

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091718\
 Data File : VW005467.D
 Acq On : 18 Sep 2018 07:59
 Operator : SY/AP
 Sample : J4936-19
 Misc : 2.54G/5ML/MSVOA_W/SOIL
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 138-KV-2

Quant Time: Sep 18 08:30:38 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

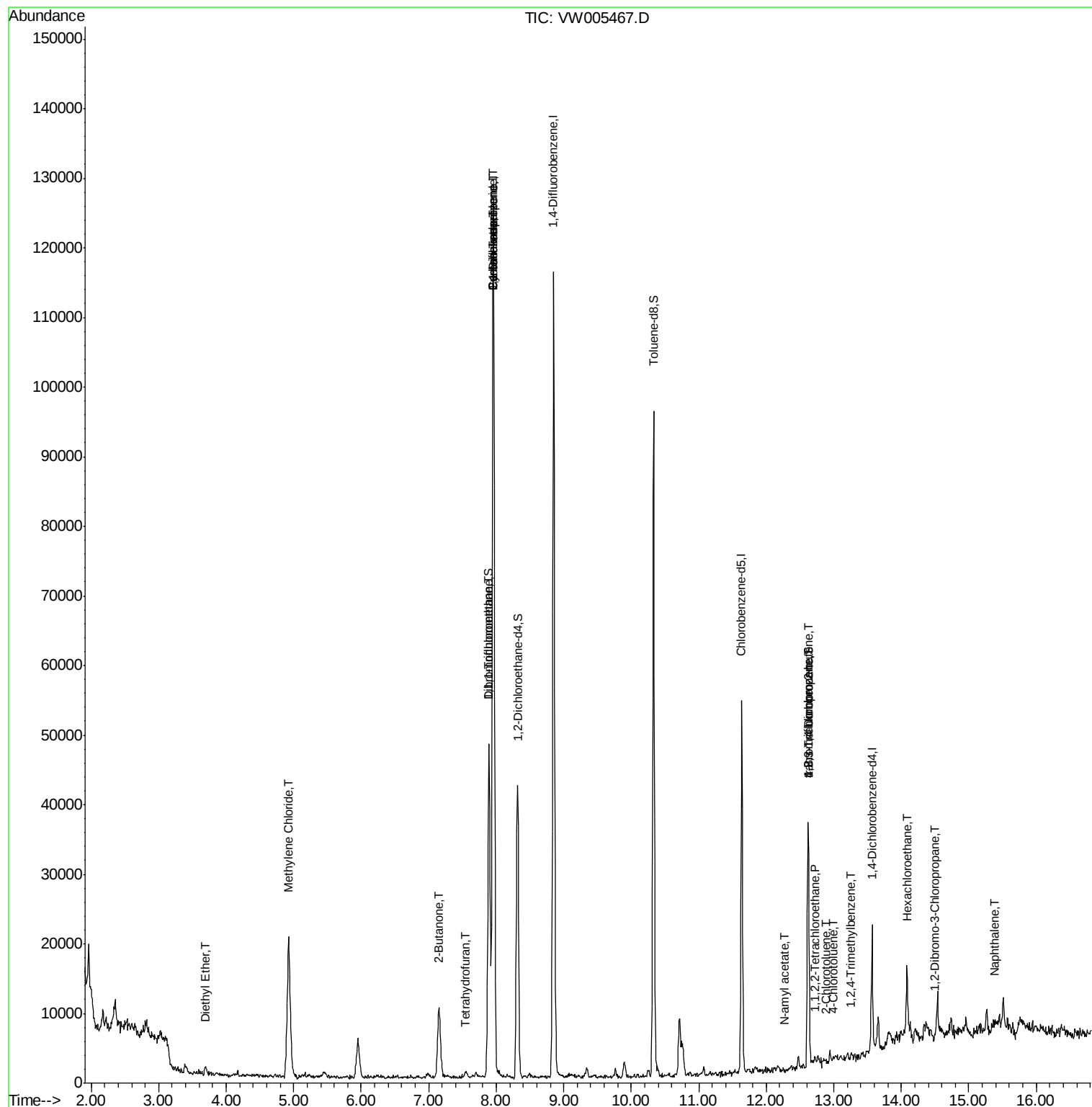
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	92787	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	95520	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	28667	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	4438	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	33993	35.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.58%	
35) Dibromofluoromethane	7.89	113	33745	63.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.02%	
50) Toluene-d8	10.33	98	62864	25.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	51.26%	
62) 4-Bromofluorobenzene	12.62	95	5610	6.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	12.48%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.00	85	663	Below Cal		87
5) Bromomethane	2.78	94	329	Below Cal	#	40
8) Diethyl Ether	3.70	74	567	1.404 ug/l	#	1
11) Tert butyl alcohol	5.20	59	115	Below Cal	#	71
13) Acrolein	3.76	56	19	Below Cal	#	12
16) Acetone	4.14	43	280	Below Cal	#	46
20) Methylene Chloride	4.93	84	13871	9.915 ug/l		95
25) 2-Butanone	7.15	43	788	3.401 ug/l	#	49
29) Tetrahydrofuran	7.53	42	218	1.477 ug/l	#	46
31) Cyclohexane	7.96	56	2373	1.544 ug/l	#	31
32) 1,1,1-Trichloroethane	7.88	97	2491	1.623 ug/l	#	47
36) 1,1-Dichloropropene	7.96	75	7728	8.549 ug/l	#	50
38) Carbon Tetrachloride	7.96	117	9356	9.932 ug/l	#	18
74) N-amyl acetate	12.27	43	104	1.585 ug/l	#	44
75) 1,1,2,2-Tetrachloroethane	12.71	83	94	2.070 ug/l	#	26
76) 1,2,3-Trichloropropane	12.62	75	3049	83.531 ug/l	#	100
79) 2-Chlorotoluene	12.89	91	241	1.087 ug/l	#	42
81) trans-1,4-Dichloro-2-buten	12.62	75	3049	216.684 ug/l	#	9
82) 4-Chlorotoluene	12.98	91	346	1.478 ug/l	#	42
84) 1,2,4-Trimethylbenzene	13.26	105	508	1.842 ug/l		68
90) Hexachloroethane	14.08	117	64	1.281 ug/l	#	7
92) 1,2-Dibromo-3-Chloropropan	14.49	75	43	4.929 ug/l	#	5
95) Naphthalene	15.38	128	711	4.901 ug/l	#	72

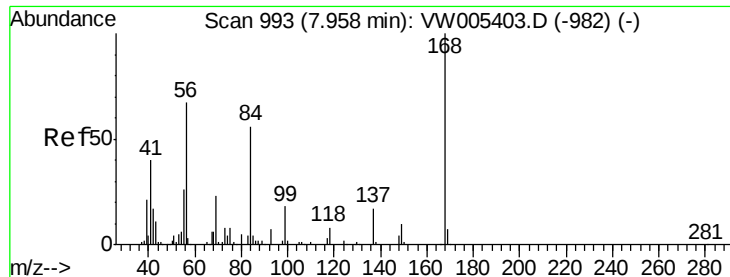
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW091718\
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Quant Title : SW846 8260
QLast Update : Sat Sep 15 02:32:34 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

Instrument :

MSVOA_W

ClientSampleId :

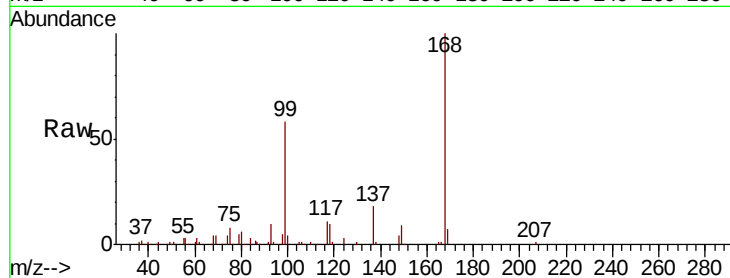
138-KV-2

Tgt Ion:168 Resp: 92787

Ion Ratio Lower Upper

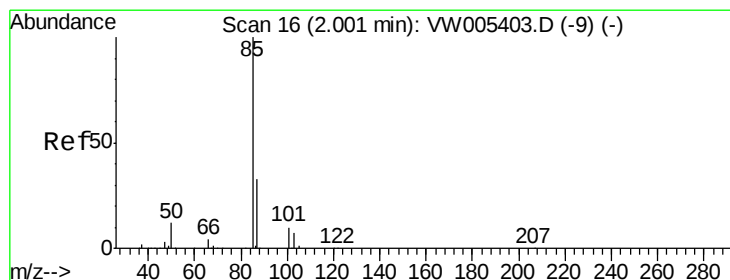
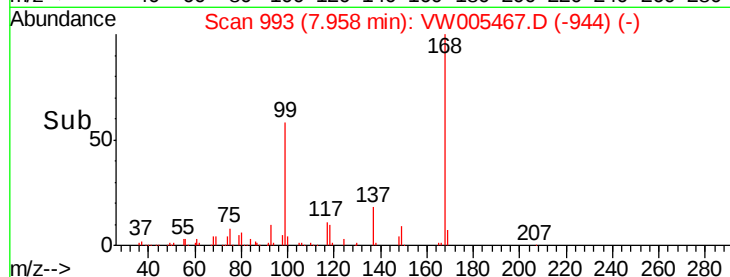
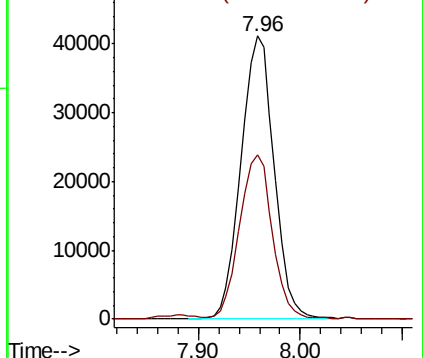
168 100

99 57.9 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

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: VW005467.D

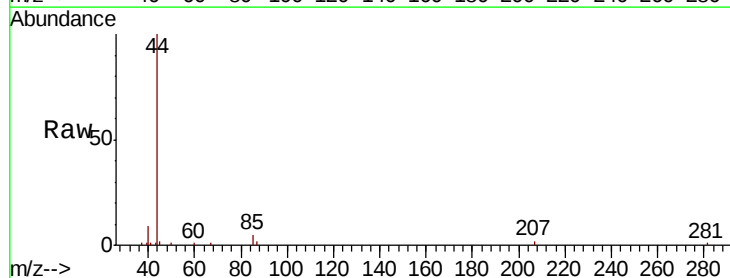
Acq: 18 Sep 2018 07:59

Tgt Ion: 85 Resp: 663

Ion Ratio Lower Upper

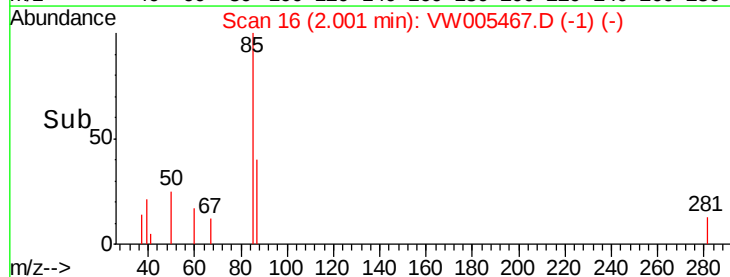
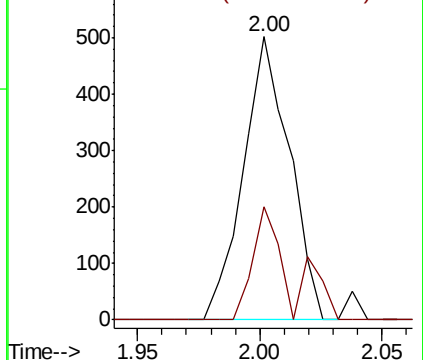
85 100

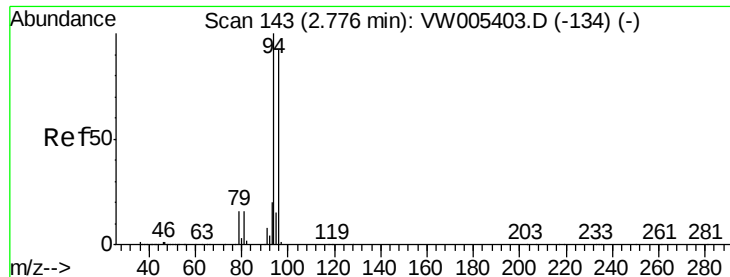
87 39.8 16.4 49.1



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# 144

Delta R.T. 0.01 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

Instrument :

MSVOA_W

ClientSampleId :

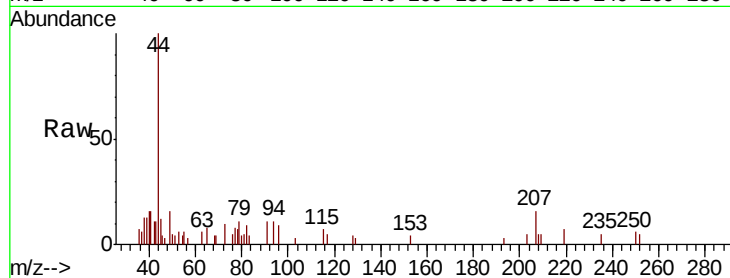
138-KV-2

Tgt Ion: 94 Resp: 329

Ion Ratio Lower Upper

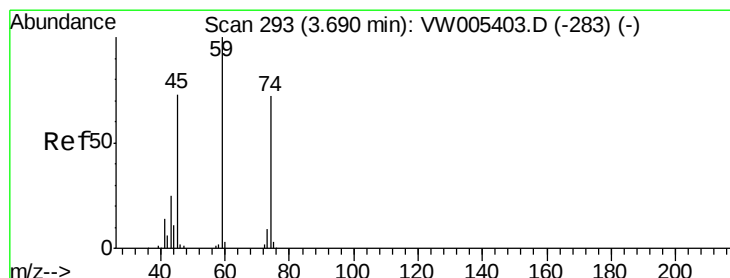
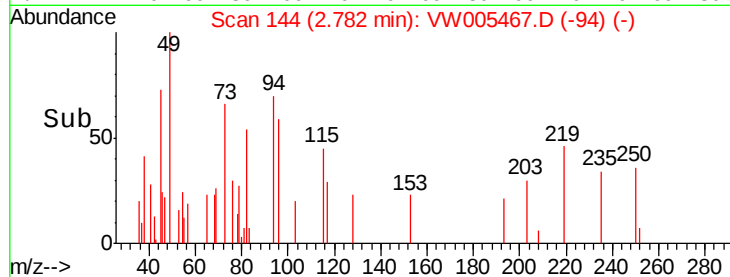
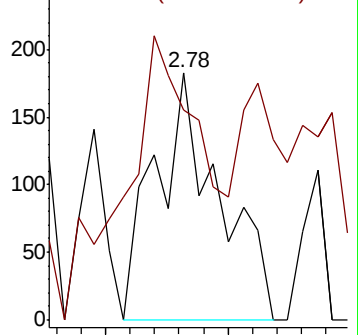
94 100

96 35.0 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: 1.404 ug/l

RT: 3.70 min Scan# 295

Delta R.T. 0.01 min

Lab File: VW005467.D

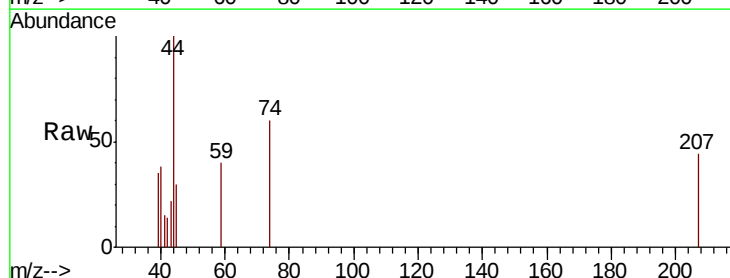
Acq: 18 Sep 2018 07:59

Tgt Ion: 74 Resp: 567

Ion Ratio Lower Upper

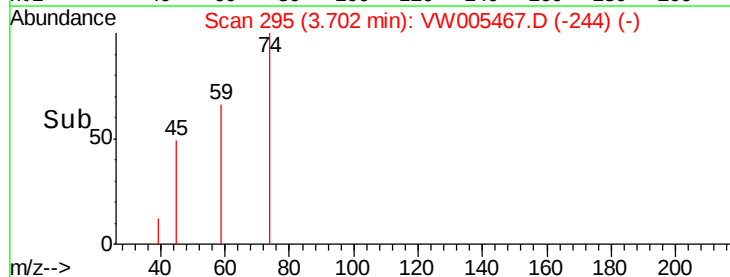
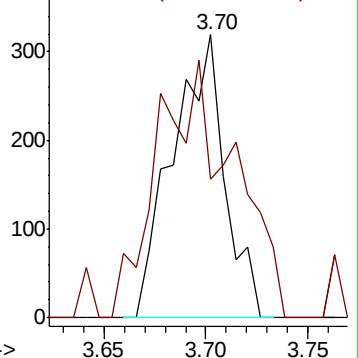
74 100

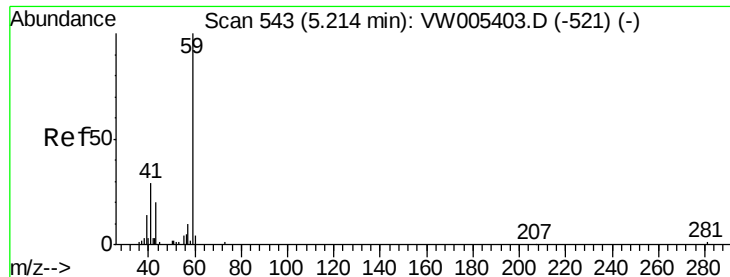
45 0.0 53.1 159.3#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



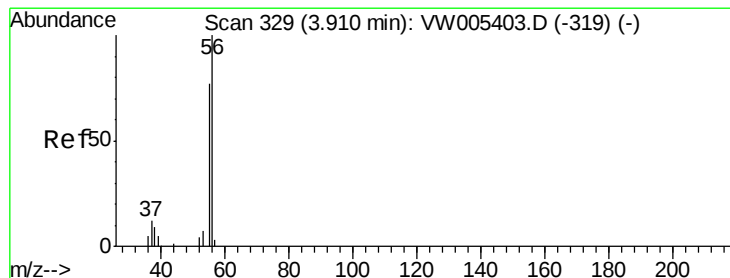
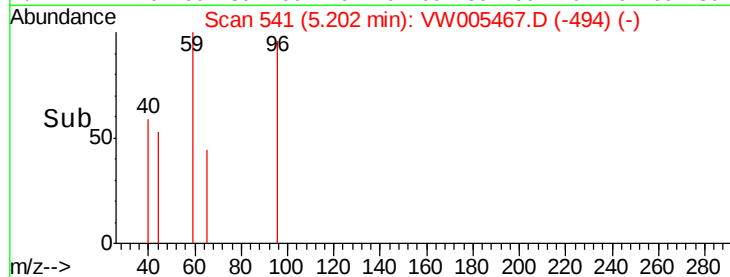
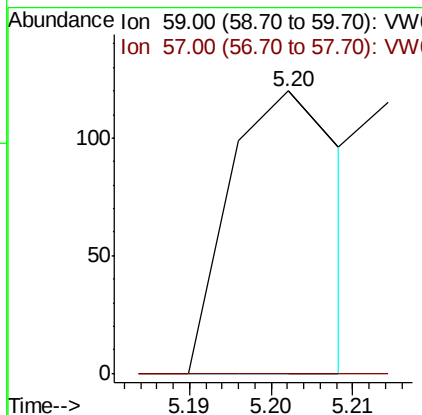
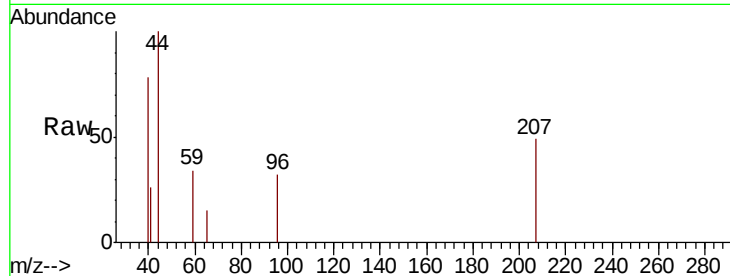


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.20 min Scan# 541
 Delta R.T. -0.01 min
 Lab File: VW005467.D
 Acq: 18 Sep 2018 07:59

Instrument :
 MSVOA_W
 ClientSampleId :
 138-KV-2

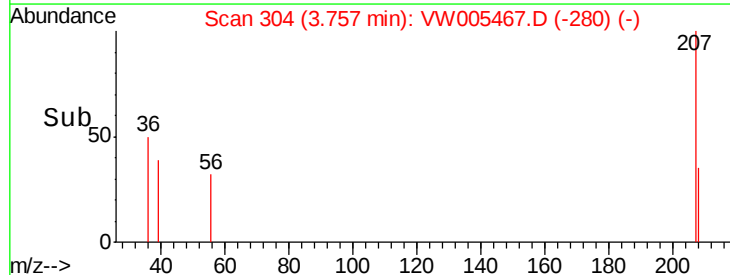
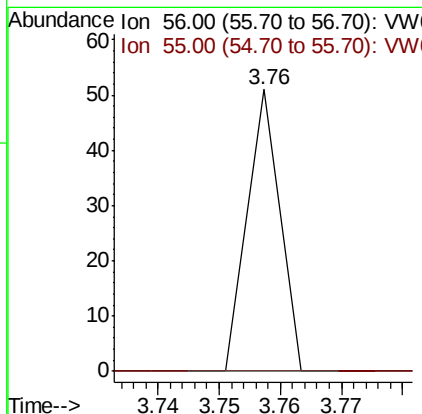
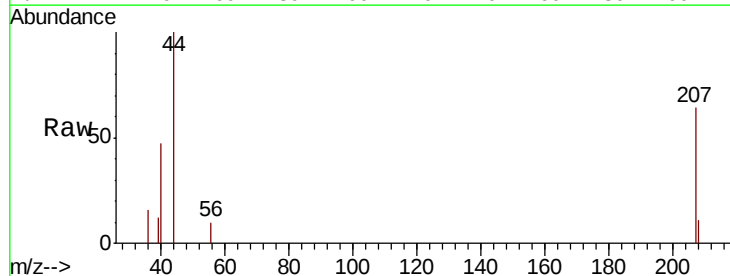
Tgt Ion: 59 Resp: 115
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 13.0#

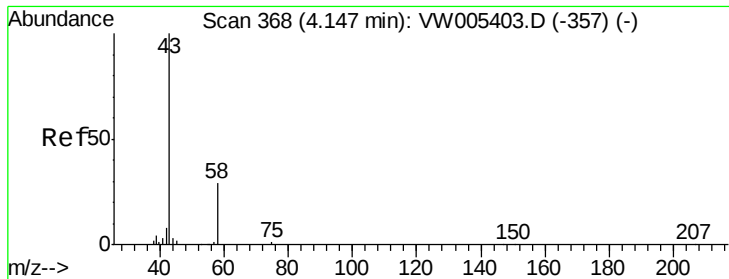


#13

Acrolein
 Concen: Below Cal
 RT: 3.76 min Scan# 304
 Delta R.T. -0.15 min
 Lab File: VW005467.D
 Acq: 18 Sep 2018 07:59

Tgt Ion: 56 Resp: 19
 Ion Ratio Lower Upper
 56 100
 55 0.0 59.8 89.8#

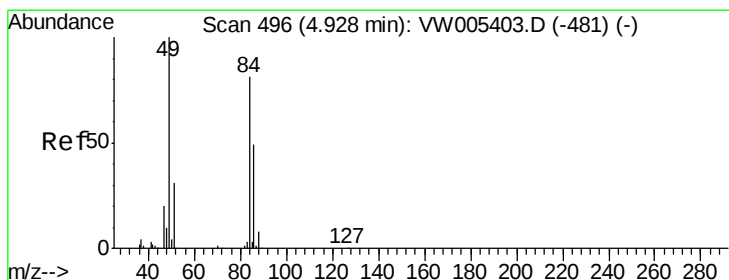
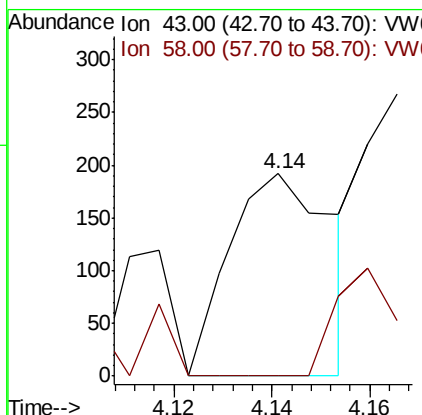
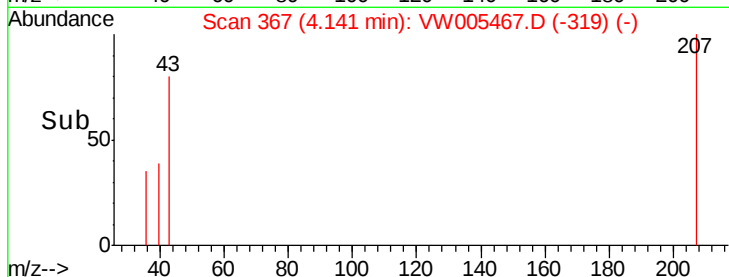
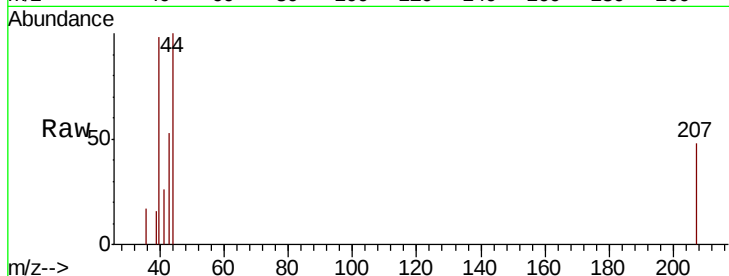




#16
Acetone
Concen: Below Cal
RT: 4.14 min Scan# 367
Delta R.T. -0.01 min
Lab File: VW005467.D
Acq: 18 Sep 2018 07:59

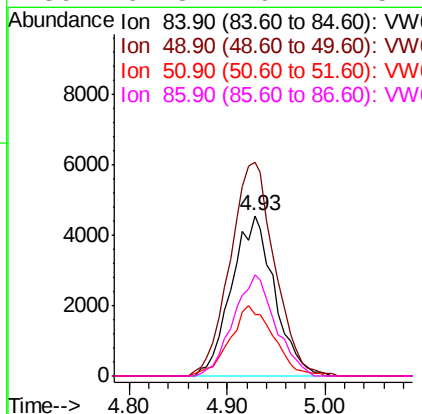
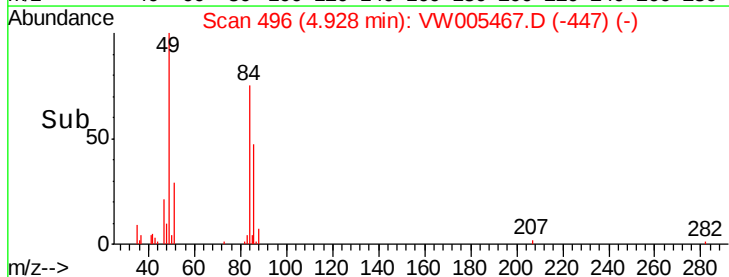
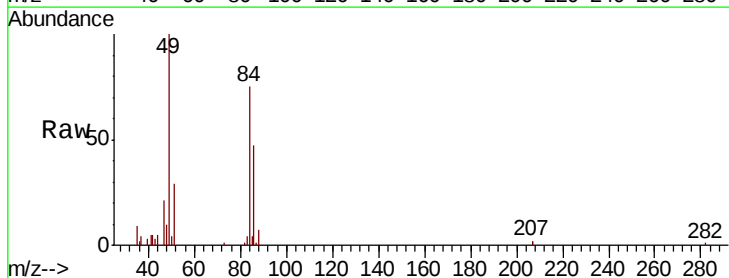
Instrument :
MSVOA_W
ClientSampled :
138-KV-2

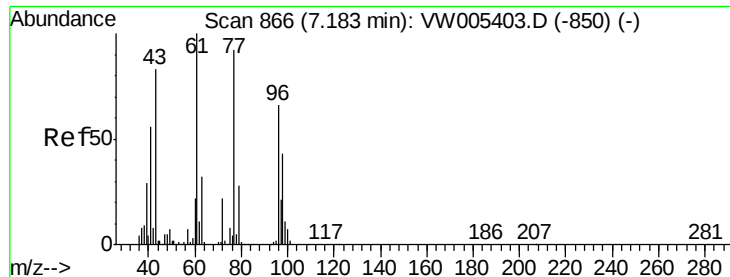
Tgt Ion: 43 Resp: 280
Ion Ratio Lower Upper
43 100
58 0.0 22.8 34.2#



#20
Methylene Chloride
Concen: 9.915 ug/l
RT: 4.93 min Scan# 496
Delta R.T. 0.00 min
Lab File: VW005467.D
Acq: 18 Sep 2018 07:59

Tgt Ion: 84 Resp: 13871
Ion Ratio Lower Upper
84 100
49 133.0 99.3 148.9
51 38.6 31.1 46.7
86 62.8 49.1 73.7





#25

2-Butanone

Concen: 3.401 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.04 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

Instrument :

MSVOA_W

ClientSampleId :

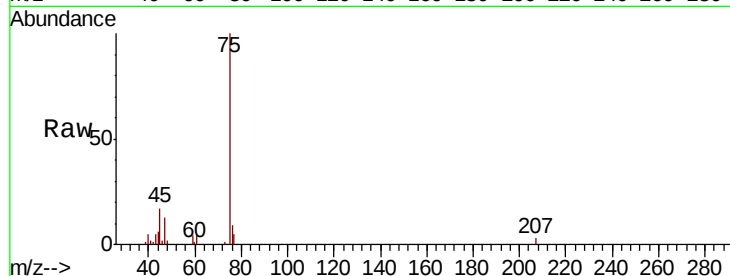
138-KV-2

Tgt Ion: 43 Resp: 788

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

7.15

300

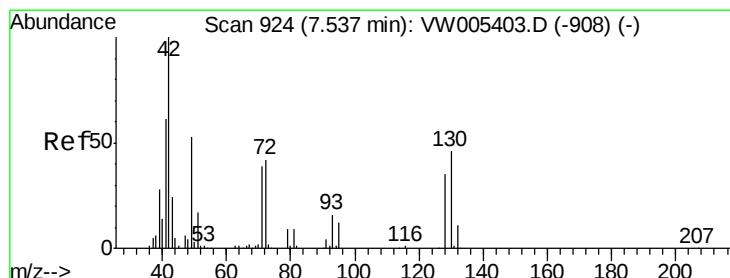
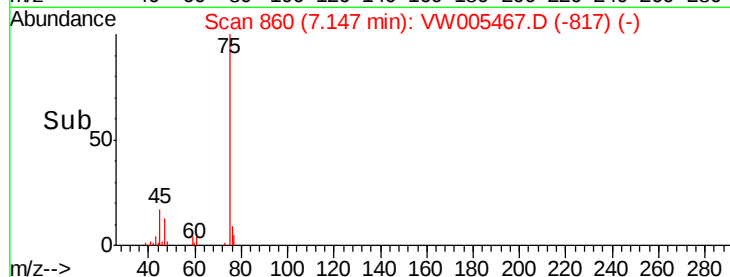
200

100

0

7.10 7.15 7.20

Time-->



#29

Tetrahydrofuran

Concen: 1.477 ug/l

RT: 7.53 min Scan# 923

Delta R.T. -0.01 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

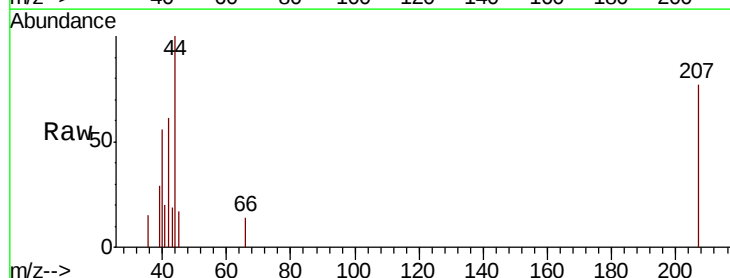
Tgt Ion: 42 Resp: 218

Ion Ratio Lower Upper

42 100

72 69.3 33.2 49.8#

71 0.0 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

7.53

300

250

200

150

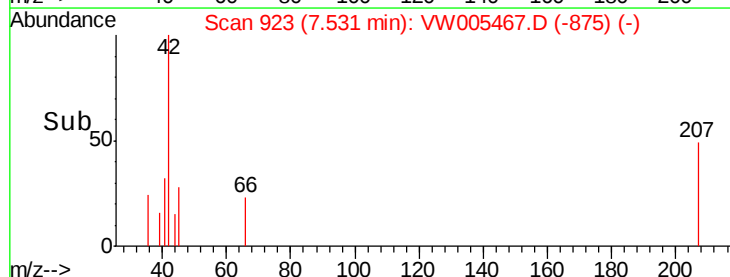
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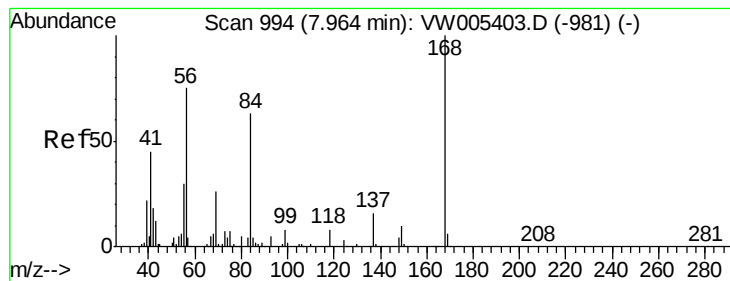
50

0

7.50 7.52 7.54

Time-->





#31

Cyclohexane

Concen: 1.544 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.01 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

Instrument :

MSVOA_W

ClientSampleId :

138-KV-2

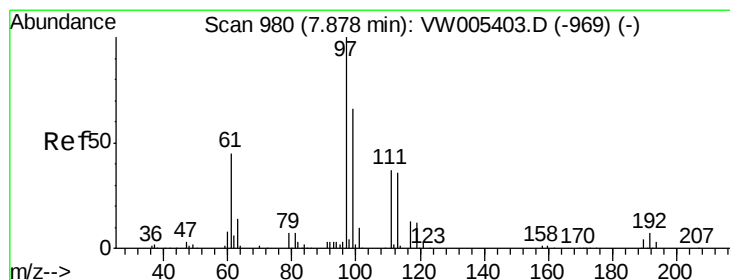
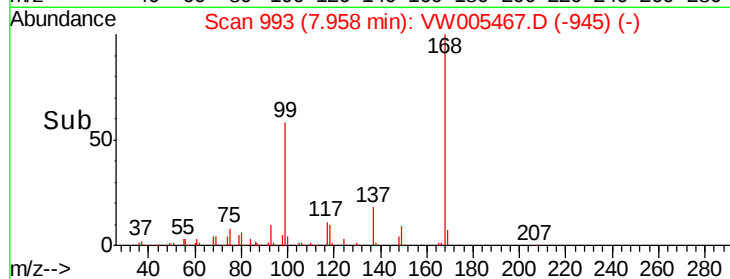
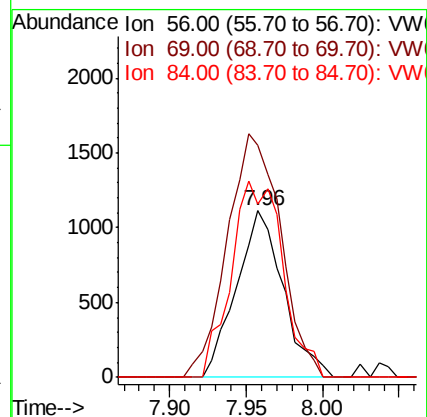
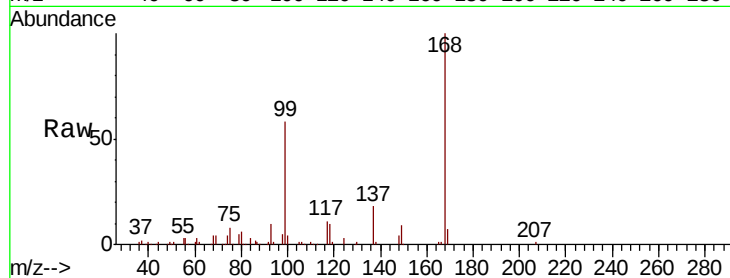
Tgt Ion: 56 Resp: 2373

Ion Ratio Lower Upper

56 100

69 139.1 27.2 40.8#

84 103.9 66.7 100.1#



#32

1,1,1-Trichloroethane

Concen: 1.623 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

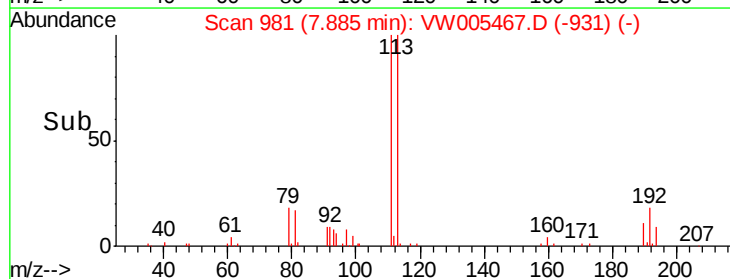
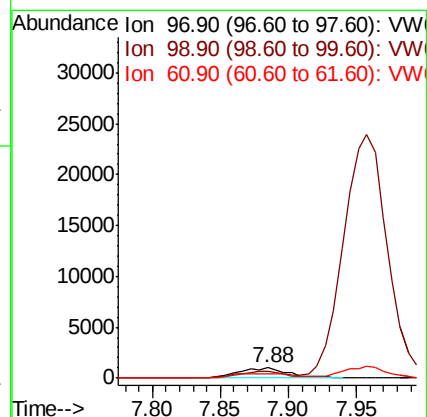
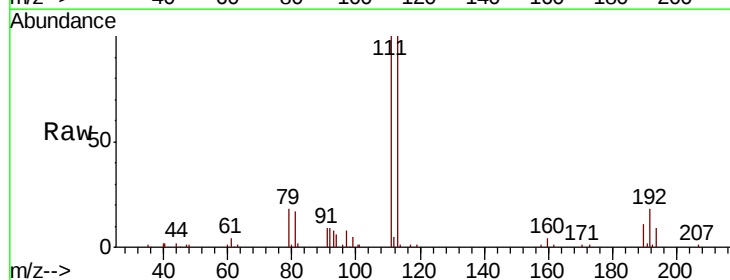
Tgt Ion: 97 Resp: 2491

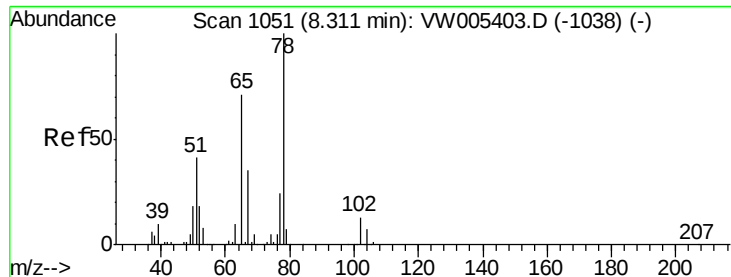
Ion Ratio Lower Upper

97 100

99 0.0 51.5 77.3#

61 52.1 35.8 53.6

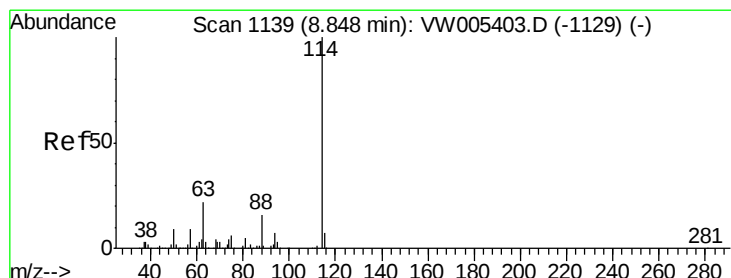
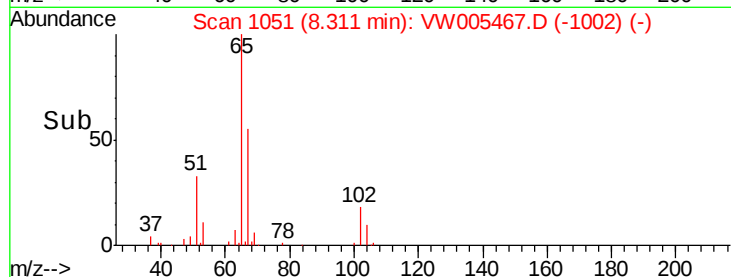
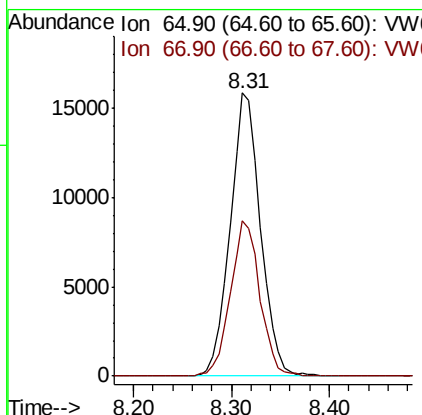
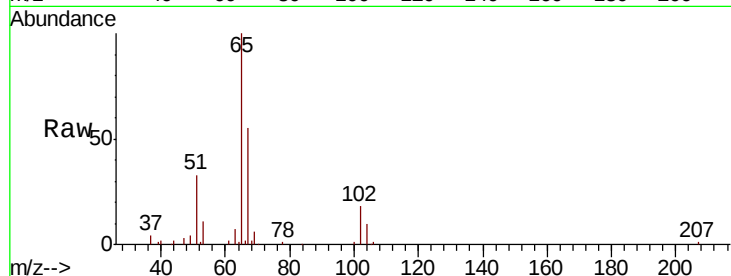




#33
 1,2-Dichloroethane-d4
 Concen: 35.294 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VW005467.D
 Acq: 18 Sep 2018 07:59

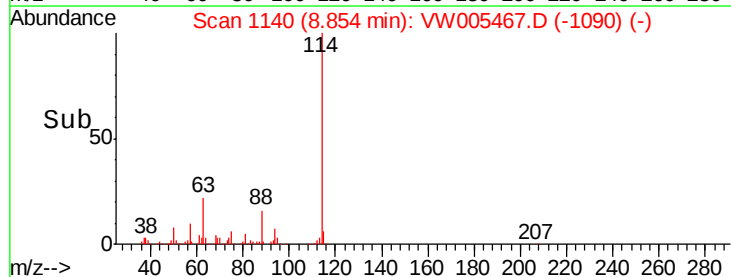
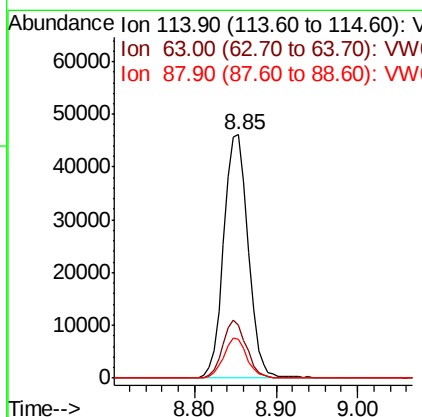
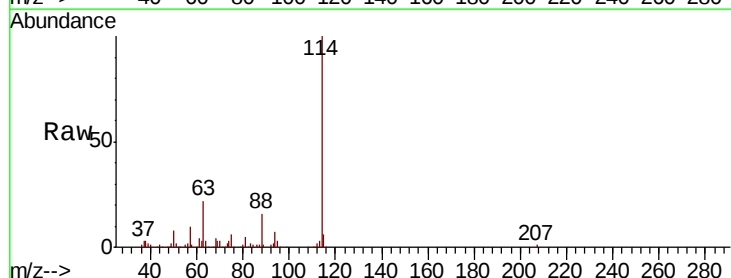
Instrument :
 MSVOA_W
 ClientSampleId :
 138-KV-2

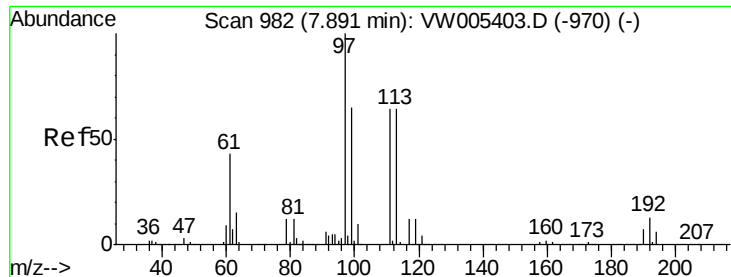
Tgt Ion: 65 Resp: 33993
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1140
 Delta R.T. 0.01 min
 Lab File: VW005467.D
 Acq: 18 Sep 2018 07:59

Tgt Ion: 114 Resp: 95520
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.4
 88 16.0 0.0 31.8

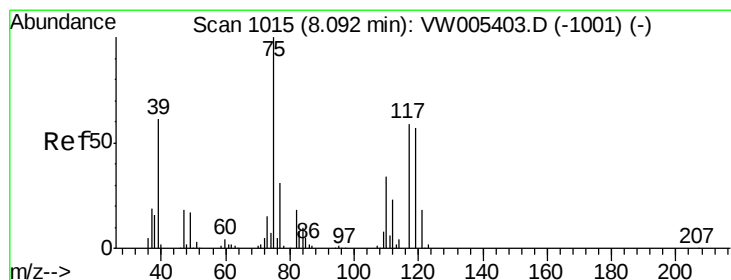
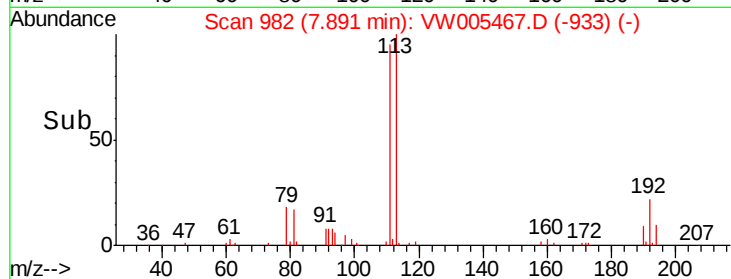
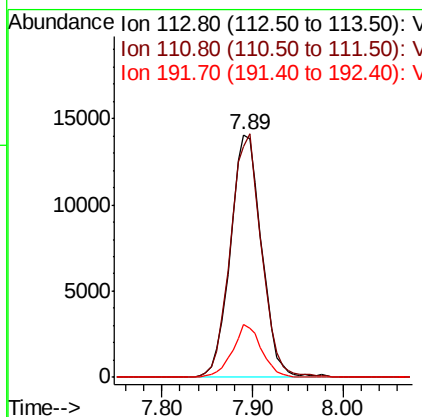
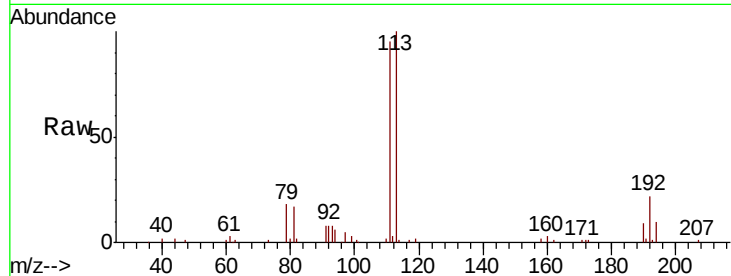




#35
 Dibromofluoromethane
 Concen: 63.008 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW005467.D
 Acq: 18 Sep 2018 07:59

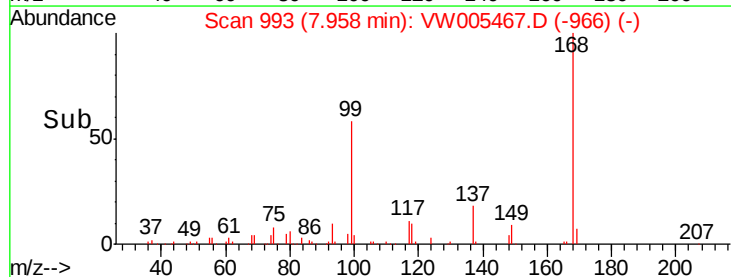
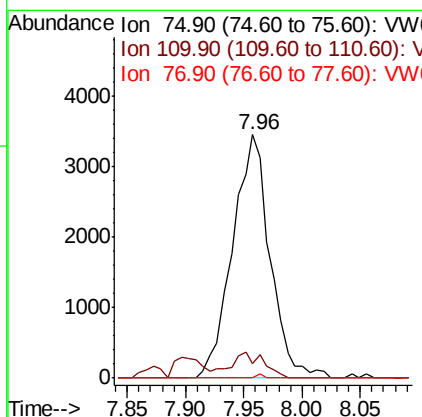
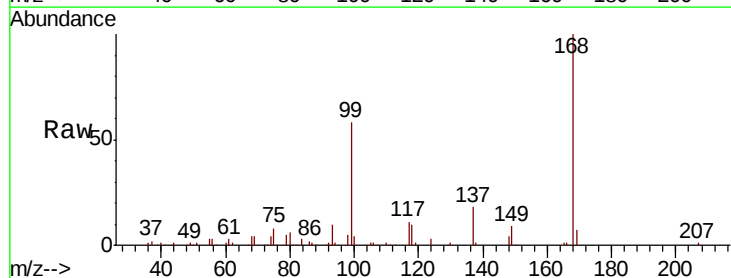
Instrument :
 MSVOA_W
 ClientSampleId :
 138-KV-2

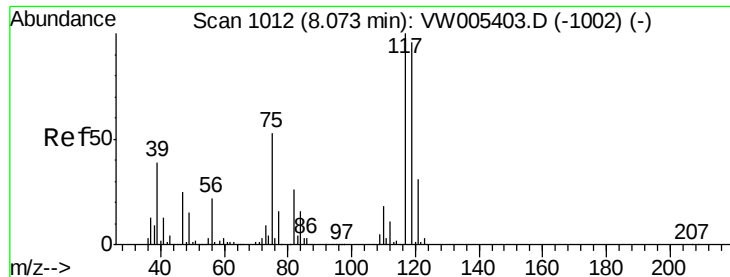
Tgt Ion: 113 Resp: 33745
 Ion Ratio Lower Upper
 113 100
 111 99.8 82.3 123.5
 192 20.1 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 8.549 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW005467.D
 Acq: 18 Sep 2018 07:59

Tgt Ion: 75 Resp: 7728
 Ion Ratio Lower Upper
 75 100
 110 8.1 16.8 50.4#
 77 0.3 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 9.932 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

Instrument :

MSVOA_W

ClientSampleId :

138-KV-2

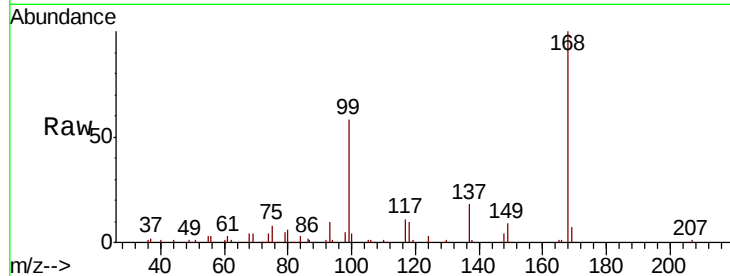
Tgt Ion:117 Resp: 9356

Ion Ratio Lower Upper

117 100

119 7.7 76.8 115.2#

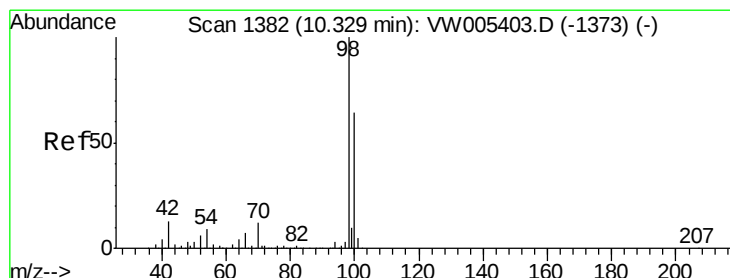
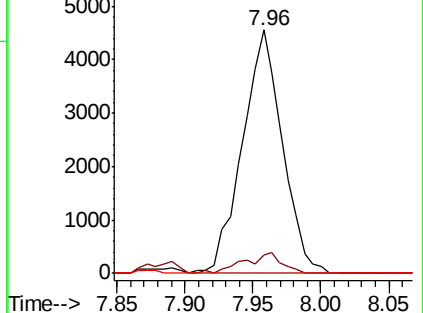
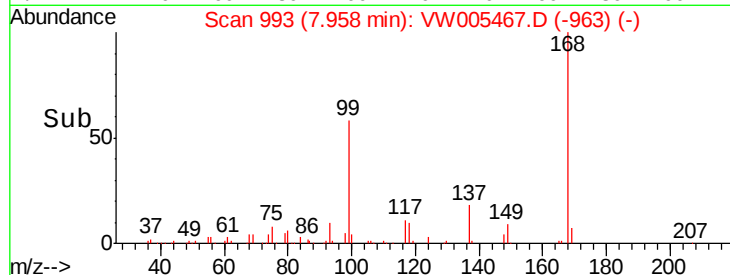
121 0.0 24.7 37.1#



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: 25.631 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005467.D

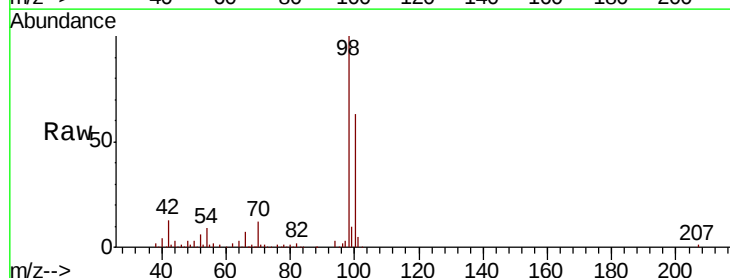
Acq: 18 Sep 2018 07:59

Tgt Ion: 98 Resp: 62864

Ion Ratio Lower Upper

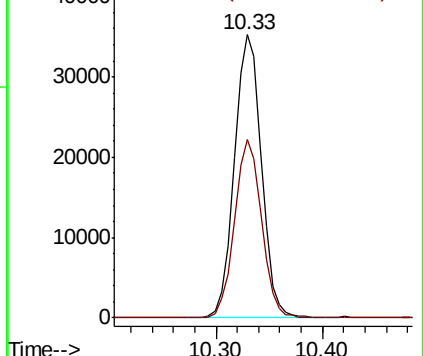
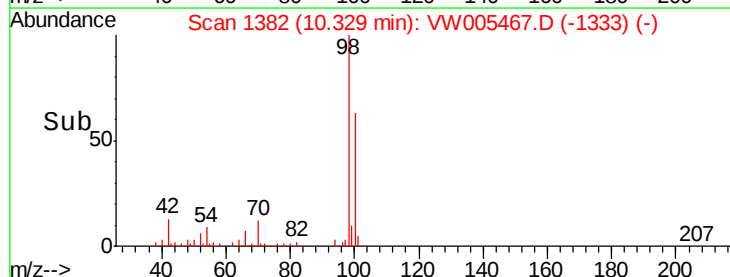
98 100

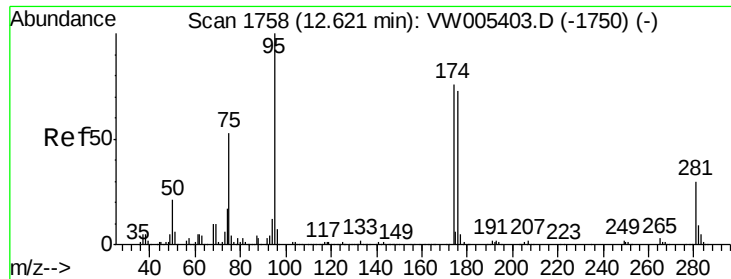
100 63.1 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

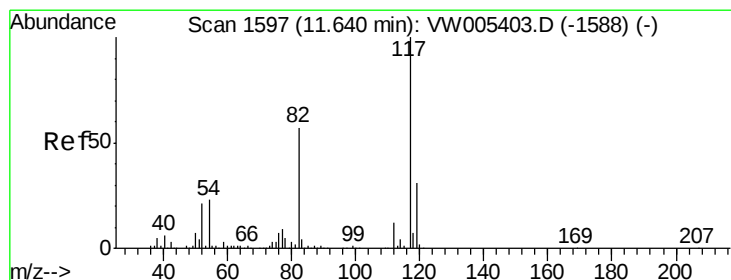
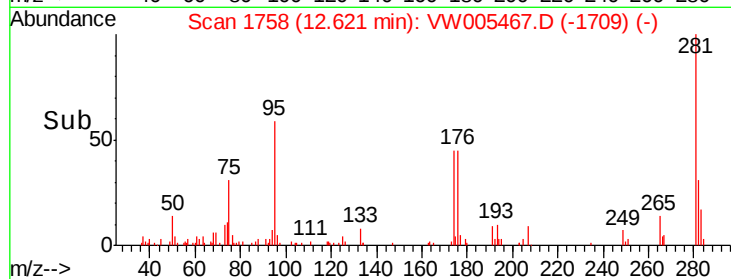
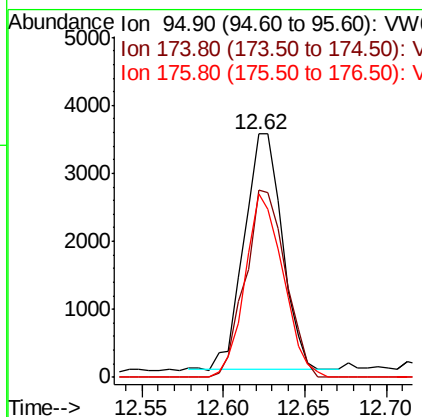
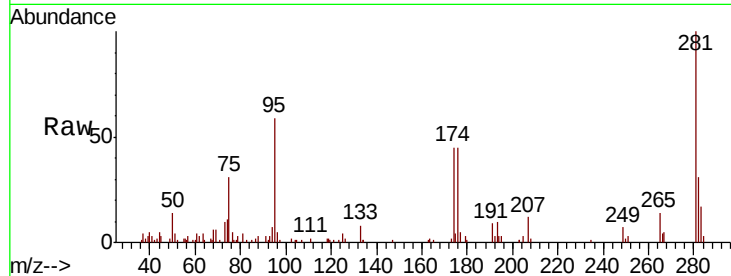




#62
4-Bromofluorobenzene
Concen: 6.238 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW005467.D
Acq: 18 Sep 2018 07:59

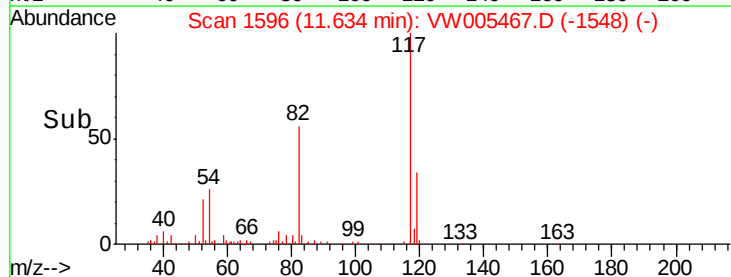
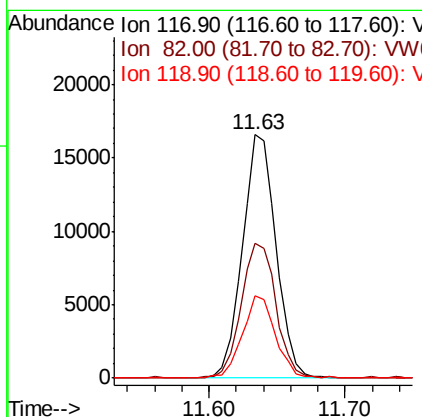
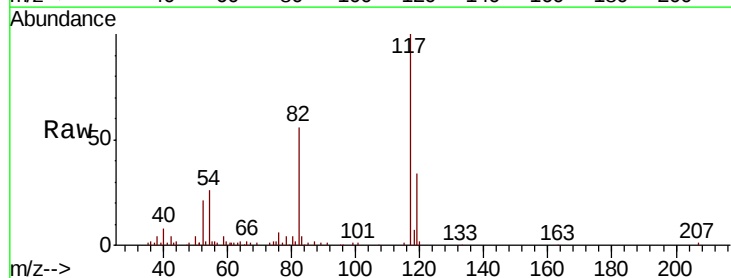
Instrument :
MSVOA_W
ClientSampleId :
138-KV-2

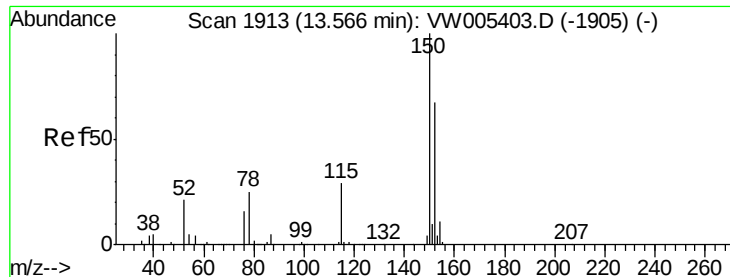
Tgt Ion: 95 Resp: 5610
Ion Ratio Lower Upper
95 100
174 84.6 0.0 161.2
176 78.1 0.0 156.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.01 min
Lab File: VW005467.D
Acq: 18 Sep 2018 07:59

Tgt Ion: 117 Resp: 28667
Ion Ratio Lower Upper
117 100
82 55.6 45.9 68.9
119 33.9 24.8 37.2

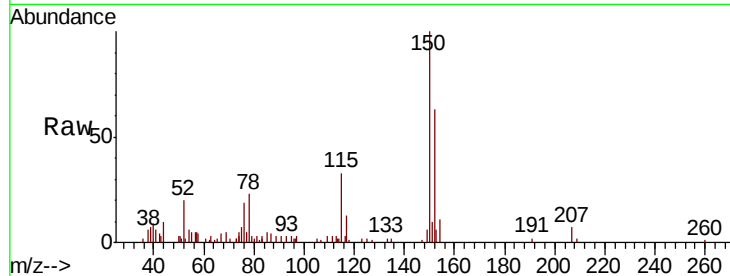




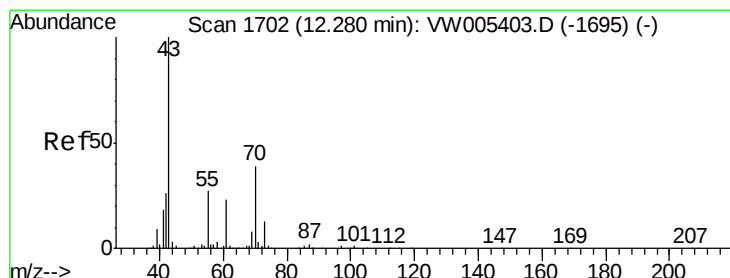
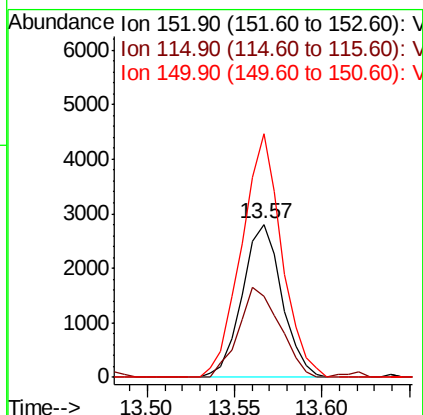
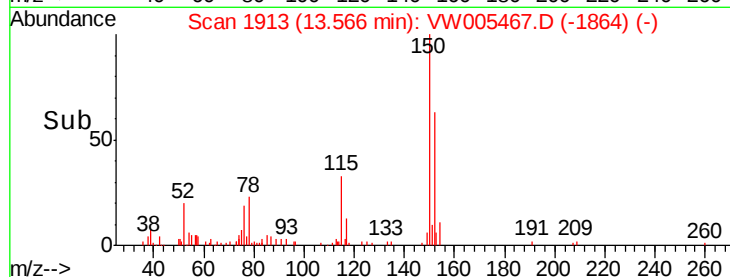
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.57 min Scan# 1913
 Delta R.T. 0.00 min
 Lab File: VW005467.D
 Acq: 18 Sep 2018 07:59

Instrument :
 MSVOA_W
 ClientSampleId :
 138-KV-2

Tgt Ion:152 Resp: 4438
 Ion Ratio Lower Upper
 152 100
 115 60.7 29.5 88.5
 150 160.5 0.0 345.6

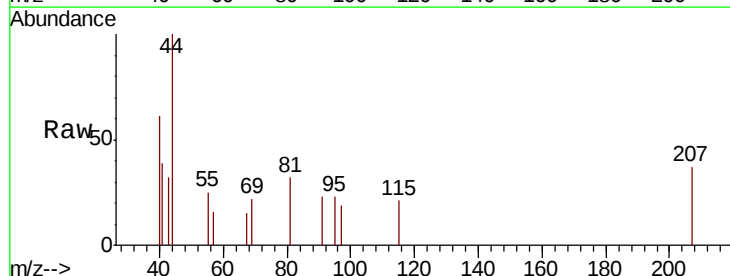


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

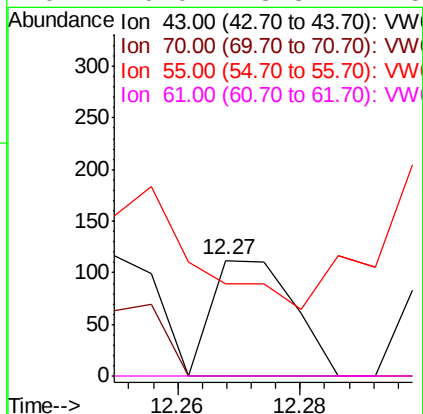
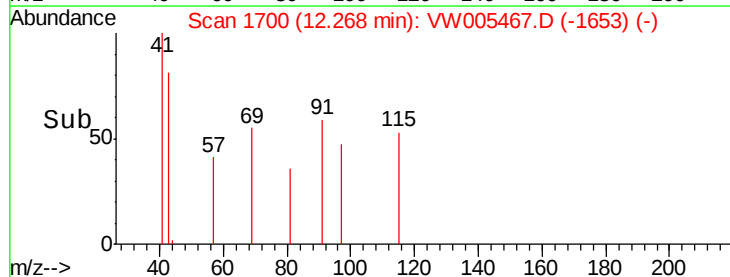


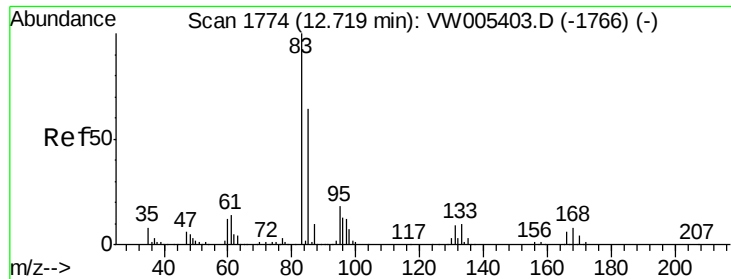
#74
 N-ethyl acetate
 Concen: 1.585 ug/l
 RT: 12.27 min Scan# 1700
 Delta R.T. -0.01 min
 Lab File: VW005467.D
 Acq: 18 Sep 2018 07:59

Tgt Ion: 43 Resp: 104
 Ion Ratio Lower Upper
 43 100
 70 0.0 31.9 47.9#
 55 0.0 21.4 32.0#
 61 0.0 18.3 27.5#



Abundance Ion 43.00 (42.70 to 43.70): VW
 Ion 70.00 (69.70 to 70.70): VW
 Ion 55.00 (54.70 to 55.70): VW
 Ion 61.00 (60.70 to 61.70): VW

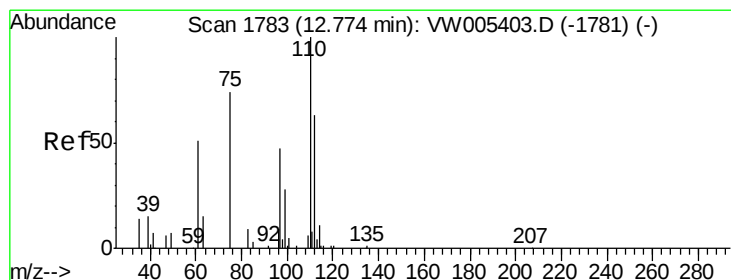
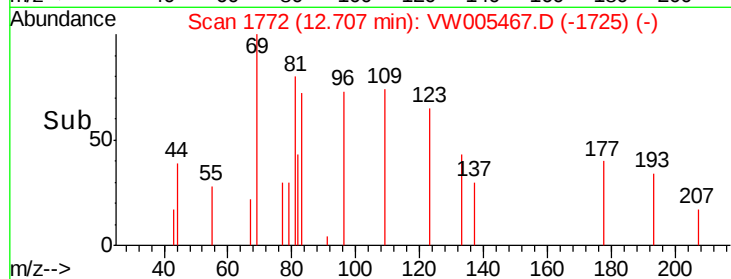
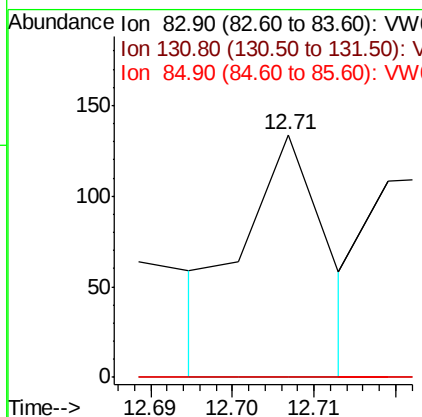
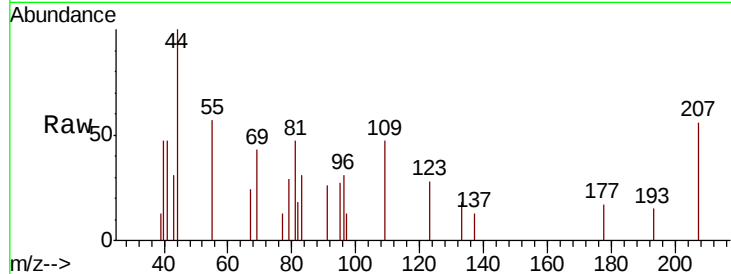




#75
 1,1,2,2-Tetrachloroethane
 Concen: 2.070 ug/l
 RT: 12.71 min Scan# 1772
 Delta R.T. -0.01 min
 Lab File: VW005467.D
 Acq: 18 Sep 2018 07:59

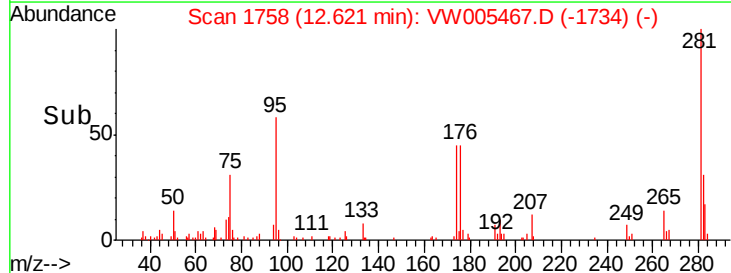
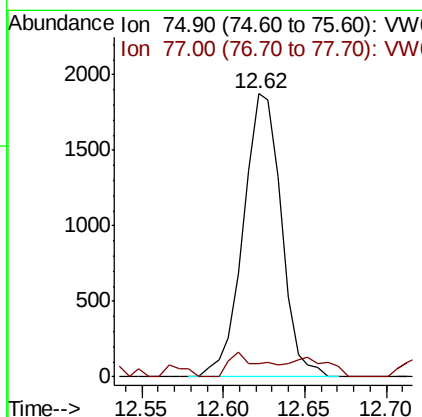
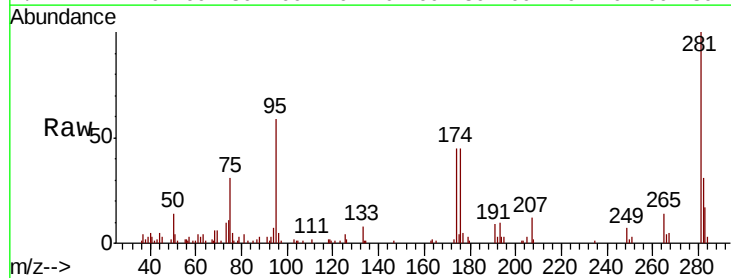
Instrument :
 MSVOA_W
 ClientSampleId :
 138-KV-2

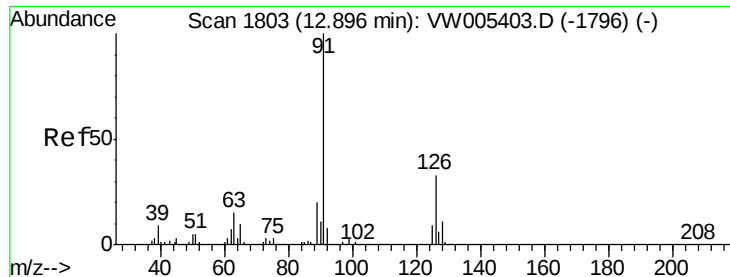
Tgt Ion: 83 Resp: 94
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.7 17.1#
 85 0.0 31.6 95.0#



#76
 1,2,3-Trichloropropane
 Concen: 83.531 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW005467.D
 Acq: 18 Sep 2018 07:59

Tgt Ion: 75 Resp: 3049
 Ion Ratio Lower Upper
 75 100
 77 5.4 0.0 0.0#





#79

2-Chlorotoluene

Concen: 1.087 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.01 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

Instrument :

MSVOA_W

ClientSampleId :

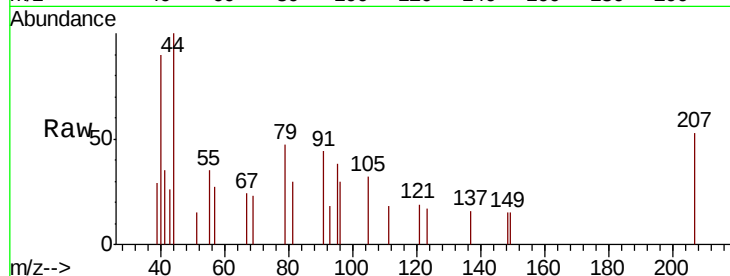
138-KV-2

Tgt Ion: 91 Resp: 241

Ion Ratio Lower Upper

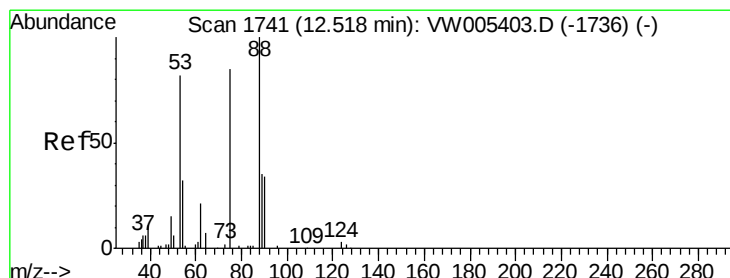
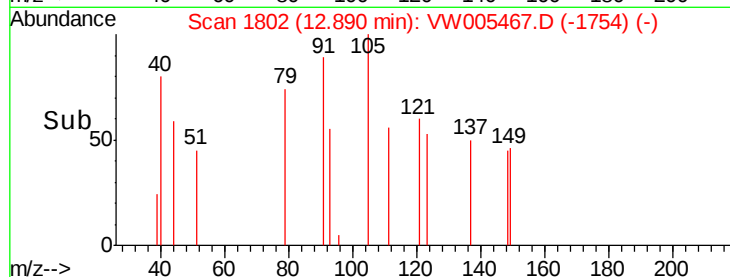
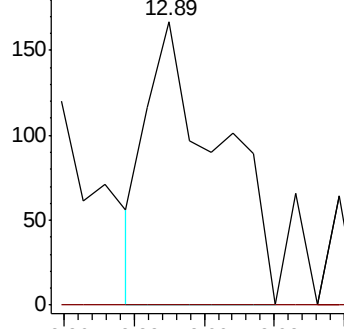
91 100

126 0.0 16.4 49.1#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 216.684 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

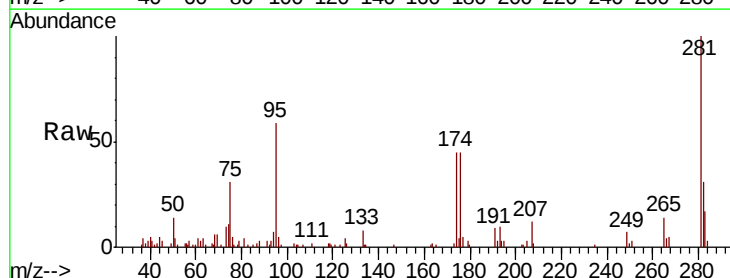
Tgt Ion: 75 Resp: 3049

Ion Ratio Lower Upper

75 100

53 0.0 83.2 124.8#

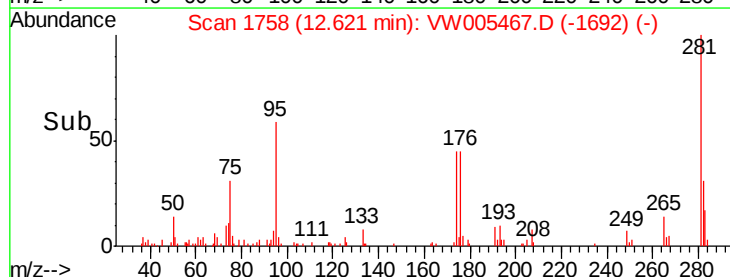
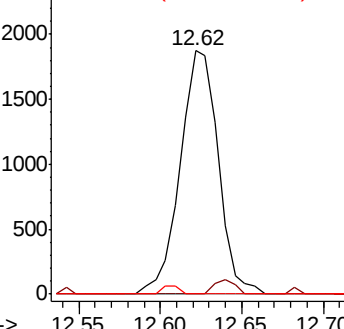
89 1.5 36.6 54.8#

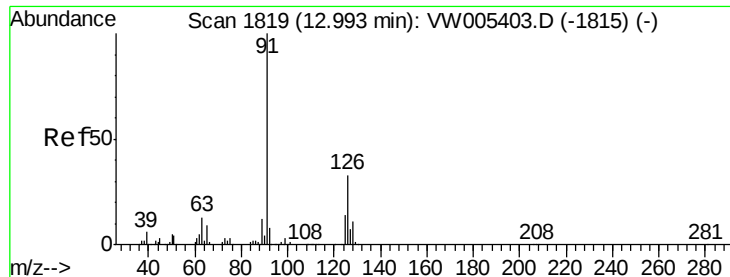


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#82

4-Chlorotoluene

Concen: 1.478 ug/l

RT: 12.98 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

Instrument :

MSVOA_W

ClientSampled :

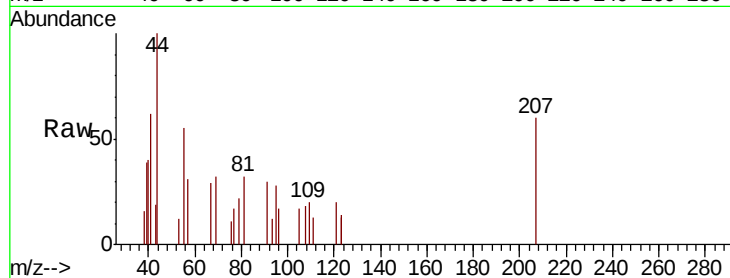
138-KV-2

Tgt Ion: 91 Resp: 346

Ion Ratio Lower Upper

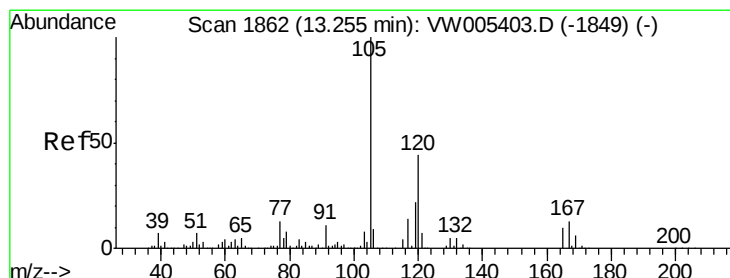
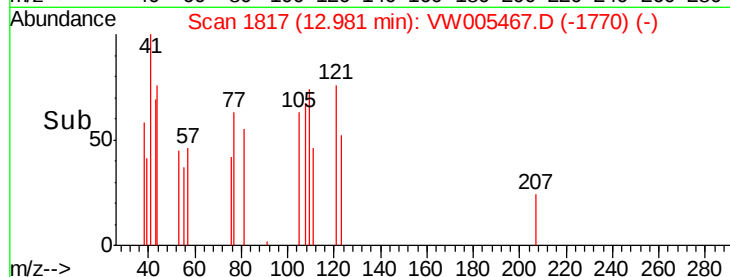
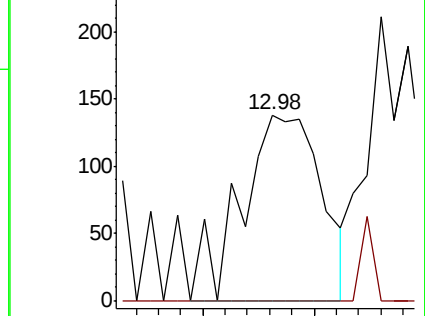
91 100

126 0.0 16.4 49.1#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#84

1,2,4-Trimethylbenzene

Concen: 1.842 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW005467.D

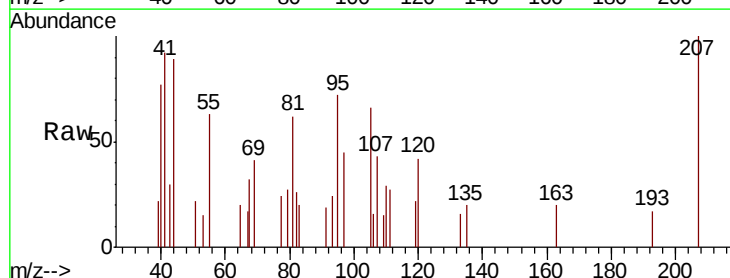
Acq: 18 Sep 2018 07:59

Tgt Ion: 105 Resp: 508

Ion Ratio Lower Upper

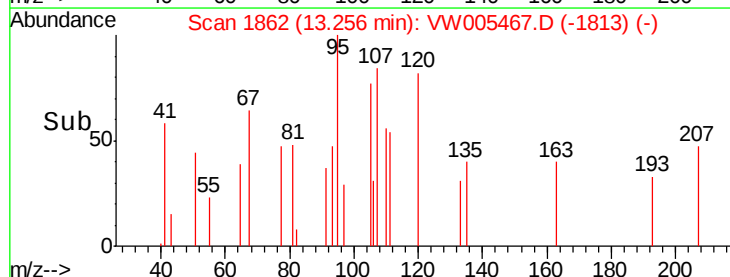
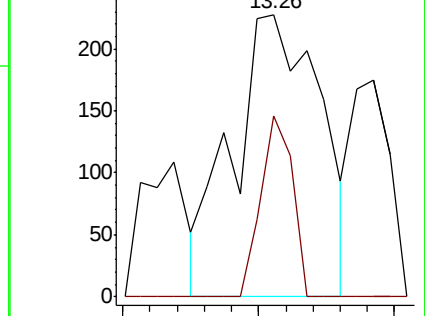
105 100

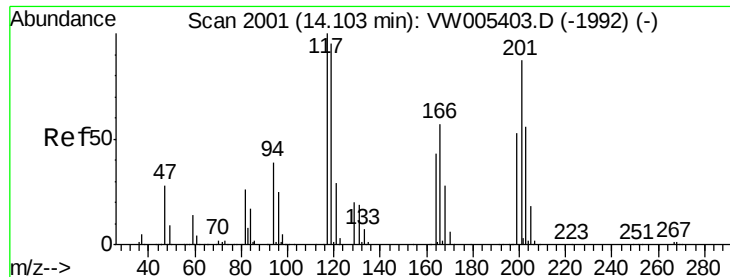
120 23.2 21.8 65.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 1.281 ug/l

RT: 14.08 min Scan# 1998

Delta R.T. -0.02 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

Instrument :

MSVOA_W

ClientSampleId :

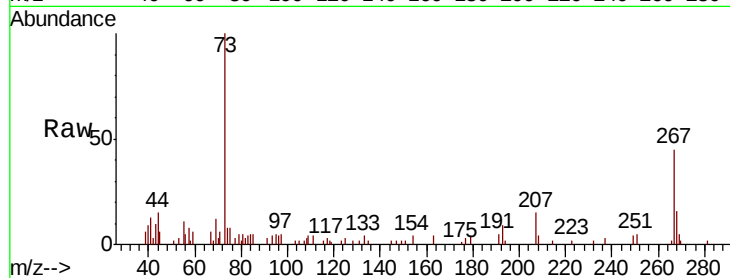
138-KV-2

Tgt Ion: 117 Resp: 64

Ion Ratio Lower Upper

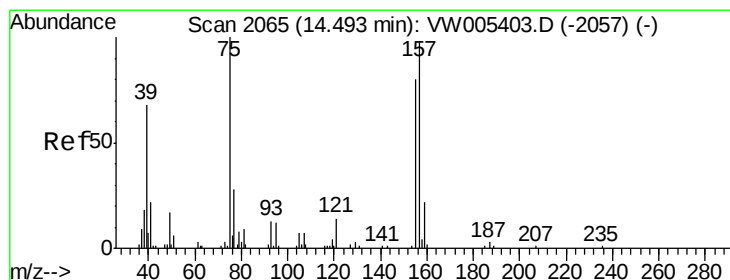
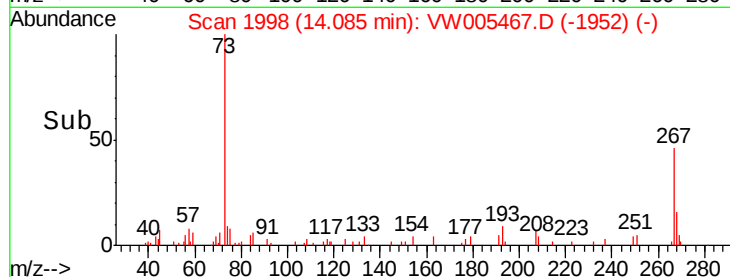
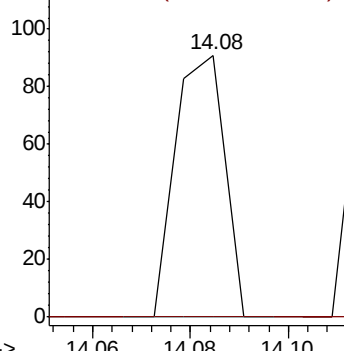
117 100

201 0.0 42.5 127.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.929 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. -0.01 min

Lab File: VW005467.D

Acq: 18 Sep 2018 07:59

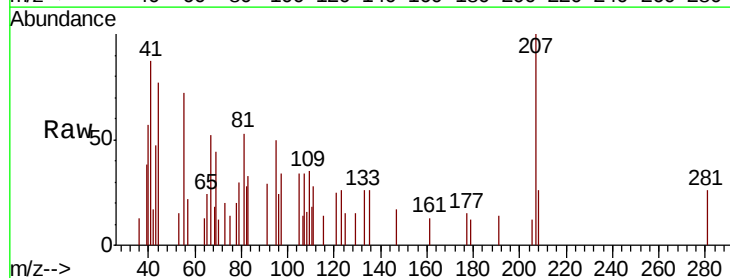
Tgt Ion: 75 Resp: 43

Ion Ratio Lower Upper

75 100

155 0.0 39.0 117.0#

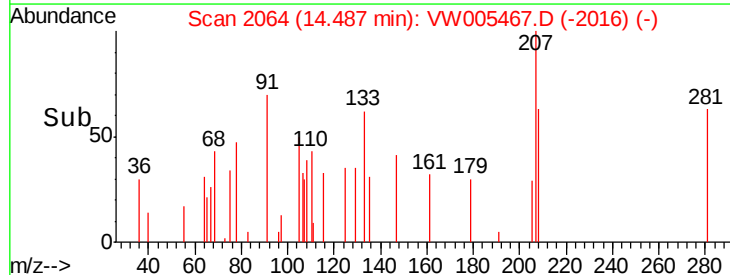
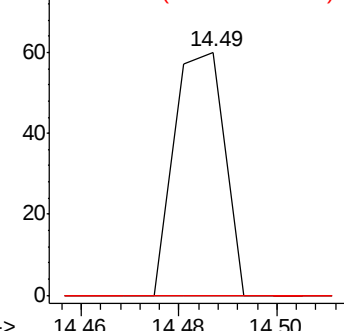
157 0.0 49.9 149.6#

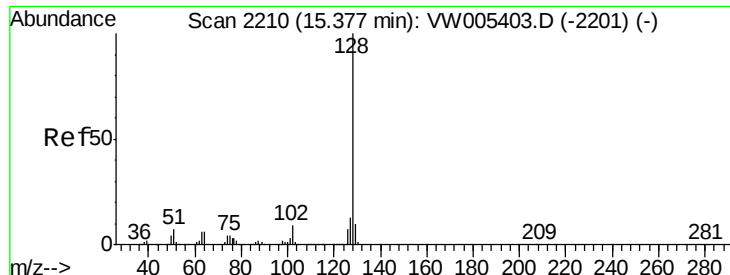


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

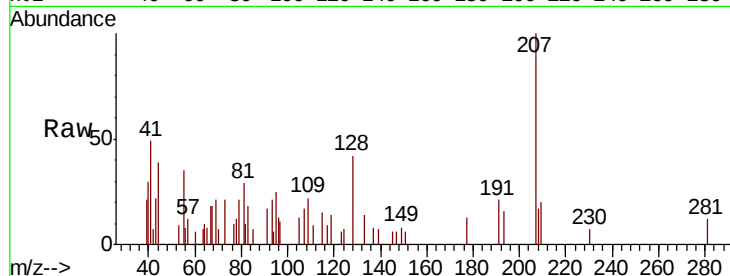




#95
Naphthalene
Concen: 4.901 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.00 min
Lab File: VW005467.D
Acq: 18 Sep 2018 07:59

Instrument :
MSVOA_W
ClientSampleId :
138-KV-2

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	11.0	16.4#
129	3.0	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

