

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042921\  
 Data File : VN066864.D  
 Acq On : 29 Apr 2021 16:03  
 Operator : JC/MD  
 Sample : M2138-13  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Apr 30 06:15:25 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 27 16:02:50 2021  
 Response via : Initial Calibration

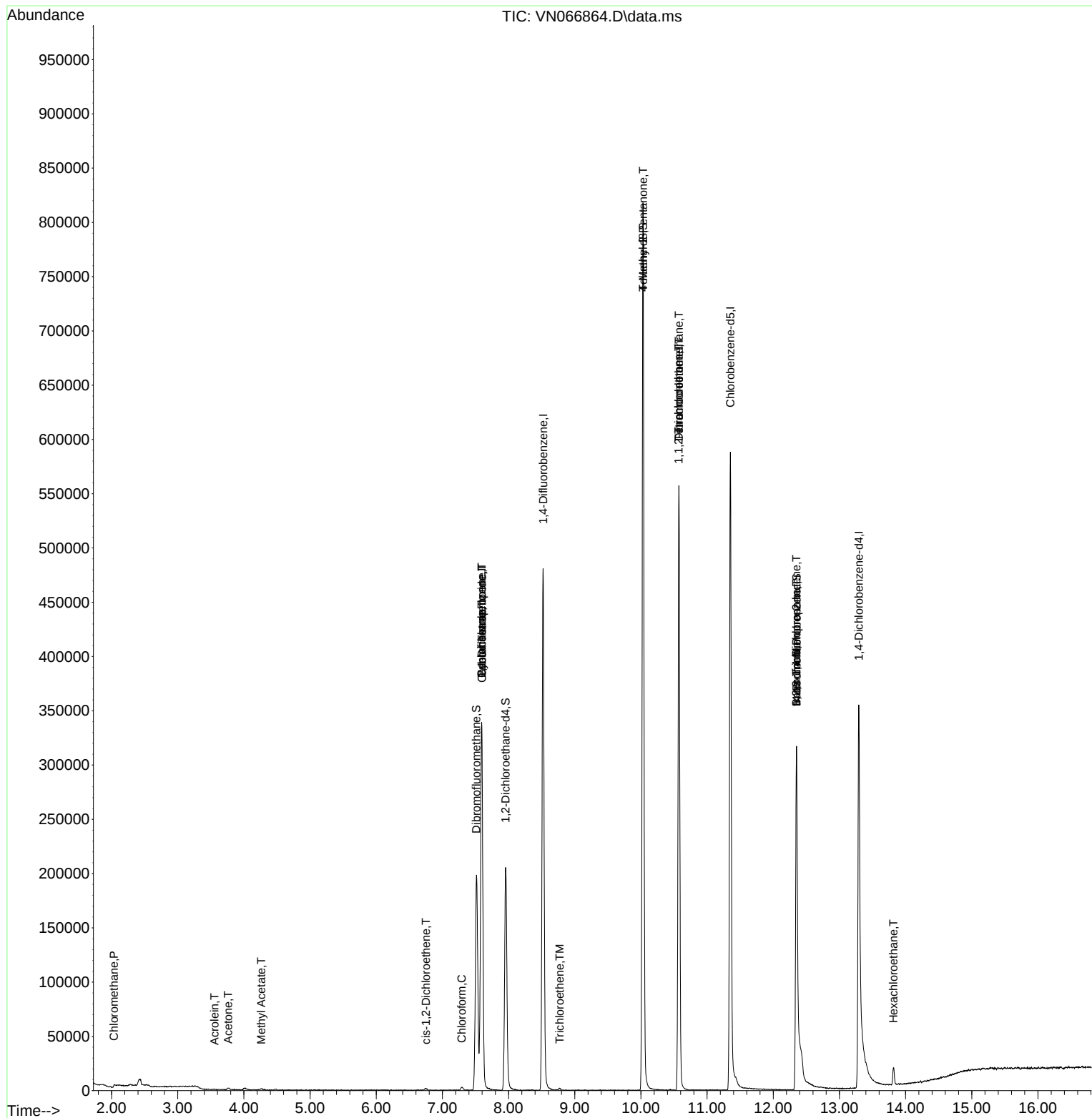
| Compound                      | R.T.           | QIon | Response           | Conc  | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-------|--------|----------|
| -----                         |                |      |                    |       |        |          |
| Internal Standards            |                |      |                    |       |        |          |
| 1) Pentafluorobenzene         | 7.594          | 168  | 305798             | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.522          | 114  | 461773             | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.351         | 117  | 409035             | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.293         | 152  | 162868             | 50.00 | ug/l   | 0.00     |
|                               |                |      |                    |       |        |          |
| System Monitoring Compounds   |                |      |                    |       |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.956          | 65   | 178192             | 45.35 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 90.70%  |       |        |          |
| 35) Dibromofluoromethane      | 7.513          | 113  | 160188             | 56.20 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 112.40% |       |        |          |
| 50) Toluene-d8                | 10.031         | 98   | 589345             | 52.67 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 105.34% |       |        |          |
| 62) 4-Bromofluorobenzene      | 12.351         | 95   | 167717             | 44.30 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 88.60%  |       |        |          |
|                               |                |      |                    |       |        |          |
| Target Compounds              |                |      |                    |       | Qvalue |          |
| 3) Chloromethane              | 2.037          | 50   | 899                | 0.21  | ug/l   | 95       |
| 13) Acrolein                  | 3.555          | 56   | 286                | 0.57  | ug/l # | 64       |
| 16) Acetone                   | 3.761          | 43   | 2624               | 1.77  | ug/l # | 78       |
| 18) Methyl Acetate            | 4.263          | 43   | 995                | 1.36  | ug/l # | 82       |
| 27) cis-1,2-Dichloroethene    | 6.751          | 96   | 1156               | 0.30  | ug/l   | 74       |
| 30) Chloroform                | 7.291          | 83   | 1937               | 0.31  | ug/l   | 96       |
| 31) Cyclohexane               | 7.594          | 56   | 4723               | 0.78  | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.594          | 75   | 19335              | 4.51  | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.596          | 117  | 26032              | 6.33  | ug/l # | 17       |
| 44) Trichloroethene           | 8.771          | 130  | 727                | 0.22  | ug/l   | 82       |
| 51) 4-Methyl-2-Pentanone      | 10.031         | 43   | 2237               | 0.57  | ug/l # | 1        |
| 55) 1,1,2-Trichloroethane     | 10.571         | 97   | 879                | 0.29  | ug/l # | 1        |
| 60) Dibromochloromethane      | 10.573         | 129  | 122540             | 36.56 | ug/l # | 11       |
| 64) Tetrachloroethene         | 10.573         | 164  | 142085             | 52.53 | ug/l   | 98       |
| 71) Bromoform                 | 12.349         | 173  | 918                | 0.41  | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.349         | 75   | 74464              | 21.69 | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.349         | 75   | 74464              | 59.10 | ug/l # | 12       |
| 90) Hexachloroethane          | 13.816         | 117  | 3879               | 1.93  | ug/l   | 88       |
| -----                         |                |      |                    |       |        |          |

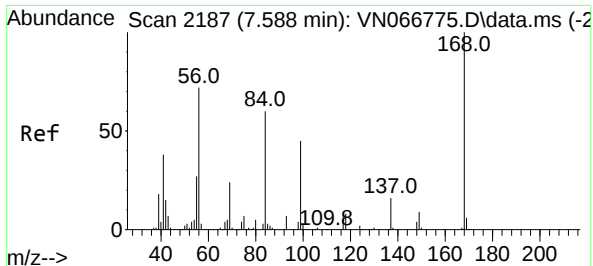
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042921\  
Data File : VN066864.D  
Acq On : 29 Apr 2021 16:03  
Operator : JC/MD  
Sample : M2138-13  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Apr 30 06:15:25 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042721W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 27 16:02:50 2021  
Response via : Initial Calibration

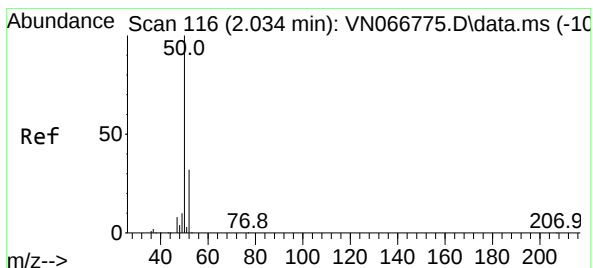
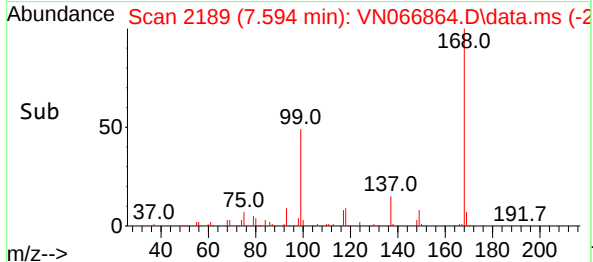
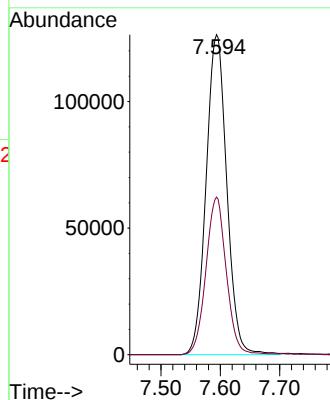
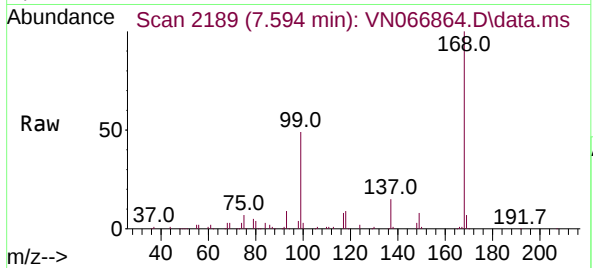




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.594 min Scan# 2189  
Delta R.T. 0.006 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

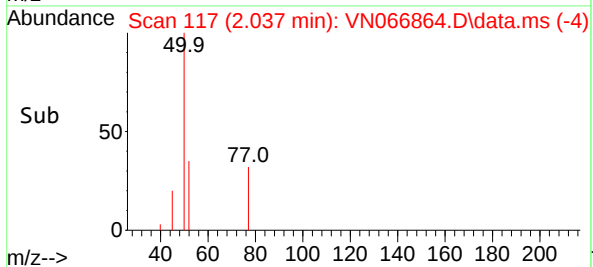
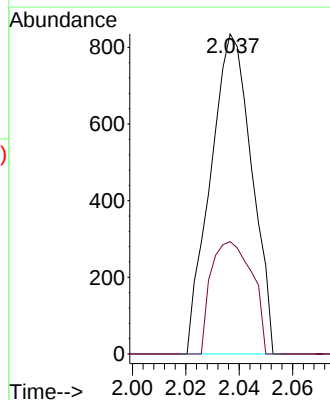
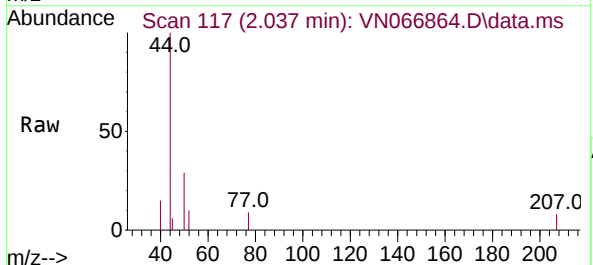
Instrument :  
MSVOA\_N  
ClientSampleId :

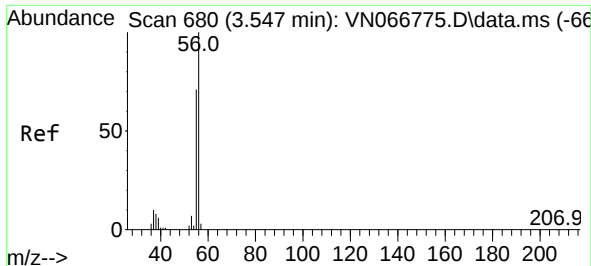
Tgt Ion:168 Resp: 305798  
Ion Ratio Lower Upper  
168 100  
99 49.3 42.6 63.8



#3  
Chloromethane  
Concen: 0.21 ug/l  
RT: 2.037 min Scan# 117  
Delta R.T. 0.003 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

Tgt Ion: 50 Resp: 899  
Ion Ratio Lower Upper  
50 100  
52 35.1 25.8 38.8

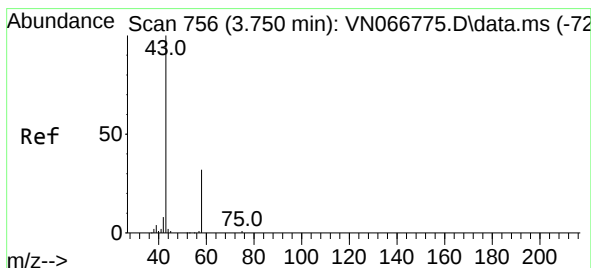
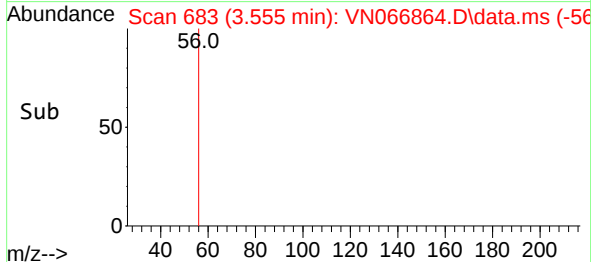
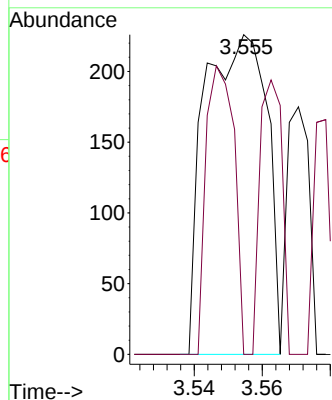
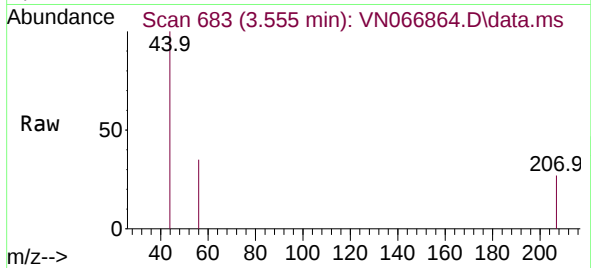




#13  
Acrolein  
Concen: 0.57 ug/l  
RT: 3.555 min Scan# 683  
Delta R.T. 0.008 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

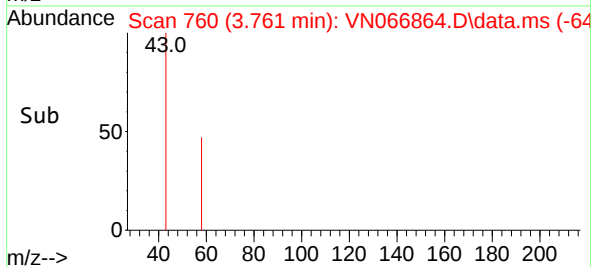
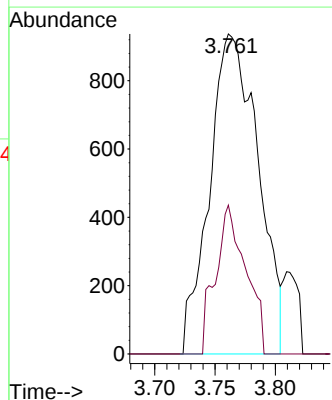
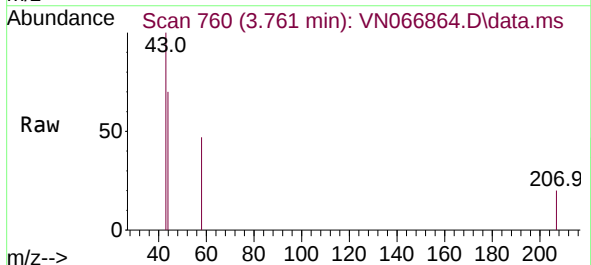
Instrument :  
MSVOA\_N  
ClientSampled :

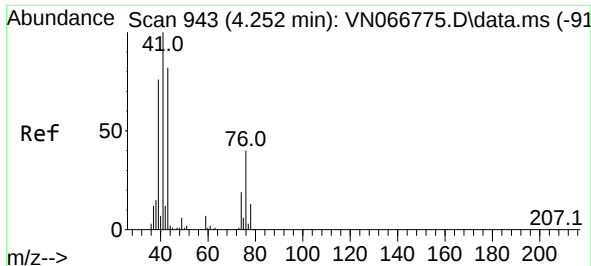
Tgt Ion: 56 Resp: 286  
Ion Ratio Lower Upper  
56 100  
55 40.6 56.0 84.0#



#16  
Acetone  
Concen: 1.77 ug/l  
RT: 3.761 min Scan# 760  
Delta R.T. 0.011 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

Tgt Ion: 43 Resp: 2624  
Ion Ratio Lower Upper  
43 100  
58 46.5 27.0 40.6#





#18

Methyl Acetate

Concen: 1.36 ug/l

RT: 4.263 min Scan# 947

Delta R.T. 0.011 min

Lab File: VN066864.D

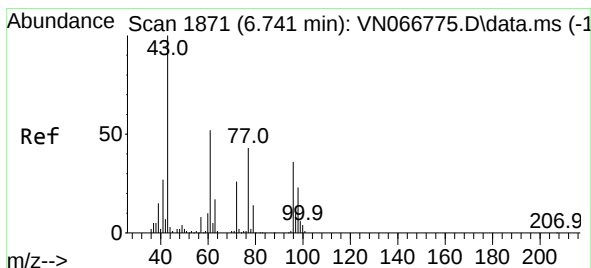
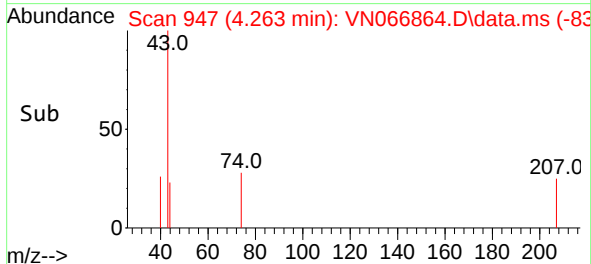
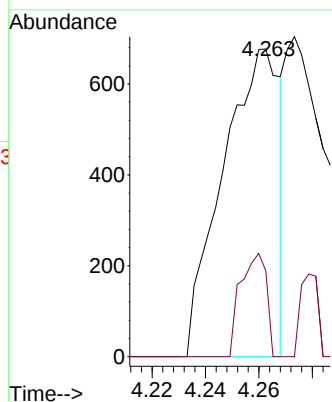
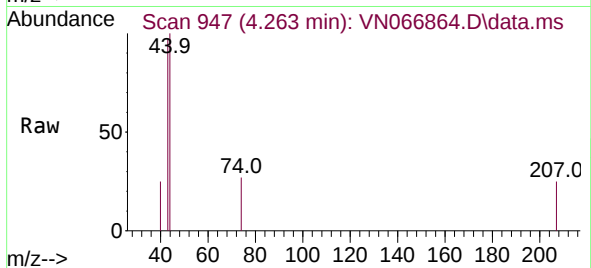
Acq: 29 Apr 2021 16:03

Tgt Ion: 43 Resp: 995

Ion Ratio Lower Upper

43 100

74 15.4 19.5 29.3#



#27

cis-1,2-Dichloroethene

Concen: 0.30 ug/l

RT: 6.751 min Scan# 1875

Delta R.T. 0.010 min

Lab File: VN066864.D

Acq: 29 Apr 2021 16:03

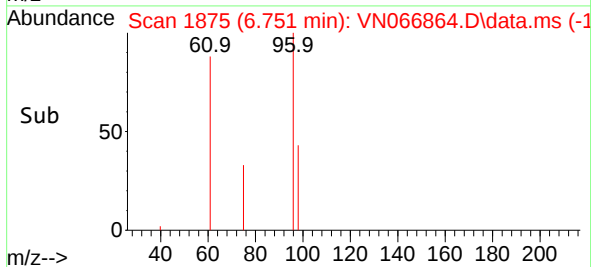
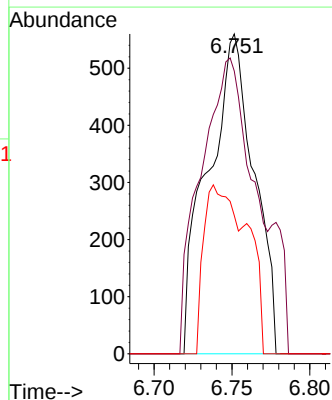
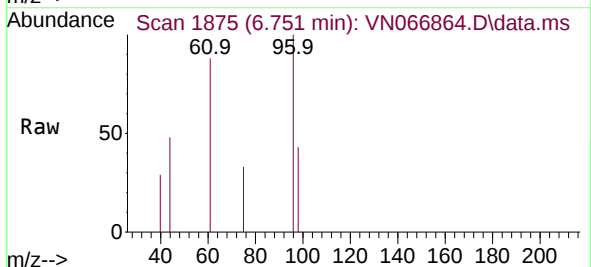
Tgt Ion: 96 Resp: 1156

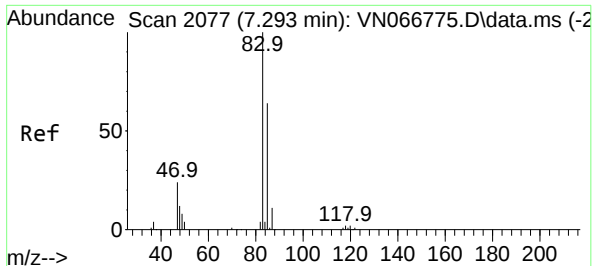
Ion Ratio Lower Upper

96 100

61 102.4 0.0 276.8

98 49.4 0.0 129.4





#30

Chloroform

Concen: 0.31 ug/l

RT: 7.291 min Scan# 2076

Delta R.T. -0.002 min

Lab File: VN066864.D

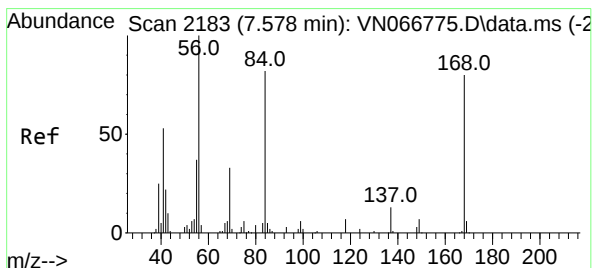
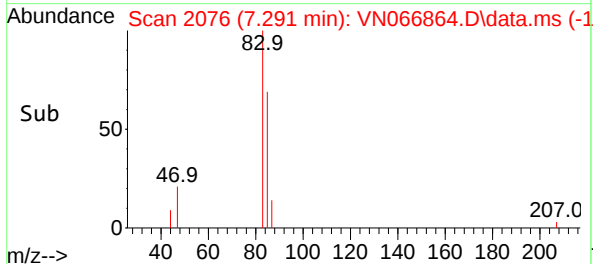
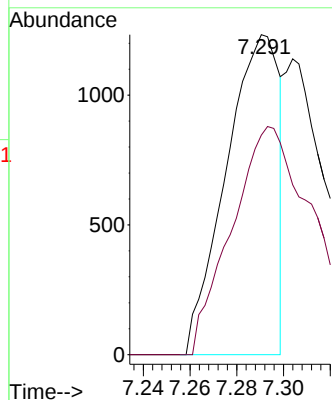
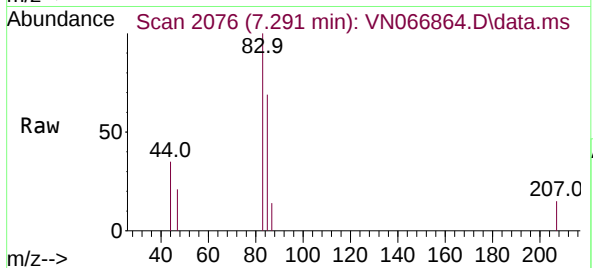
Acq: 29 Apr 2021 16:03

Tgt Ion: 83 Resp: 1937

Ion Ratio Lower Upper

83 100

85 68.6 52.6 78.8



#31

Cyclohexane

Concen: 0.78 ug/l

RT: 7.594 min Scan# 2189

Delta R.T. 0.016 min

Lab File: VN066864.D

Acq: 29 Apr 2021 16:03

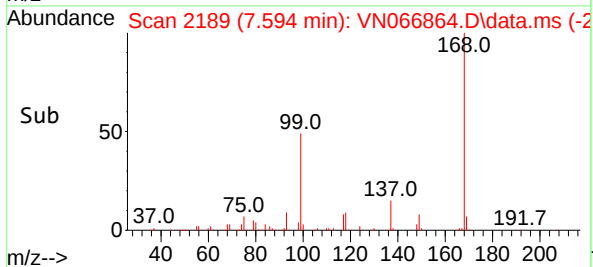
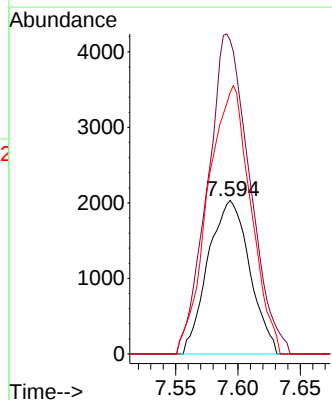
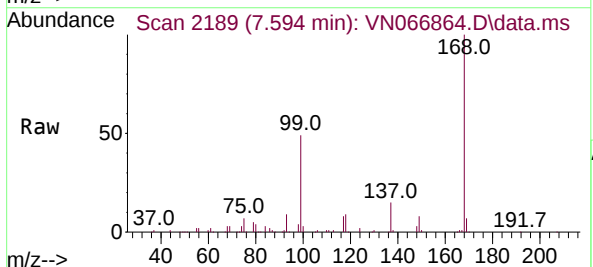
Tgt Ion: 56 Resp: 4723

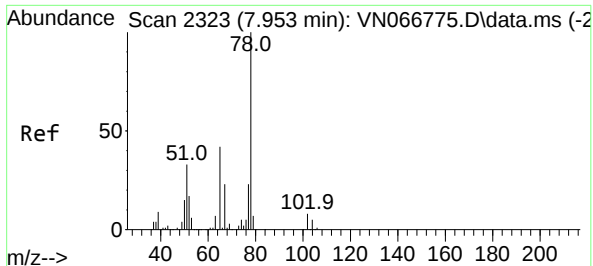
Ion Ratio Lower Upper

56 100

69 195.5 26.6 39.8#

84 170.2 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 45.35 ug/l

RT: 7.956 min Scan# 2324

Delta R.T. 0.003 min

Lab File: VN066864.D

Acq: 29 Apr 2021 16:03

Tgt Ion: 65 Resp: 178192

Ion Ratio Lower Upper

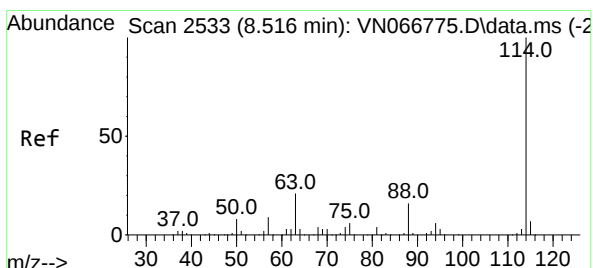
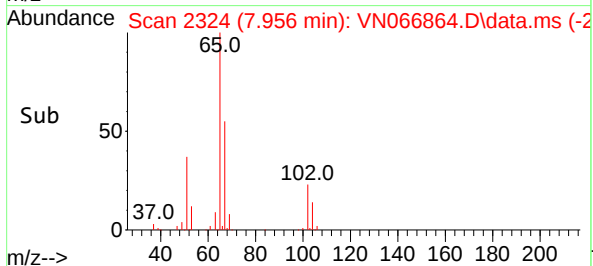
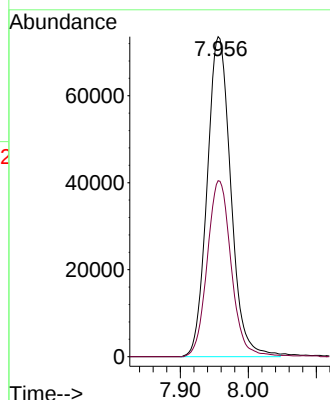
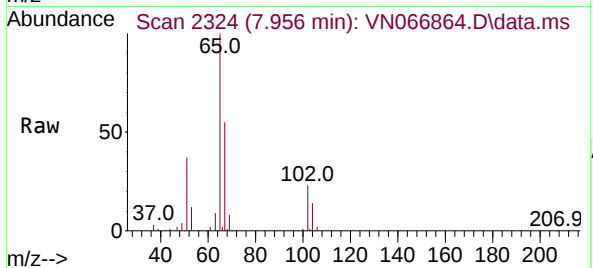
65 100

67 55.7 0.0 107.2

Instrument :

MSVOA\_N

ClientSampled :



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.522 min Scan# 2535

Delta R.T. 0.006 min

Lab File: VN066864.D

Acq: 29 Apr 2021 16:03

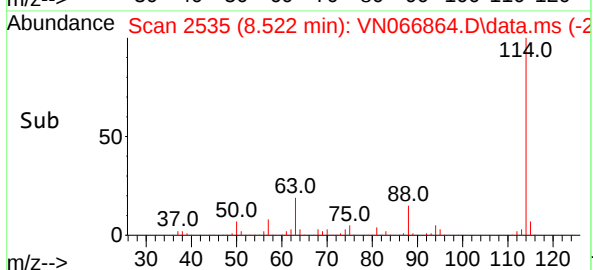
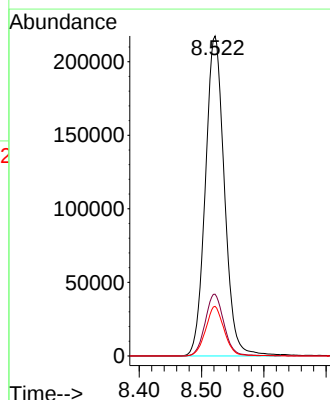
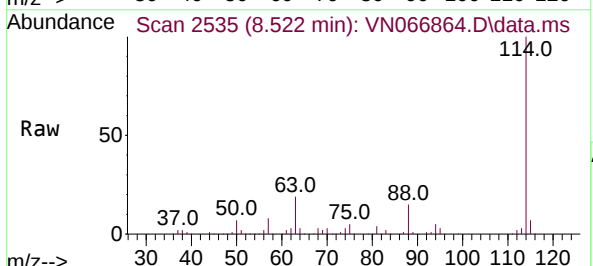
Tgt Ion: 114 Resp: 461773

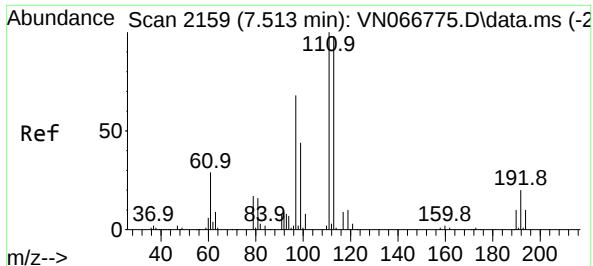
Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.6

88 15.5 0.0 30.6

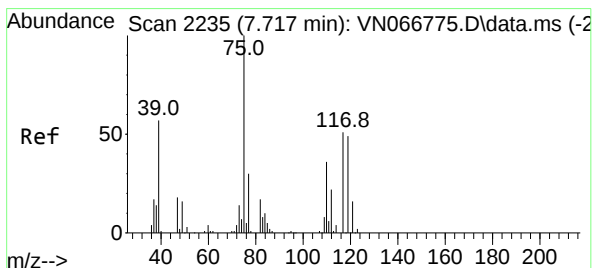
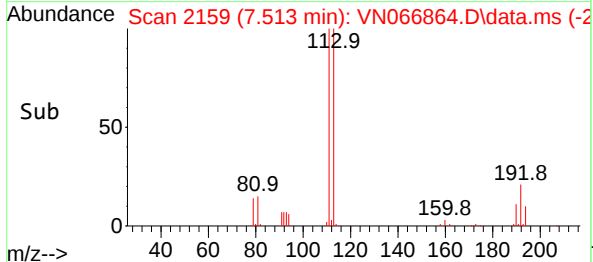
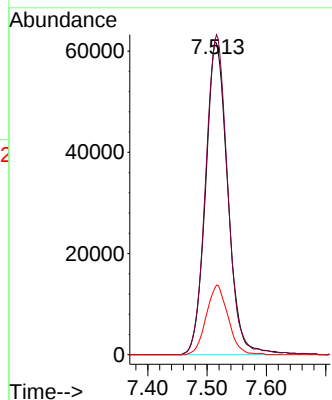
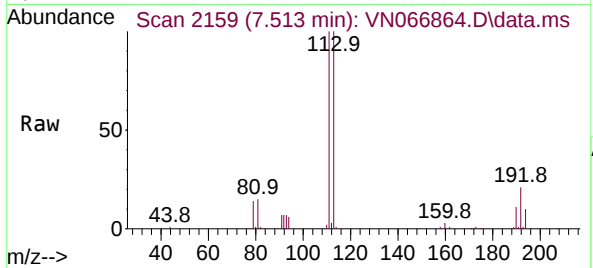




#35  
Dibromofluoromethane  
Concen: 56.20 ug/l  
RT: 7.513 min Scan# 2159  
Delta R.T. 0.000 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

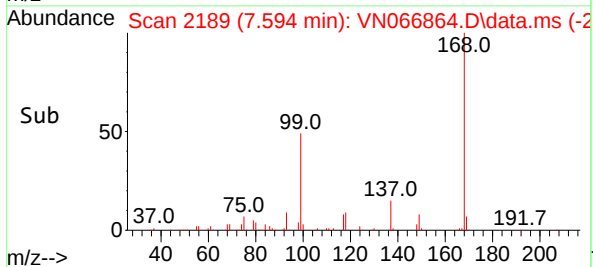
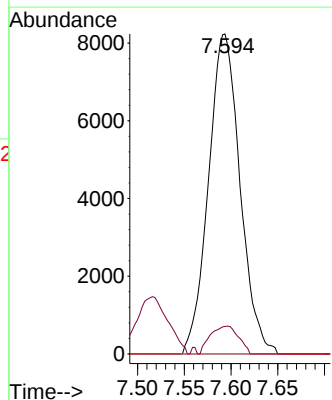
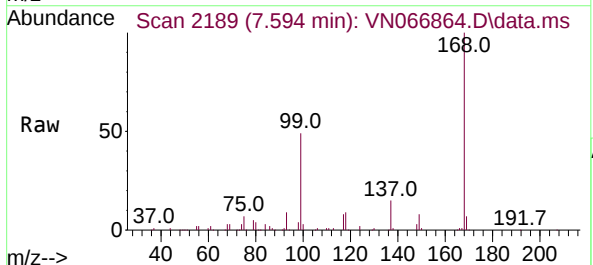
Instrument :  
MSVOA\_N  
ClientSampleId :

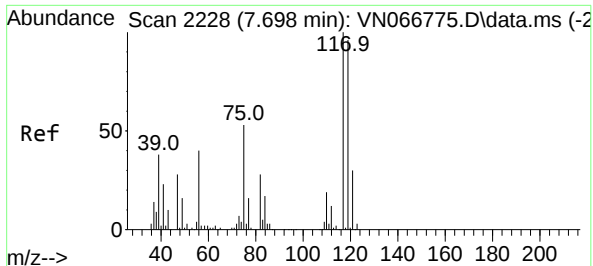
Tgt Ion:113 Resp: 160188  
Ion Ratio Lower Upper  
113 100  
111 101.9 82.2 123.2  
192 21.8 15.4 23.0



#36  
1,1-Dichloropropene  
Concen: 4.51 ug/l  
RT: 7.594 min Scan# 2189  
Delta R.T. -0.123 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

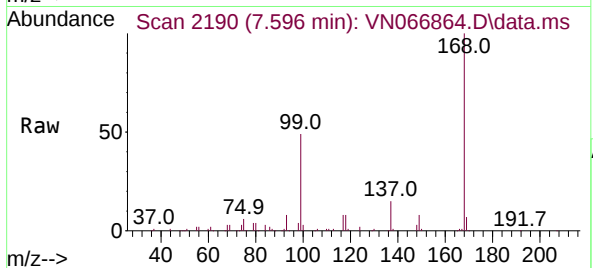
Tgt Ion: 75 Resp: 19335  
Ion Ratio Lower Upper  
75 100  
110 7.8 18.2 54.6#  
77 0.0 24.9 37.3#



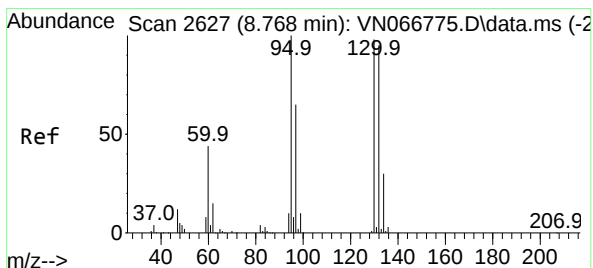
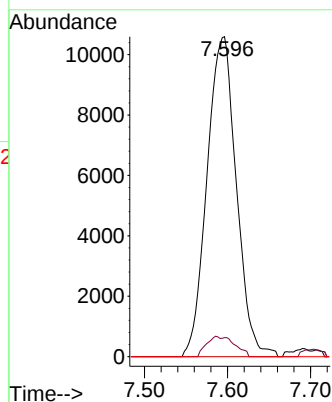
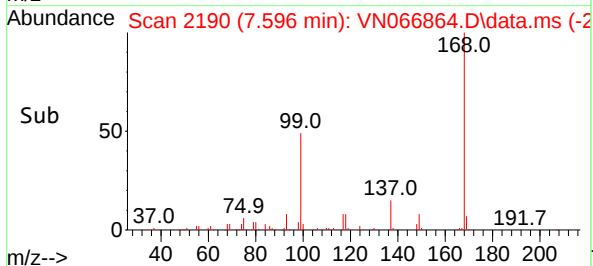


#38  
Carbon Tetrachloride  
Concen: 6.33 ug/l  
RT: 7.596 min Scan# 2190  
Delta R.T. -0.102 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

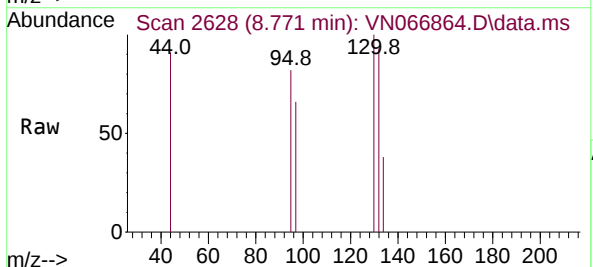
Instrument :  
MSVOA\_N  
ClientSampled :



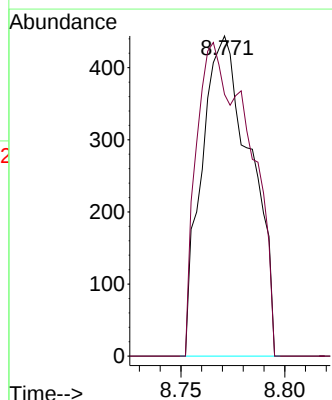
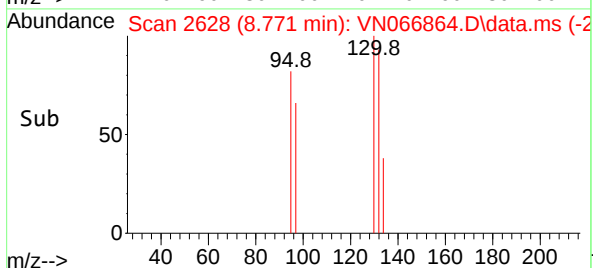
Tgt Ion:117 Resp: 26032  
Ion Ratio Lower Upper  
117 100  
119 5.9 76.0 114.0#  
121 0.0 24.5 36.7#

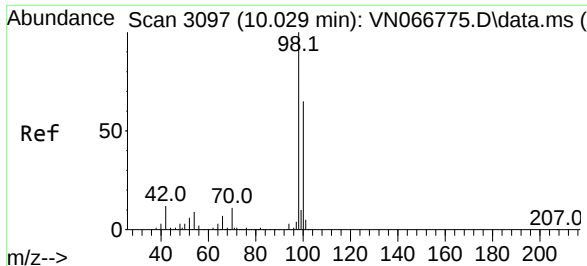


#44  
Trichloroethene  
Concen: 0.22 ug/l  
RT: 8.771 min Scan# 2628  
Delta R.T. 0.003 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03



Tgt Ion:130 Resp: 727  
Ion Ratio Lower Upper  
130 100  
95 81.8 0.0 199.6

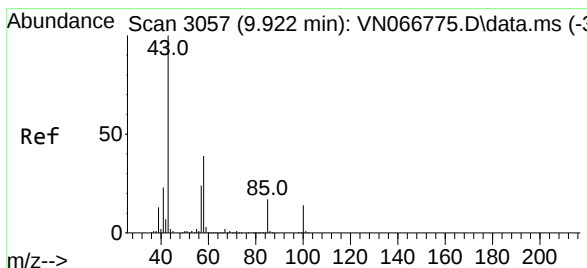
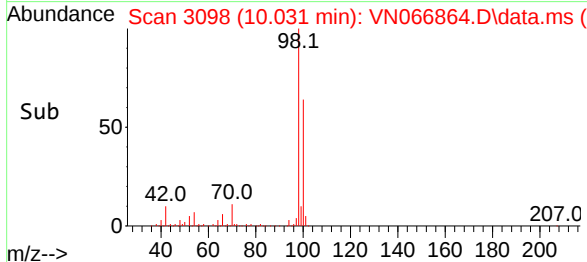
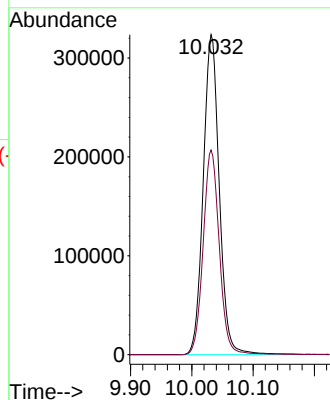
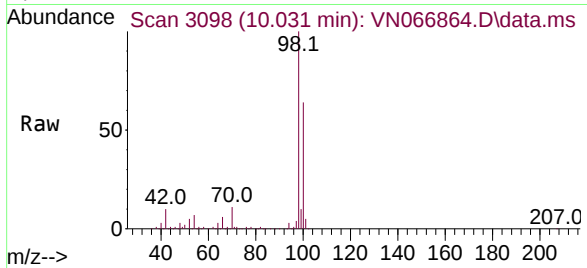




#50  
Toluene-d8  
Concen: 52.67 ug/l  
RT: 10.031 min Scan# 3098  
Delta R.T. 0.002 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

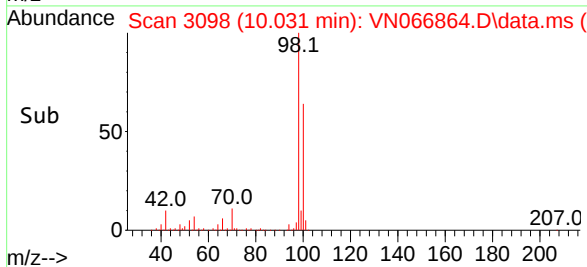
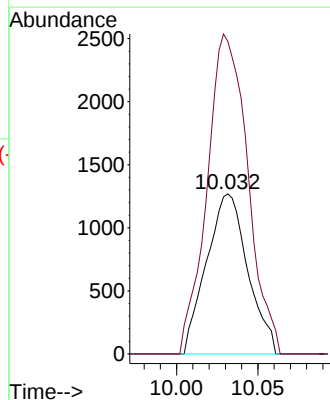
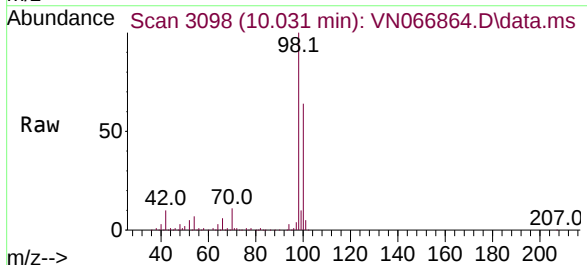
Instrument :  
MSVOA\_N  
ClientSampled :

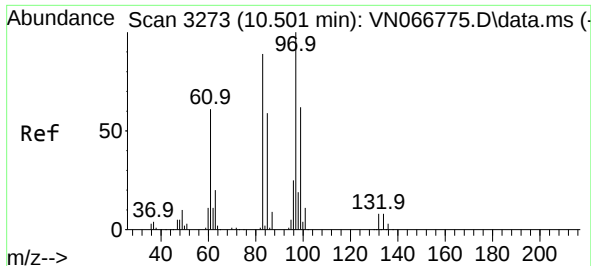
Tgt Ion: 98 Resp: 589345  
Ion Ratio Lower Upper  
98 100  
100 64.2 50.5 75.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.57 ug/l  
RT: 10.031 min Scan# 3098  
Delta R.T. 0.109 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

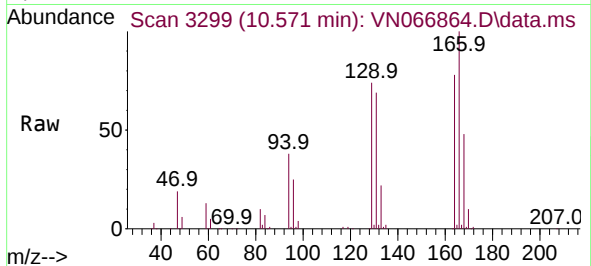
Tgt Ion: 43 Resp: 2237  
Ion Ratio Lower Upper  
43 100  
58 197.3 32.5 48.7#



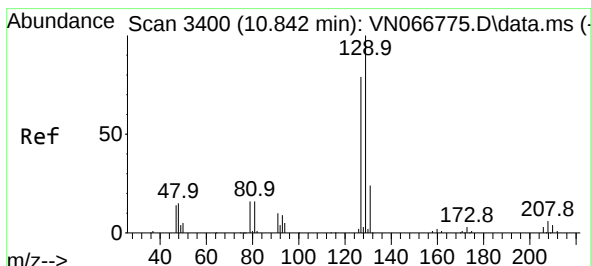
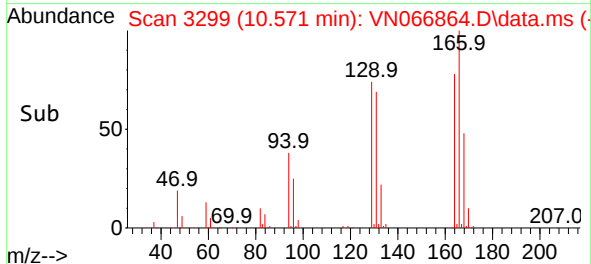
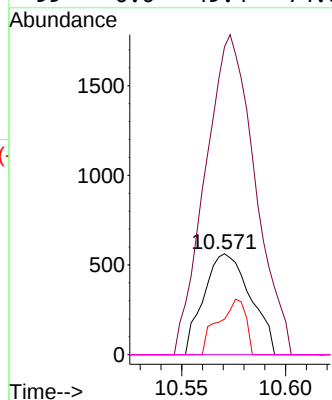


#55  
1,1,2-Trichloroethane  
Concen: 0.29 ug/l  
RT: 10.571 min Scan# 3299  
Delta R.T. 0.070 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

Instrument :  
MSVOA\_N  
ClientSampled :

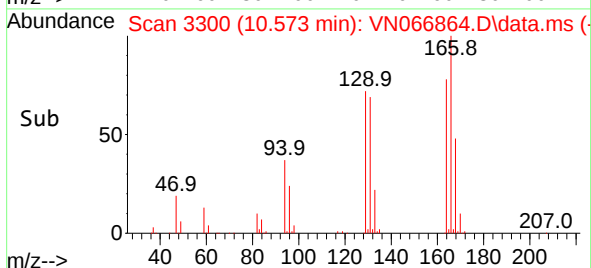
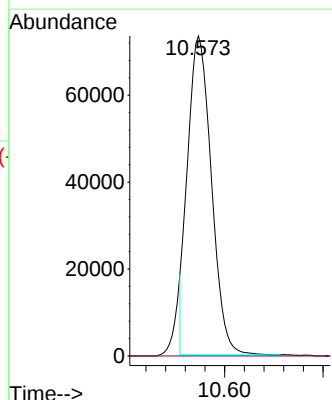
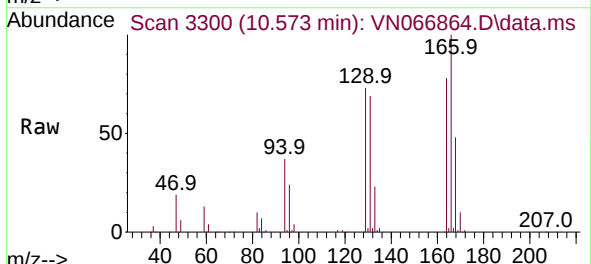


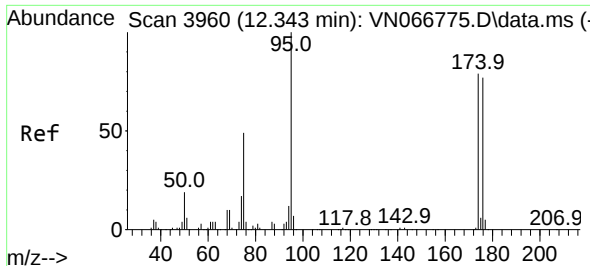
| Tgt Ion: | 97    | Resp: | 879    |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 273.0 | 67.7  | 101.5# |
| 85       | 35.2  | 44.5  | 66.7#  |
| 99       | 0.0   | 49.4  | 74.0#  |



#60  
Dibromochloromethane  
Concen: 36.56 ug/l  
RT: 10.573 min Scan# 3300  
Delta R.T. -0.269 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

| Tgt Ion: | 129   | Resp: | 122540 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 0.0   | 38.5  | 115.5# |

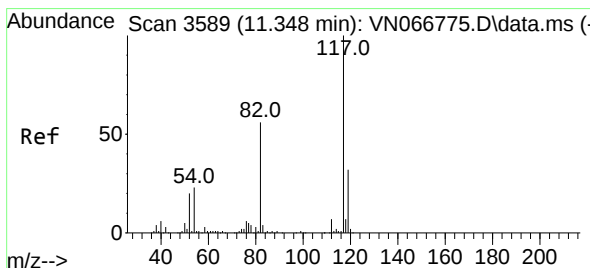
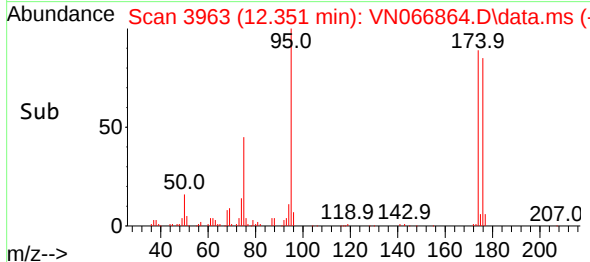
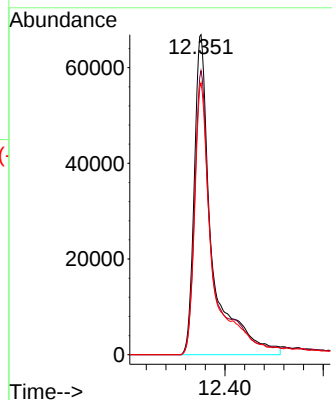
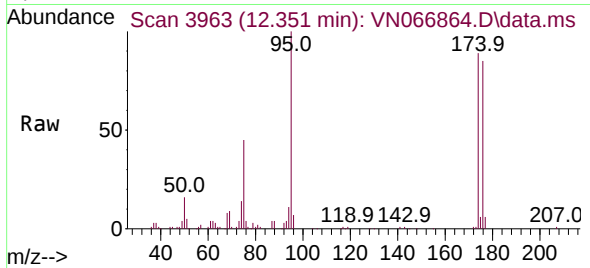




#62  
4-Bromofluorobenzene  
Concen: 44.30 ug/l  
RT: 12.351 min Scan# 3963  
Delta R.T. 0.008 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

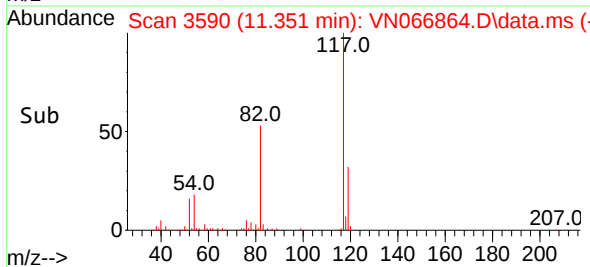
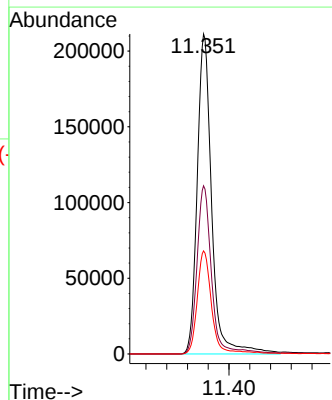
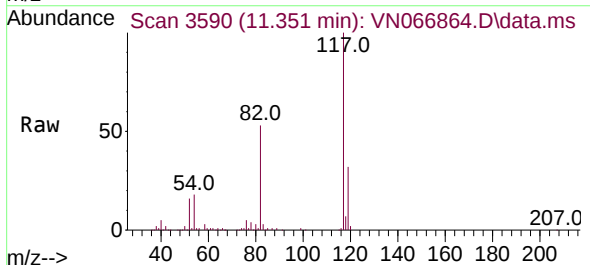
Instrument :  
MSVOA\_N  
ClientSampleId :

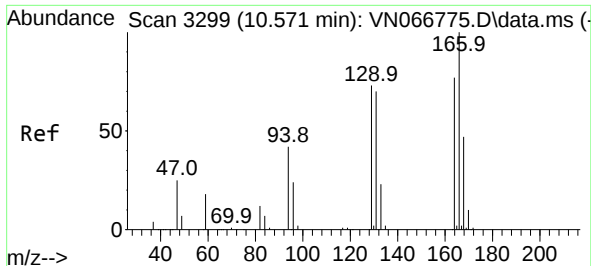
Tgt Ion: 95 Resp: 167717  
Ion Ratio Lower Upper  
95 100  
174 88.7 0.0 169.0  
176 84.6 0.0 162.4



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.351 min Scan# 3590  
Delta R.T. 0.003 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

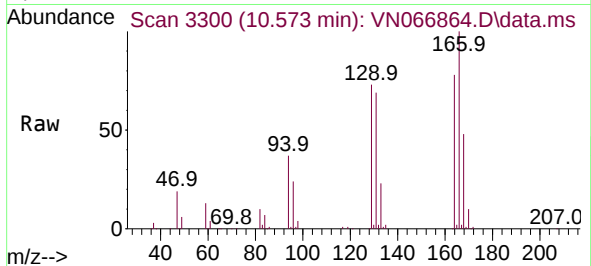
Tgt Ion: 117 Resp: 409035  
Ion Ratio Lower Upper  
117 100  
82 52.6 43.7 65.5  
119 32.2 26.1 39.1



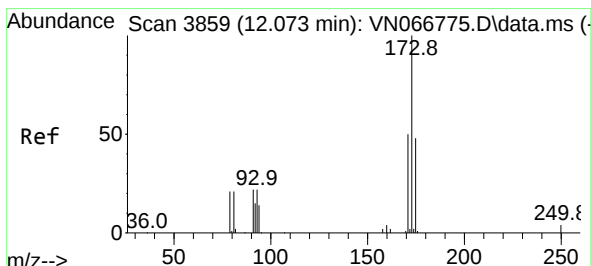
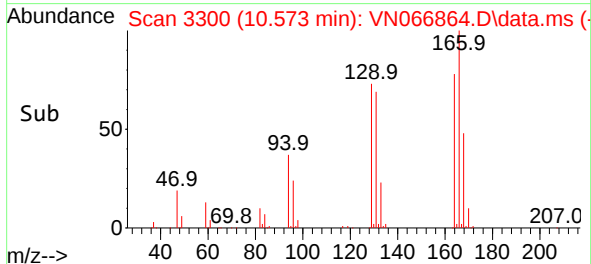
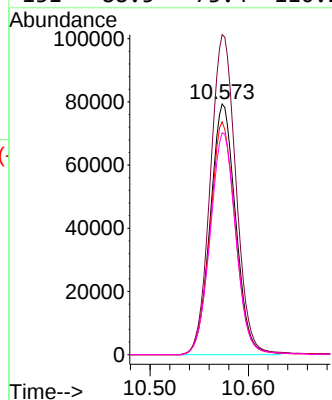


#64  
Tetrachloroethene  
Concen: 52.53 ug/l  
RT: 10.573 min Scan# 3300  
Delta R.T. 0.002 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

Instrument :  
MSVOA\_N  
ClientSampled :

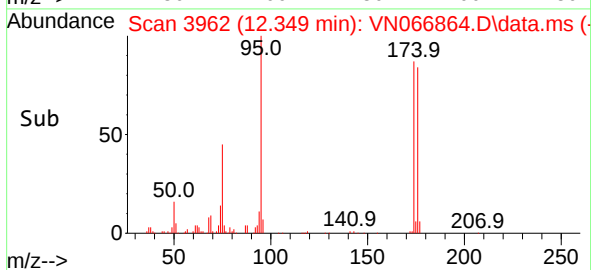
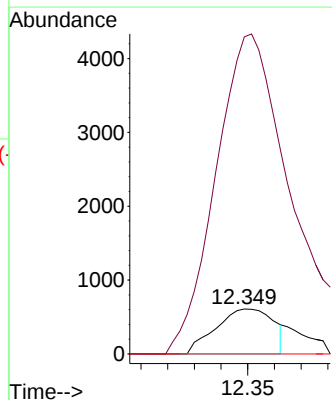
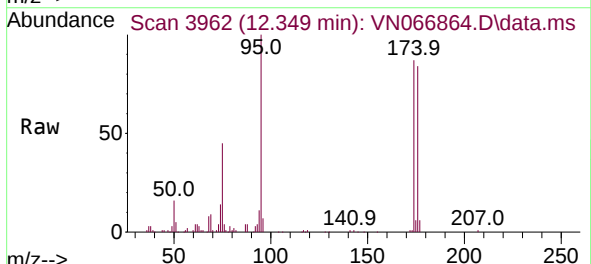


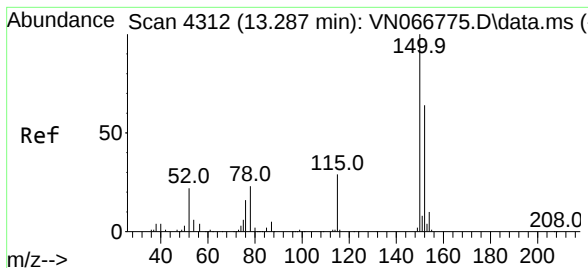
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 142085 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 166       | 127.6 | 102.6 | 154.0  |
| 129       | 92.8  | 76.2  | 114.4  |
| 131       | 88.5  | 73.4  | 110.2  |



#71  
Bromoform  
Concen: 0.41 ug/l  
RT: 12.349 min Scan# 3962  
Delta R.T. 0.276 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 918   |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 710.0 | 23.8  | 71.2# |
| 254       | 0.0   | 0.0   | 0.0   |

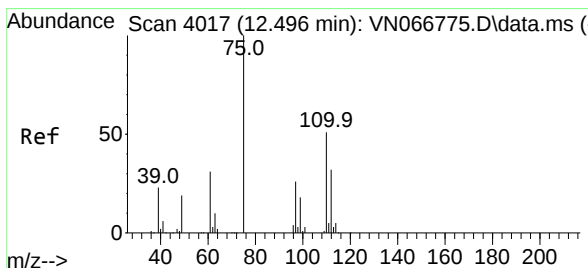
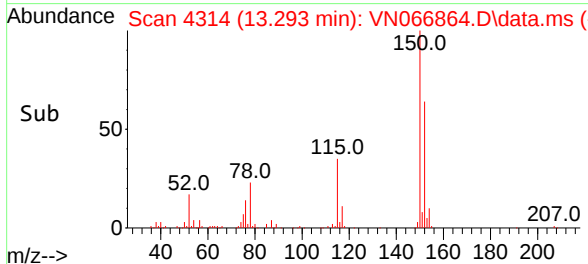
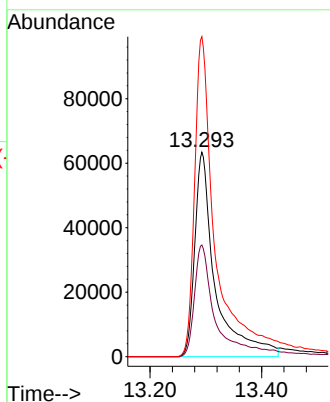
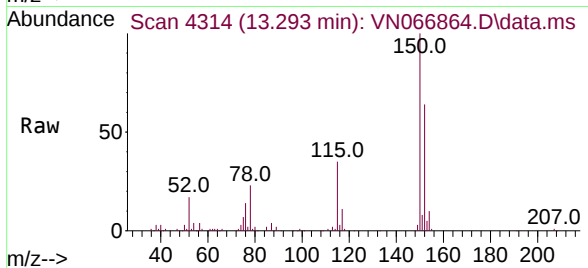




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 13.293 min Scan# 4314  
 Delta R.T. 0.005 min  
 Lab File: VN066864.D  
 Acq: 29 Apr 2021 16:03

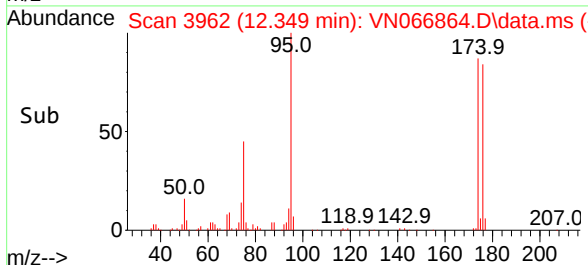
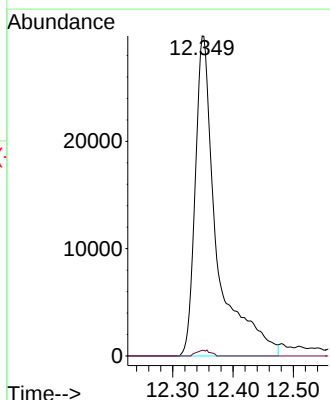
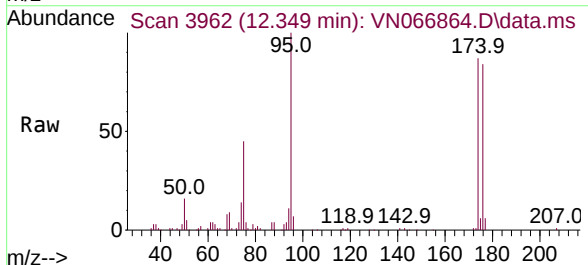
Instrument :  
 MSVOA\_N  
 ClientSampled :

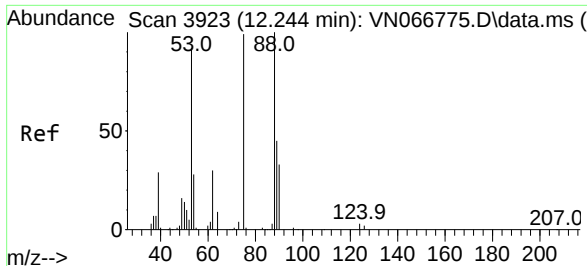
Tgt Ion:152 Resp: 162868  
 Ion Ratio Lower Upper  
 152 100  
 115 52.1 28.5 85.6  
 150 161.8 0.0 347.6



#76  
 1,2,3-Trichloropropane  
 Concen: 21.69 ug/l  
 RT: 12.349 min Scan# 3962  
 Delta R.T. -0.147 min  
 Lab File: VN066864.D  
 Acq: 29 Apr 2021 16:03

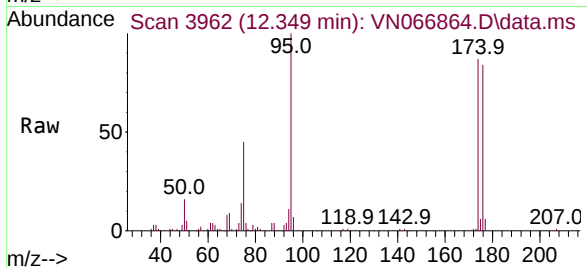
Tgt Ion: 75 Resp: 74464  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



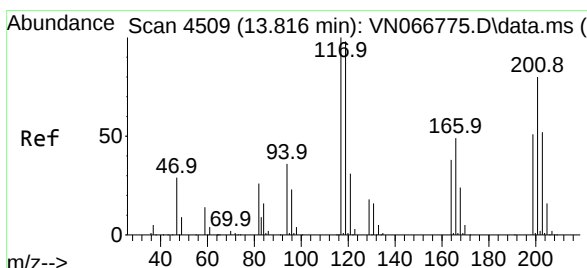
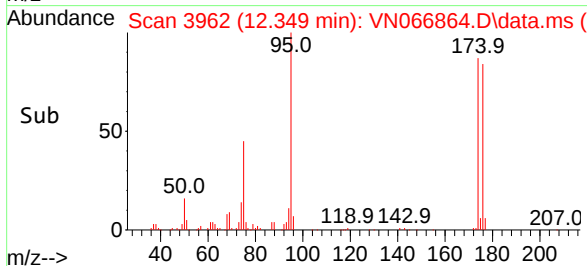
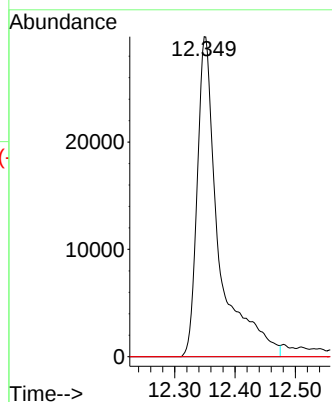


#81  
trans-1,4-Dichloro-2-butene  
Concen: 59.10 ug/l  
RT: 12.349 min Scan# 3962  
Delta R.T. 0.105 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 75 Resp: 74464  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.6 111.8#  
89 0.0 35.8 53.8#



#90  
Hexachloroethane  
Concen: 1.93 ug/l  
RT: 13.816 min Scan# 4509  
Delta R.T. -0.000 min  
Lab File: VN066864.D  
Acq: 29 Apr 2021 16:03

Tgt Ion: 117 Resp: 3879  
Ion Ratio Lower Upper  
117 100  
201 85.4 37.8 113.3

