

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010320\  
 Data File : VW014507.D  
 Acq On : 03 Jan 2020 19:05  
 Operator : SY/VA  
 Sample : L1011-03  
 Misc : 9.12G/5ML/MSVOA W/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jan 06 00:45:50 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

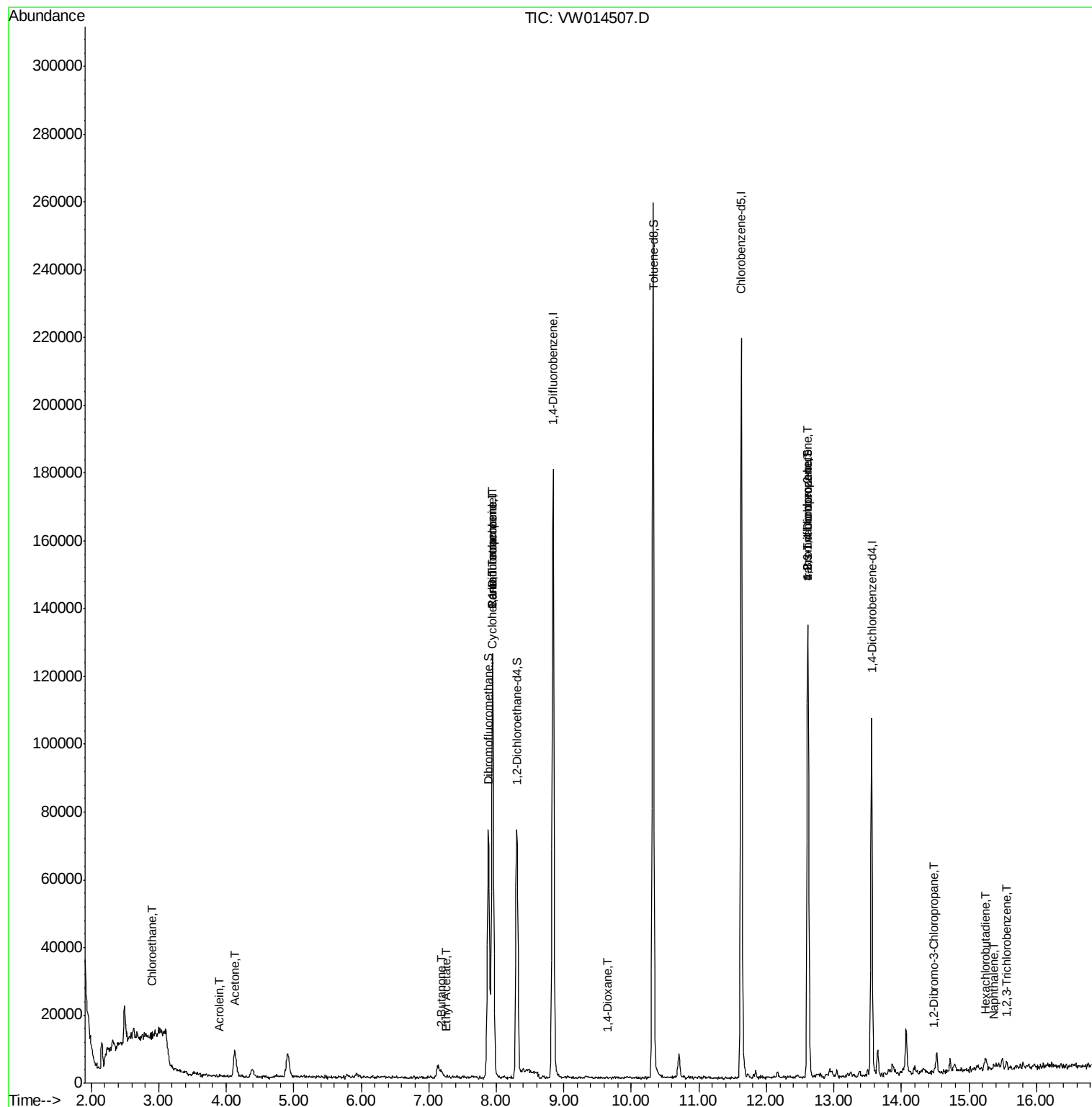
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.95  | 168  | 98802    | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.84  | 114  | 154674   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.63 | 117  | 130253   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.56 | 152  | 28967    | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.31  | 65   | 59368    | 68.73     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 137.46% |          |
| 35) Dibromofluoromethane       | 7.88  | 113  | 54813    | 62.01     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 124.02% |          |
| 50) Toluene-d8                 | 10.32 | 98   | 179686   | 48.71     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 97.42%  |          |
| 62) 4-Bromofluorobenzene       | 12.62 | 95   | 41785    | 33.39     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 66.78%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 6) Chloroethane                | 2.91  | 64   | 593      | 1.036     | ug/l    | 94       |
| 11) Tert butyl alcohol         | 5.16  | 59   | 216      | Below Cal | #       | 73       |
| 13) Acrolein                   | 3.89  | 56   | 151      | 2.003     | ug/l #  | 62       |
| 16) Acetone                    | 4.12  | 43   | 14852    | 60.889    | ug/l    | 100      |
| 25) 2-Butanone                 | 7.19  | 43   | 3402     | 10.868    | ug/l #  | 79       |
| 31) Cyclohexane                | 7.93  | 56   | 1875     | 1.017     | ug/l #  | 54       |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 6787     | 4.552     | ug/l #  | 50       |
| 37) Ethyl Acetate              | 7.25  | 43   | 816      | 1.207     | ug/l #  | 67       |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 8872     | 6.858     | ug/l #  | 19       |
| 49) 1,4-Dioxane                | 9.65  | 88   | 59       | 6.172     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 20304    | 74.135    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 20304    | 165.176   | ug/l #  | 14       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.47 | 75   | 117      | 1.926     | ug/l #  | 7        |
| 94) Hexachlorobutadiene        | 15.24 | 225  | 548      | 1.435     | ug/l    | 96       |
| 95) Naphthalene                | 15.36 | 128  | 1072     | 1.103     | ug/l #  | 82       |
| 96) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 663      | 1.335     | ug/l    | 90       |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010320\  
Data File : VW014507.D  
Acq On : 03 Jan 2020 19:05  
Operator : SY/VA  
Sample : L1011-03  
Misc : 9.12G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jan 06 00:45:50 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

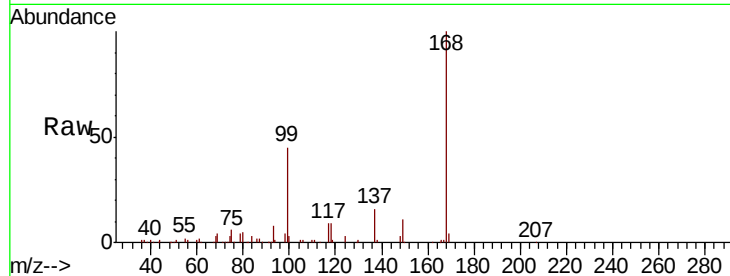
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 98802

Ion Ratio Lower Upper

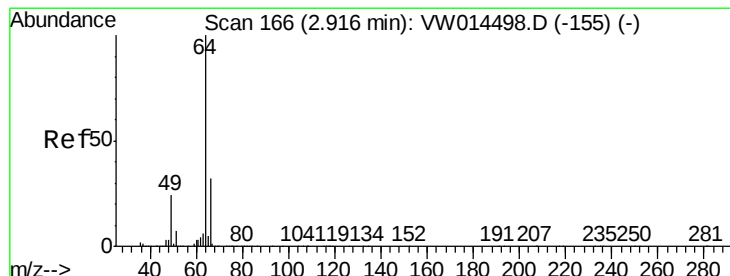
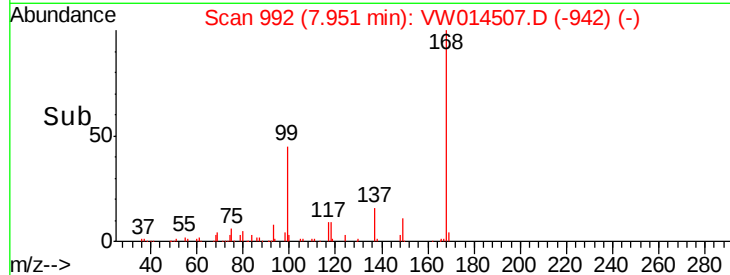
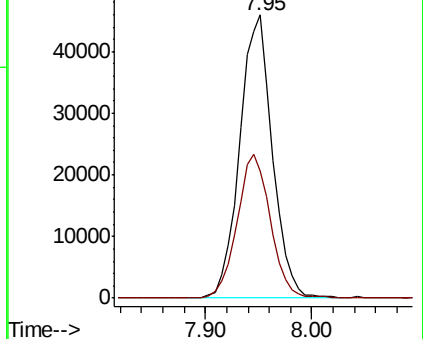
168 100

99 44.8 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#6

Chloroethane

Concen: 1.036 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW014507.D

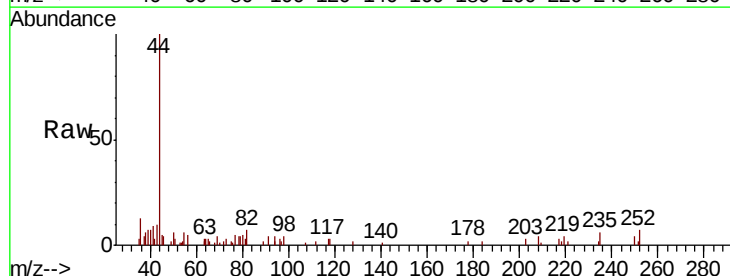
Acq: 03 Jan 2020 19:05

Tgt Ion: 64 Resp: 593

Ion Ratio Lower Upper

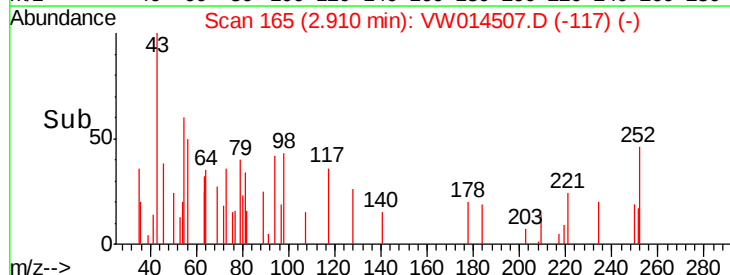
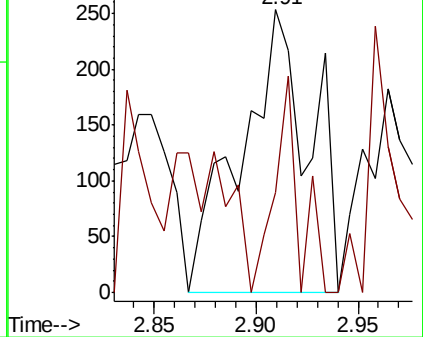
64 100

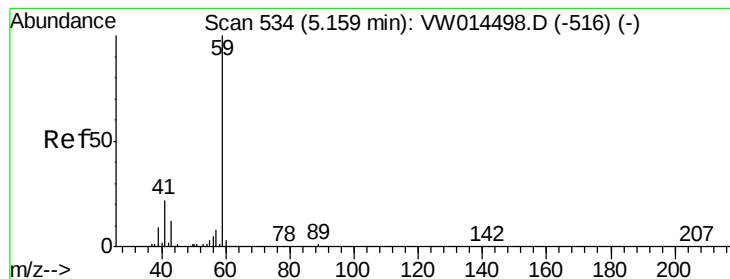
66 35.2 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW



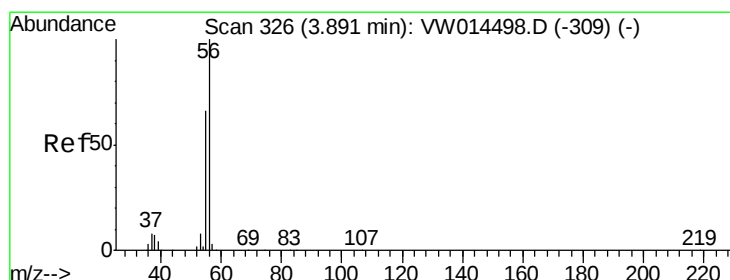
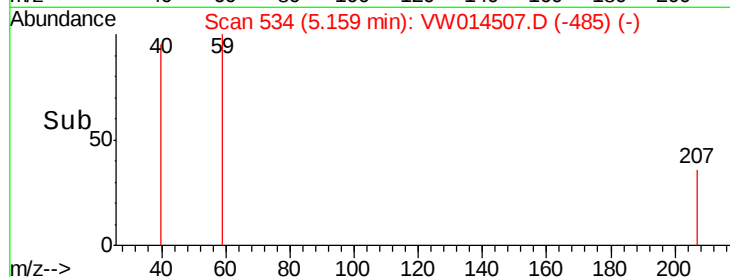
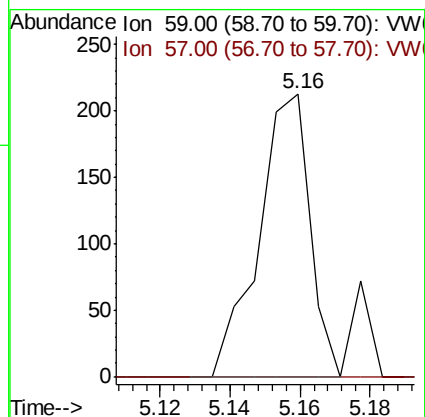
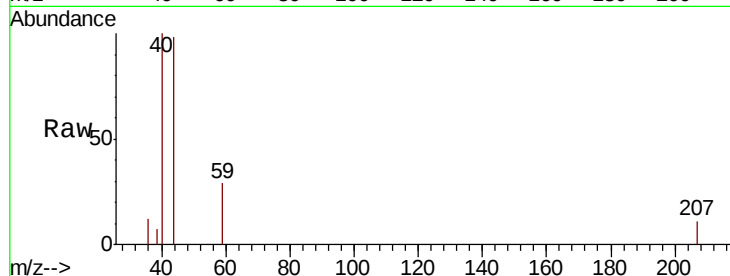


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.16 min Scan# 534  
 Delta R.T. 0.00 min  
 Lab File: VW014507.D  
 Acq: 03 Jan 2020 19:05

Instrument :  
 MSVOA\_W  
 ClientSampled :

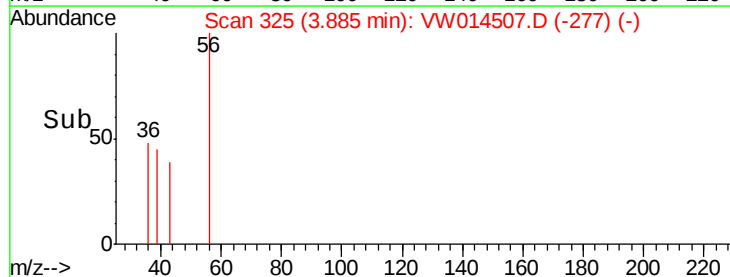
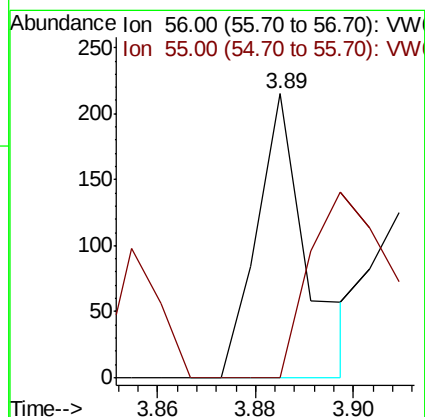
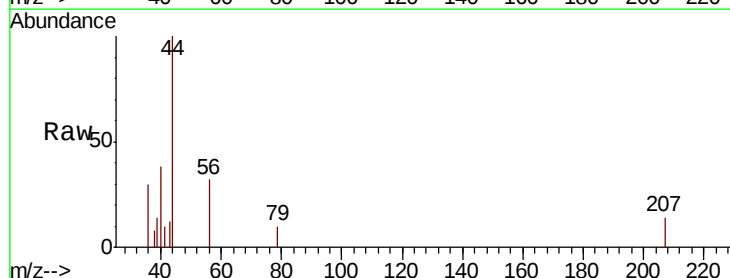
Tot Ion: 59 Resp: 216  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.8 11.8#

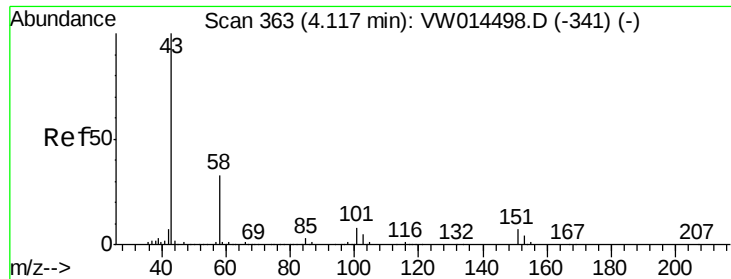


#13

Acrolein  
 Concen: 2.003 ug/l  
 RT: 3.89 min Scan# 325  
 Delta R.T. -0.01 min  
 Lab File: VW014507.D  
 Acq: 03 Jan 2020 19:05

Tgt Ion: 56 Resp: 151  
 Ion Ratio Lower Upper  
 56 100  
 55 102.6 56.7 85.1#





#16

Acetone

Concen: 60.889 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

Instrument :

MSVOA\_W

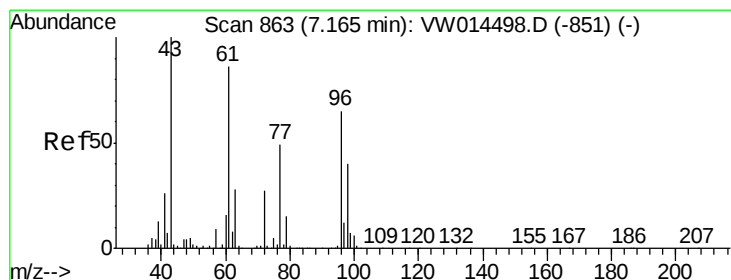
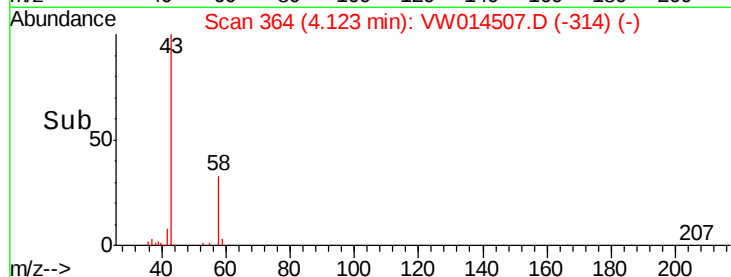
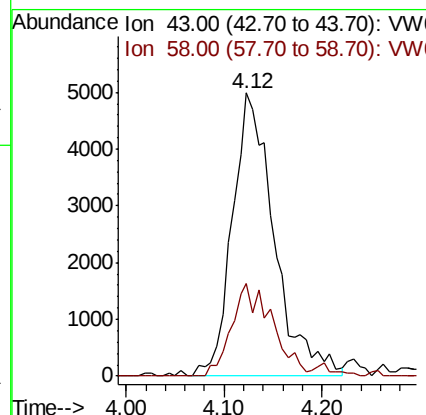
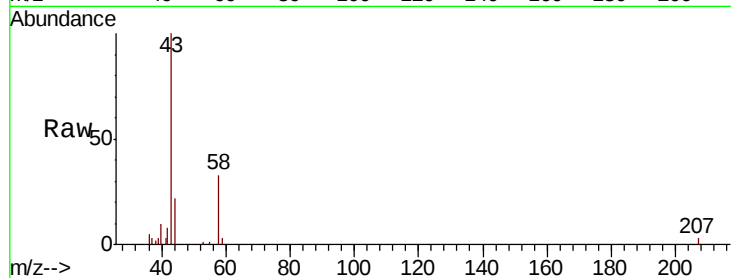
ClientSampled :

Tot Ion: 43 Resp: 14852

Ion Ratio Lower Upper

43 100

58 32.9 26.6 39.8



#25

2-Butanone

Concen: 10.868 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.02 min

Lab File: VW014507.D

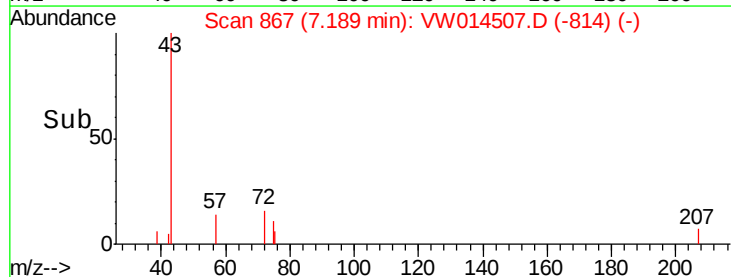
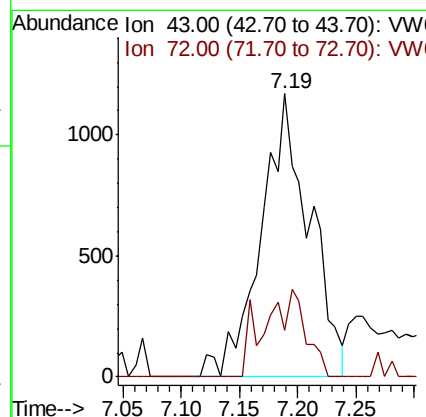
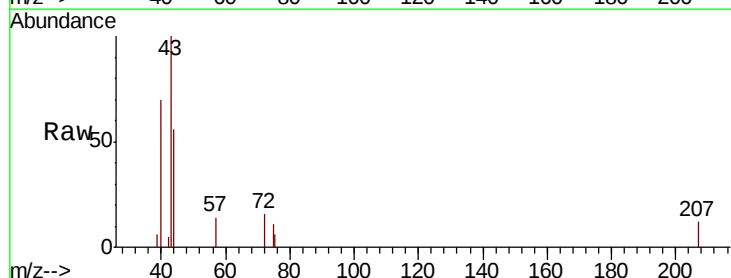
Acq: 03 Jan 2020 19:05

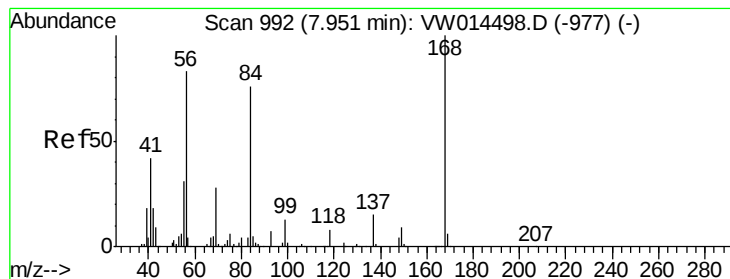
Tgt Ion: 43 Resp: 3402

Ion Ratio Lower Upper

43 100

72 16.5 21.9 32.9#





#31

Cyclohexane

Concen: 1.017 ug/l

RT: 7.93 min Scan# 989

Delta R.T. -0.02 min

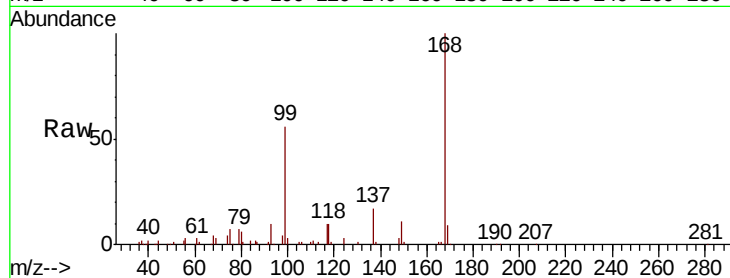
Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

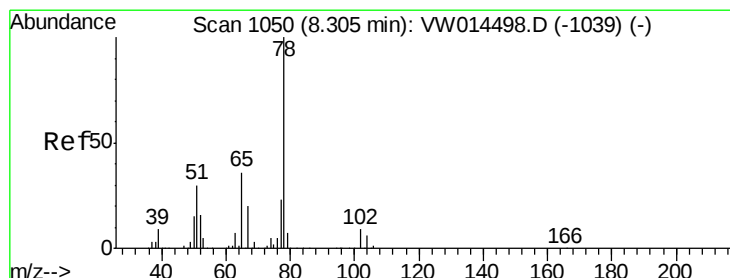
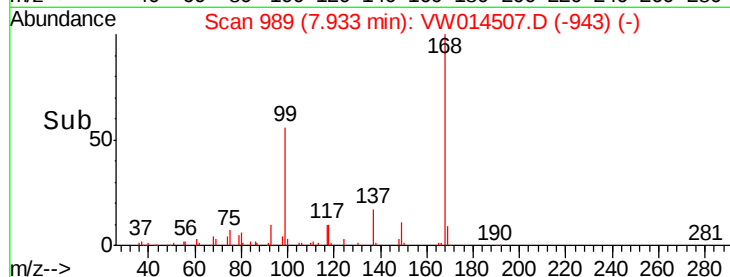
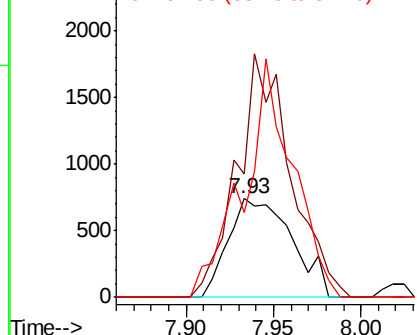
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 56 Resp: 1875

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 125.5 | 26.8  | 40.2# |
| 84  | 86.9  | 71.8  | 107.6 |



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 68.726 ug/l

RT: 8.31 min Scan# 1050

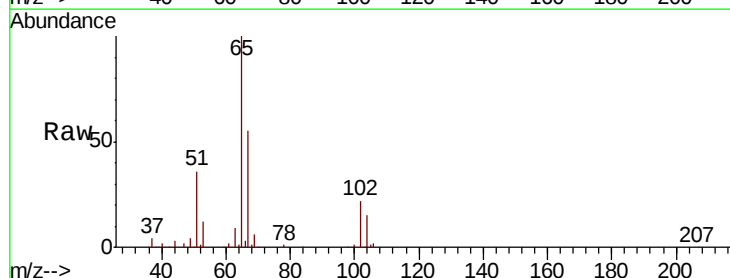
Delta R.T. -0.00 min

Lab File: VW014507.D

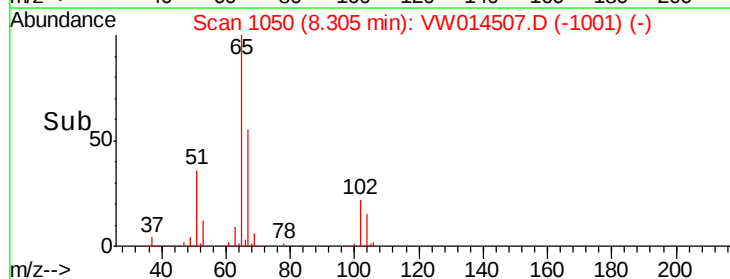
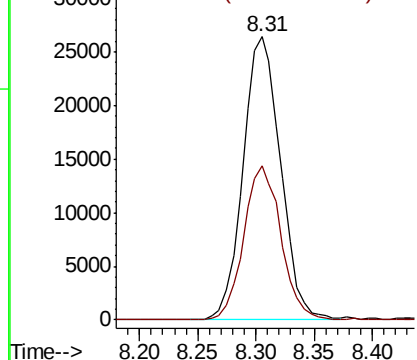
Acq: 03 Jan 2020 19:05

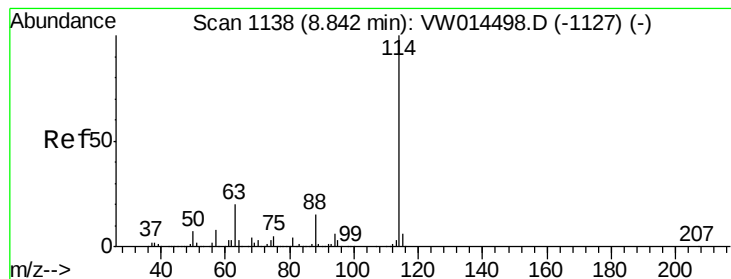
Tgt Ion: 65 Resp: 59368

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 54.0  | 0.0   | 108.4 |



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

Instrument :

MSVOA\_W

ClientSampleId :

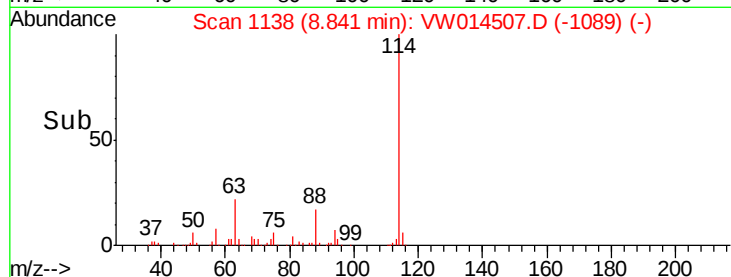
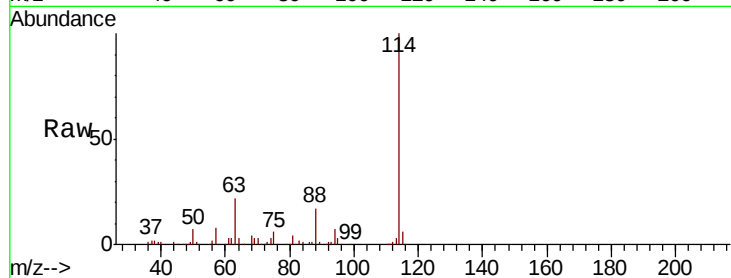
Tot Ion:114 Resp: 154674

Ion Ratio Lower Upper

114 100

63 22.1 0.0 40.4

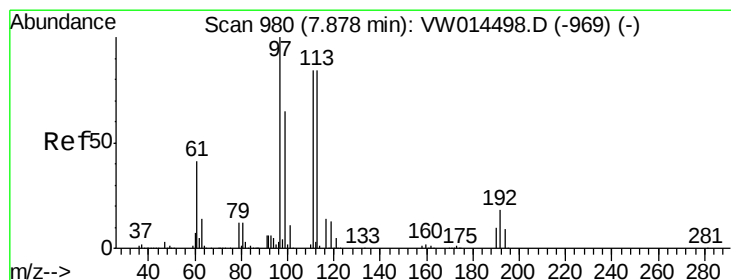
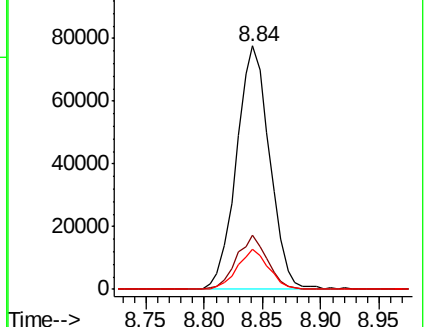
88 16.7 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 62.006 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

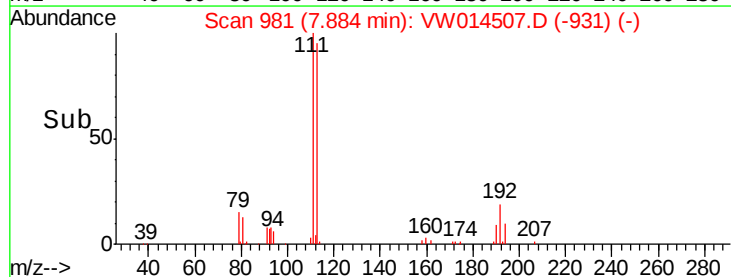
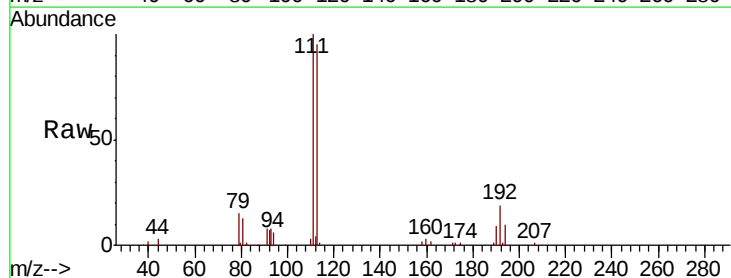
Tgt Ion:113 Resp: 54813

Ion Ratio Lower Upper

113 100

111 102.9 81.4 122.2

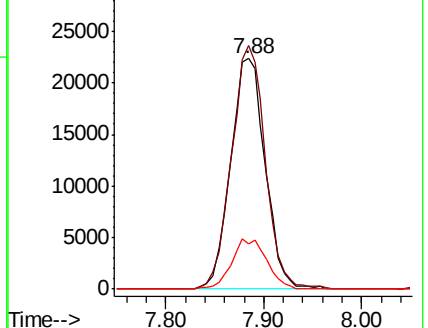
192 22.4 17.8 26.8

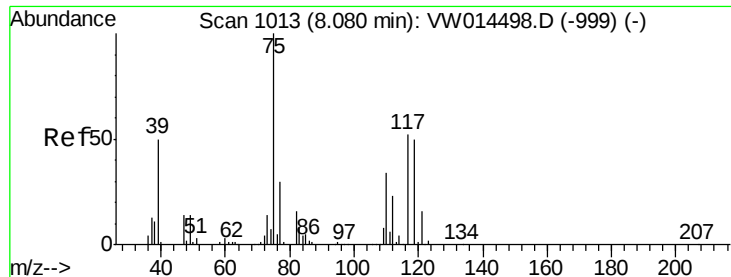


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

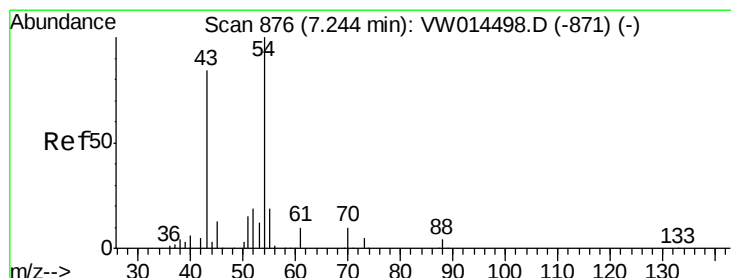
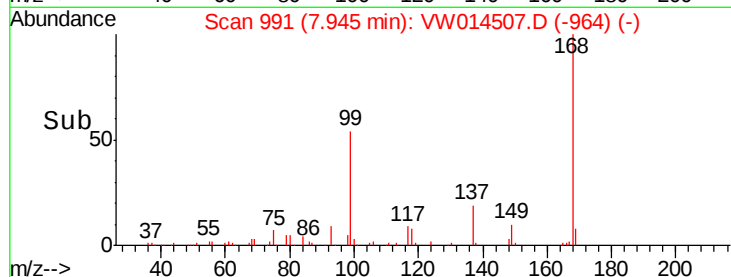
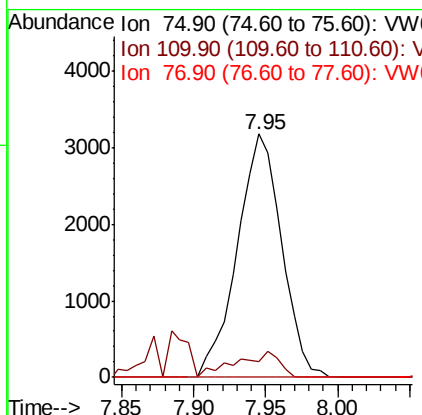
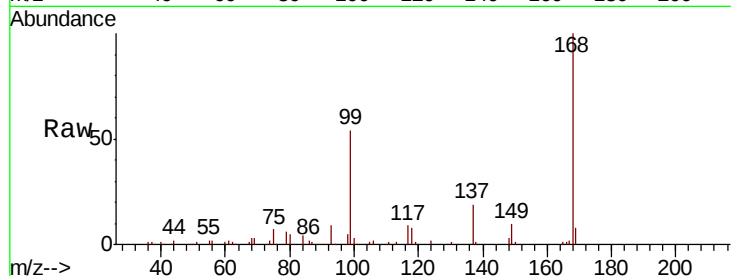




#36  
 1,1-Dichloropropene  
 Concen: 4.552 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW014507.D  
 Acq: 03 Jan 2020 19:05

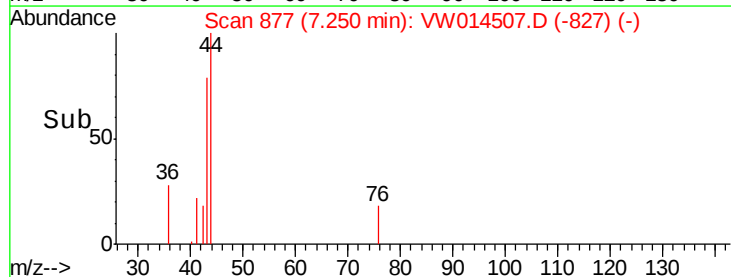
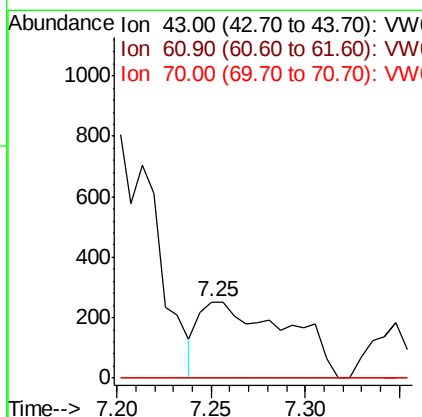
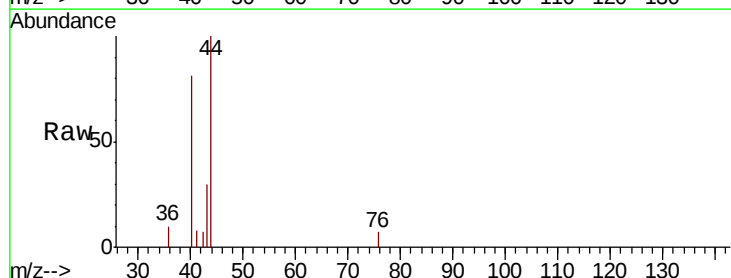
Instrument :  
 MSVOA\_W  
 ClientSampleId :

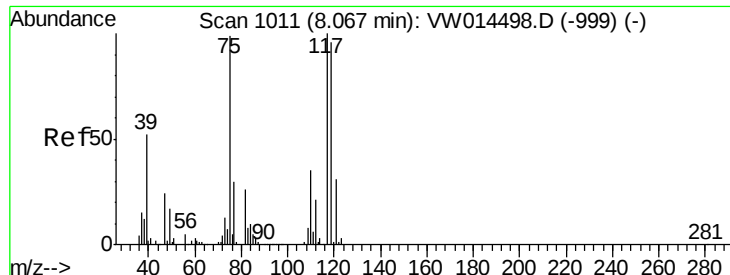
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.2   | 17.8  | 53.5# |
| 77      | 0.0   | 24.7  | 37.1# |



#37  
 Ethyl Acetate  
 Concen: 1.207 ug/l  
 RT: 7.25 min Scan# 877  
 Delta R.T. 0.01 min  
 Lab File: VW014507.D  
 Acq: 03 Jan 2020 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 11.7  | 17.5# |
| 70      | 0.0   | 9.0   | 13.6# |





#38

Carbon Tetrachloride

Concen: 6.858 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

Instrument :

MSVOA\_W

ClientSampled :

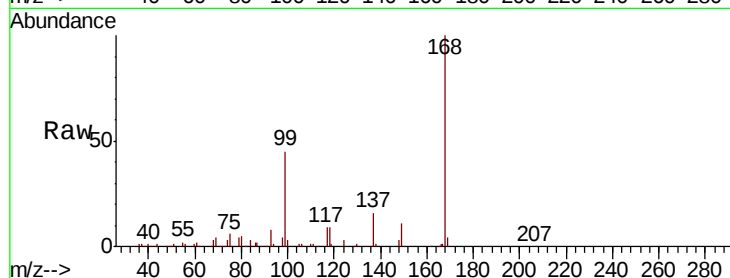
Tot Ion:117 Resp: 8872

Ion Ratio Lower Upper

117 100

119 8.8 77.0 115.6#

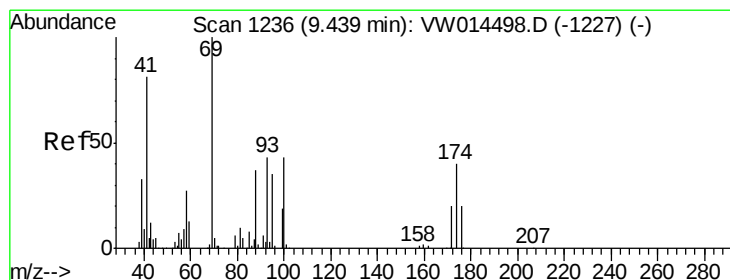
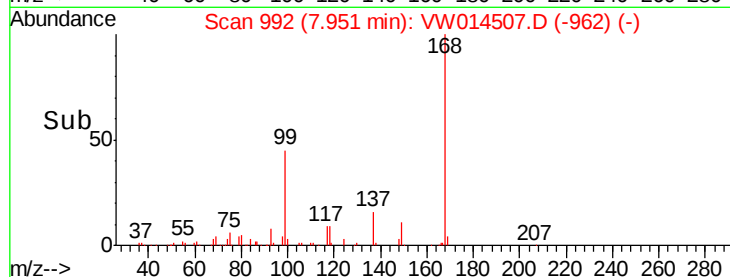
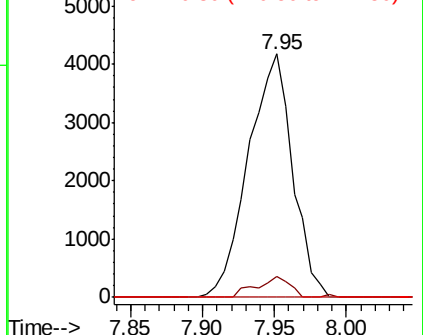
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 6.172 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.21 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

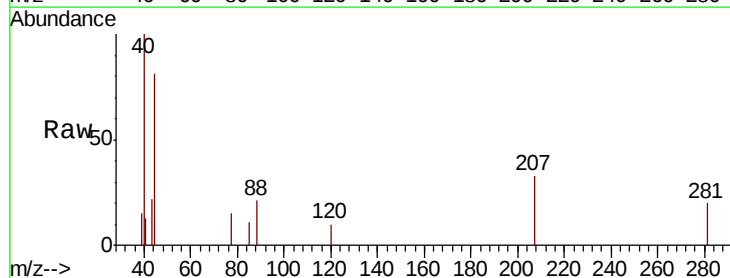
Tgt Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 223.7 24.9 37.3#

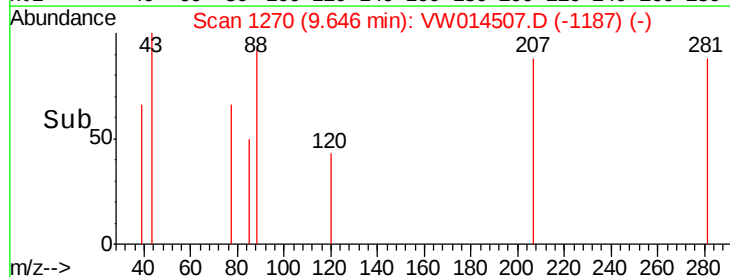
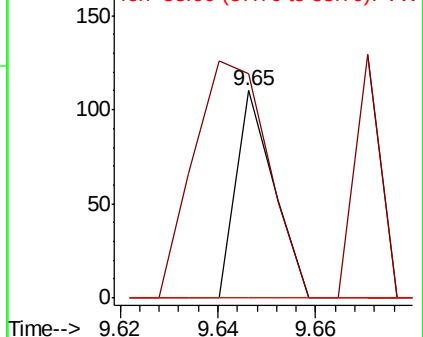
58 0.0 56.9 85.3#

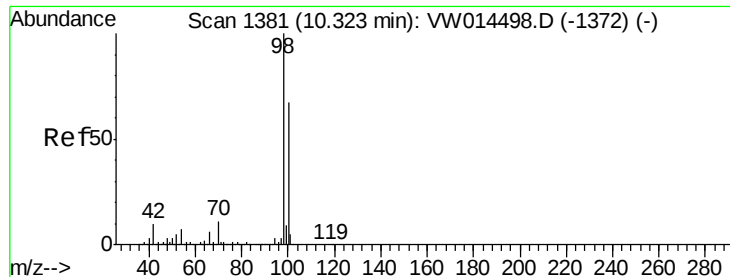


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 48.707 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

Instrument :

MSVOA\_W

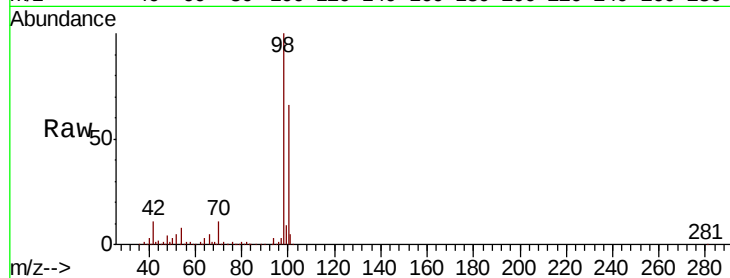
ClientSampled :

Tot Ion: 98 Resp: 179686

Ion Ratio Lower Upper

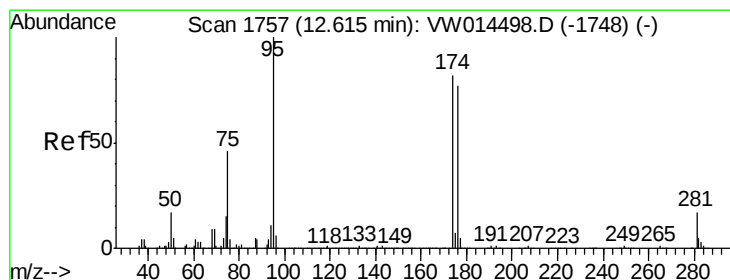
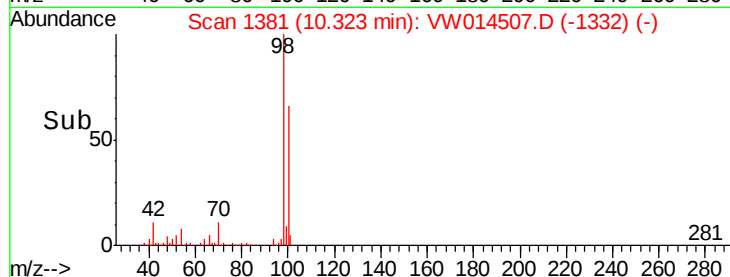
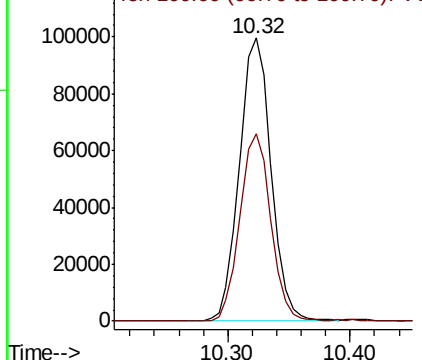
98 100

100 64.6 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 33.393 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

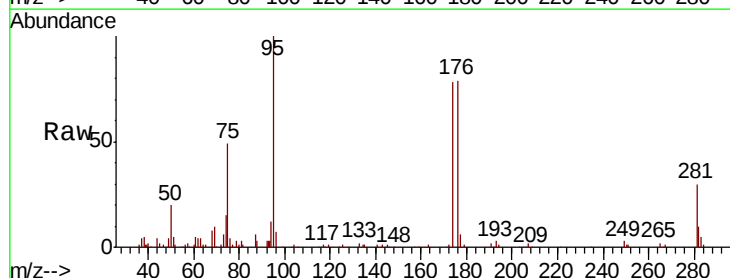
Tgt Ion: 95 Resp: 41785

Ion Ratio Lower Upper

95 100

174 87.5 0.0 168.6

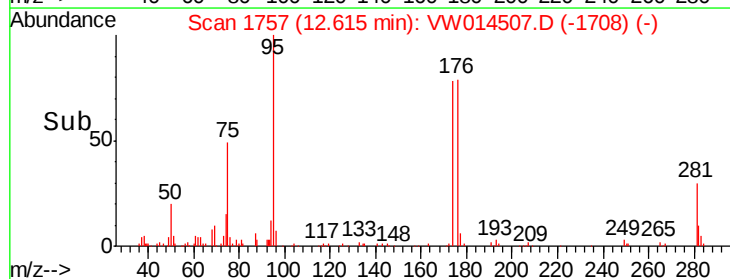
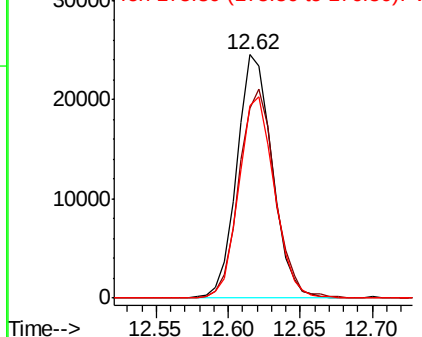
176 83.1 0.0 162.0

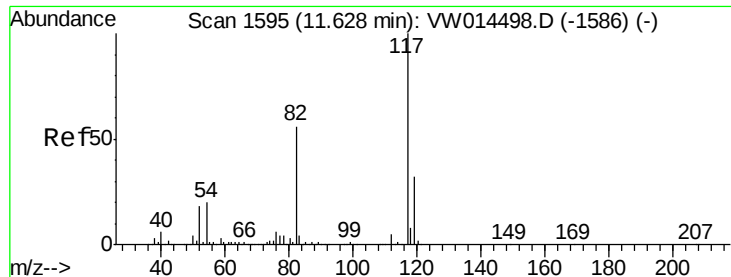


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

Instrument :

MSVOA\_W

ClientSampleId :

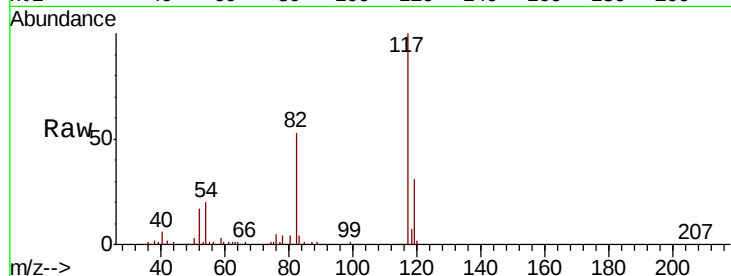
Tot Ion:117 Resp: 130253

Ion Ratio Lower Upper

117 100

82 53.0 44.6 67.0

119 31.0 25.7 38.5

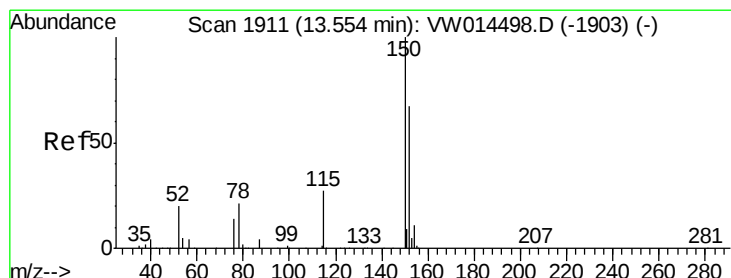
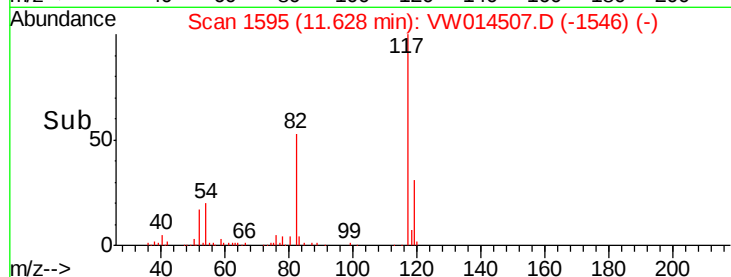
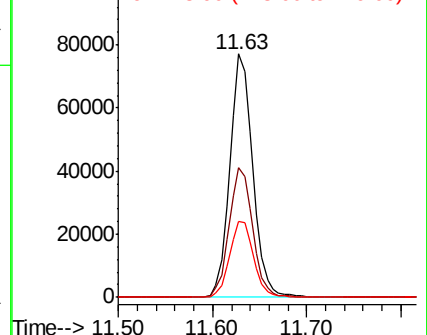


Abundance

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: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

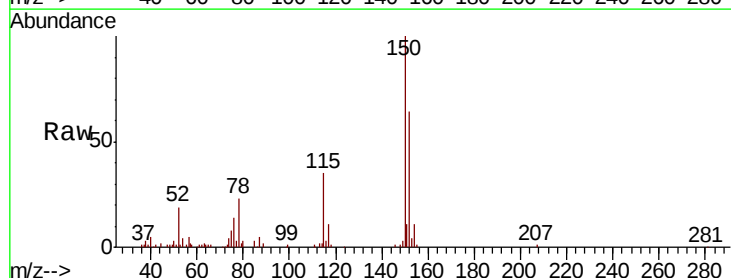
Tgt Ion:152 Resp: 28967

Ion Ratio Lower Upper

152 100

115 60.8 27.7 83.1

150 162.1 0.0 343.4

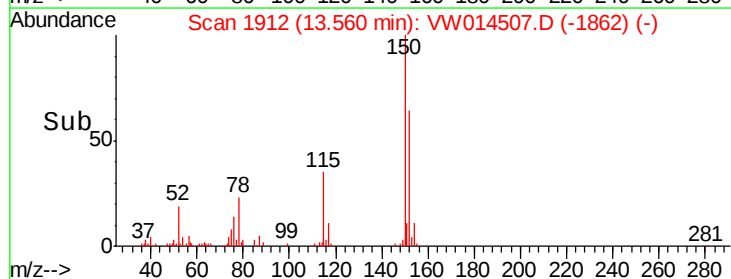
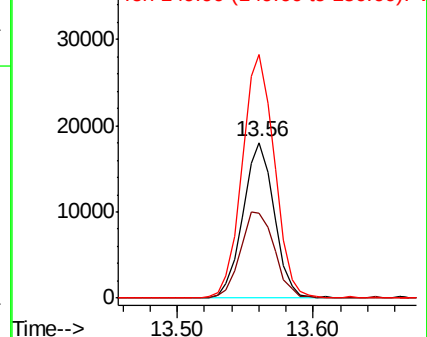


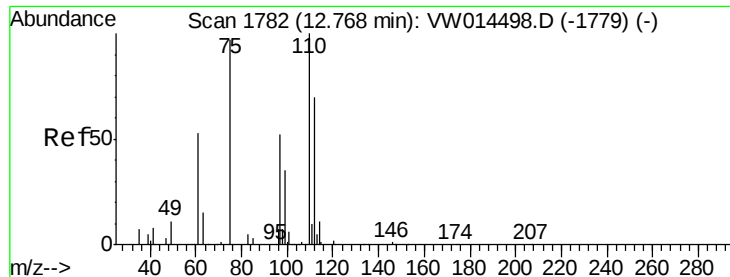
Abundance

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



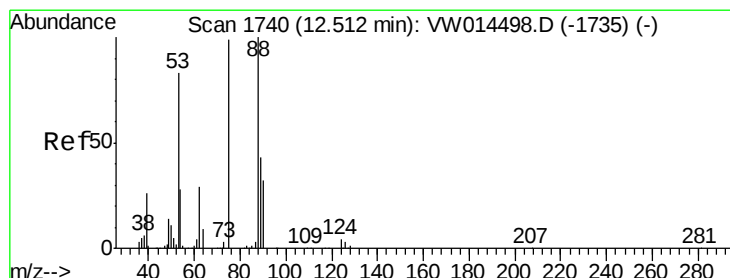
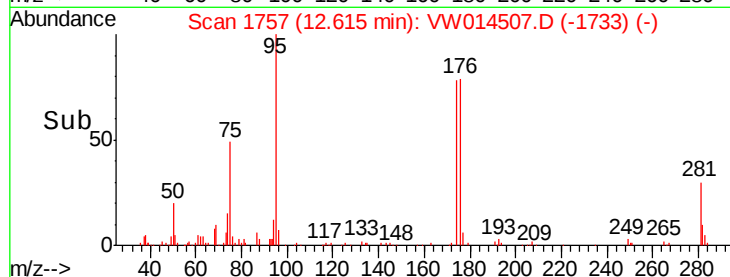
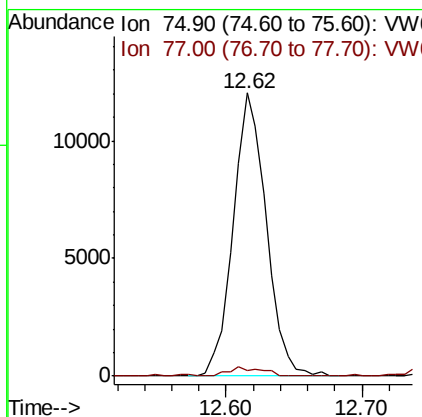
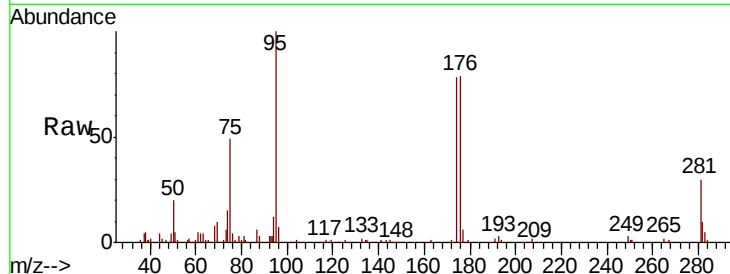


#76

1,2,3-Trichloropropane  
Concen: 74.135 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.15 min  
Lab File: VW014507.D  
Acq: 03 Jan 2020 19:05

Instrument :  
MSVOA\_W  
ClientSampled :

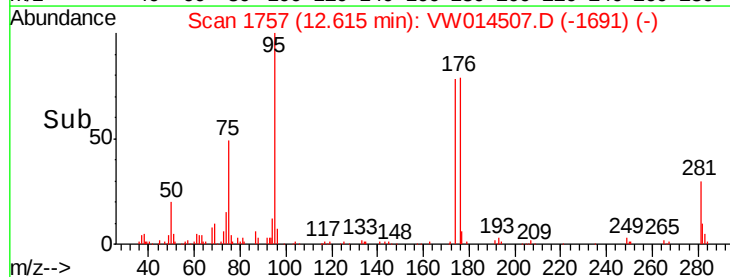
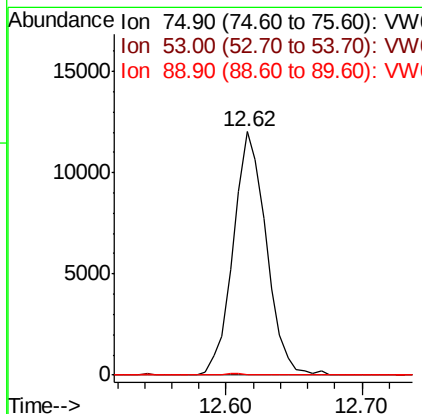
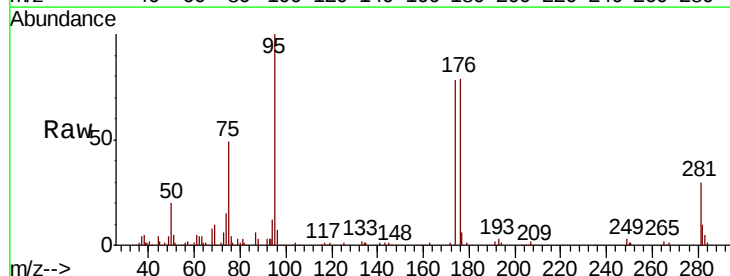
Tot Ion: 75 Resp: 20304  
Ion Ratio Lower Upper  
75 100  
77 3.1 0.0 0.0#

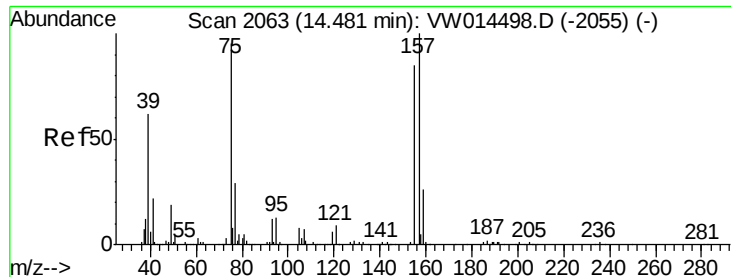


#81

trans-1,4-Dichloro-2-butene  
Concen: 165.176 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.10 min  
Lab File: VW014507.D  
Acq: 03 Jan 2020 19:05

Tgt Ion: 75 Resp: 20304  
Ion Ratio Lower Upper  
75 100  
53 0.0 70.9 106.3#  
89 0.2 35.8 53.8#

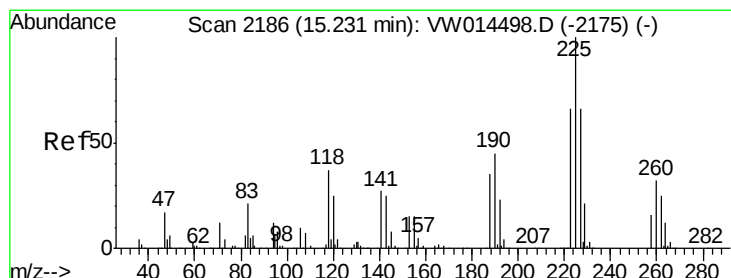
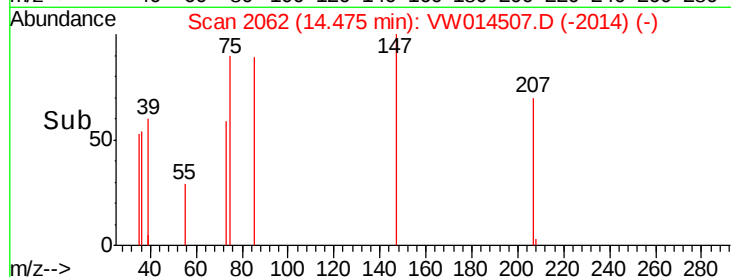
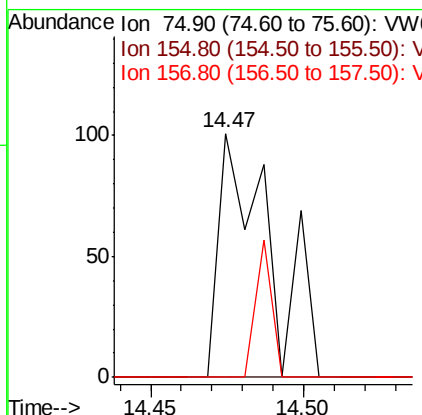
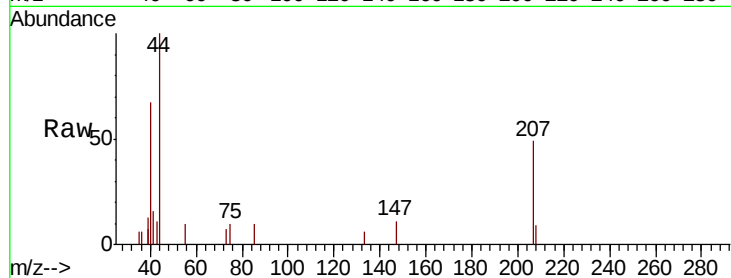




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.926 ug/l  
 RT: 14.47 min Scan# 2062  
 Delta R.T. -0.01 min  
 Lab File: VW014507.D  
 Acq: 03 Jan 2020 19:05

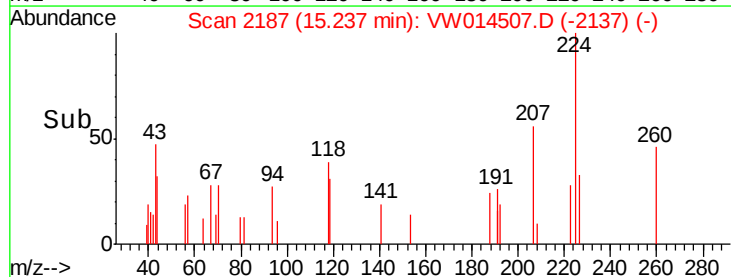
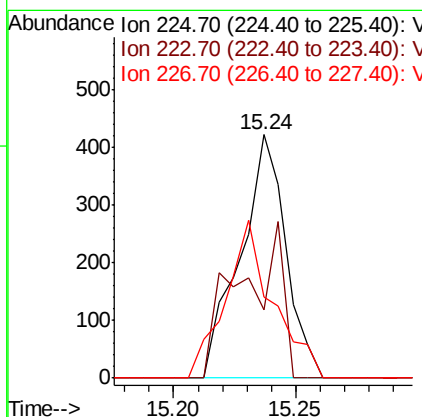
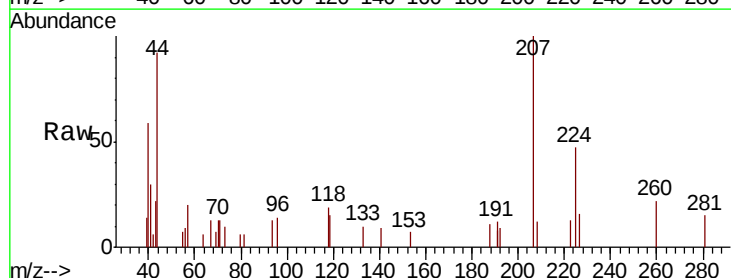
Instrument :  
 MSVOA\_W  
 ClientSampleId :

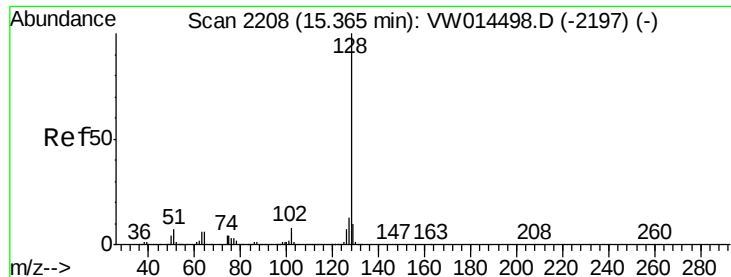
Tot Ion: 75 Resp: 117  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 45.8 137.4#  
 157 17.9 58.1 174.2#



#94  
 Hexachlorobutadiene  
 Concen: 1.435 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. 0.01 min  
 Lab File: VW014507.D  
 Acq: 03 Jan 2020 19:05

Tgt Ion: 225 Resp: 548  
 Ion Ratio Lower Upper  
 225 100  
 223 60.4 32.4 97.2  
 227 66.8 32.6 97.8





#95

Naphthalene

Concen: 1.103 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

Instrument :

MSVOA\_W

ClientSampleId :

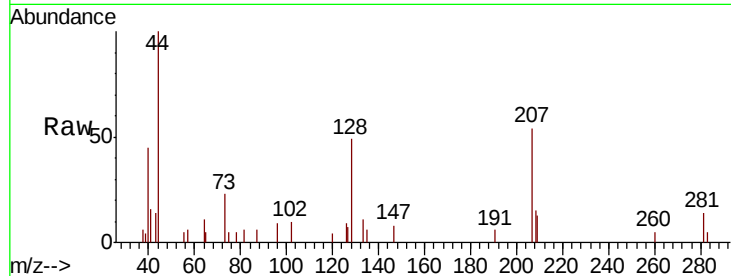
Tot Ion:128 Resp: 1072

Ion Ratio Lower Upper

128 100

127 2.7 10.6 15.8#

129 8.1 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

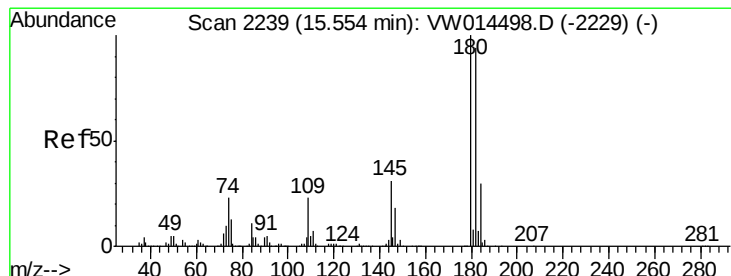
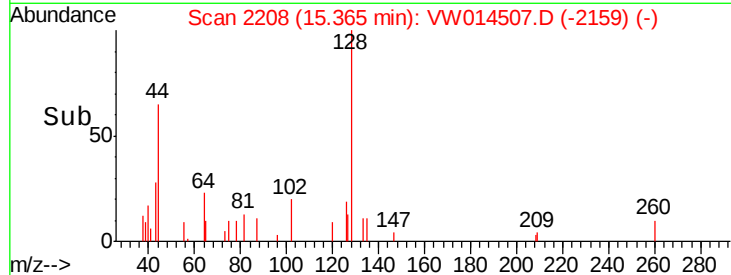
15.36

400

200

0

Time--> 15.30 15.35 15.40



#96

1,2,3-Trichlorobenzene

Concen: 1.335 ug/l

RT: 15.55 min Scan# 2238

Delta R.T. -0.01 min

Lab File: VW014507.D

Acq: 03 Jan 2020 19:05

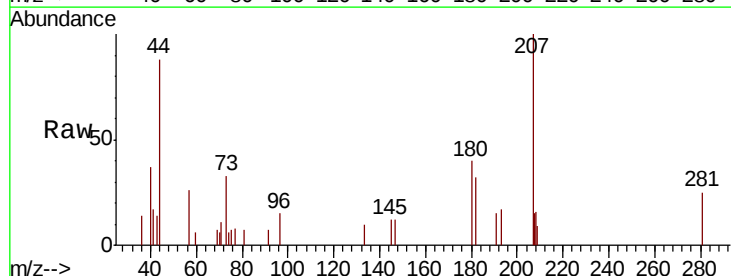
Tgt Ion:180 Resp: 663

Ion Ratio Lower Upper

180 100

182 86.1 47.4 142.2

145 23.1 15.5 46.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.55

400

200

0

Time--> 15.50 15.55 15.60

