

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091719\  
 Data File : VW013097.D  
 Acq On : 17 Sep 2019 18:13  
 Operator : SY/VA  
 Sample : K4847-01  
 Misc : 5.01G/5ML/MSVOA W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 18 05:34:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 13 17:26:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 309052   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 469132   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 389142   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 166979   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 151233   | 52.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.96% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 134755   | 52.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.88% |          |
| 50) Toluene-d8              | 10.32 | 98   | 553093   | 55.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.06% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 175906   | 49.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.22%  |          |

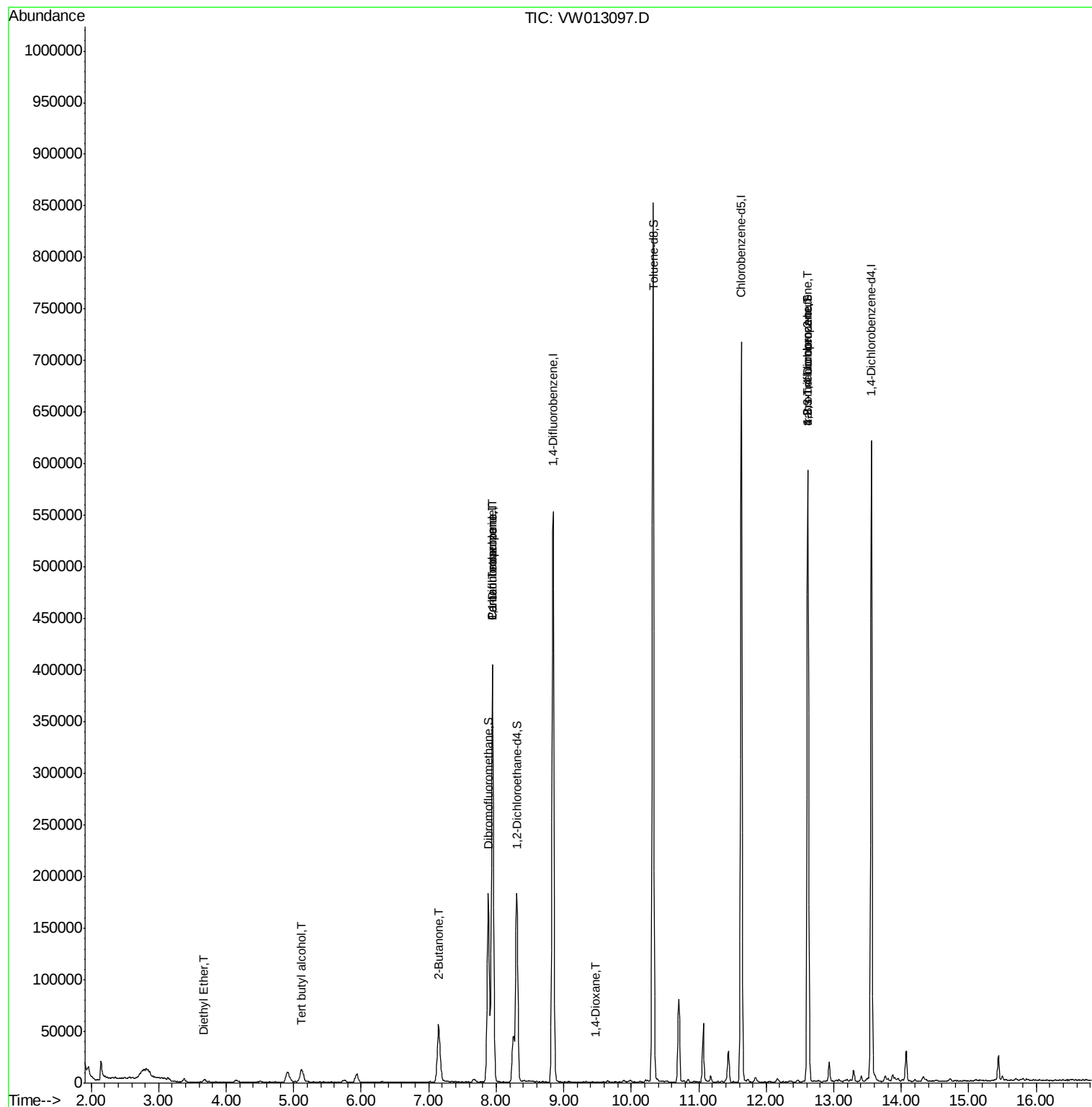
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.02  | 85   | 576      | Below Cal | #      | 44     |
| 3) Chloromethane               | 2.21  | 50   | 324      | Below Cal | #      | 49     |
| 8) Diethyl Ether               | 3.67  | 74   | 1494     | 1.237     | ug/l   | 77     |
| 11) Tert butyl alcohol         | 5.12  | 59   | 11516    | 41.942    | ug/l # | 74     |
| 13) Acrolein                   | 3.84  | 56   | 44       | Below Cal | #      | 15     |
| 16) Acetone                    | 4.14  | 43   | 4331     | Below Cal | #      | 84     |
| 20) Methylene Chloride         | 4.90  | 84   | 7567     | Below Cal | #      | 94     |
| 25) 2-Butanone                 | 7.15  | 43   | 3706     | 4.083     | ug/l # | 86     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 4056     | Below Cal | #      | 55     |
| 31) Cyclohexane                | 7.95  | 56   | 6461     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 7.94  | 75   | 22909    | 6.111     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 30254    | 7.875     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 9.48  | 88   | 53       | 2.374     | ug/l # | 36     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 90323    | 61.755    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 90323    | 140.090   | ug/l # | 7      |

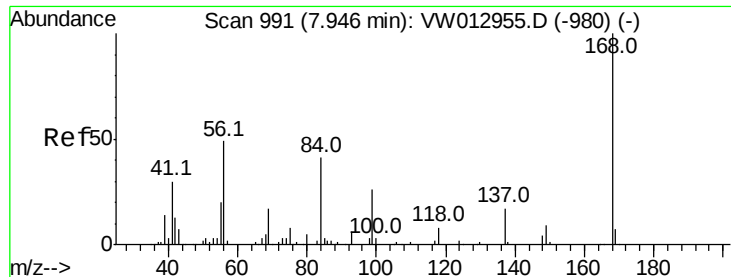
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Sep 13 17:26:01 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013097.D

Acq: 17 Sep 2019 18:13

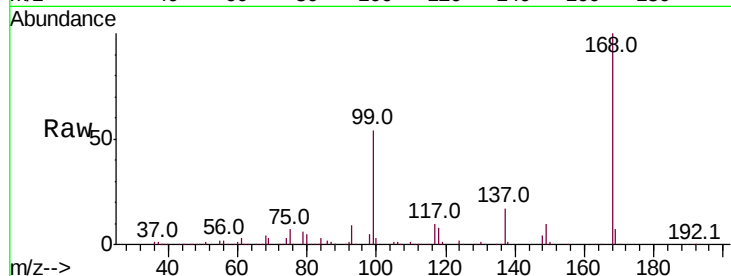
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 309052

Ion Ratio Lower Upper

168 100

99 53.8 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

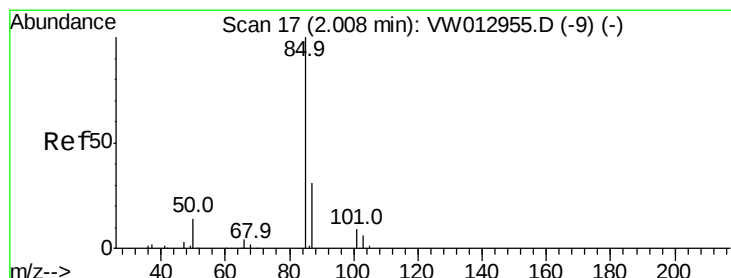
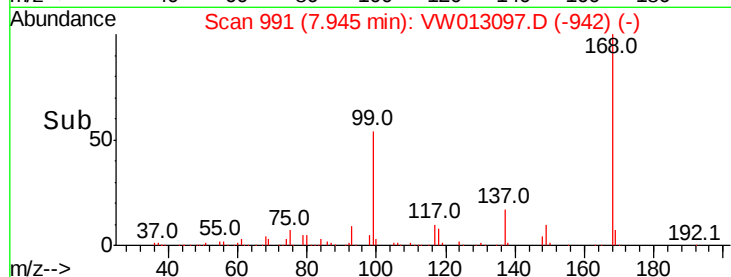
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW013097.D

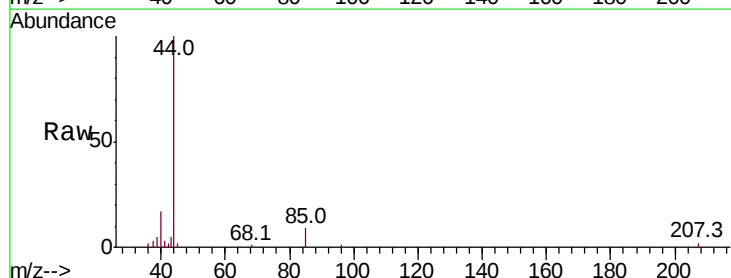
Acq: 17 Sep 2019 18:13

Tgt Ion: 85 Resp: 576

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.02

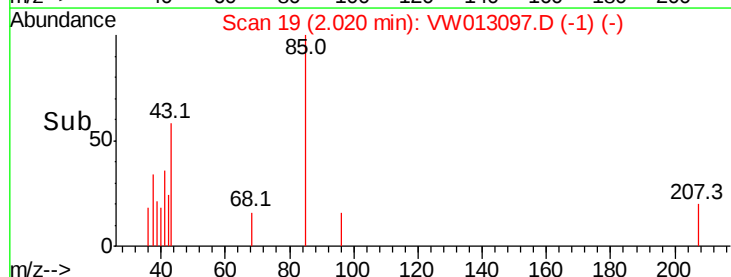
300

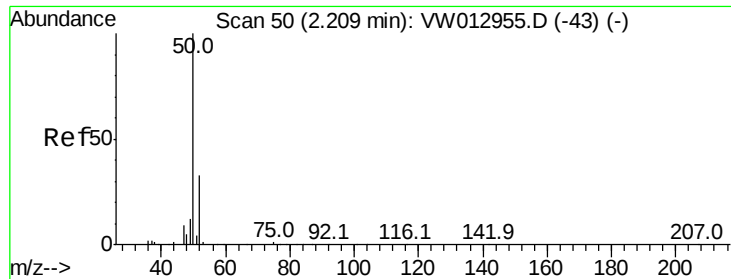
200

100

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW013097.D

Acq: 17 Sep 2019 18:13

Instrument :

MSVOA\_W

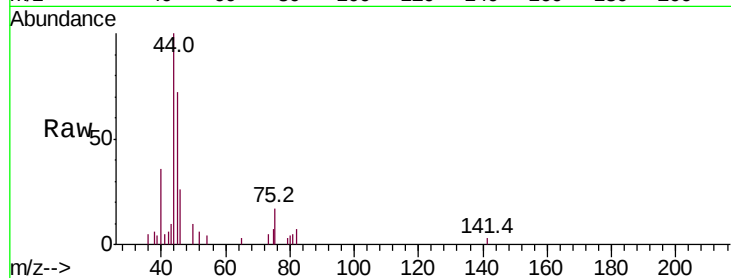
ClientSampled :

Tot Ion: 50 Resp: 324

Ion Ratio Lower Upper

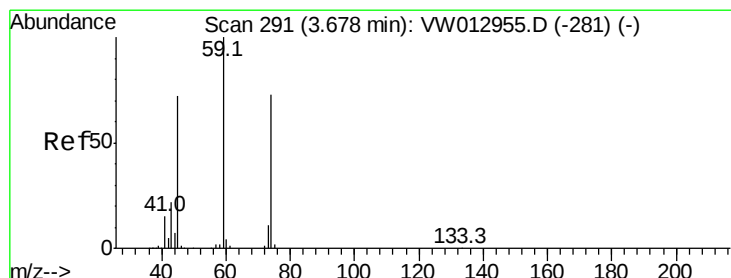
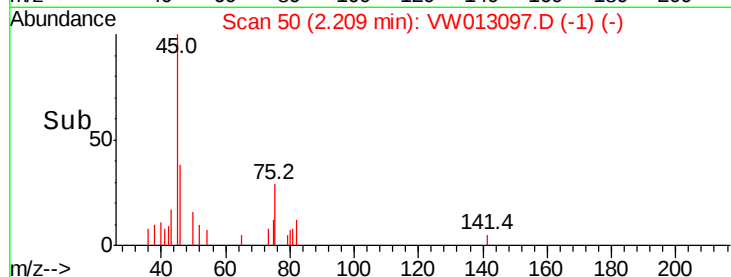
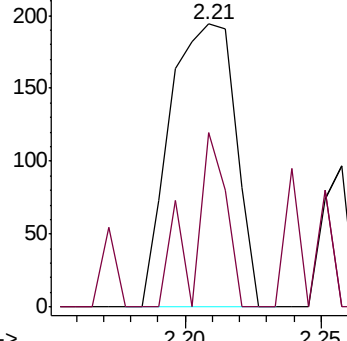
50 100

52 61.9 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#8

Diethyl Ether

Concen: 1.237 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW013097.D

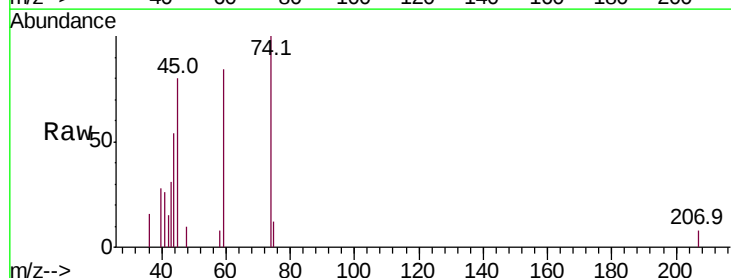
Acq: 17 Sep 2019 18:13

Tgt Ion: 74 Resp: 1494

Ion Ratio Lower Upper

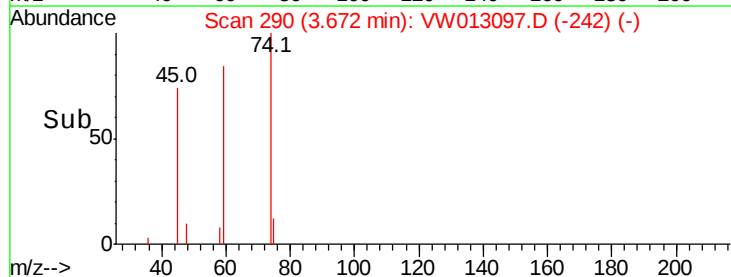
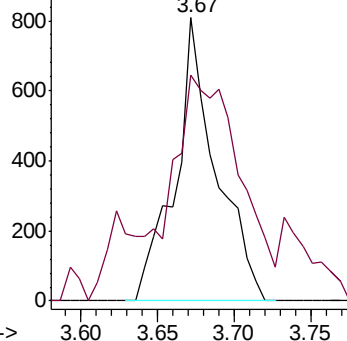
74 100

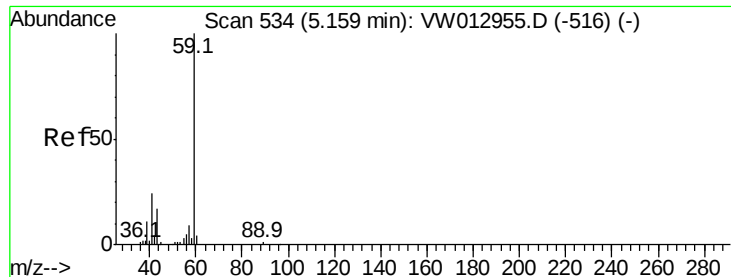
45 131.5 53.8 161.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



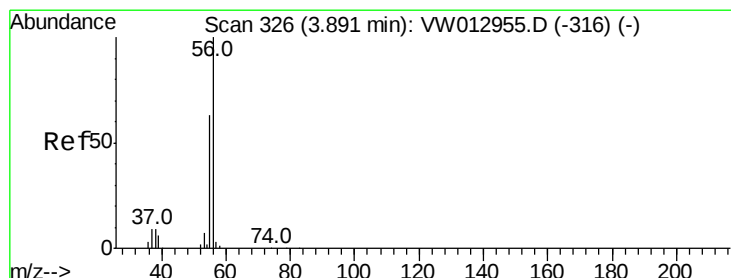
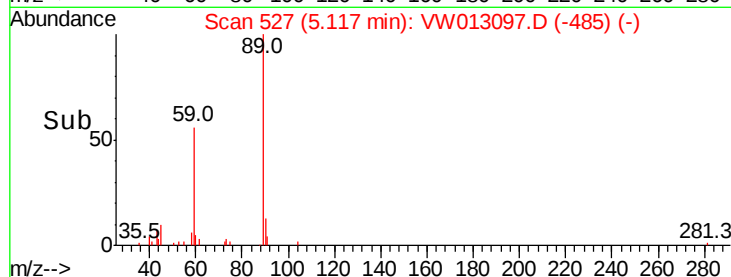
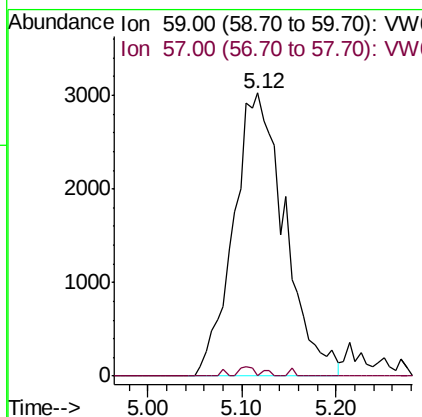
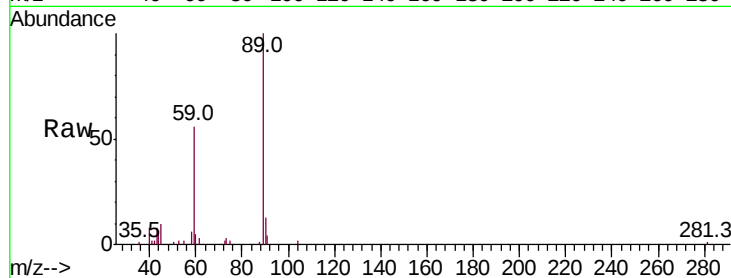


#11

Tert butyl alcohol  
 Concen: 41.942 ug/l  
 RT: 5.12 min Scan# 527  
 Delta R.T. -0.04 min  
 Lab File: VW013097.D  
 Acq: 17 Sep 2019 18:13

Instrument :  
 MSVOA\_W  
 ClientSampled :

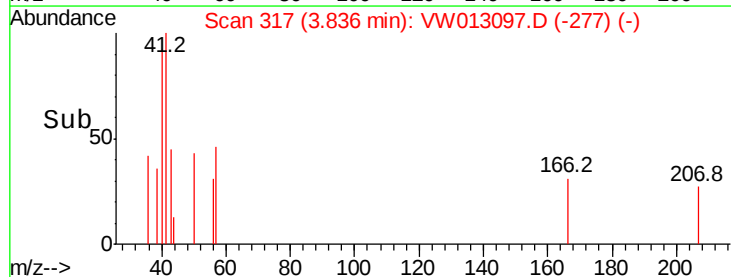
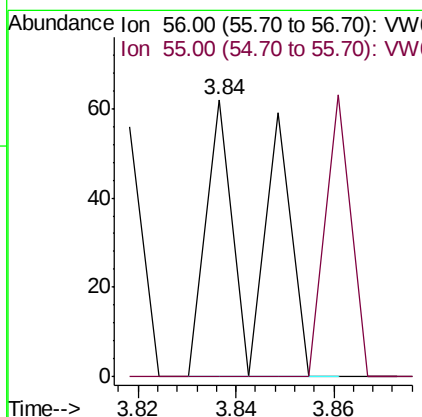
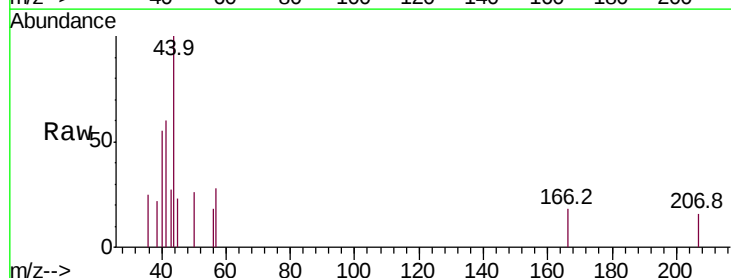
Tot Ion: 59 Resp: 11516  
 Ion Ratio Lower Upper  
 59 100  
 57 0.9 8.5 12.7#

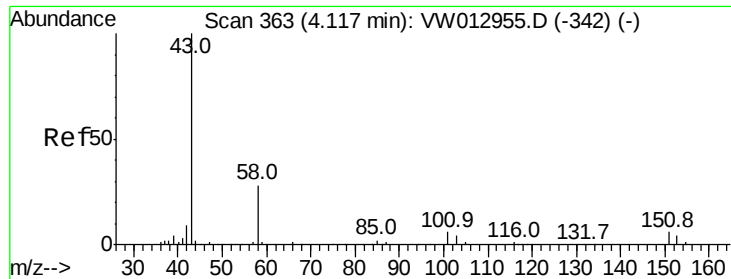


#13

Acrolein  
 Concen: Below Cal  
 RT: 3.84 min Scan# 317  
 Delta R.T. -0.05 min  
 Lab File: VW013097.D  
 Acq: 17 Sep 2019 18:13

Tgt Ion: 56 Resp: 44  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 55.8 83.8#





#16

Acetone

Concen: Below Cal

RT: 4.14 min Scan# 367

Delta R.T. 0.03 min

Lab File: VW013097.D

Acq: 17 Sep 2019 18:13

Instrument :

MSVOA\_W

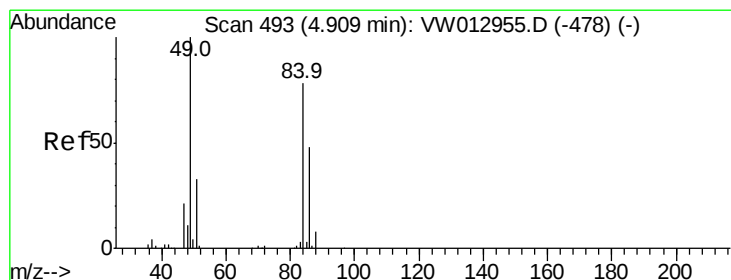
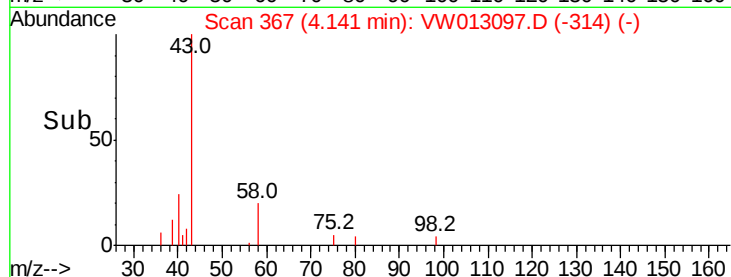
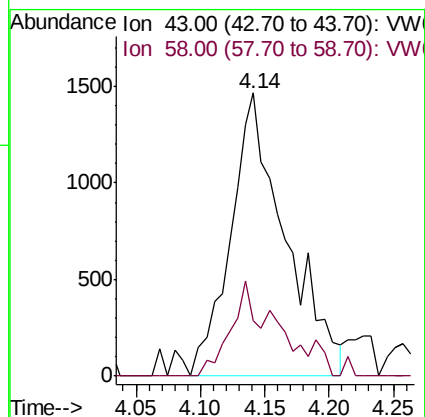
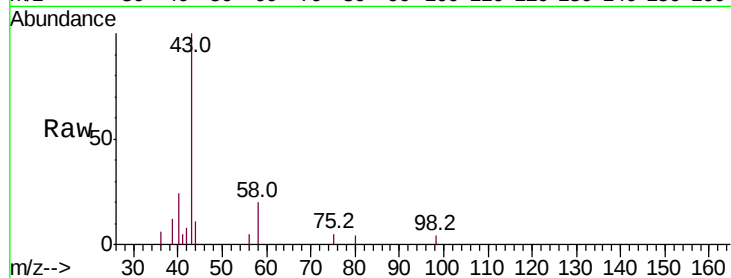
ClientSampleId :

Tot Ion: 43 Resp: 4331

Ion Ratio Lower Upper

43 100

58 19.6 22.3 33.5#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW013097.D

Acq: 17 Sep 2019 18:13

Tgt Ion: 84 Resp: 7567

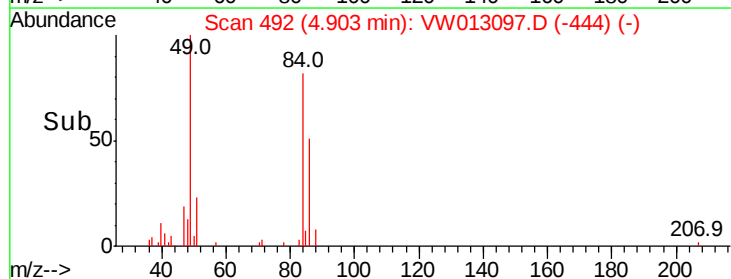
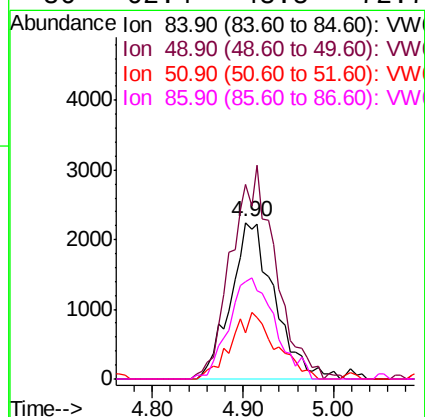
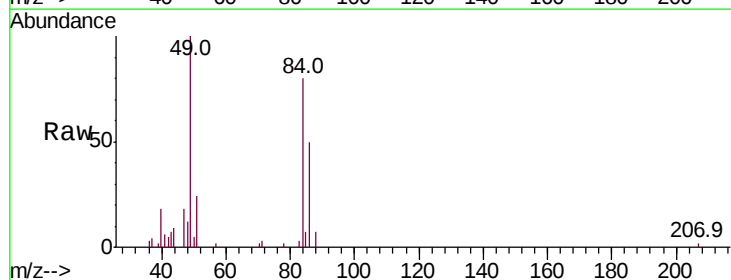
Ion Ratio Lower Upper

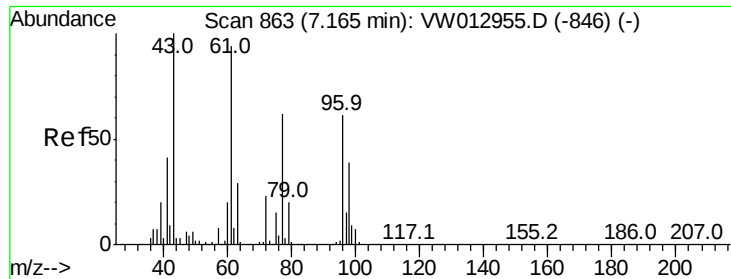
84 100

49 124.8 102.0 153.0

51 29.9 34.0 51.0#

86 62.4 48.5 72.7





#25

2-Butanone

Concen: 4.083 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW013097.D

Acq: 17 Sep 2019 18:13

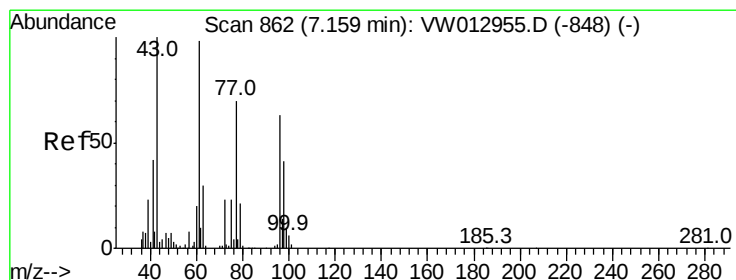
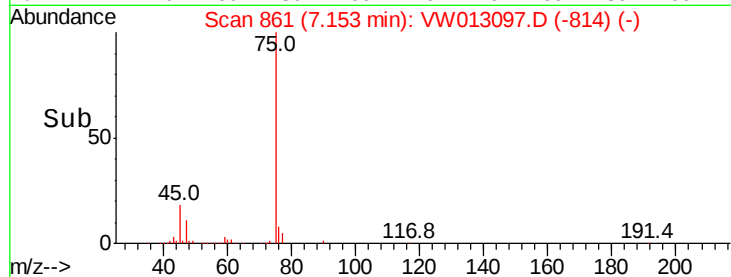
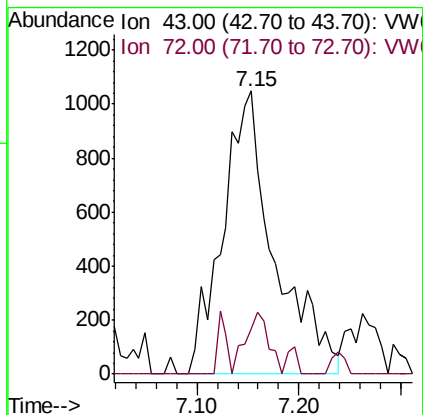
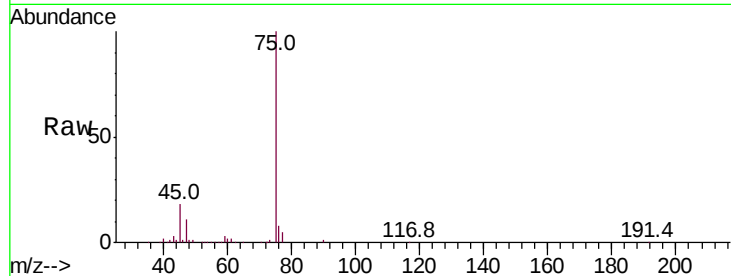
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 3706

Ion Ratio Lower Upper

43 100

72 16.2 18.2 27.4#



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW013097.D

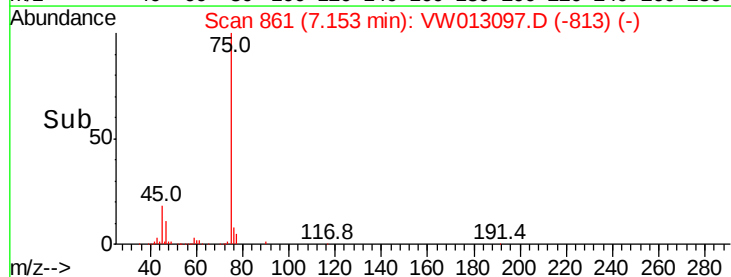
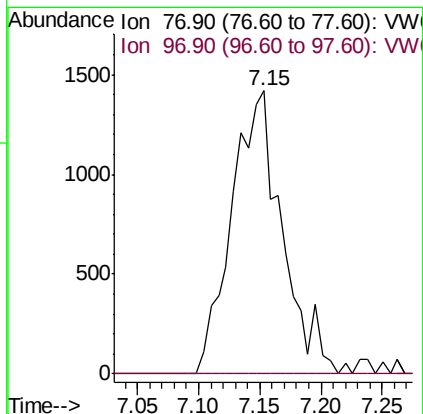
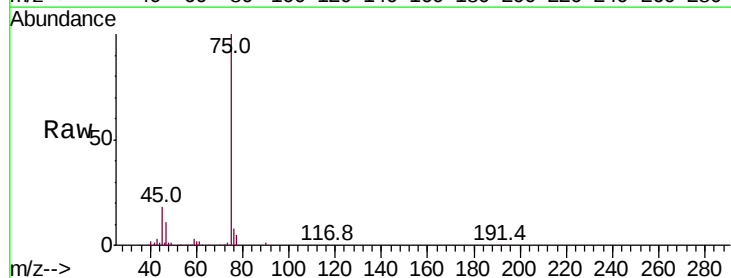
Acq: 17 Sep 2019 18:13

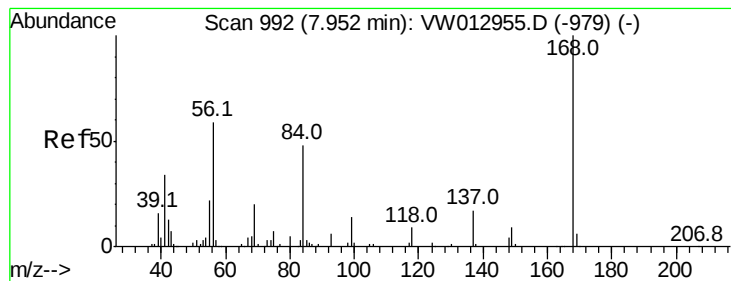
Tgt Ion: 77 Resp: 4056

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#





#31

Cyclohexane

Concen: Below Cal

RT: 7.95 min Scan# 991

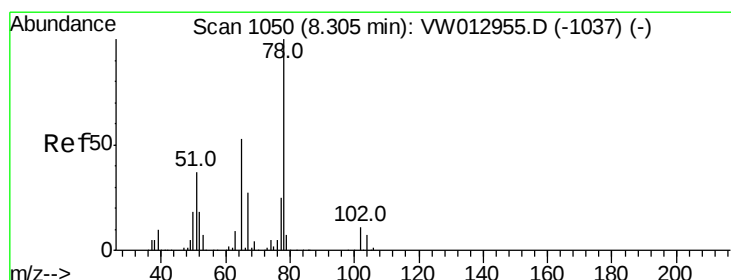
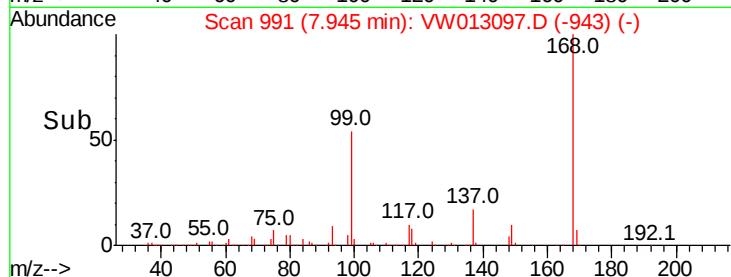
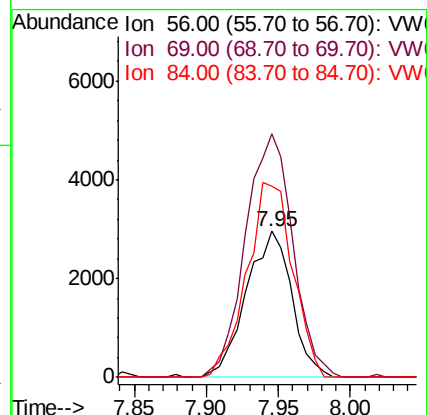
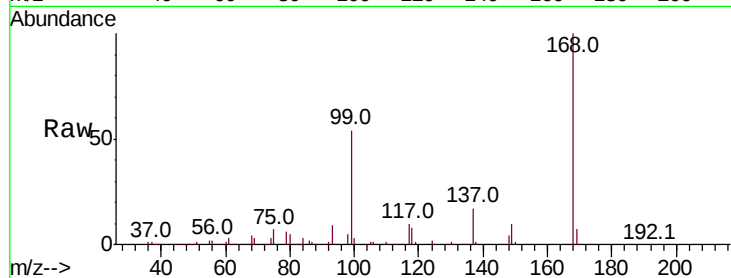
Delta R.T. -0.01 min

Lab File: VW013097.D

Acq: 17 Sep 2019 18:13

Instrument :  
MSVOA\_W  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 56    | Resp: | 6461  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 166.8 | 27.0  | 40.6# |
| 84       | 130.9 | 66.2  | 99.2# |



#33

1,2-Dichloroethane-d4

Concen: 52.984 ug/l

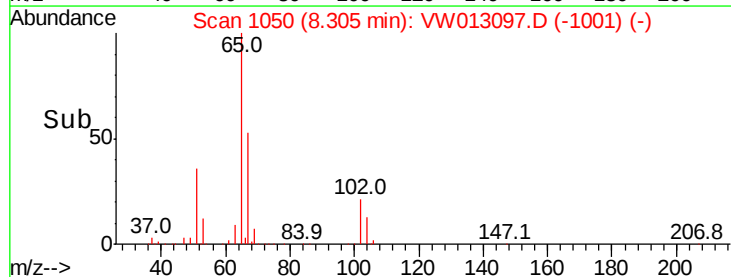
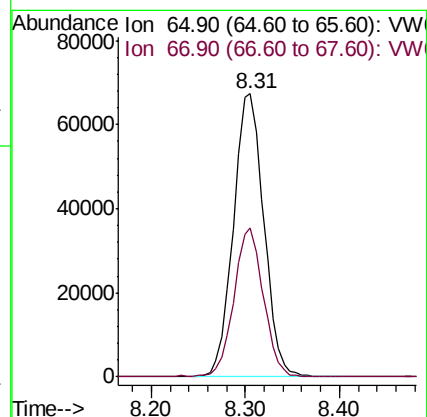
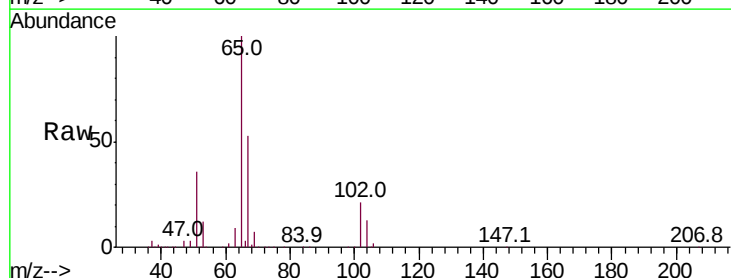
RT: 8.31 min Scan# 1050

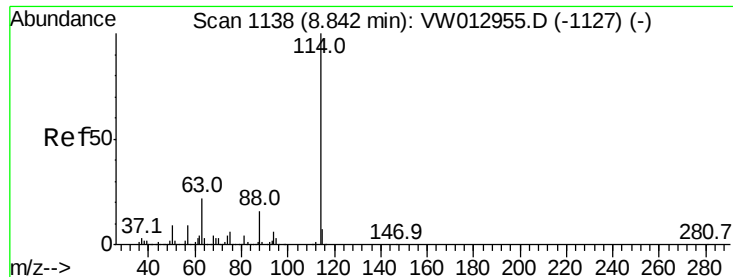
Delta R.T. -0.00 min

Lab File: VW013097.D

Acq: 17 Sep 2019 18:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 151233 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 50.9  | 0.0   | 101.2  |

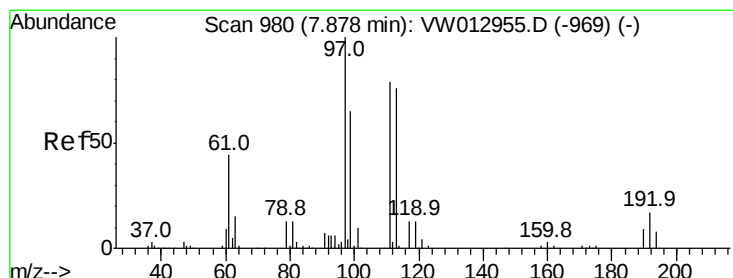
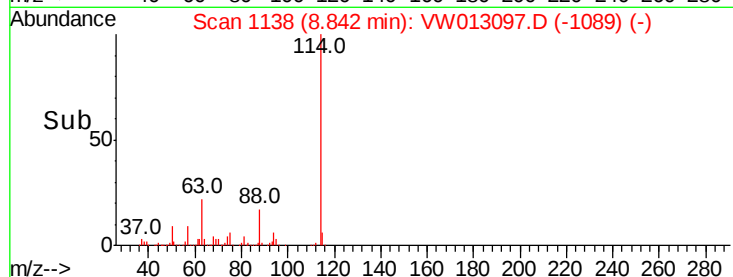
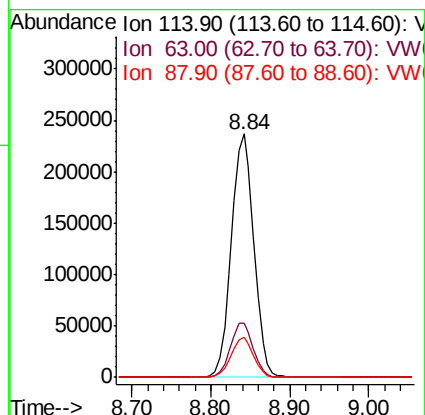
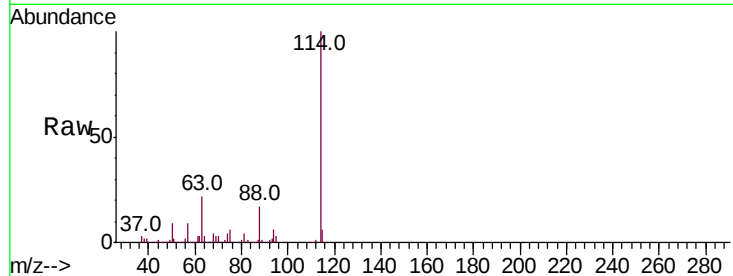




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW013097.D  
 Acq: 17 Sep 2019 18:13

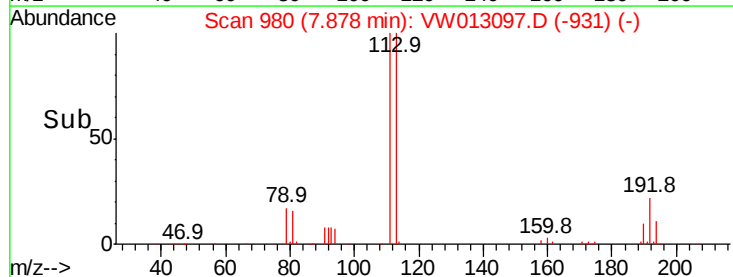
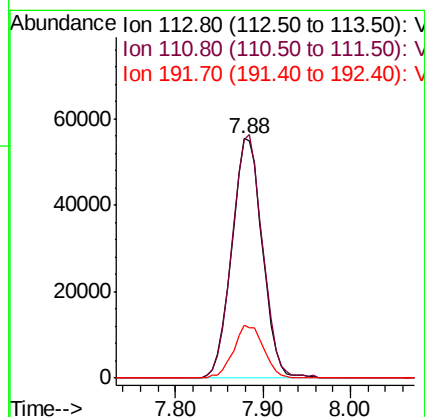
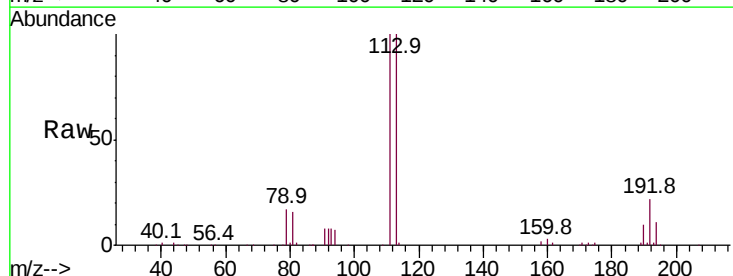
Instrument :  
 MSVOA\_W  
 ClientSampleId :

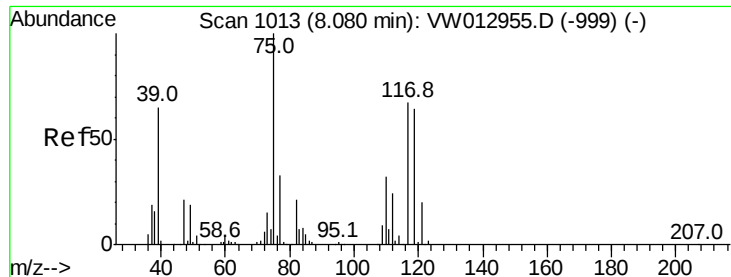
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.1  | 0.0   | 43.4  |
| 88      | 16.5  | 0.0   | 31.6  |



#35  
 Dibromofluoromethane  
 Concen: 52.937 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.00 min  
 Lab File: VW013097.D  
 Acq: 17 Sep 2019 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.3 | 82.8  | 124.2 |
| 192     | 21.8  | 17.8  | 26.8  |

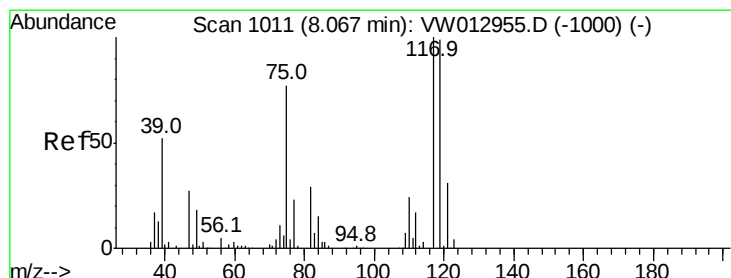
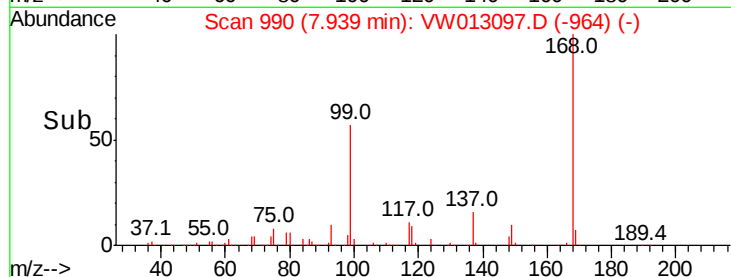
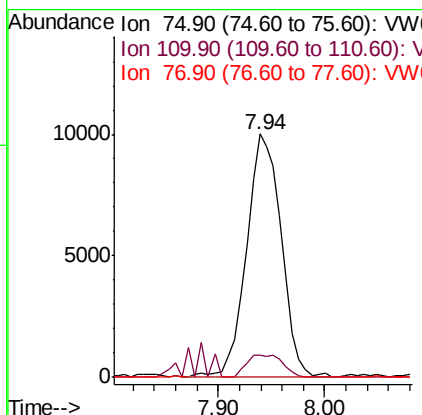
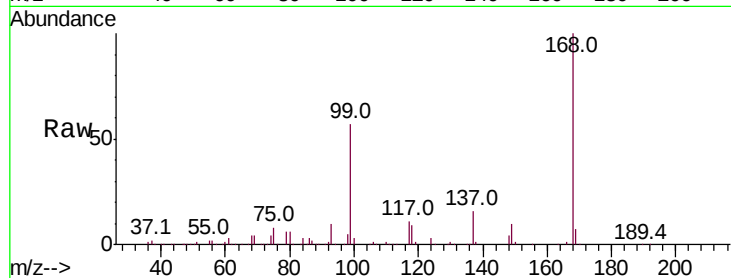




#36  
 1,1-Dichloropropene  
 Concen: 6.111 ug/l  
 RT: 7.94 min Scan# 990  
 Delta R.T. -0.14 min  
 Lab File: VW013097.D  
 Acq: 17 Sep 2019 18:13

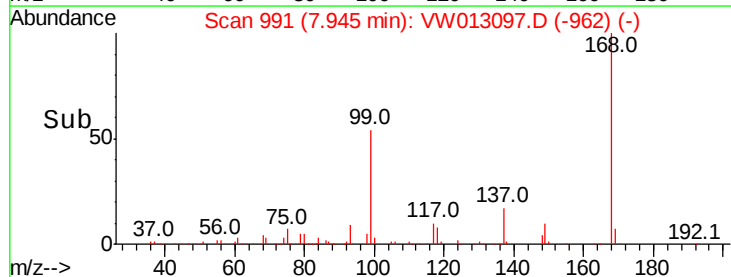
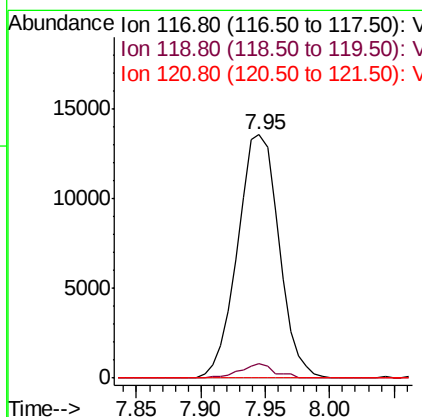
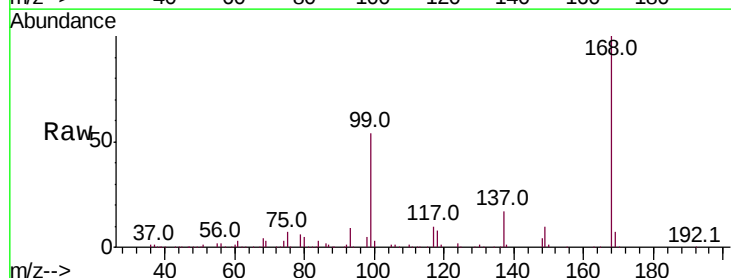
Instrument :  
 MSVOA\_W  
 ClientSampled :

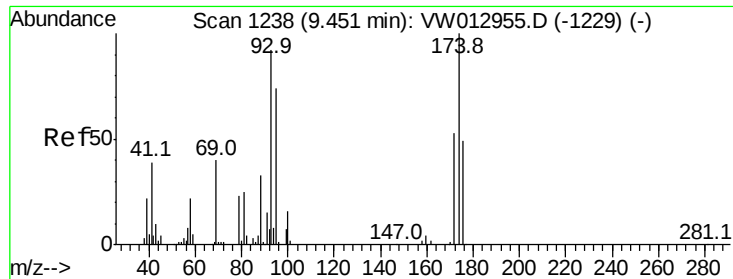
Tot Ion: 75 Resp: 22909  
 Ion Ratio Lower Upper  
 75 100  
 110 9.5 16.4 49.1#  
 77 0.0 25.1 37.7#



#38  
 Carbon Tetrachloride  
 Concen: 7.875 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW013097.D  
 Acq: 17 Sep 2019 18:13

Tgt Ion: 117 Resp: 30254  
 Ion Ratio Lower Upper  
 117 100  
 119 6.0 79.4 119.0#  
 121 0.0 24.6 36.8#





#49

1,4-Dioxane

Concen: 2.374 ug/l

RT: 9.48 min Scan# 1242

Delta R.T. 0.02 min

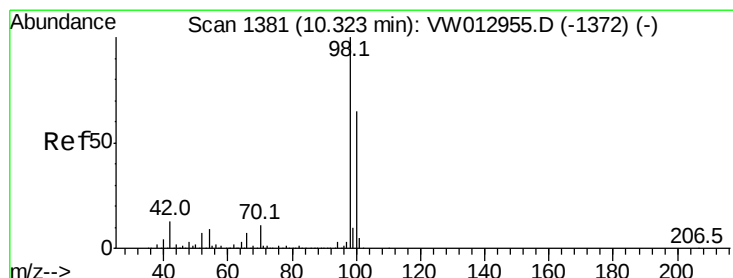
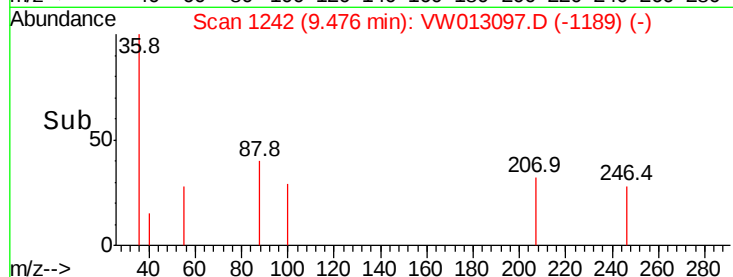
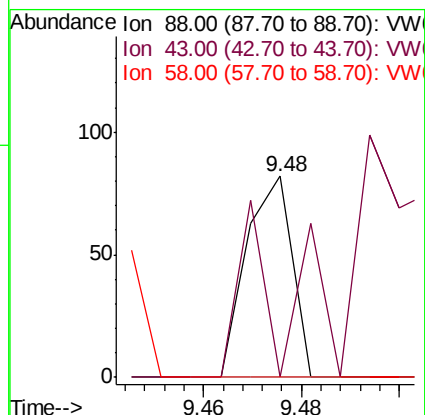
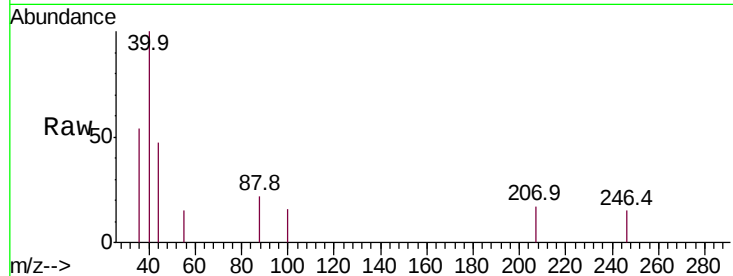
Lab File: VW013097.D

Acq: 17 Sep 2019 18:13

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 88 Resp: 53

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 49.1  | 31.3  | 46.9# |
| 58  | 0.0   | 60.2  | 90.2# |



#50

Toluene-d8

Concen: 55.525 ug/l

RT: 10.32 min Scan# 1381

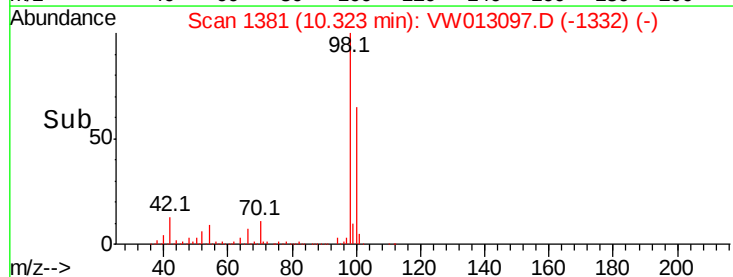
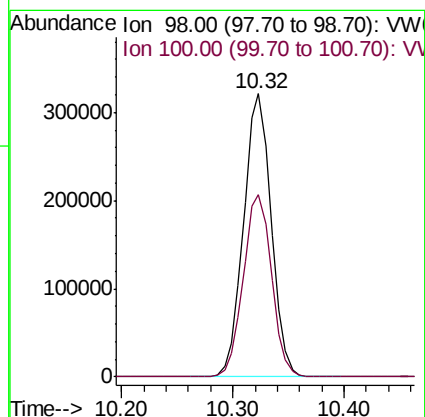
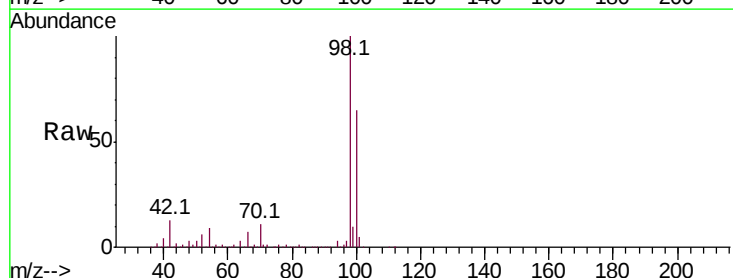
Delta R.T. -0.00 min

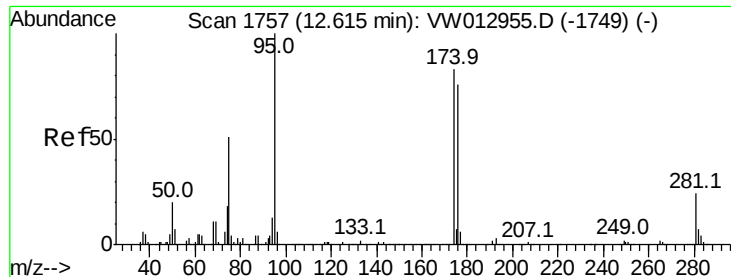
Lab File: VW013097.D

Acq: 17 Sep 2019 18:13

Tgt Ion: 98 Resp: 553093

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 65.9  | 52.1  | 78.1  |

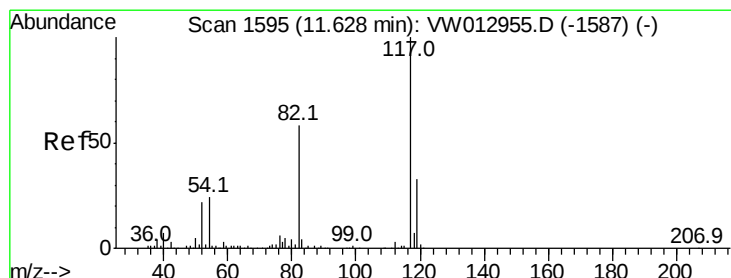
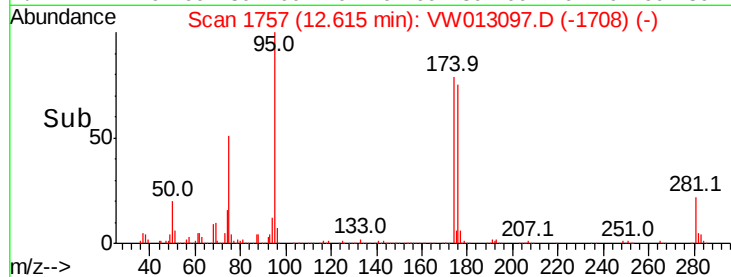
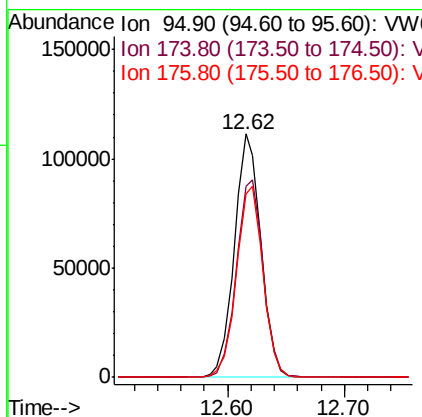
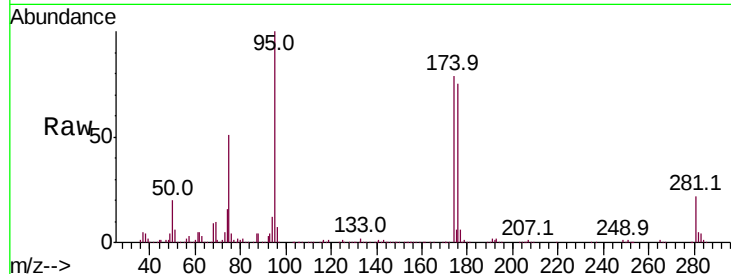




#62  
4-Bromofluorobenzene  
Concen: 49.111 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW013097.D  
Acq: 17 Sep 2019 18:13

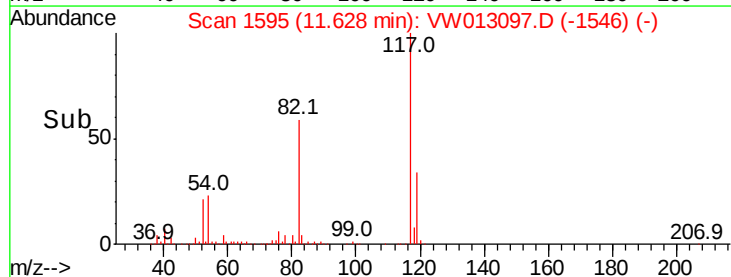
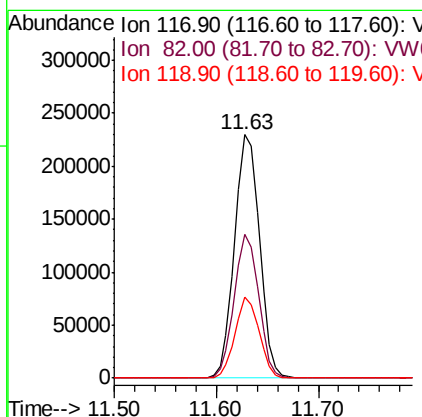
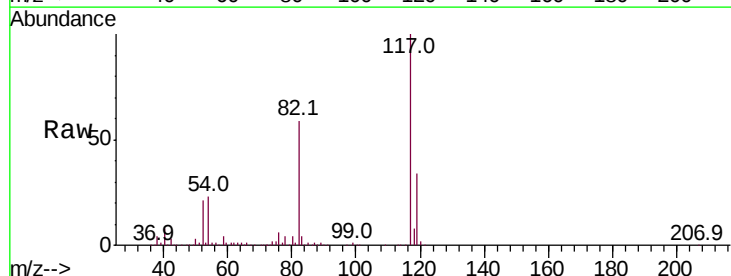
Instrument :  
MSVOA\_W  
ClientSampled :

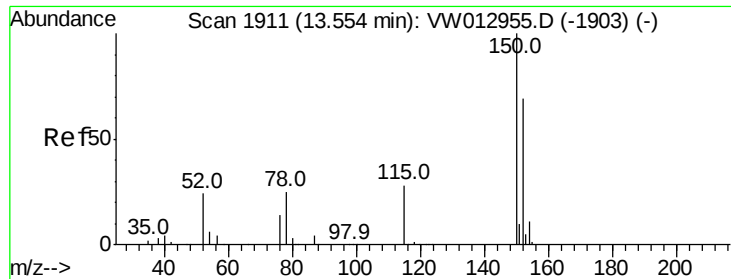
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 82.5  | 0.0   | 170.4 |
| 176     | 79.2  | 0.0   | 164.6 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VW013097.D  
Acq: 17 Sep 2019 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 59.1  | 46.3  | 69.5  |
| 119     | 33.5  | 26.2  | 39.4  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW013097.D

Acq: 17 Sep 2019 18:13

Instrument :

MSVOA\_W

ClientSampleId :

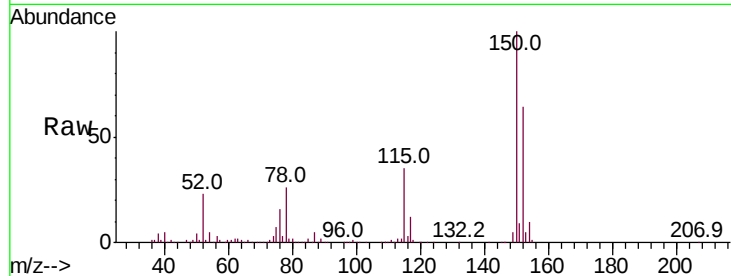
Tot Ion:152 Resp: 166979

Ion Ratio Lower Upper

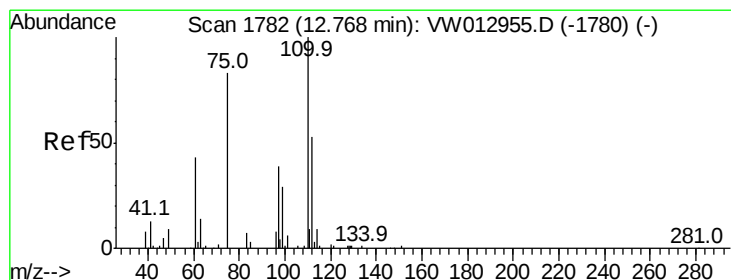
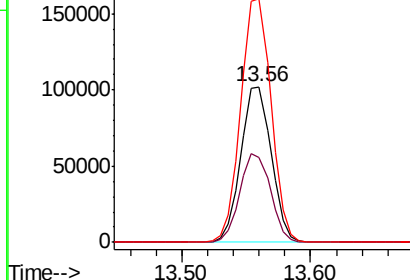
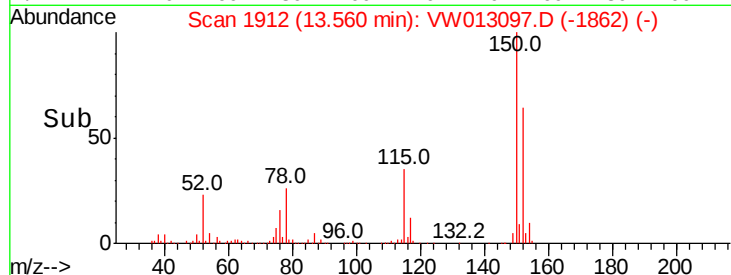
152 100

115 57.6 28.8 86.4

150 156.1 0.0 340.2



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: 61.755 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013097.D

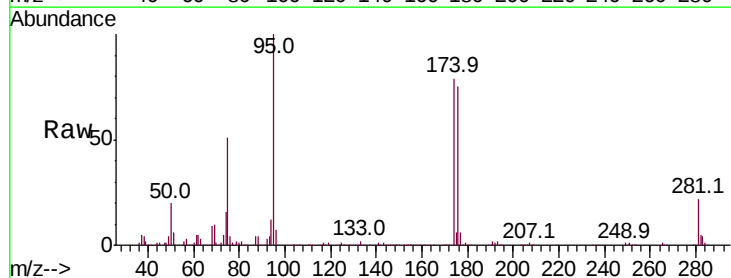
Acq: 17 Sep 2019 18:13

Tgt Ion: 75 Resp: 90323

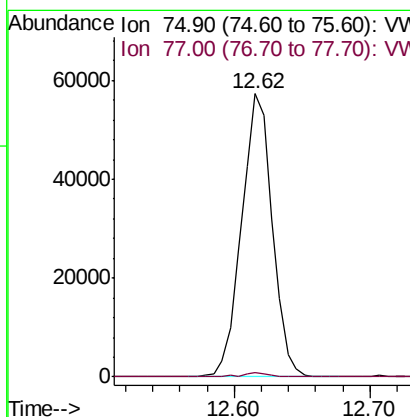
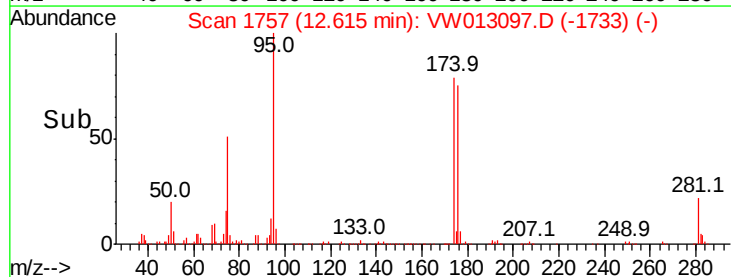
Ion Ratio Lower Upper

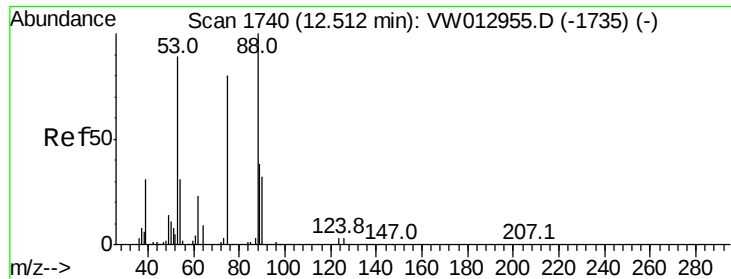
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 140.090 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013097.D

Acq: 17 Sep 2019 18:13

Instrument :

MSVOA\_W

ClientSampleId :

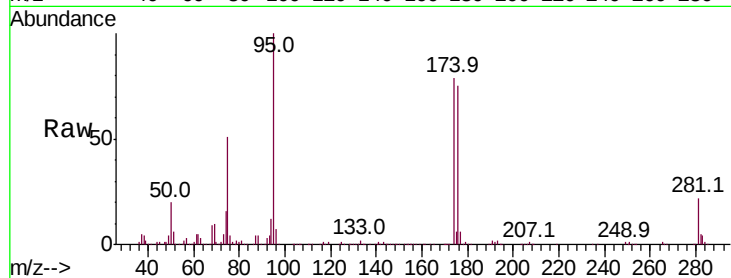
Tot Ion: 75 Resp: 90323

Ion Ratio Lower Upper

75 100

53 0.1 85.6 128.4#

89 0.3 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

