

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN092220\  
 Data File : VN063577.D  
 Acq On : 23 Sep 2020 10:04  
 Operator : JC/MD  
 Sample : L4107-01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 40AA-MH

Quant Time: Sep 23 10:27:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 206121   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 392602   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 385556   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 161748   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 7.99   | 65  | 177544   | 50.60 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.20% |      |
| 35) Dibromofluoromethane    | 7.55   | 113 | 127554   | 46.93 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.86%  |      |
| 50) Toluene-d8              | 10.06  | 98  | 494109   | 48.35 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.70%  |      |
| 62) 4-Bromofluorobenzene    | 12.38  | 95  | 190502   | 50.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.70% |      |

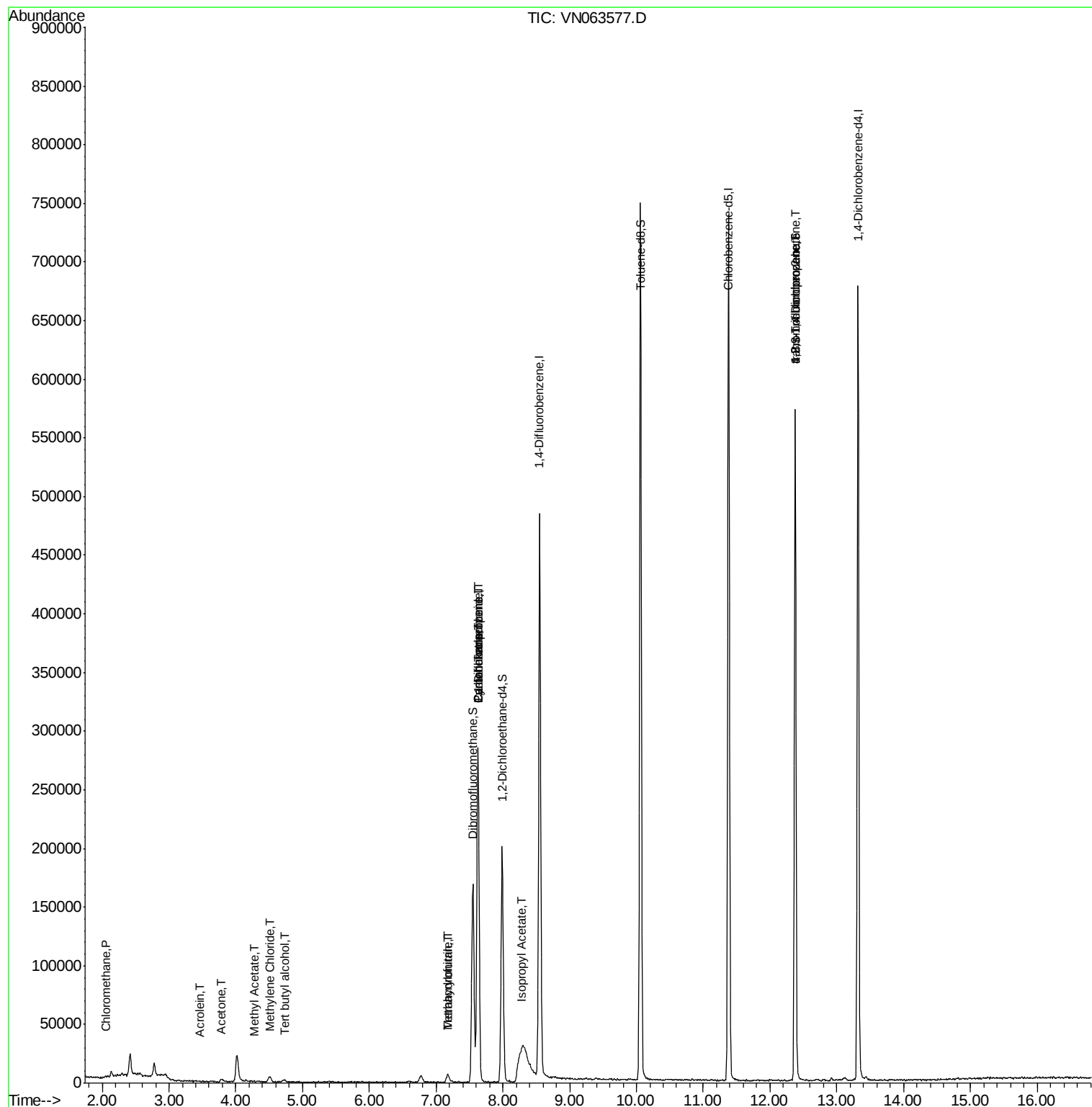
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 2.04  | 50   | 963      | 0.312  | ug/l   | 93     |
| 11) Tert butyl alcohol         | 4.72  | 59   | 1872     | 3.851  | ug/l # | 83     |
| 13) Acrolein                   | 3.46  | 56   | 71       | 0.394  | ug/l # | 13     |
| 16) Acetone                    | 3.78  | 43   | 5350     | 4.744  | ug/l   | 93     |
| 18) Methyl Acetate             | 4.28  | 43   | 803      | 0.281  | ug/l # | 54     |
| 20) Methylene Chloride         | 4.51  | 84   | 3740     | 1.309  | ug/l # | 82     |
| 29) Tetrahydrofuran            | 7.17  | 42   | 5554     | 4.689  | ug/l   | 95     |
| 31) Cyclohexane                | 7.62  | 56   | 6697     | 1.382  | ug/l # | 43     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 19002    | 4.543  | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.62  | 117  | 22160    | 5.190  | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.17  | 41   | 4144     | 2.244  | ug/l # | 100    |
| 43) Isopropyl Acetate          | 8.28  | 43   | 39167    | 5.336  | ug/l # | 64     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 106404   | 26.578 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 106404   | 72.866 | ug/l # | 7      |

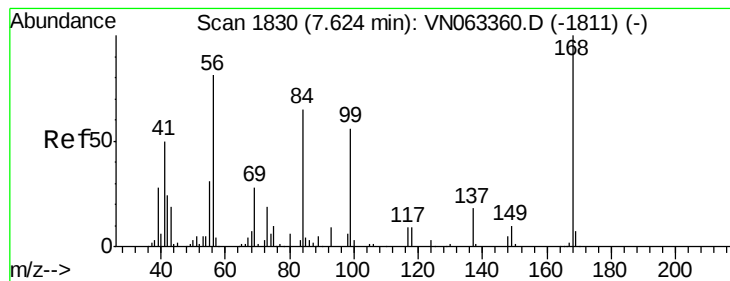
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN092220\  
Data File : VN063577.D  
Acq On : 23 Sep 2020 10:04  
Operator : JC/MD  
Sample : L4107-01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 56 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
40AA-MH

Quant Time: Sep 23 10:27:52 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 16 13:05:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063577.D

Acq: 23 Sep 2020 10:04

Instrument :

MSVOA\_N

ClientSampleId :

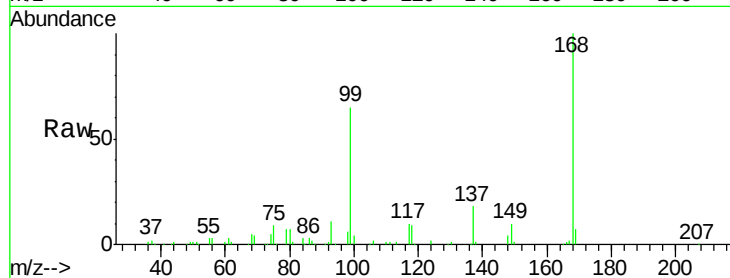
40AA-MH

Tgt Ion: 168 Resp: 206121

Ion Ratio Lower Upper

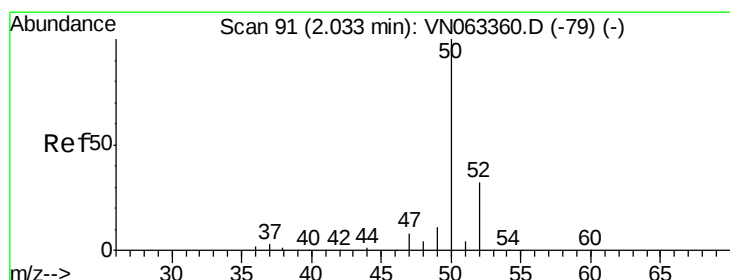
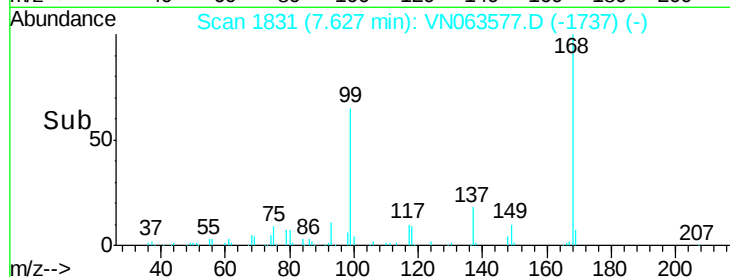
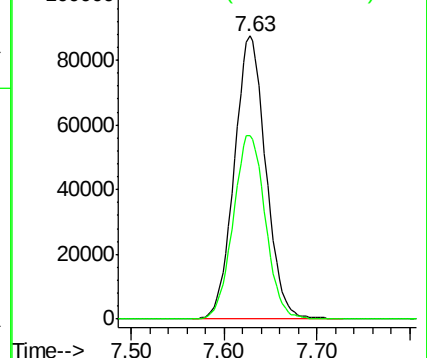
168 100

99 65.1 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.312 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.01 min

Lab File: VN063577.D

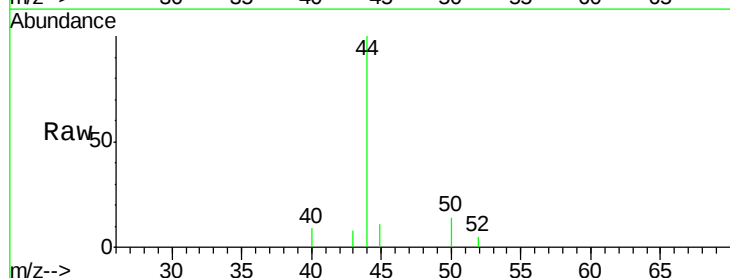
Acq: 23 Sep 2020 10:04

Tgt Ion: 50 Resp: 963

Ion Ratio Lower Upper

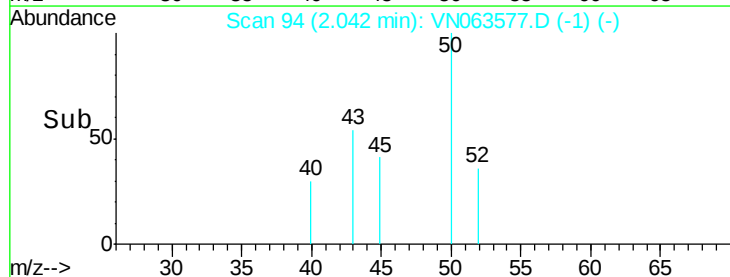
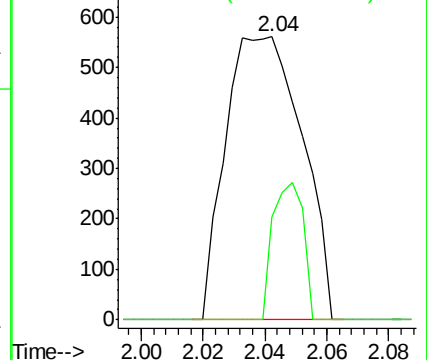
50 100

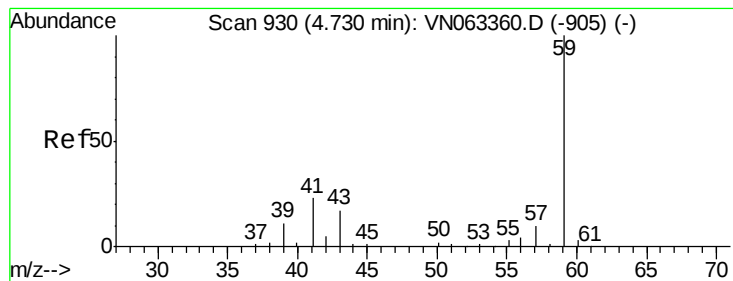
52 36.2 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



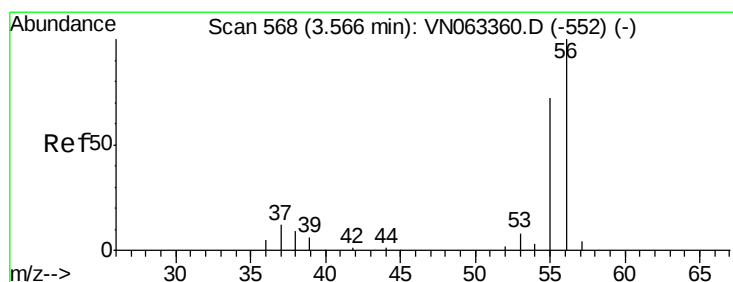
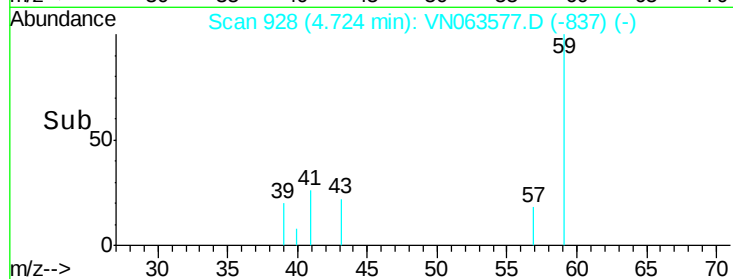
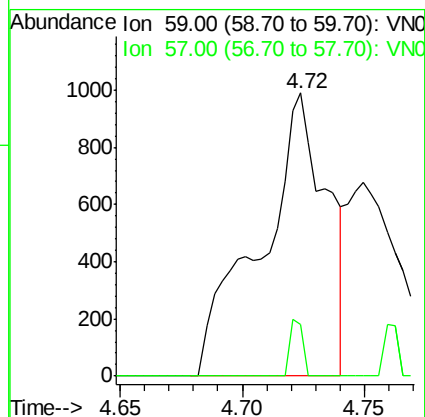
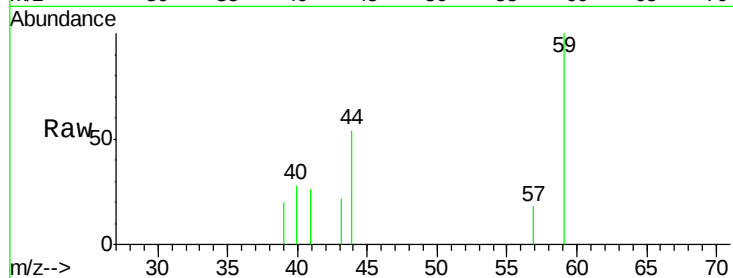


#11

Tert butyl alcohol  
 Concen: 3.851 ug/l  
 RT: 4.72 min Scan# 928  
 Delta R.T. -0.01 min  
 Lab File: VN063577.D  
 Acq: 23 Sep 2020 10:04

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 40AA-MH

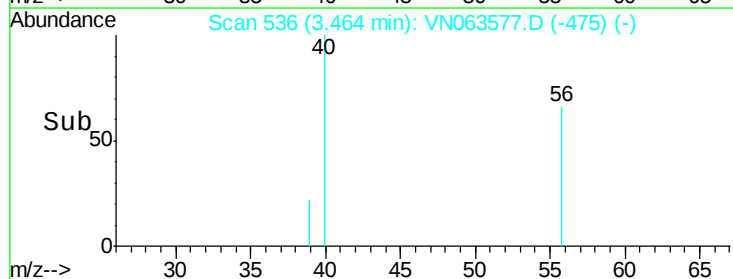
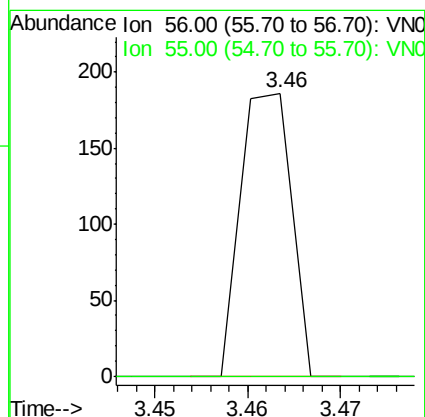
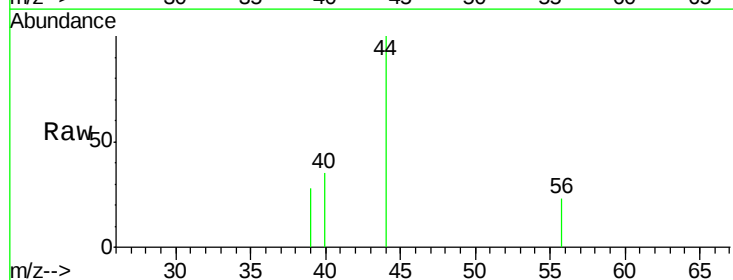
Tgt Ion: 59 Resp: 1872  
 Ion Ratio Lower Upper  
 59 100  
 57 4.0 8.4 12.6#

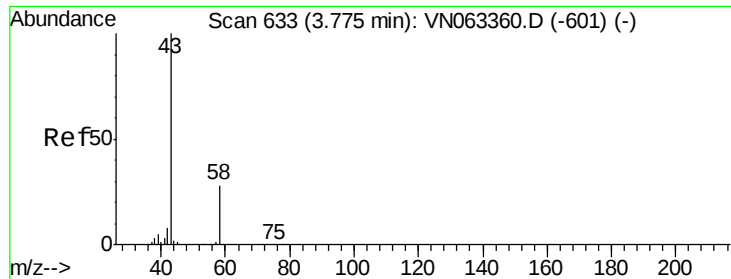


#13

Acrolein  
 Concen: 0.394 ug/l  
 RT: 3.46 min Scan# 536  
 Delta R.T. -0.10 min  
 Lab File: VN063577.D  
 Acq: 23 Sep 2020 10:04

Tgt Ion: 56 Resp: 71  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 58.2 87.2#





#16

Acetone

Concen: 4.744 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063577.D

Acq: 23 Sep 2020 10:04

Instrument :

MSVOA\_N

ClientSampleId :

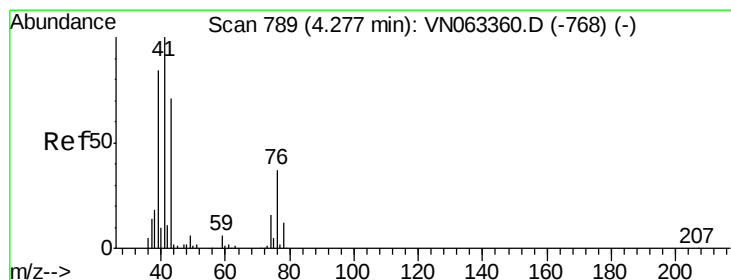
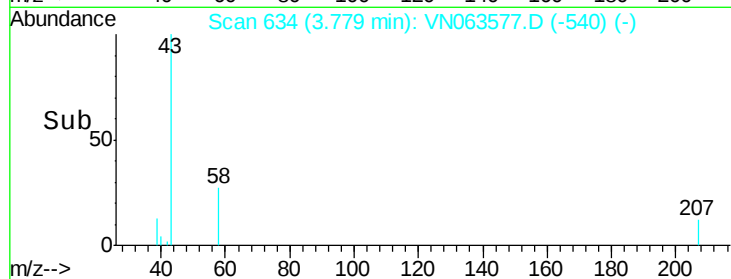
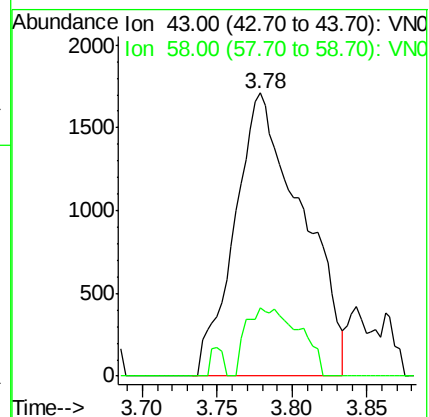
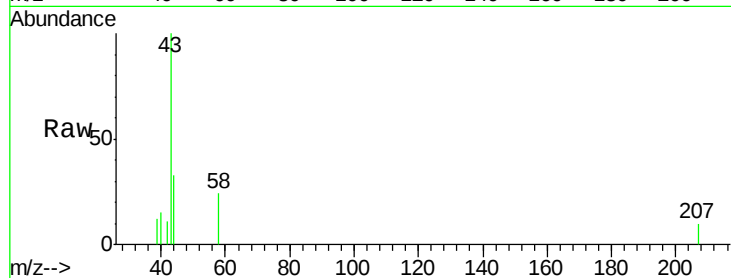
40AA-MH

Tgt Ion: 43 Resp: 5350

Ion Ratio Lower Upper

43 100

58 24.2 22.3 33.5



#18

Methyl Acetate

Concen: 0.281 ug/l

RT: 4.28 min Scan# 789

Delta R.T. -0.00 min

Lab File: VN063577.D

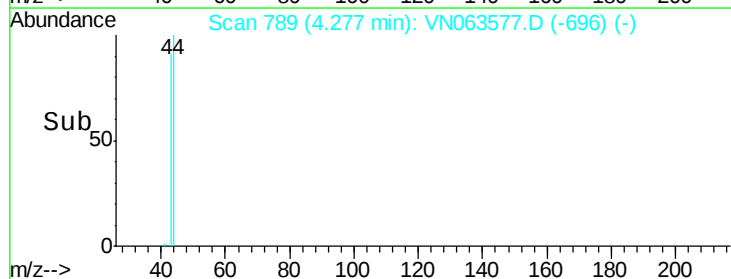
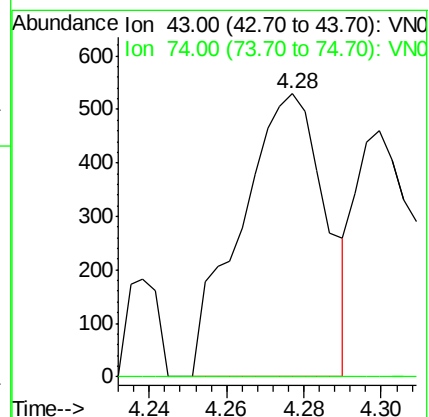
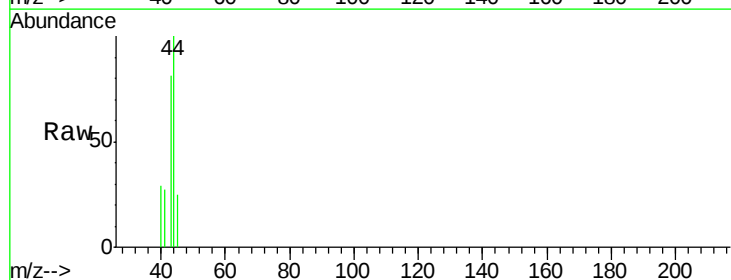
Acq: 23 Sep 2020 10:04

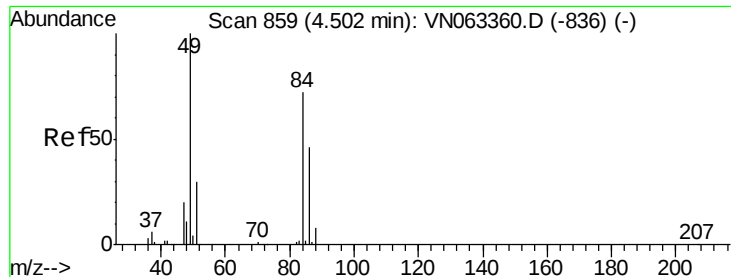
Tgt Ion: 43 Resp: 803

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.2#





#20

Methylene Chloride

Concen: 1.309 ug/l

RT: 4.51 min Scan# 860

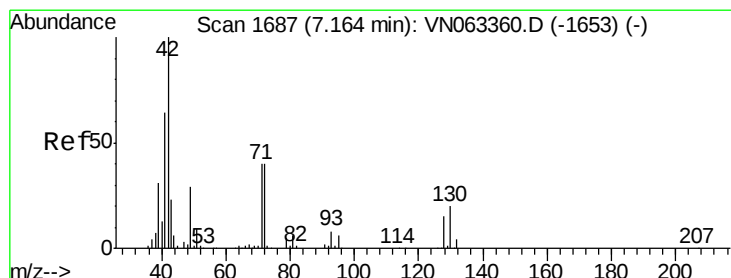
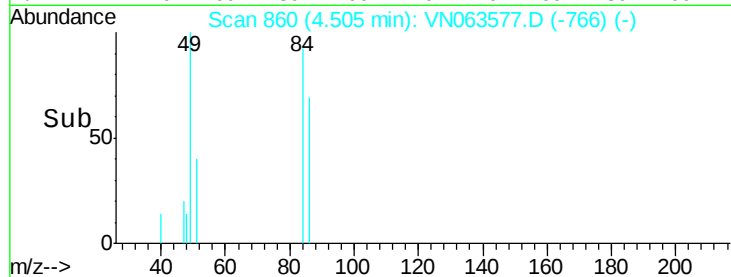
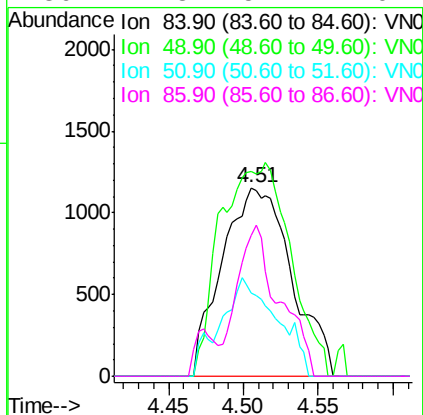
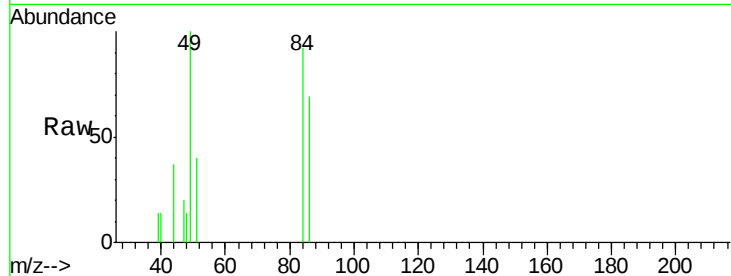
Delta R.T. 0.00 min

Lab File: VN063577.D

Acq: 23 Sep 2020 10:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
40AA-MH

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 3740   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 108.8 | 110.7 | 166.1# |
| 51       | 44.1  | 32.9  | 49.3   |
| 86       | 74.8  | 51.1  | 76.7   |



#29

Tetrahydrofuran

Concen: 4.689 ug/l

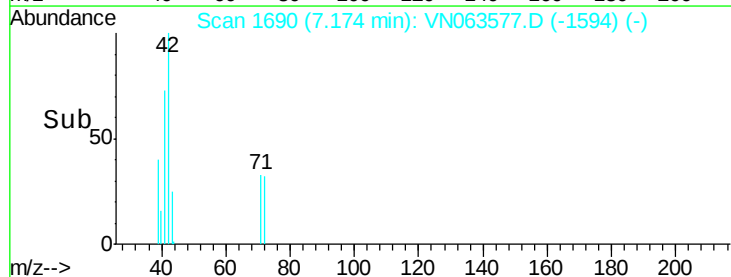
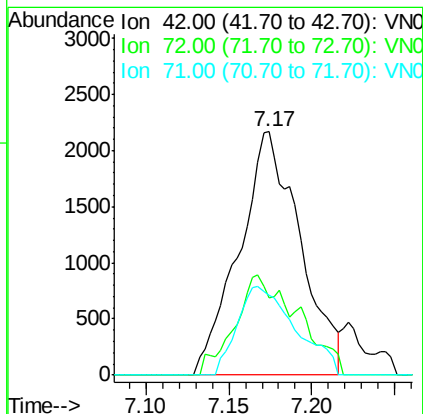
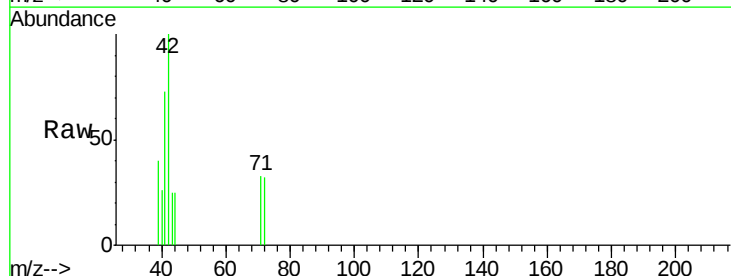
RT: 7.17 min Scan# 1690

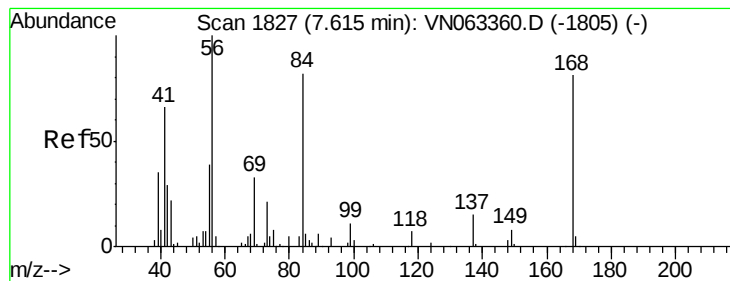
Delta R.T. 0.01 min

Lab File: VN063577.D

Acq: 23 Sep 2020 10:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 5554  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 42.5  | 32.1  | 48.1  |
| 71       | 34.8  | 31.2  | 46.8  |





#31

Cyclohexane

Concen: 1.382 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063577.D

Acq: 23 Sep 2020 10:04

Instrument :

MSVOA\_N

ClientSampleId :

40AA-MH

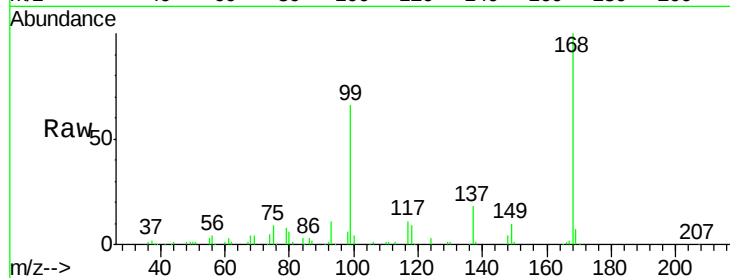
Tgt Ion: 56 Resp: 6697

Ion Ratio Lower Upper

56 100

69 121.2 26.1 39.1#

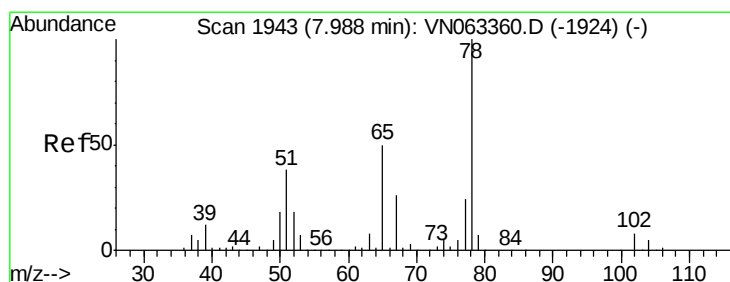
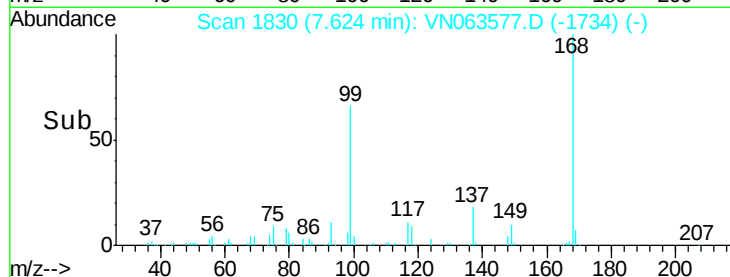
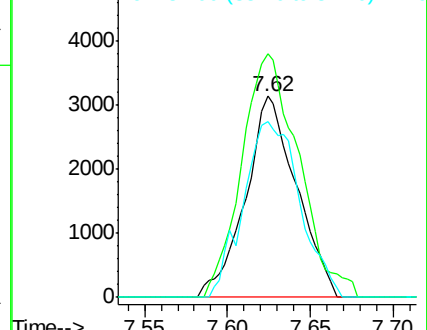
84 97.0 65.4 98.2



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 50.601 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063577.D

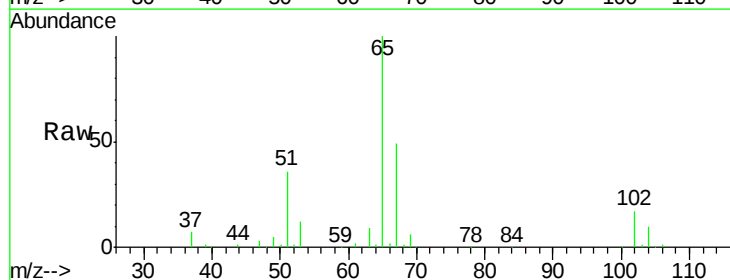
Acq: 23 Sep 2020 10:04

Tgt Ion: 65 Resp: 177544

Ion Ratio Lower Upper

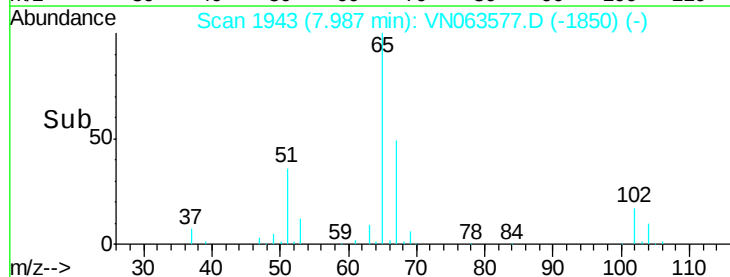
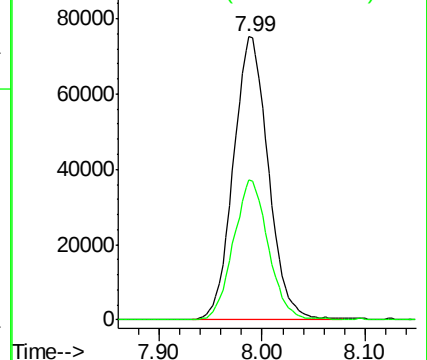
65 100

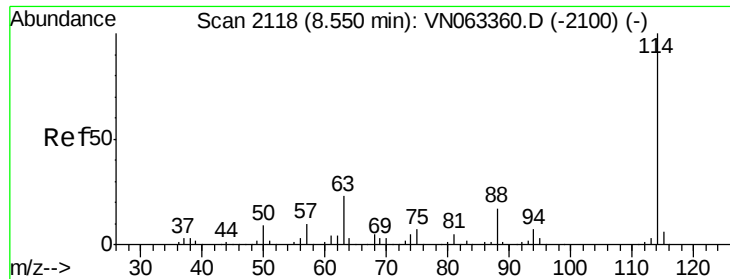
67 49.2 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

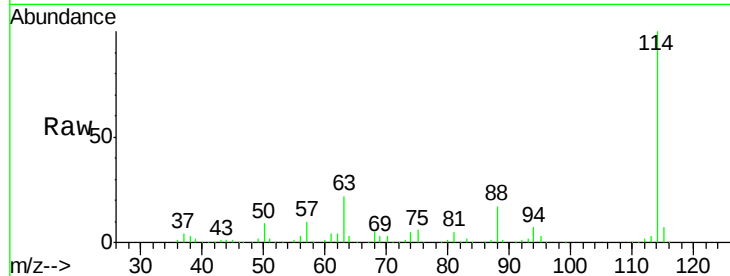




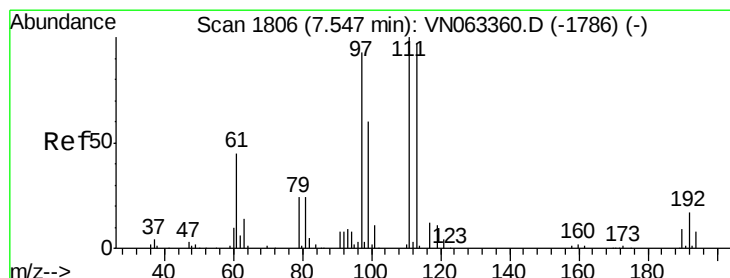
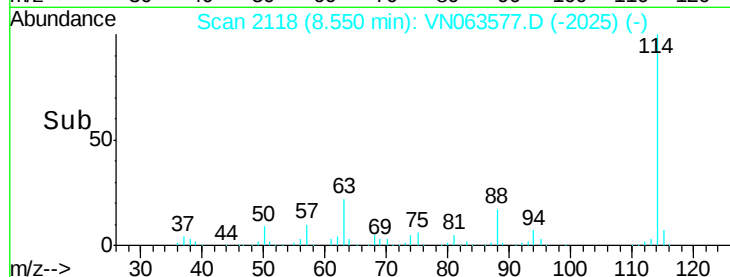
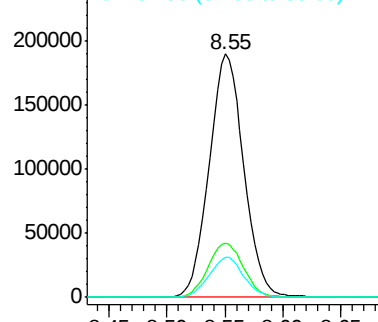
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.55 min Scan# 2118  
Delta R.T. -0.00 min  
Lab File: VN063577.D  
Acq: 23 Sep 2020 10:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
40AA-MH

Tgt Ion:114 Resp: 392602  
Ion Ratio Lower Upper  
114 100  
63 22.4 0.0 46.4  
88 16.5 0.0 33.2

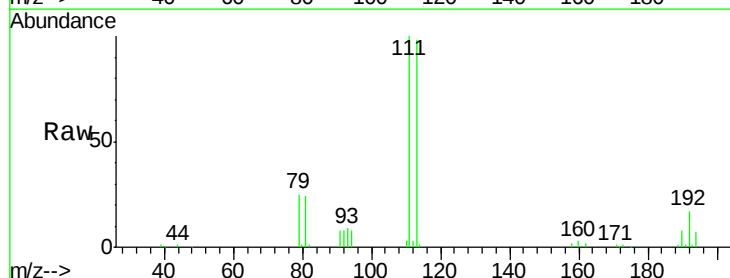


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

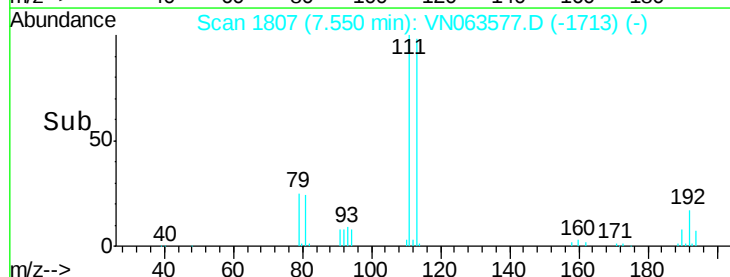
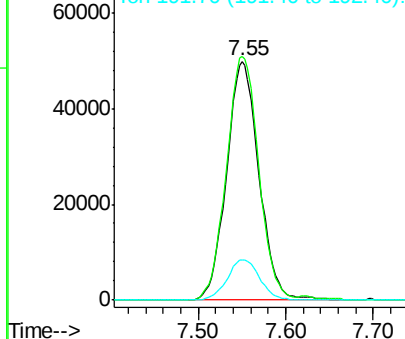


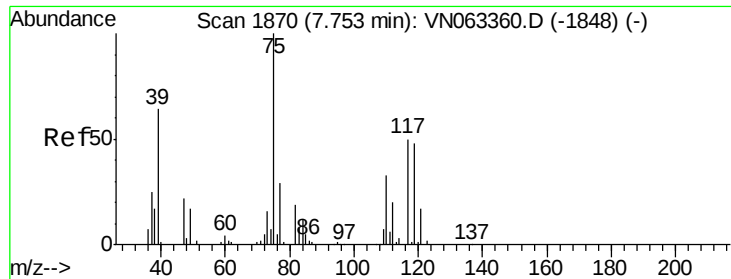
#35  
Dibromofluoromethane  
Concen: 46.931 ug/l  
RT: 7.55 min Scan# 1807  
Delta R.T. 0.00 min  
Lab File: VN063577.D  
Acq: 23 Sep 2020 10:04

Tgt Ion:113 Resp: 127554  
Ion Ratio Lower Upper  
113 100  
111 102.0 82.9 124.3  
192 17.0 13.9 20.9



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

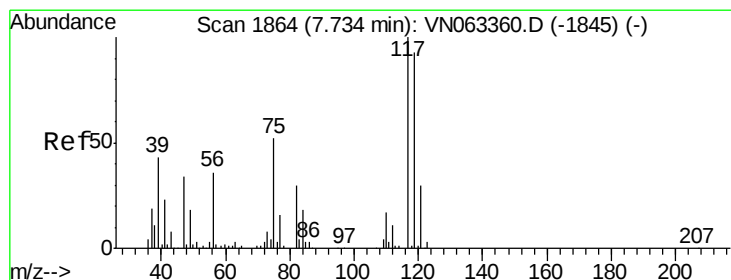
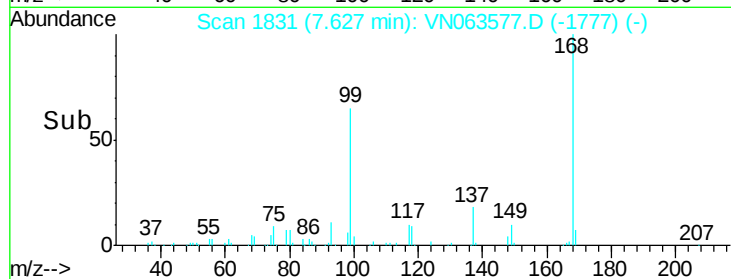
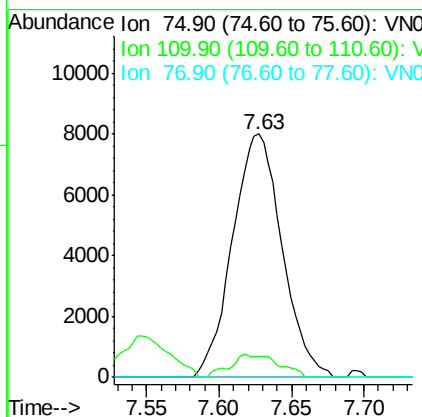
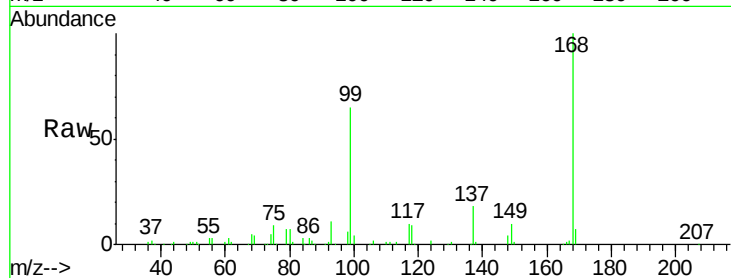




#36  
 1,1-Dichloropropene  
 Concen: 4.543 ug/l  
 RT: 7.63 min Scan# 1831  
 Delta R.T. -0.13 min  
 Lab File: VN063577.D  
 Acq: 23 Sep 2020 10:04

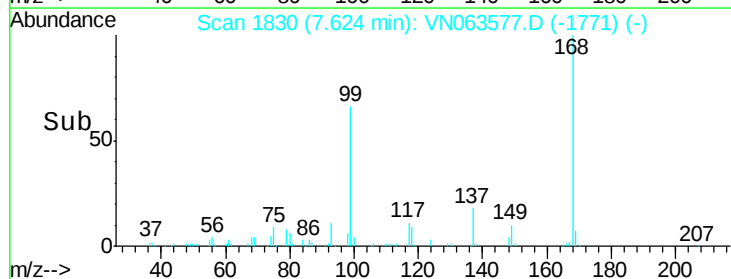
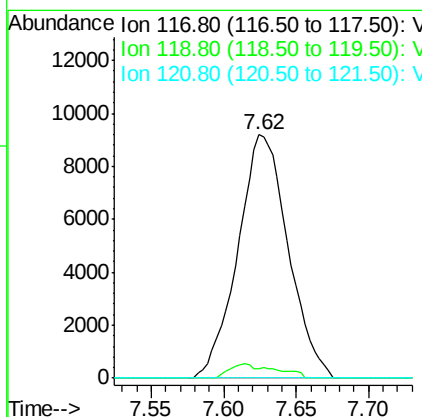
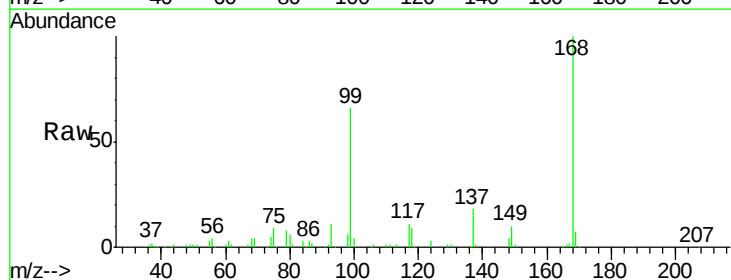
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 40AA-MH

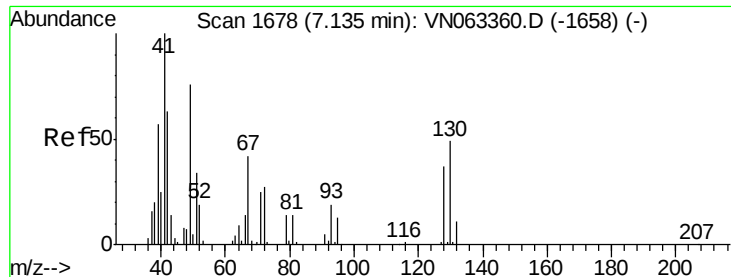
Tgt Ion: 75 Resp: 19002  
 Ion Ratio Lower Upper  
 75 100  
 110 4.8 16.5 49.5#  
 77 0.0 24.6 36.8#



#38  
 Carbon Tetrachloride  
 Concen: 5.190 ug/l  
 RT: 7.62 min Scan# 1830  
 Delta R.T. -0.11 min  
 Lab File: VN063577.D  
 Acq: 23 Sep 2020 10:04

Tgt Ion: 117 Resp: 22160  
 Ion Ratio Lower Upper  
 117 100  
 119 3.9 74.5 111.7#  
 121 0.0 24.1 36.1#

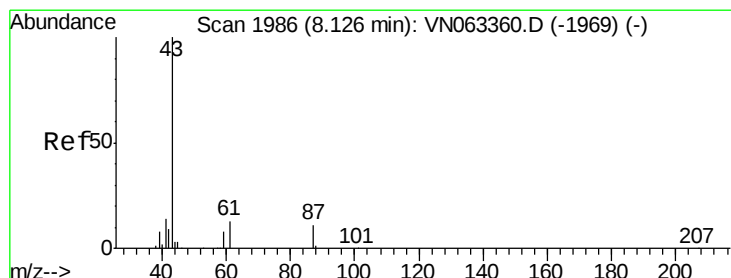
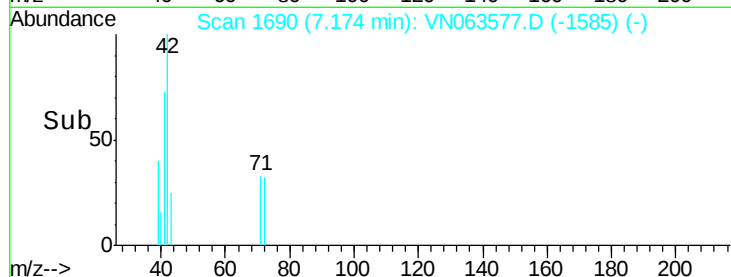
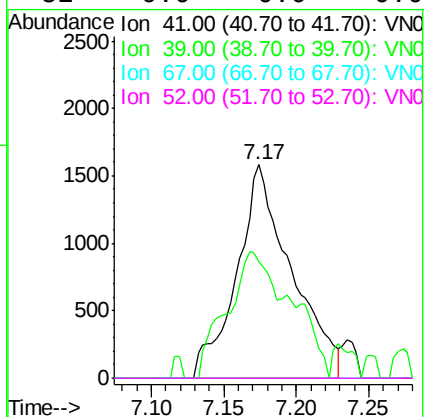
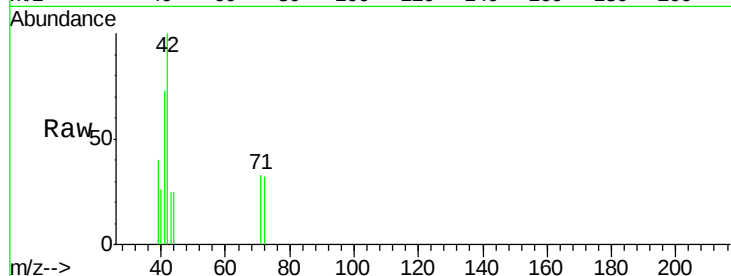




#41  
Methacrylonitrile  
Concen: 2.244 ug/l  
RT: 7.17 min Scan# 1690  
Delta R.T. 0.04 min  
Lab File: VN063577.D  
Acq: 23 Sep 2020 10:04

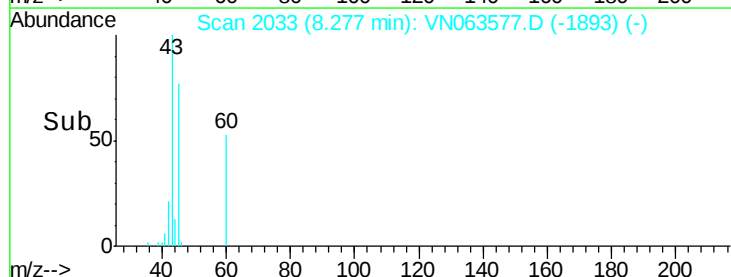
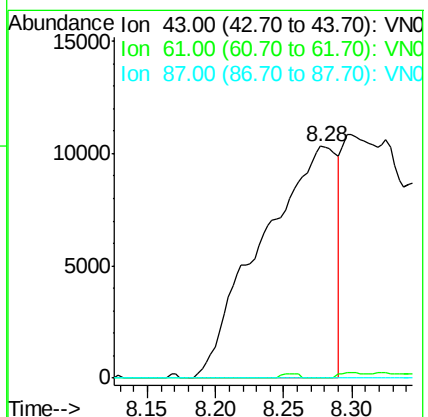
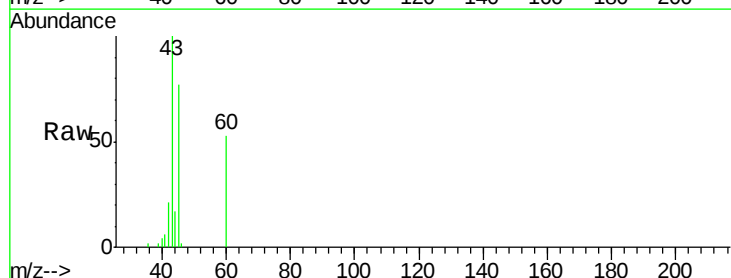
Instrument :  
MSVOA\_N  
ClientSampleId :  
40AA-MH

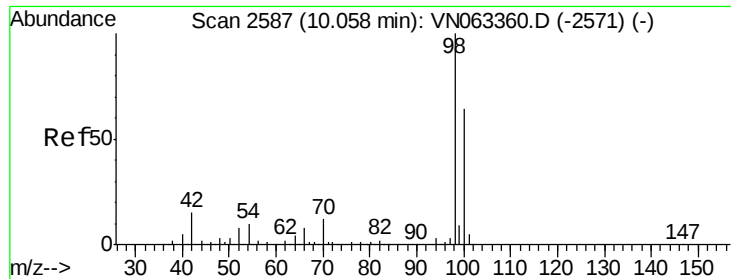
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 4144  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 69.9  | 0.0   | 0.0#  |
| 67       | 0.0   | 0.0   | 0.0   |
| 52       | 0.0   | 0.0   | 0.0   |



#43  
Isopropyl Acetate  
Concen: 5.336 ug/l  
RT: 8.28 min Scan# 2033  
Delta R.T. 0.15 min  
Lab File: VN063577.D  
Acq: 23 Sep 2020 10:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 39167 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 14.2  | 21.2# |
| 87       | 0.0   | 9.0   | 13.6# |





#50

Toluene-d8

Concen: 48.348 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063577.D

Acq: 23 Sep 2020 10:04

Instrument :

MSVOA\_N

ClientSampleId :

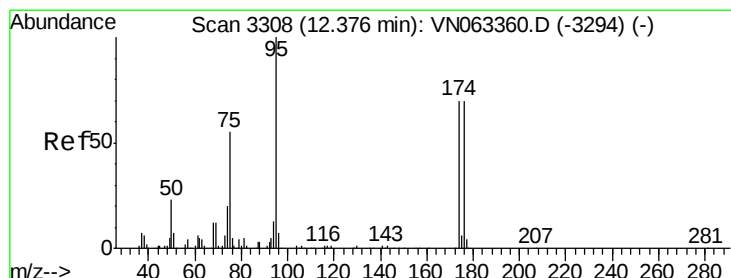
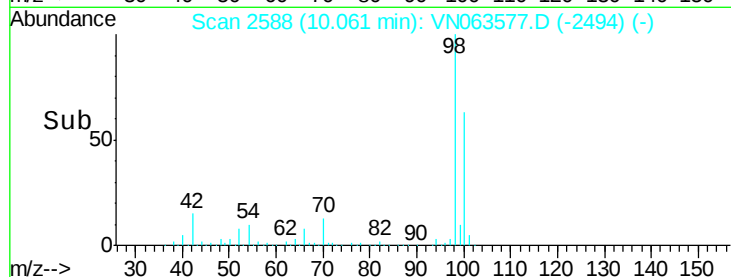
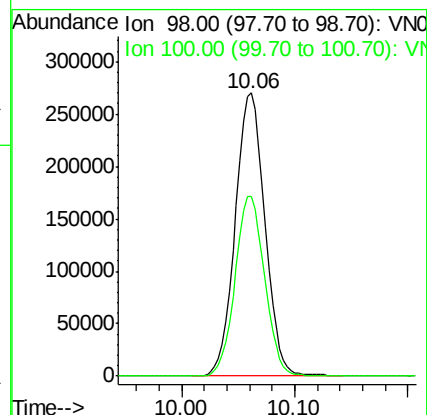
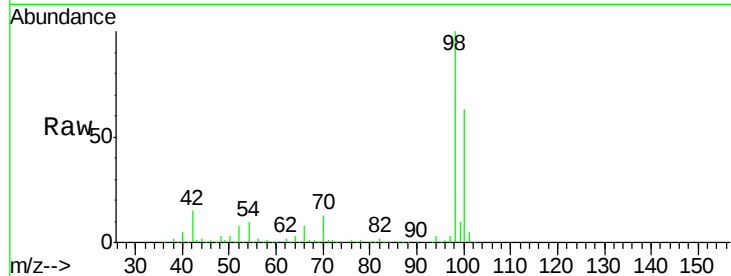
40AA-MH

Tgt Ion: 98 Resp: 494109

Ion Ratio Lower Upper

98 100

100 63.3 50.7 76.1



#62

4-Bromofluorobenzene

Concen: 50.849 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063577.D

Acq: 23 Sep 2020 10:04

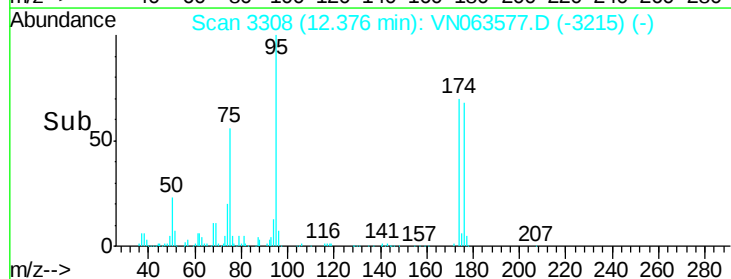
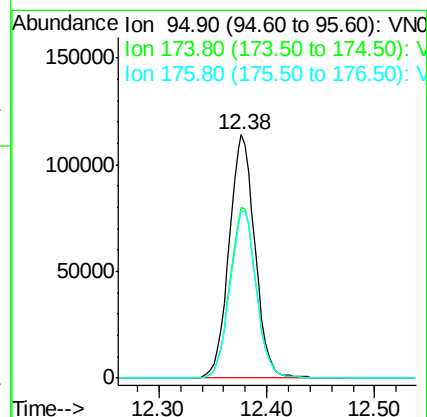
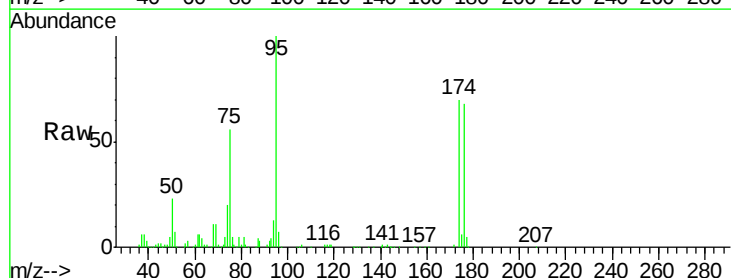
Tgt Ion: 95 Resp: 190502

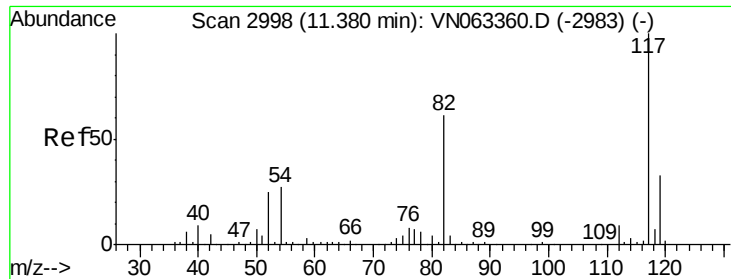
Ion Ratio Lower Upper

95 100

174 71.2 0.0 140.8

176 70.1 0.0 137.6

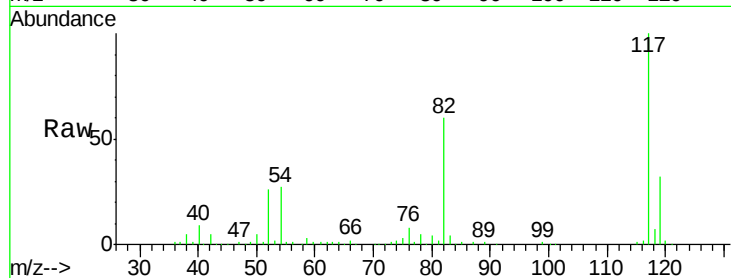




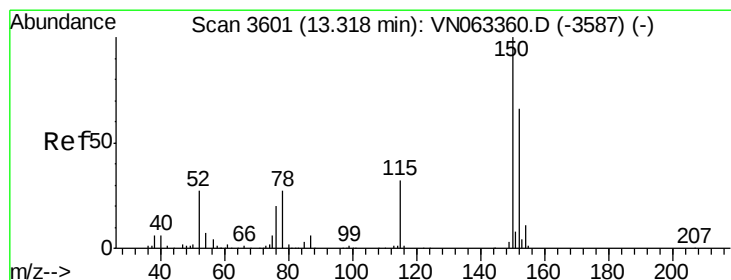
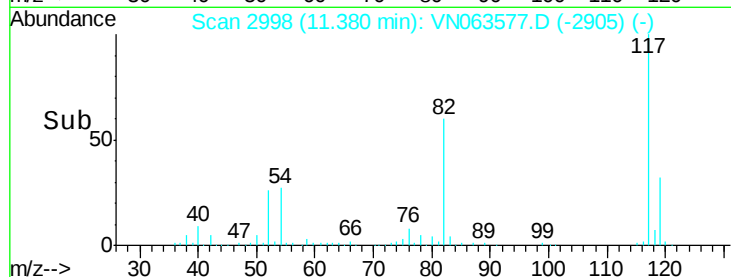
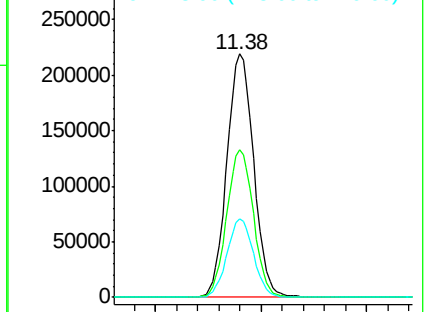
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. -0.00 min  
Lab File: VN063577.D  
Acq: 23 Sep 2020 10:04

Instrument :  
MSVOA\_N  
ClientSampled :  
40AA-MH

Tgt Ion:117 Resp: 385556  
Ion Ratio Lower Upper  
117 100  
82 60.4 49.2 73.8  
119 32.2 26.2 39.4

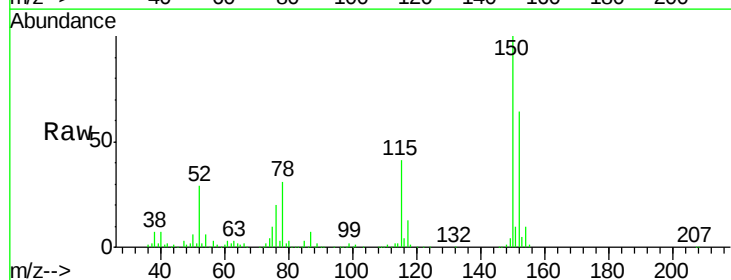


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

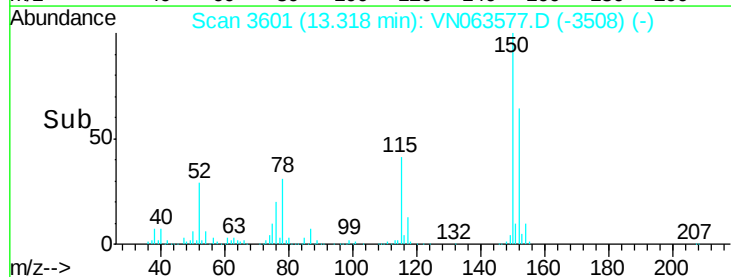
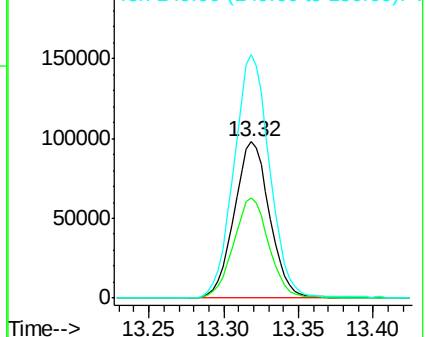


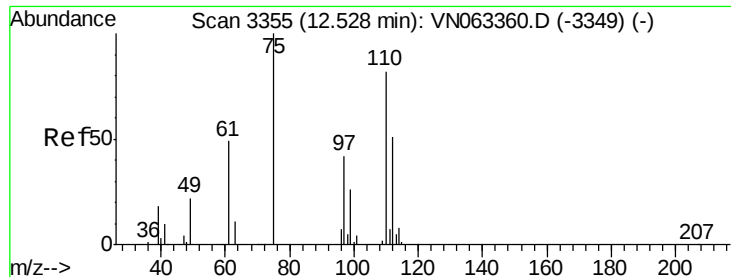
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3601  
Delta R.T. -0.00 min  
Lab File: VN063577.D  
Acq: 23 Sep 2020 10:04

Tgt Ion:152 Resp: 161748  
Ion Ratio Lower Upper  
152 100  
115 64.1 32.2 96.6  
150 156.5 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

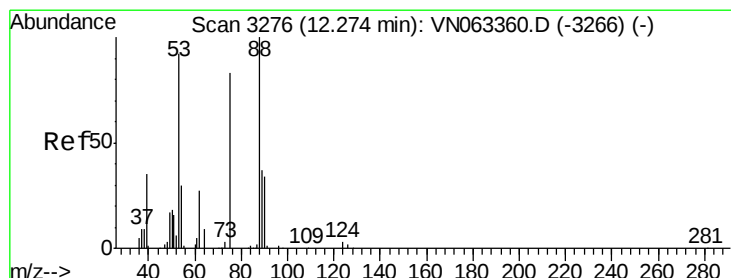
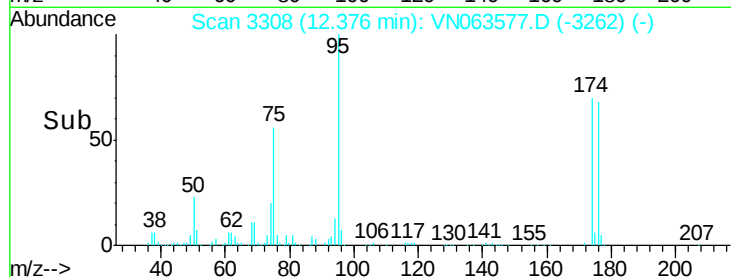
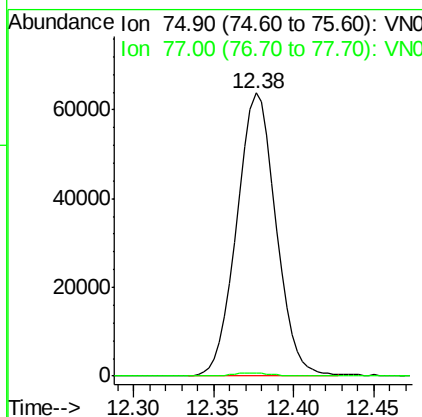
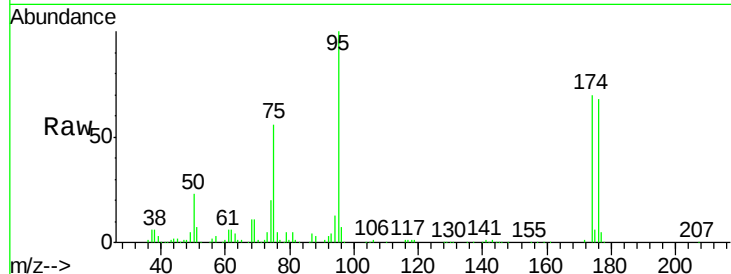




#76  
 1,2,3-Trichloropropane  
 Concen: 26.578 ug/l  
 RT: 12.38 min Scan# 3308  
 Delta R.T. -0.15 min  
 Lab File: VN063577.D  
 Acq: 23 Sep 2020 10:04

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 40AA-MH

Tgt Ion: 75 Resp: 106404  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 72.866 ug/l  
 RT: 12.38 min Scan# 3308  
 Delta R.T. 0.10 min  
 Lab File: VN063577.D  
 Acq: 23 Sep 2020 10:04

Tgt Ion: 75 Resp: 106404  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 85.7 128.5#  
 89 0.0 38.0 57.0#

