

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091718\
 Data File : VW005458.D
 Acq On : 18 Sep 2018 04:10
 Operator : SY/AP
 Sample : J4951-01
 Misc : 4.76G/5ML/MSVOA_W/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RB48380RT

Quant Time: Sep 18 06:04:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091618S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 15 02:32:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	143922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	234454	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	211213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	77677	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	75420	50.48	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.96%	
35) Dibromofluoromethane	7.89	113	60320	45.89	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.78%	
50) Toluene-d8	10.33	98	215942	35.87	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	71.74%	
62) 4-Bromofluorobenzene	12.62	95	72766	32.97	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	65.94%	

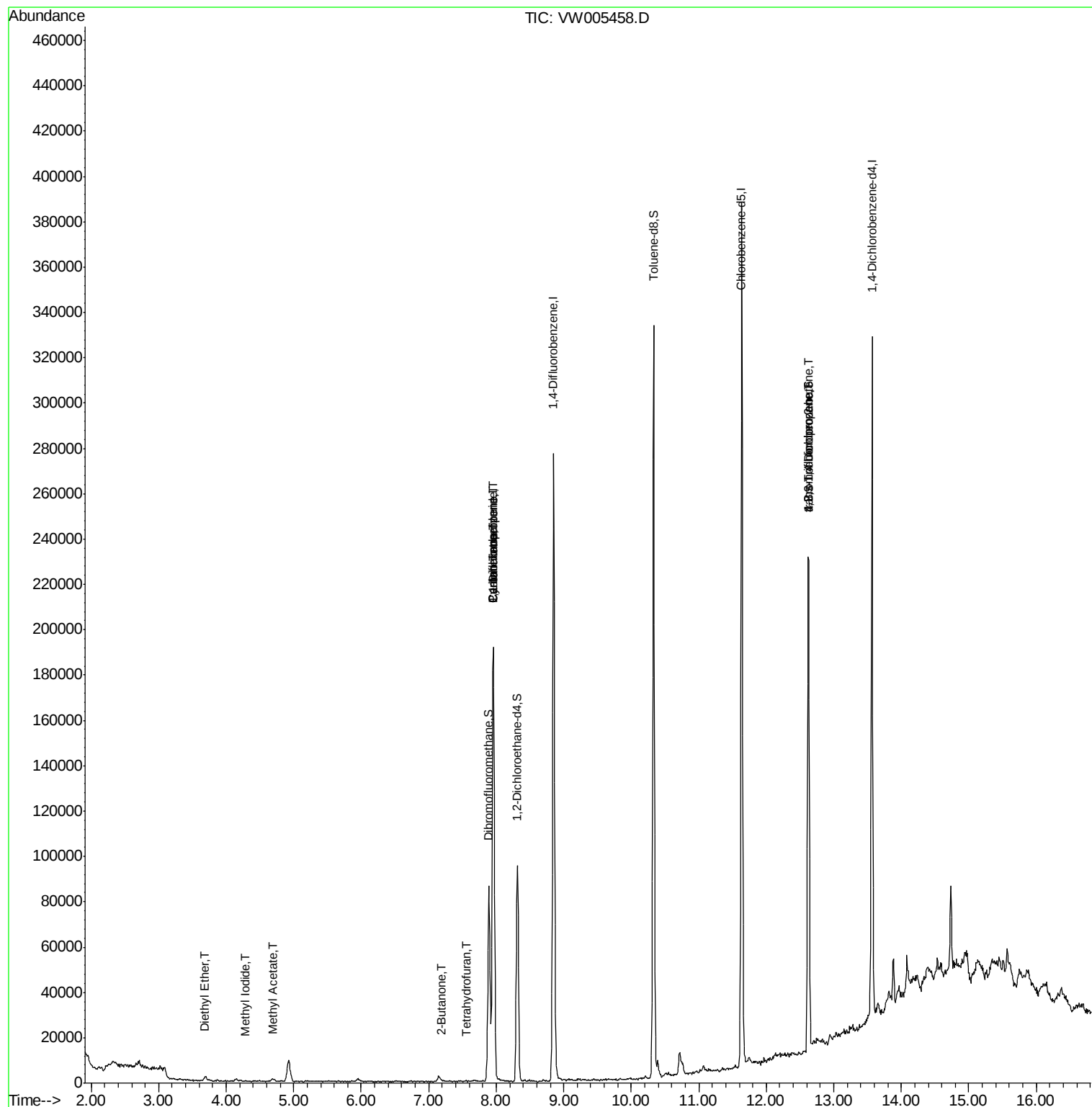
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	148	Below Cal	#	40
5) Bromomethane	2.78	94	306	Below Cal		96
8) Diethyl Ether	3.69	74	1046	1.669	ug/l	80
10) Methyl Iodide	4.28	142	158	4.144	ug/l #	77
11) Tert butyl alcohol	5.22	59	23	Below Cal	#	71
13) Acrolein	4.12	56	19	Below Cal	#	12
16) Acetone	4.15	43	1914	Below Cal	#	69
18) Methyl Acetate	4.68	43	2599	3.620	ug/l	91
20) Methylene Chloride	4.93	84	6963	Below Cal		89
25) 2-Butanone	7.19	43	389	1.082	ug/l #	49
29) Tetrahydrofuran	7.56	42	317	1.385	ug/l #	62
31) Cyclohexane	7.95	56	3194	1.340	ug/l #	1
36) 1,1-Dichloropropene	7.96	75	11464	5.167	ug/l #	51
38) Carbon Tetrachloride	7.96	117	14184	6.135	ug/l #	17
76) 1,2,3-Trichloropropane	12.62	75	36473	57.089	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	36473	148.093	ug/l #	9

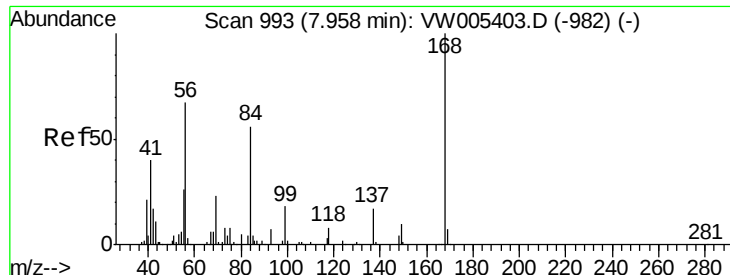
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW005458.D

Acq: 18 Sep 2018 04:10

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MSVOA_W

ClientSampleId :

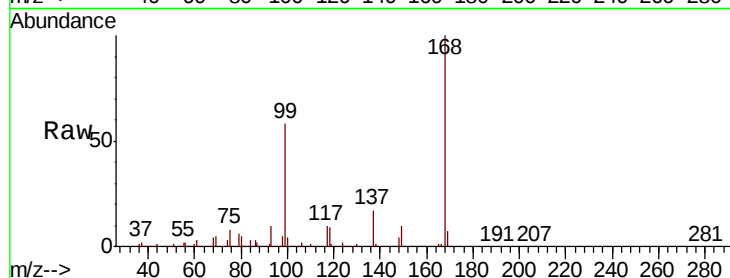
RB48380RT

Tgt Ion:168 Resp: 143922

Ion Ratio Lower Upper

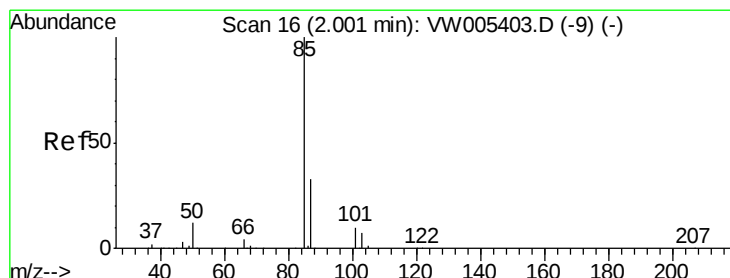
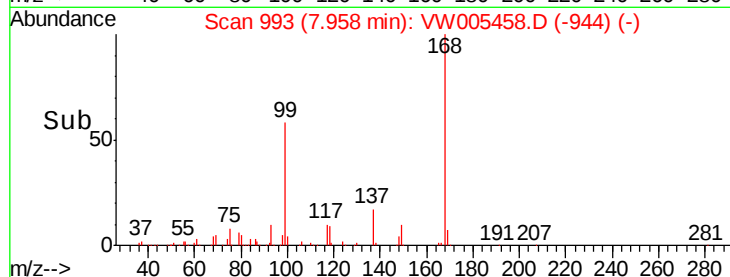
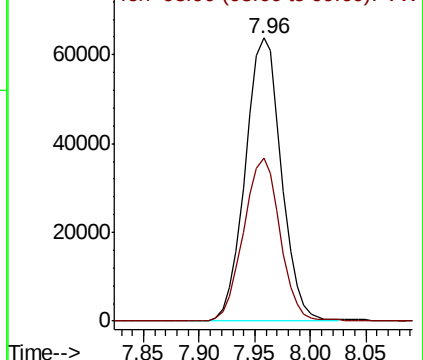
168 100

99 57.8 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW005458.D

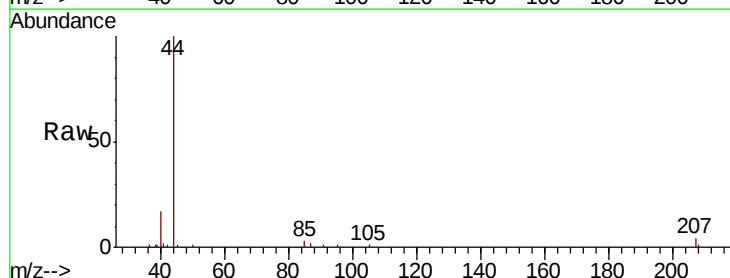
Acq: 18 Sep 2018 04:10

Tgt Ion: 85 Resp: 148

Ion Ratio Lower Upper

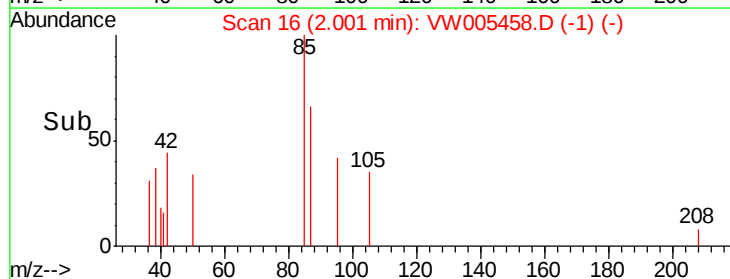
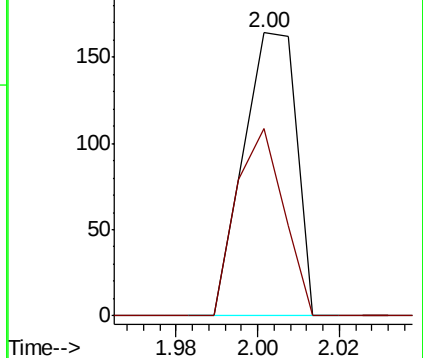
85 100

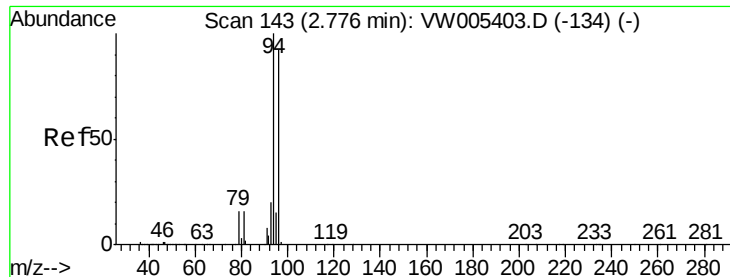
87 66.5 16.4 49.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW005458.D

Acq: 18 Sep 2018 04:10

Instrument :

MSVOA_W

ClientSampleId :

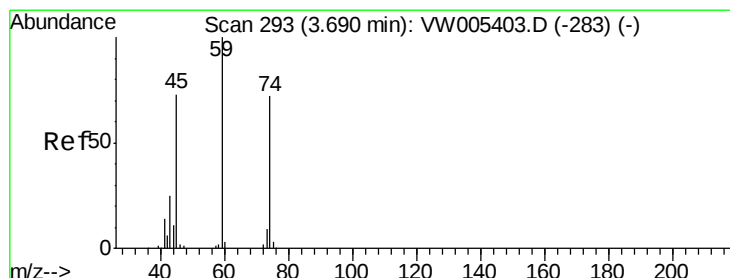
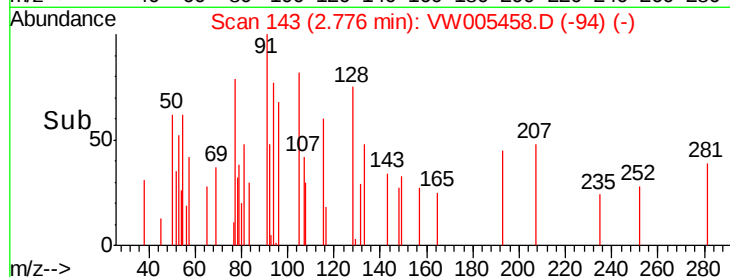
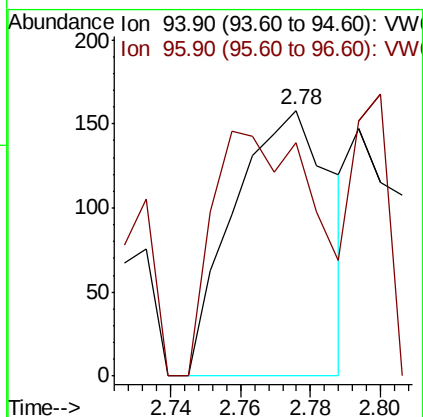
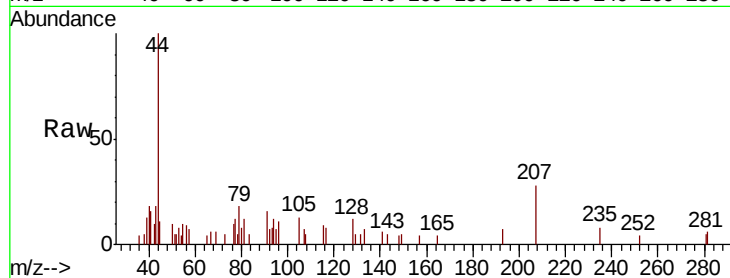
RB48380RT

Tgt Ion: 94 Resp: 306

Ion Ratio Lower Upper

94 100

96 88.0 73.7 110.5



#8

Diethyl Ether

Concen: 1.669 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.00 min

Lab File: VW005458.D

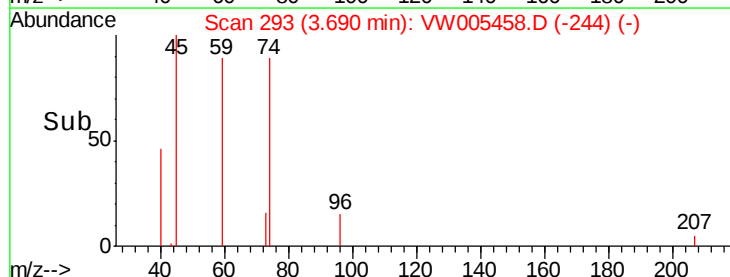
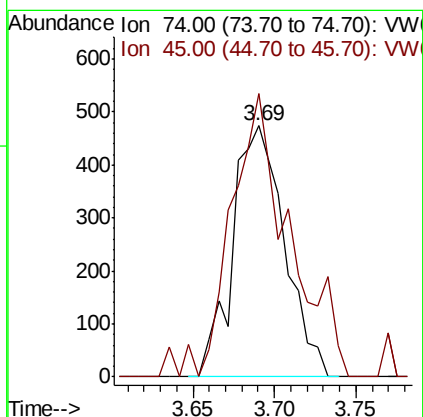
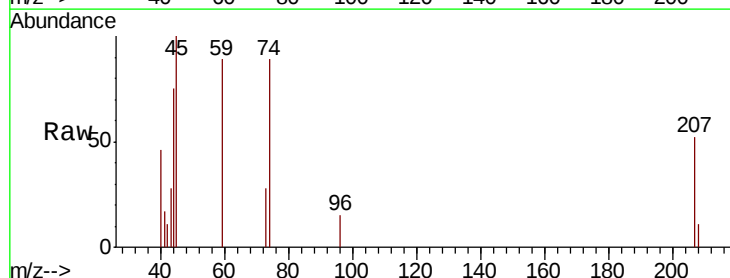
Acq: 18 Sep 2018 04:10

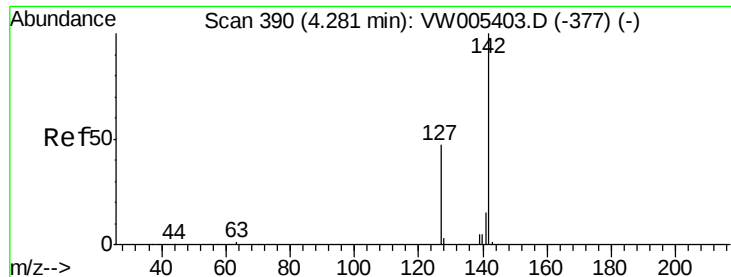
Tgt Ion: 74 Resp: 1046

Ion Ratio Lower Upper

74 100

45 126.8 53.1 159.3

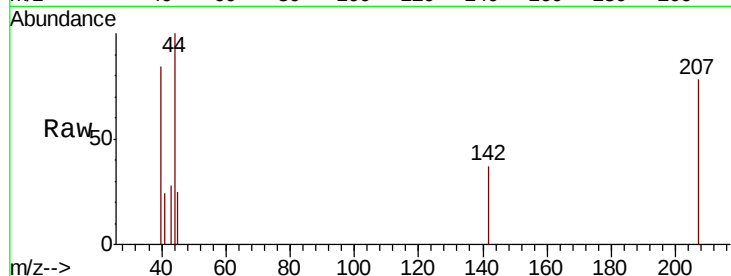




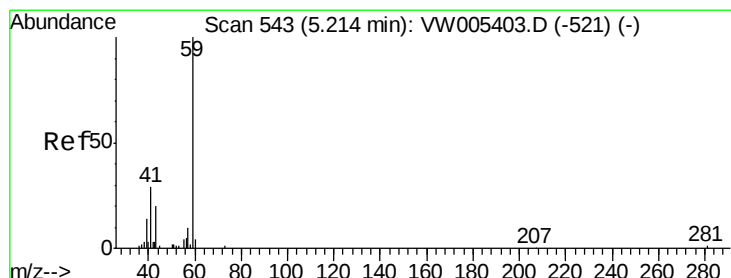
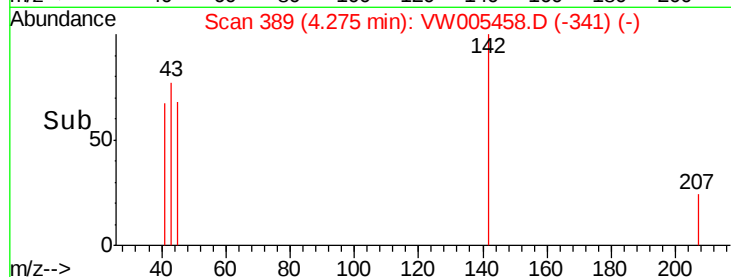
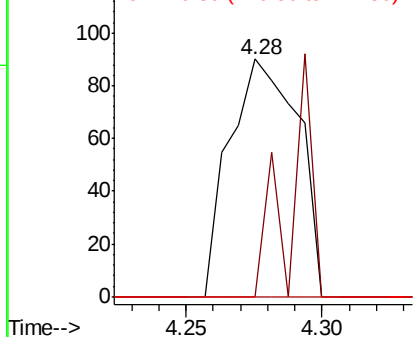
#10
Methyl Iodide
Concen: 4.144 ug/l
RT: 4.28 min Scan# 389
Delta R.T. -0.01 min
Lab File: VW005458.D
Acq: 18 Sep 2018 04:10

Instrument :
MSVOA_W
ClientSampleId :
RB48380RT

Tgt Ion: 142 Resp: 158
Ion Ratio Lower Upper
142 100
127 34.2 37.5 56.3#
141 0.0 12.4 18.6#

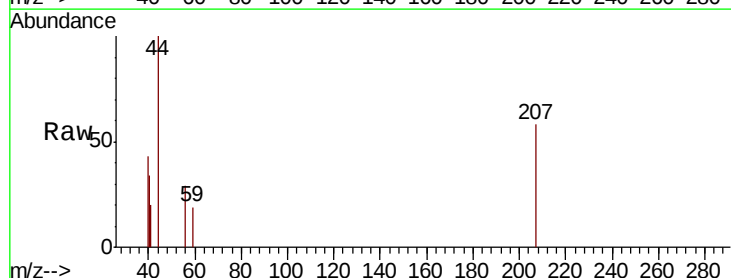


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

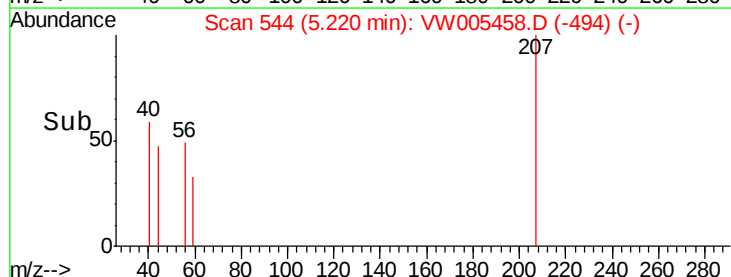
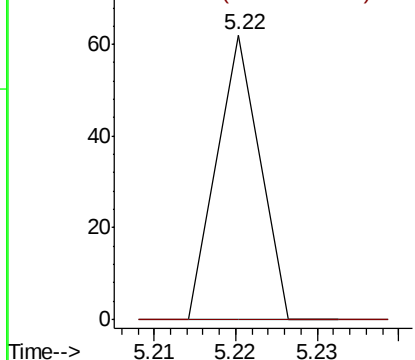


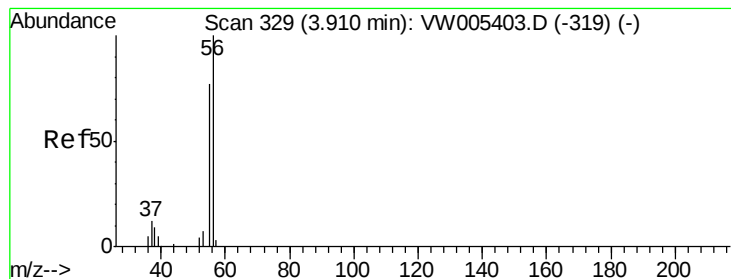
#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.22 min Scan# 544
Delta R.T. 0.01 min
Lab File: VW005458.D
Acq: 18 Sep 2018 04:10

Tgt Ion: 59 Resp: 23
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VW
Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: Below Cal

RT: 4.12 min Scan# 363

Delta R.T. 0.21 min

Lab File: VW005458.D

Acq: 18 Sep 2018 04:10

Instrument :

MSVOA_W

ClientSampleId :

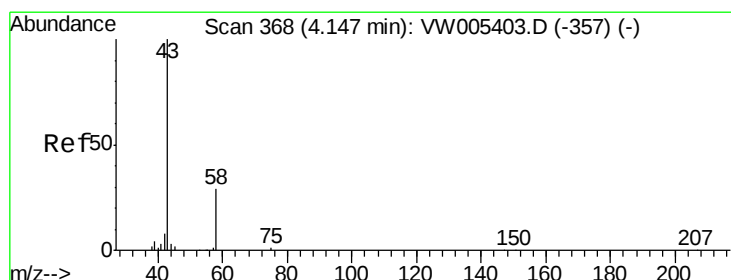
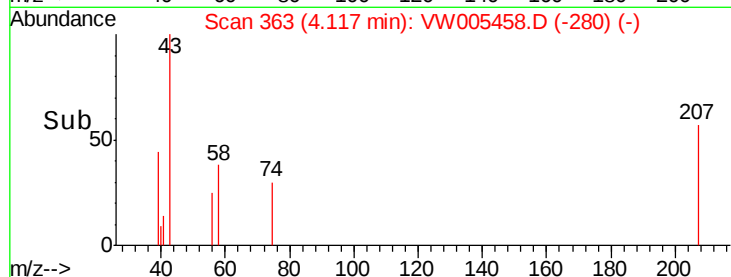
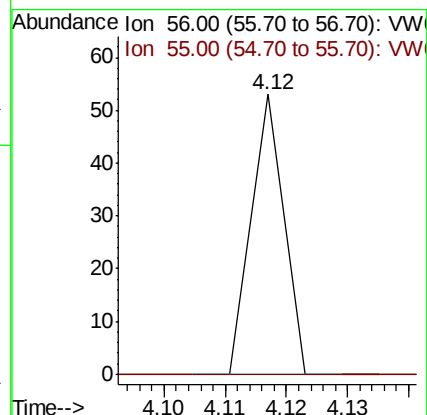
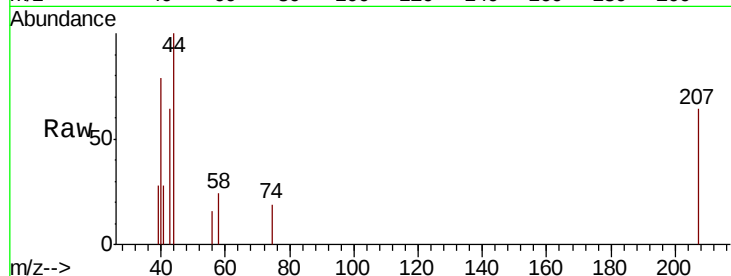
RB48380RT

Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 0.0 59.8 89.8#



#16

Acetone

Concen: Below Cal

RT: 4.15 min Scan# 369

Delta R.T. 0.01 min

Lab File: VW005458.D

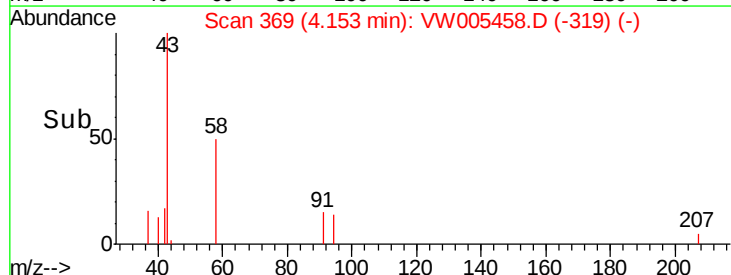
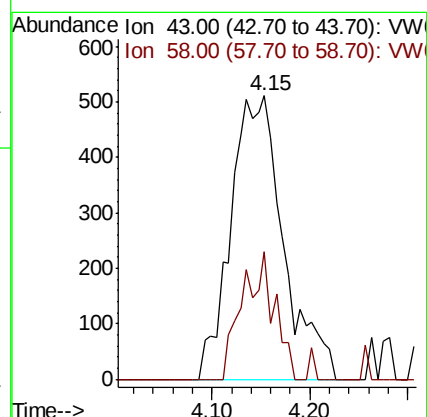
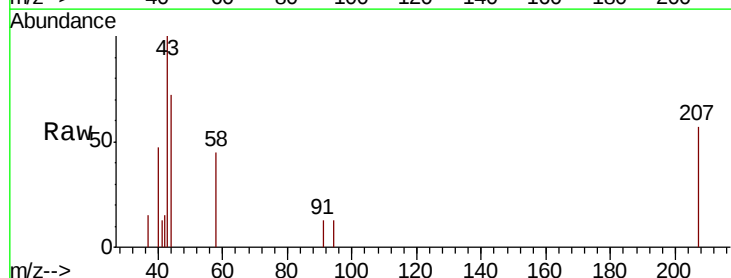
Acq: 18 Sep 2018 04:10

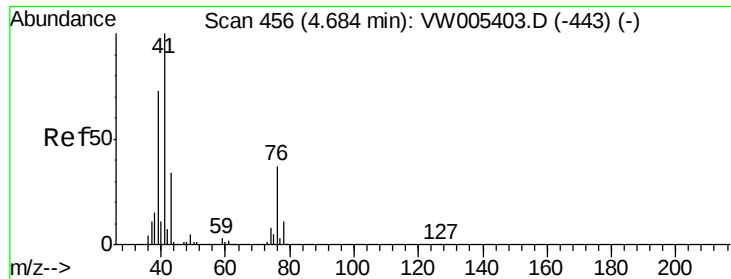
Tgt Ion: 43 Resp: 1914

Ion Ratio Lower Upper

43 100

58 44.8 22.8 34.2#

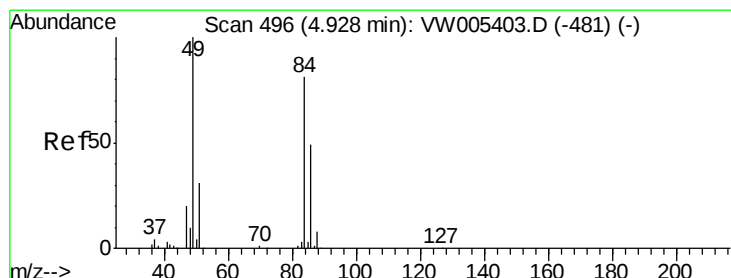
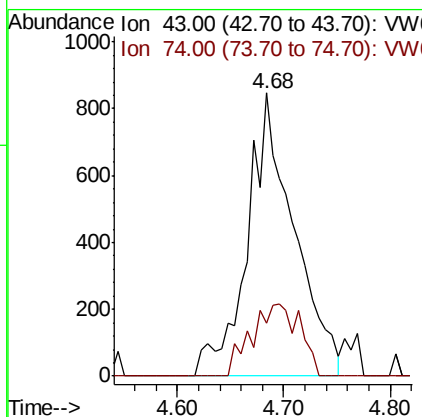
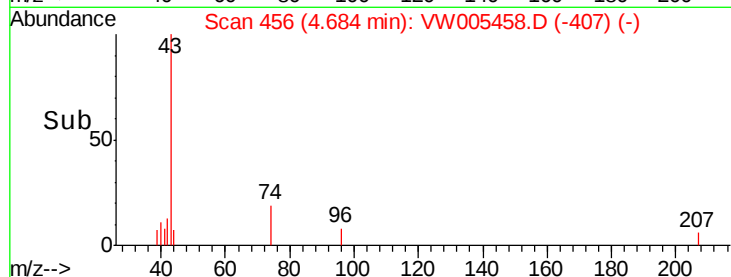
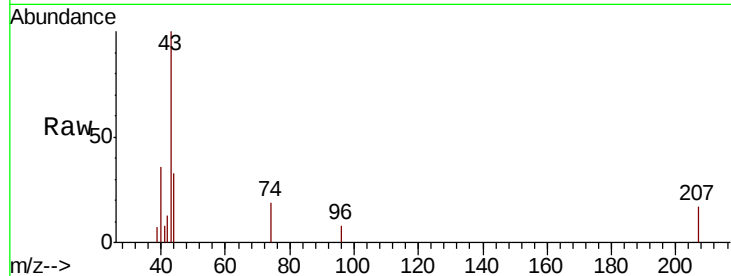




#18
Methyl Acetate
Concen: 3.620 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.00 min
Lab File: VW005458.D
Acq: 18 Sep 2018 04:10

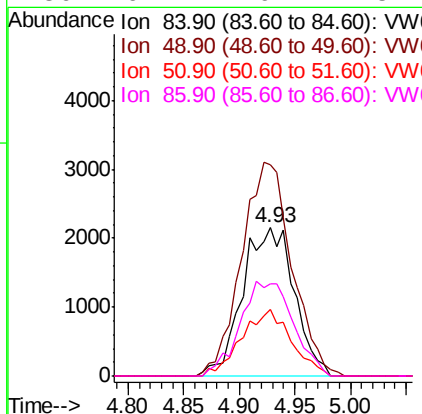
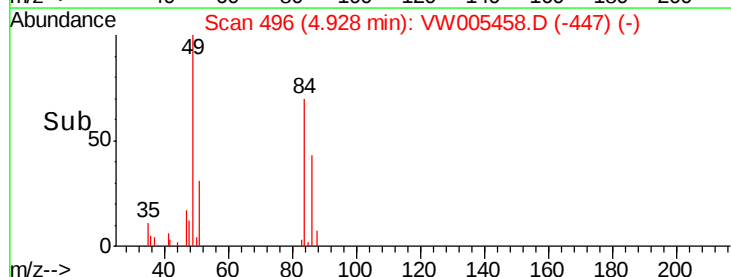
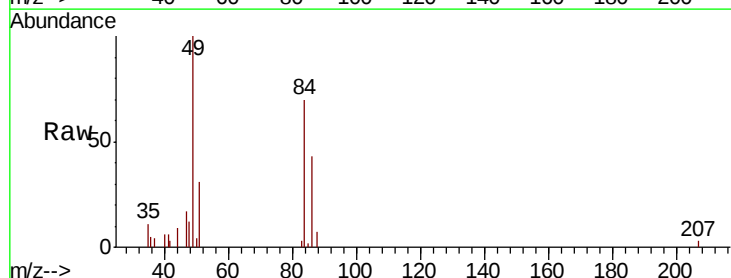
Instrument :
MSVOA_W
ClientSampleId :
RB48380RT

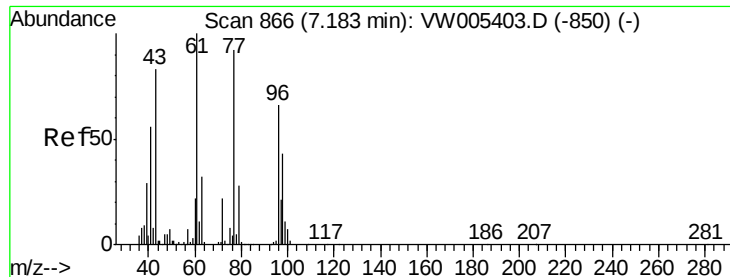
Tgt Ion: 43 Resp: 2599
Ion Ratio Lower Upper
43 100
74 26.4 17.7 26.5



#20
Methylene Chloride
Concen: Below Cal
RT: 4.93 min Scan# 496
Delta R.T. 0.00 min
Lab File: VW005458.D
Acq: 18 Sep 2018 04:10

Tgt Ion: 84 Resp: 6963
Ion Ratio Lower Upper
84 100
49 142.1 99.3 148.9
51 44.7 31.1 46.7
86 61.7 49.1 73.7





#25

2-Butanone

Concen: 1.082 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.01 min

Lab File: VW005458.D

Acq: 18 Sep 2018 04:10

Instrument :

MSVOA_W

ClientSampleId :

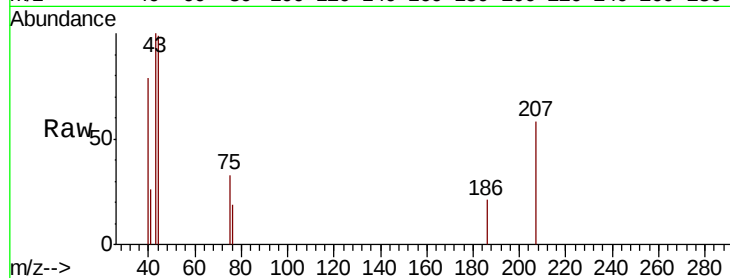
RB48380RT

Tgt Ion: 43 Resp: 389

Ion Ratio Lower Upper

43 100

72 0.0 21.1 31.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.19

7.20

7.21

7.22

7.23

7.24

7.25

7.26

7.27

7.28

7.29

7.30

7.31

7.32

7.33

7.34

7.35

7.36

7.37

7.38

7.39

7.40

7.41

7.42

7.43

7.44

7.45

7.46

7.47

7.48

7.49

7.50

7.51

7.52

7.53

7.54

7.55

7.56

7.57

7.58

7.59

7.60

7.61

7.62

7.63

7.64

7.65

7.66

7.67

7.68

7.69

7.70

7.71

7.72

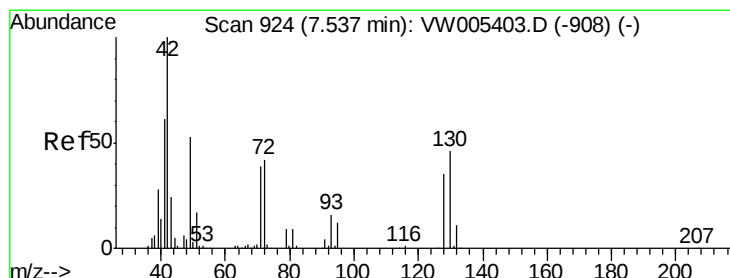
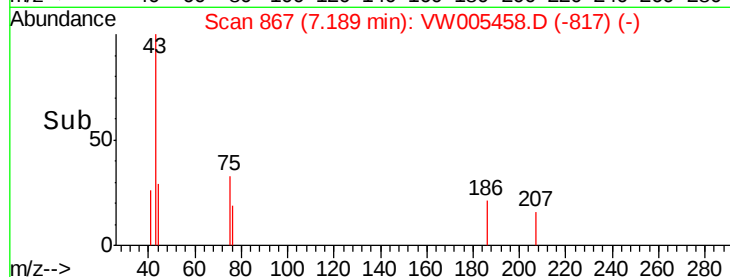
7.73

7.74

7.75

7.76

7.77



#29

Tetrahydrofuran

Concen: 1.385 ug/l

RT: 7.56 min Scan# 927

Delta R.T. 0.02 min

Lab File: VW005458.D

Acq: 18 Sep 2018 04:10

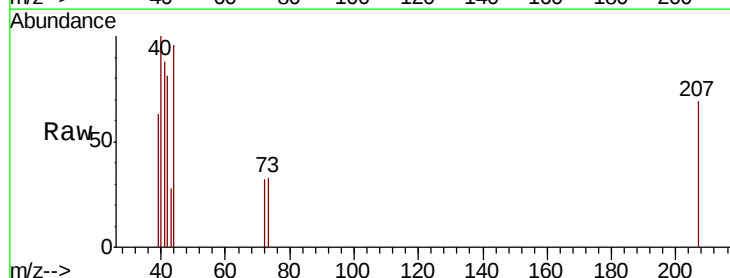
Tgt Ion: 42 Resp: 317

Ion Ratio Lower Upper

42 100

72 24.6 33.2 49.8#

71 8.8 31.0 46.6#



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

7.56

7.57

7.58

7.59

7.60

7.61

7.62

7.63

7.64

7.65

7.66

7.67

7.68

7.69

7.70

7.71

7.72

7.73

7.74

7.75

7.76

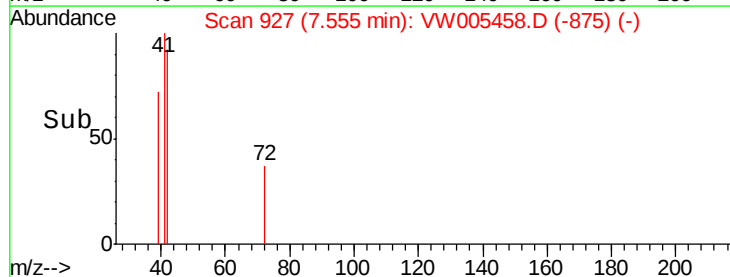
7.77

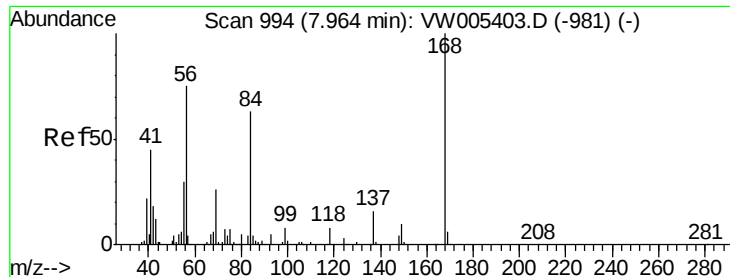
7.78

7.79

7.80

7.81

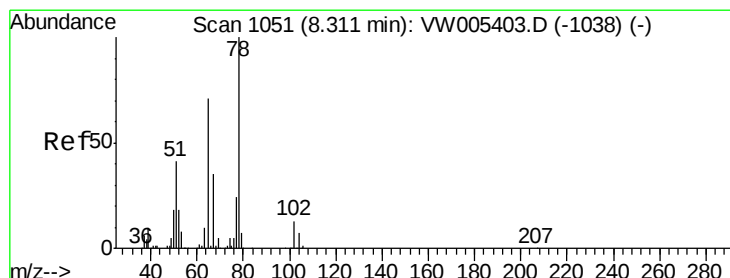
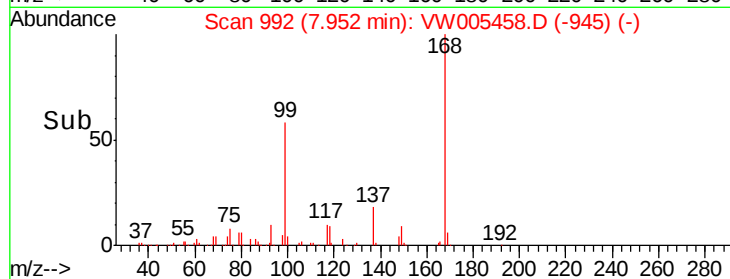
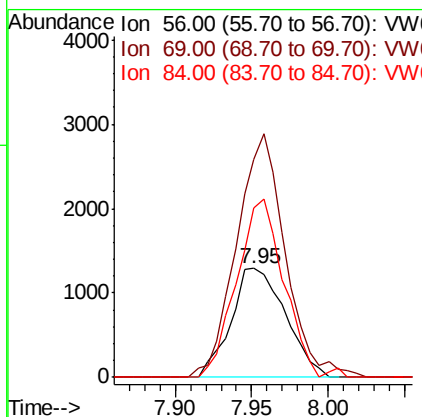
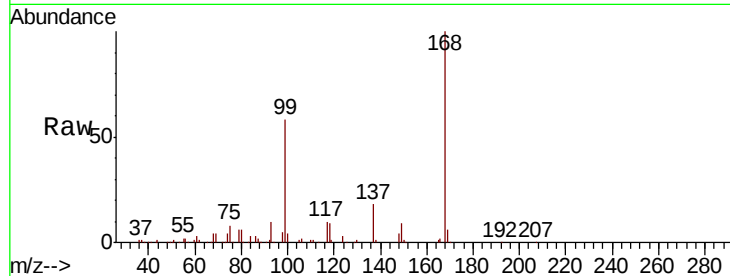




#31
Cyclohexane
Concen: 1.340 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW005458.D
Acq: 18 Sep 2018 04:10

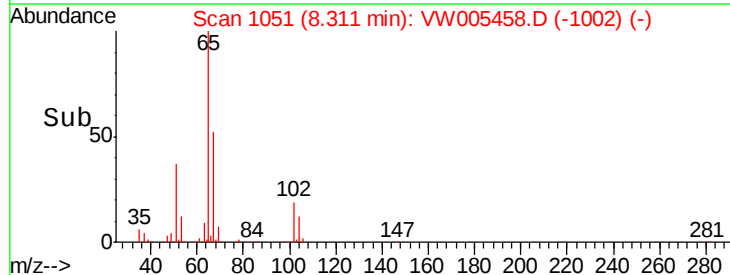
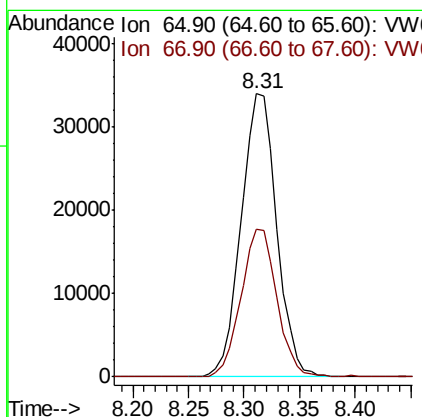
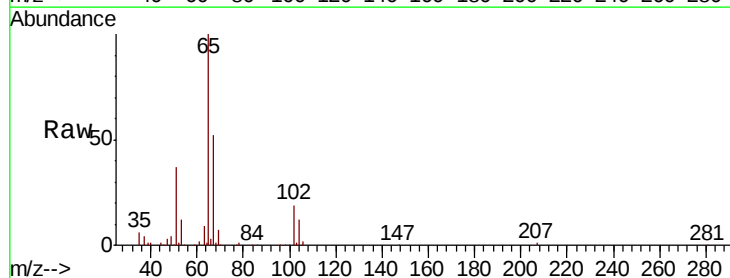
Instrument :
MSVOA_W
ClientSampleId :
RB48380RT

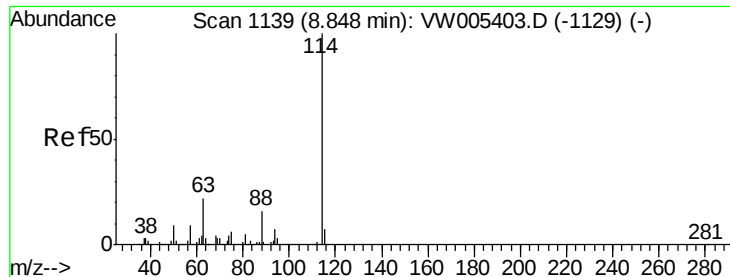
Tgt Ion: 56 Resp: 3194
Ion Ratio Lower Upper
56 100
69 200.4 27.2 40.8#
84 156.3 66.7 100.1#



#33
1,2-Dichloroethane-d4
Concen: 50.485 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VW005458.D
Acq: 18 Sep 2018 04:10

Tgt Ion: 65 Resp: 75420
Ion Ratio Lower Upper
65 100
67 52.7 0.0 100.6

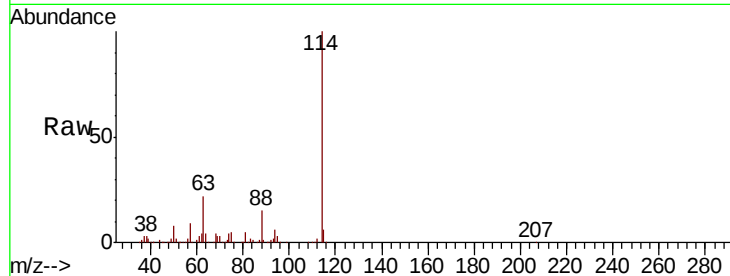




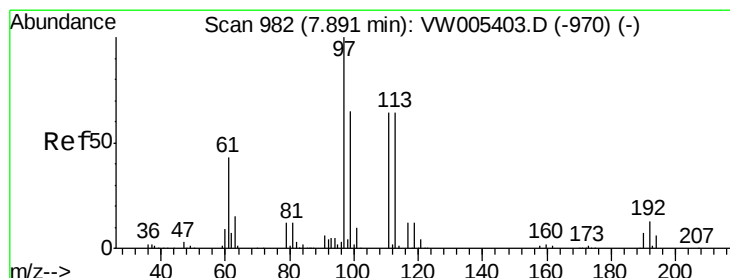
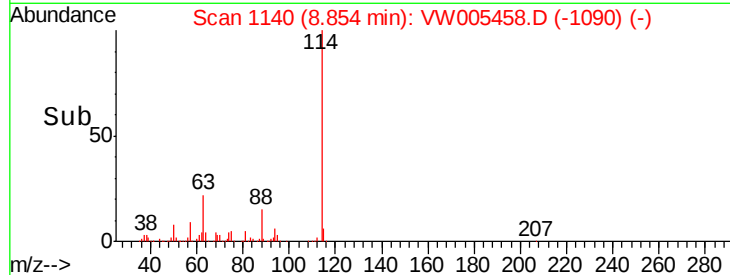
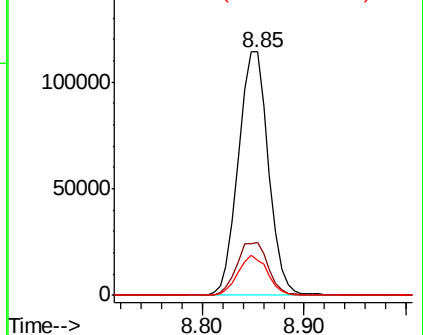
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1140
 Delta R.T. 0.01 min
 Lab File: VW005458.D
 Acq: 18 Sep 2018 04:10

Instrument :
 MSVOA_W
 ClientSampleId :
 RB48380RT

Tgt Ion:114 Resp: 234454
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.4
 88 14.5 0.0 31.8

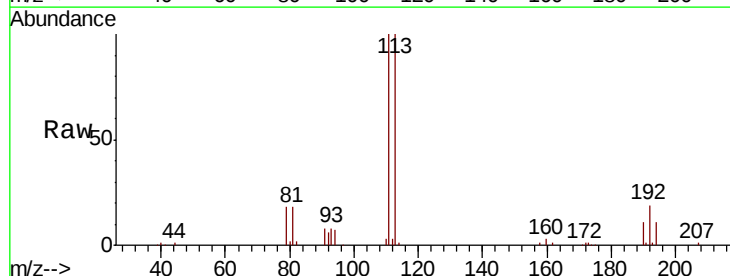


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

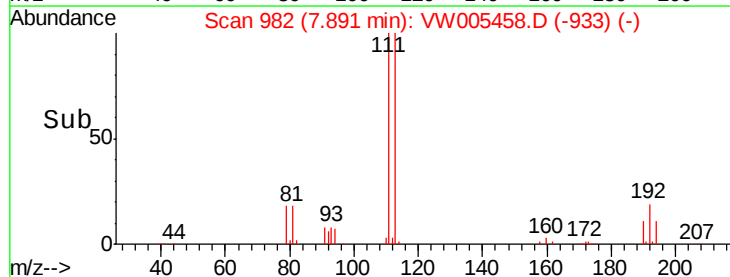
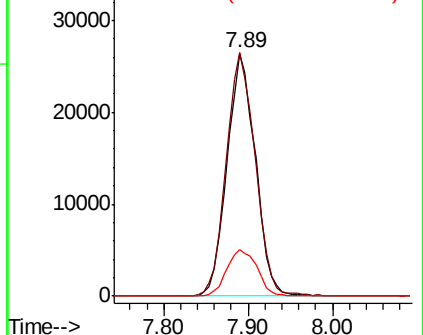


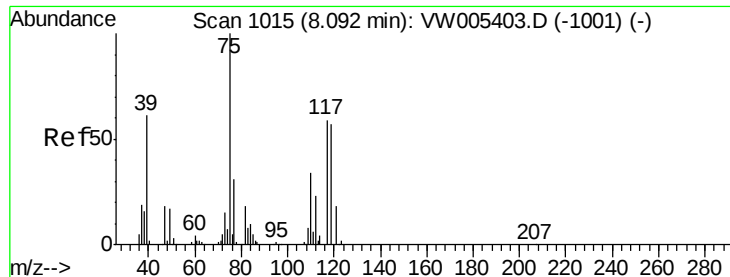
#35
 Dibromofluoromethane
 Concen: 45.886 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW005458.D
 Acq: 18 Sep 2018 04:10

Tgt Ion:113 Resp: 60320
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.3 123.5
 192 20.5 16.5 24.7



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: 5.167 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.13 min

Lab File: VW005458.D

Acq: 18 Sep 2018 04:10

Instrument :

MSVOA_W

ClientSampleId :

RB48380RT

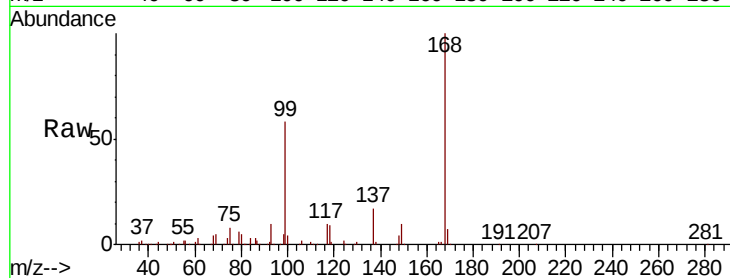
Tgt Ion: 75 Resp: 11464

Ion Ratio Lower Upper

75 100

110 9.5 16.8 50.4#

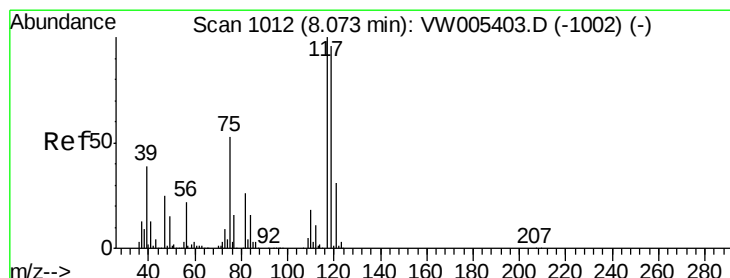
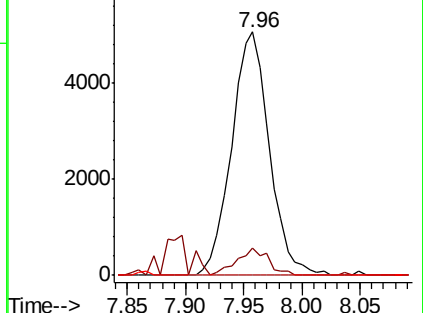
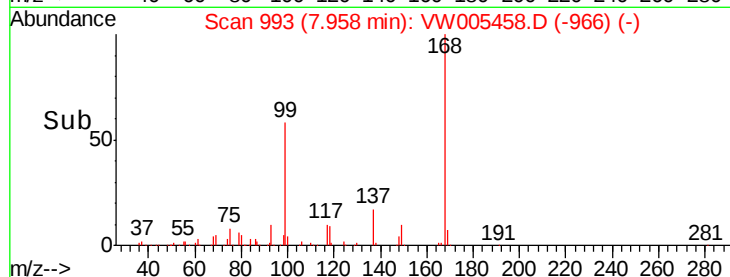
77 0.0 24.2 36.4#



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: 6.135 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005458.D

Acq: 18 Sep 2018 04:10

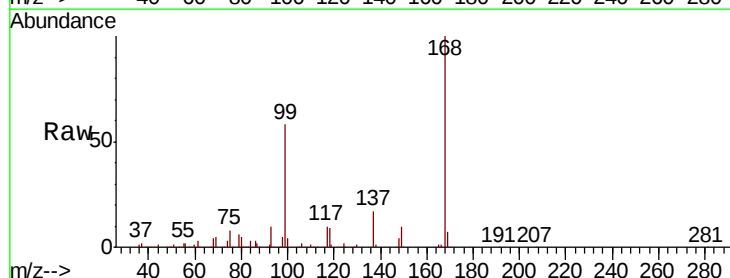
Tgt Ion: 117 Resp: 14184

Ion Ratio Lower Upper

117 100

119 6.2 76.8 115.2#

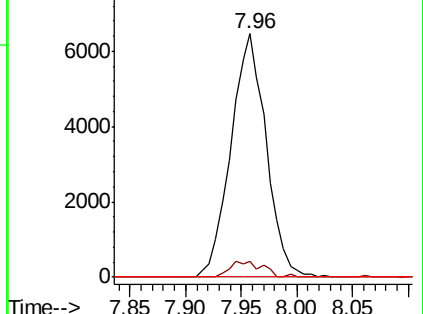
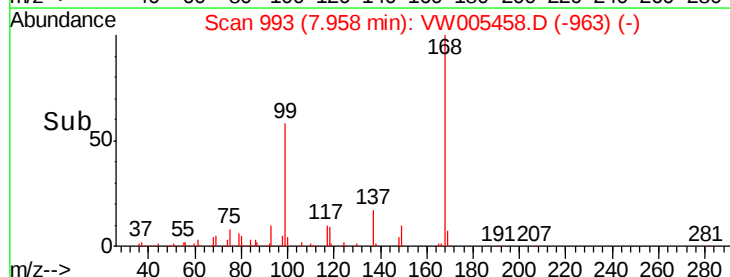
121 0.0 24.7 37.1#

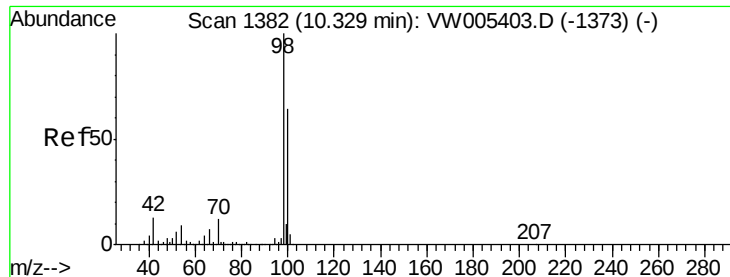


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 35.870 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005458.D

Acq: 18 Sep 2018 04:10

Instrument :

MSVOA_W

ClientSampled :

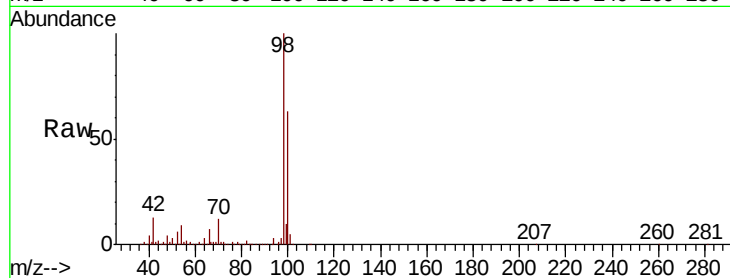
RB48380RT

Tgt Ion: 98 Resp: 215942

Ion Ratio Lower Upper

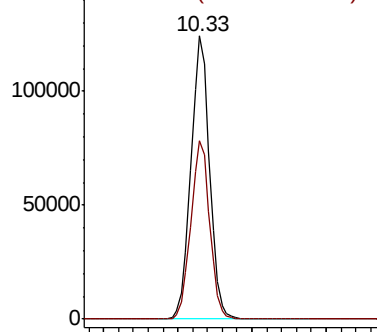
98 100

100 63.8 51.4 77.0

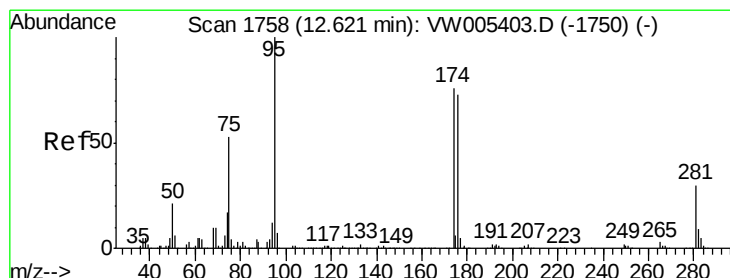
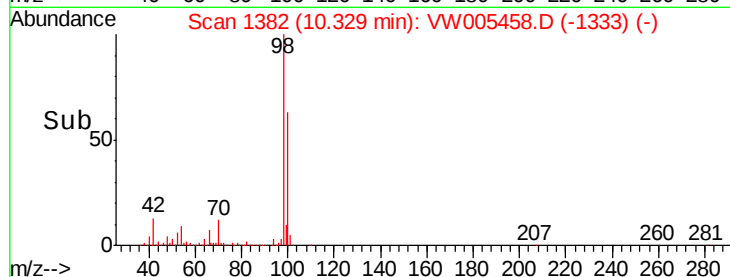


Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



Time-->



#62

4-Bromofluorobenzene

Concen: 32.965 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW005458.D

Acq: 18 Sep 2018 04:10

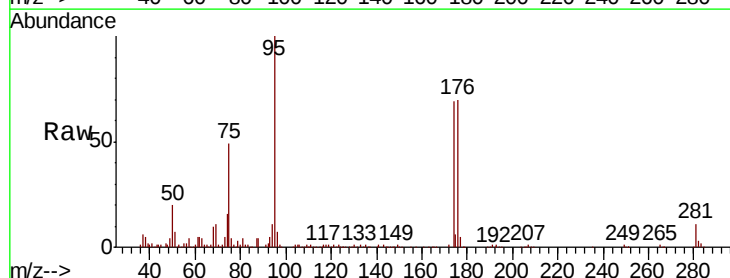
Tgt Ion: 95 Resp: 72766

Ion Ratio Lower Upper

95 100

174 75.1 0.0 161.2

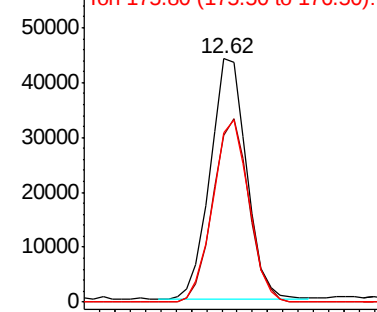
176 75.1 0.0 156.6



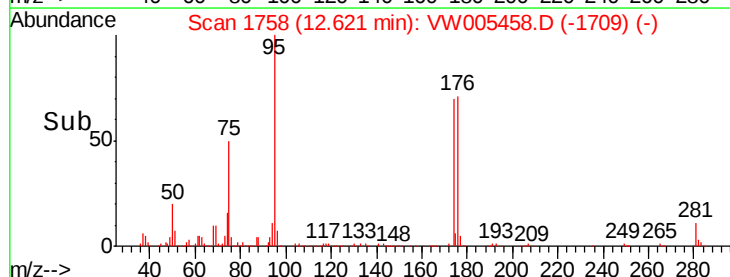
Abundance Ion 94.90 (94.60 to 95.60): VW

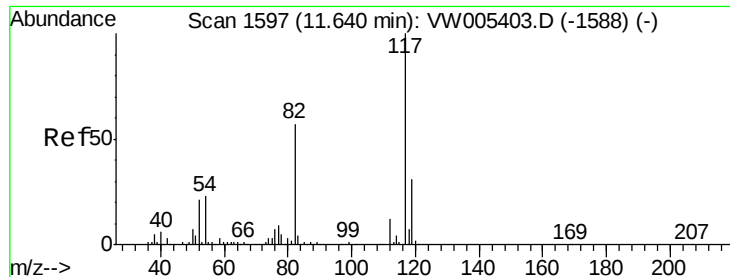
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

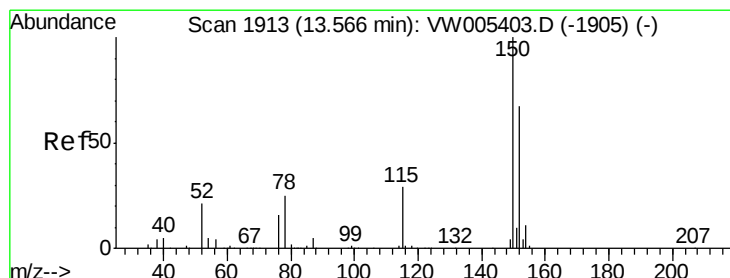
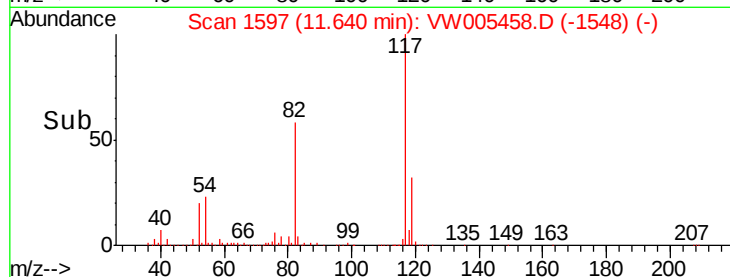
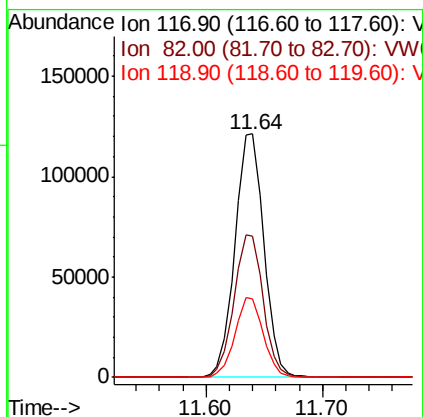
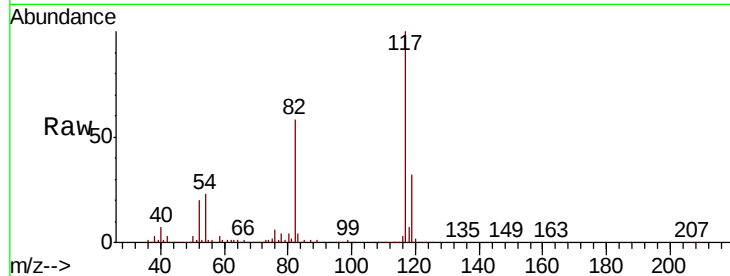




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VW005458.D
Acq: 18 Sep 2018 04:10

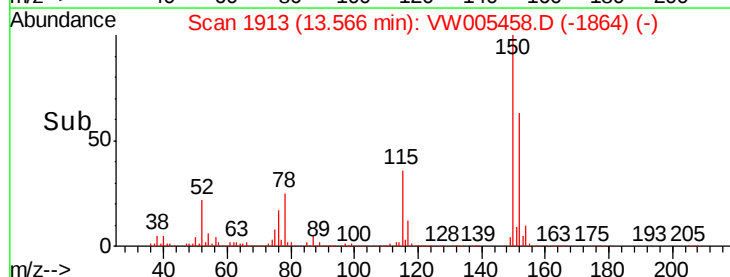
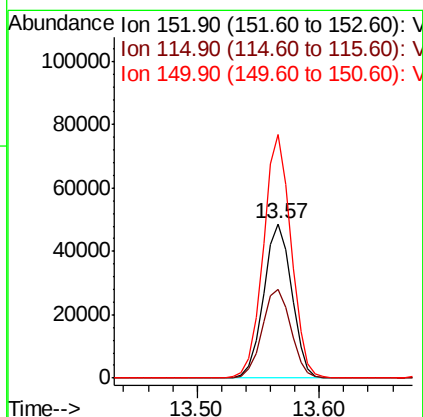
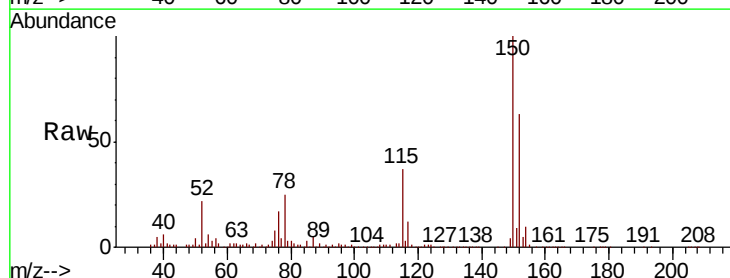
Instrument :
MSVOA_W
ClientSampleId :
RB48380RT

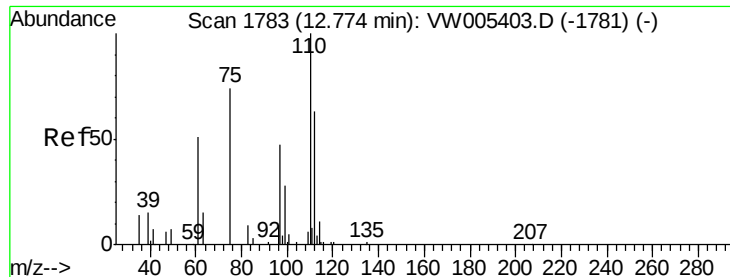
Tgt Ion:117 Resp: 211213
Ion Ratio Lower Upper
117 100
82 57.9 45.9 68.9
119 32.2 24.8 37.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.00 min
Lab File: VW005458.D
Acq: 18 Sep 2018 04:10

Tgt Ion:152 Resp: 77677
Ion Ratio Lower Upper
152 100
115 58.7 29.5 88.5
150 155.7 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 57.089 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005458.D

Acq: 18 Sep 2018 04:10

Instrument :

MSVOA_W

ClientSampleId :

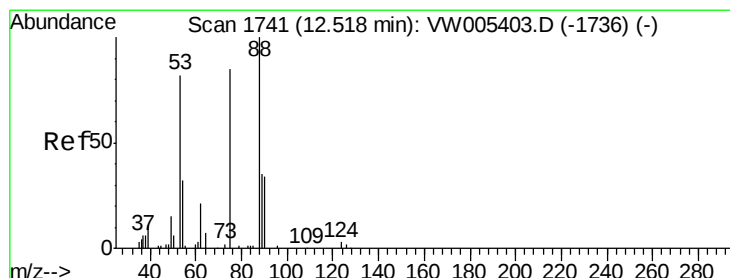
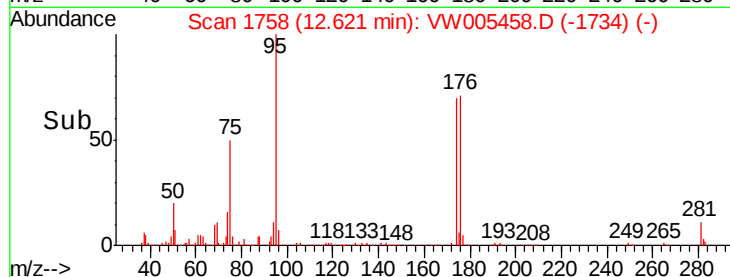
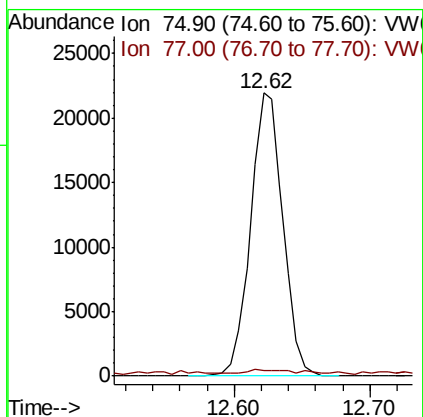
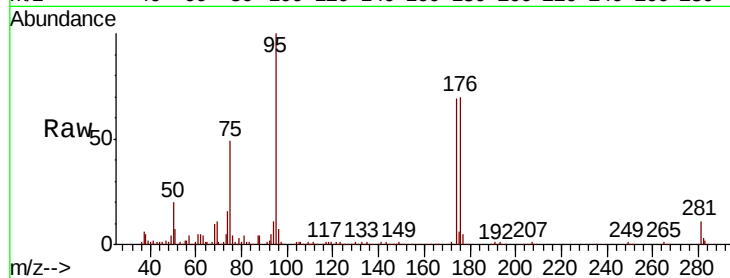
RB48380RT

Tgt Ion: 75 Resp: 36473

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 148.093 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005458.D

Acq: 18 Sep 2018 04:10

Tgt Ion: 75 Resp: 36473

Ion Ratio Lower Upper

75 100

53 0.6 83.2 124.8#

89 0.4 36.6 54.8#

