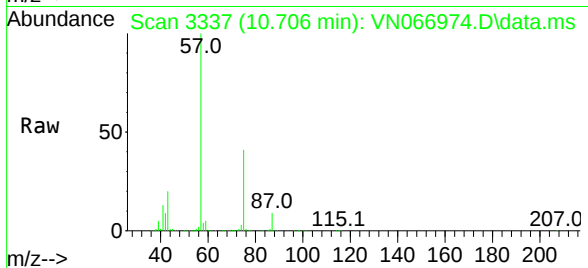




#59  
2-Hexanone  
Concen: 143.74 ug/l  
RT: 10.706 min Scan# 3337  
Delta R.T. 0.011 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

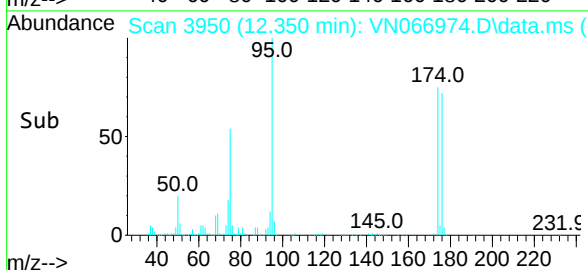
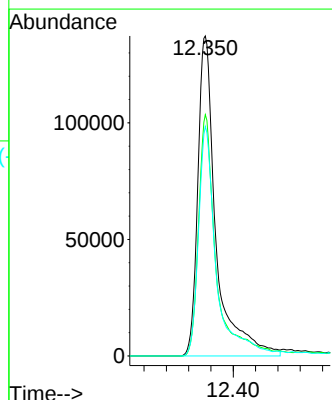
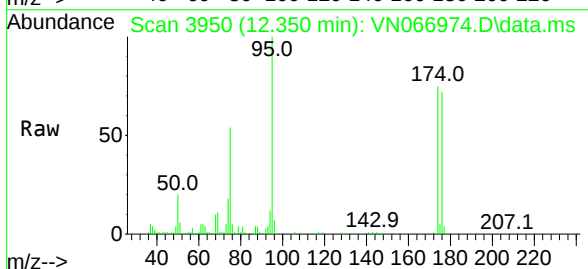
Instrument :  
MSVOA\_N  
ClientSampleId :

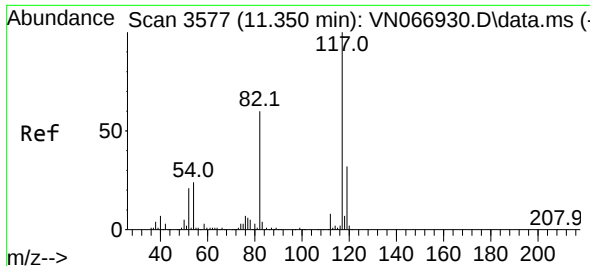
Tgt Ion: 43 Resp: 744078  
Ion Ratio Lower Upper  
43 100  
58 19.6 28.1 84.3#



#62  
4-Bromofluorobenzene  
Concen: 45.35 ug/l  
RT: 12.350 min Scan# 3950  
Delta R.T. 0.003 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

Tgt Ion: 95 Resp: 311939  
Ion Ratio Lower Upper  
95 100  
174 72.4 0.0 169.0  
176 69.6 0.0 162.4

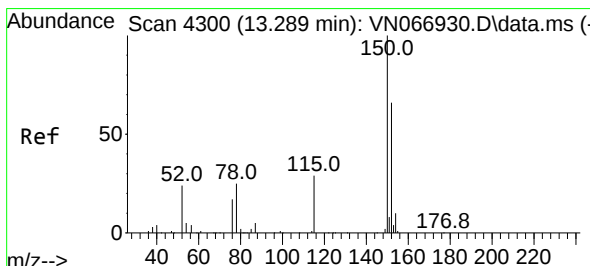
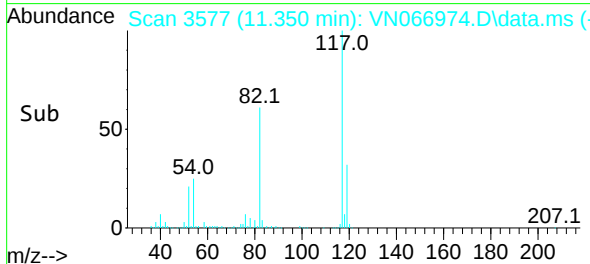
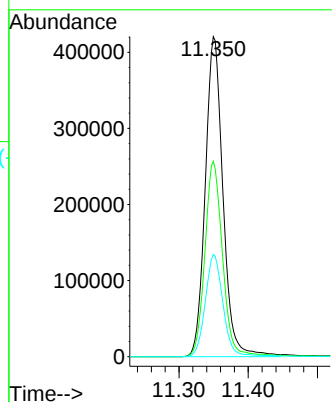
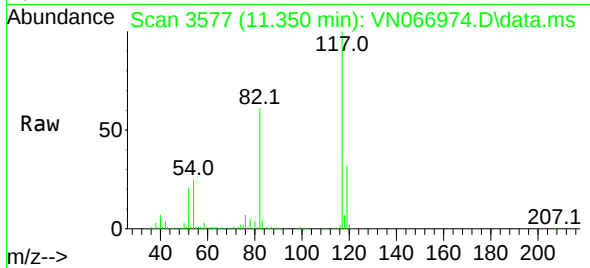




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.350 min Scan# 3577  
Delta R.T. -0.000 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

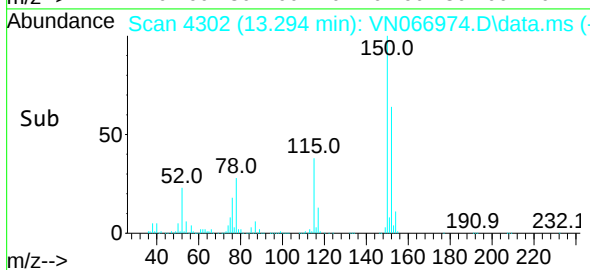
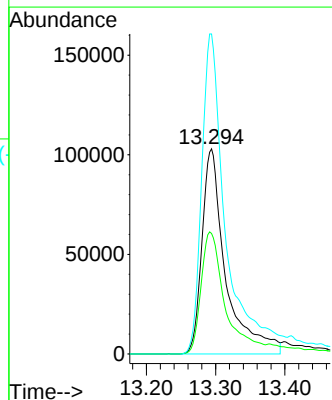
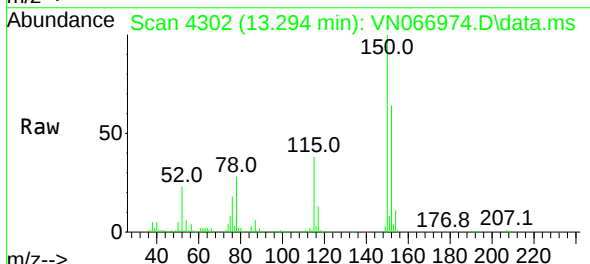
Instrument :  
MSVOA\_N  
ClientSampleId :

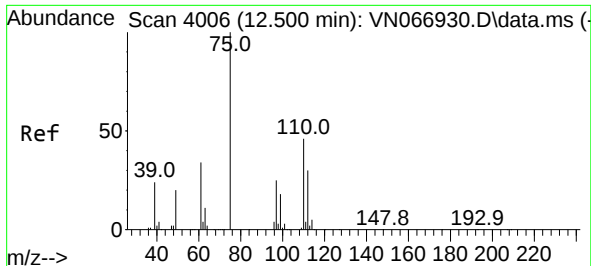
Tgt Ion:117 Resp: 747643  
Ion Ratio Lower Upper  
117 100  
82 61.1 43.7 65.5  
119 31.9 26.1 39.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.294 min Scan# 4302  
Delta R.T. 0.005 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

Tgt Ion:152 Resp: 245913  
Ion Ratio Lower Upper  
152 100  
115 60.3 28.5 85.6  
150 160.0 0.0 347.6

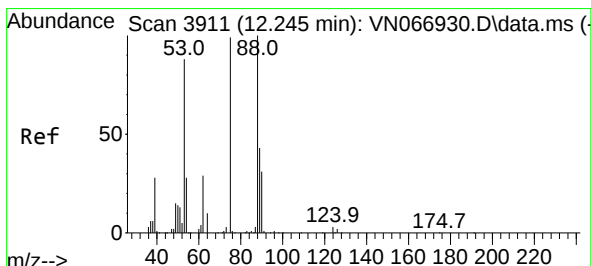
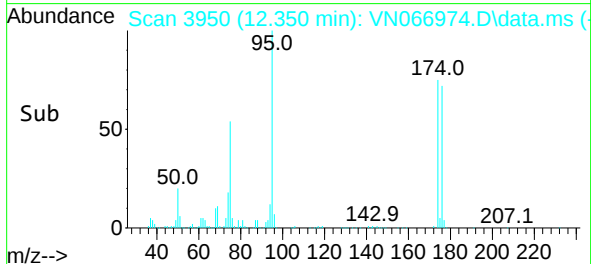
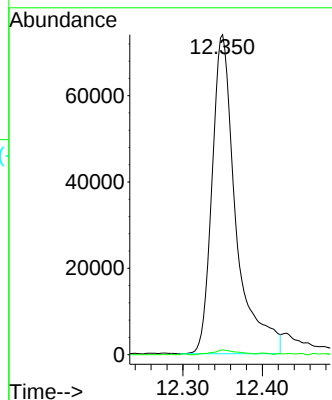
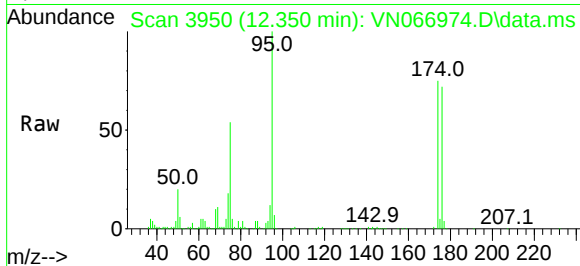




#76  
1,2,3-Trichloropropane  
Concen: 26.39 ug/l  
RT: 12.350 min Scan# 3950  
Delta R.T. -0.150 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

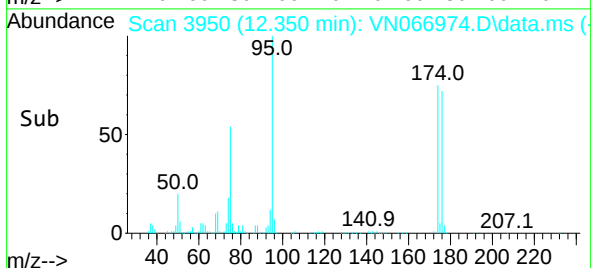
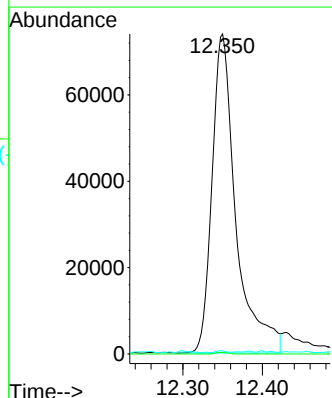
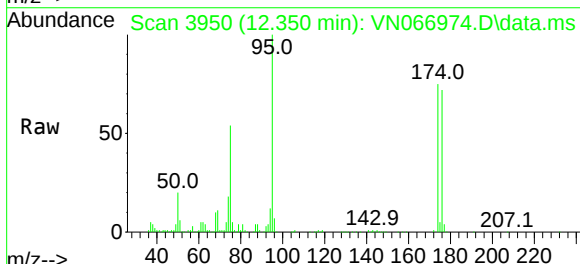
Instrument :  
MSVOA\_N  
ClientSampled :

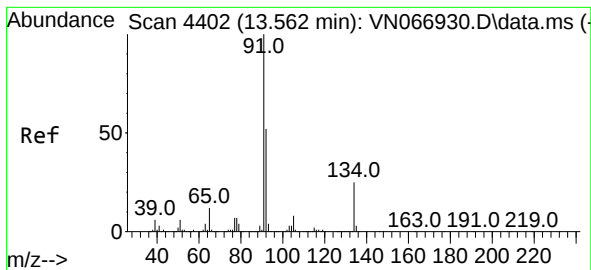
Tgt Ion: 75 Resp: 154596  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 79.11 ug/l  
RT: 12.350 min Scan# 3950  
Delta R.T. 0.105 min  
Lab File: VN066974.D  
Acq: 5 May 2021 7:34

Tgt Ion: 75 Resp: 154596  
Ion Ratio Lower Upper  
75 100  
53 0.2 74.6 111.8#  
89 0.2 35.8 53.8#





#89

n-Butylbenzene

Concen: 5.24 ug/l

RT: 13.329 min Scan# 4315

Delta R.T. -0.233 min

Lab File: VN066974.D

Acq: 5 May 2021 7:34

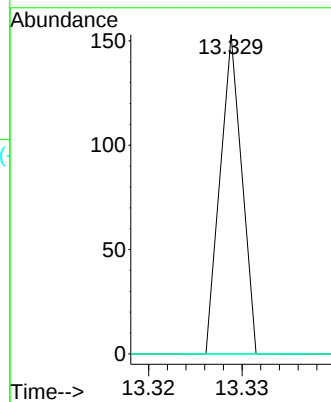
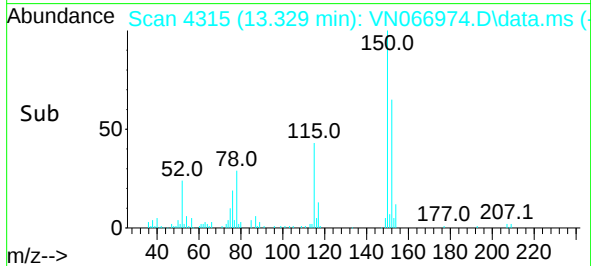
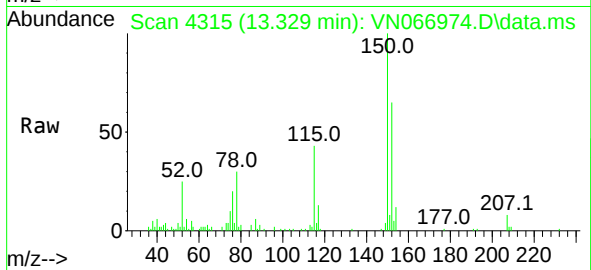
Tgt Ion: 91 Resp: 25

Ion Ratio Lower Upper

91 100

92 0.0 26.1 78.3#

134 0.0 13.0 38.9#



Instrument :  
MSVOA\_N  
ClientSampleId :