

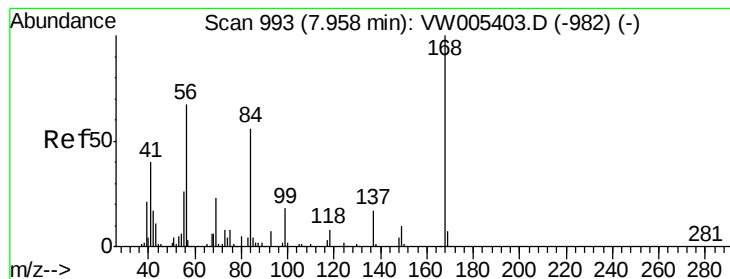
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091718\
 Data File : VW005465.D
 Acq On : 18 Sep 2018 07:08
 Operator : SY/AP
 Sample : J4952-02RE
 Misc : 4.20G/5ML/MSVOA_W/SOIL
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 161-20RE

Quant Time: Sep 18 08:30:15 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	276560	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	453494	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	413621	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	177648	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.32	65	129918	45.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.52%	
35) Dibromofluoromethane	7.89	113	107785	42.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.78%	
50) Toluene-d8	10.33	98	464395	39.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	79.76%	
62) 4-Bromofluorobenzene	12.62	95	159641	37.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	74.78%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.00	85	311	Below Cal	#	42
5) Bromomethane	2.79	94	206	Below Cal	#	50
8) Diethyl Ether	3.69	74	2510	2.085	ug/l	82
10) Methyl Iodide	4.28	142	51	4.067	ug/l #	38
11) Tert butyl alcohol	5.23	59	63	Below Cal	#	71
13) Acrolein	3.67	56	49	Below Cal	#	1
16) Acetone	4.15	43	592	Below Cal	#	46
20) Methylene Chloride	4.92	84	12645	Below Cal		94
29) Tetrahydrofuran	7.56	42	879	1.998	ug/l #	62
31) Cyclohexane	7.95	56	6125	1.337	ug/l #	1
36) 1,1-Dichloropropene	7.96	75	21683	5.052	ug/l #	52
38) Carbon Tetrachloride	7.96	117	27558	6.162	ug/l #	16
75) 1,1,2,2-Tetrachloroethane	12.72	83	30136	16.575	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	79577	54.463	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	79577	141.281	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

Instrument :

MSVOA_W

ClientSampleId :

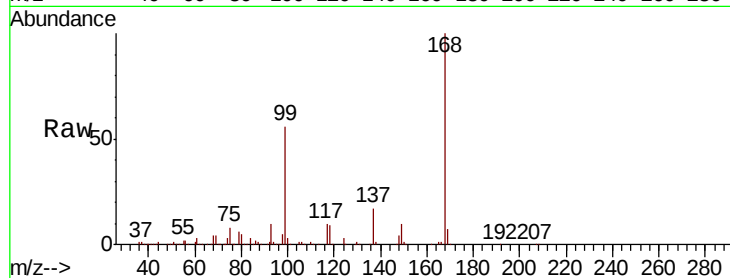
161-20RE

Tgt Ion:168 Resp: 276560

Ion Ratio Lower Upper

168 100

99 55.9 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

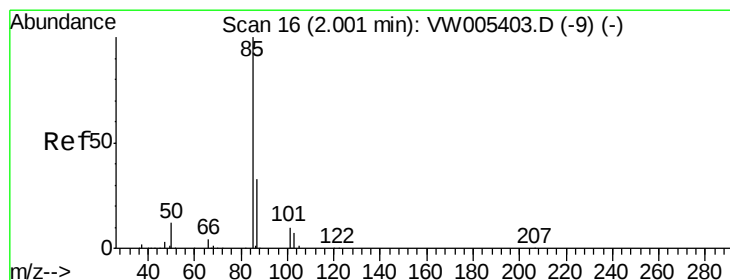
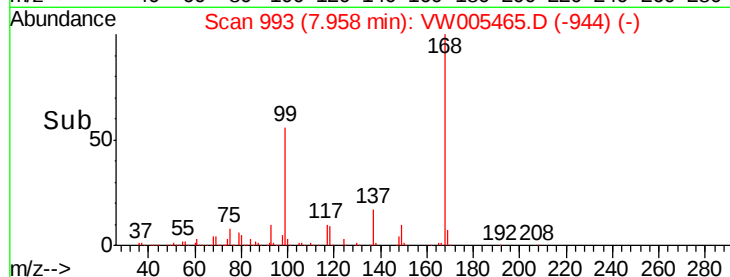
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW005465.D

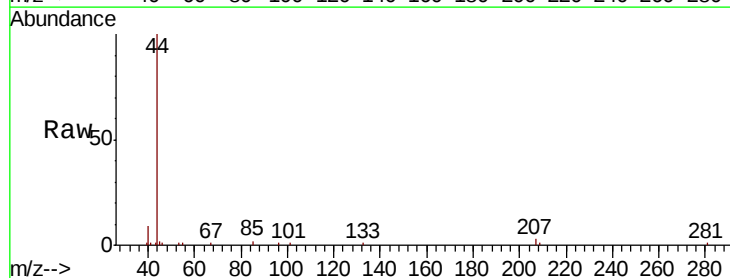
Acq: 18 Sep 2018 07:08

Tgt Ion: 85 Resp: 311

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

250

200

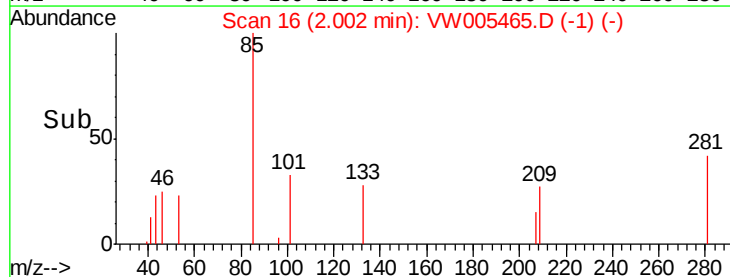
150

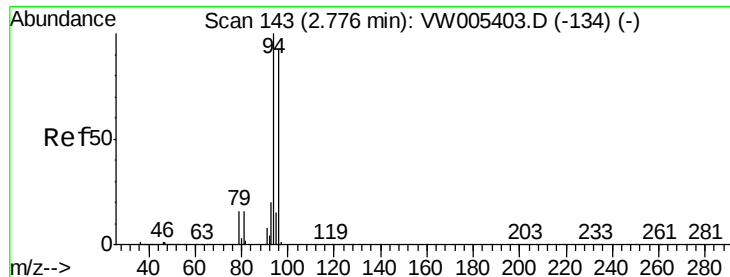
100

50

0

Time--> 1.95 2.00 2.05





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

Instrument :

MSVOA_W

ClientSampleId :

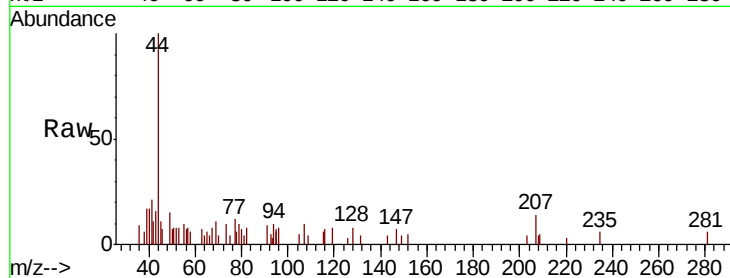
161-20RE

Tgt Ion: 94 Resp: 206

Ion Ratio Lower Upper

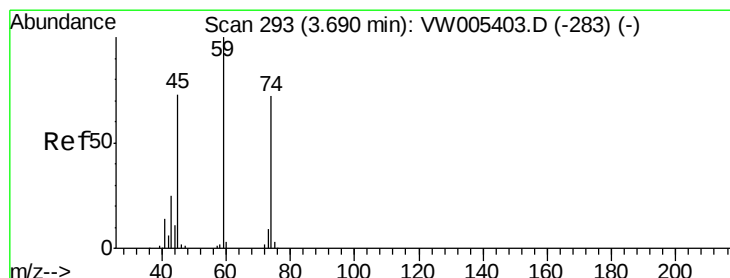
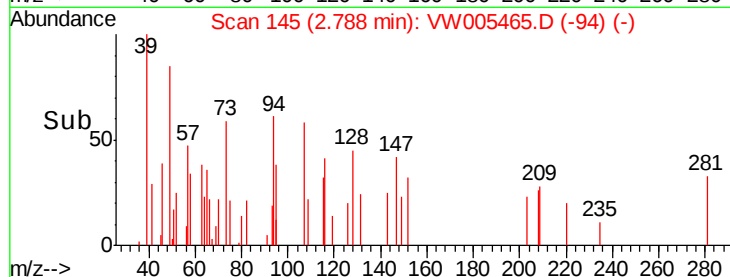
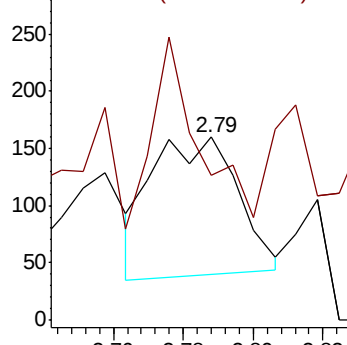
94 100

96 44.8 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#8

Diethyl Ether

Concen: 2.085 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.00 min

Lab File: VW005465.D

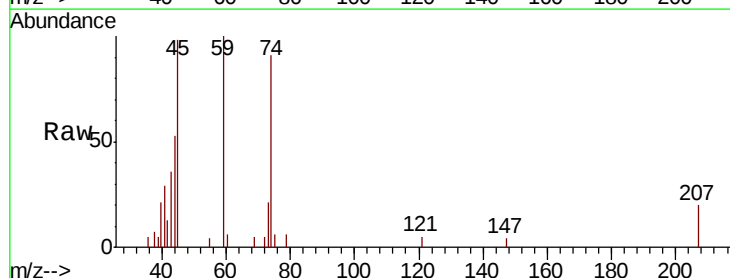
Acq: 18 Sep 2018 07:08

Tgt Ion: 74 Resp: 2510

Ion Ratio Lower Upper

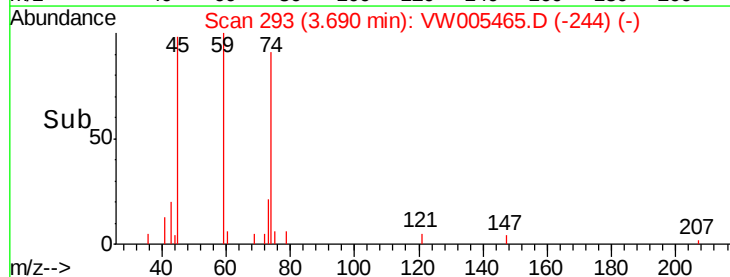
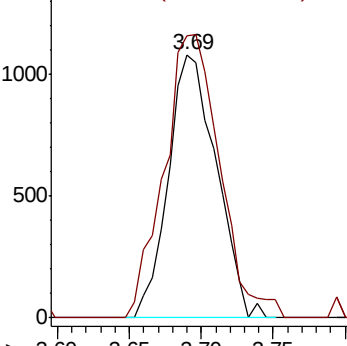
74 100

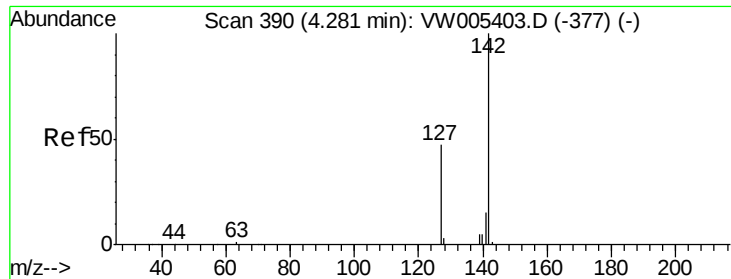
45 124.5 53.1 159.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#10

Methyl Iodide

Concen: 4.067 ug/l

RT: 4.28 min Scan# 390

Delta R.T. 0.00 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

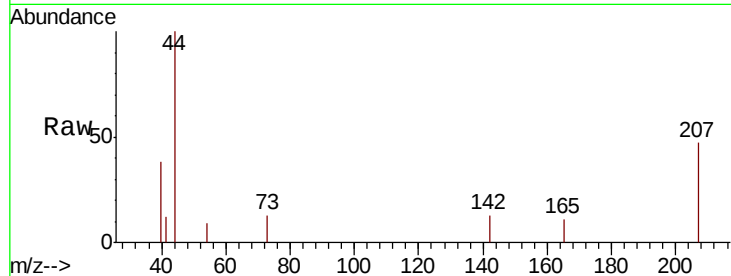
Instrument :

MSVOA_W

ClientSampleId :

161-20RE

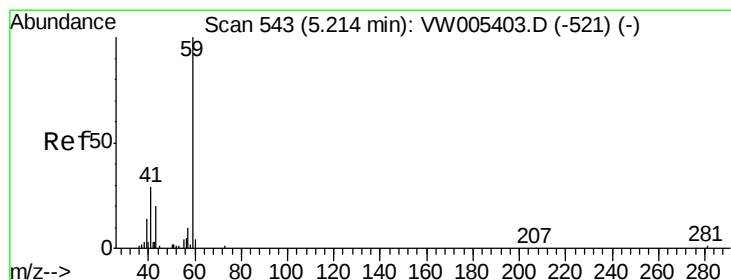
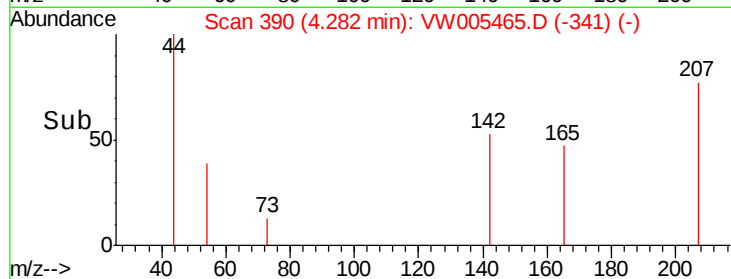
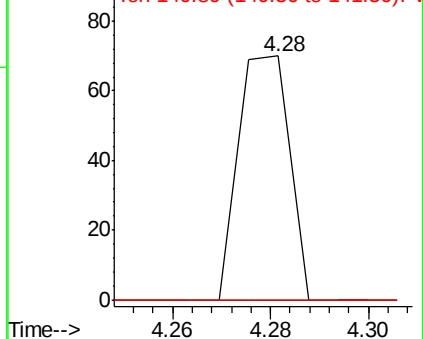
Tgt Ion:	142	Resp:	51
Ion	Ratio	Lower	Upper
142	100		
127	0.0	37.5	56.3#
141	0.0	12.4	18.6#



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

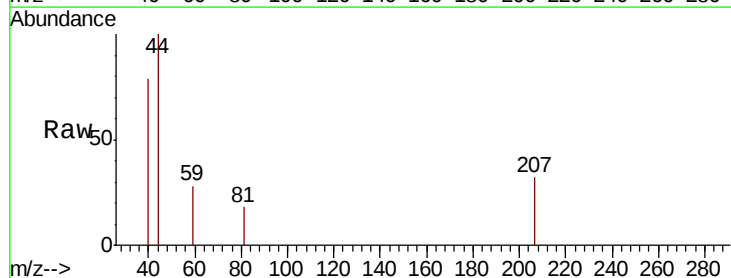
RT: 5.23 min Scan# 545

Delta R.T. 0.01 min

Lab File: VW005465.D

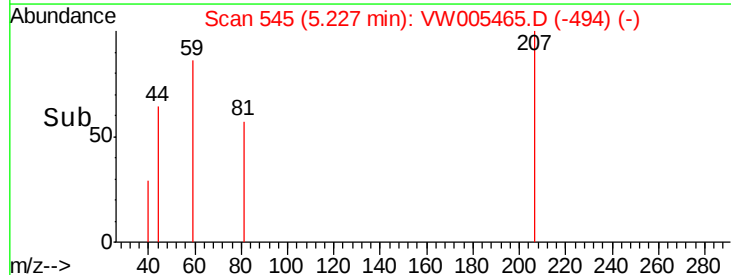
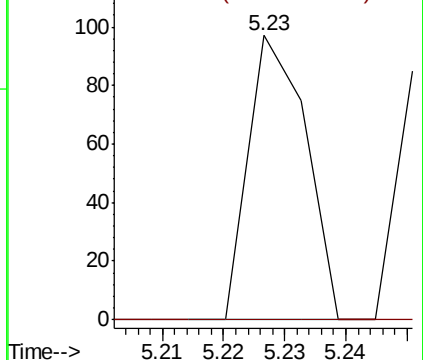
Acq: 18 Sep 2018 07:08

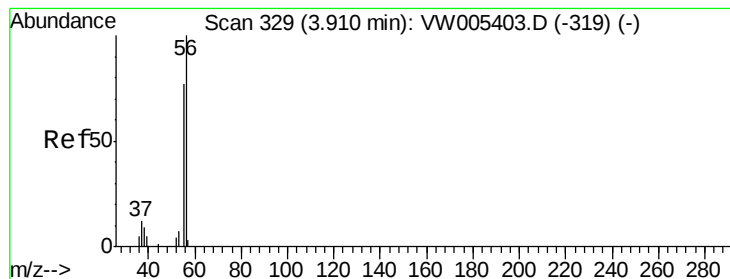
Tgt Ion:	59	Resp:	63
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	13.0#



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: 3.67 min Scan# 289

Delta R.T. -0.24 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

Instrument :

MSVOA_W

ClientSampleId :

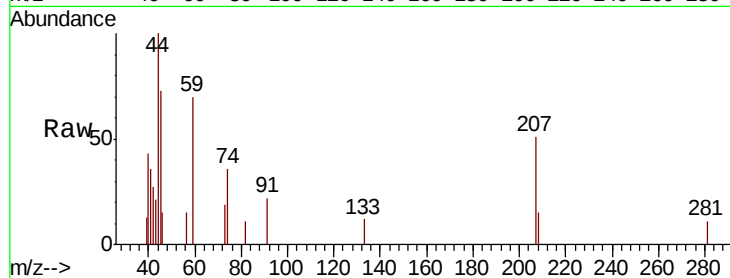
161-20RE

Tgt Ion: 56 Resp: 49

Ion Ratio Lower Upper

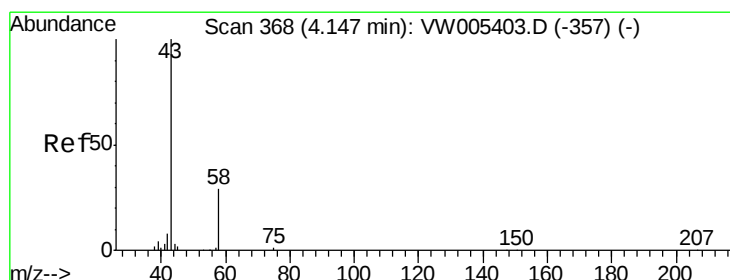
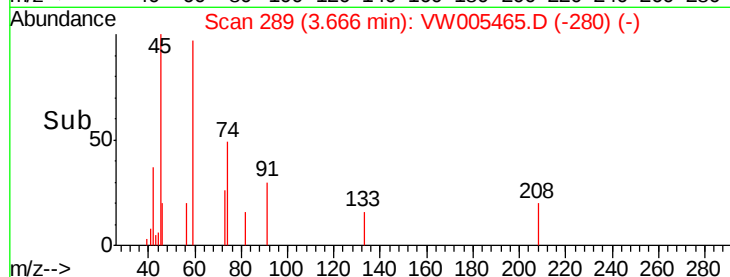
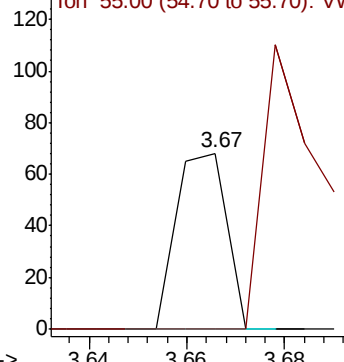
56 100

55 275.5 59.8 89.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: Below Cal

RT: 4.15 min Scan# 369

Delta R.T. 0.01 min

Lab File: VW005465.D

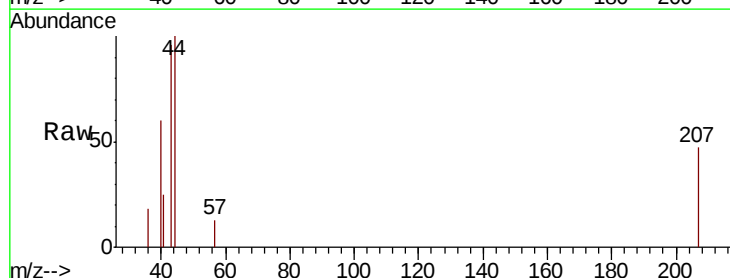
Acq: 18 Sep 2018 07:08

Tgt Ion: 43 Resp: 592

Ion Ratio Lower Upper

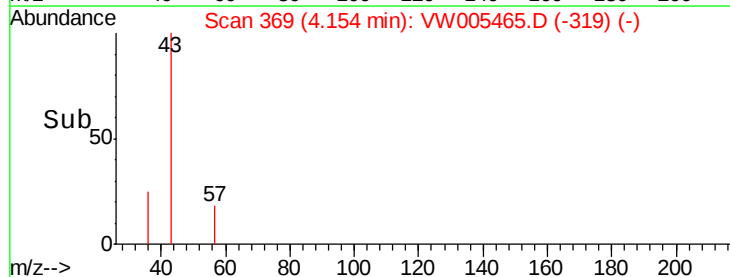
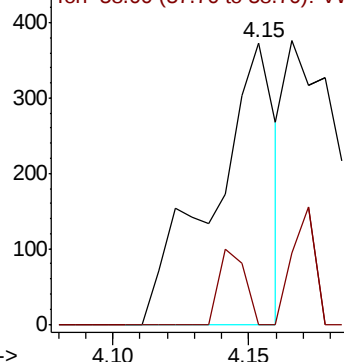
43 100

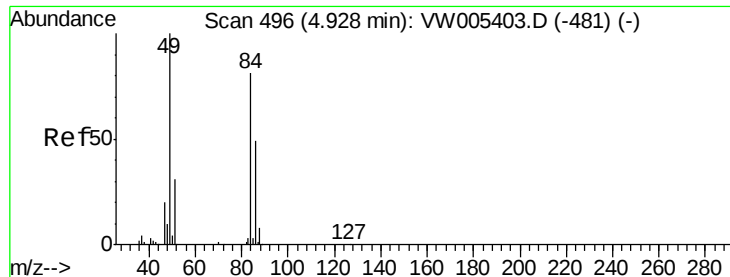
58 0.0 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

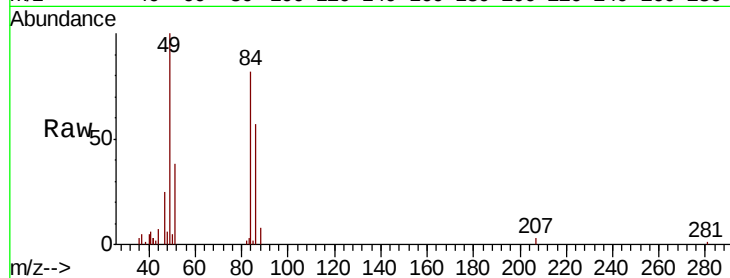




#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 495
Delta R.T. -0.01 min
Lab File: VW005465.D
Acq: 18 Sep 2018 07:08

Instrument :
MSVOA_W
ClientSampleId :
161-20RE

Tgt Ion:	84	Resp:	12645
Ion	Ratio	Lower	Upper
84	100		
49	122.4	99.3	148.9
51	46.5	31.1	46.7
86	69.3	49.1	73.7



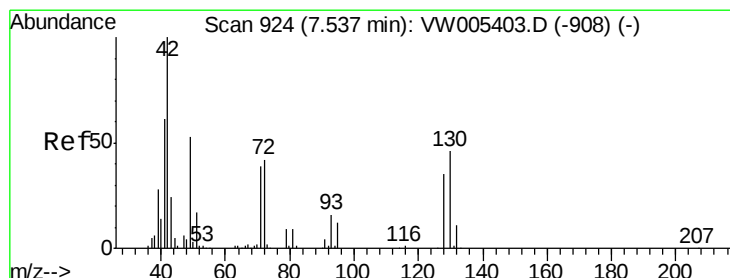
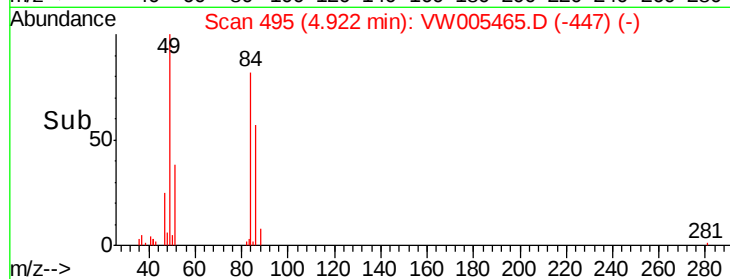
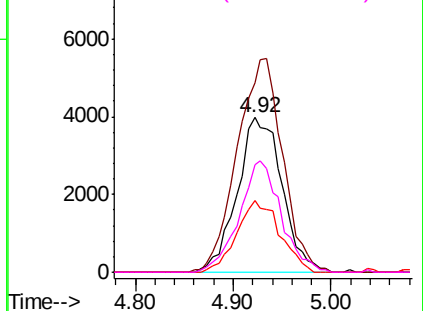
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

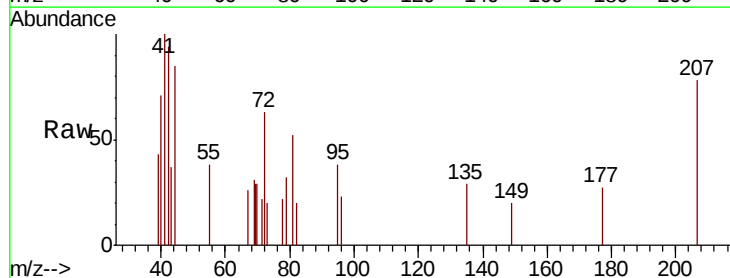
Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#29
Tetrahydrofuran
Concen: 1.998 ug/l
RT: 7.56 min Scan# 927
Delta R.T. 0.02 min
Lab File: VW005465.D
Acq: 18 Sep 2018 07:08

Tgt Ion:	42	Resp:	879
Ion	Ratio	Lower	Upper
42	100		
72	27.0	33.2	49.8#
71	6.1	31.0	46.6#

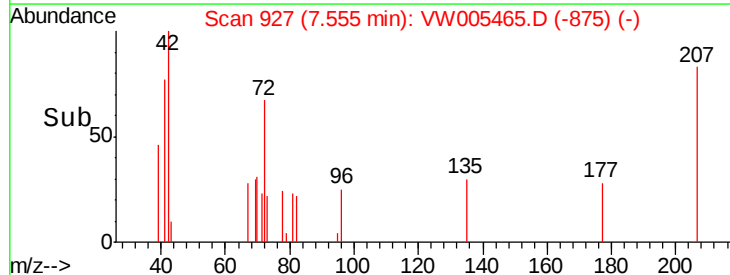
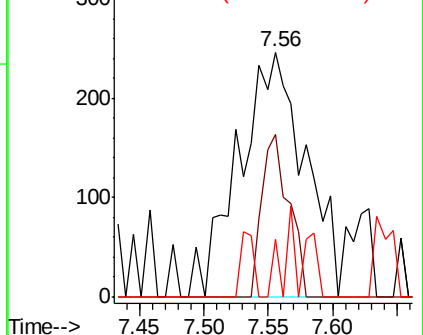


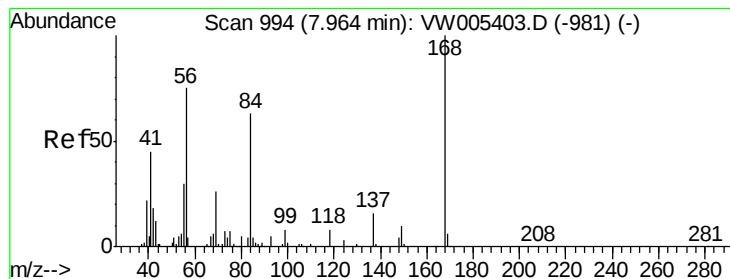
Abundance

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





#31

Cyclohexane

Concen: 1.337 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

Instrument :

MSVOA_W

ClientSampleId :

161-20RE

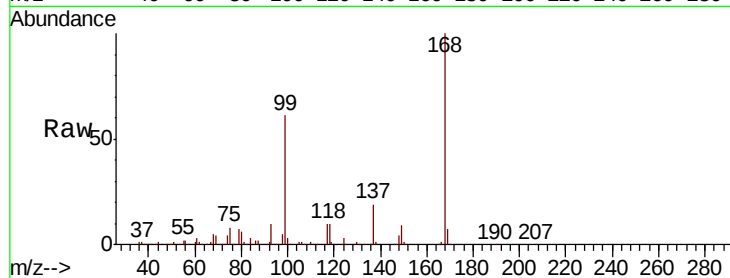
Tgt Ion: 56 Resp: 6125

Ion Ratio Lower Upper

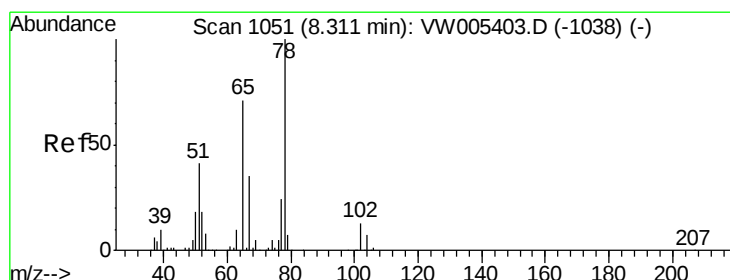
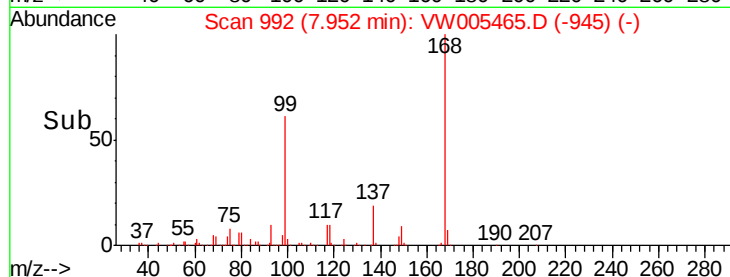
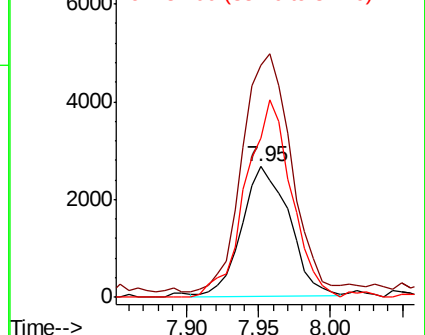
56 100

69 177.0 27.2 40.8#

84 123.6 66.7 100.1#



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: 45.256 ug/l

RT: 8.32 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VW005465.D

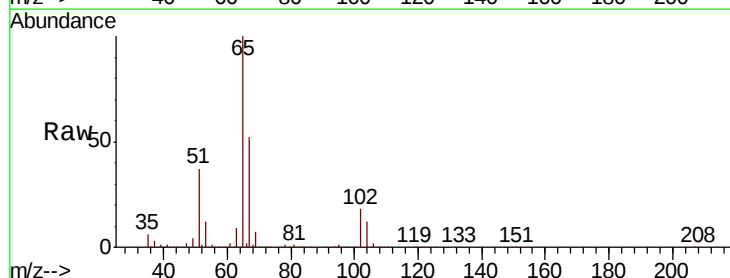
Acq: 18 Sep 2018 07:08

Tgt Ion: 65 Resp: 129918

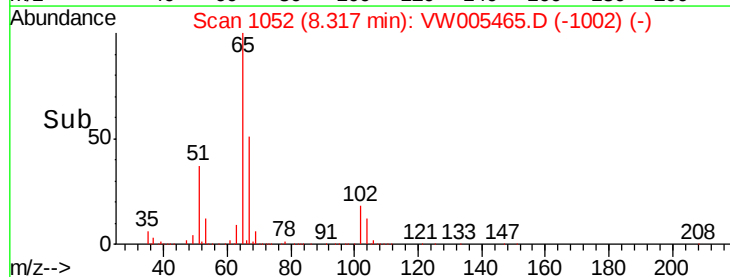
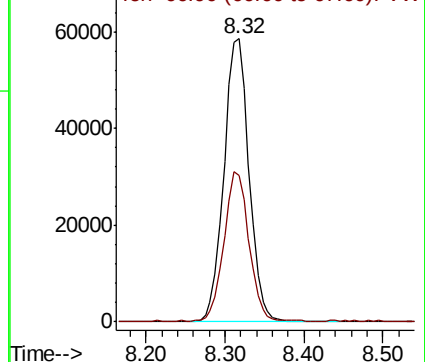
Ion Ratio Lower Upper

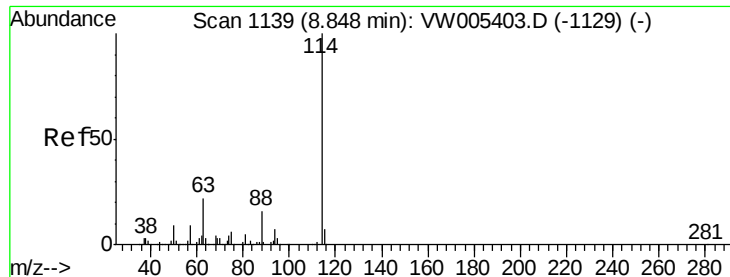
65 100

67 52.3 0.0 100.6



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: 8.85 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

Instrument :

MSVOA_W

ClientSampleId :

161-20RE

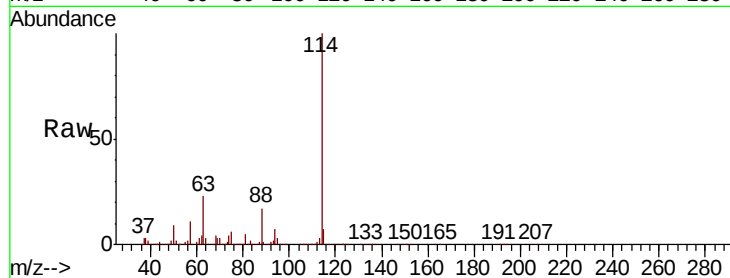
Tgt Ion:114 Resp: 453494

Ion Ratio Lower Upper

114 100

63 22.8 0.0 43.4

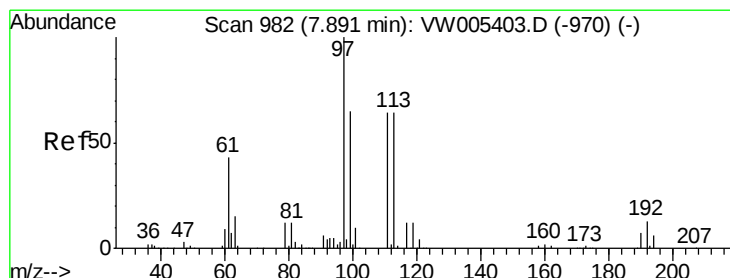
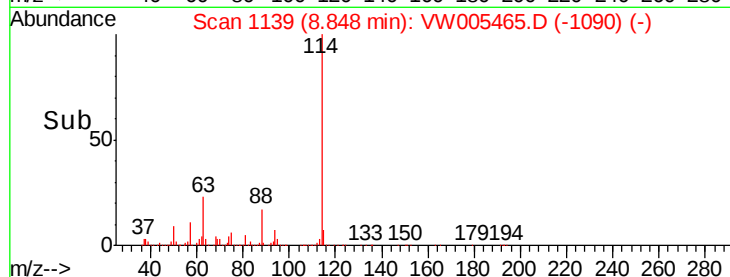
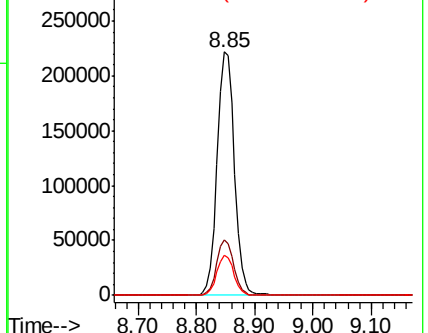
88 16.5 0.0 31.8



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: 42.390 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.00 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

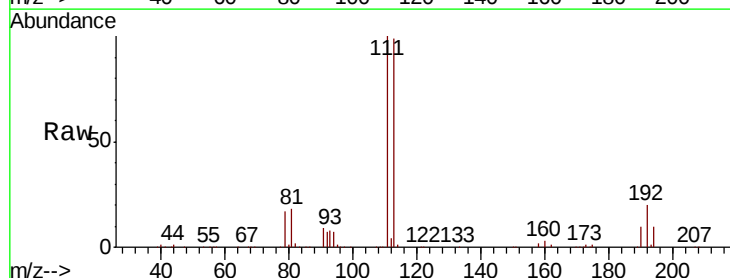
Tgt Ion:113 Resp: 107785

Ion Ratio Lower Upper

113 100

111 103.6 82.3 123.5

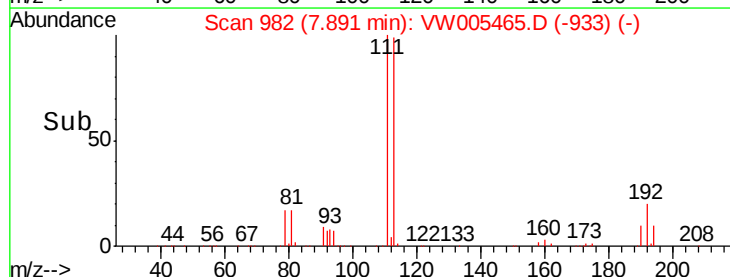
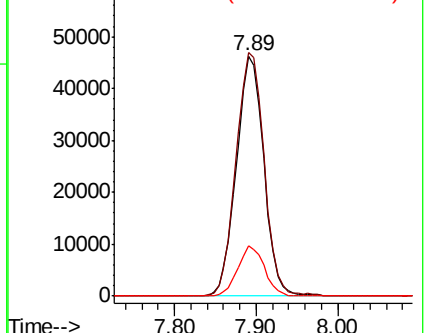
192 20.4 16.5 24.7

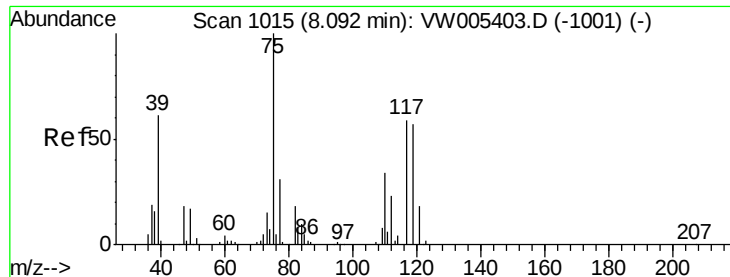


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

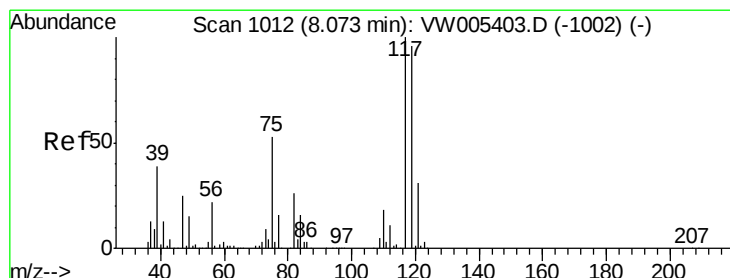
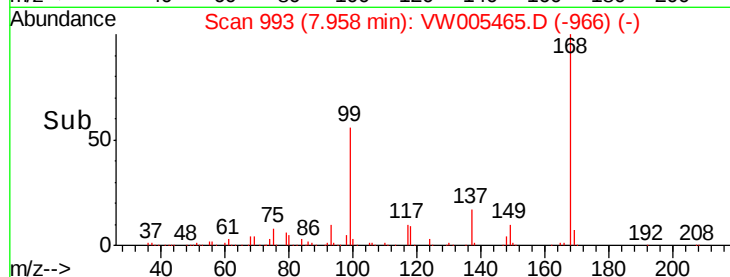
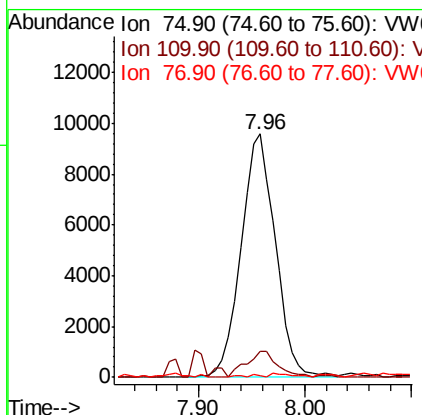
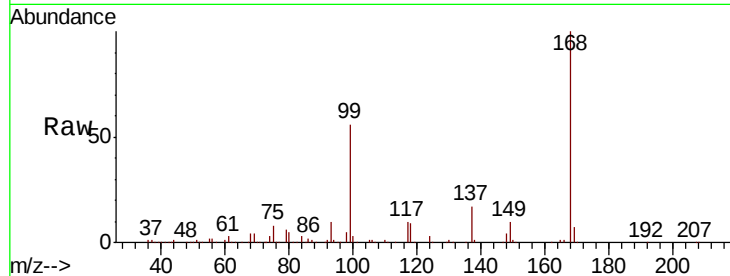




#36
 1,1-Dichloropropene
 Concen: 5.052 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW005465.D
 Acq: 18 Sep 2018 07:08

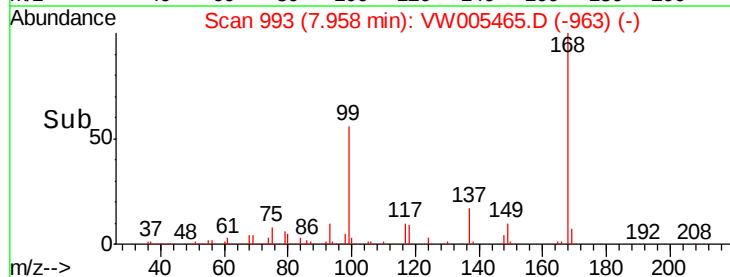
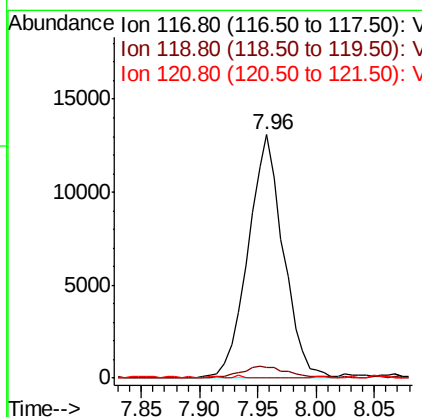
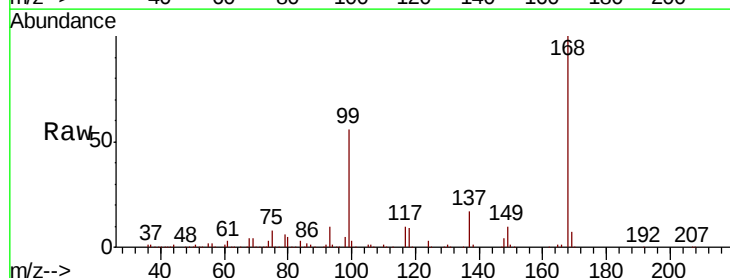
Instrument :
 MSVOA_W
 ClientSampleId :
 161-20RE

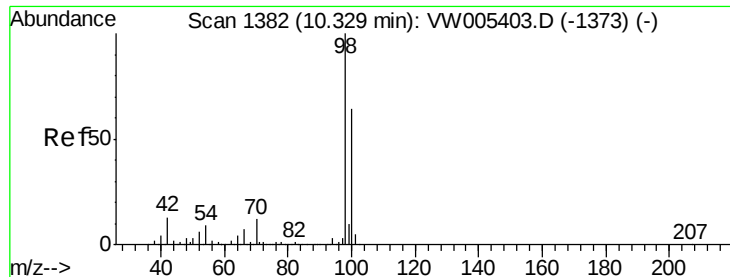
Tgt Ion: 75 Resp: 21683
 Ion Ratio Lower Upper
 75 100
 110 9.7 16.8 50.4#
 77 0.3 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 6.162 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.12 min
 Lab File: VW005465.D
 Acq: 18 Sep 2018 07:08

Tgt Ion: 117 Resp: 27558
 Ion Ratio Lower Upper
 117 100
 119 4.6 76.8 115.2#
 121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 39.882 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

Instrument :

MSVOA_W

ClientSampleId :

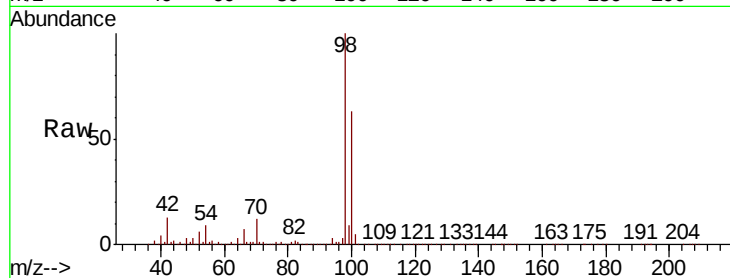
161-20RE

Tgt Ion: 98 Resp: 464395

Ion Ratio Lower Upper

98 100

100 63.5 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.33

250000

200000

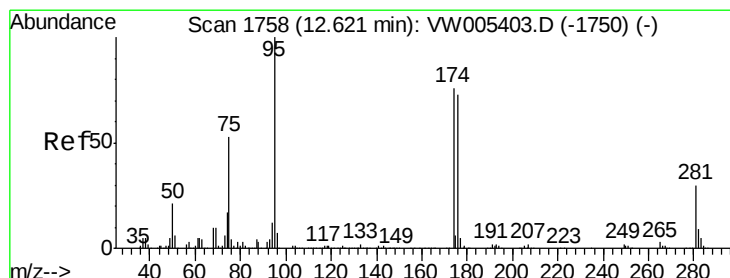
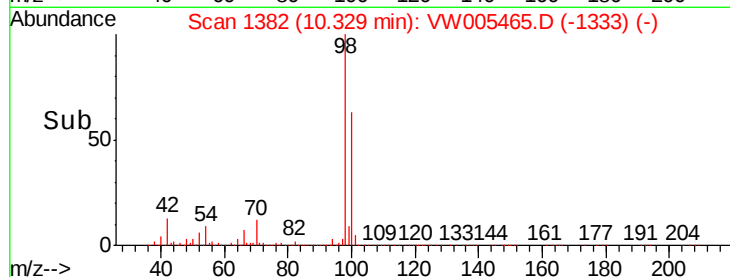
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 37.390 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

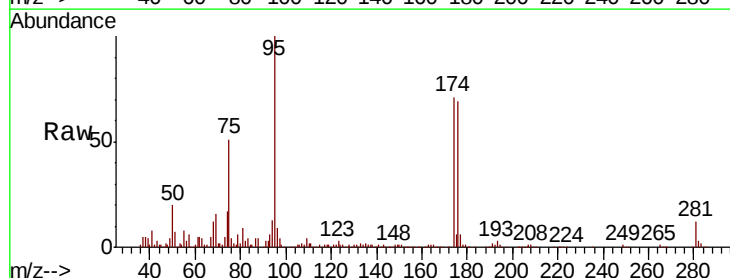
Tgt Ion: 95 Resp: 159641

Ion Ratio Lower Upper

95 100

174 75.9 0.0 161.2

176 73.4 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

12.62

120000

100000

80000

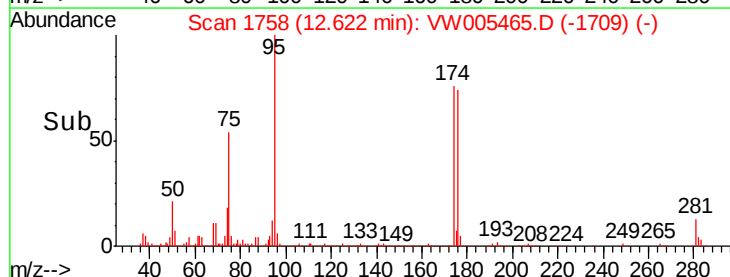
60000

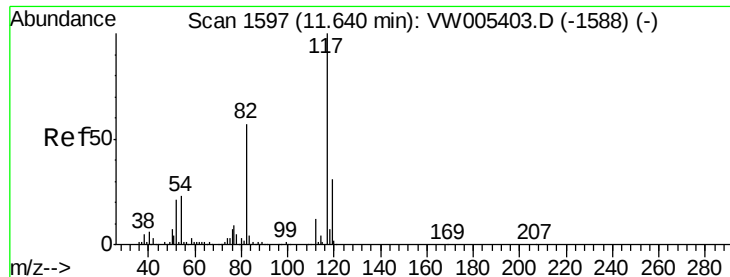
40000

20000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

Instrument :

MSVOA_W

ClientSampleId :

161-20RE

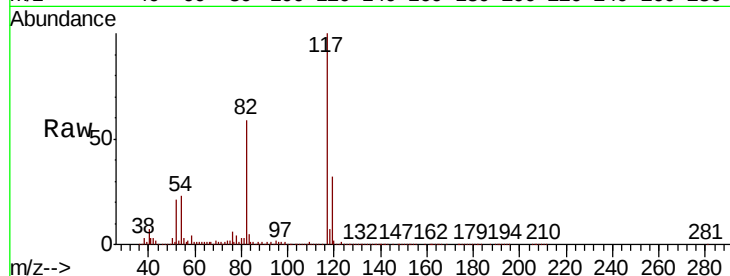
Tgt Ion:117 Resp: 413621

Ion Ratio Lower Upper

117 100

82 58.3 45.9 68.9

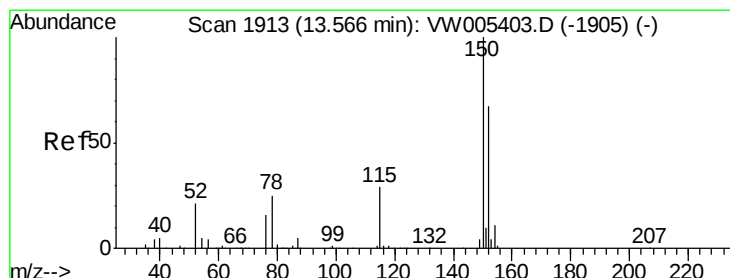
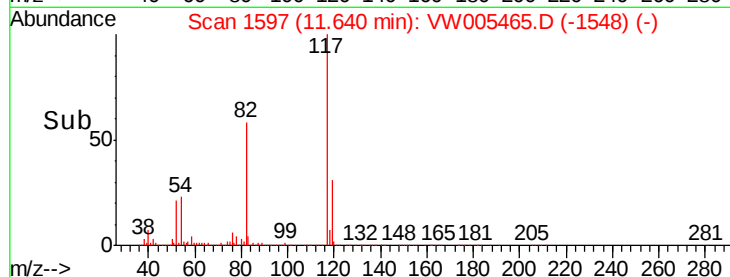
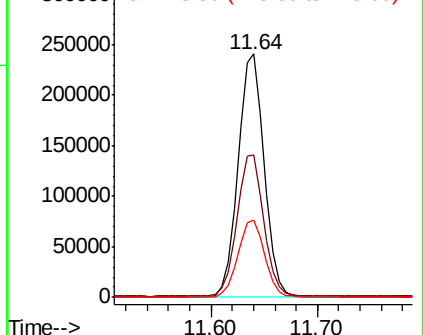
119 31.4 24.8 37.2



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: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

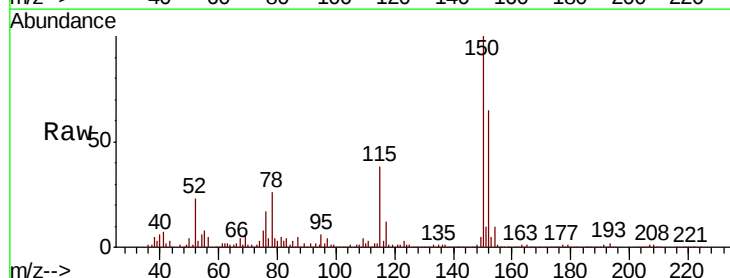
Tgt Ion:152 Resp: 177648

Ion Ratio Lower Upper

152 100

115 58.0 29.5 88.5

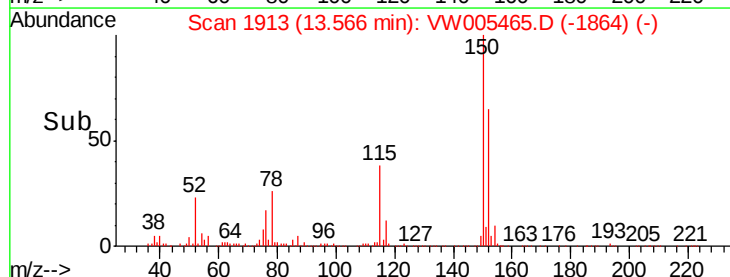
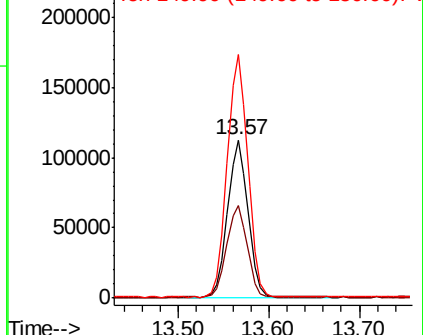
150 153.2 0.0 345.6

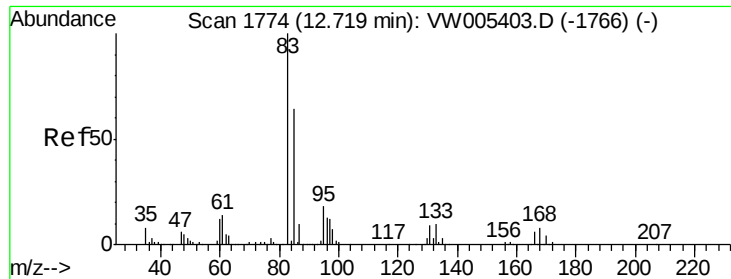


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: 16.575 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

Instrument :

MSVOA_W

ClientSampleId :

161-20RE

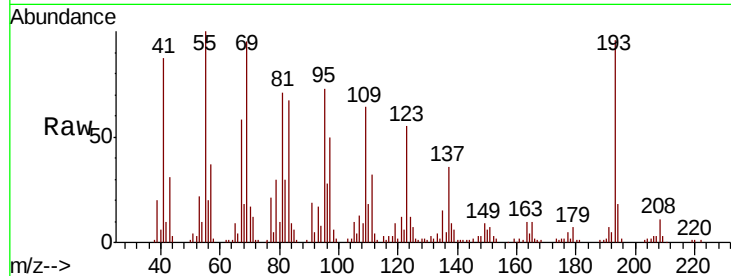
Tgt Ion: 83 Resp: 30136

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

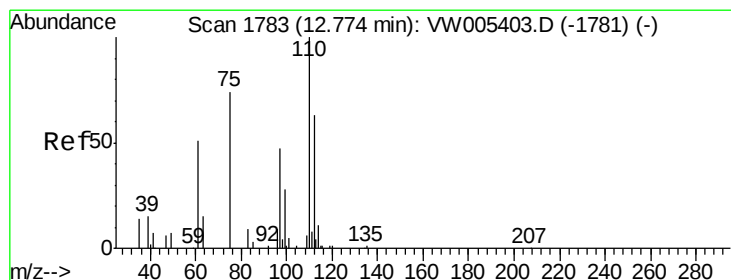
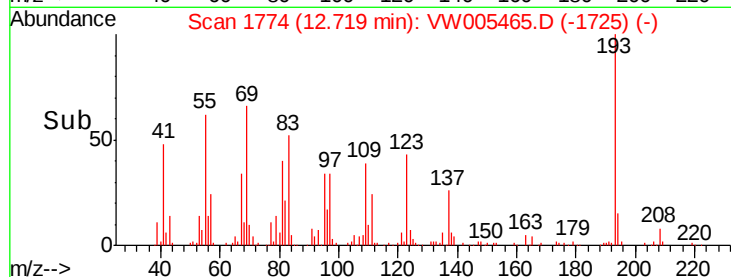
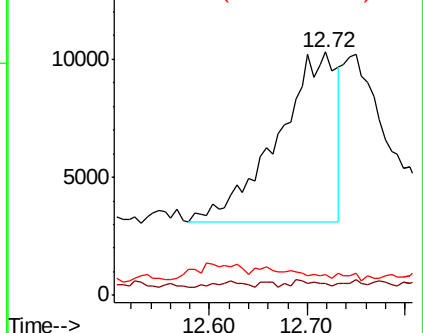
85 0.0 31.6 95.0#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 54.463 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005465.D

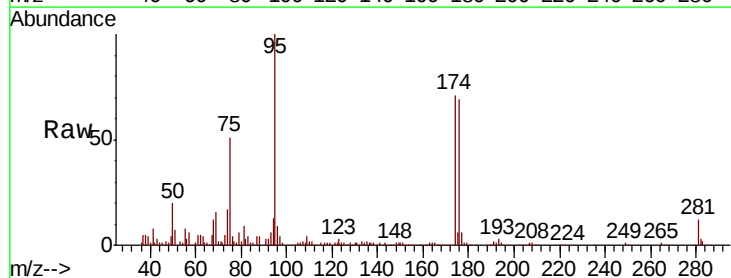
Acq: 18 Sep 2018 07:08

Tgt Ion: 75 Resp: 79577

Ion Ratio Lower Upper

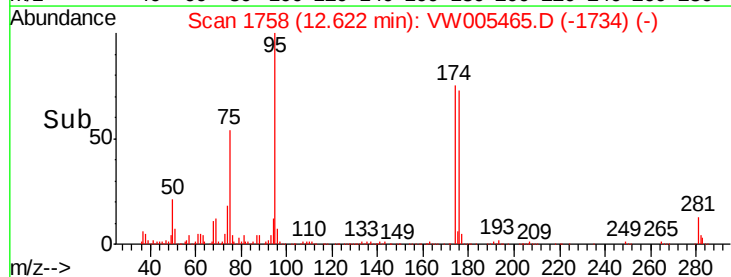
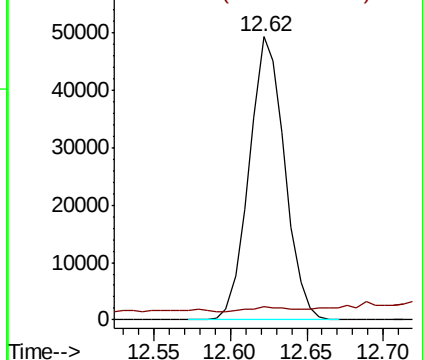
75 100

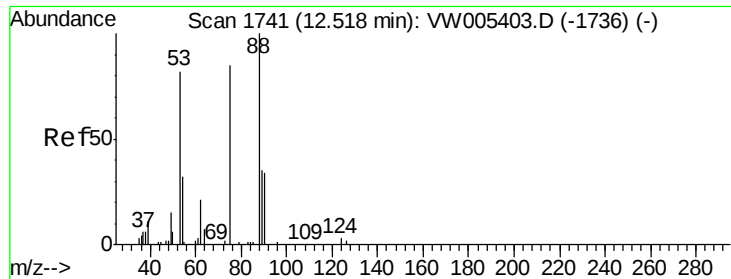
77 2.0 0.0 0.0#



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: 141.281 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005465.D

Acq: 18 Sep 2018 07:08

Instrument :

MSVOA_W

ClientSampleId :

161-20RE

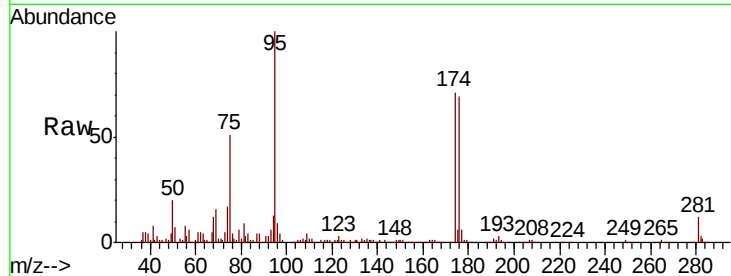
Tgt Ion: 75 Resp: 79577

Ion Ratio Lower Upper

75 100

53 0.9 83.2 124.8#

89 0.2 36.6 54.8#



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

