

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW040419\
 Data File : VW009688.D
 Acq On : 04 Apr 2019 11:27
 Operator : SY/VA
 Sample : K2189-10
 Misc : 5.10G/5ML/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BP-VPB201R-GW-758-760RE

Quant Time: Apr 05 05:41:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W032919S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 29 13:24:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	140317	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	219969	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	186141	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	76876	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	93334	58.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.34%	
35) Dibromofluoromethane	7.88	113	70164	50.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.58%	
50) Toluene-d8	10.32	98	215298	42.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.32%	
62) 4-Bromofluorobenzene	12.62	95	75099	39.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.84%	

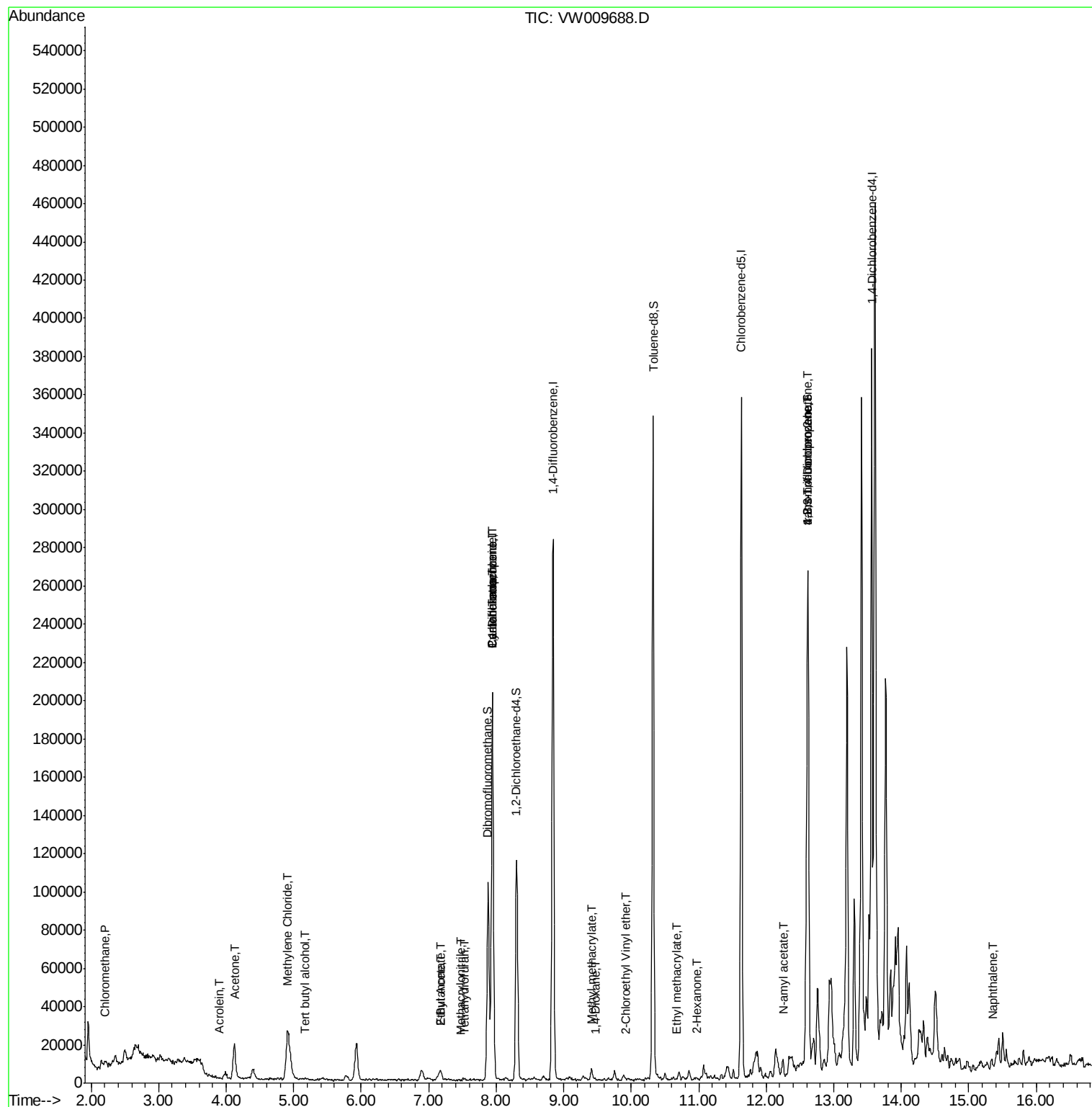
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	157	Below Cal	#	41
3) Chloromethane	2.21	50	1647	1.393	ug/l #	84
11) Tert butyl alcohol	5.17	59	1119	12.028	ug/l #	82
13) Acrolein	3.90	56	162	2.374	ug/l #	80
16) Acetone	4.12	43	33952	94.111	ug/l #	88
20) Methylene Chloride	4.90	84	23694	13.944	ug/l	92
25) 2-Butanone	7.18	43	6817	13.674	ug/l	93
29) Tetrahydrofuran	7.53	42	460	1.486	ug/l #	52
31) Cyclohexane	7.94	56	4485	1.699	ug/l #	36
36) 1,1-Dichloropropene	7.94	75	12420	5.459	ug/l #	51
37) Ethyl Acetate	7.18	43	6817	6.307	ug/l #	71
38) Carbon Tetrachloride	7.94	117	14556	6.244	ug/l #	17
41) Methacrylonitrile	7.49	41	31	3.962	ug/l #	42
48) Methyl methacrylate	9.41	41	2045	2.059	ug/l #	49
49) 1,4-Dioxane	9.48	88	127	9.980	ug/l #	22
56) Ethyl methacrylate	10.66	69	21	3.809	ug/l #	19
58) 2-Chloroethyl Vinyl ether	9.93	63	135	17.180	ug/l #	46
59) 2-Hexanone	10.98	43	865	1.103	ug/l	97
74) N-amyl acetate	12.25	43	2916	2.068	ug/l #	70
76) 1,2,3-Trichloropropane	12.62	75	42530	58.830	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	42530	136.807	ug/l #	7
95) Naphthalene	15.36	128	1540	3.211	ug/l #	96

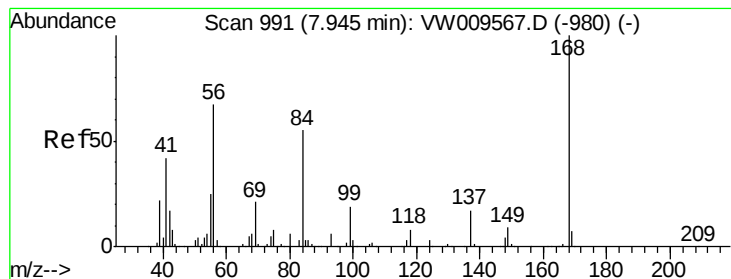
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

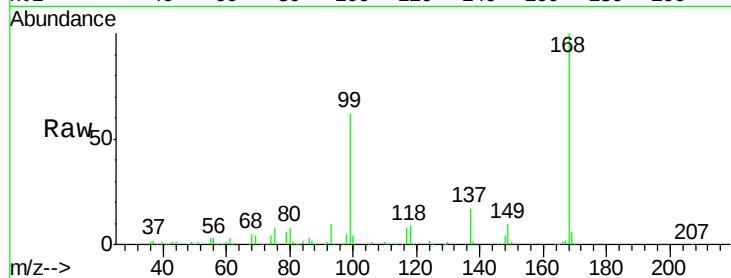
BP-VPB201R-GW-758-760RE

Tgt Ion:168 Resp: 140317

Ion Ratio Lower Upper

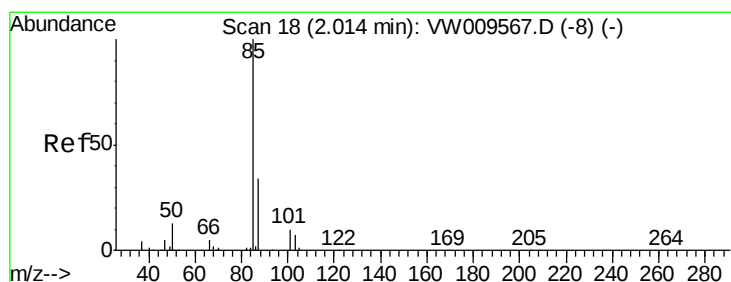
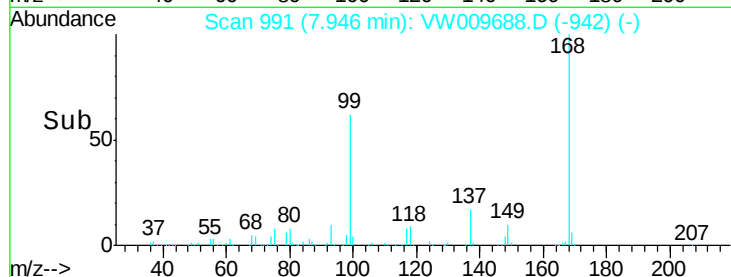
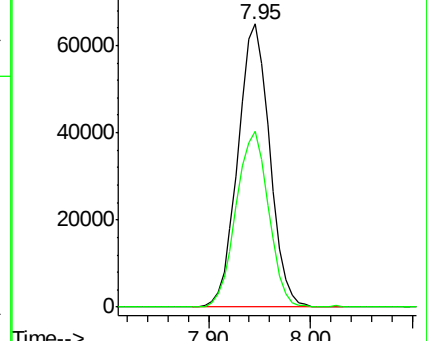
168 100

99 61.9 45.4 68.0



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# 15

Delta R.T. -0.02 min

Lab File: VW009688.D

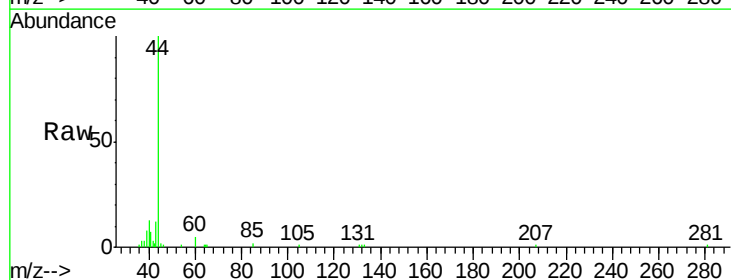
Acq: 04 Apr 2019 11:27

Tgt Ion: 85 Resp: 157

Ion Ratio Lower Upper

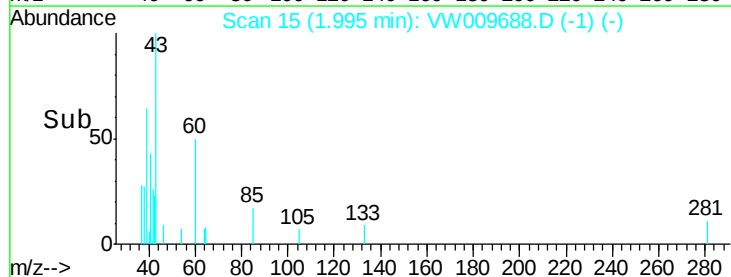
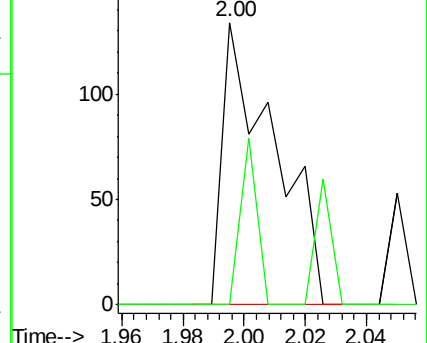
85 100

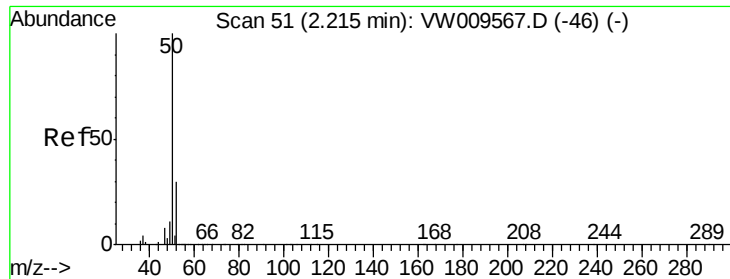
87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 1.393 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

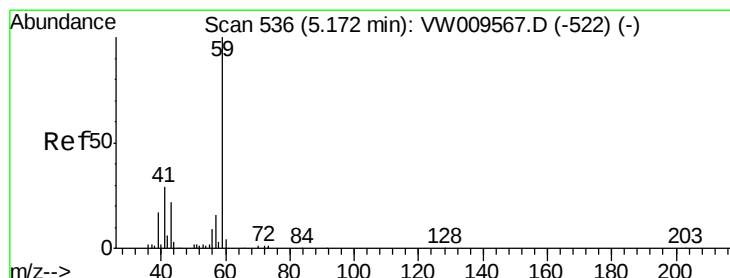
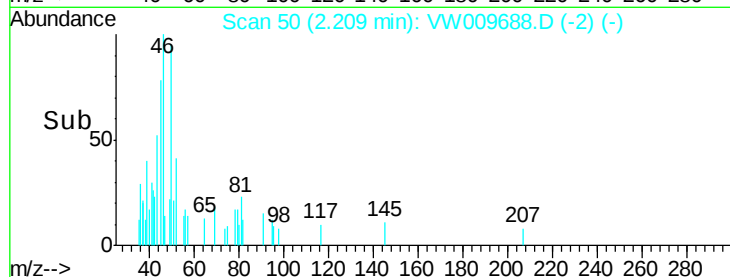
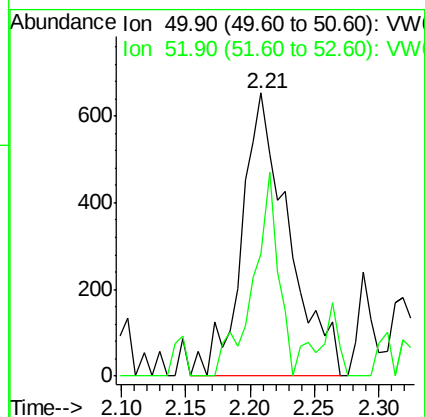
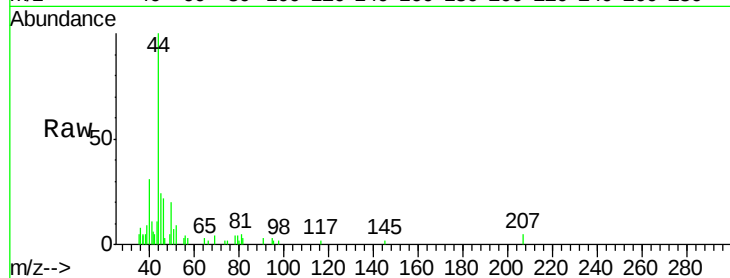
BP-VPB201R-GW-758-760RE

Tgt Ion: 50 Resp: 1647

Ion Ratio Lower Upper

50 100

52 43.3 27.2 40.8#



#11

Tert butyl alcohol

Concen: 12.028 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.00 min

Lab File: VW009688.D

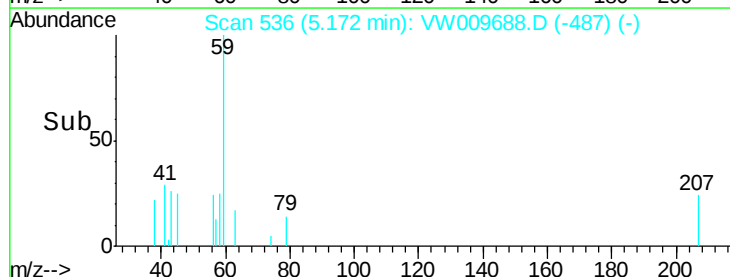
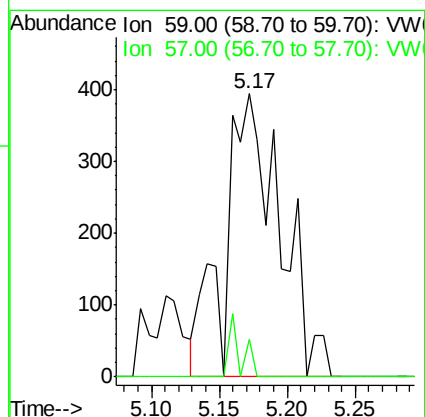
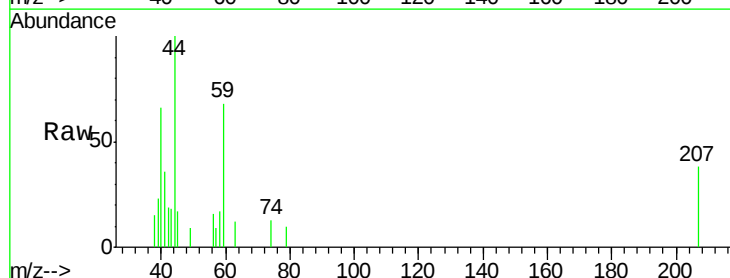
Acq: 04 Apr 2019 11:27

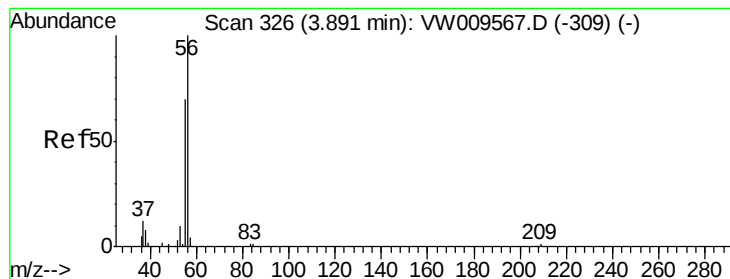
Tgt Ion: 59 Resp: 1119

Ion Ratio Lower Upper

59 100

57 4.6 9.4 14.0#





#13

Acrolein

Concen: 2.374 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

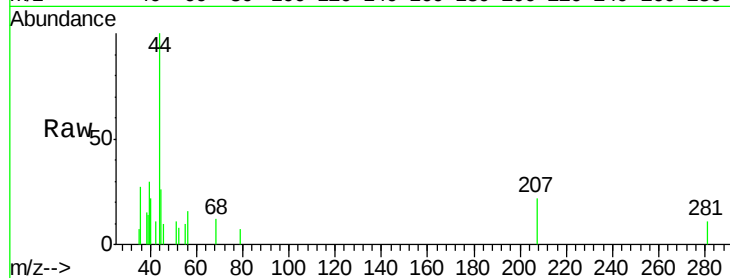
BP-VPB201R-GW-758-760RE

Tgt Ion: 56 Resp: 162

Ion Ratio Lower Upper

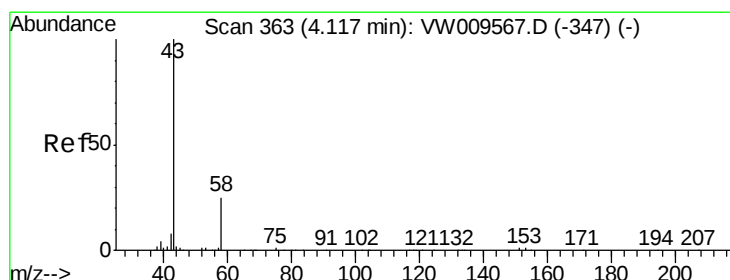
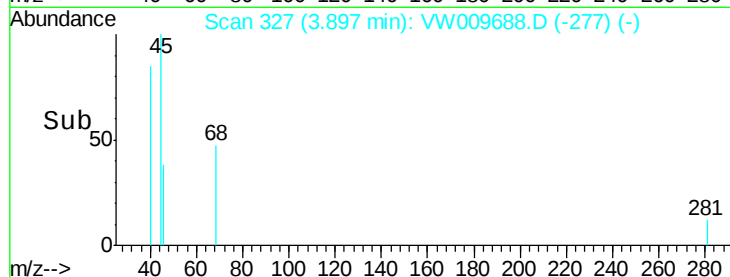
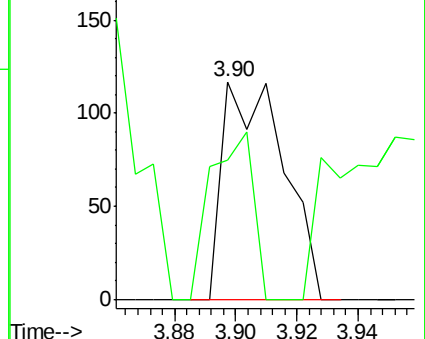
56 100

55 53.1 55.2 82.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 94.111 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW009688.D

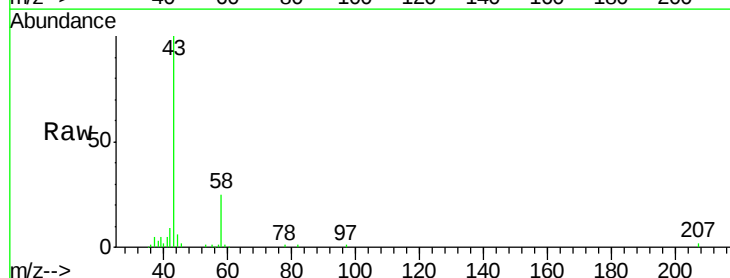
Acq: 04 Apr 2019 11:27

Tgt Ion: 43 Resp: 33952

Ion Ratio Lower Upper

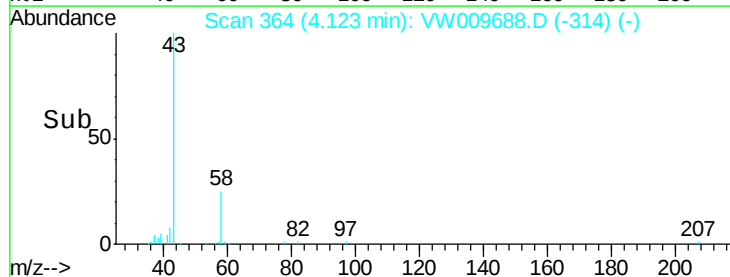
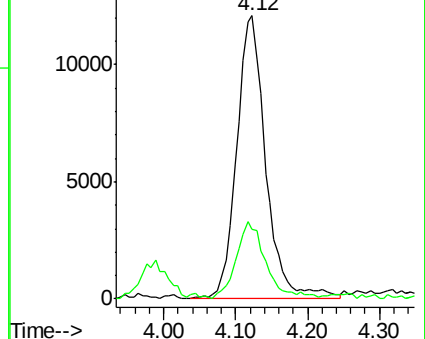
43 100

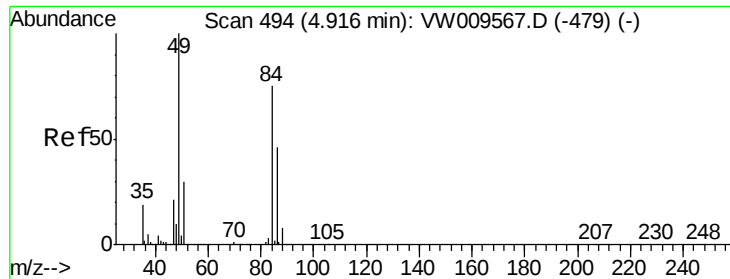
58 23.3 23.6 35.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

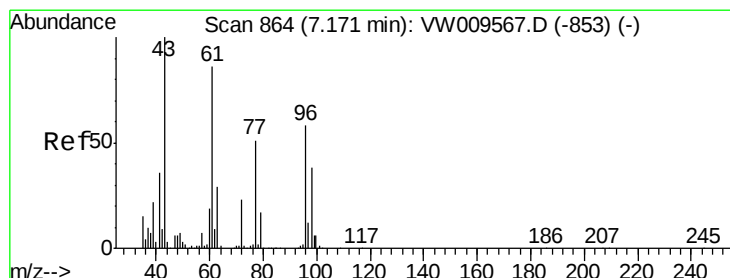
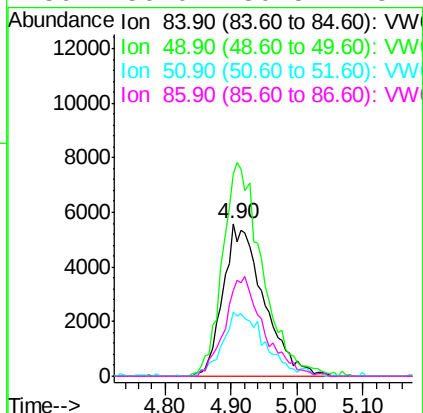
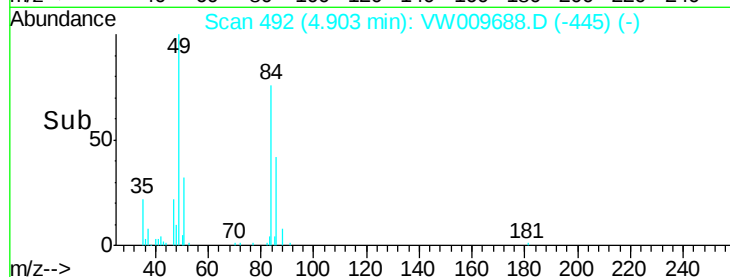
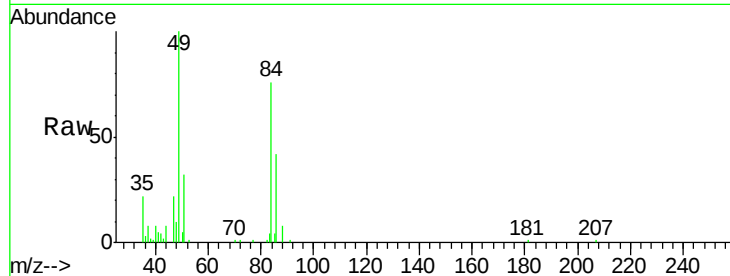




#20
Methylene Chloride
Concen: 13.944 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

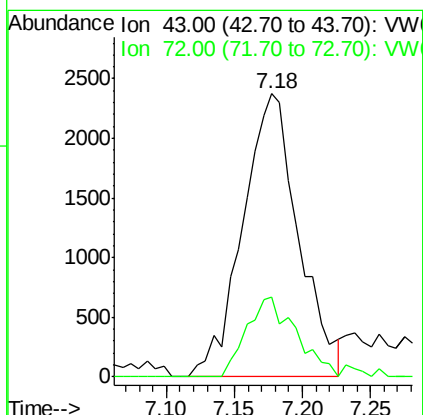
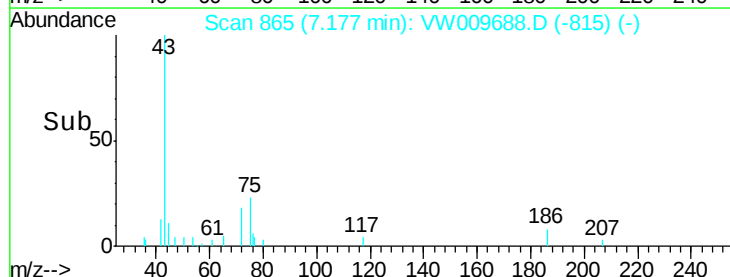
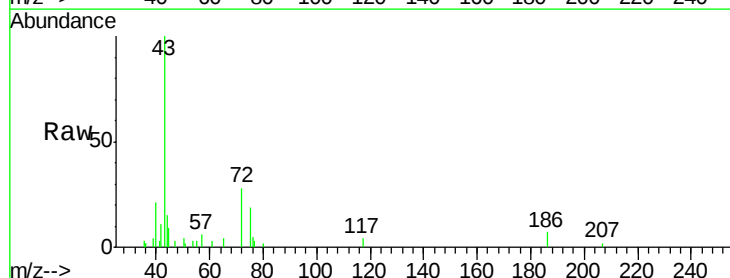
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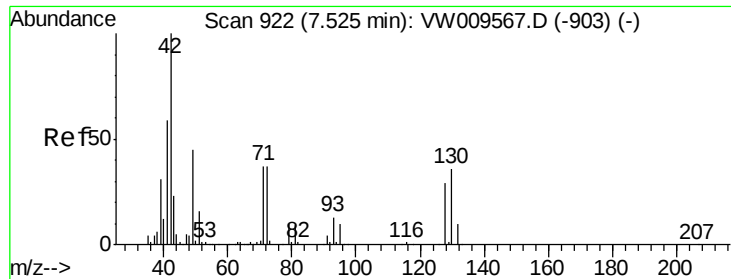
Tgt Ion: 84 Resp: 23694
Ion Ratio Lower Upper
84 100
49 132.2 99.1 148.7
51 41.8 28.7 43.1
86 56.0 50.5 75.7



#25
2-Butanone
Concen: 13.674 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

Tgt Ion: 43 Resp: 6817
Ion Ratio Lower Upper
43 100
72 28.3 20.0 30.0

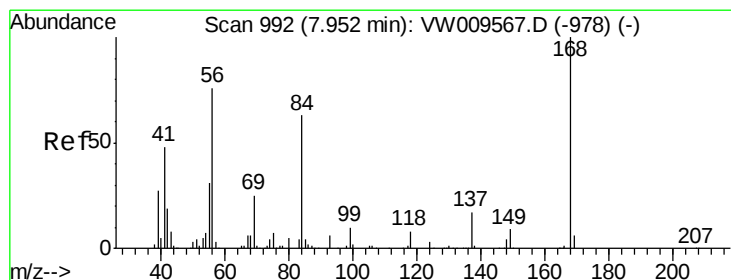
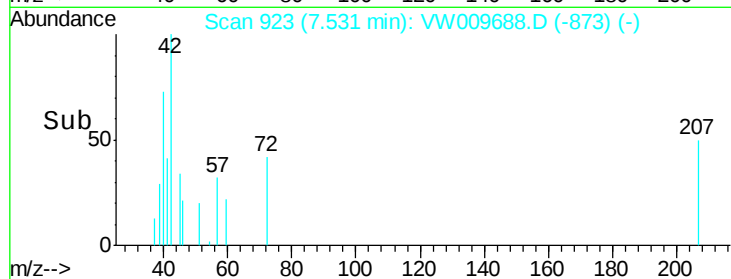
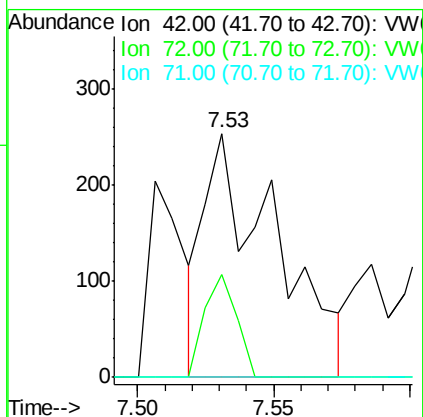
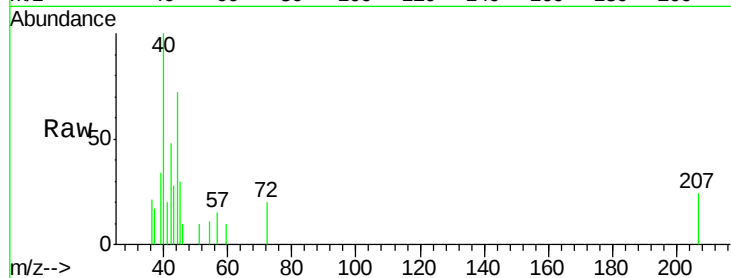




#29
Tetrahydrofuran
Concen: 1.486 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

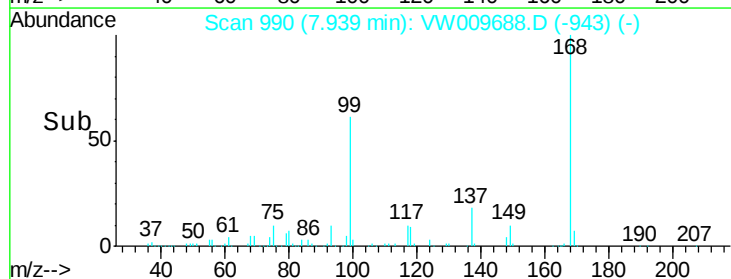
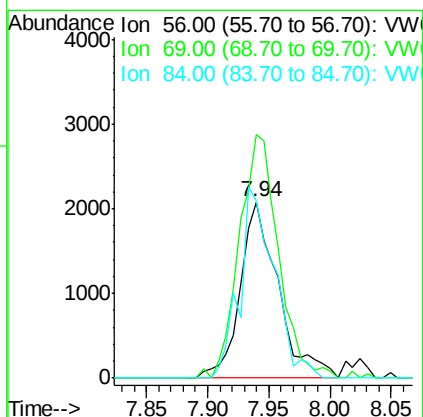
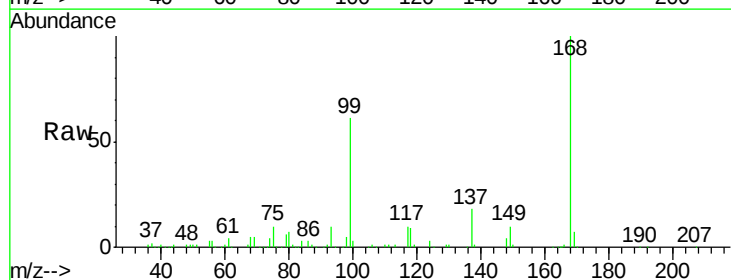
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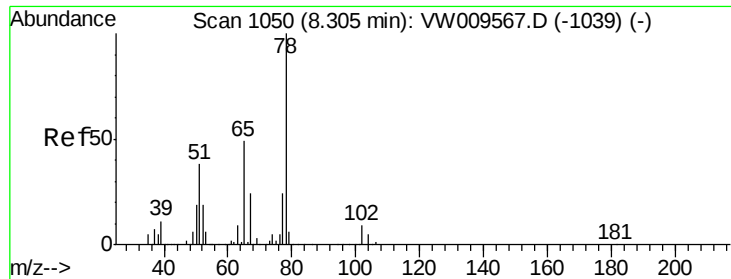
Tgt Ion: 42 Resp: 460
Ion Ratio Lower Upper
42 100
72 18.9 32.4 48.6#
71 0.0 30.1 45.1#



#31
Cyclohexane
Concen: 1.699 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

Tgt Ion: 56 Resp: 4485
Ion Ratio Lower Upper
56 100
69 138.5 26.1 39.1#
84 100.5 68.6 103.0





#33

1,2-Dichloroethane-d4

Concen: 58.167 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

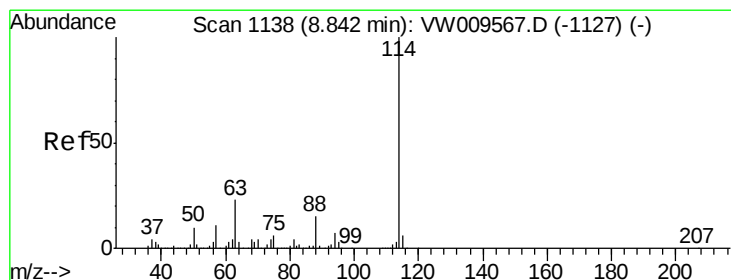
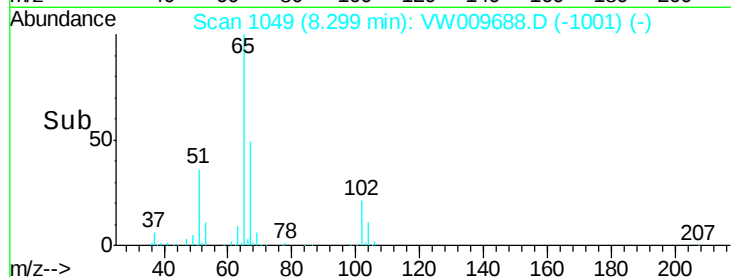
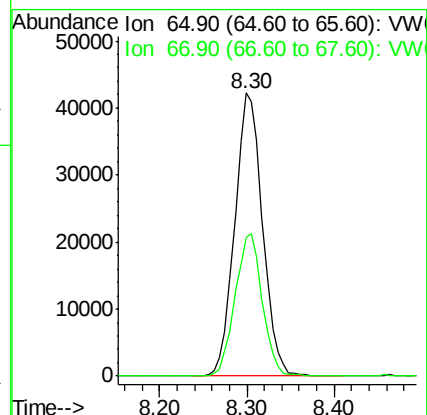
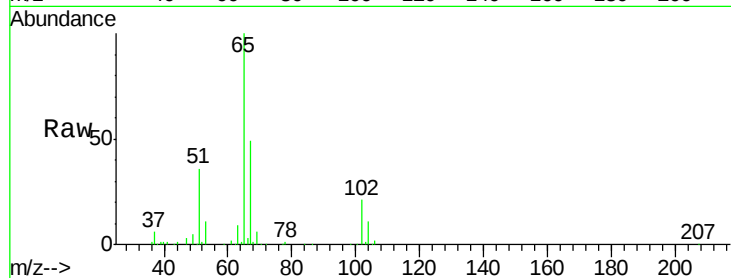
BP-VPB201R-GW-758-760RE

Tgt Ion: 65 Resp: 93334

Ion Ratio Lower Upper

65 100

67 49.2 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

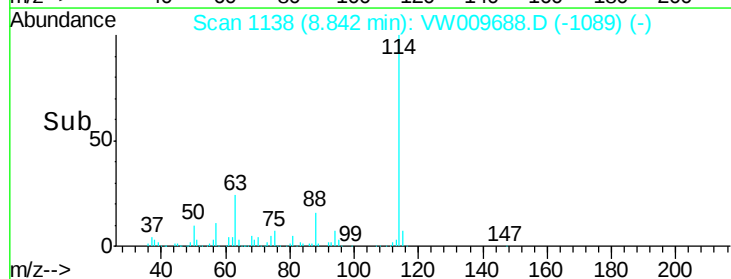
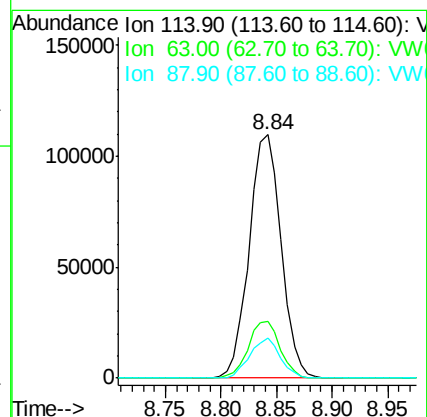
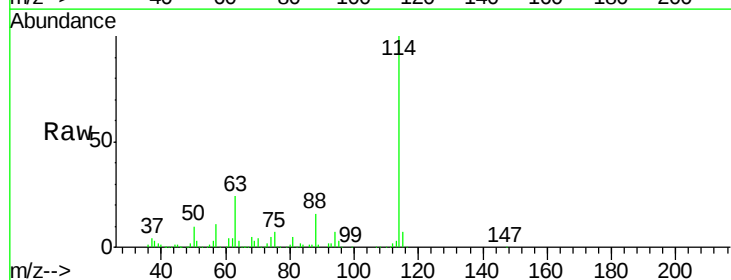
Tgt Ion: 114 Resp: 219969

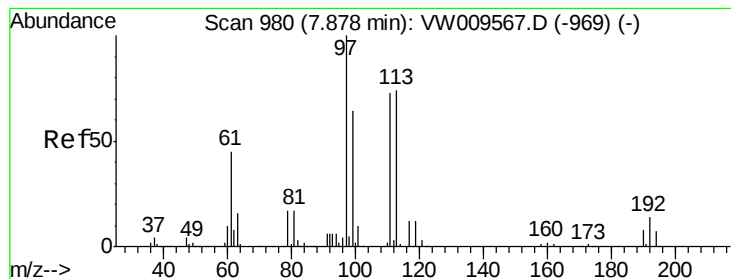
Ion Ratio Lower Upper

114 100

63 23.5 0.0 42.2

88 16.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.785 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

BP-VPB201R-GW-758-760RE

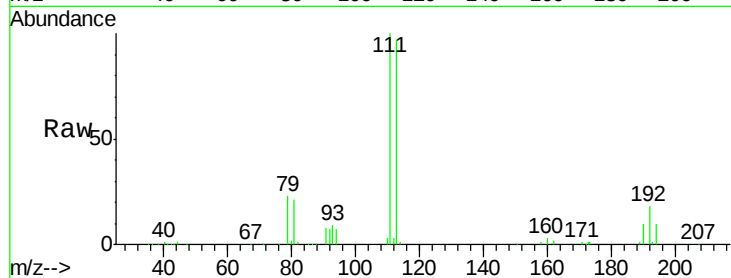
Tgt Ion:113 Resp: 70164

Ion Ratio Lower Upper

113 100

111 101.9 82.6 124.0

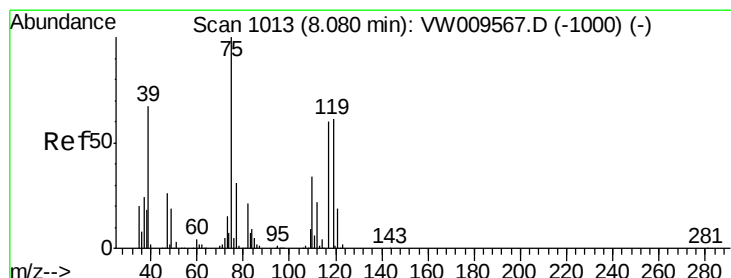
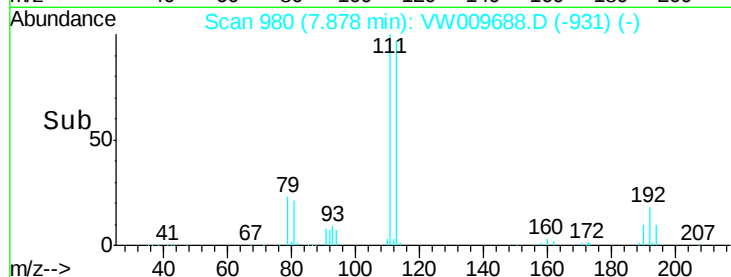
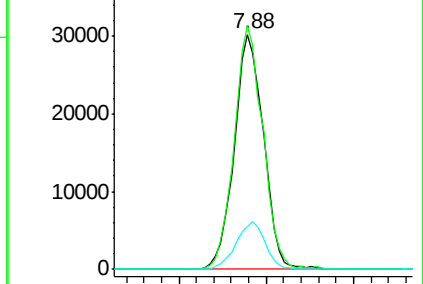
192 20.1 16.4 24.6



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: 5.459 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

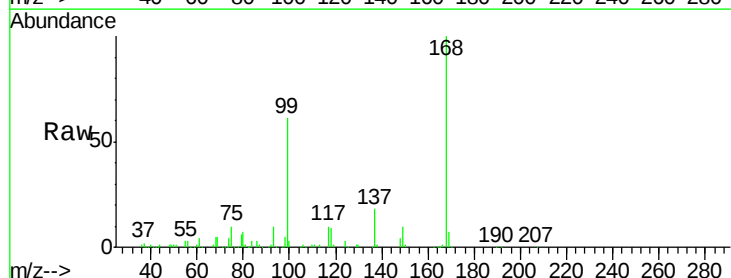
Tgt Ion: 75 Resp: 12420

Ion Ratio Lower Upper

75 100

110 9.2 16.8 50.4#

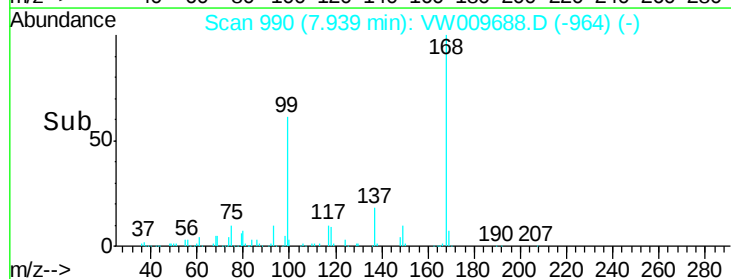
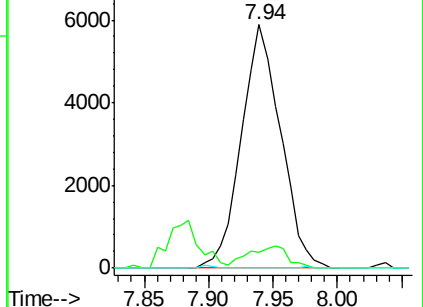
77 0.0 24.6 36.8#

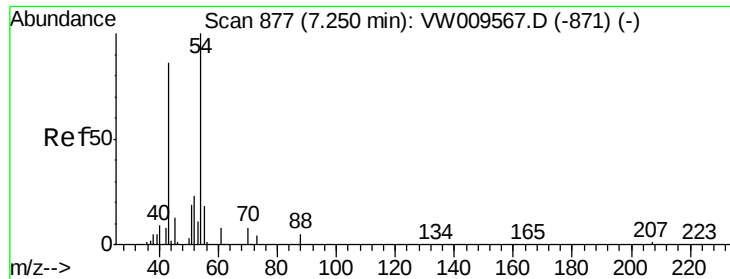


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

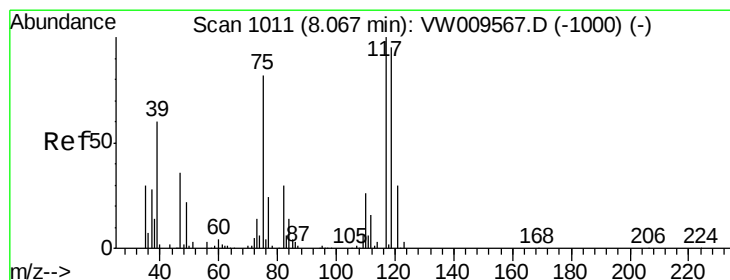
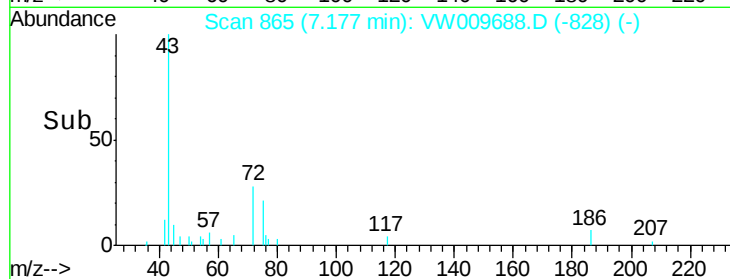
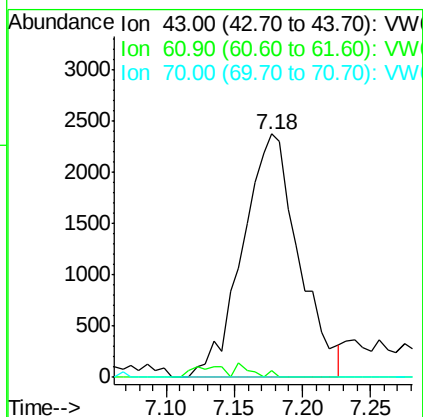
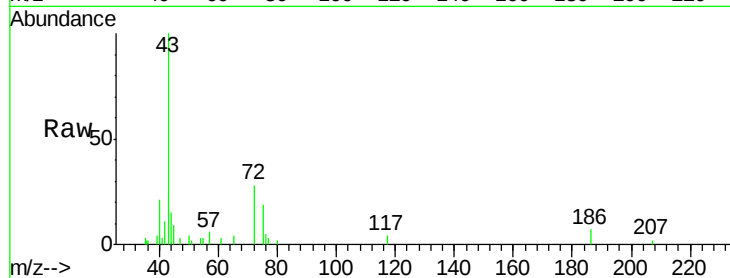




#37
Ethyl Acetate
Concen: 6.307 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.07 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

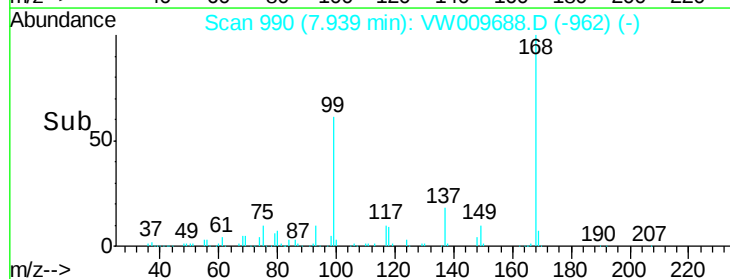
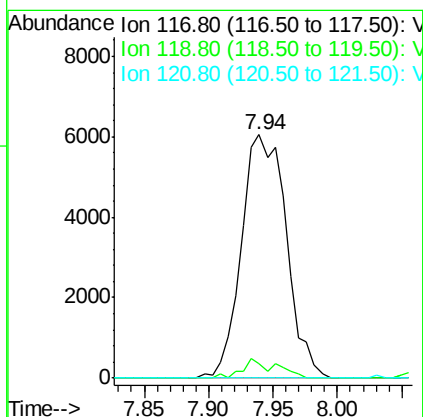
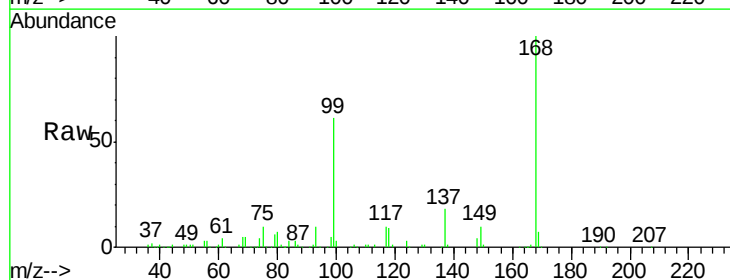
Instrument :
MSVOA_W
ClientSampleId :
BP-VPB201R-GW-758-760RE

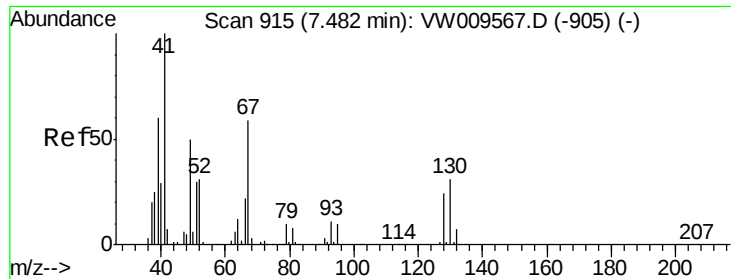
Tgt Ion: 43 Resp: 6817
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.3 10.9#



#38
Carbon Tetrachloride
Concen: 6.244 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

Tgt Ion: 117 Resp: 14556
Ion Ratio Lower Upper
117 100
119 5.9 75.4 113.0#
121 0.0 24.9 37.3#

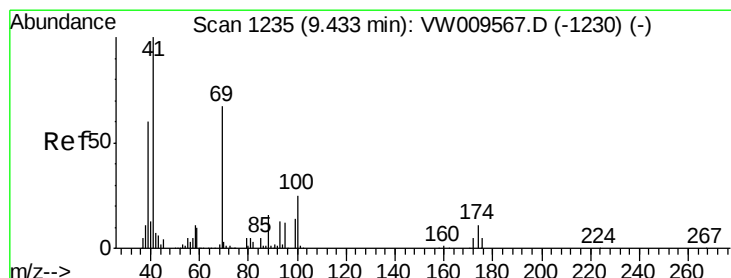
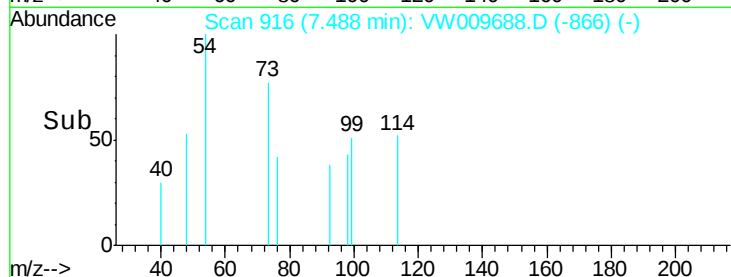
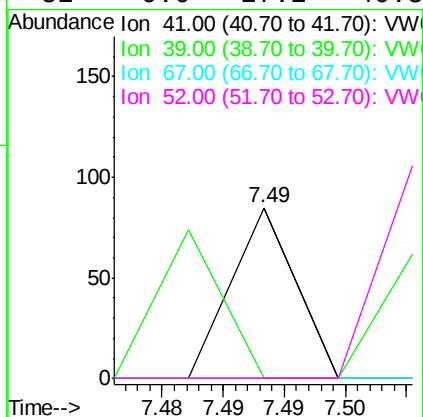
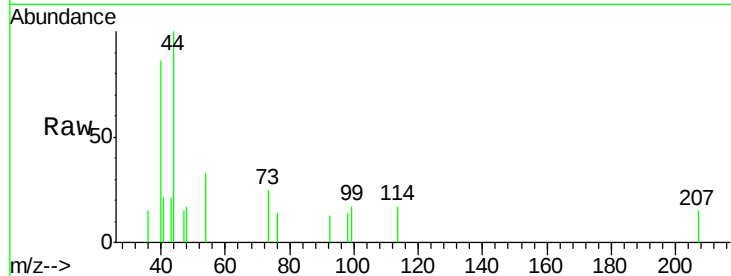




#41
Methacrylonitrile
Concen: 3.962 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

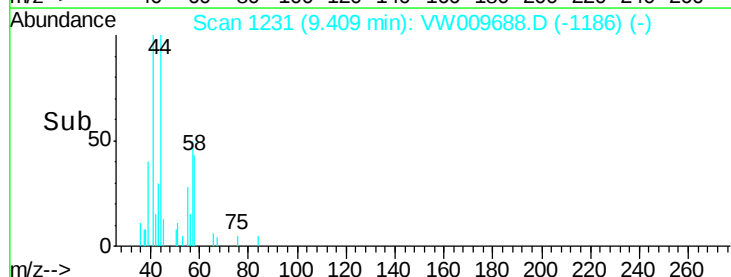
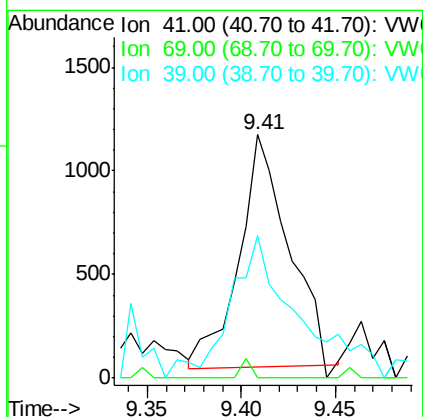
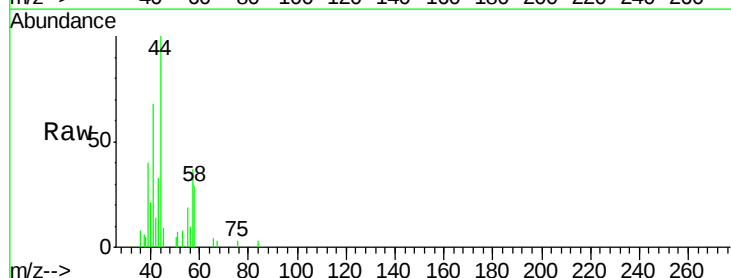
Instrument :
MSVOA_W
ClientSampleId :
BP-VPB201R-GW-758-760RE

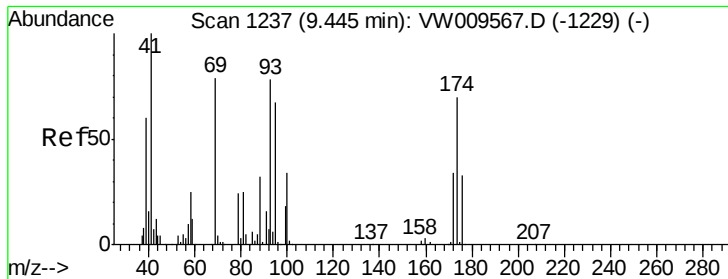
Tgt Ion:	41	Resp:	31
Ion	Ratio	Lower	Upper
41	100		
39	87.1	52.5	78.7#
67	0.0	56.6	84.8#
52	0.0	27.2	40.8#



#48
Methyl methacrylate
Concen: 2.059 ug/l
RT: 9.41 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

Tgt Ion:	41	Resp:	2045
Ion	Ratio	Lower	Upper
41	100		
69	1.7	63.0	94.6#
39	80.4	57.2	85.8

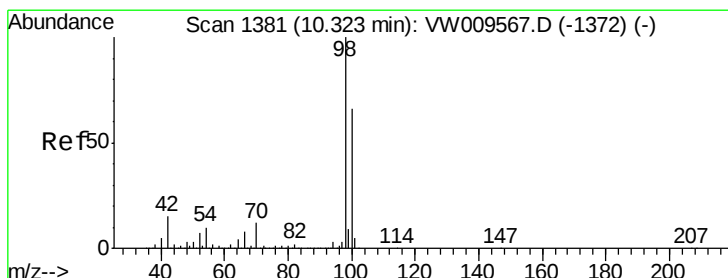
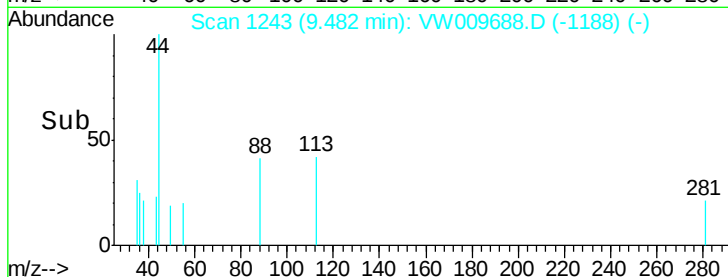
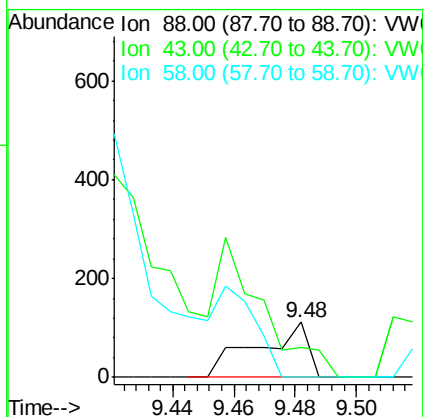
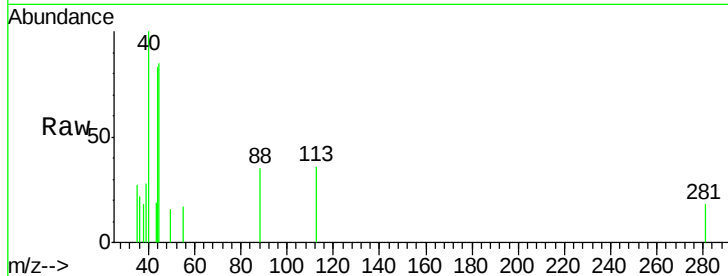




#49
1,4-Dioxane
Concen: 9.980 ug/l
RT: 9.48 min Scan# 1243
Delta R.T. 0.04 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

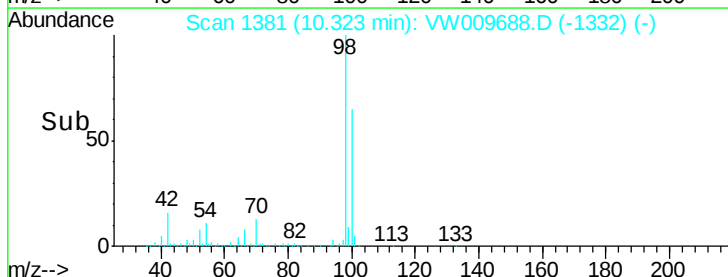
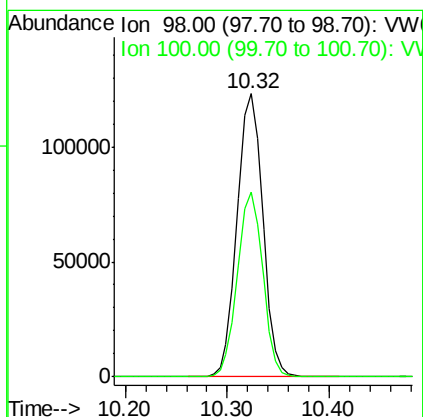
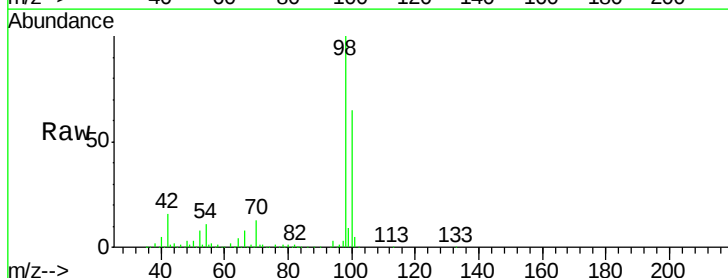
Instrument :
MSVOA_W
ClientSampleId :
BP-VPB201R-GW-758-760RE

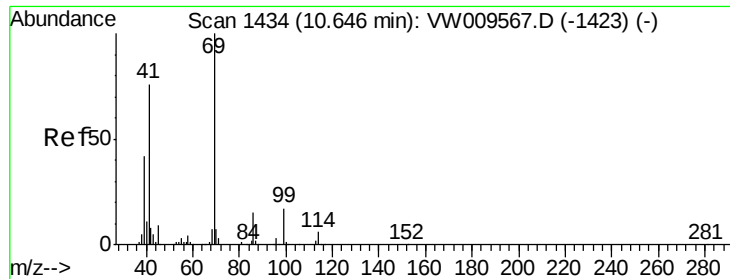
Tgt Ion: 88 Resp: 127
Ion Ratio Lower Upper
88 100
43 0.0 29.7 44.5#
58 0.0 58.1 87.1#



#50
Toluene-d8
Concen: 42.162 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

Tgt Ion: 98 Resp: 215298
Ion Ratio Lower Upper
98 100
100 64.4 52.6 79.0





#56

Ethyl methacrylate

Concen: 3.809 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

BP-VPB201R-GW-758-760RE

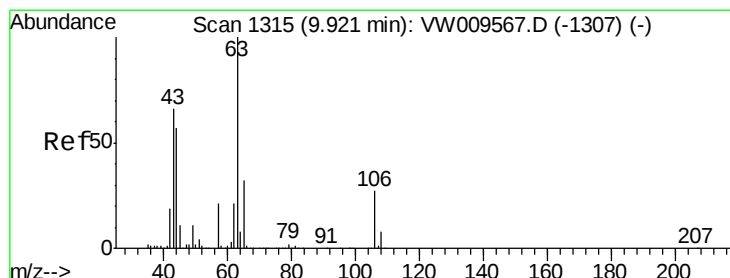
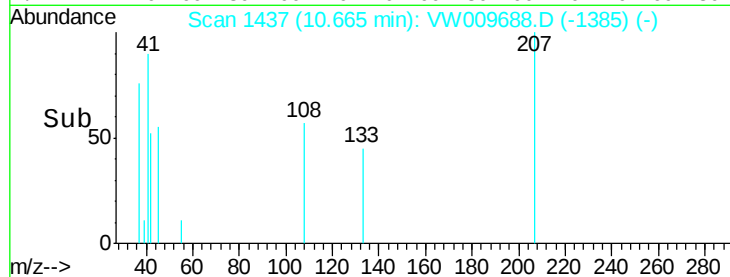
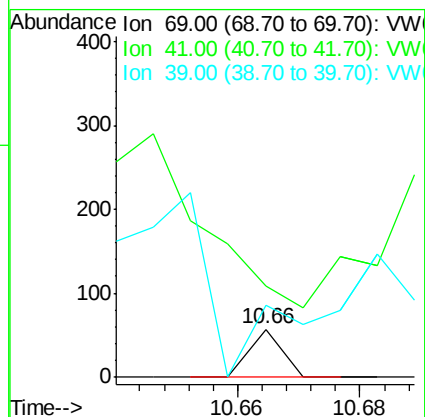
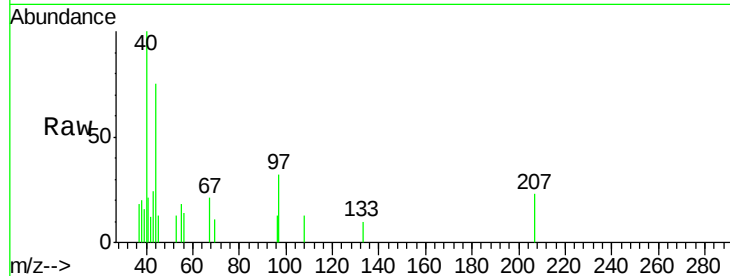
Tgt Ion: 69 Resp: 21

Ion Ratio Lower Upper

69 100

41 0.0 59.3 88.9#

39 0.0 36.2 54.2#



#58

2-Chloroethyl Vinyl ether

Concen: 17.180 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VW009688.D

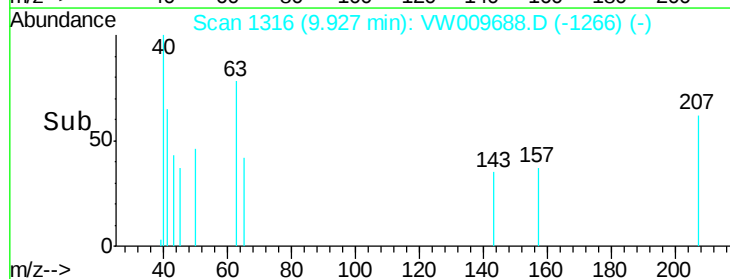
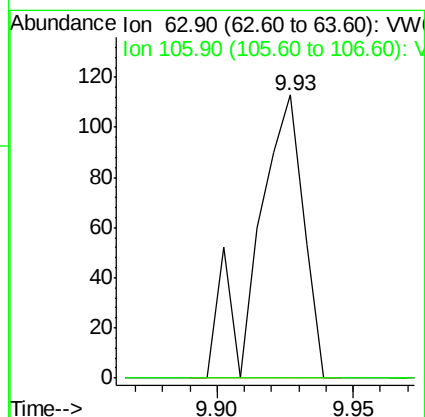
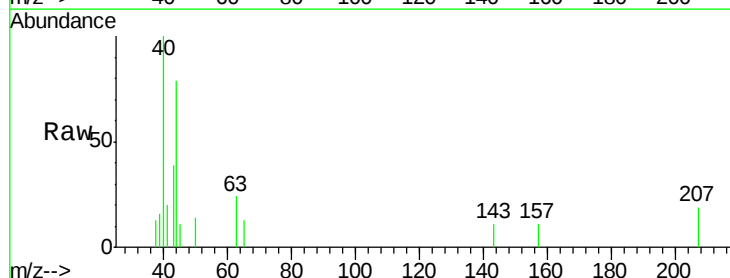
Acq: 04 Apr 2019 11:27

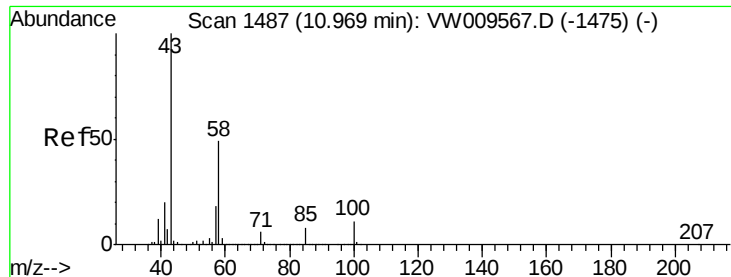
Tgt Ion: 63 Resp: 135

Ion Ratio Lower Upper

63 100

106 0.0 22.9 34.3#

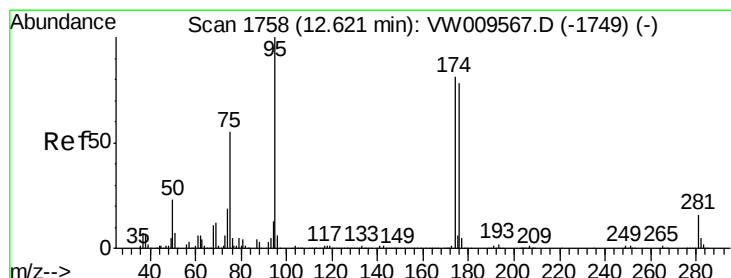
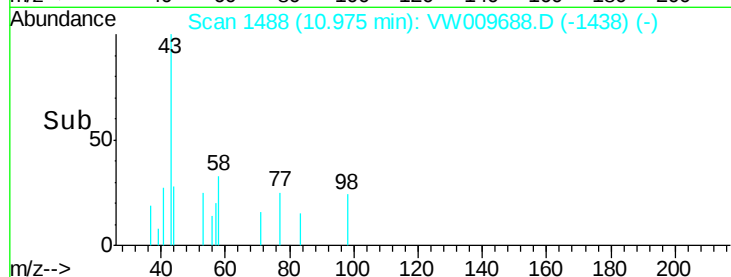
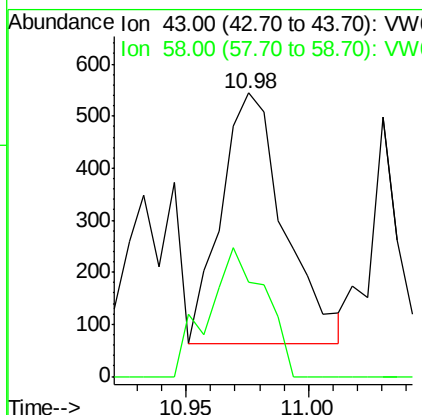
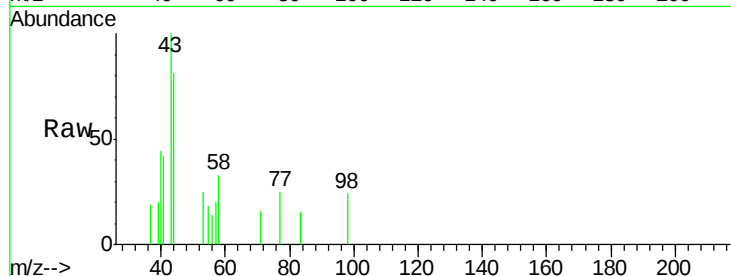




#59
2-Hexanone
Concen: 1.103 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. 0.01 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

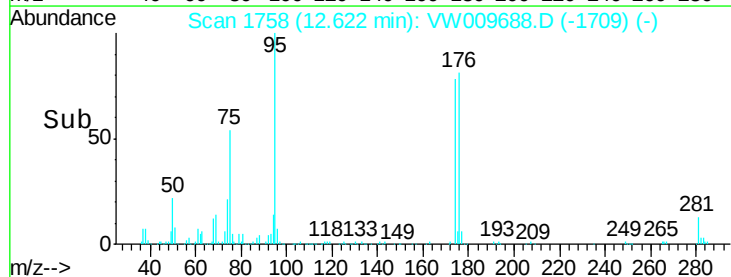
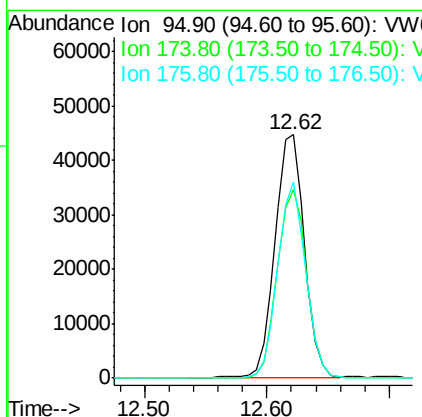
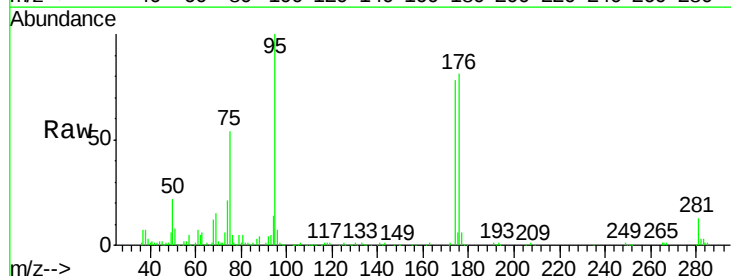
Instrument :
MSVOA_W
ClientSampleId :
BP-VPB201R-GW-758-760RE

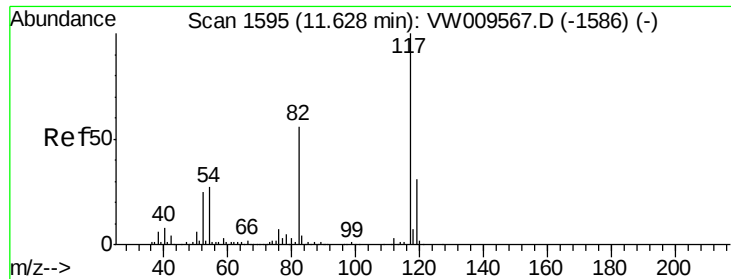
Tgt Ion: 43 Resp: 865
Ion Ratio Lower Upper
43 100
58 46.1 24.2 72.6



#62
4-Bromofluorobenzene
Concen: 39.422 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW009688.D
Acq: 04 Apr 2019 11:27

Tgt Ion: 95 Resp: 75099
Ion Ratio Lower Upper
95 100
174 77.1 0.0 168.4
176 76.4 0.0 161.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.01 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

BP-VPB201R-GW-758-760RE

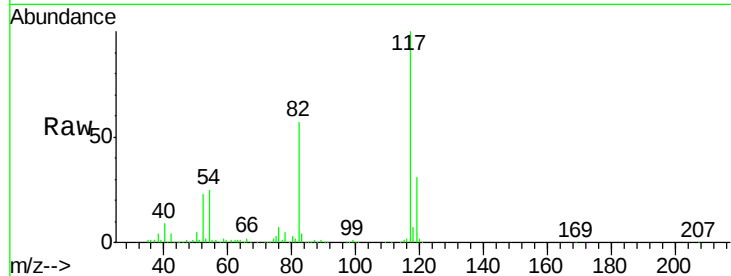
Tgt Ion:117 Resp: 186141

Ion Ratio Lower Upper

117 100

82 56.7 43.6 65.4

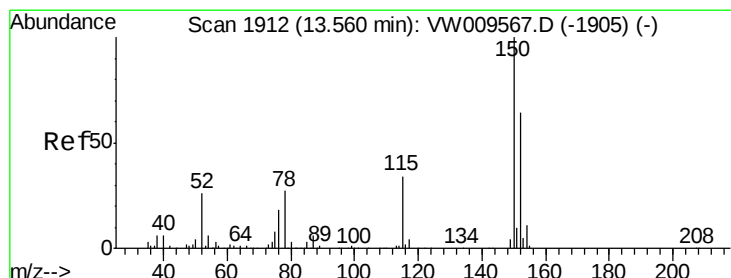
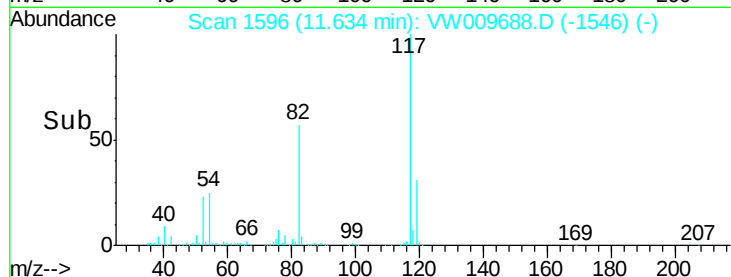
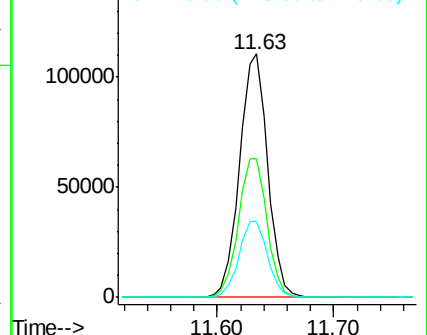
119 31.0 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

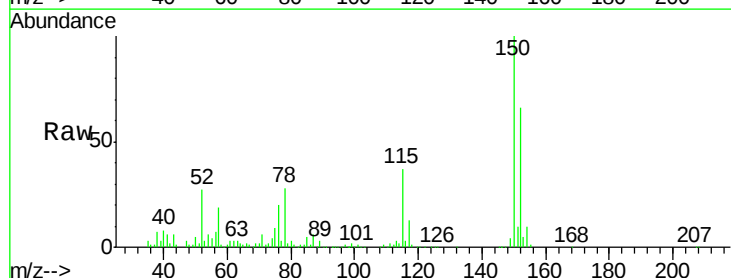
Tgt Ion:152 Resp: 76876

Ion Ratio Lower Upper

152 100

115 60.1 29.6 88.8

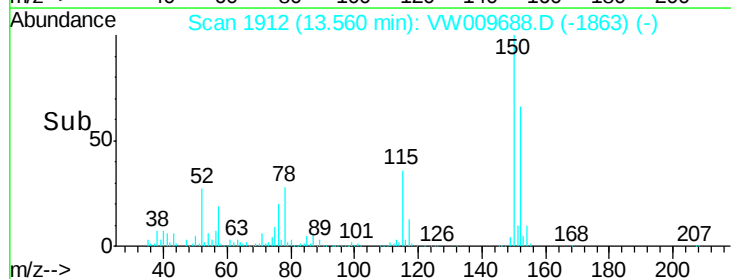
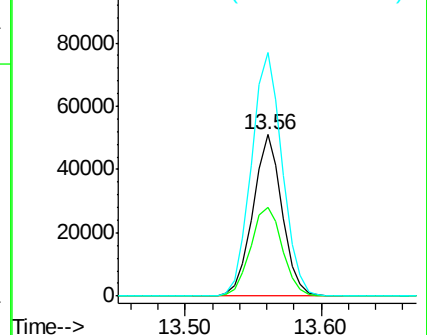
150 159.5 0.0 349.2

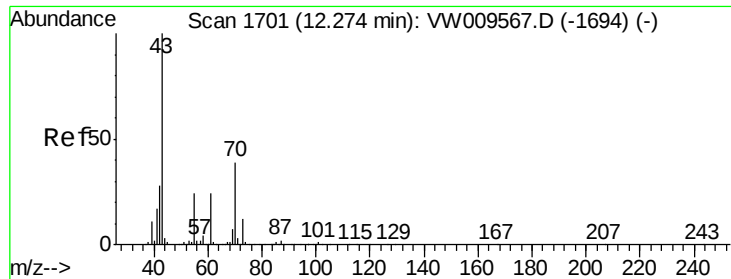


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 2.068 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

BP-VPB201R-GW-758-760RE

Tgt Ion: 43 Resp: 2916

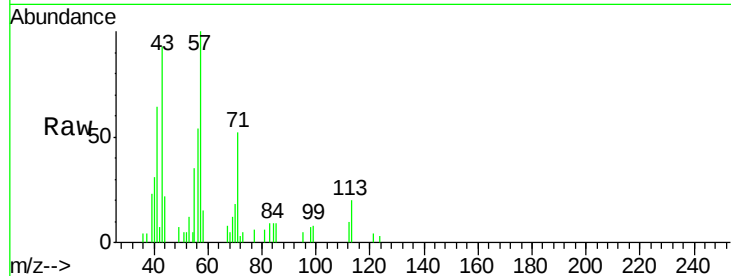
Ion Ratio Lower Upper

43 100

70 16.7 30.6 46.0#

55 28.8 19.3 28.9

61 0.8 17.0 25.4#

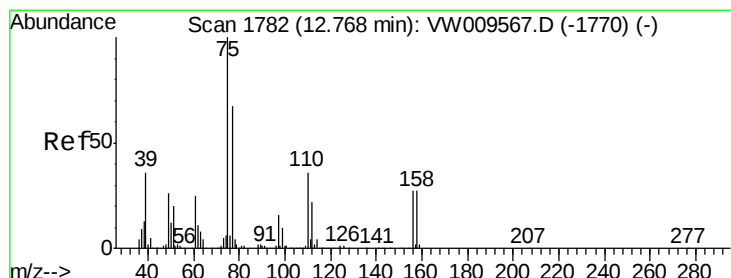
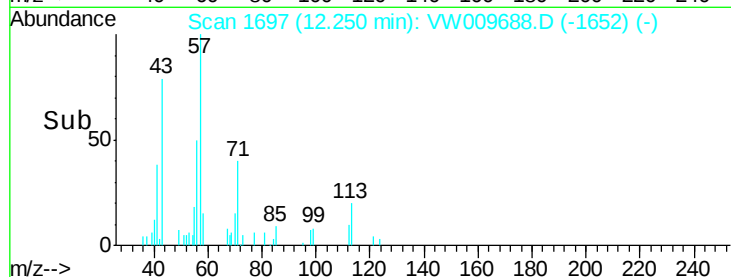
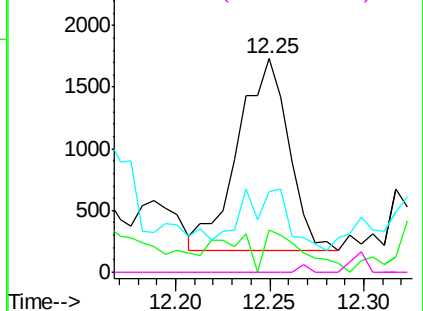


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#76

1,2,3-Trichloropropane

Concen: 58.830 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW009688.D

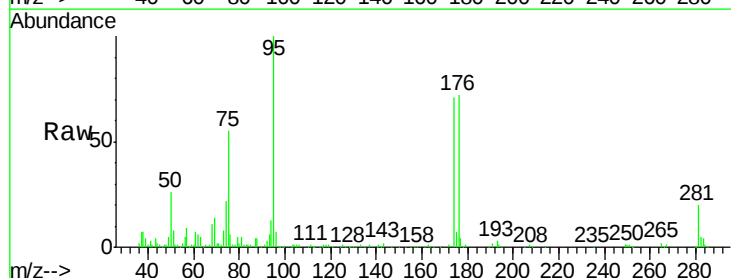
Acq: 04 Apr 2019 11:27

Tgt Ion: 75 Resp: 42530

Ion Ratio Lower Upper

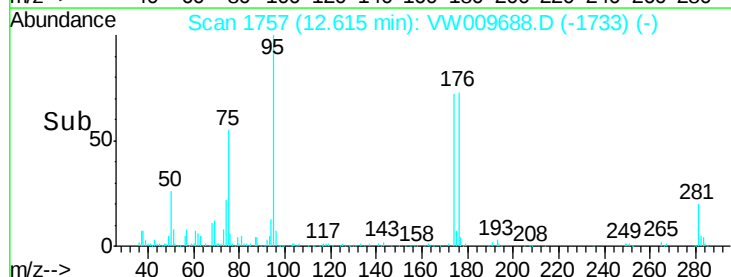
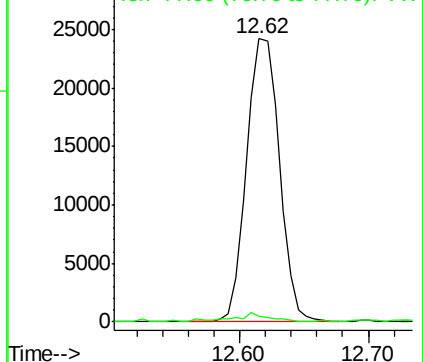
75 100

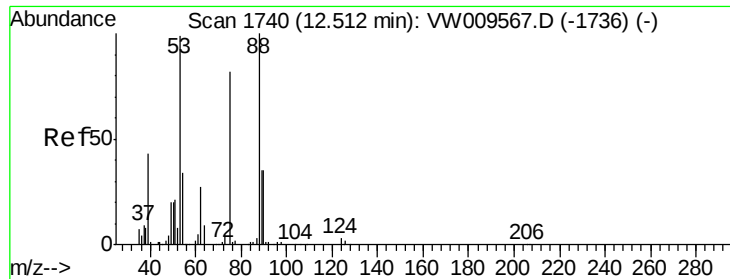
77 3.7 0.0 0.0#



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: 136.807 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

BP-VPB201R-GW-758-760RE

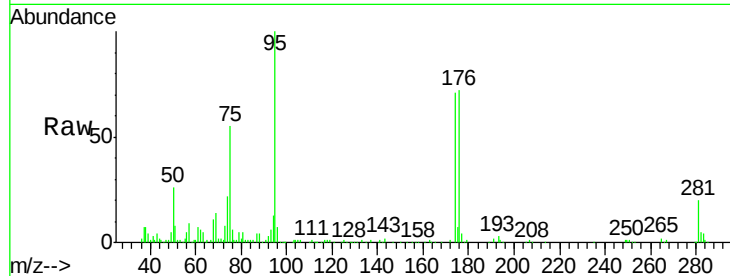
Tgt Ion: 75 Resp: 42530

Ion Ratio Lower Upper

75 100

53 0.0 86.7 130.1#

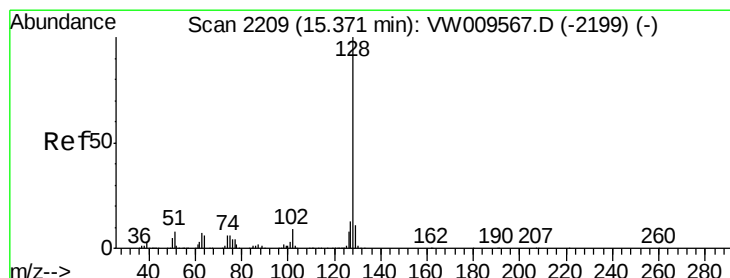
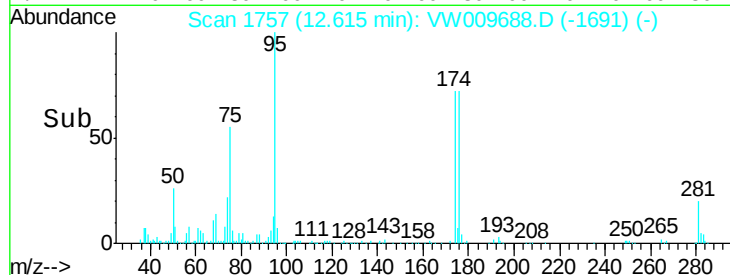
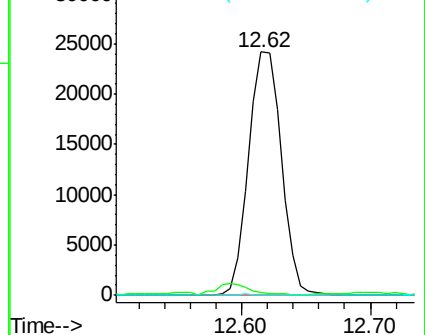
89 0.0 36.4 54.6#



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



#95

Naphthalene

Concen: 3.211 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW009688.D

Acq: 04 Apr 2019 11:27

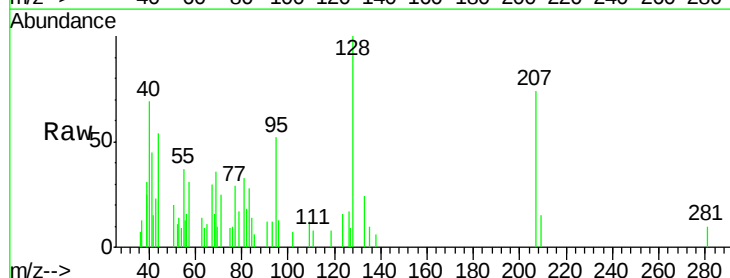
Tgt Ion: 128 Resp: 1540

Ion Ratio Lower Upper

128 100

127 14.0 10.8 16.2

129 14.0 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

