

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010920\  
 Data File : VW014586.D  
 Acq On : 09 Jan 2020 16:55  
 Operator : SY/VA  
 Sample : L1063-01  
 Misc : 8.91G/5ML/MSVOA W/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jan 10 00:48:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010320S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 03 16:07:20 2020  
 Response via : Initial Calibration

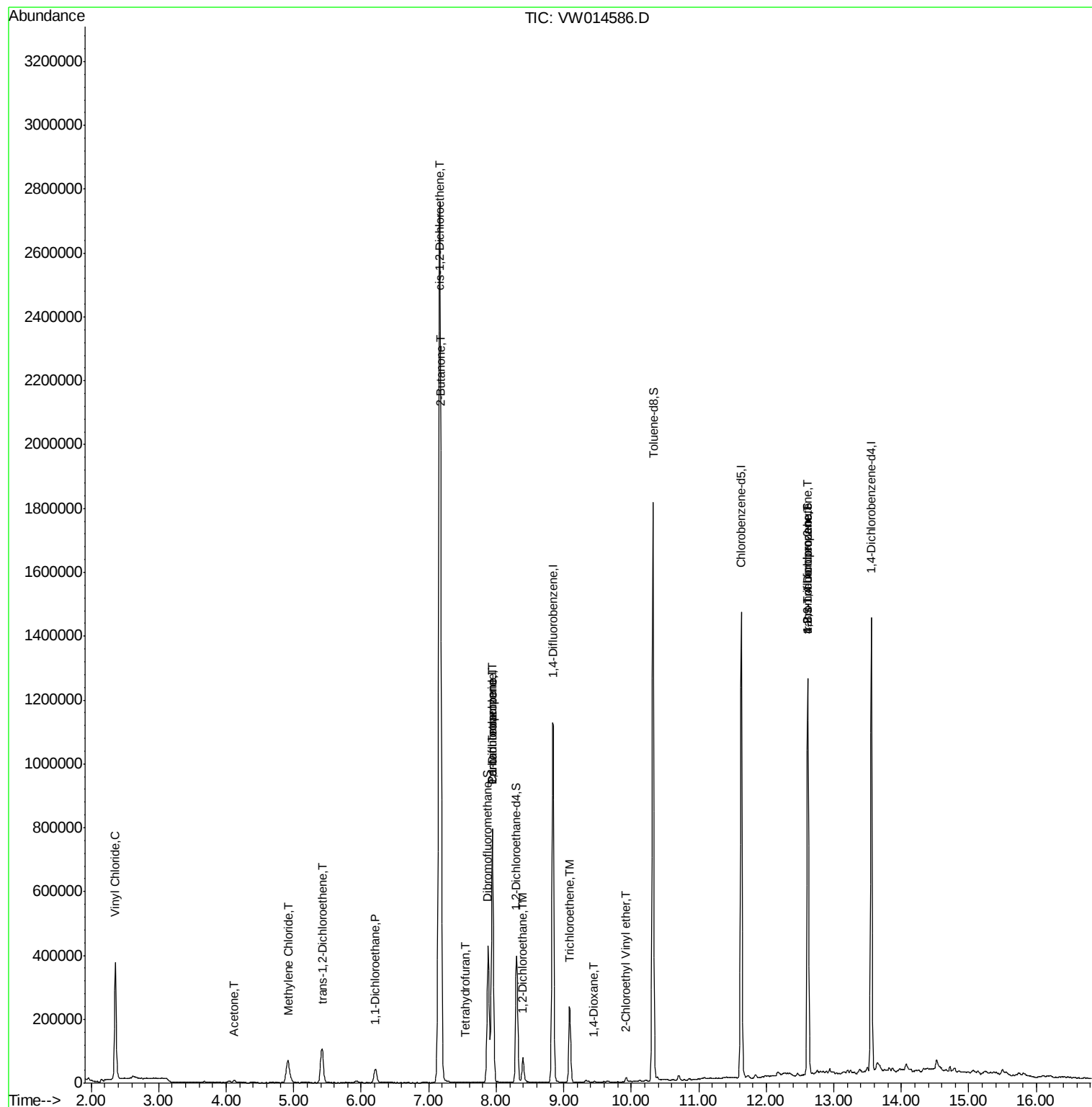
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.95  | 168  | 653849   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.84  | 114  | 1010124  | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.63 | 117  | 875632   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.55 | 152  | 397242   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.30  | 65   | 306833   | 53.67     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 107.34% |          |
| 35) Dibromofluoromethane       | 7.88  | 113  | 314876   | 54.54     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 109.08% |          |
| 50) Toluene-d8                 | 10.32 | 98   | 1253348  | 52.02     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 104.04% |          |
| 62) 4-Bromofluorobenzene       | 12.62 | 95   | 420869   | 51.50     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 103.00% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 4) Vinyl Chloride              | 2.36  | 62   | 412636   | 62.084    | ug/l    | 98       |
| 11) Tert butyl alcohol         | 5.14  | 59   | 673      | Below Cal | #       | 73       |
| 16) Acetone                    | 4.12  | 43   | 13006    | 8.057     | ug/l    | 97       |
| 20) Methylene Chloride         | 4.92  | 84   | 64173    | 5.839     | ug/l    | 93       |
| 21) trans-1,2-Dichloroethene   | 5.42  | 96   | 71626    | 10.367    | ug/l    | 98       |
| 24) 1,1-Dichloroethane         | 6.21  | 63   | 61105    | 5.205     | ug/l    | 96       |
| 25) 2-Butanone                 | 7.18  | 43   | 4105     | 1.982     | ug/l #  | 1        |
| 27) cis-1,2-Dichloroethene     | 7.17  | 96   | 1772682  | 244.180   | ug/l    | 93       |
| 29) Tetrahydrofuran            | 7.53  | 42   | 1757     | 1.369     | ug/l    | 95       |
| 36) 1,1-Dichloropropene        | 7.94  | 75   | 43316    | 4.448     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 56409    | 6.677     | ug/l #  | 16       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 65067    | 9.100     | ug/l    | 98       |
| 44) Trichloroethene            | 9.09  | 130  | 90420    | 12.128    | ug/l    | 94       |
| 49) 1,4-Dioxane                | 9.44  | 88   | 187      | 2.995     | ug/l #  | 46       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 6792     | 3.525     | ug/l    | 99       |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 197697   | 52.637    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 197697   | 117.277   | ug/l #  | 14       |

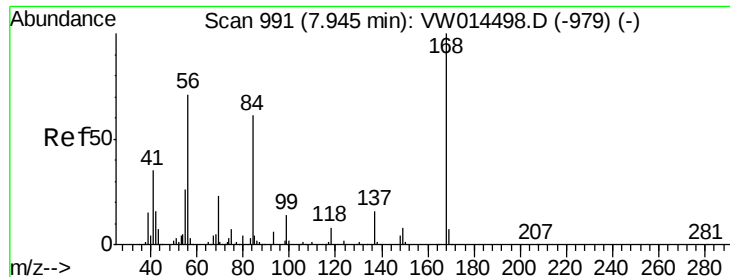
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010920\  
Data File : VW014586.D  
Acq On : 09 Jan 2020 16:55  
Operator : SY/VA  
Sample : L1063-01  
Misc : 8.91G/5ML/MSVOA W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jan 10 00:48:12 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010320S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 03 16:07:20 2020  
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: VW014586.D

Acq: 09 Jan 2020 16:55

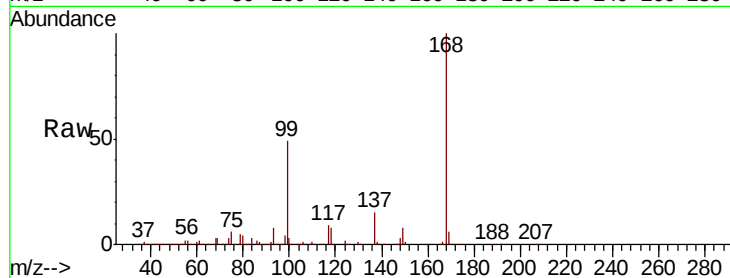
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 653849

Ion Ratio Lower Upper

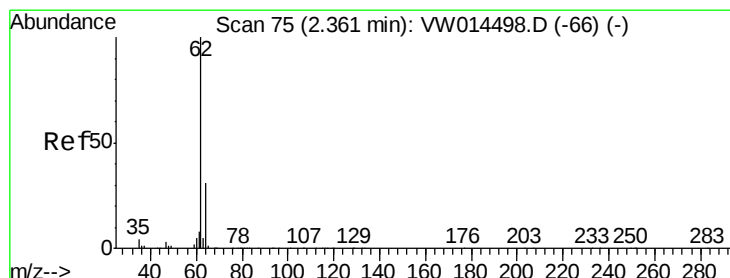
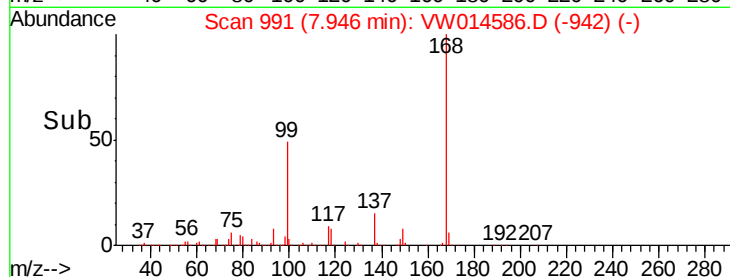
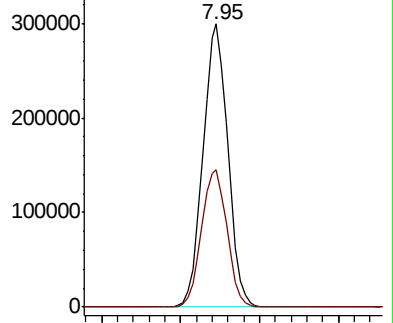
168 100

99 48.5 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#4

Vinyl Chloride

Concen: 62.084 ug/l

RT: 2.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW014586.D

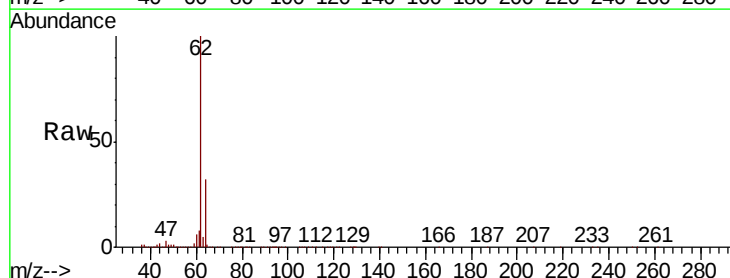
Acq: 09 Jan 2020 16:55

Tgt Ion: 62 Resp: 412636

Ion Ratio Lower Upper

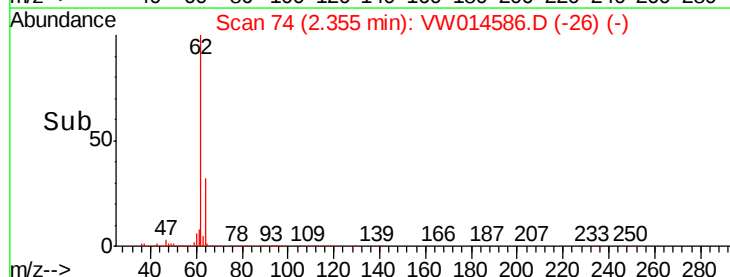
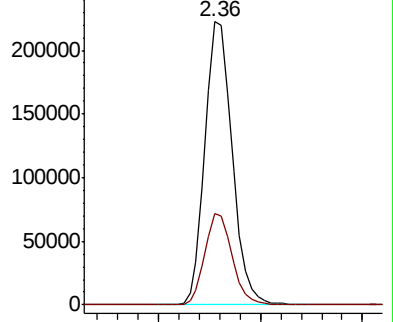
62 100

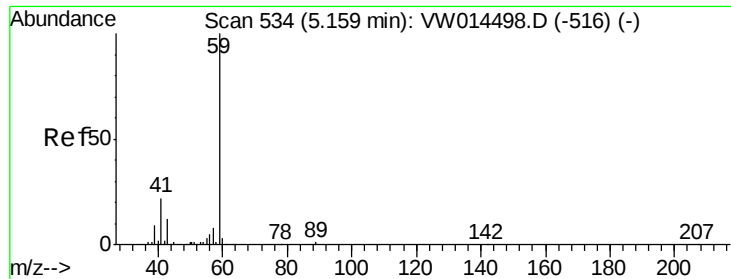
64 32.3 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW



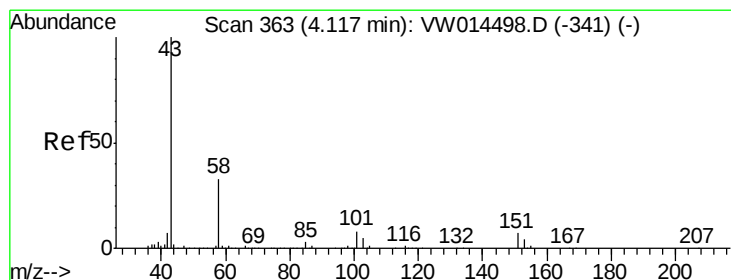
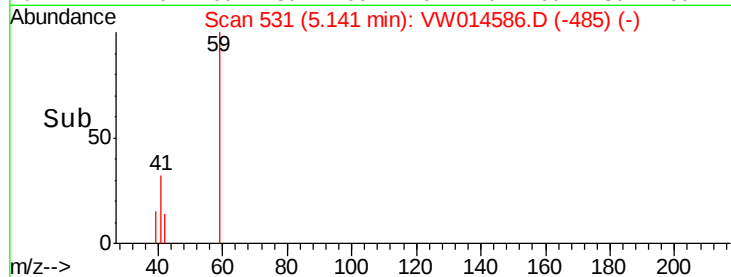
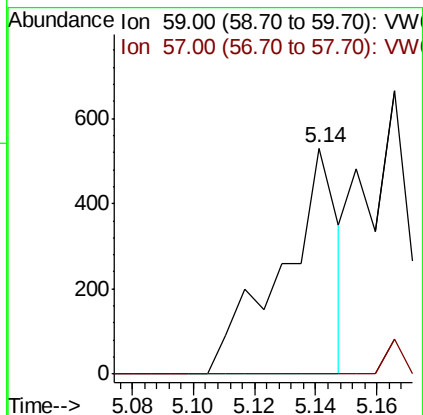
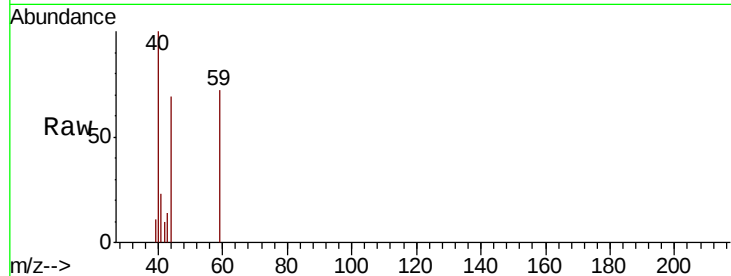


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.14 min Scan# 531  
 Delta R.T. -0.02 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

Instrument :  
 MSVOA\_W  
 ClientSampled :

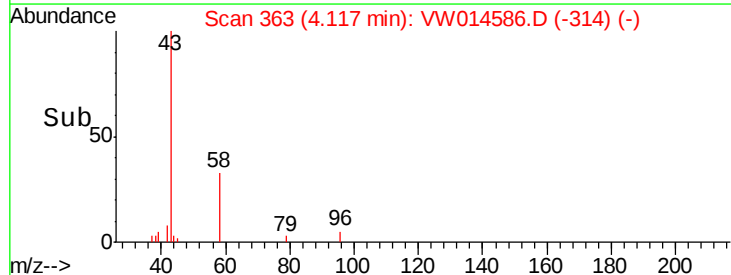
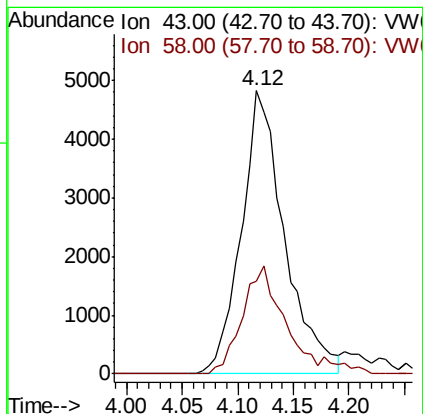
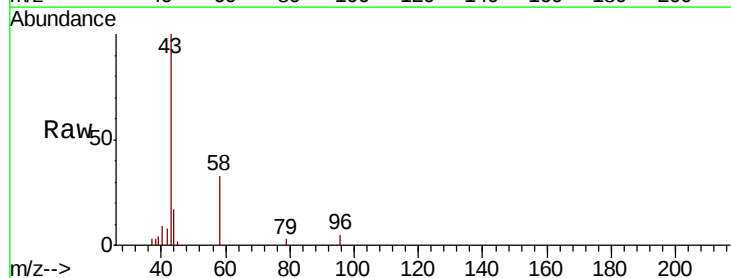
Tot Ion: 59 Resp: 673  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.8 11.8#

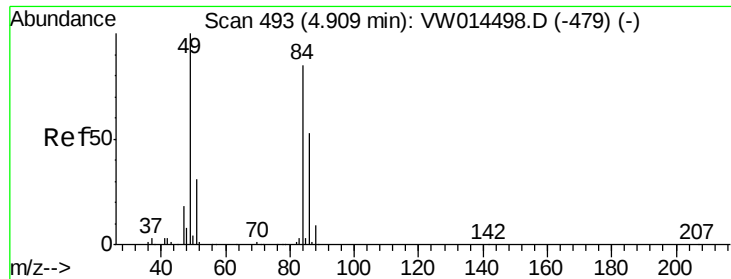


#16

Acetone  
 Concen: 8.057 ug/l  
 RT: 4.12 min Scan# 363  
 Delta R.T. 0.00 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

Tgt Ion: 43 Resp: 13006  
 Ion Ratio Lower Upper  
 43 100  
 58 31.3 26.6 39.8

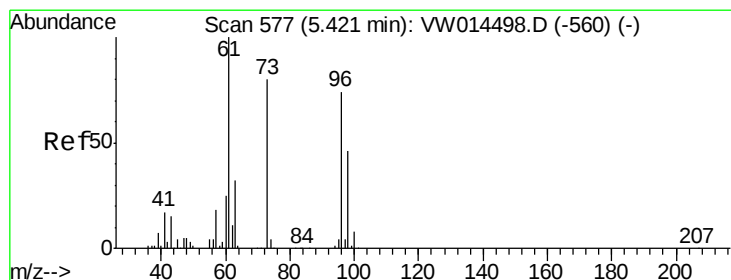
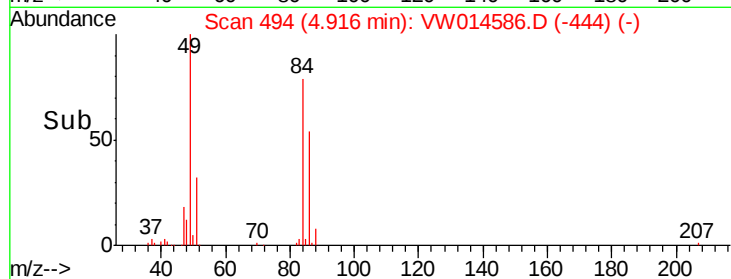
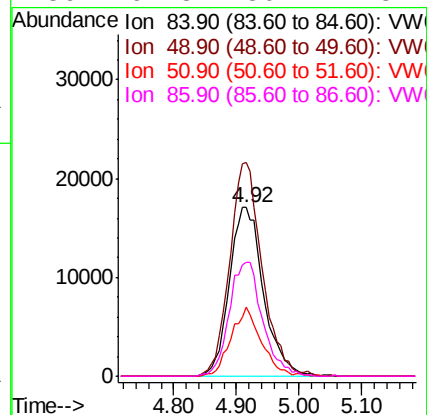
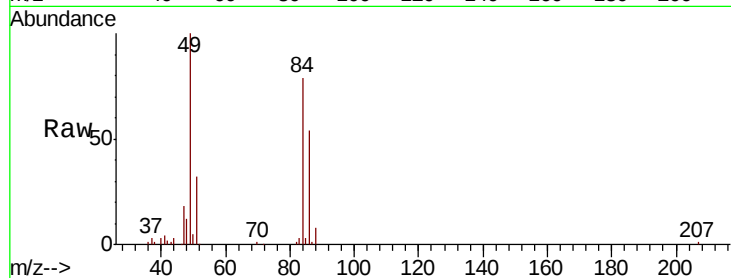




#20  
Methvlene Chloride  
Concen: 5.839 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW014586.D  
Acq: 09 Jan 2020 16:55

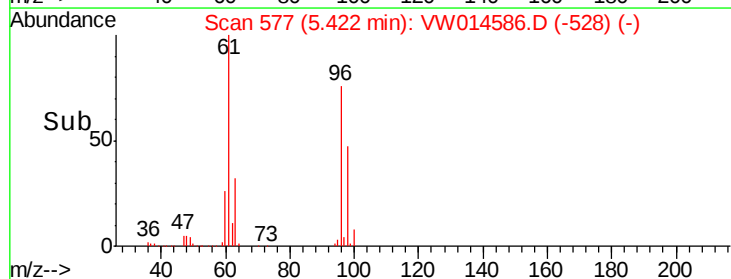
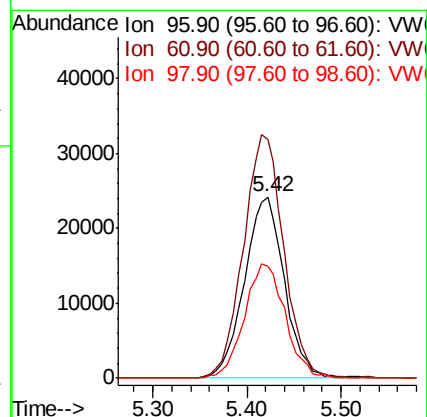
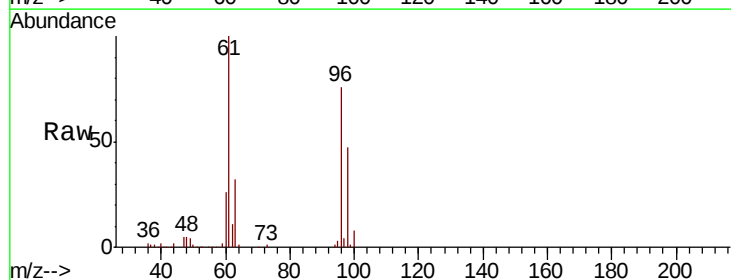
Instrument :  
MSVOA\_W  
ClientSampleId :

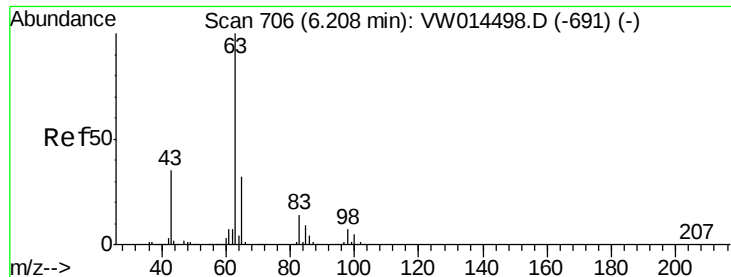
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 64173 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 126.5 | 94.4  | 141.6 |
| 51       | 41.0  | 29.5  | 44.3  |
| 86       | 67.8  | 50.2  | 75.2  |



#21  
trans-1,2-Dichloroethene  
Concen: 10.367 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. 0.00 min  
Lab File: VW014586.D  
Acq: 09 Jan 2020 16:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 71626 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 131.6 | 107.8 | 161.6 |
| 98       | 62.0  | 49.4  | 74.0  |





#24

1,1-Dichloroethane

Concen: 5.205 ug/l

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Instrument :  
MSVOA\_W  
ClientSampled :

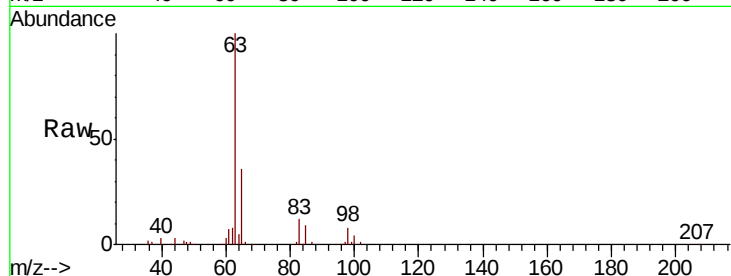
Tot Ion: 63 Resp: 61105

Ion Ratio Lower Upper

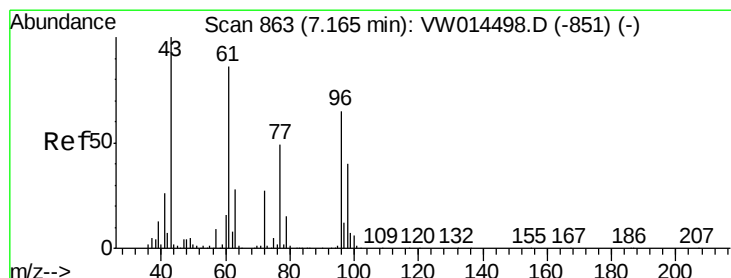
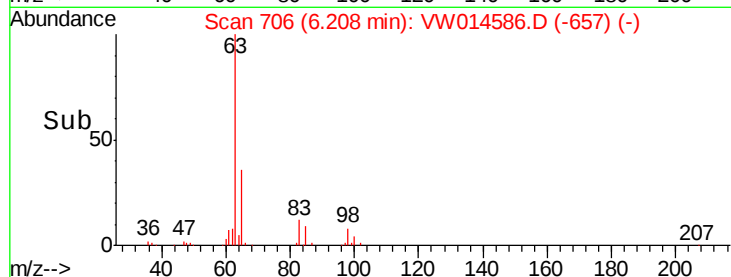
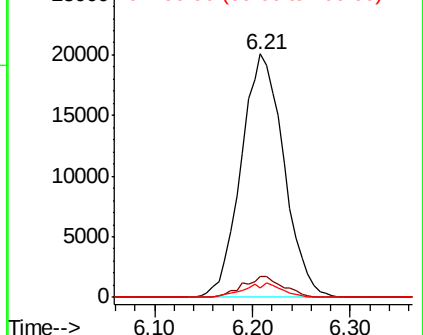
63 100

98 8.4 3.5 10.4

100 4.0 2.5 7.4



Abundance Ion 62.90 (62.60 to 63.60): VW  
Ion 97.90 (97.60 to 98.60): VW  
Ion 99.90 (99.60 to 100.60): VW



#25

2-Butanone

Concen: 1.982 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW014586.D

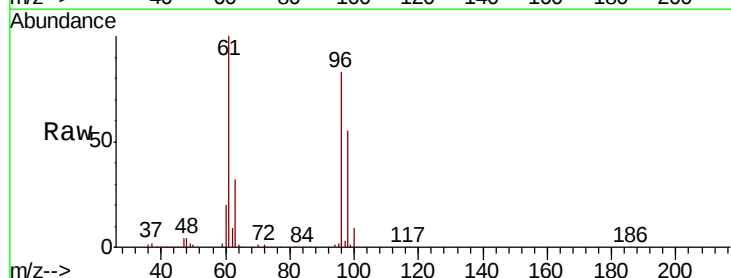
Acq: 09 Jan 2020 16:55

Tgt Ion: 43 Resp: 4105

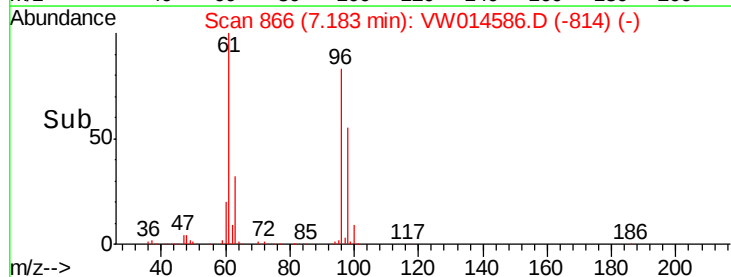
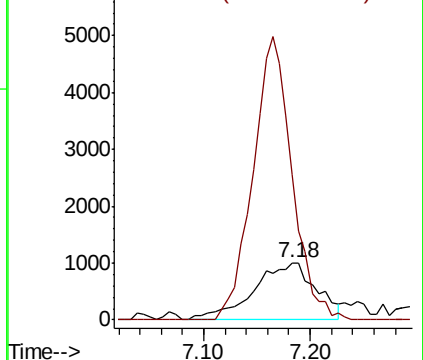
Ion Ratio Lower Upper

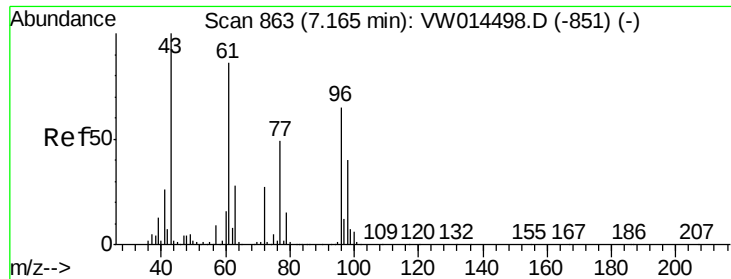
43 100

72 254.8 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW



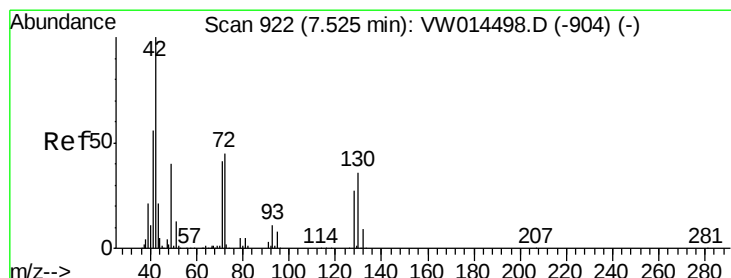
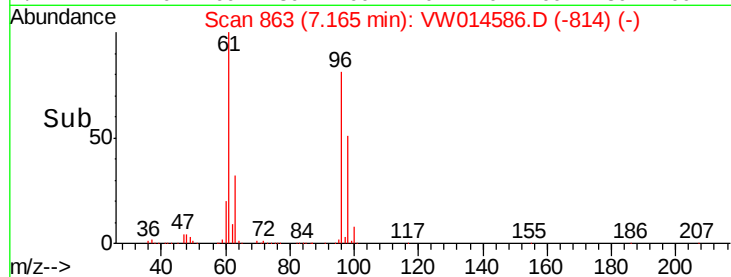
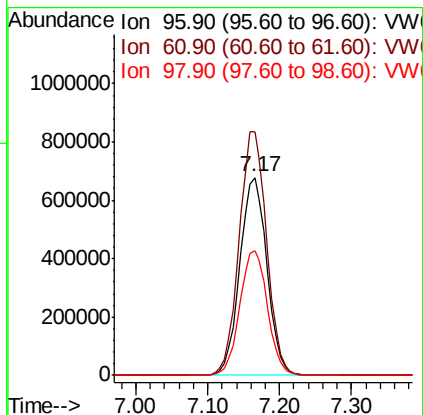
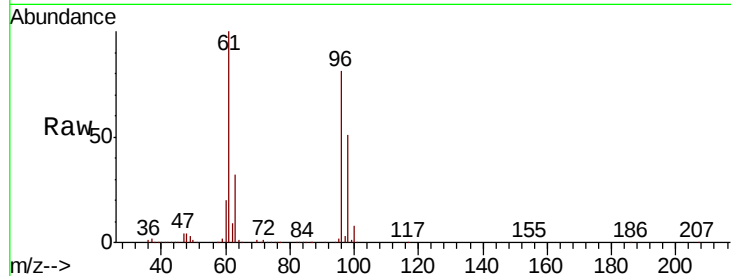


#27

cis-1,2-Dichloroethene  
Concen: 244.180 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VW014586.D  
Acq: 09 Jan 2020 16:55

Instrument :  
MSVOA\_W  
ClientSampled :

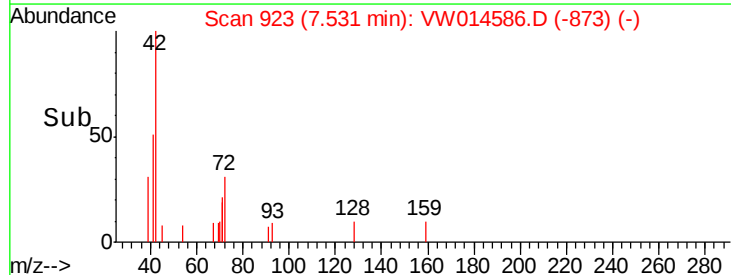
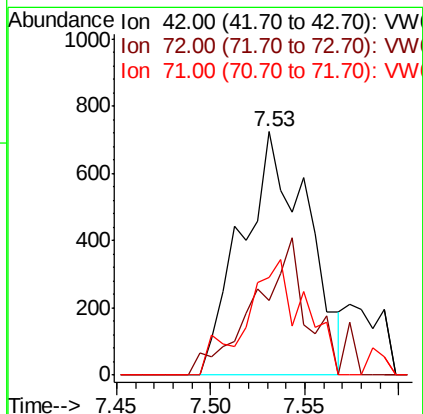
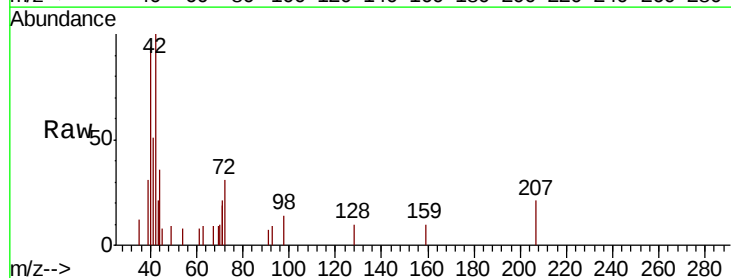
Tot Ion: 96 Resp: 1772682  
Ion Ratio Lower Upper  
96 100  
61 124.8 0.0 274.8  
98 64.2 0.0 128.6

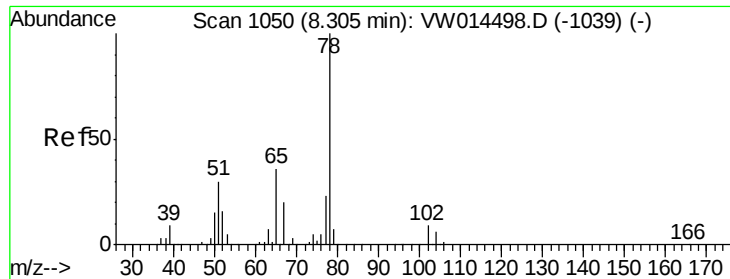


#29

Tetrahydrofuran  
Concen: 1.369 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.01 min  
Lab File: VW014586.D  
Acq: 09 Jan 2020 16:55

Tgt Ion: 42 Resp: 1757  
Ion Ratio Lower Upper  
42 100  
72 47.4 34.5 51.7  
71 42.5 32.0 48.0

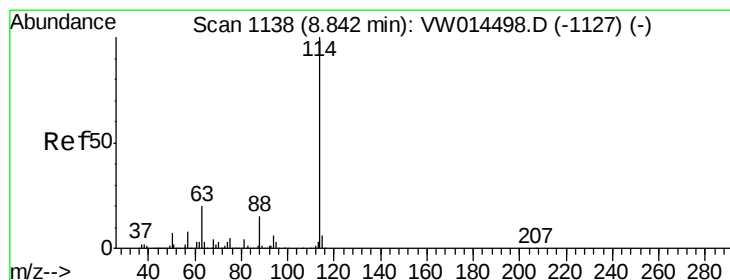
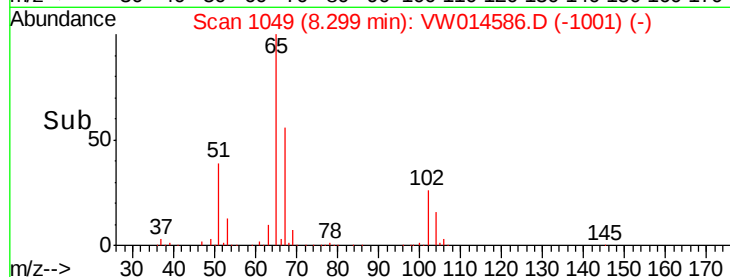
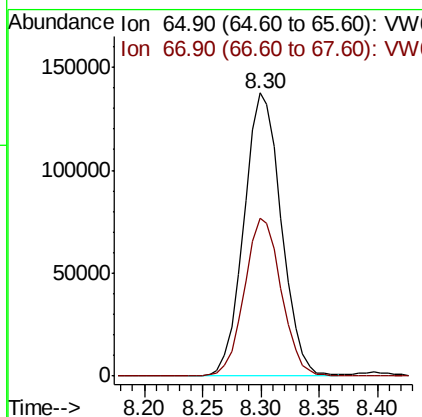
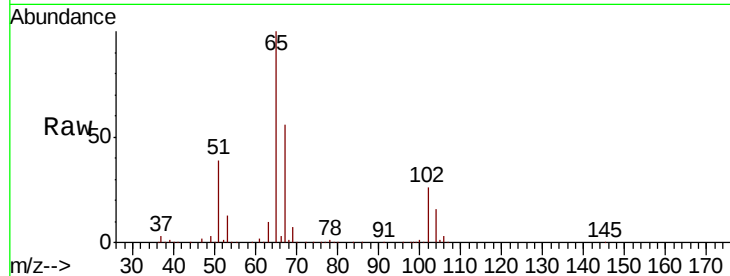




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.673 ug/l  
 RT: 8.30 min Scan# 1049  
 Delta R.T. -0.01 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

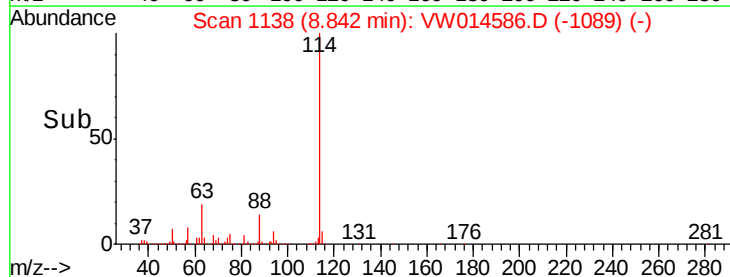
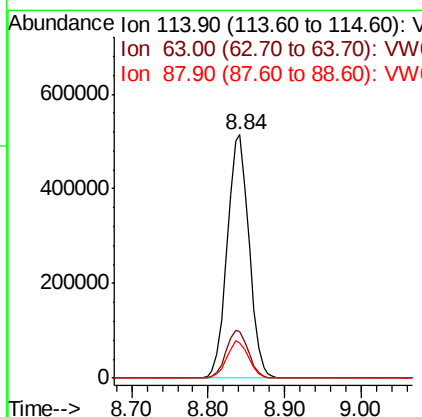
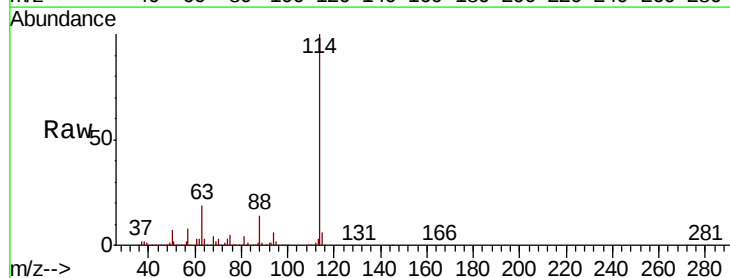
Instrument :  
 MSVOA\_W  
 ClientSampled :

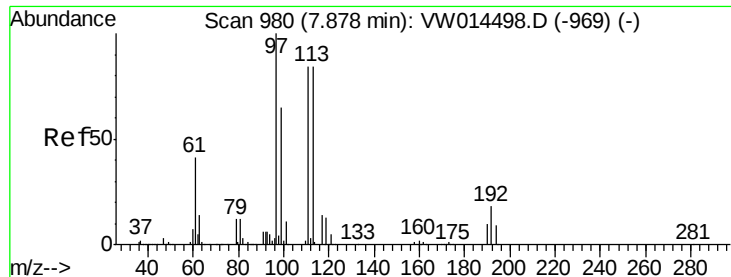
Tot Ion: 65 Resp: 306833  
 Ion Ratio Lower Upper  
 65 100  
 67 55.1 0.0 108.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

Tgt Ion: 114 Resp: 1010124  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 40.4  
 88 14.5 0.0 30.6

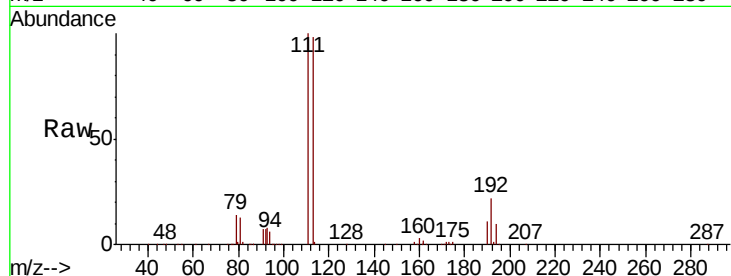




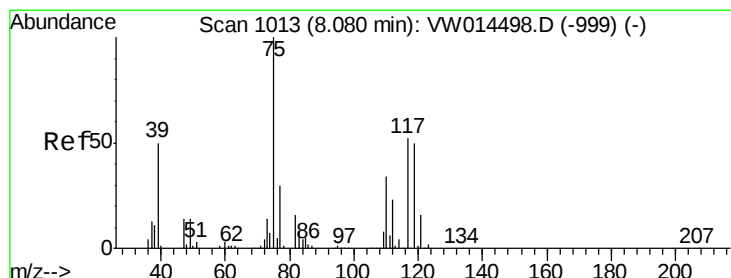
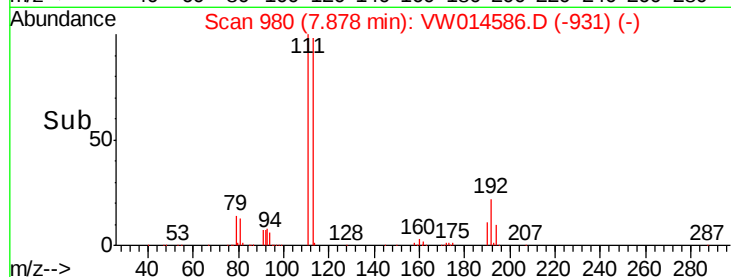
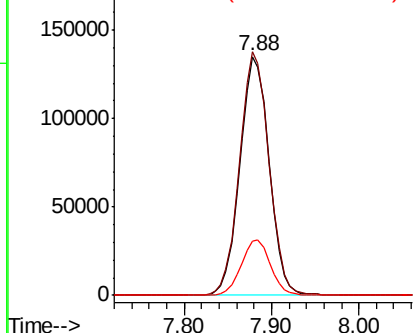
#35  
 Dibromofluoromethane  
 Concen: 54.543 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. 0.00 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:113 Resp: 314876  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 81.4 122.2  
 192 23.0 17.8 26.8

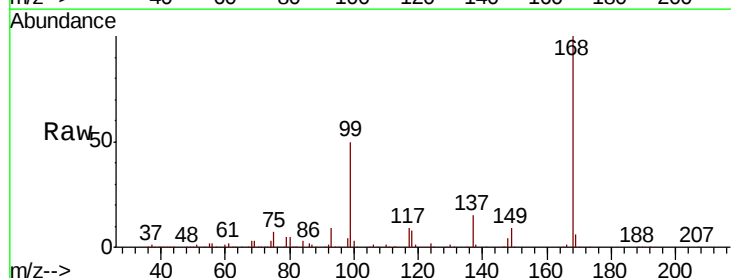


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

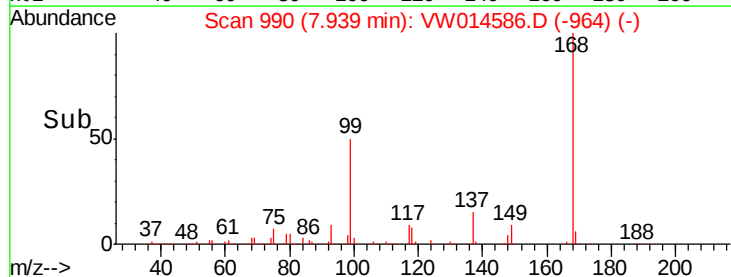
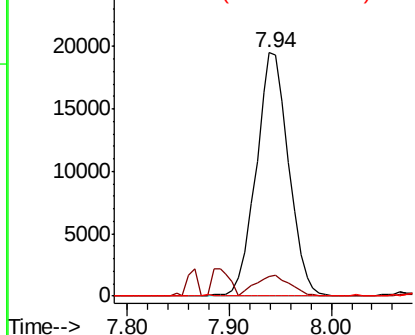


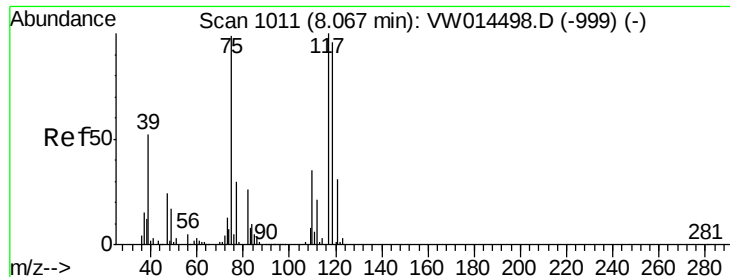
#36  
 1,1-Dichloropropene  
 Concen: 4.448 ug/l  
 RT: 7.94 min Scan# 990  
 Delta R.T. -0.14 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

Tgt Ion: 75 Resp: 43316  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 17.8 53.5#  
 77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VW  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VW

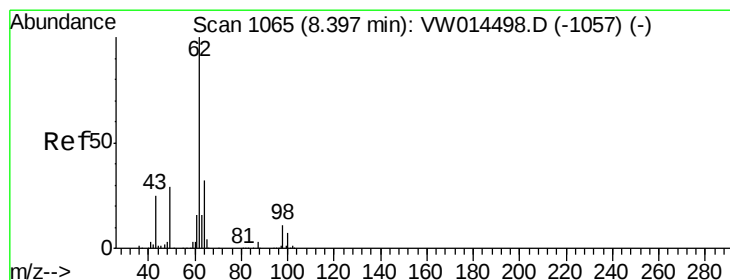
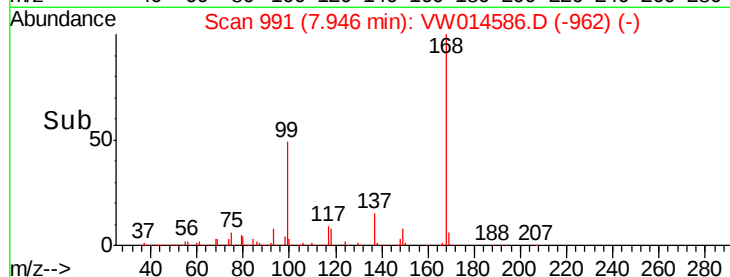
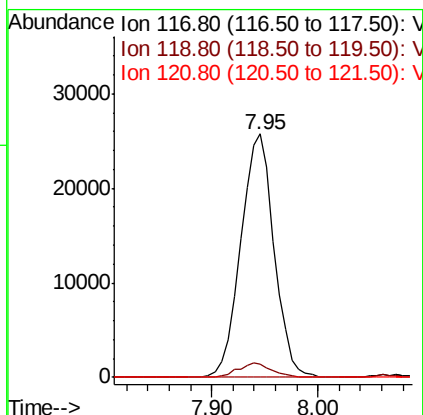
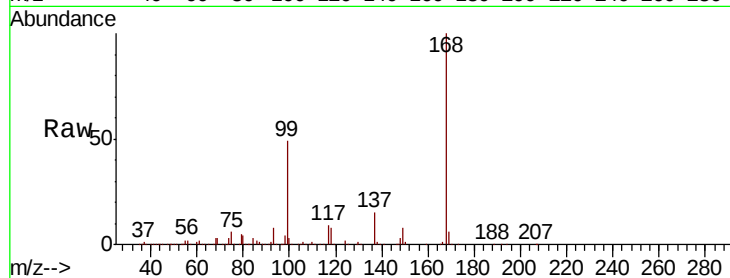




#38  
 Carbon Tetrachloride  
 Concen: 6.677 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

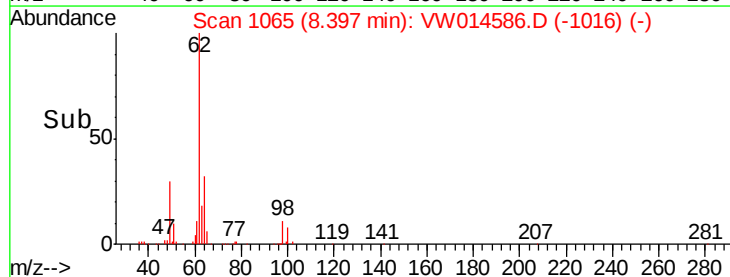
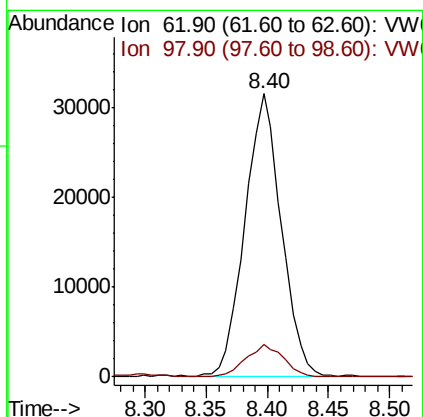
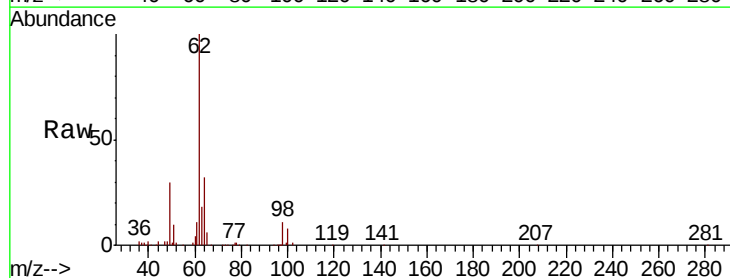
Instrument :  
 MSVOA\_W  
 ClientSampleId :

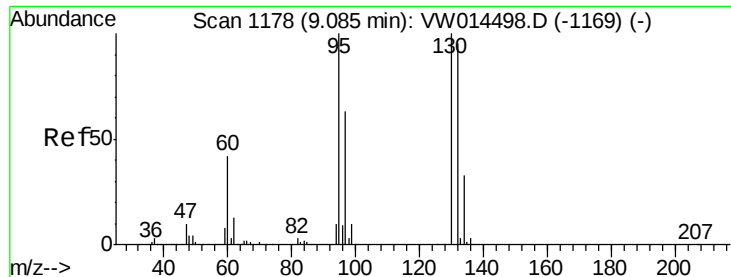
Tot Ion:117 Resp: 56409  
 Ion Ratio Lower Upper  
 117 100  
 119 5.4 77.0 115.6#  
 121 0.0 24.6 36.8#



#42  
 1,2-Dichloroethane  
 Concen: 9.100 ug/l  
 RT: 8.40 min Scan# 1065  
 Delta R.T. 0.00 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

Tgt Ion: 62 Resp: 65067  
 Ion Ratio Lower Upper  
 62 100  
 98 11.9 0.0 22.0





#44

Trichloroethene

Concen: 12.128 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Instrument :

MSVOA\_W

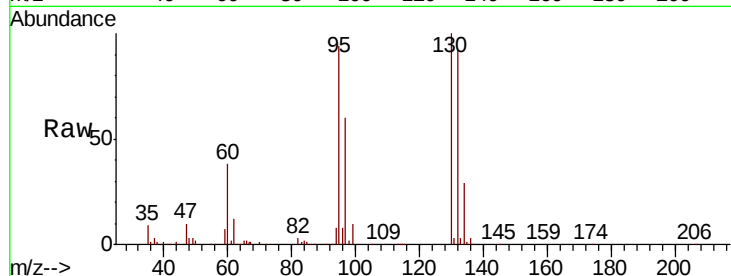
ClientSampled :

Tot Ion:130 Resp: 90420

Ion Ratio Lower Upper

130 100

95 94.0 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): VW

Ion 94.90 (94.60 to 95.60): VW

9.09

50000

40000

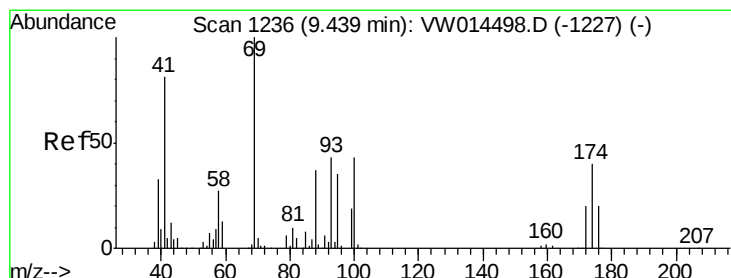
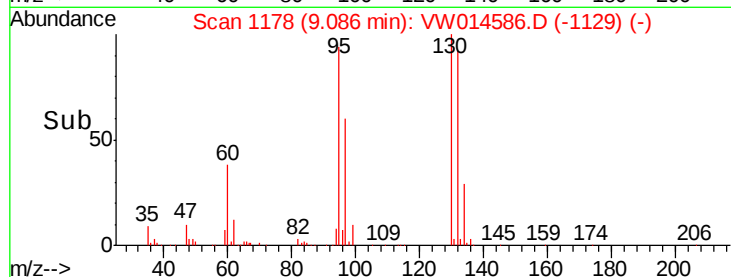
30000

20000

10000

0

Time-->



#49

1,4-Dioxane

Concen: 2.995 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

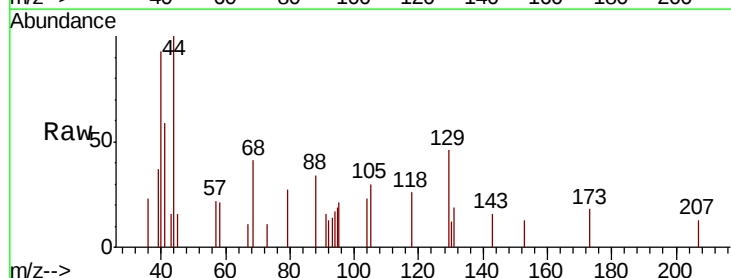
Tgt Ion: 88 Resp: 187

Ion Ratio Lower Upper

88 100

43 87.2 24.9 37.3#

58 98.4 56.9 85.3#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

300

250

200

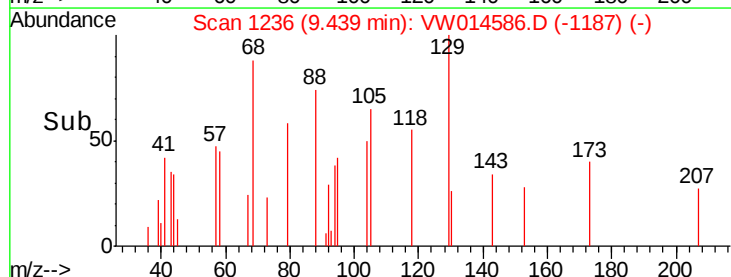
150

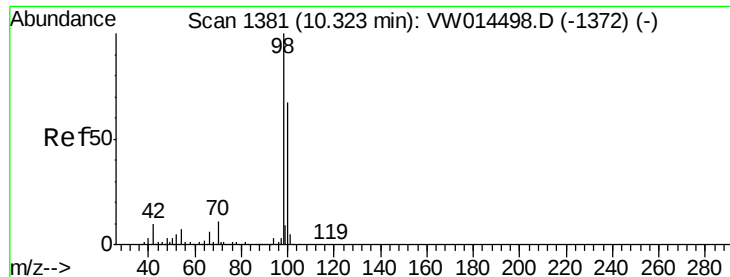
100

50

0

Time-->





#50

Toluene-d8

Concen: 52.023 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Instrument :

MSVOA\_W

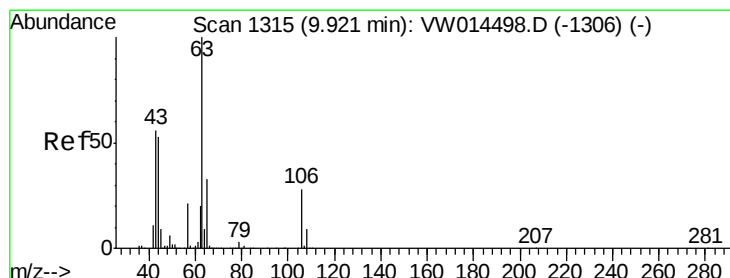
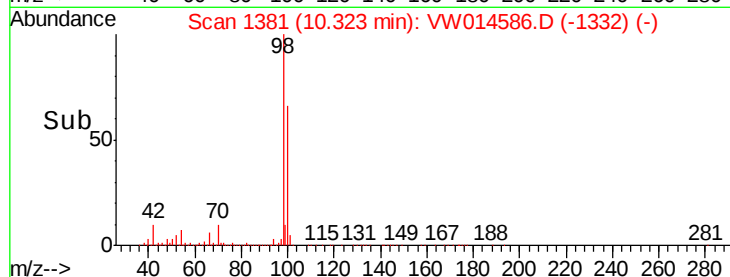
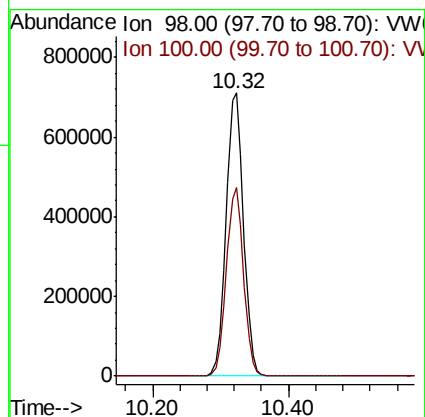
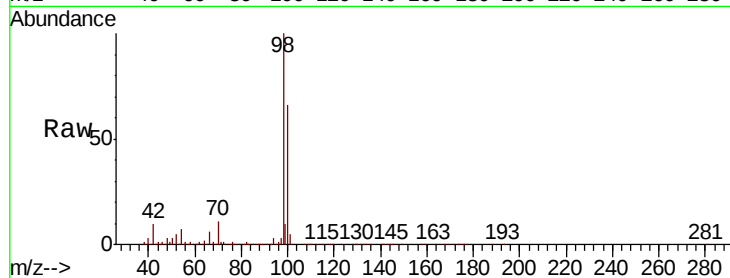
ClientSampleId :

Tot Ion: 98 Resp: 1253348

Ion Ratio Lower Upper

98 100

100 66.0 53.8 80.6



#58

2-Chloroethyl Vinyl ether

Concen: 3.525 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VW014586.D

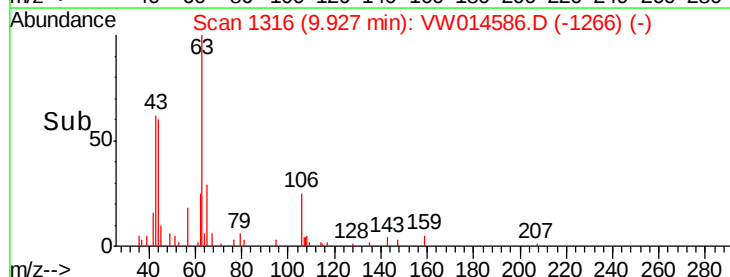
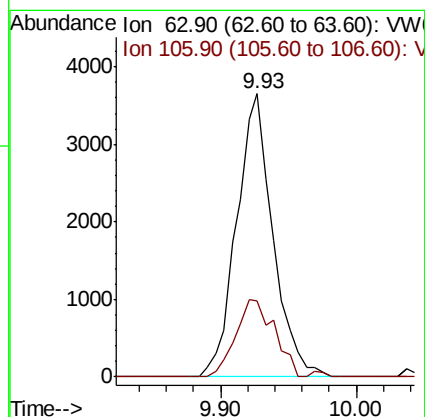
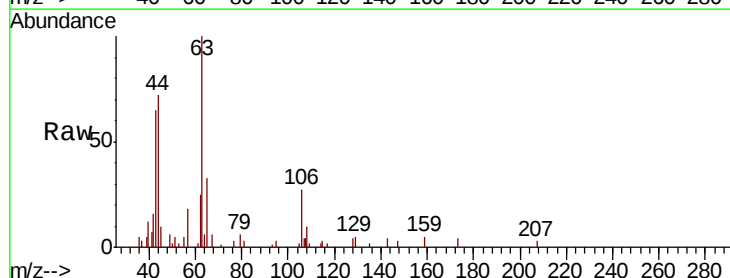
Acq: 09 Jan 2020 16:55

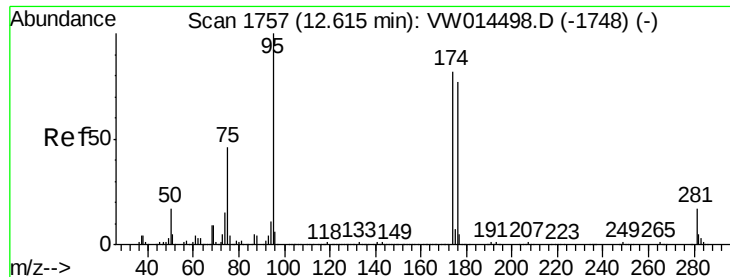
Tgt Ion: 63 Resp: 6792

Ion Ratio Lower Upper

63 100

106 29.3 23.0 34.6





#62

4-Bromofluorobenzene

Concen: 51.502 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Instrument :

MSVOA\_W

ClientSampleId :

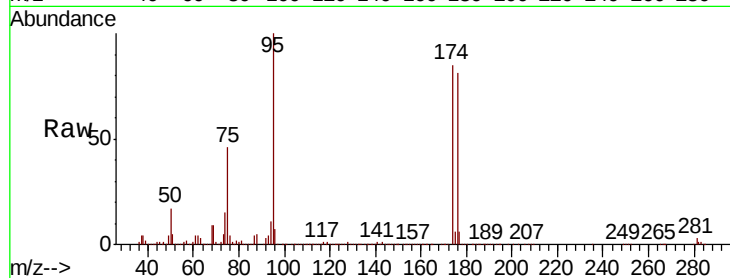
Tot Ion: 95 Resp: 420869

Ion Ratio Lower Upper

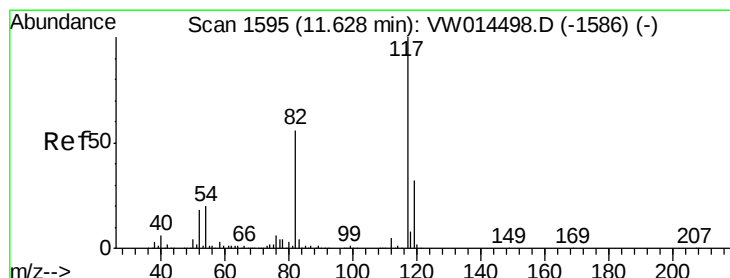
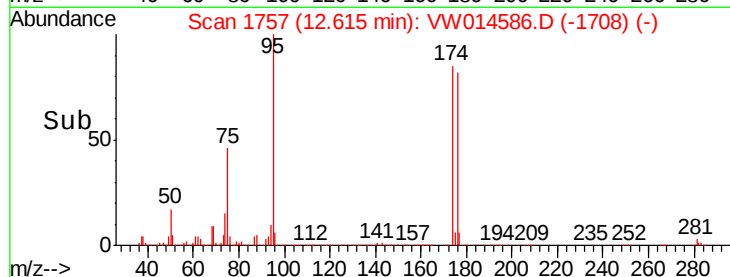
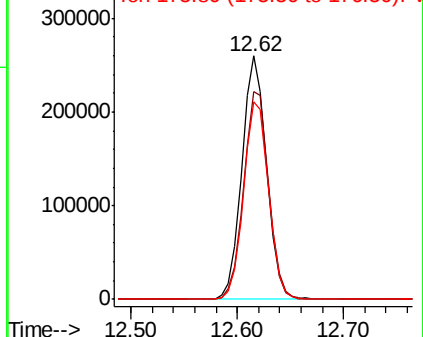
95 100

174 87.0 0.0 168.6

176 82.9 0.0 162.0



Abundance Ion 94.90 (94.60 to 95.60): VW  
Ion 173.80 (173.50 to 174.50): VW  
Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

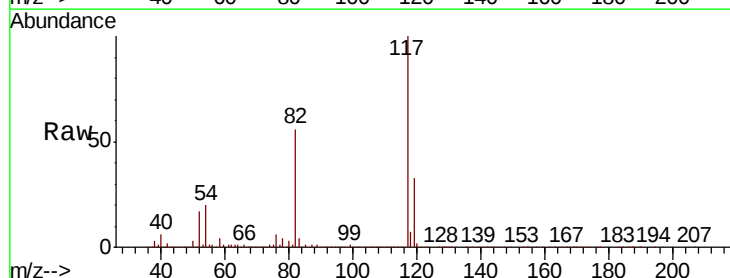
Tgt Ion: 117 Resp: 875632

Ion Ratio Lower Upper

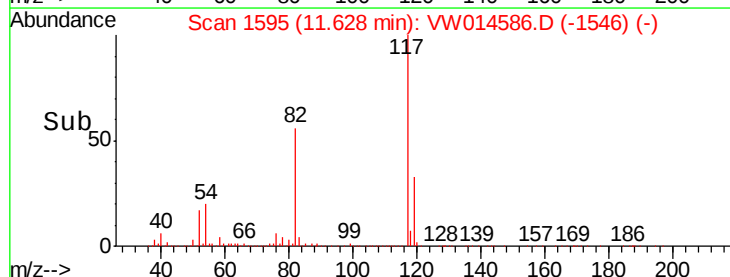
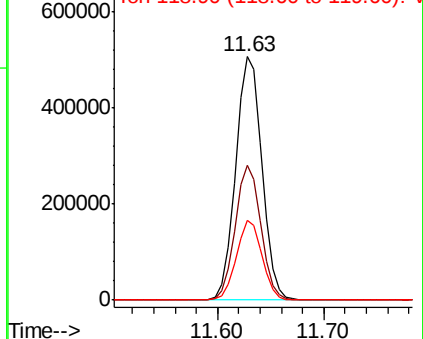
117 100

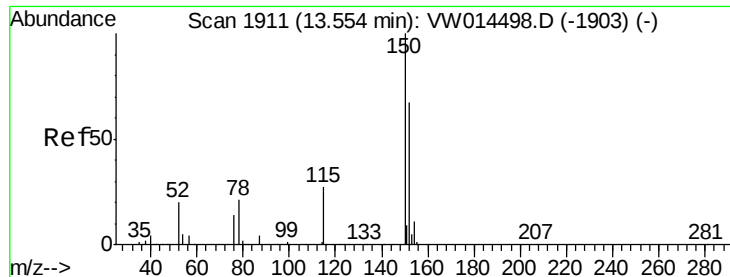
82 55.6 44.6 67.0

119 32.6 25.7 38.5



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Instrument :

MSVOA\_W

ClientSampleId :

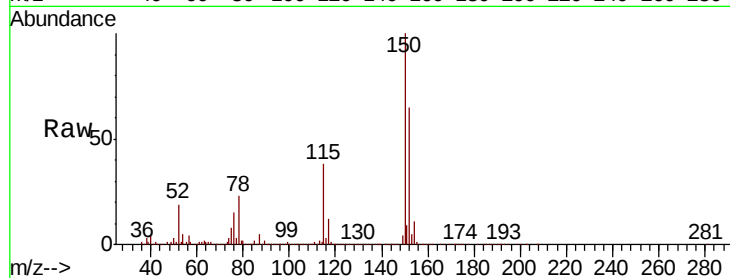
Tot Ion:152 Resp: 397242

Ion Ratio Lower Upper

152 100

115 56.5 27.7 83.1

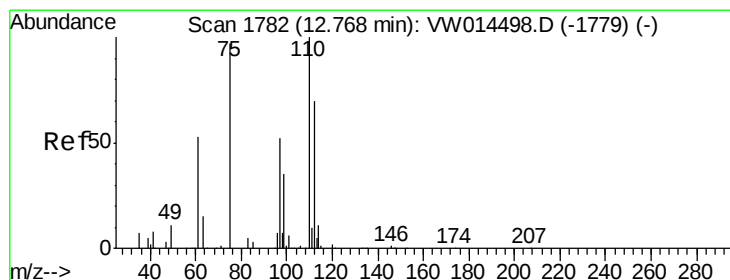
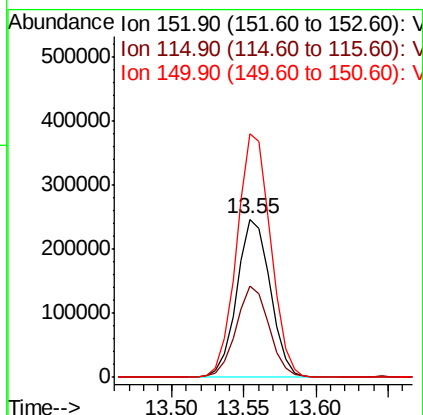
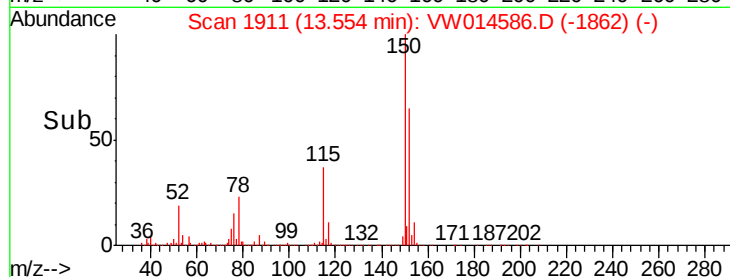
150 156.5 0.0 343.4



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: 52.637 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW014586.D

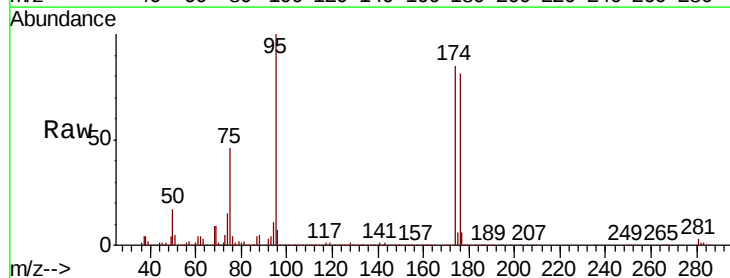
Acq: 09 Jan 2020 16:55

Tgt Ion: 75 Resp: 197697

Ion Ratio Lower Upper

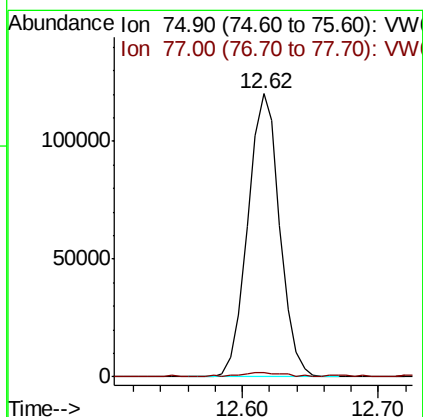
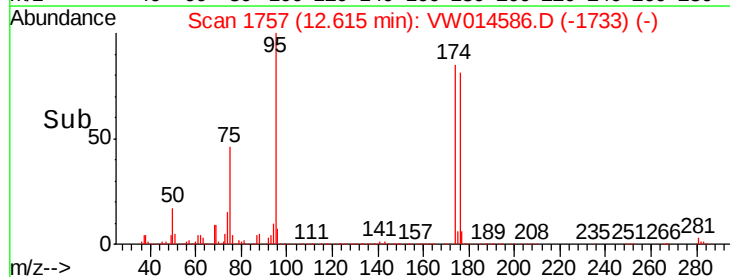
75 100

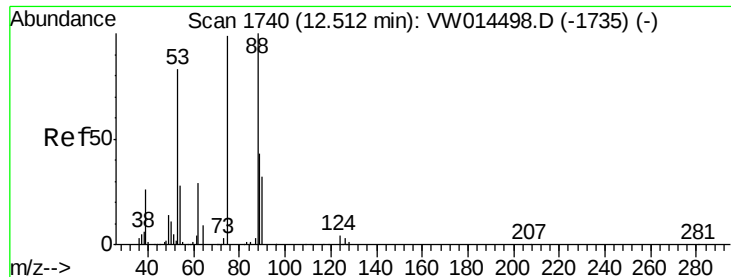
77 1.6 0.0 0.0#



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: 117.277 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Instrument :

MSVOA\_W

ClientSampleId :

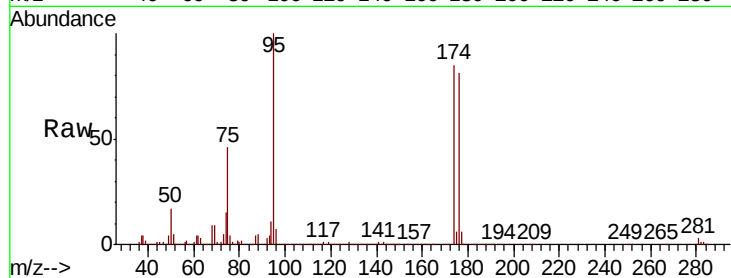
Tot Ion: 75 Resp: 197697

Ion Ratio Lower Upper

75 100

53 0.1 70.9 106.3#

89 0.1 35.8 53.8#



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

