

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032919\
 Data File : VW009579.D
 Acq On : 29 Mar 2019 18:42
 Operator : SY/VA
 Sample : K2139-07
 Misc : 5.47G/5ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 S7B(14)

Quant Time: Mar 30 04:29:04 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	237483	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	410830	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	364538	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	163329	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	176304	64.92	ug/l	0.00
Spiked Amount			Recovery	=	129.84%	
35) Dibromofluoromethane	7.88	113	142601	55.26	ug/l	0.00
Spiked Amount			Recovery	=	110.52%	
50) Toluene-d8	10.32	98	502238	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
62) 4-Bromofluorobenzene	12.62	95	163664	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	

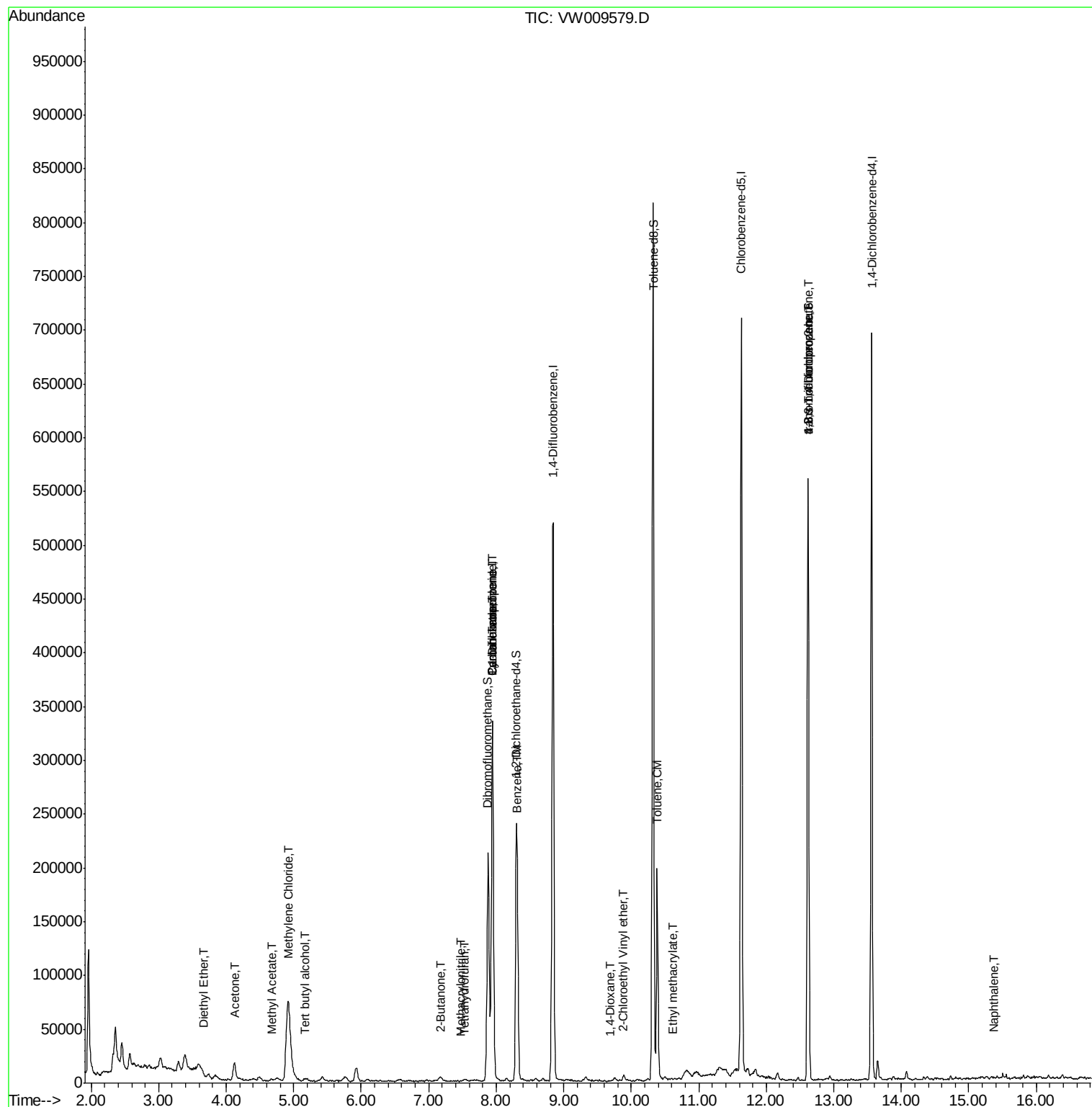
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.03	85	43	Below Cal	#	41
8) Diethyl Ether	3.67	74	1355	1.105	ug/l	88
11) Tert butyl alcohol	5.17	59	1717	10.905	ug/l #	86
16) Acetone	4.12	43	27195	44.539	ug/l	94
18) Methyl Acetate	4.68	43	3455	2.341	ug/l	95
20) Methylene Chloride	4.92	84	76943	30.617	ug/l	98
25) 2-Butanone	7.18	43	4888	5.793	ug/l #	86
29) Tetrahydrofuran	7.52	42	871	1.662	ug/l #	48
31) Cyclohexane	7.95	56	7401	1.657	ug/l #	45
36) 1,1-Dichloropropene	7.94	75	20578	4.843	ug/l #	51
38) Carbon Tetrachloride	7.95	117	25564	5.871	ug/l #	18
40) Benzene	8.32	78	20760	1.804	ug/l	96
41) Methacrylonitrile	7.46	41	158	4.032	ug/l #	57
49) 1,4-Dioxane	9.68	88	27	1.136	ug/l #	1
52) Toluene	10.38	92	77408	10.739	ug/l	99
56) Ethyl methacrylate	10.62	69	361	3.908	ug/l #	19
58) 2-Chloroethyl Vinyl ether	9.88	63	22	17.031	ug/l #	46
76) 1,2,3-Trichloropropane	12.62	75	93742	61.033	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	93742	141.930	ug/l #	7
95) Naphthalene	15.36	128	1473	2.942	ug/l #	83

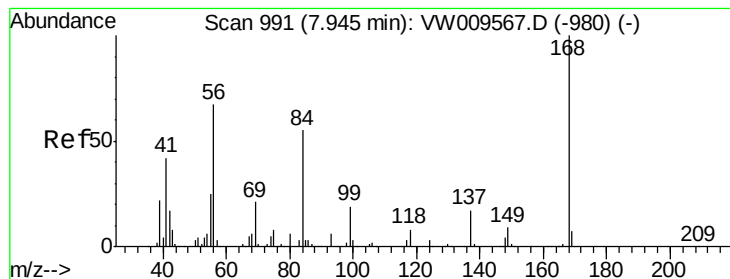
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 29 13:24:53 2019
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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: VW009579.D

Acq: 29 Mar 2019 18:42

Instrument :

MSVOA_W

ClientSampleId :

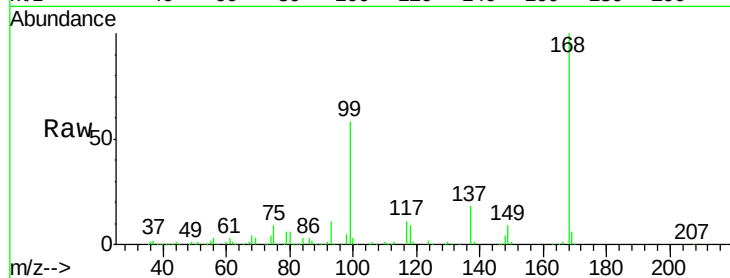
S7B(14)

Tgt Ion:168 Resp: 237483

Ion Ratio Lower Upper

168 100

99 58.0 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

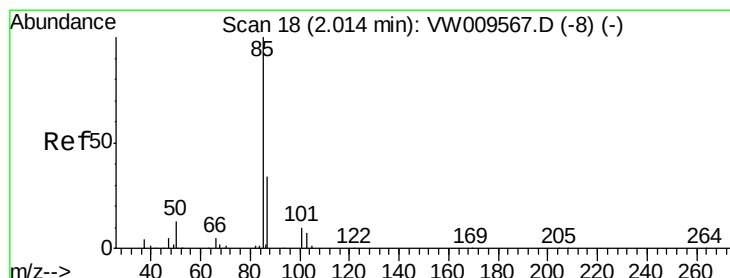
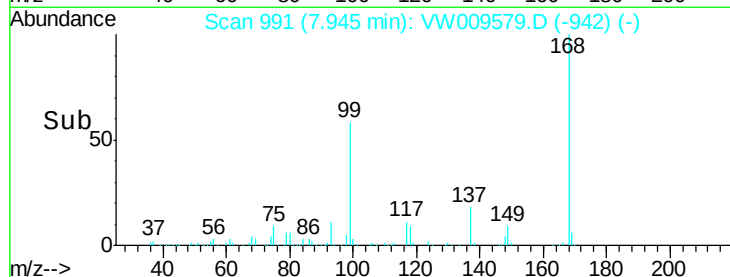
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.03 min Scan# 21

Delta R.T. 0.02 min

Lab File: VW009579.D

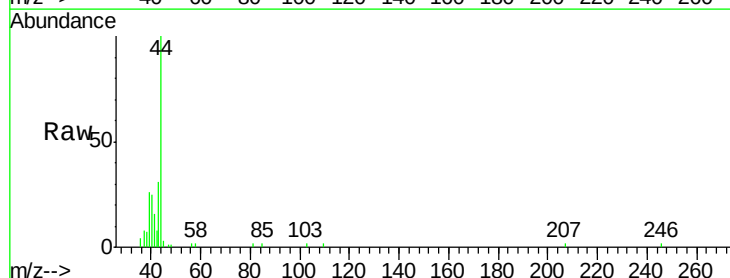
Acq: 29 Mar 2019 18:42

Tgt Ion: 85 Resp: 43

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

120

100

80

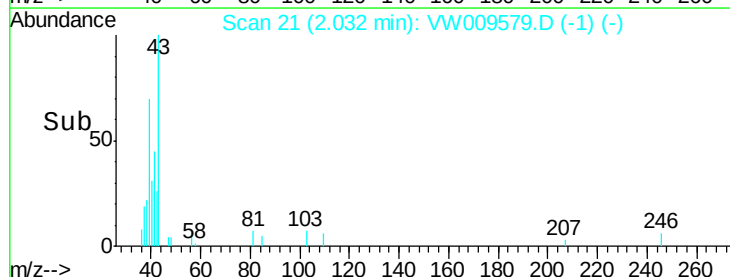
60

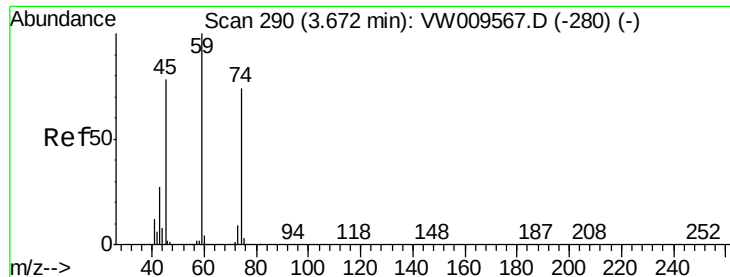
40

20

0

Time--> 2.00 2.02 2.04





#8

Diethyl Ether

Concen: 1.105 ug/l

RT: 3.67 min Scan# 289

Delta R.T. -0.01 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

Instrument :

MSVOA_W

ClientSampled :

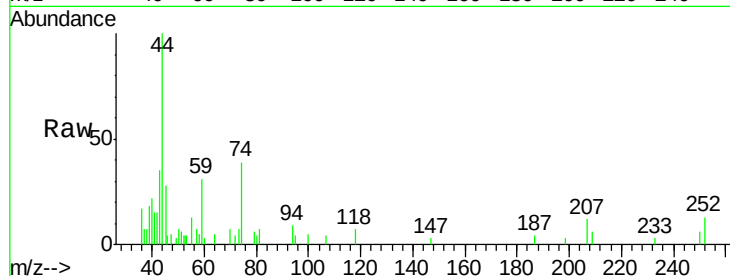
S7B(14)

Tgt Ion: 74 Resp: 1355

Ion Ratio Lower Upper

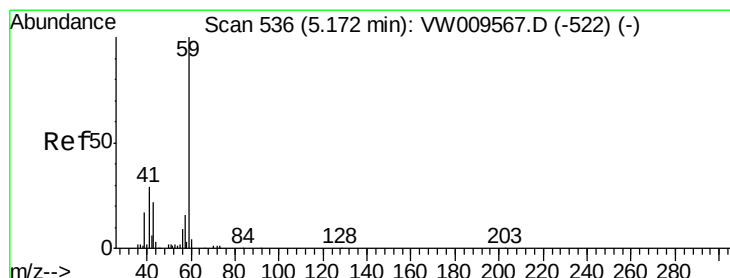
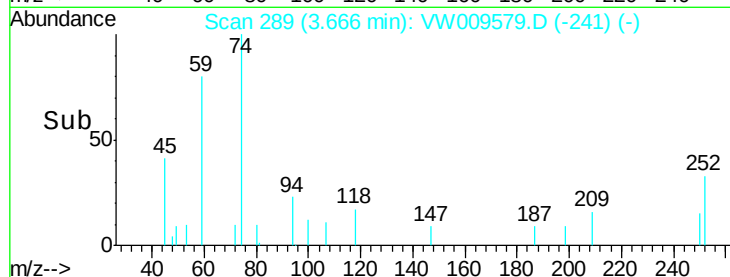
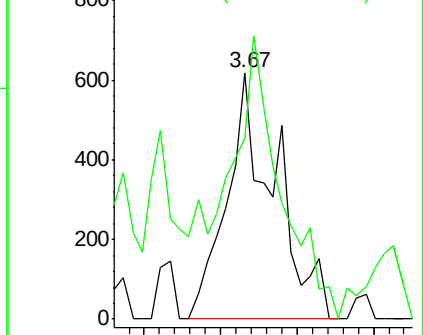
74 100

45 113.4 50.6 151.9



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



#11

Tert butyl alcohol

Concen: 10.905 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.01 min

Lab File: VW009579.D

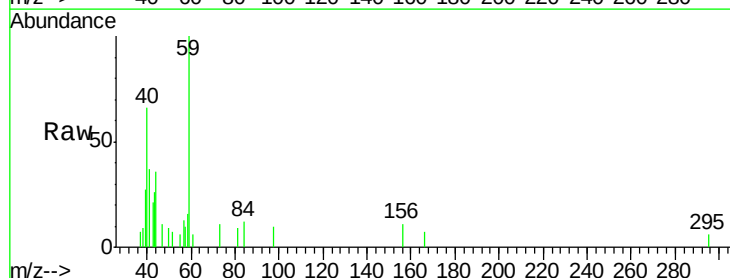
Acq: 29 Mar 2019 18:42

Tgt Ion: 59 Resp: 1717

Ion Ratio Lower Upper

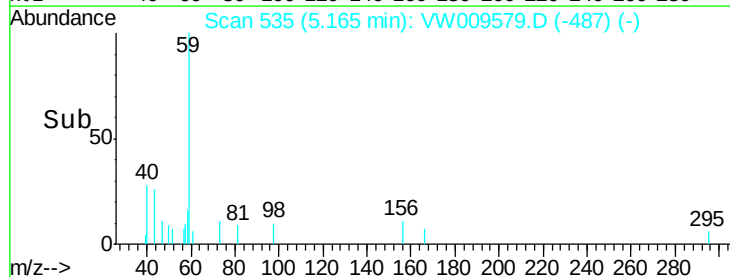
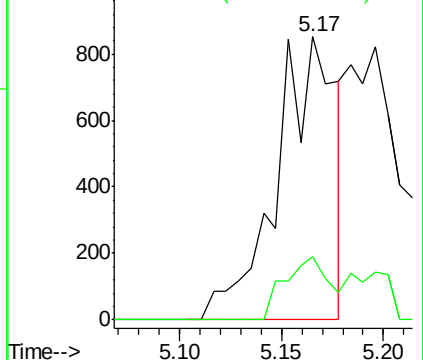
59 100

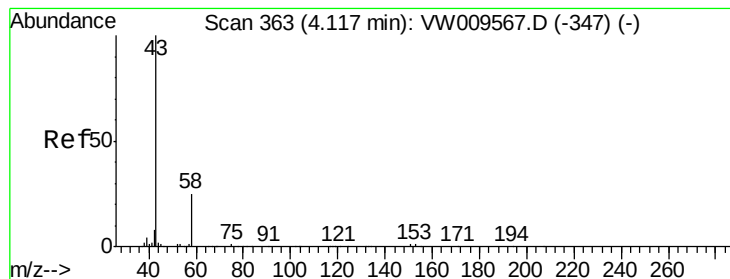
57 16.9 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 44.539 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

Instrument :

MSVOA_W

ClientSampleId :

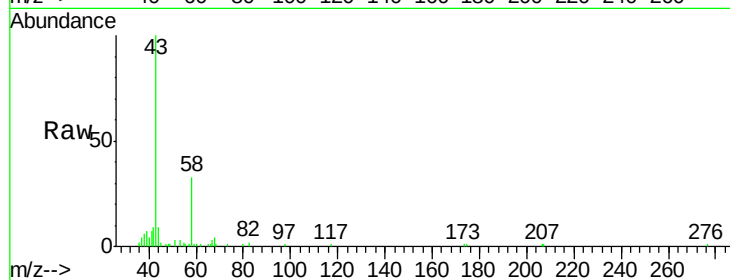
S7B(14)

Tgt Ion: 43 Resp: 27195

Ion Ratio Lower Upper

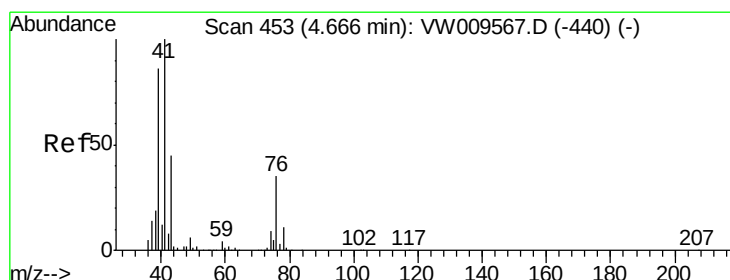
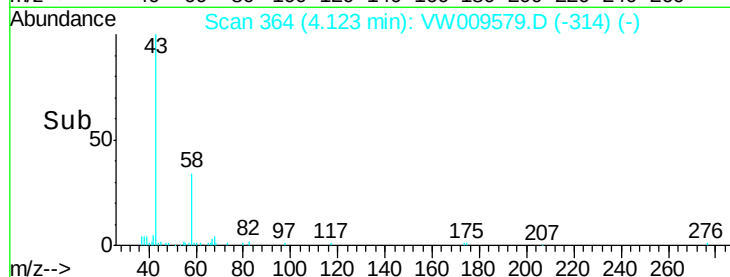
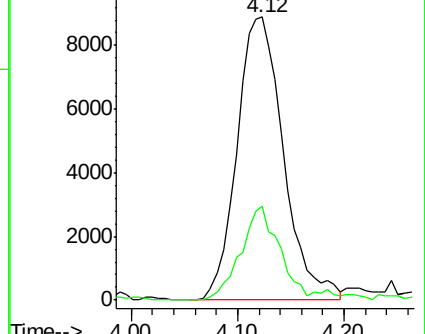
43 100

58 33.0 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 2.341 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW009579.D

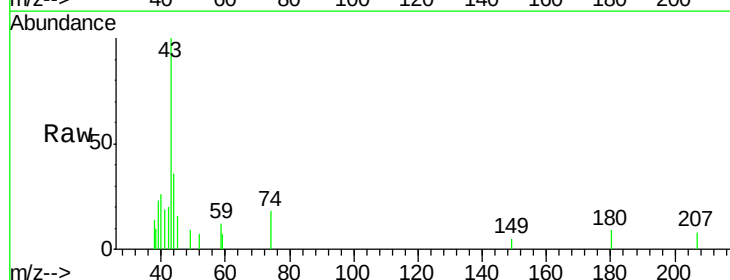
Acq: 29 Mar 2019 18:42

Tgt Ion: 43 Resp: 3455

Ion Ratio Lower Upper

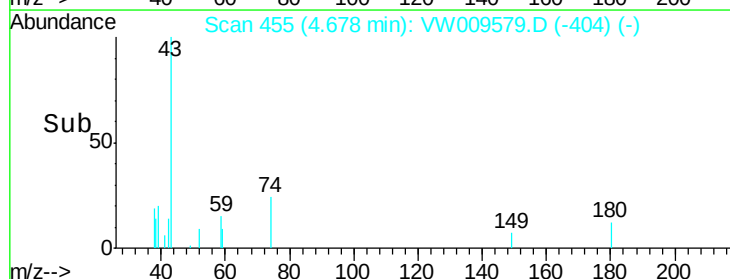
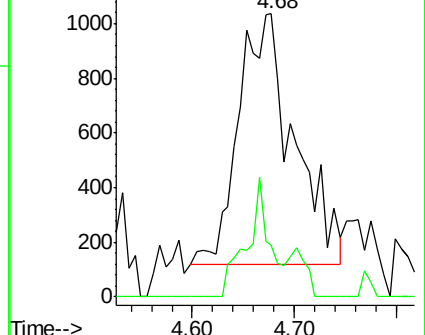
43 100

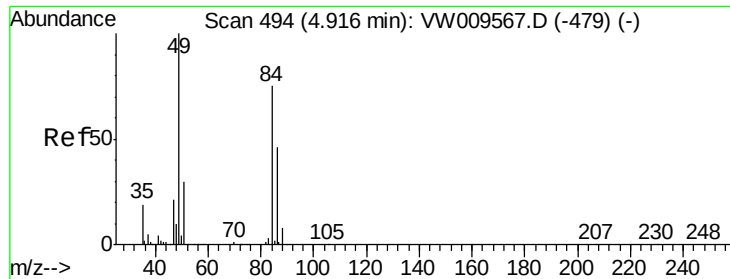
74 19.8 17.7 26.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

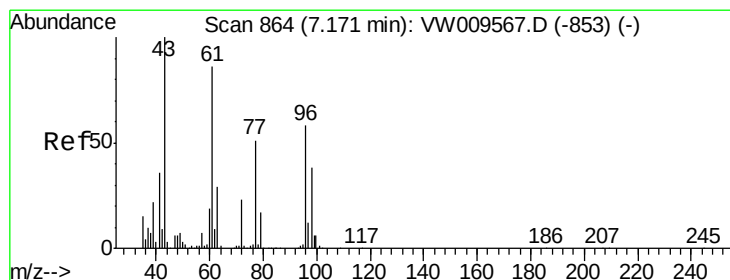
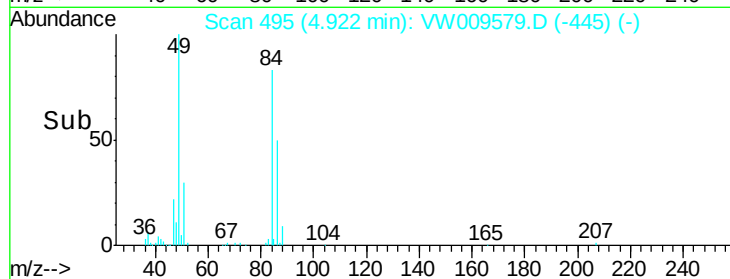
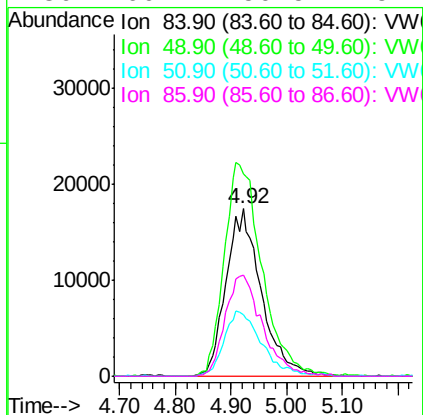
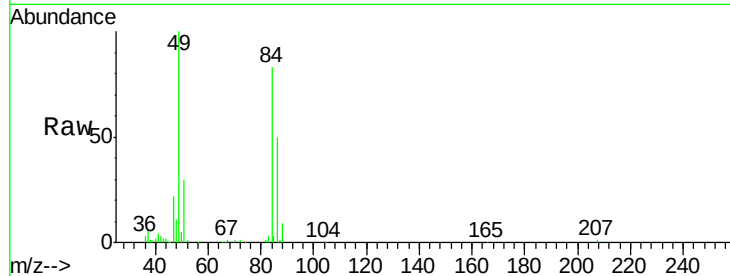




#20
Methylene Chloride
Concen: 30.617 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW009579.D
Acq: 29 Mar 2019 18:42

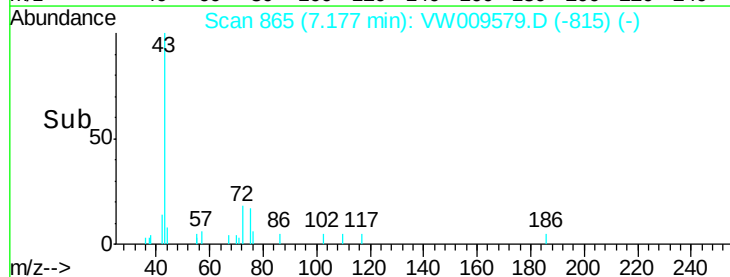
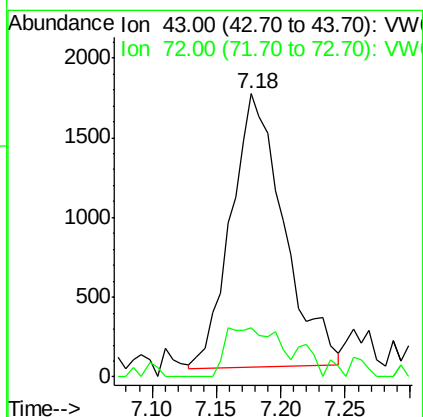
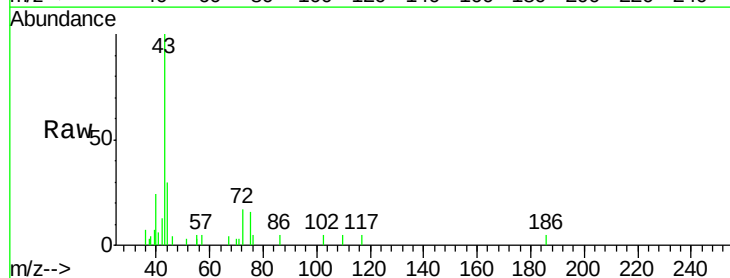
Instrument :
MSVOA_W
ClientSampleId :
S7B(14)

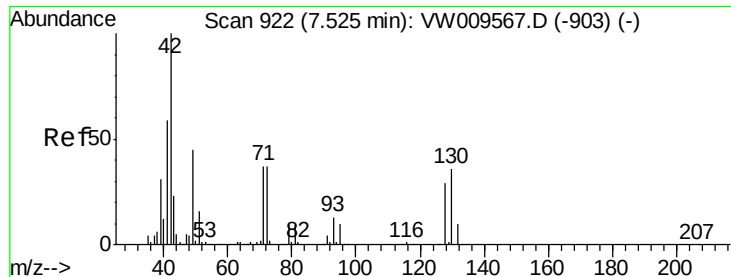
Tgt Ion:	84	Resp:	76943
Ion	Ratio	Lower	Upper
84	100		
49	121.1	99.1	148.7
51	36.4	28.7	43.1
86	60.7	50.5	75.7



#25
2-Butanone
Concen: 5.793 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW009579.D
Acq: 29 Mar 2019 18:42

Tgt Ion:	43	Resp:	4888
Ion	Ratio	Lower	Upper
43	100		
72	18.1	20.0	30.0#





#29

Tetrahydrofuran

Concen: 1.662 ug/l

RT: 7.52 min Scan# 921

Delta R.T. -0.01 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

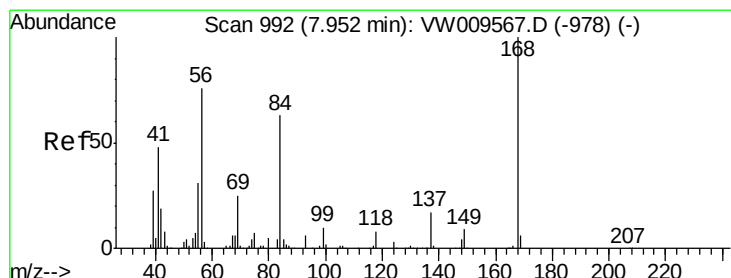
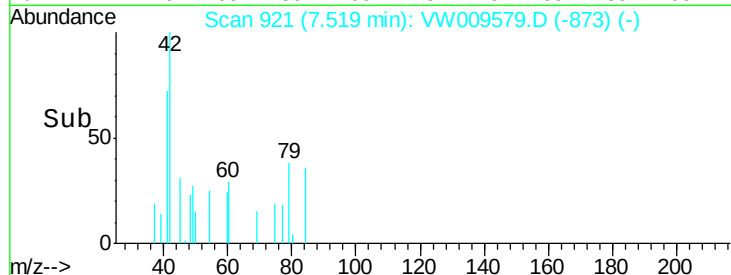
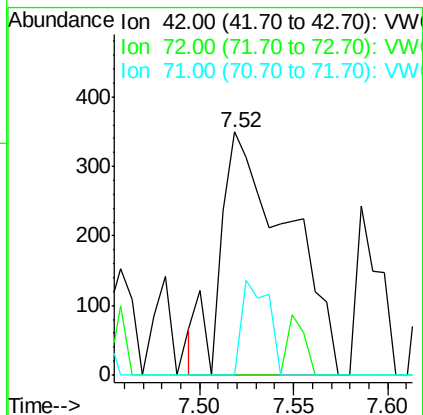
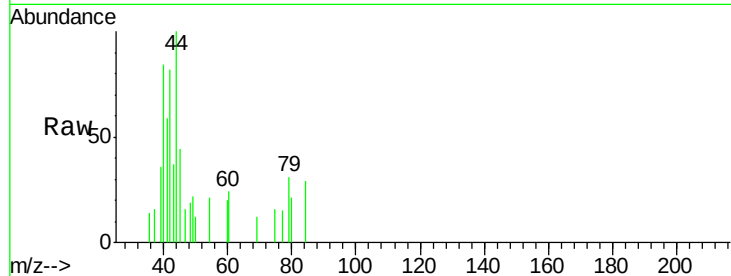
Instrument :

MSVOA_W

ClientSampleId :

S7B(14)

Tgt Ion:	42	Resp:	871
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.4	48.6#
71	15.3	30.1	45.1#



#31

Cyclohexane

Concen: 1.657 ug/l

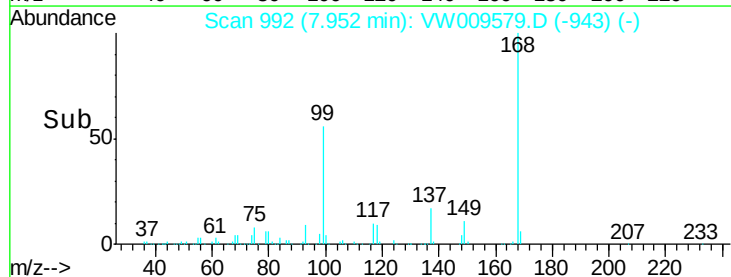
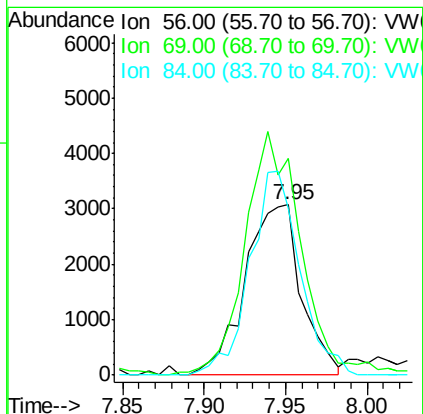
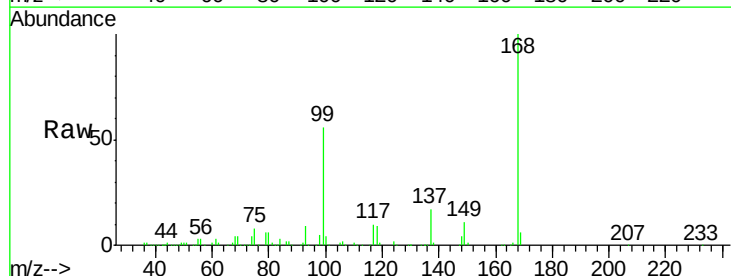
RT: 7.95 min Scan# 992

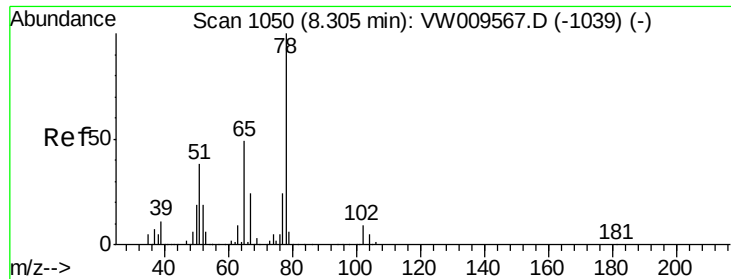
Delta R.T. 0.00 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

Tgt Ion:	56	Resp:	7401
Ion	Ratio	Lower	Upper
56	100		
69	125.4	26.1	39.1#
84	97.5	68.6	103.0

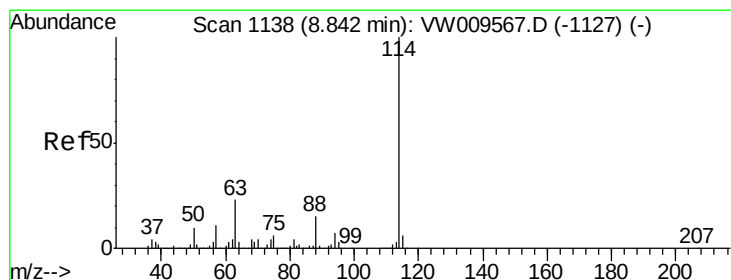
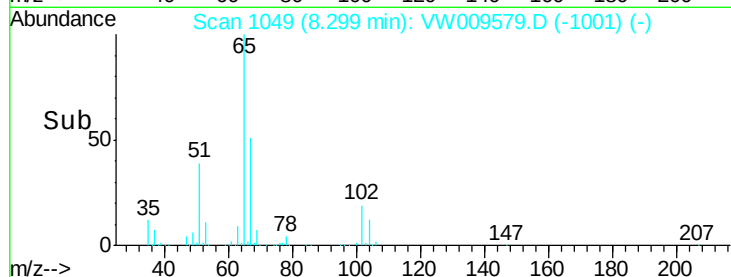
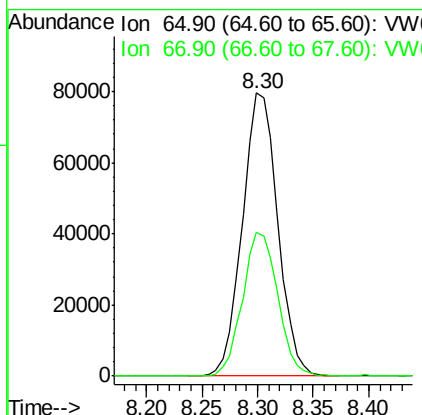
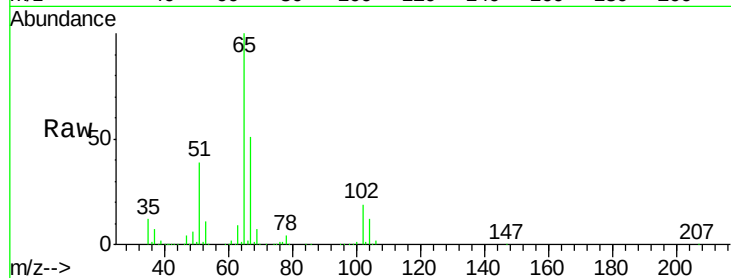




#33
 1,2-Dichloroethane-d4
 Concen: 64.920 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW009579.D
 Acq: 29 Mar 2019 18:42

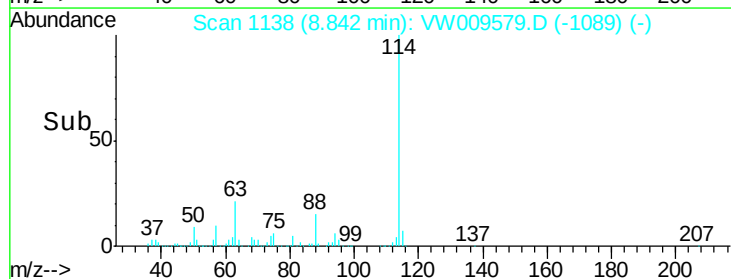
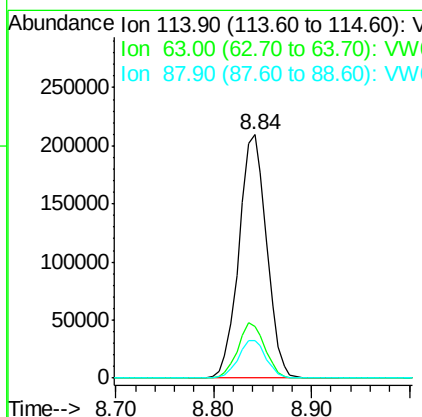
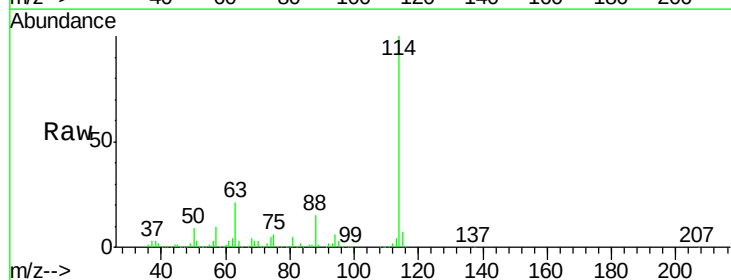
Instrument :
 MSVOA_W
 ClientSampleId :
 S7B(14)

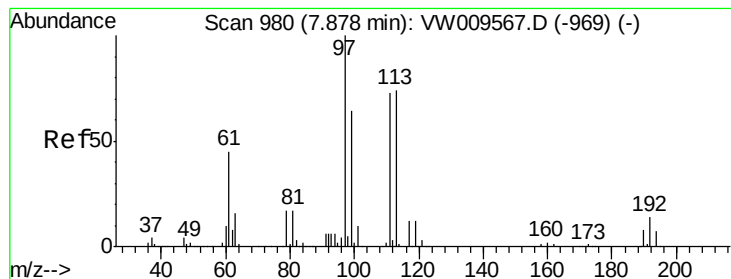
Tgt Ion: 65 Resp: 176304
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW009579.D
 Acq: 29 Mar 2019 18:42

Tgt Ion: 114 Resp: 410830
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 42.2
 88 15.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 55.264 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

Instrument :

MSVOA_W

ClientSampleId :

S7B(14)

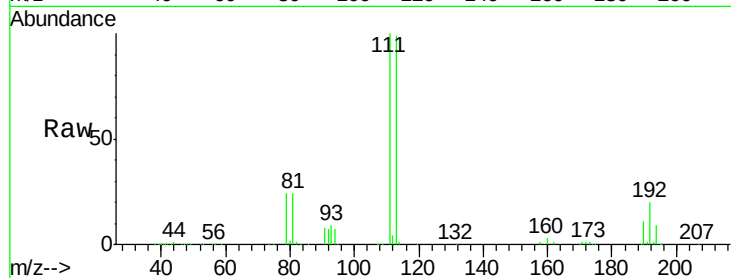
Tgt Ion:113 Resp: 142601

Ion Ratio Lower Upper

113 100

111 103.3 82.6 124.0

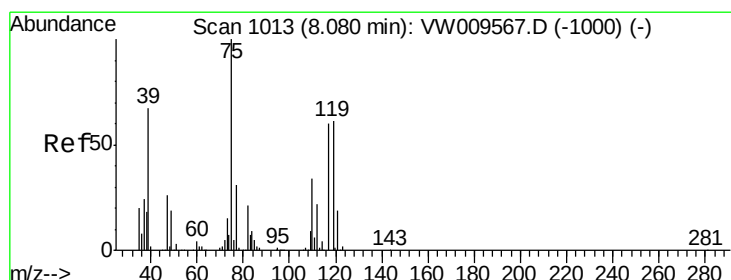
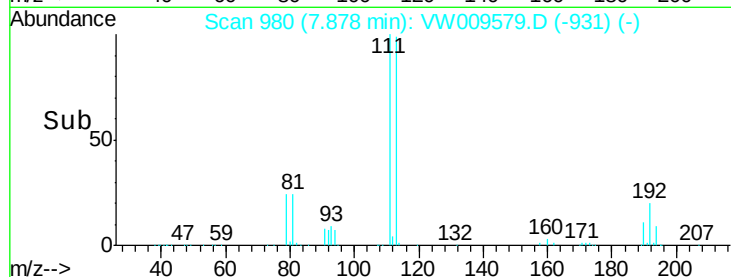
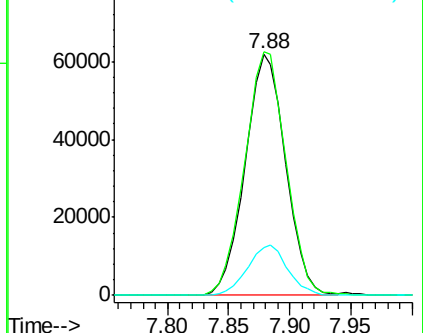
192 20.7 16.4 24.6



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: 4.843 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

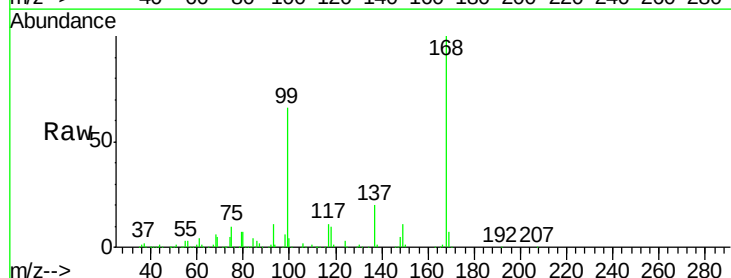
Tgt Ion: 75 Resp: 20578

Ion Ratio Lower Upper

75 100

110 9.1 16.8 50.4#

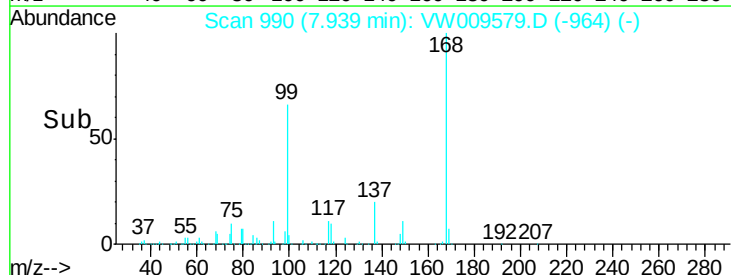
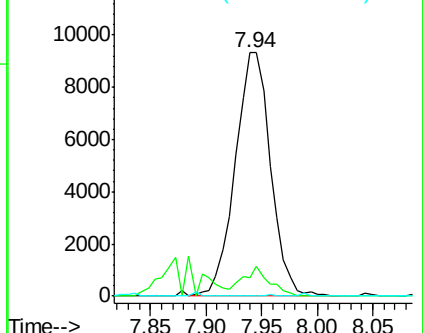
77 0.0 24.6 36.8#

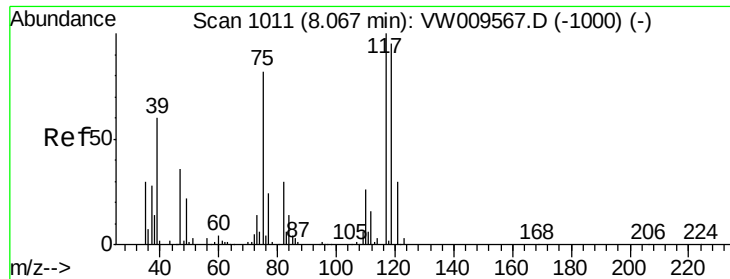


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

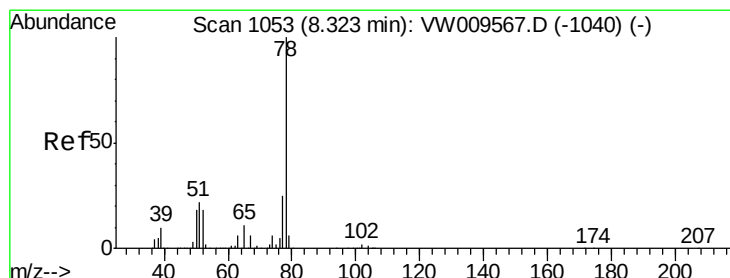
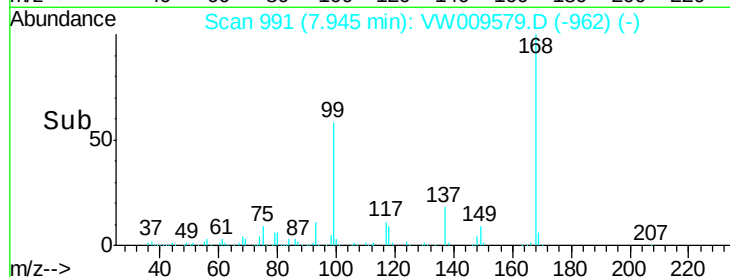
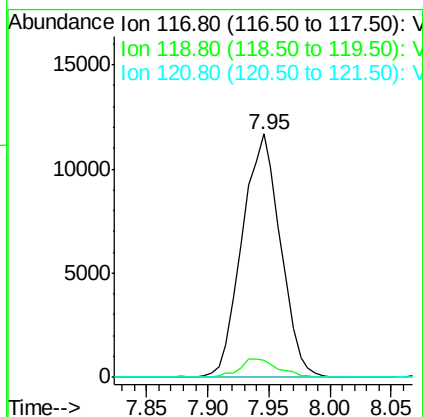
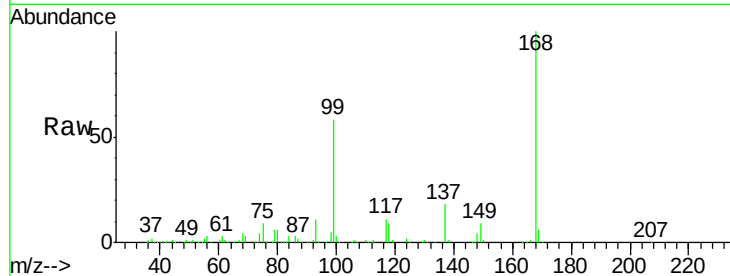




#38
 Carbon Tetrachloride
 Concen: 5.871 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW009579.D
 Acq: 29 Mar 2019 18:42

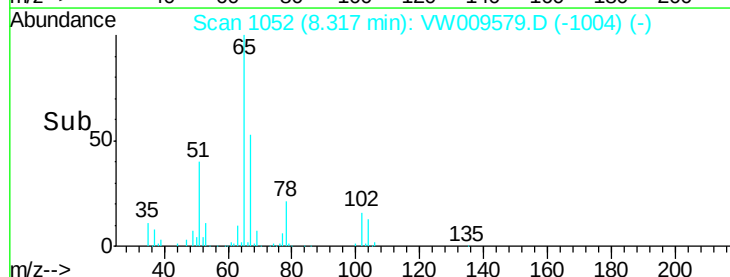
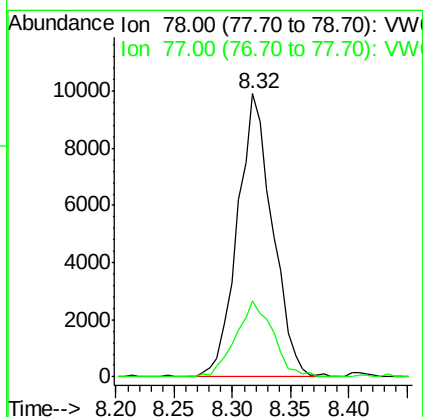
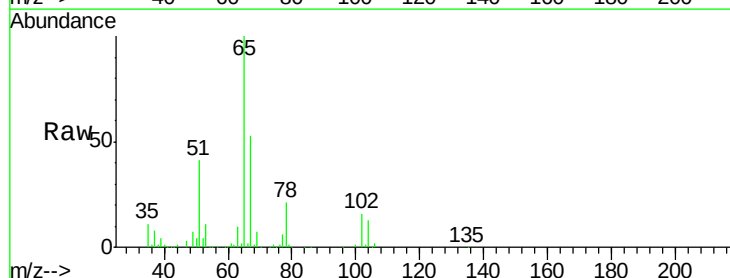
Instrument :
 MSVOA_W
 ClientSampleId :
 S7B(14)

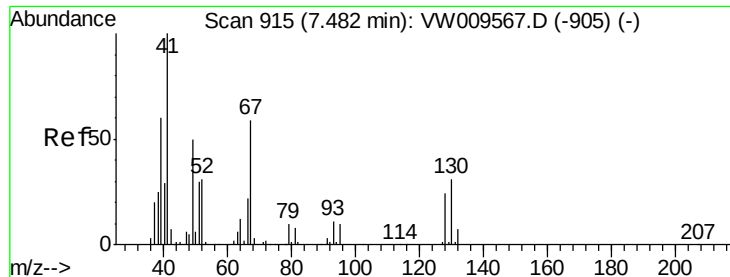
Tgt Ion:117 Resp: 25564
 Ion Ratio Lower Upper
 117 100
 119 6.8 75.4 113.0#
 121 0.0 24.9 37.3#



#40
 Benzene
 Concen: 1.804 ug/l
 RT: 8.32 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VW009579.D
 Acq: 29 Mar 2019 18:42

Tgt Ion: 78 Resp: 20760
 Ion Ratio Lower Upper
 78 100
 77 26.7 19.8 29.6

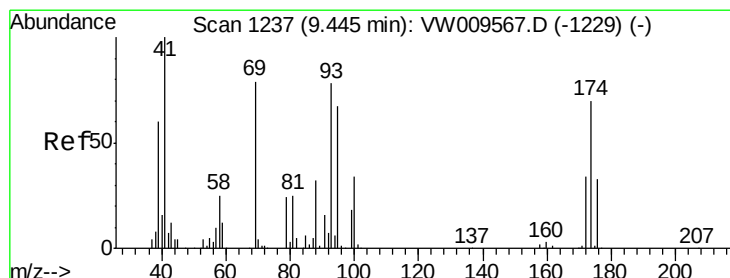
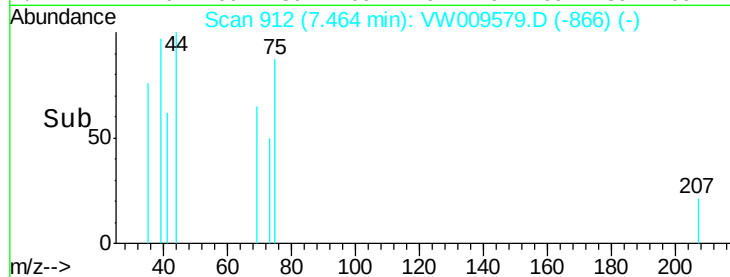
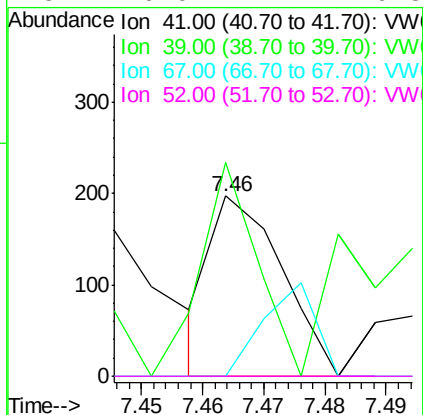
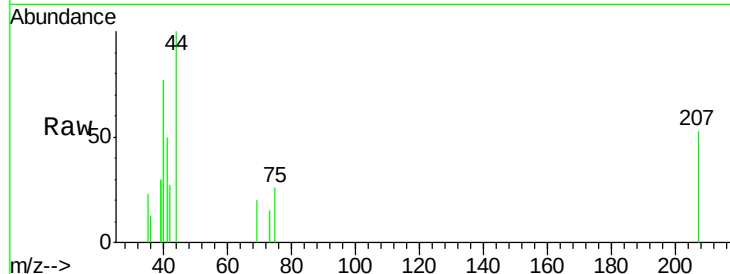




#41
Methacrylonitrile
Concen: 4.032 ug/l
RT: 7.46 min Scan# 912
Delta R.T. -0.02 min
Lab File: VW009579.D
Acq: 29 Mar 2019 18:42

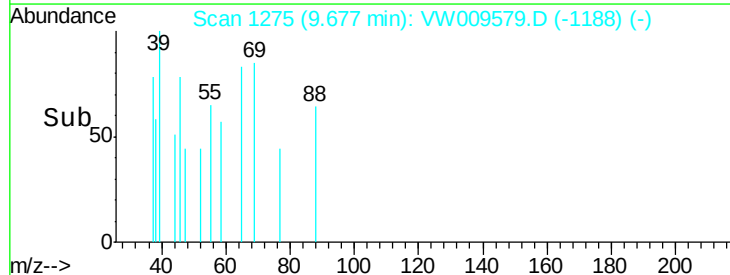
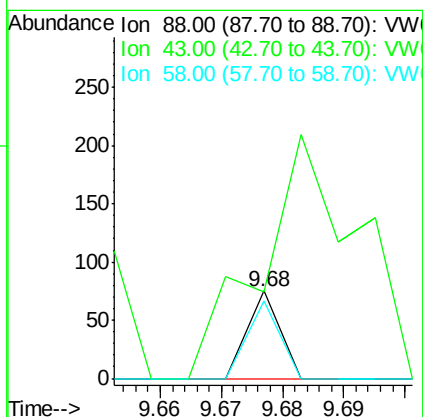
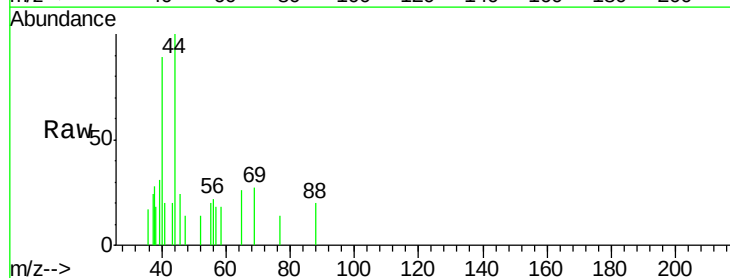
Instrument :
MSVOA_W
ClientSampled :
S7B(14)

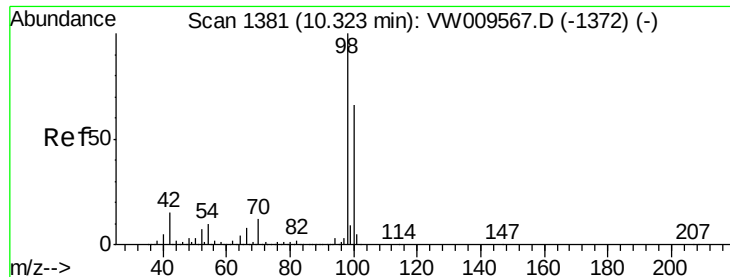
Tgt Ion:	41	Resp:	158
Ion	Ratio	Lower	Upper
41	100		
39	94.9	52.5	78.7#
67	38.0	56.6	84.8#
52	0.0	27.2	40.8#



#49
1,4-Dioxane
Concen: 1.136 ug/l
RT: 9.68 min Scan# 1275
Delta R.T. 0.23 min
Lab File: VW009579.D
Acq: 29 Mar 2019 18:42

Tgt Ion:	88	Resp:	27
Ion	Ratio	Lower	Upper
88	100		
43	848.1	29.7	44.5#
58	92.6	58.1	87.1#





#50

Toluene-d8

Concen: 52.661 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

Instrument :

MSVOA_W

ClientSampleId :

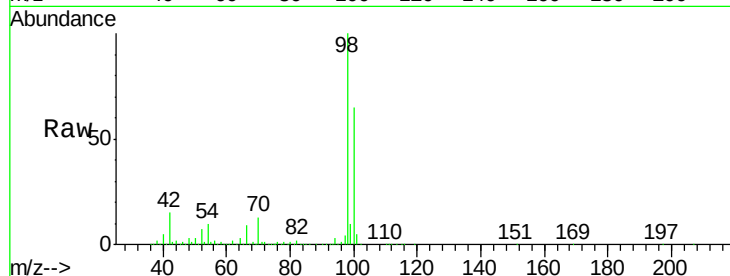
S7B(14)

Tgt Ion: 98 Resp: 502238

Ion Ratio Lower Upper

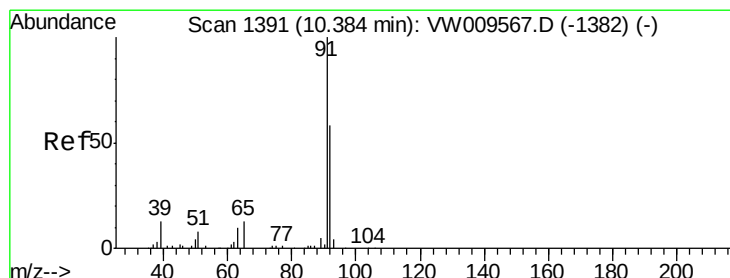
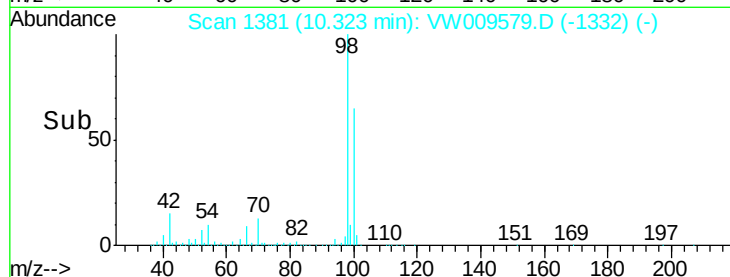
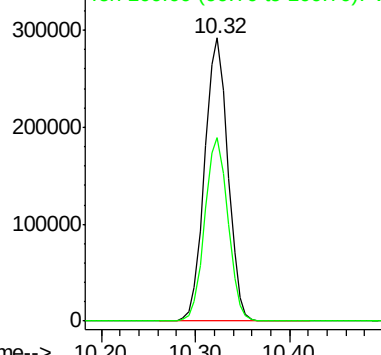
98 100

100 64.4 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#52

Toluene

Concen: 10.739 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009579.D

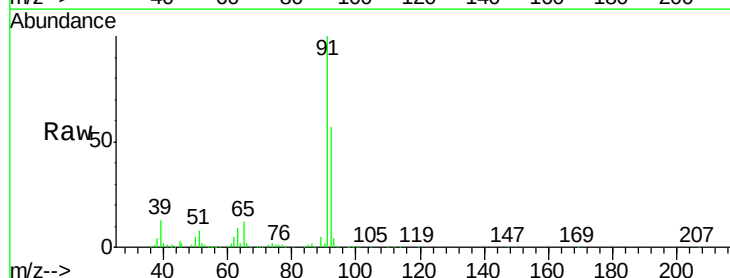
Acq: 29 Mar 2019 18:42

Tgt Ion: 92 Resp: 77408

Ion Ratio Lower Upper

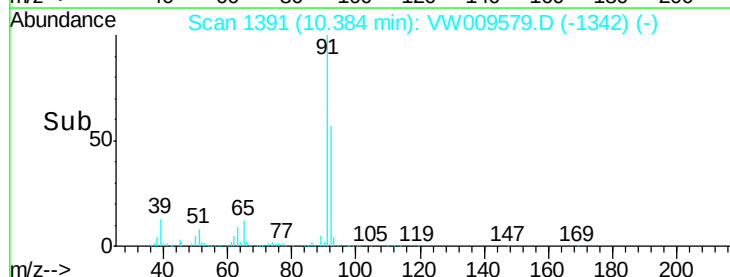
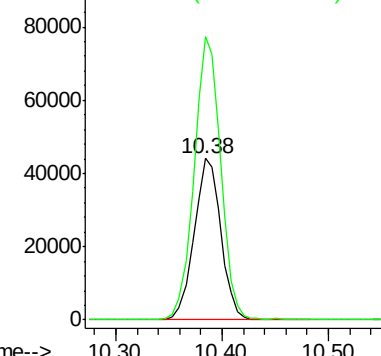
92 100

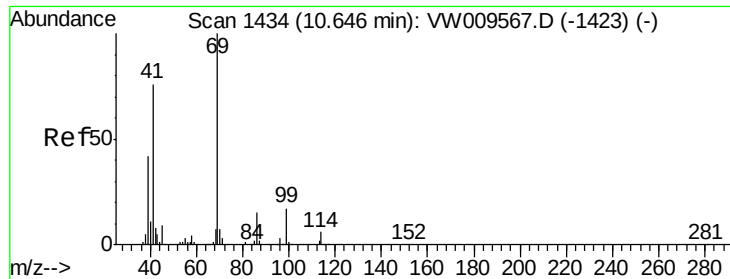
91 173.2 140.1 210.1



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#56

Ethyl methacrylate

Concen: 3.908 ug/l

RT: 10.62 min Scan# 1429

Delta R.T. -0.03 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

Instrument :

MSVOA_W

ClientSampleId :

S7B(14)

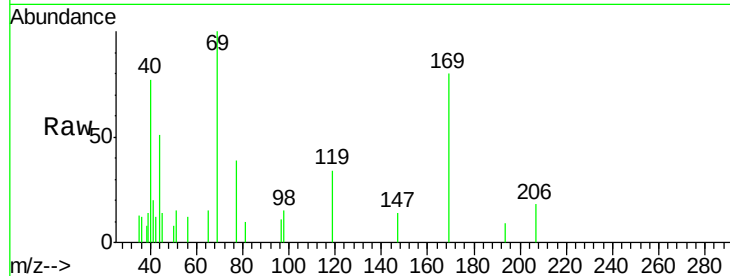
Tgt Ion: 69 Resp: 361

Ion Ratio Lower Upper

69 100

41 0.0 59.3 88.9#

39 0.0 36.2 54.2#



Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

10.62

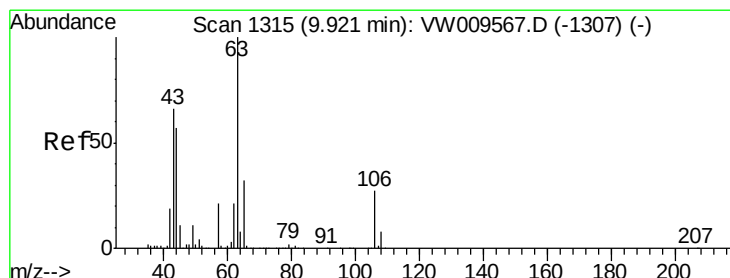
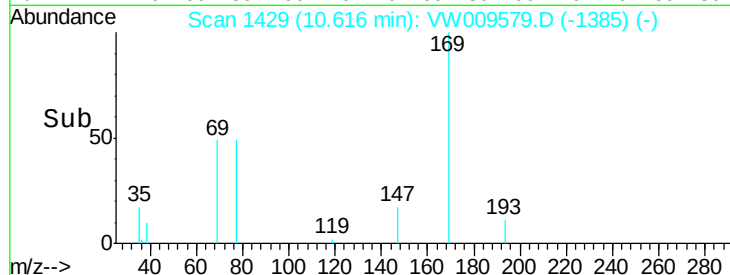
600

400

200

0

Time--> 10.58 10.60 10.62 10.64



#58

2-Chloroethyl Vinyl ether

Concen: 17.031 ug/l

RT: 9.88 min Scan# 1308

Delta R.T. -0.04 min

Lab File: VW009579.D

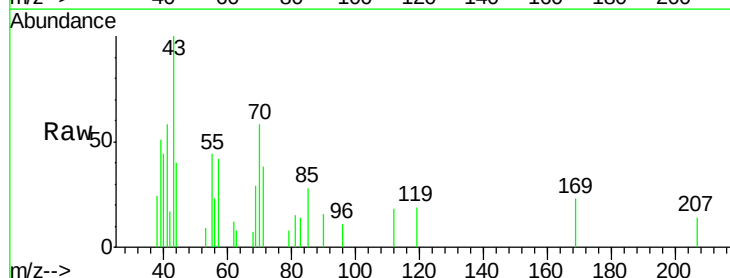
Acq: 29 Mar 2019 18:42

Tgt Ion: 63 Resp: 22

Ion Ratio Lower Upper

63 100

106 0.0 22.9 34.3#



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V

9.88

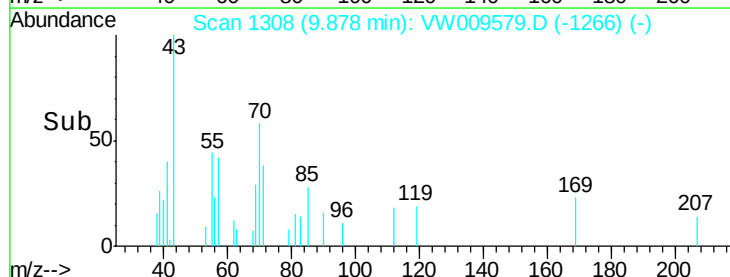
60

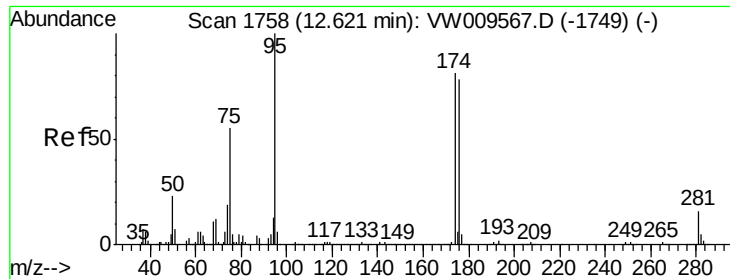
40

20

0

Time--> 9.87 9.88 9.89





#62

4-Bromofluorobenzene

Concen: 46.000 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

Instrument :

MSVOA_W

ClientSampleId :

S7B(14)

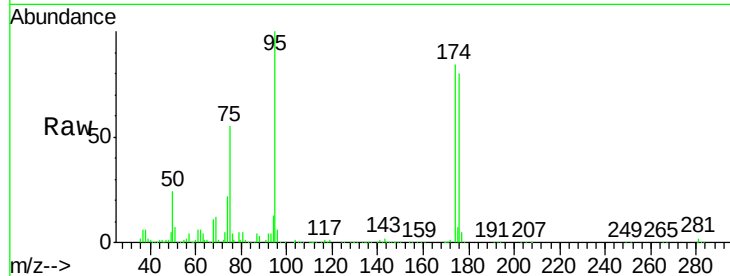
Tgt Ion: 95 Resp: 163664

Ion Ratio Lower Upper

95 100

174 81.5 0.0 168.4

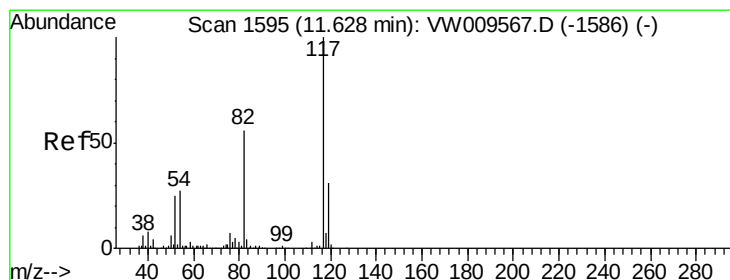
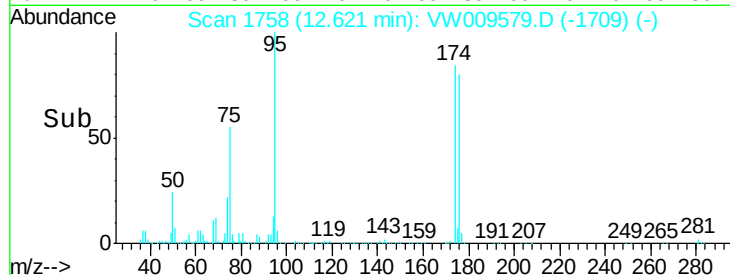
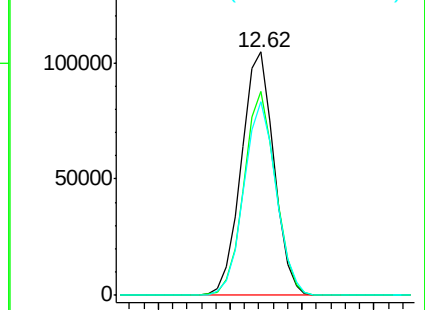
176 78.8 0.0 161.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.01 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

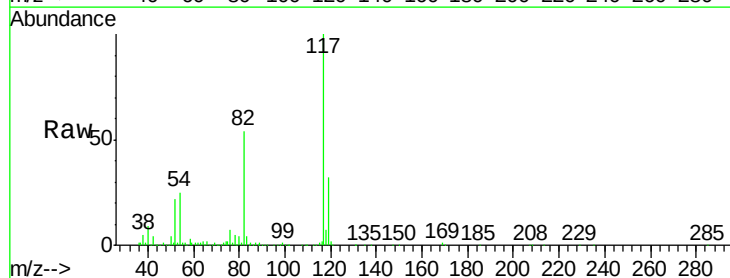
Tgt Ion: 117 Resp: 364538

Ion Ratio Lower Upper

117 100

82 54.4 43.6 65.4

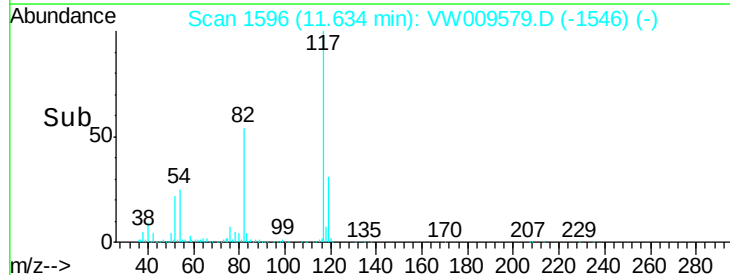
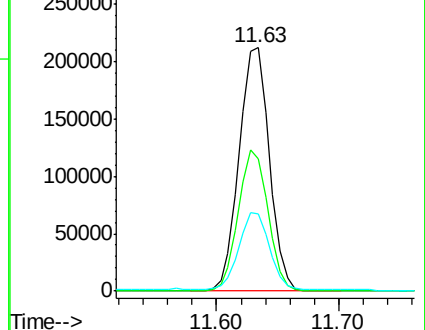
119 31.4 26.0 39.0

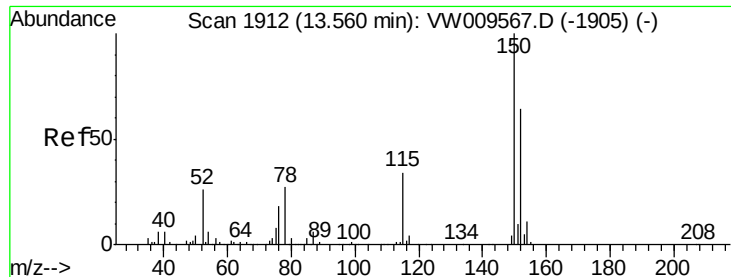


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

Instrument :

MSVOA_W

ClientSampleId :

S7B(14)

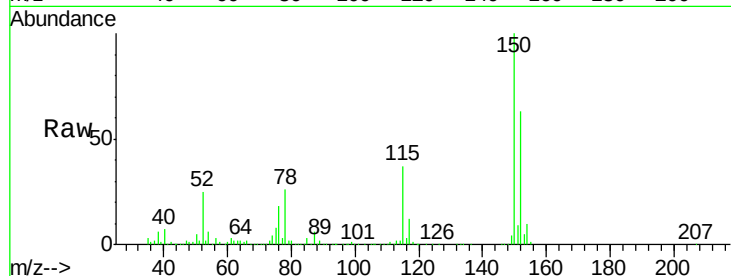
Tgt Ion:152 Resp: 163329

Ion Ratio Lower Upper

152 100

115 58.4 29.6 88.8

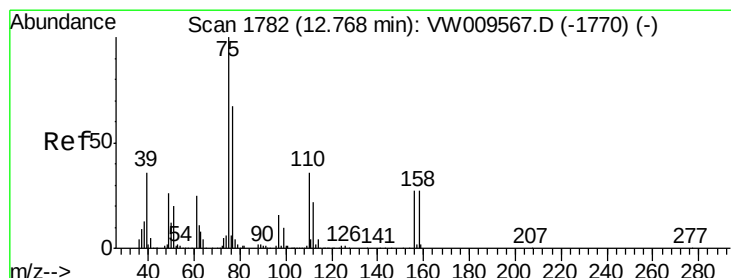
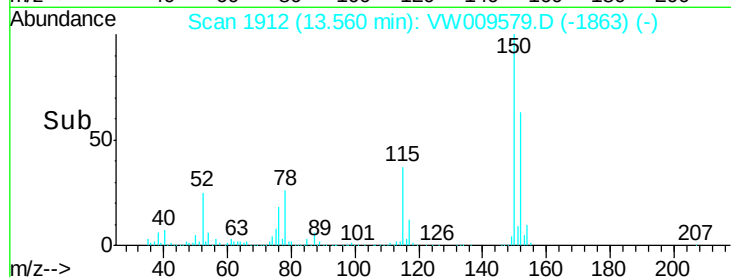
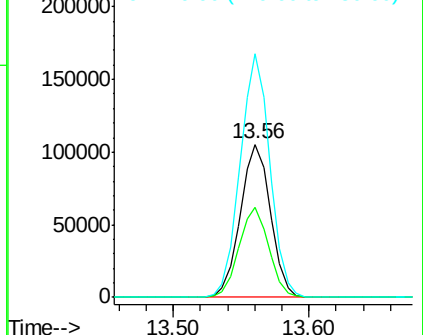
150 156.3 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 61.033 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW009579.D

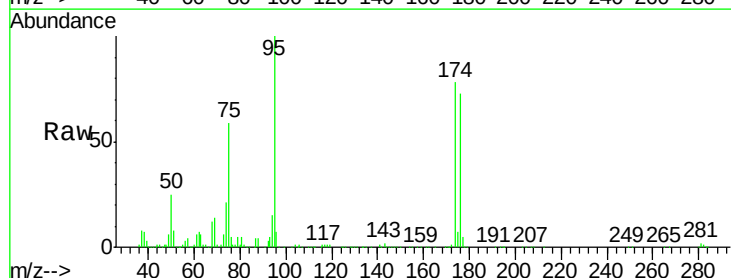
Acq: 29 Mar 2019 18:42

Tgt Ion: 75 Resp: 93742

Ion Ratio Lower Upper

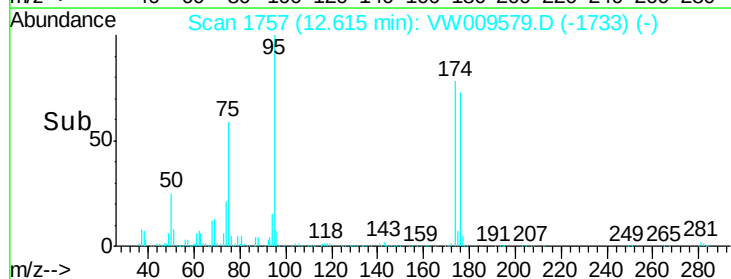
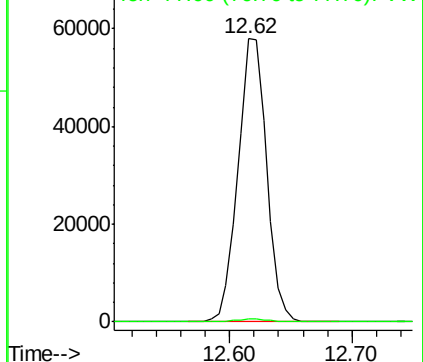
75 100

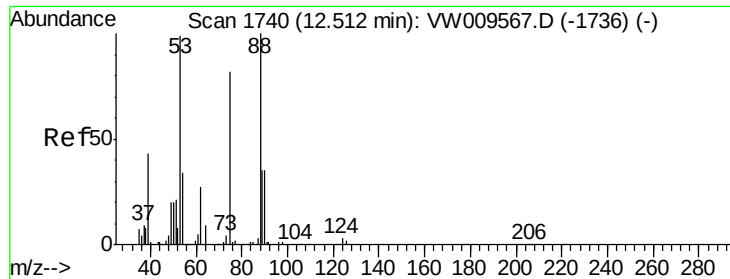
77 1.4 0.0 0.0#



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: 141.930 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

Instrument :

MSVOA_W

ClientSampleId :

S7B(14)

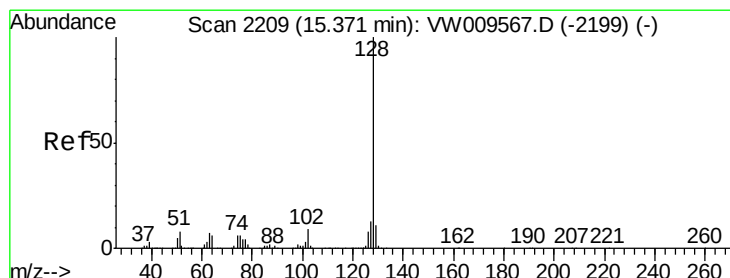
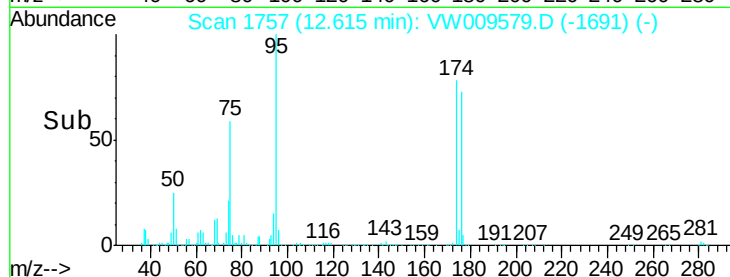
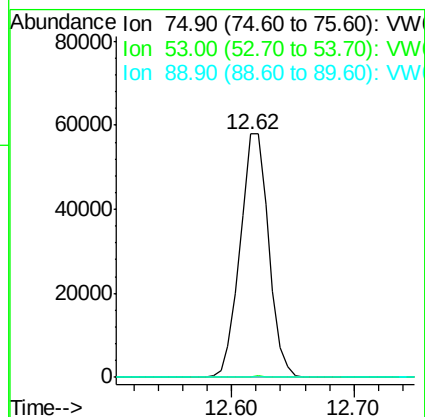
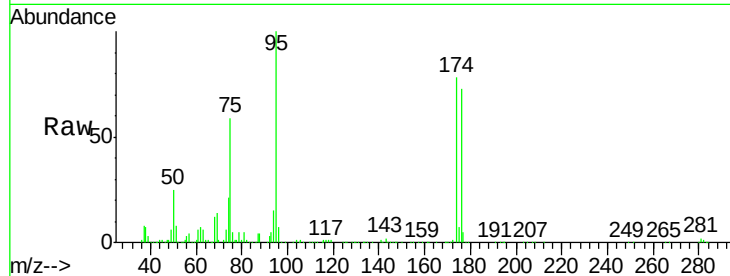
Tgt Ion: 75 Resp: 93742

Ion Ratio Lower Upper

75 100

53 0.3 86.7 130.1#

89 0.1 36.4 54.6#



#95

Naphthalene

Concen: 2.942 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW009579.D

Acq: 29 Mar 2019 18:42

Tgt Ion: 128 Resp: 1473

Ion Ratio Lower Upper

128 100

127 6.9 10.8 16.2#

129 3.9 8.7 13.1#

