

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091519\  
 Data File : VW012991.D  
 Acq On : 14 Sep 2019 14:12  
 Operator : SY/VA  
 Sample : K4719-12RE  
 Misc : 8.01G/5ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 16 06:52:32 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  | 284177   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 423583   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 343918   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 126455   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 154418   | 58.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.68% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 127176   | 55.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.66% |          |
| 50) Toluene-d8              | 10.32 | 98   | 469909   | 52.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.50% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 147908   | 45.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.46%  |          |

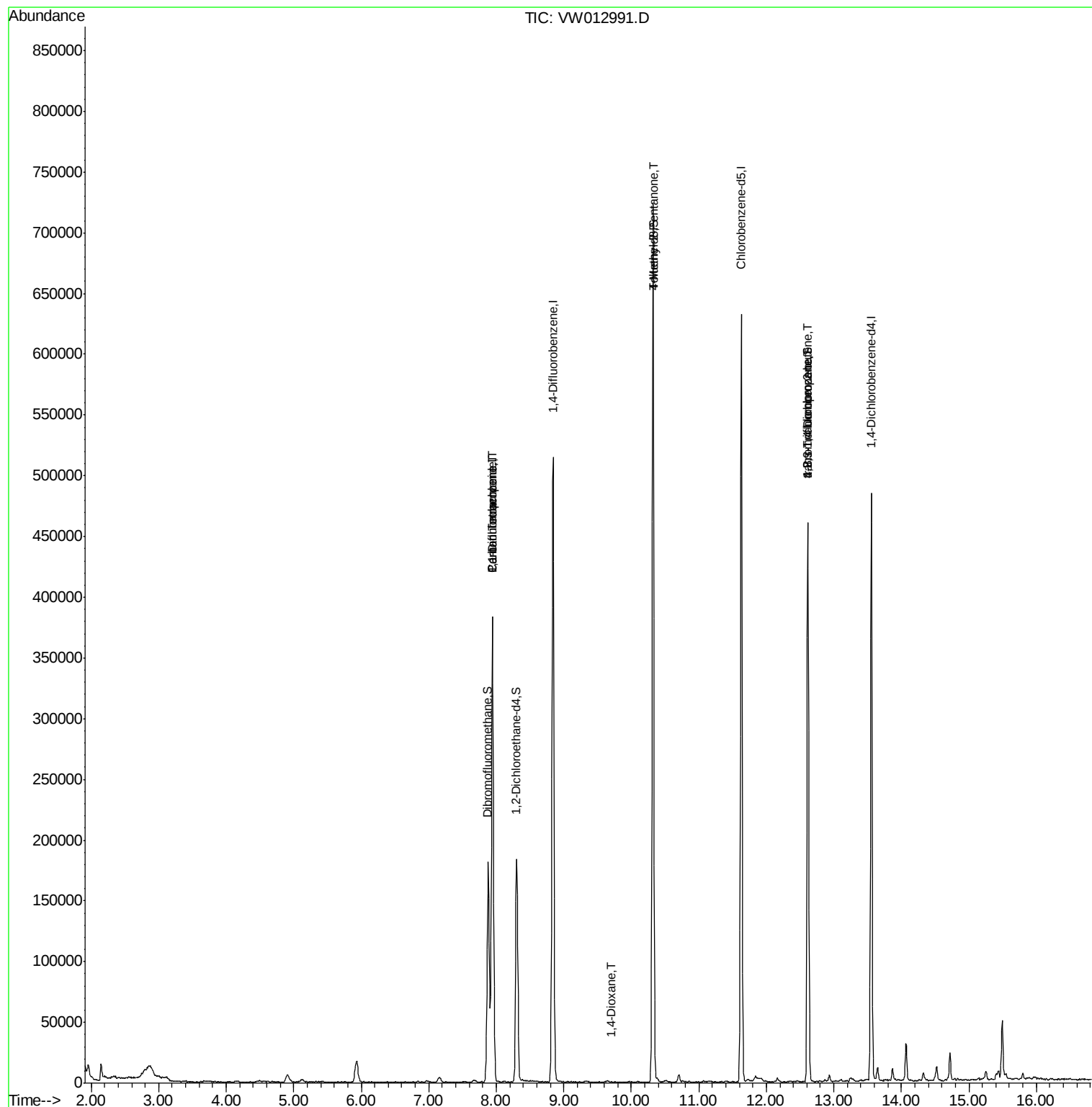
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.07  | 85   | 21       | Below Cal | #      | 44     |
| 3) Chloromethane               | 2.21  | 50   | 262      | Below Cal | #      | 41     |
| 11) Tert butyl alcohol         | 5.11  | 59   | 2005     | Below Cal | #      | 74     |
| 13) Acrolein                   | 3.91  | 56   | 48       | Below Cal | #      | 12     |
| 16) Acetone                    | 4.09  | 43   | 45       | Below Cal | #      | 47     |
| 20) Methylene Chloride         | 4.92  | 84   | 4219     | Below Cal |        | 96     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 362      | Below Cal | #      | 55     |
| 31) Cyclohexane                | 7.95  | 56   | 6422     | Below Cal | #      | 8      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 20600    | 6.086     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 27339    | 7.882     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.69  | 88   | 26       | 1.290     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 10.32 | 43   | 2723     | 1.529     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 76292    | 68.878    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 76292    | 156.248   | ug/l # | 7      |

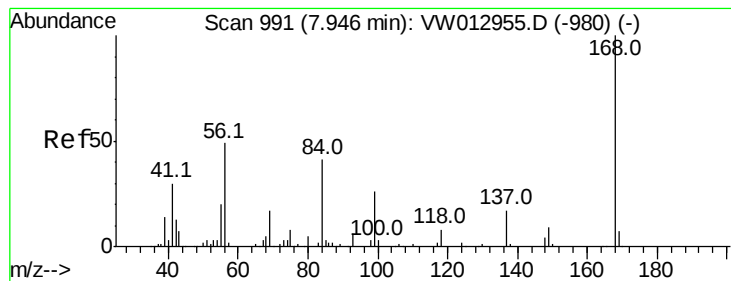
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091519\  
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MSVOA\_W  
ClientSampleId :

Quant Time: Sep 16 06:52:32 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
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: VW012991.D

Acq: 14 Sep 2019 14:12

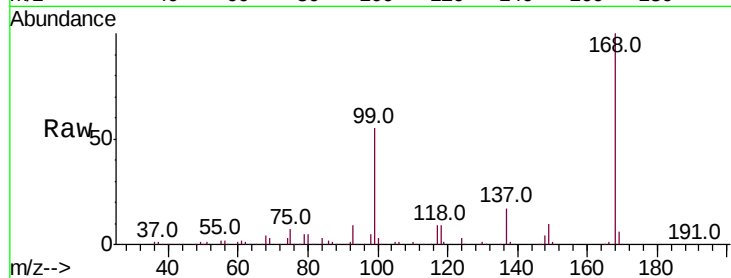
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 284177

Ion Ratio Lower Upper

168 100

99 54.6 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

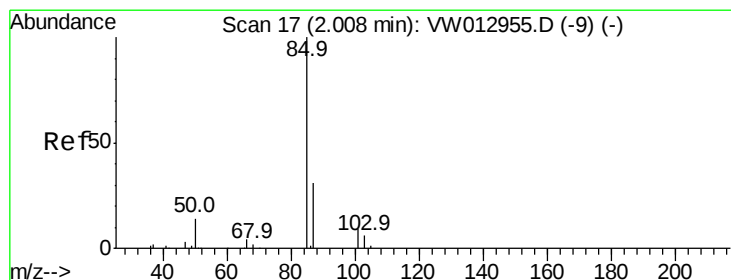
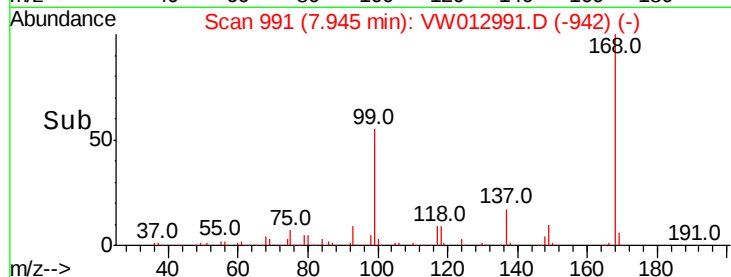
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.07 min Scan# 27

Delta R.T. 0.06 min

Lab File: VW012991.D

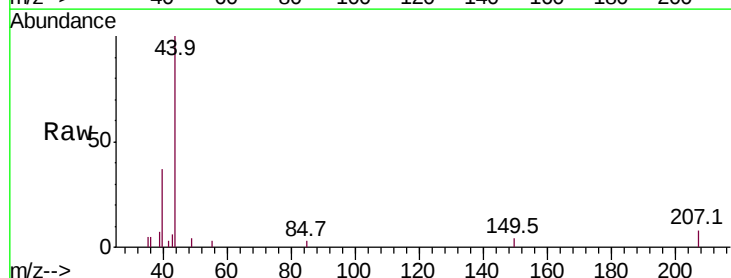
Acq: 14 Sep 2019 14:12

Tgt Ion: 85 Resp: 21

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

2.07

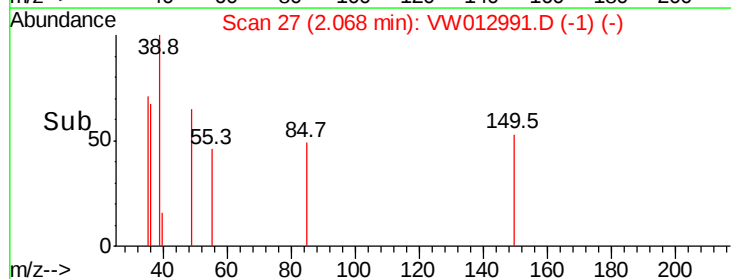
60

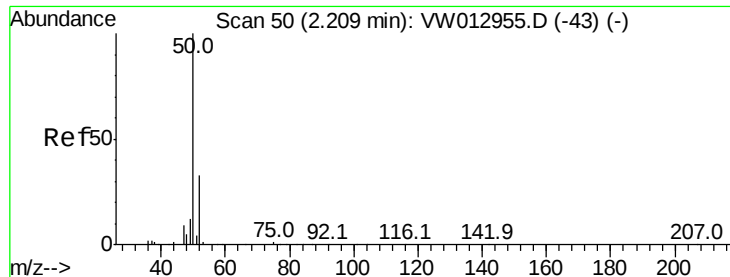
40

20

0

Time--> 2.05 2.06 2.07 2.08





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW012991.D

Acq: 14 Sep 2019 14:12

Instrument :

MSVOA\_W

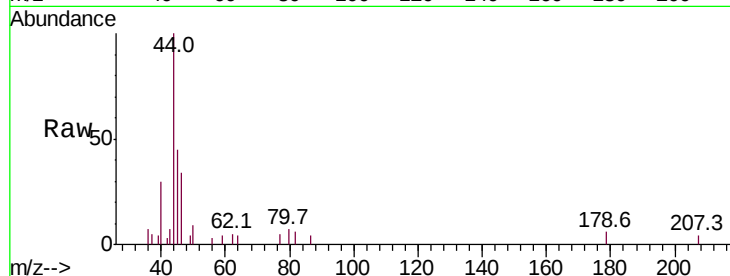
ClientSampleId :

Tot Ion: 50 Resp: 262

Ion Ratio Lower Upper

50 100

52 0.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

150

100

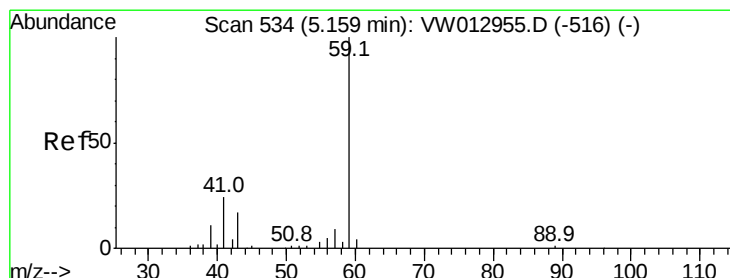
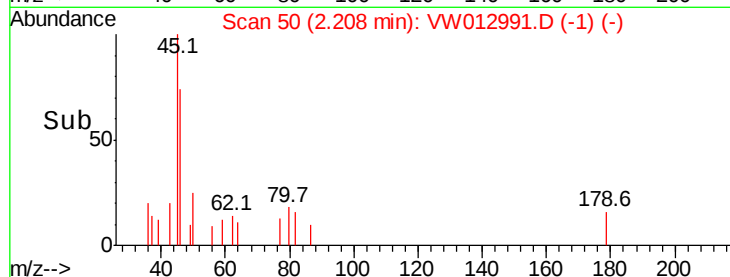
50

0

2.20

2.25

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.11 min Scan# 526

Delta R.T. -0.05 min

Lab File: VW012991.D

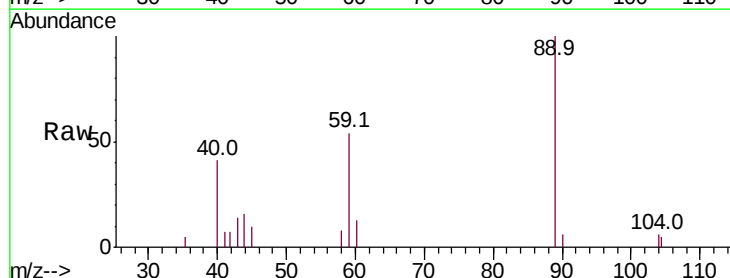
Acq: 14 Sep 2019 14:12

Tgt Ion: 59 Resp: 2005

Ion Ratio Lower Upper

59 100

57 0.9 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.11

600

500

400

300

200

100

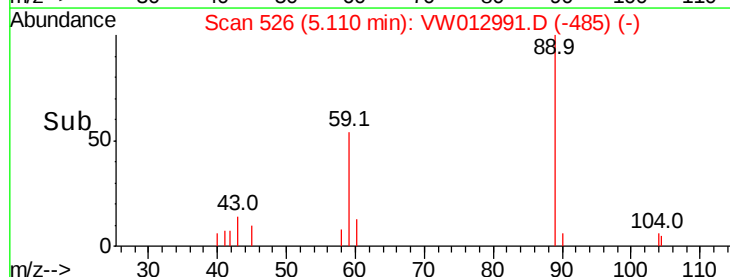
0

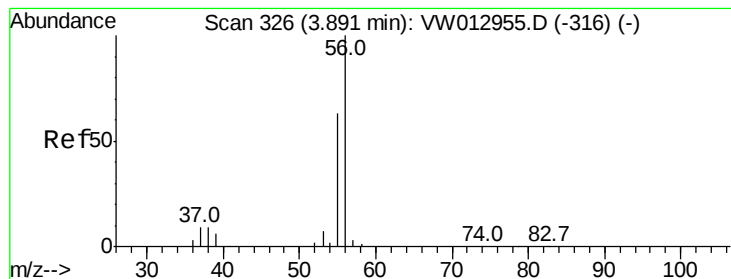
5.00

5.10

5.20

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.91 min Scan# 329

Delta R.T. 0.02 min

Lab File: VW012991.D

Acq: 14 Sep 2019 14:12

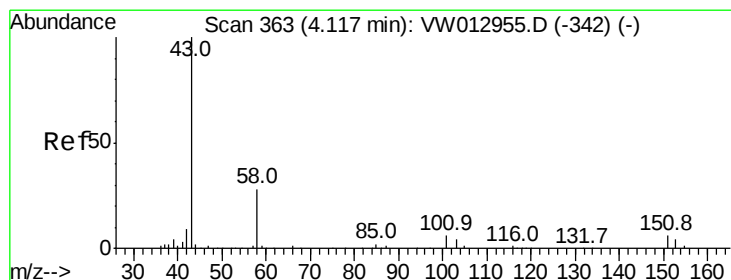
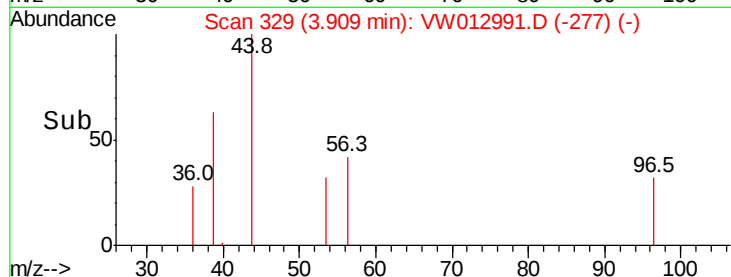
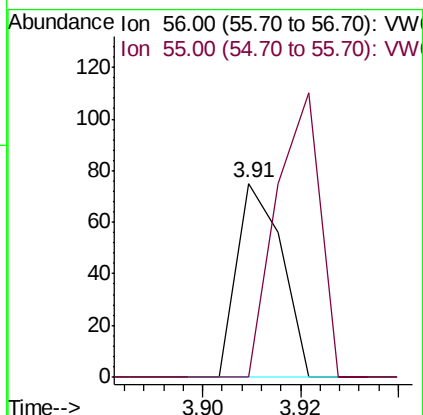
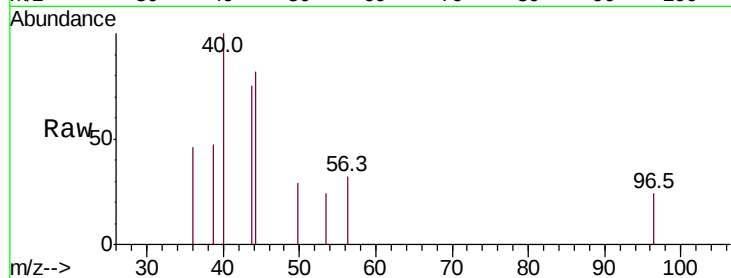
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 56 Resp: 48

Ion Ratio Lower Upper

56 100

55 141.7 55.8 83.8#



#16

Acetone

Concen: Below Cal

RT: 4.09 min Scan# 359

Delta R.T. -0.02 min

Lab File: VW012991.D

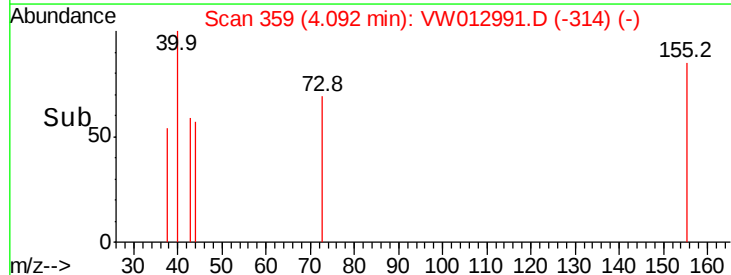
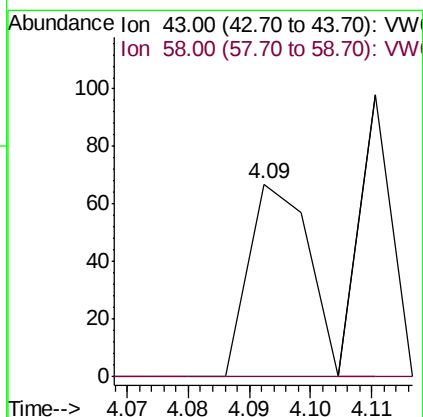
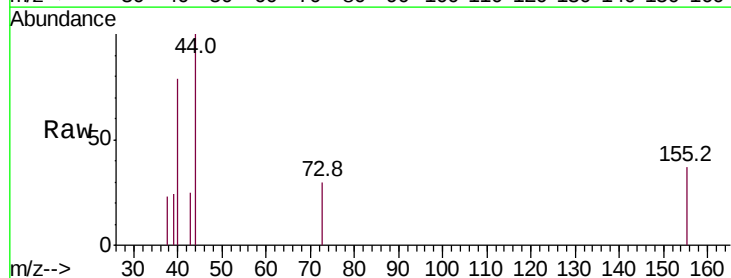
Acq: 14 Sep 2019 14:12

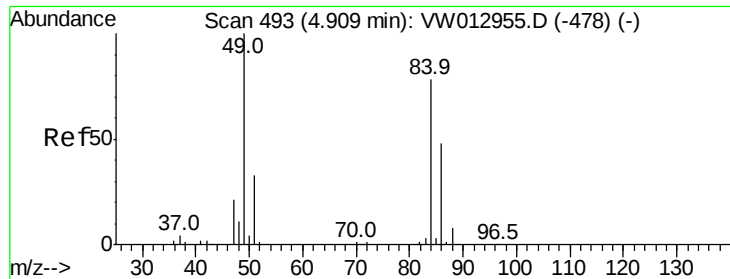
Tgt Ion: 43 Resp: 45

Ion Ratio Lower Upper

43 100

58 0.0 22.3 33.5#

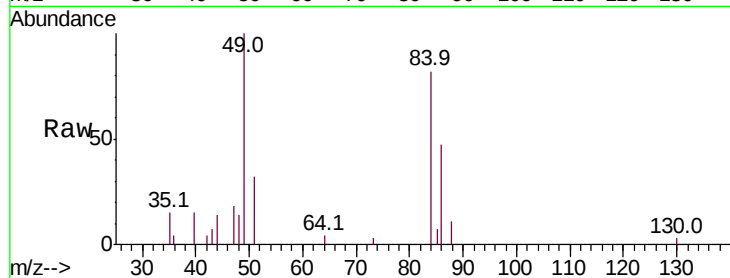




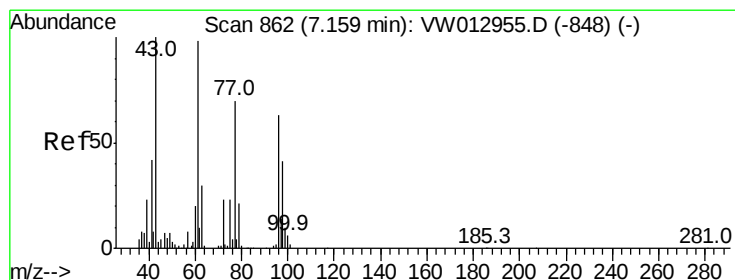
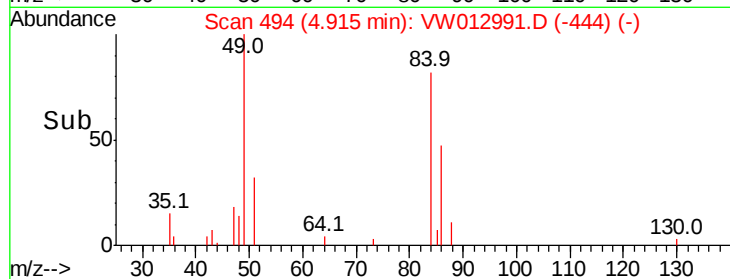
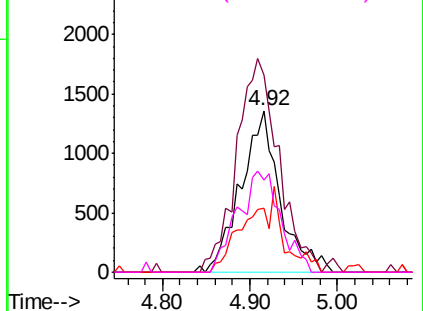
#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW012991.D  
Acq: 14 Sep 2019 14:12

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 84 Resp: 4219  
Ion Ratio Lower Upper  
84 100  
49 122.4 102.0 153.0  
51 39.4 34.0 51.0  
86 57.5 48.5 72.7

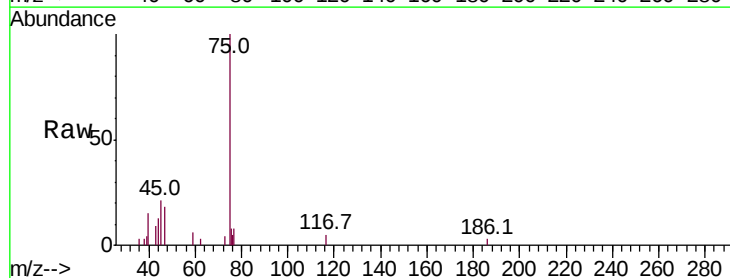


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

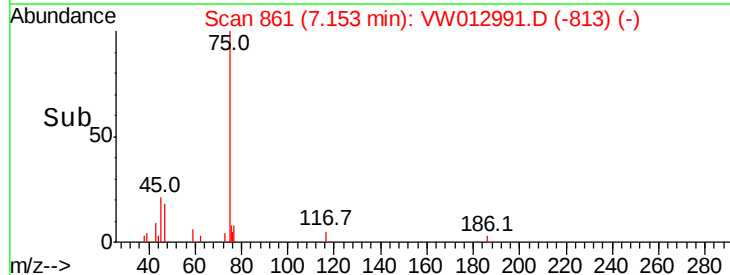
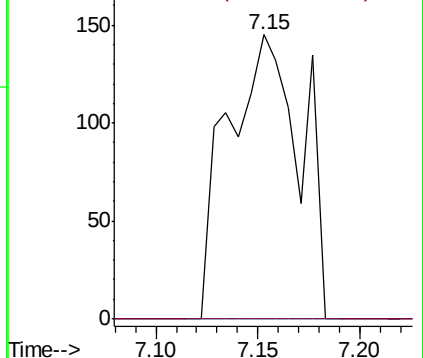


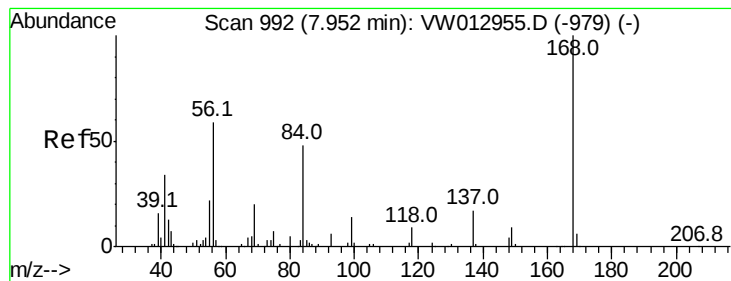
#26  
2,2-Dichloropropane  
Concen: Below Cal  
RT: 7.15 min Scan# 861  
Delta R.T. -0.01 min  
Lab File: VW012991.D  
Acq: 14 Sep 2019 14:12

Tgt Ion: 77 Resp: 362  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.7 32.1#



Abundance Ion 76.90 (76.60 to 77.60): VW  
Ion 96.90 (96.60 to 97.60): VW





#31

Cyclohexane

Concen: Below Cal

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012991.D

Acq: 14 Sep 2019 14:12

Instrument :

MSVOA\_W

ClientSampled :

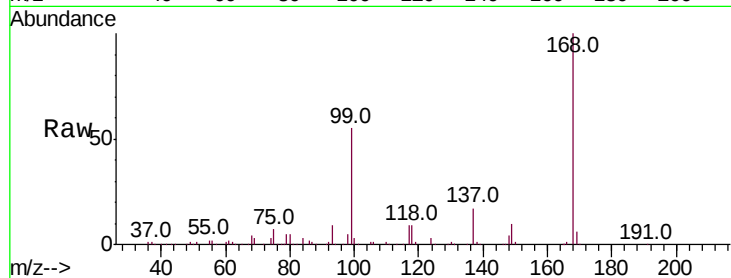
Tot Ion: 56 Resp: 6422

Ion Ratio Lower Upper

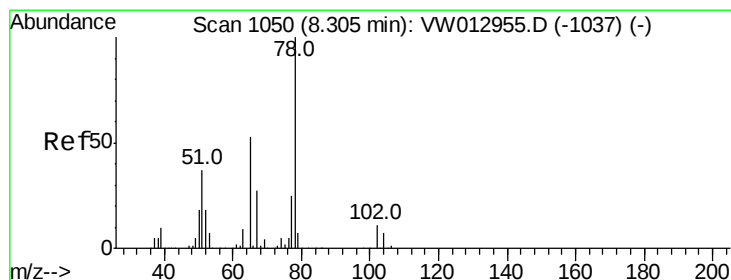
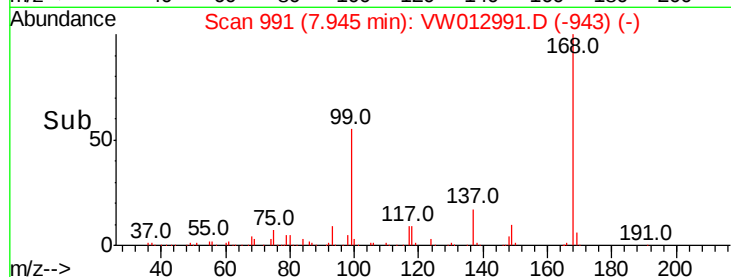
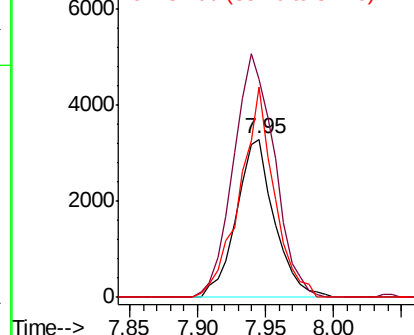
56 100

69 138.1 27.0 40.6#

84 132.5 66.2 99.2#



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: 58.835 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012991.D

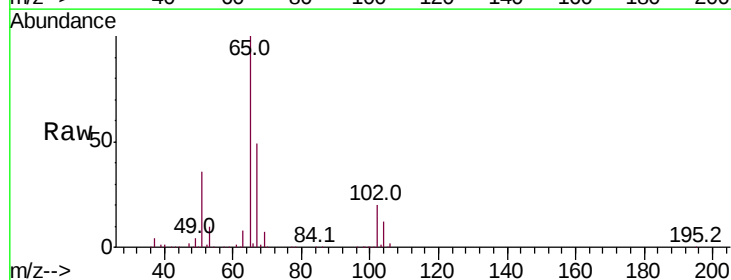
Acq: 14 Sep 2019 14:12

Tgt Ion: 65 Resp: 154418

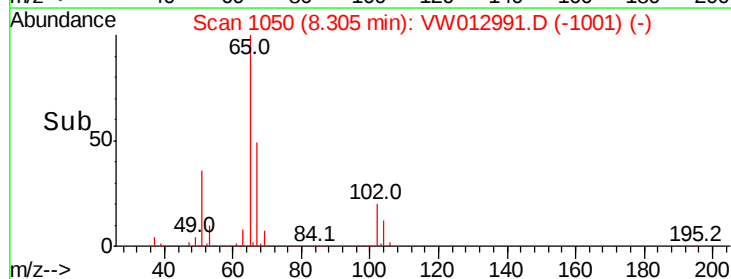
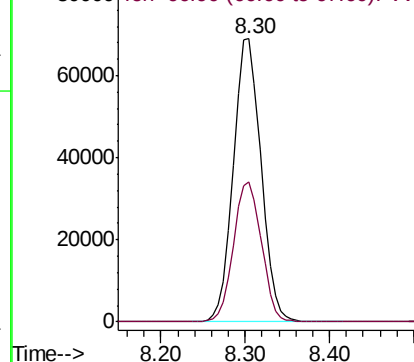
Ion Ratio Lower Upper

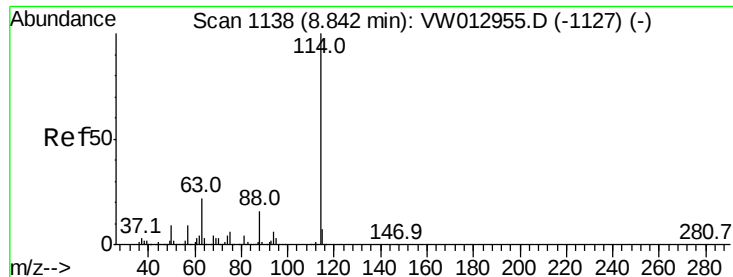
65 100

67 49.7 0.0 101.2



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: VW012991.D

Acq: 14 Sep 2019 14:12

Instrument :

MSVOA\_W

ClientSampled :

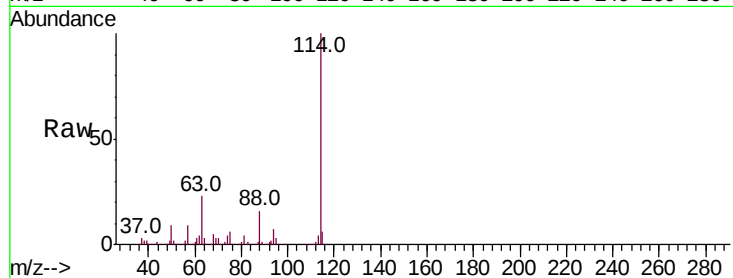
Tot Ion:114 Resp: 423583

Ion Ratio Lower Upper

114 100

63 23.0 0.0 43.4

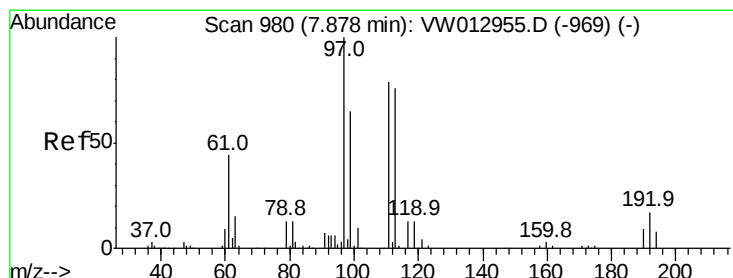
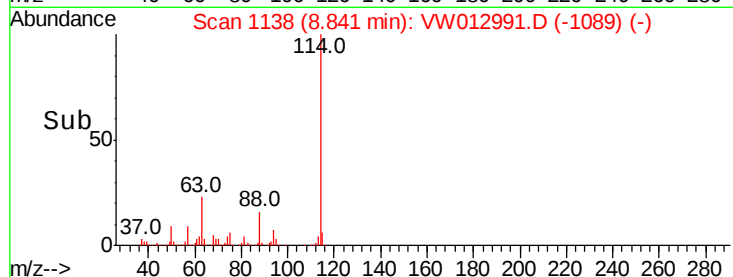
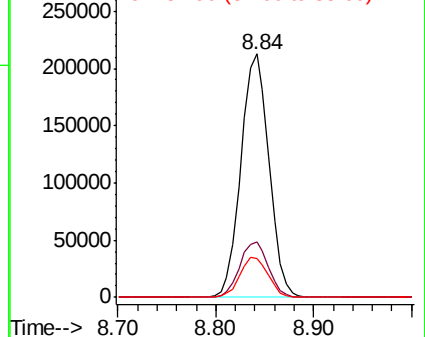
88 16.1 0.0 31.6



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: 55.332 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW012991.D

Acq: 14 Sep 2019 14:12

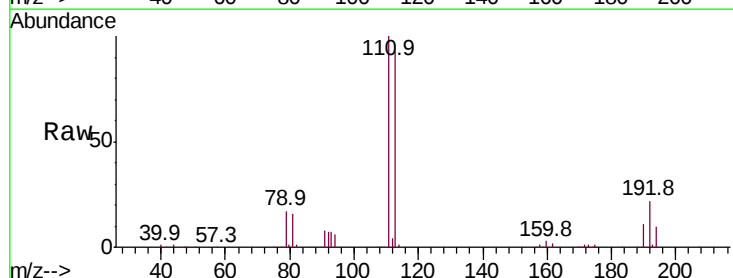
Tgt Ion:113 Resp: 127176

Ion Ratio Lower Upper

113 100

111 104.4 82.8 124.2

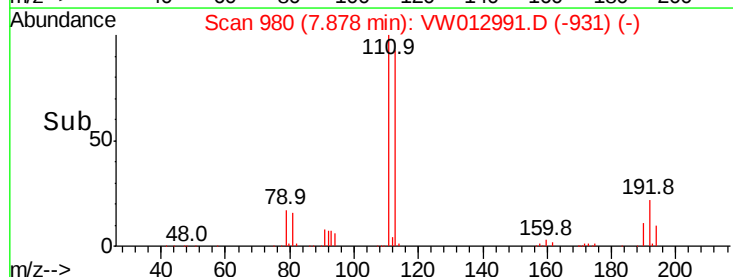
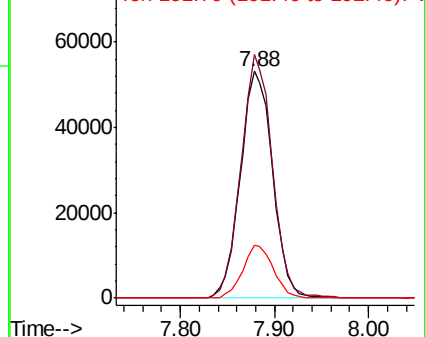
192 22.3 17.8 26.8

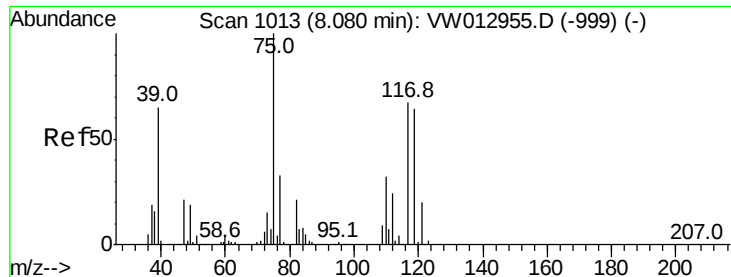


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.086 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012991.D

Acq: 14 Sep 2019 14:12

Instrument :  
MSVOA\_W  
ClientSampleId :

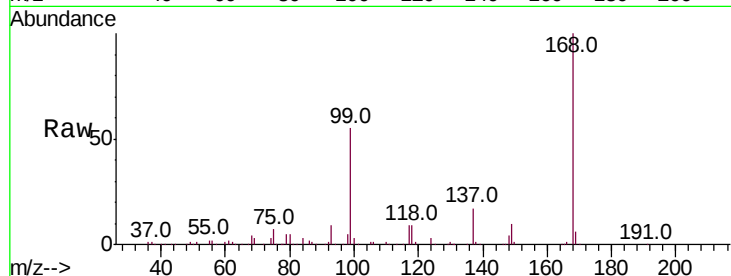
Tot Ion: 75 Resp: 20600

Ion Ratio Lower Upper

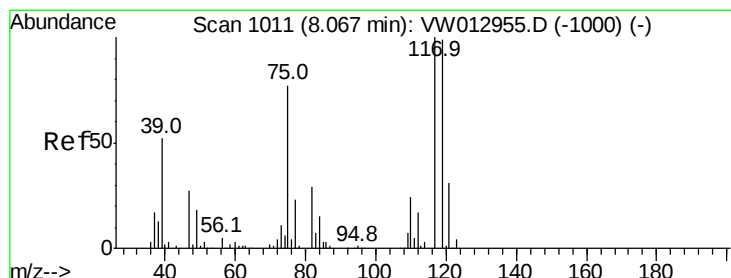
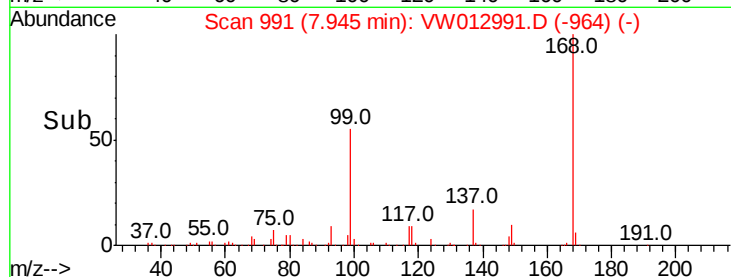
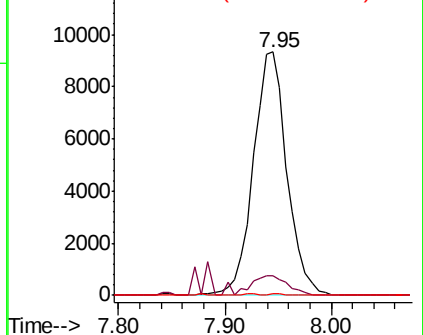
75 100

110 8.7 16.4 49.1#

77 0.2 25.1 37.7#



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: 7.882 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012991.D

Acq: 14 Sep 2019 14:12

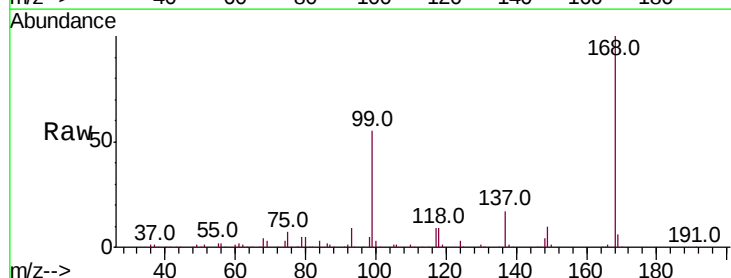
Tgt Ion: 117 Resp: 27339

Ion Ratio Lower Upper

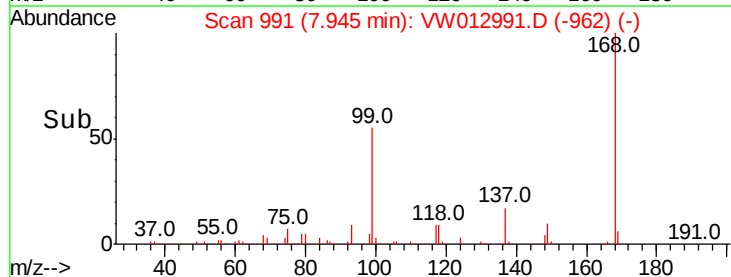
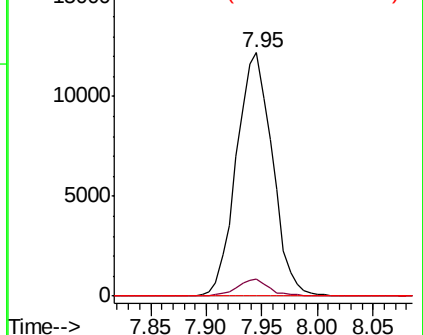
117 100

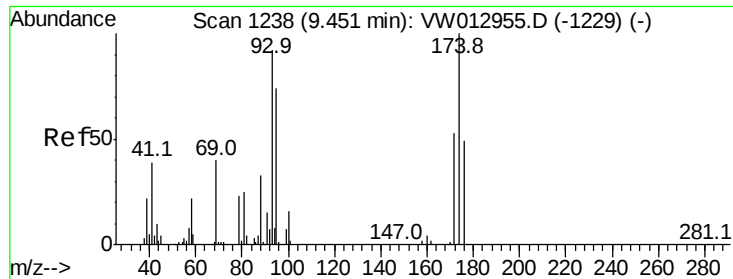
119 7.0 79.4 119.0#

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

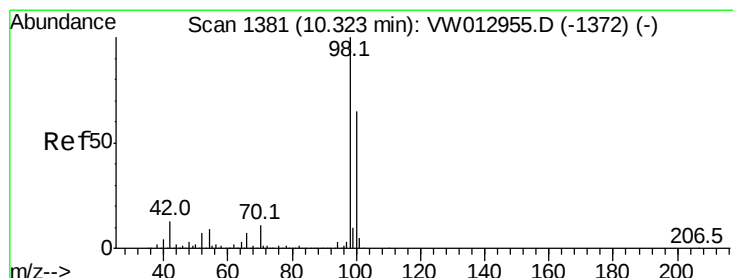
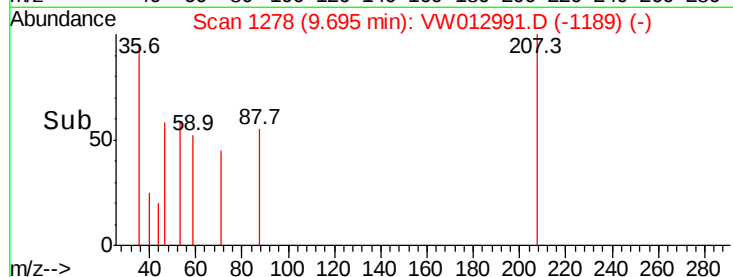
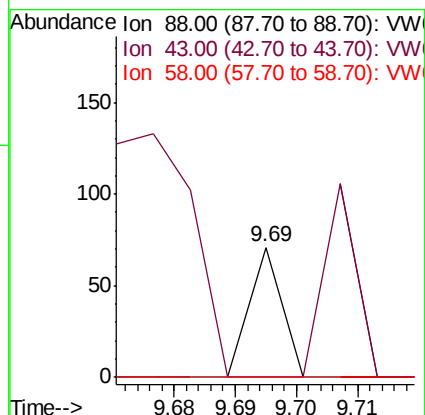
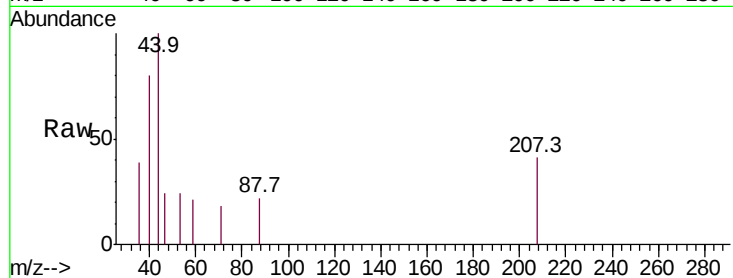




#49  
1,4-Dioxane  
Concen: 1.290 ug/l  
RT: 9.69 min Scan# 1278  
Delta R.T. 0.24 min  
Lab File: VW012991.D  
Acq: 14 Sep 2019 14:12

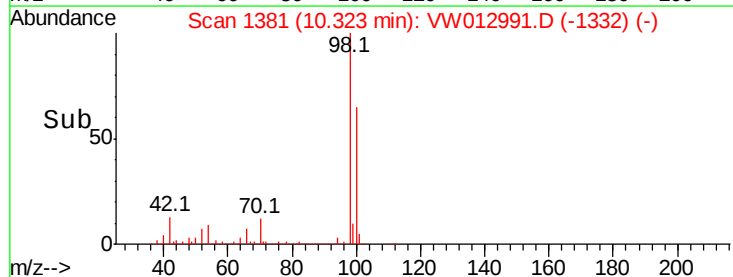
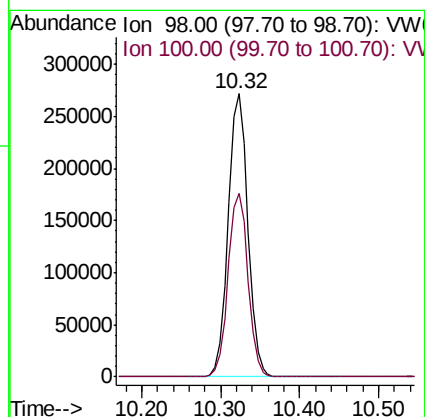
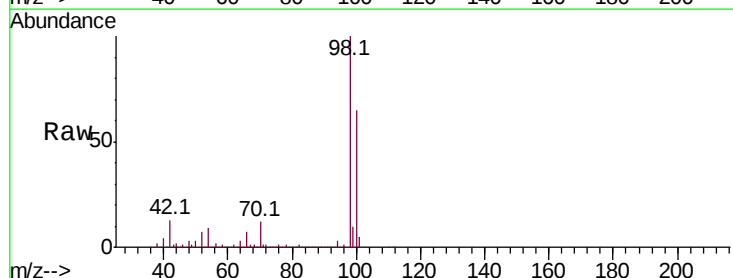
Instrument :  
MSVOA\_W  
ClientSampleId :

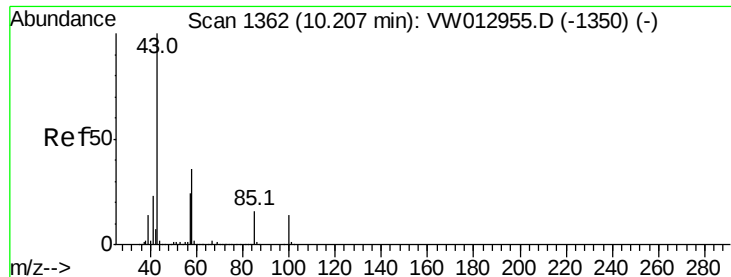
Tot Ion: 88 Resp: 26  
Ion Ratio Lower Upper  
88 100  
43 150.0 31.3 46.9#  
58 0.0 60.2 90.2#



#50  
Toluene-d8  
Concen: 52.247 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012991.D  
Acq: 14 Sep 2019 14:12

Tgt Ion: 98 Resp: 469909  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 1.529 ug/l

RT: 10.32 min Scan# 1380

Delta R.T. 0.11 min

Lab File: VW012991.D

Acq: 14 Sep 2019 14:12

Instrument :

MSVOA\_W

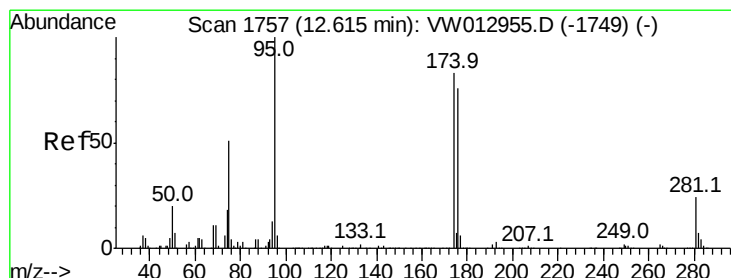
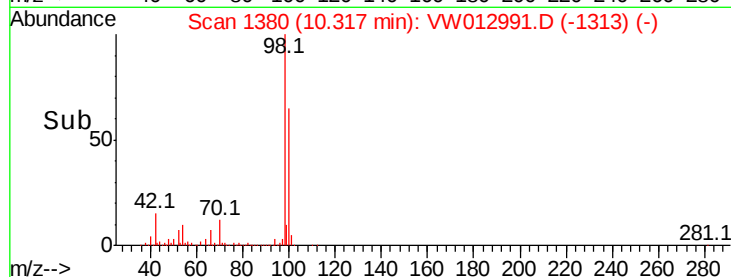
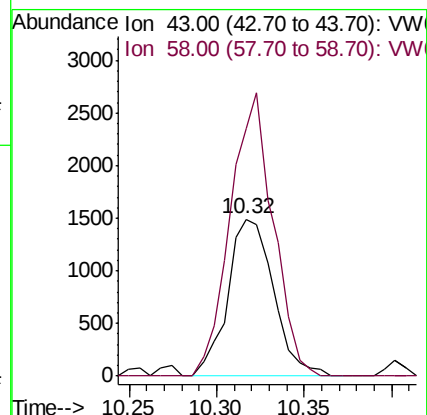
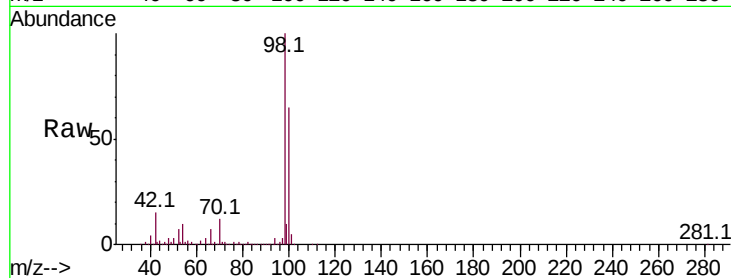
ClientSampled :

Tot Ion: 43 Resp: 2723

Ion Ratio Lower Upper

43 100

58 168.3 29.5 44.3#



#62

4-Bromofluorobenzene

Concen: 45.735 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012991.D

Acq: 14 Sep 2019 14:12

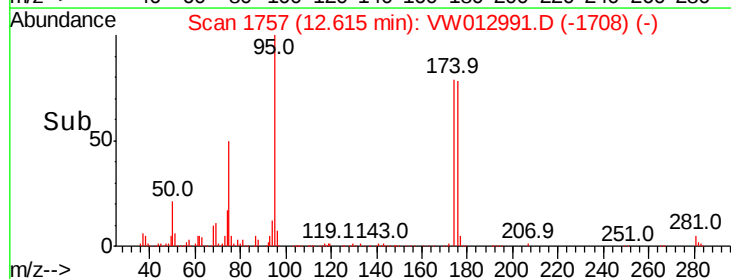
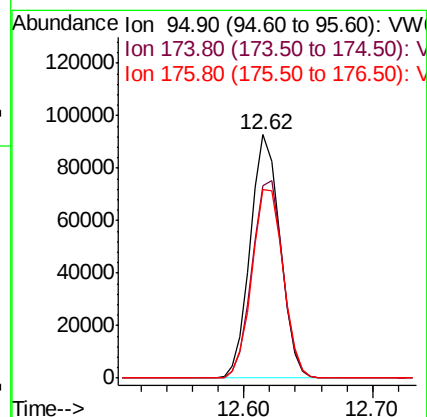
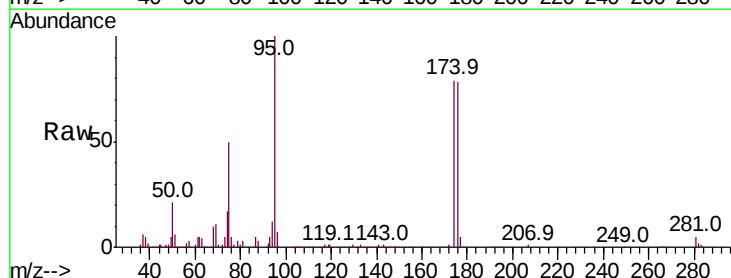
Tgt Ion: 95 Resp: 147908

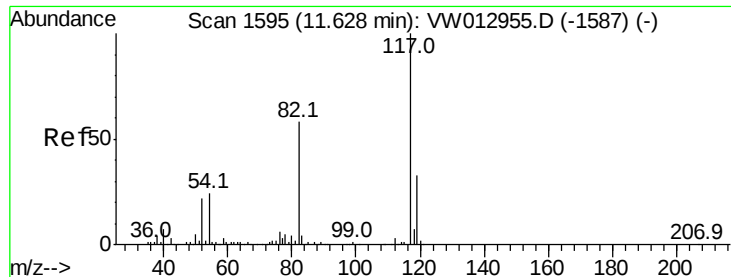
Ion Ratio Lower Upper

95 100

174 83.8 0.0 170.4

176 81.4 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: VW012991.D

Acq: 14 Sep 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

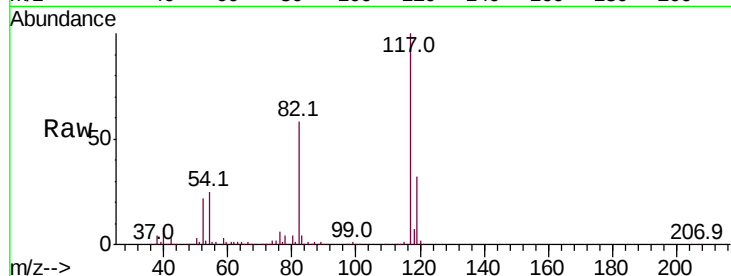
Tot Ion:117 Resp: 343918

Ion Ratio Lower Upper

117 100

82 58.2 46.3 69.5

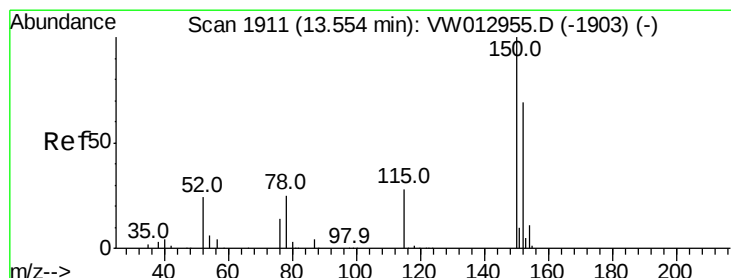
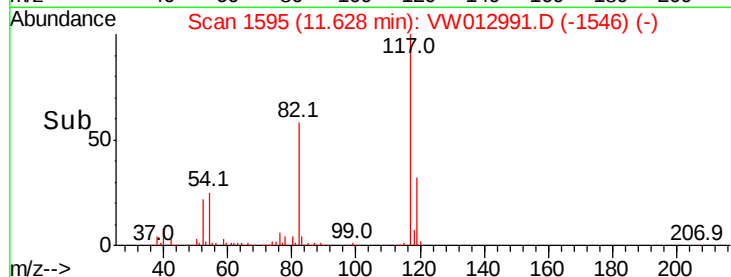
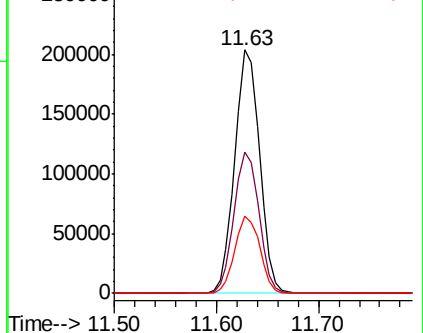
119 32.0 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW012991.D

Acq: 14 Sep 2019 14:12

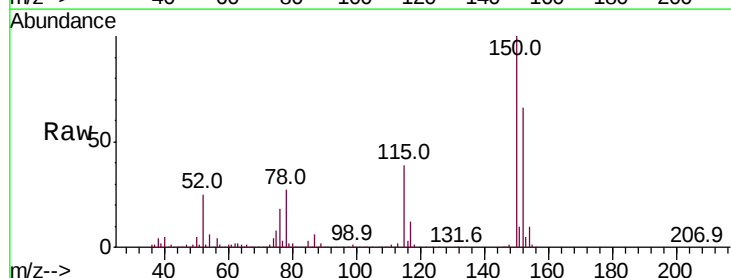
Tgt Ion:152 Resp: 126455

Ion Ratio Lower Upper

152 100

115 59.0 28.8 86.4

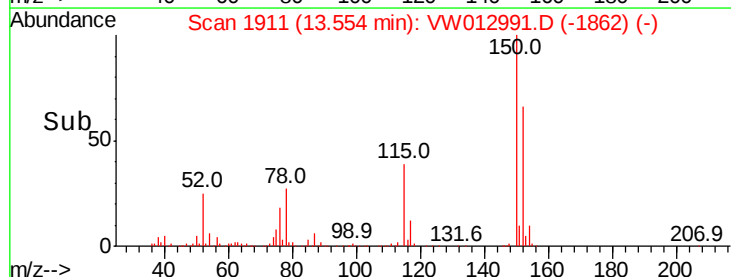
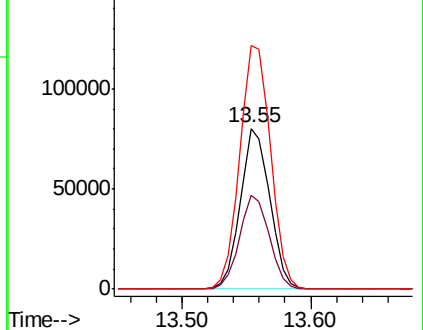
150 158.9 0.0 340.2

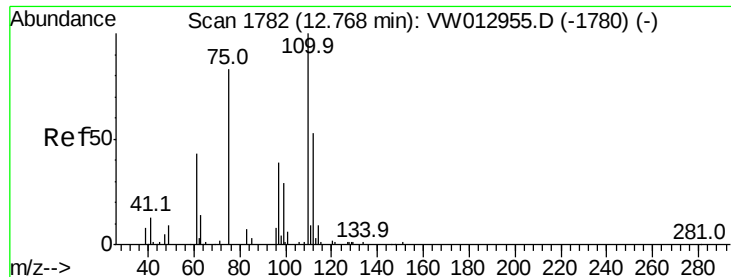


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 68.878 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012991.D

Acq: 14 Sep 2019 14:12

Instrument :

MSVOA\_W

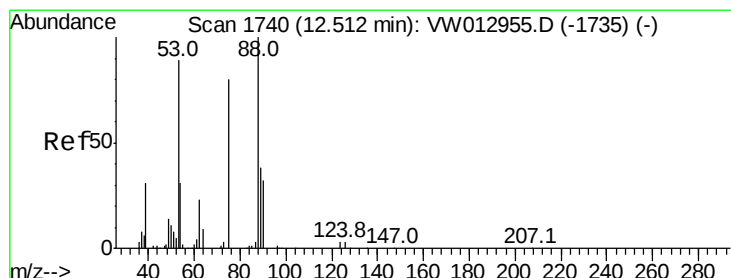
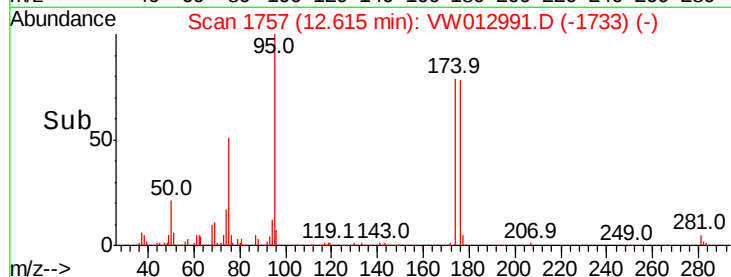
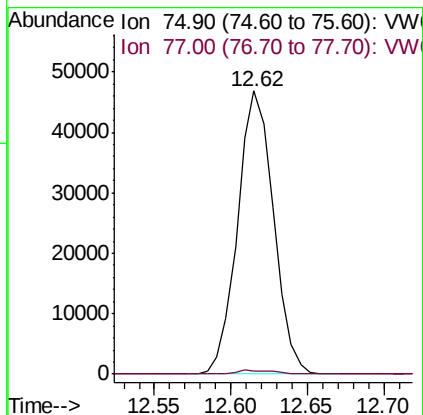
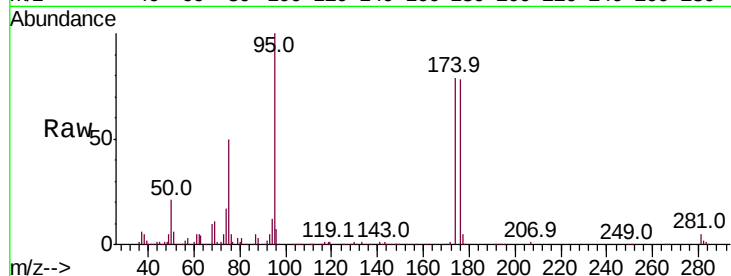
ClientSampleId :

Tot Ion: 75 Resp: 76292

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 156.248 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012991.D

Acq: 14 Sep 2019 14:12

Tgt Ion: 75 Resp: 76292

Ion Ratio Lower Upper

75 100

53 0.2 85.6 128.4#

89 0.0 37.2 55.8#

