

Data File : VF060702.D
Acq On : 12 Nov 2018 23:51
Operator : VA/AP
Sample : J5908-15RE
Misc : 5.87g/5mL/MSVOA-F/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
SR-5-SRE

Quant Time: Nov 13 04:21:35 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	80872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	102541	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	61625	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	15932	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.82	65	15845	19.39	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	38.78%	
35) Dibromofluoromethane	4.10	113	24264	30.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	61.26%	
50) Toluene-d8	7.55	98	90438	38.54	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	77.08%	
62) 4-Bromofluorobenzene	11.40	95	21008	20.47	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	40.94%	

Target Compounds

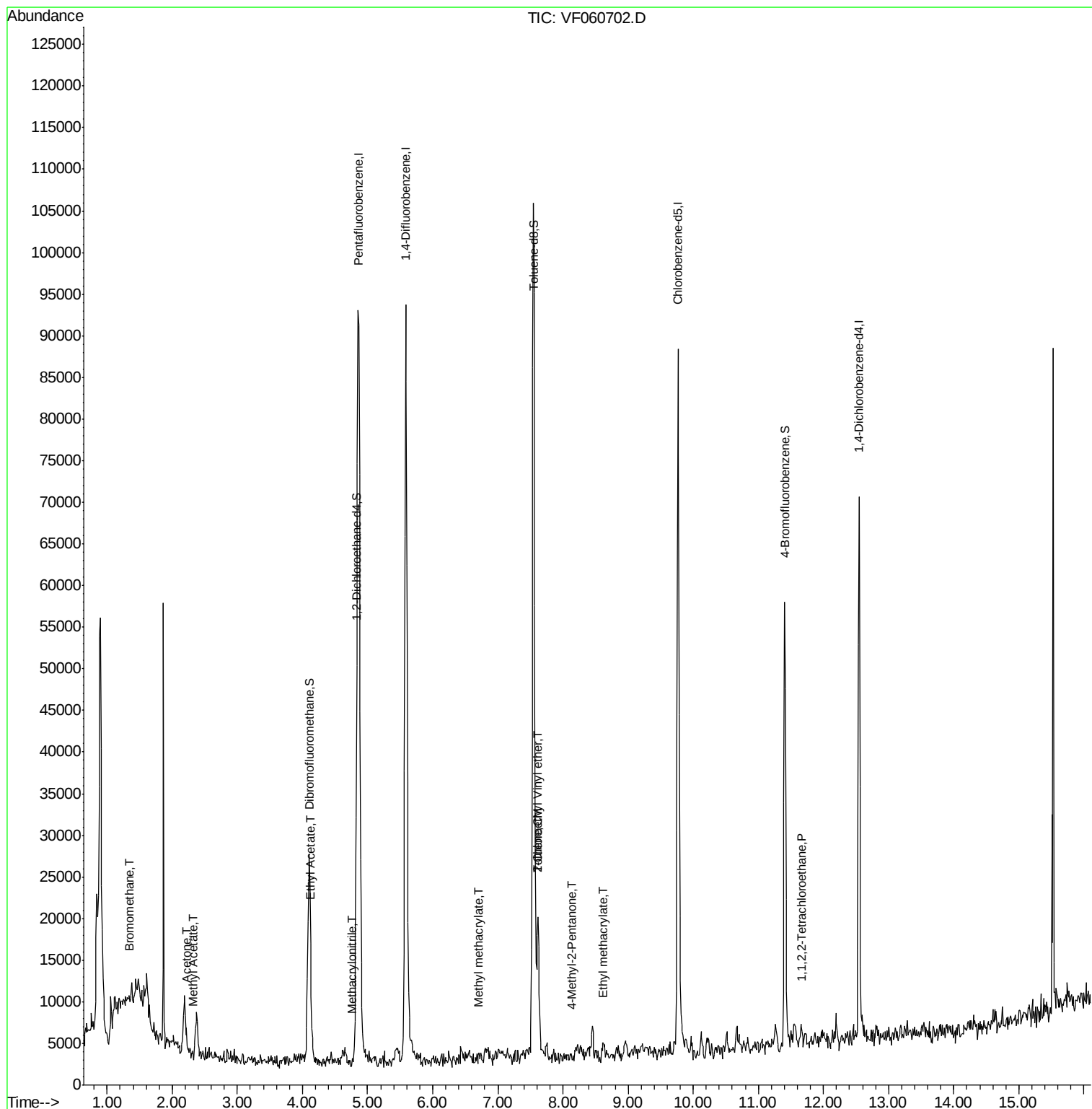
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	72	Below Cal	#	41
5) Bromomethane	1.34	94	631	1.724	ug/l #	1
6) Chloroethane	1.50	64	256	Below Cal		91
11) Tert butyl alcohol	2.52	59	87	Below Cal	#	52
13) Acrolein	1.98	56	107	Below Cal		86
16) Acetone	2.22	43	1800	9.349	ug/l	94
18) Methyl Acetate	2.32	43	186	1.095	ug/l #	64
20) Methylene Chloride	2.19	84	2782	Below Cal		93
25) 2-Butanone	4.32	43	481	Below Cal	#	56
29) Tetrahydrofuran	4.12	42	291	Below Cal	#	36
37) Ethyl Acetate	4.13	43	1243	2.293	ug/l #	17
41) Methacrylonitrile	4.76	41	536	1.746	ug/l #	54
48) Methyl methacrylate	6.71	41	578	1.341	ug/l #	32
51) 4-Methyl-2-Pentanone	8.13	43	1090	2.364	ug/l	88
52) Toluene	7.62	92	7755	4.344	ug/l	80
56) Ethyl methacrylate	8.60	69	1361	2.036	ug/l #	47
58) 2-Chloroethyl Vinyl ether	7.62	63	1418	13.421	ug/l	100
59) 2-Hexanone	9.49	43	1188	Below Cal	#	26
74) N-amyl acetate	11.39	43	966	Below Cal	#	50
75) 1,1,2,2-Tetrachloroethane	11.67	83	275	1.213	ug/l #	24
89) n-Butylbenzene	12.83	91	281	Below Cal	#	25

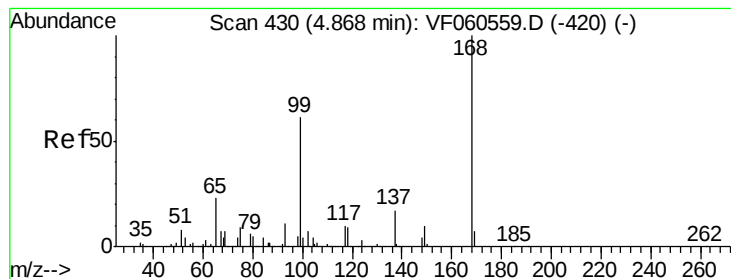
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF060702.D

Acq: 12 Nov 2018 23:51

Instrument :

MSVOA_F

ClientSampleId :

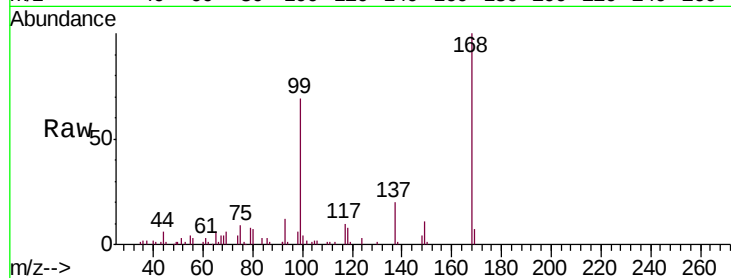
SR-5-SRE

Tgt Ion:168 Resp: 80872

Ion Ratio Lower Upper

168 100

99 68.9 48.6 72.8

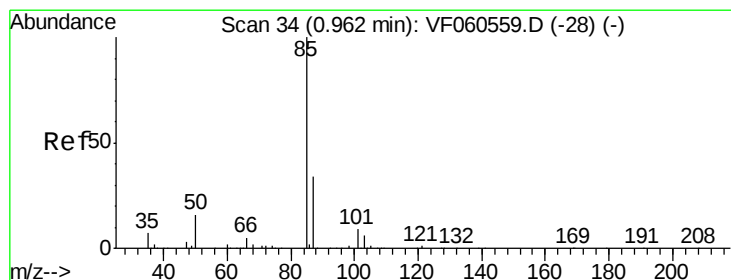
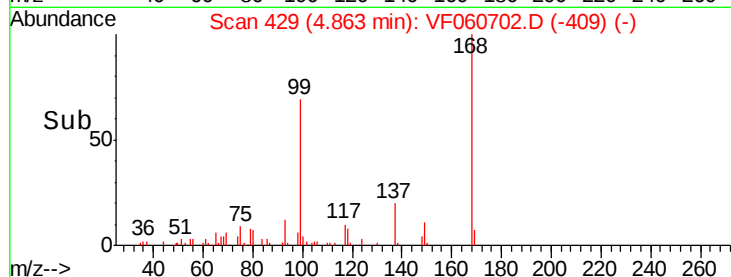


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF060702.D

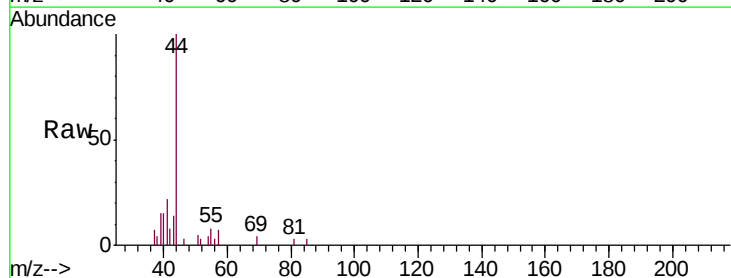
Acq: 12 Nov 2018 23:51

Tgt Ion: 85 Resp: 72

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#

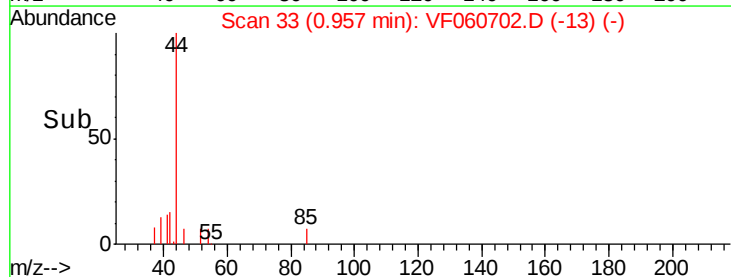


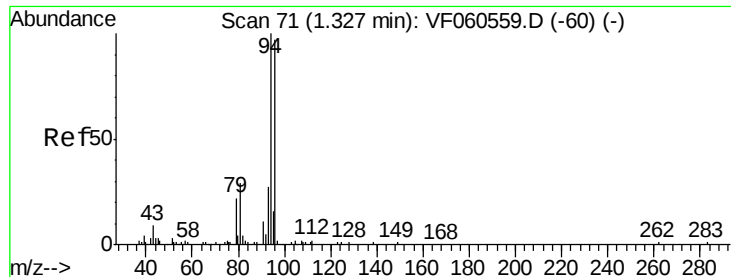
Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

Time-->





#5

Bromomethane

Concen: 1.724 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.02 min

Lab File: VF060702.D

Acq: 12 Nov 2018 23:51

Instrument :

MSVOA_F

ClientSampleId :

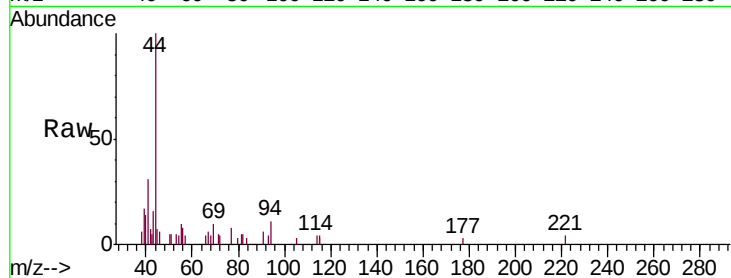
SR-5-SRE

Tgt Ion: 94 Resp: 631

Ion Ratio Lower Upper

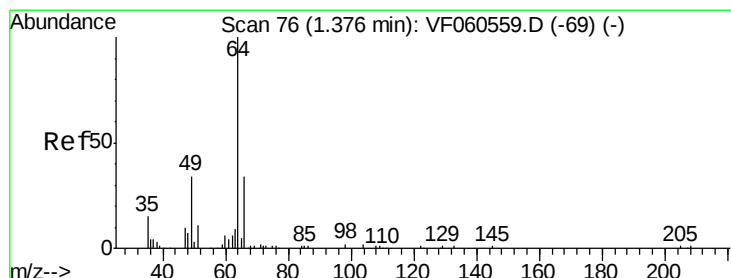
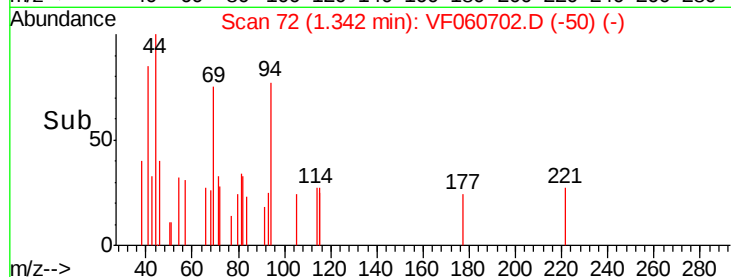
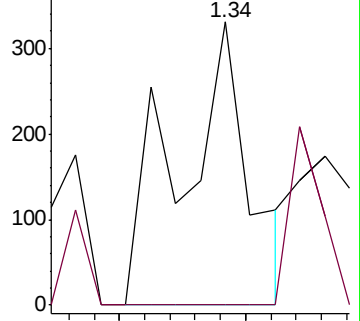
94 100

96 0.0 77.9 116.9#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: Below Cal

RT: 1.50 min Scan# 88

Delta R.T. 0.12 min

Lab File: VF060702.D

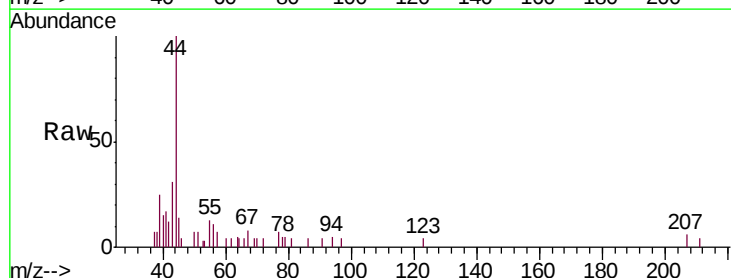
Acq: 12 Nov 2018 23:51

Tgt Ion: 64 Resp: 256

Ion Ratio Lower Upper

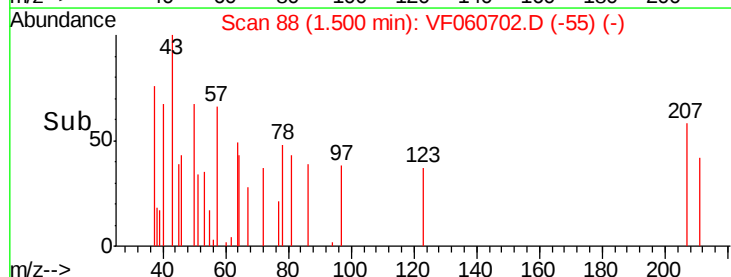
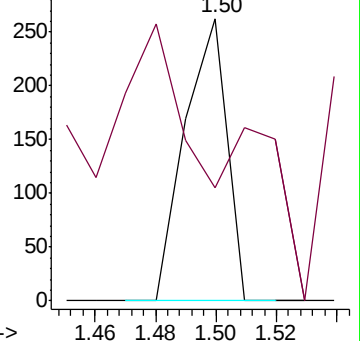
64 100

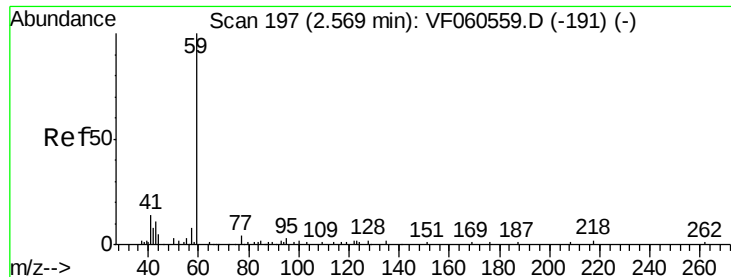
66 39.9 27.8 41.8



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

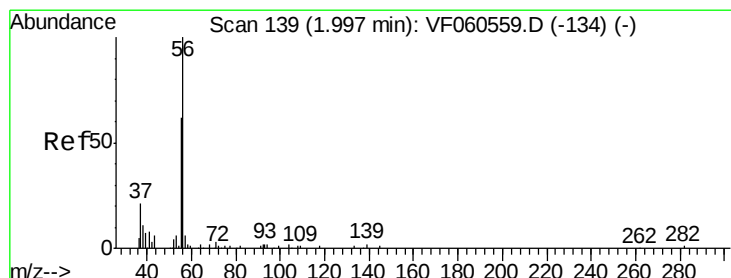
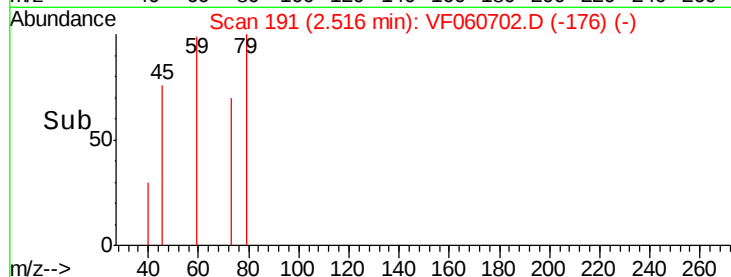
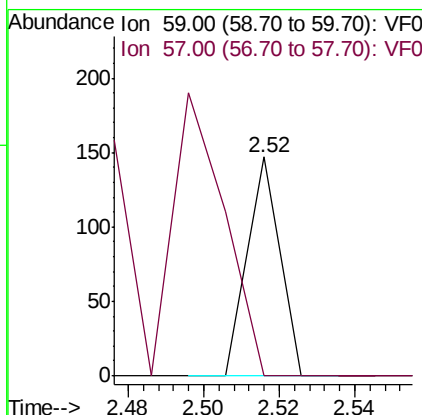
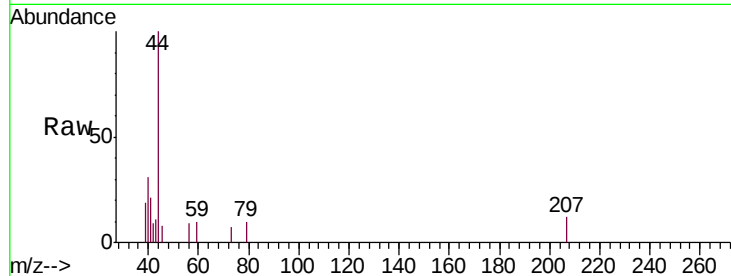




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.52 min Scan# 191
Delta R.T. -0.05 min
Lab File: VF060702.D
Acq: 12 Nov 2018 23:51

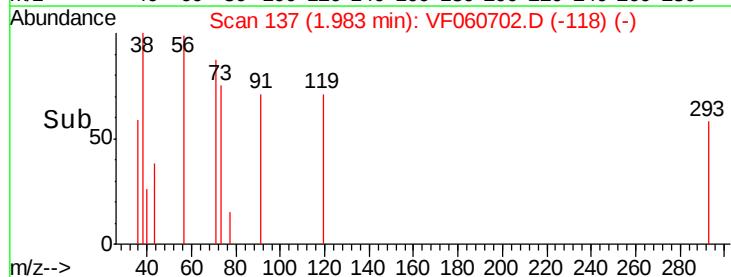
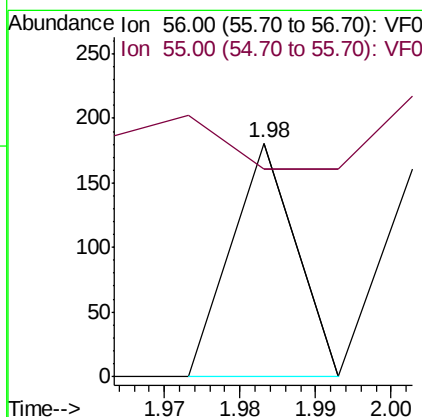
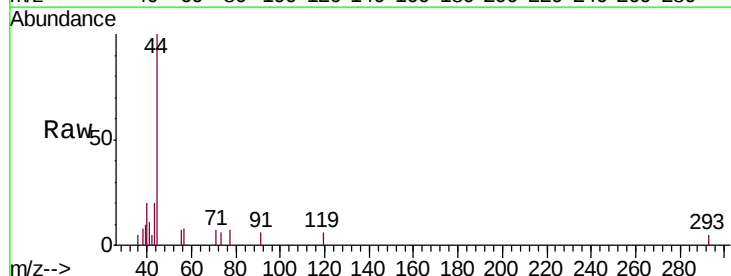
Instrument :
MSVOA_F
ClientSampleId :
SR-5-SRE

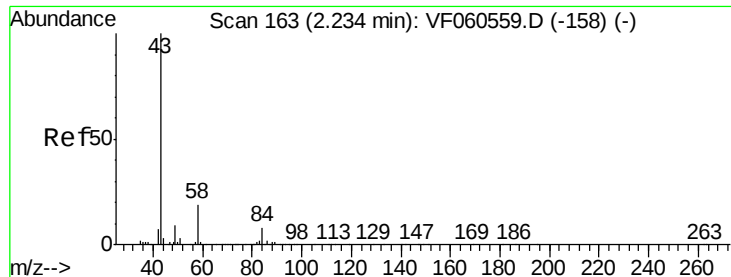
Tgt Ion: 59 Resp: 87
Ion Ratio Lower Upper
59 100
57 0.0 19.0 28.4#



#13
Acrolein
Concen: Below Cal
RT: 1.98 min Scan# 137
Delta R.T. -0.01 min
Lab File: VF060702.D
Acq: 12 Nov 2018 23:51

Tgt Ion: 56 Resp: 107
Ion Ratio Lower Upper
56 100
55 89.0 61.8 92.6

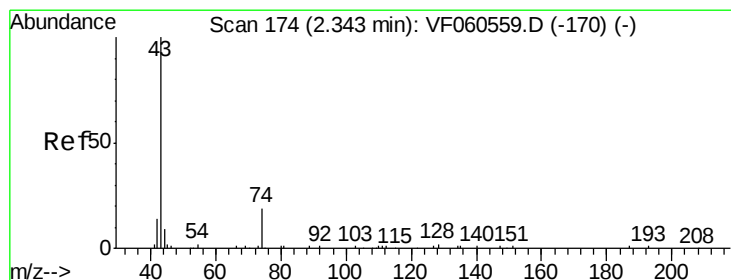
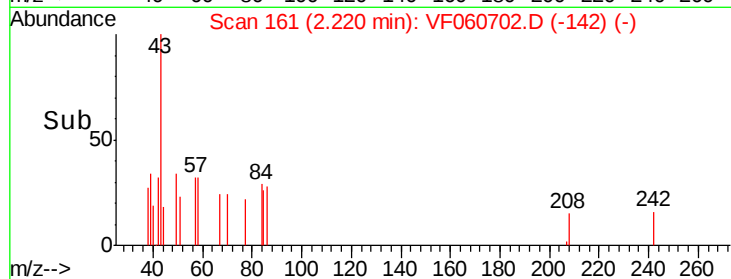
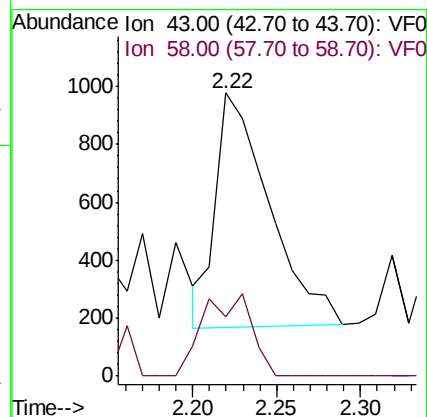
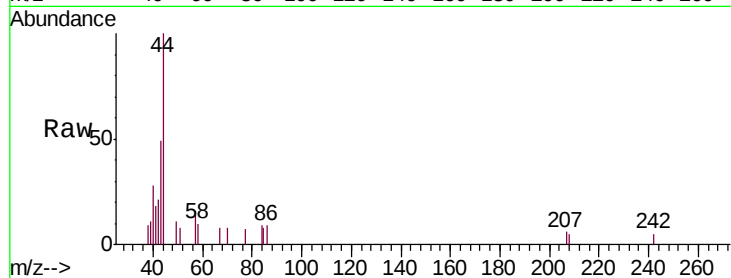




#16
Acetone
Concen: 9.349 ug/l
RT: 2.22 min Scan# 161
Delta R.T. -0.01 min
Lab File: VF060702.D
Acq: 12 Nov 2018 23:51

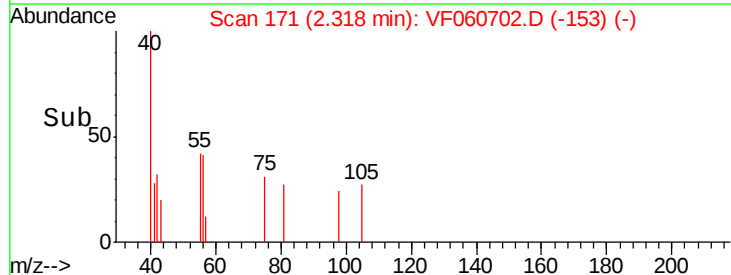
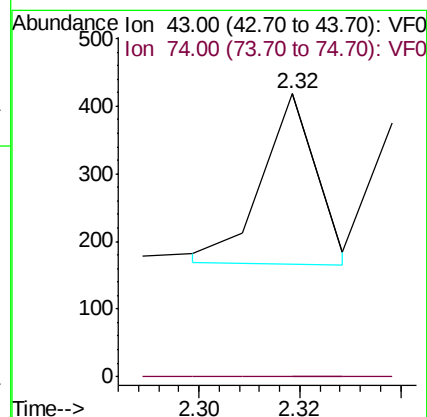
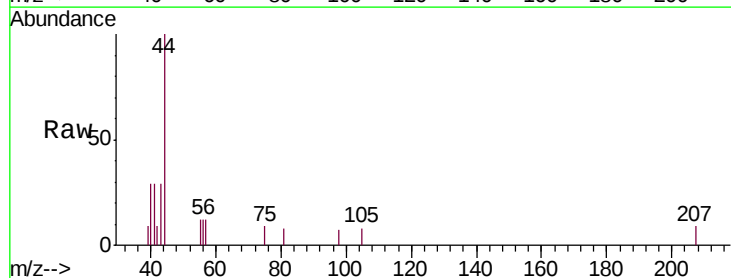
Instrument :
MSVOA_F
ClientSampled :
SR-5-SRE

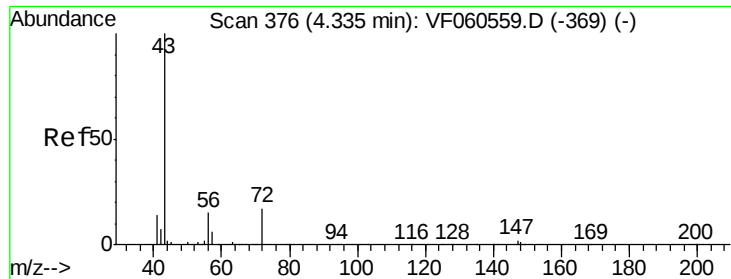
Tgt Ion: 43 Resp: 1800
Ion Ratio Lower Upper
43 100
58 21.2 14.6 22.0



#18
Methyl Acetate
Concen: 1.095 ug/l
RT: 2.32 min Scan# 171
Delta R.T. -0.02 min
Lab File: VF060702.D
Acq: 12 Nov 2018 23:51

Tgt Ion: 43 Resp: 186
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#

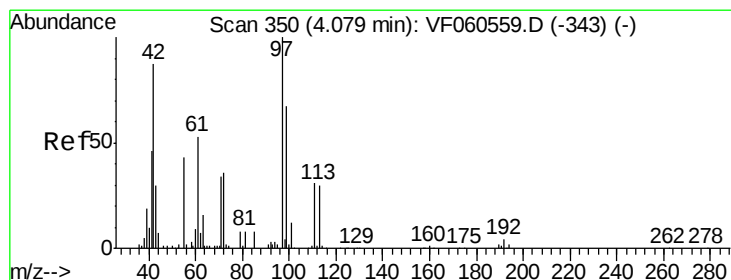
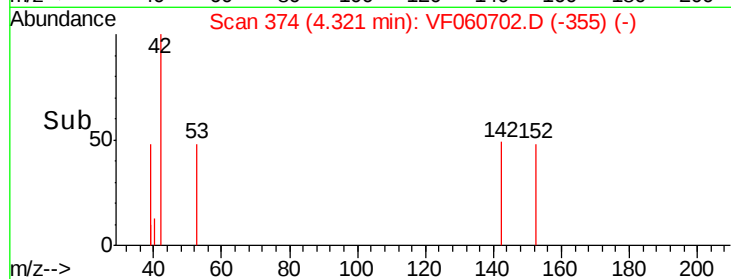
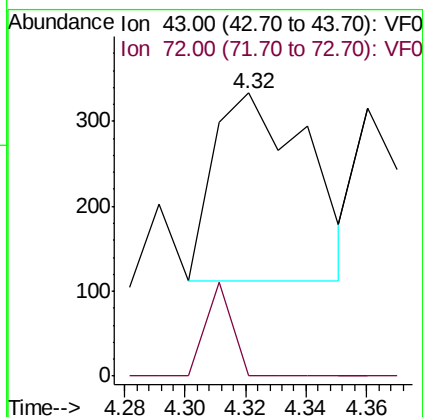
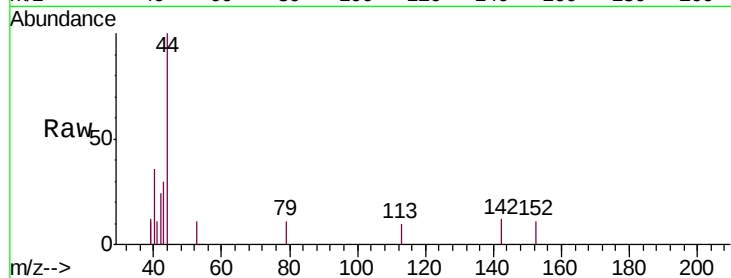




#25
2-Butanone
Concen: Below Cal
RT: 4.32 min Scan# 374
Delta R.T. -0.01 min
Lab File: VF060702.D
Acq: 12 Nov 2018 23:51

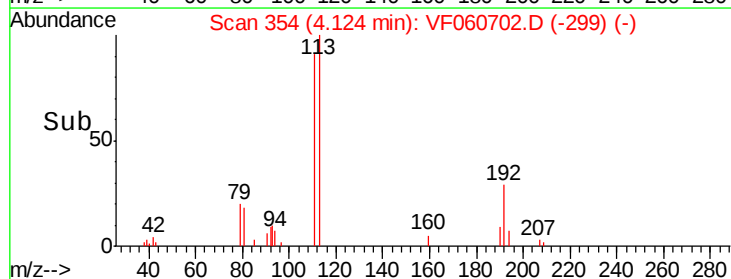
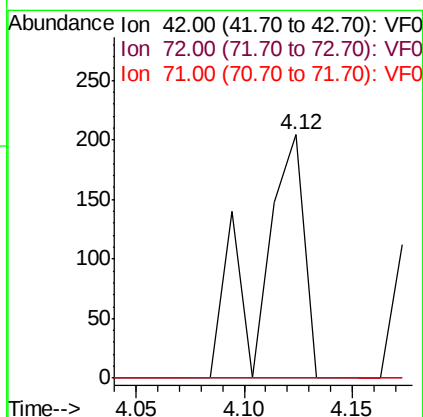
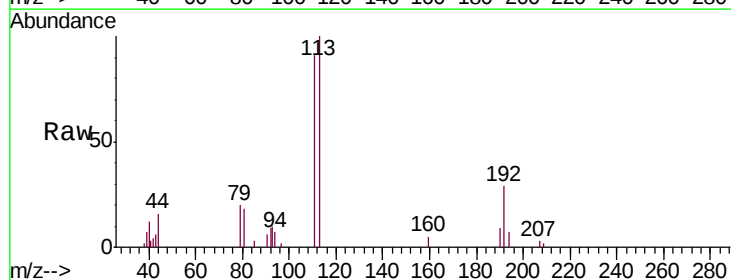
Instrument :
MSVOA_F
ClientSampleId :
SR-5-SRE

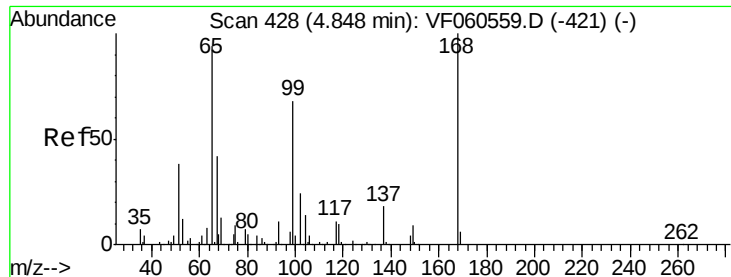
Tgt Ion: 43 Resp: 481
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.2#



#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.12 min Scan# 354
Delta R.T. 0.05 min
Lab File: VF060702.D
Acq: 12 Nov 2018 23:51

Tgt Ion: 42 Resp: 291
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 31.8 47.6#

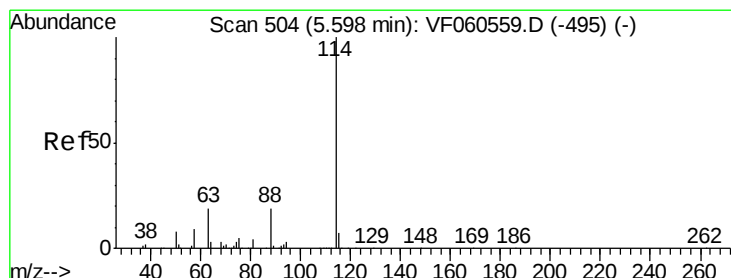
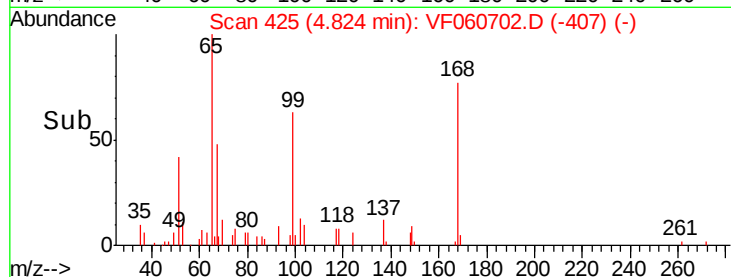
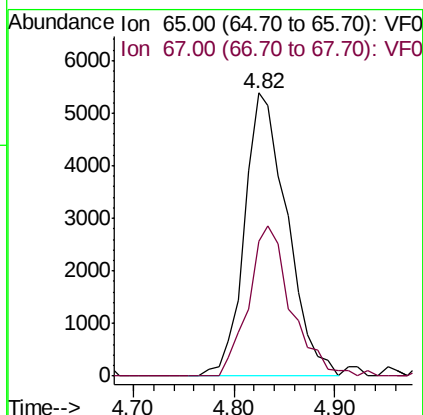
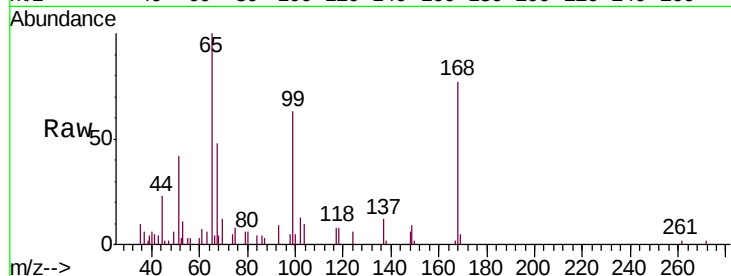




#33
 1,2-Dichloroethane-d4
 Concen: 19.392 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.02 min
 Lab File: VF060702.D
 Acq: 12 Nov 2018 23:51

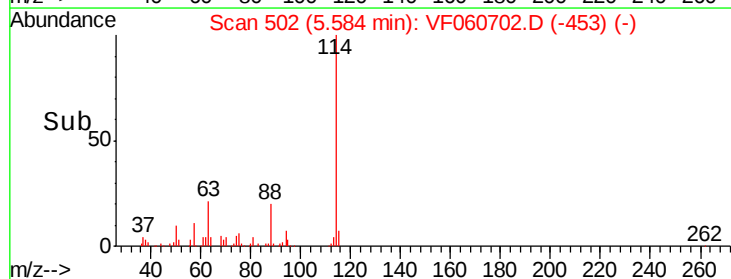
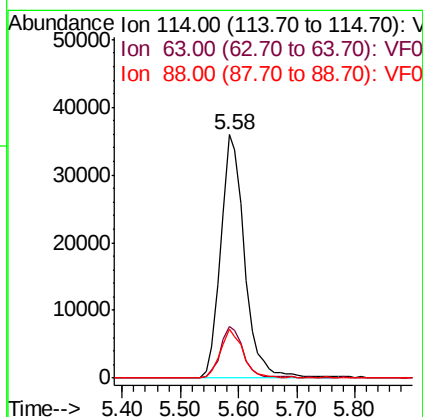
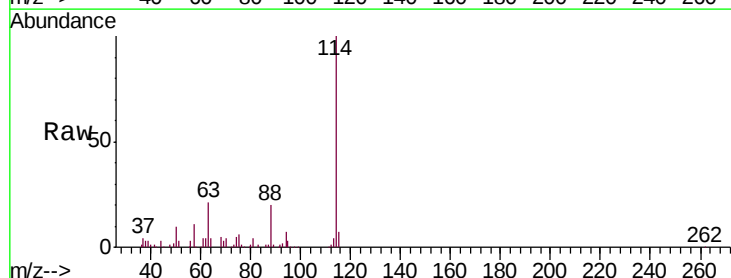
Instrument :
 MSVOA_F
 ClientSampled :
 SR-5-SRE

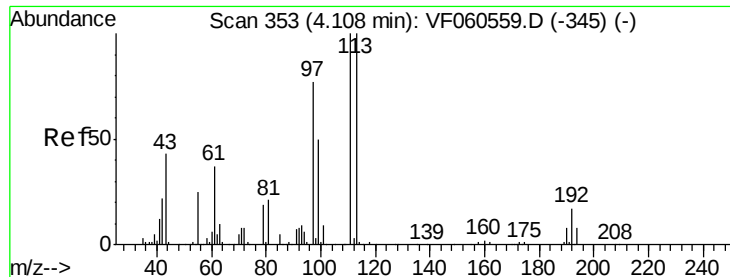
Tgt Ion: 65 Resp: 15845
 Ion Ratio Lower Upper
 65 100
 67 47.7 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.01 min
 Lab File: VF060702.D
 Acq: 12 Nov 2018 23:51

Tgt Ion: 114 Resp: 102541
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 39.0
 88 20.3 0.0 38.2

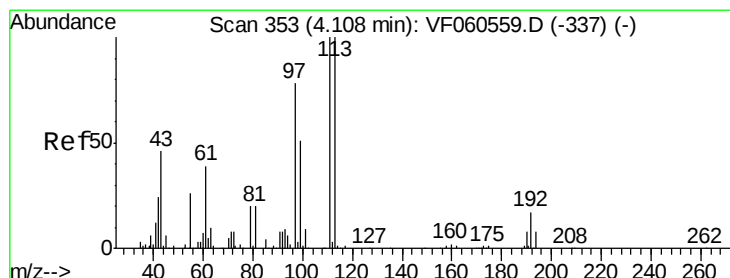
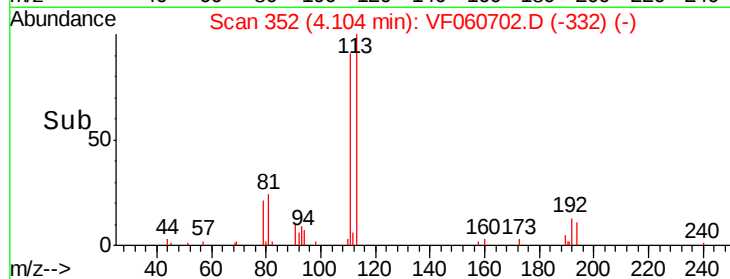
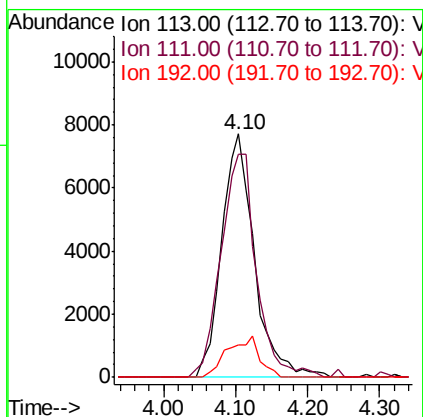
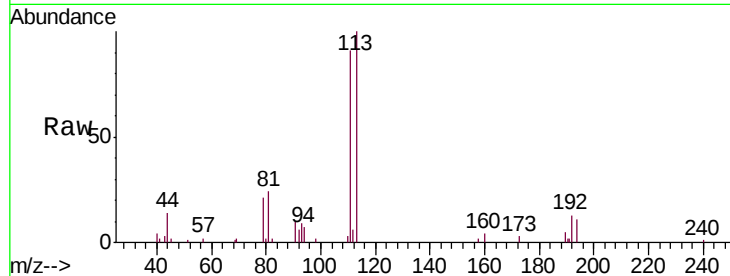




#35
 Dibromofluoromethane
 Concen: 30.628 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VF060702.D
 Acq: 12 Nov 2018 23:51

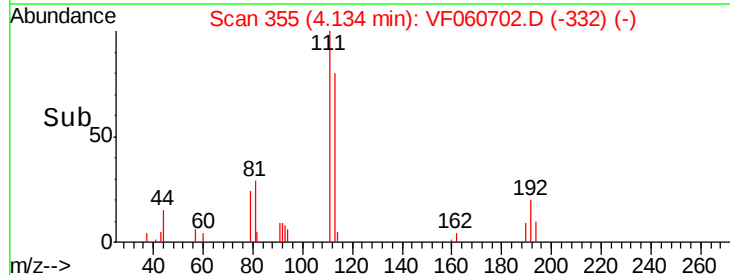
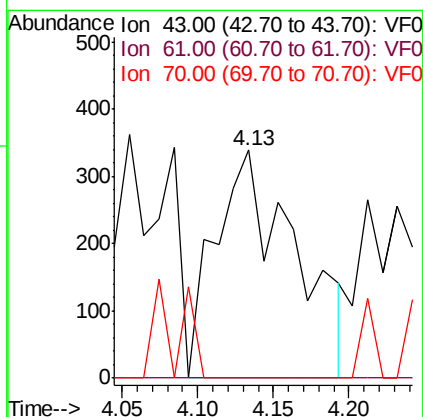
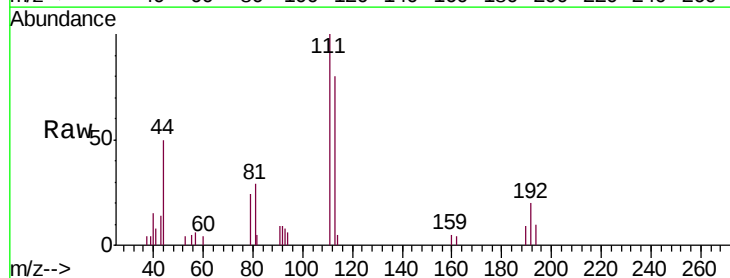
Instrument :
 MSVOA_F
 ClientSampleId :
 SR-5-SRE

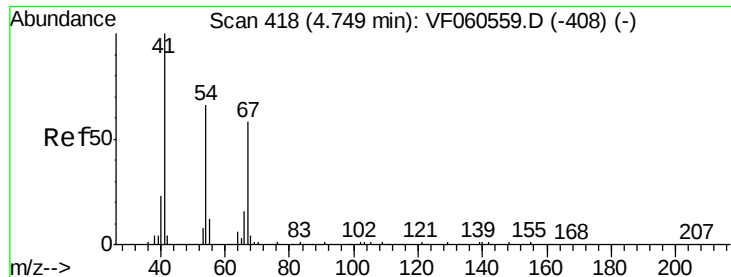
Tgt Ion:113 Resp: 24264
 Ion Ratio Lower Upper
 113 100
 111 91.4 79.9 119.9
 192 13.3 13.3 19.9



#37
 Ethyl Acetate
 Concen: 2.293 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. 0.03 min
 Lab File: VF060702.D
 Acq: 12 Nov 2018 23:51

Tgt Ion: 43 Resp: 1243
 Ion Ratio Lower Upper
 43 100
 61 0.0 63.4 95.2#
 70 0.0 9.3 13.9#





#41

Methacrylonitrile

Concen: 1.746 ug/l

RT: 4.76 min Scan# 419

Delta R.T. 0.02 min

Lab File: VF060702.D

Acq: 12 Nov 2018 23:51

Instrument :

MSVOA_F

ClientSampleId :

SR-5-SRE

Tgt Ion: 41 Resp: 536

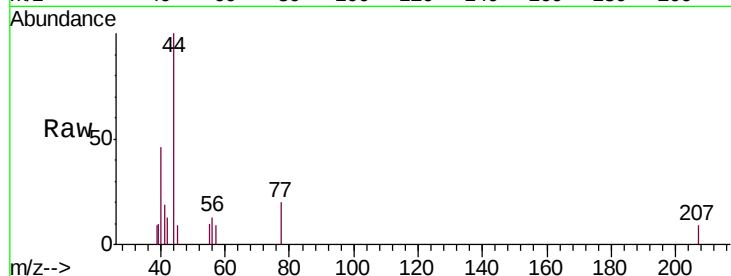
Ion Ratio Lower Upper

41 100

39 54.3 45.6 68.4

67 0.0 45.3 67.9#

52 0.0 29.6 44.4#

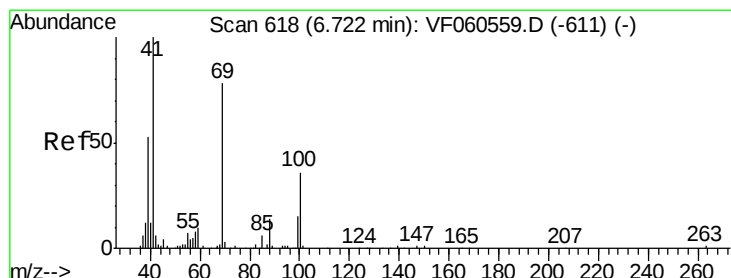
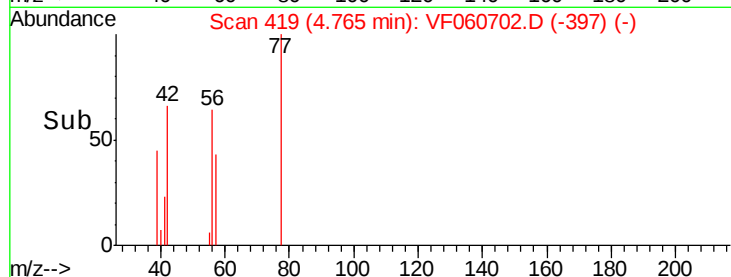
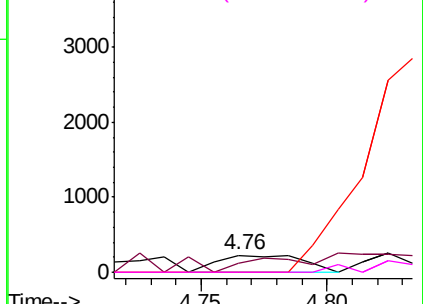


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#48

Methyl methacrylate

Concen: 1.341 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.01 min

Lab File: VF060702.D

Acq: 12 Nov 2018 23:51

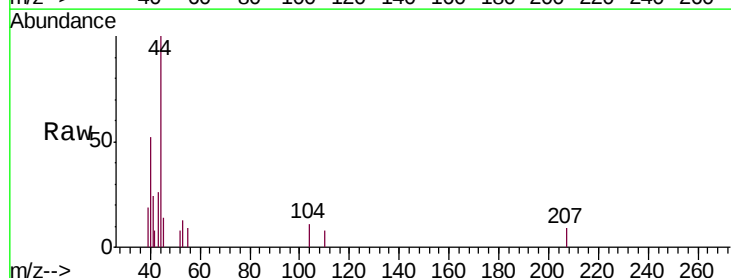
Tgt Ion: 41 Resp: 578

Ion Ratio Lower Upper

41 100

69 0.0 61.1 91.7#

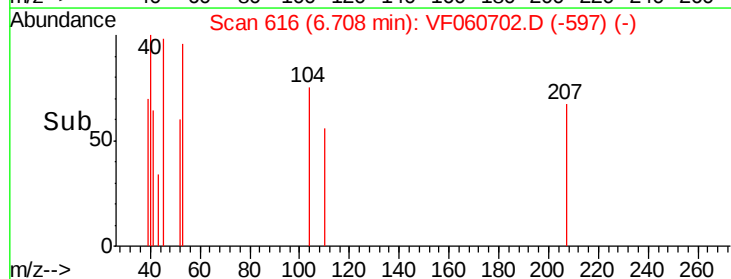
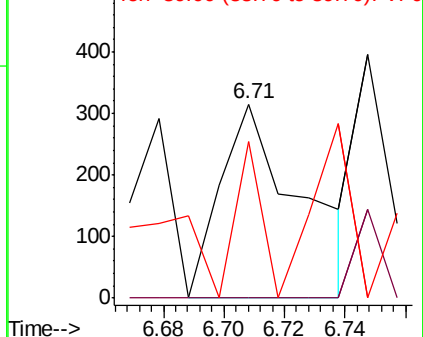
39 80.6 43.0 64.6#

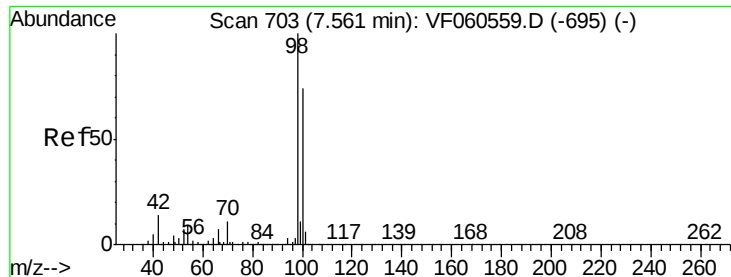


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

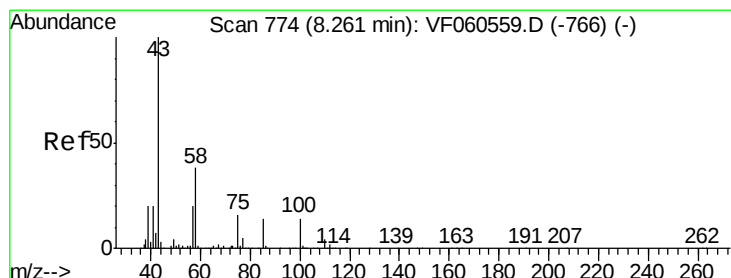
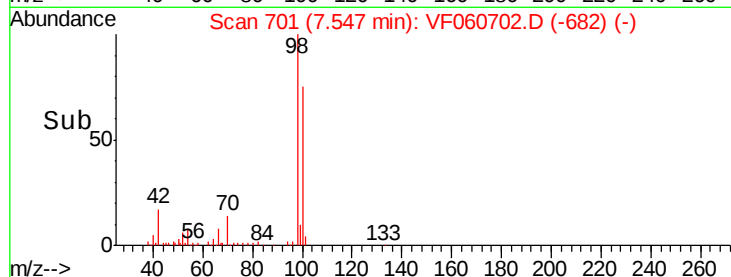
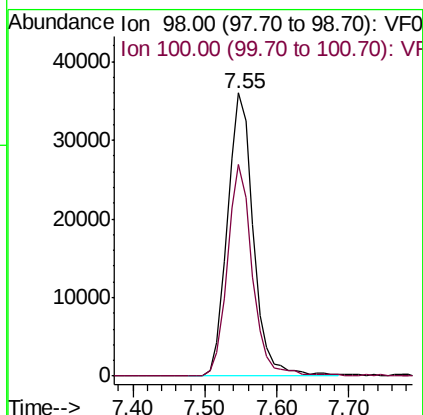
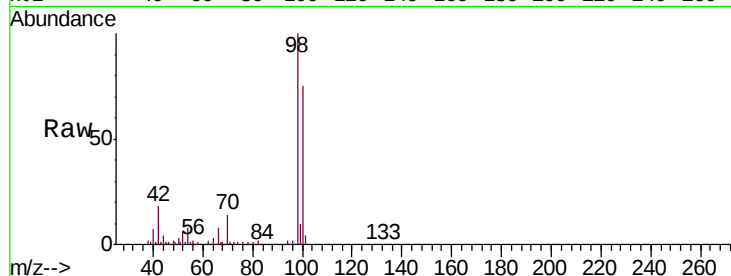




#50
Toluene-d8
Concen: 38.536 ug/l
RT: 7.55 min Scan# 701
Delta R.T. -0.01 min
Lab File: VF060702.D
Acq: 12 Nov 2018 23:51

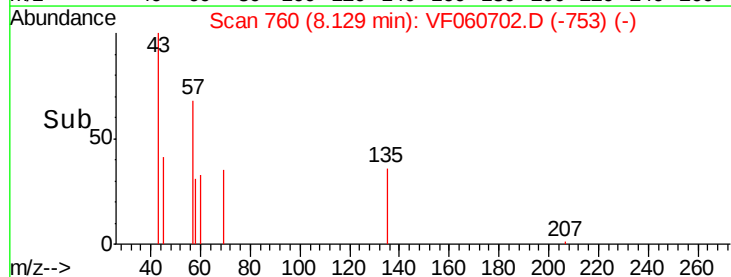
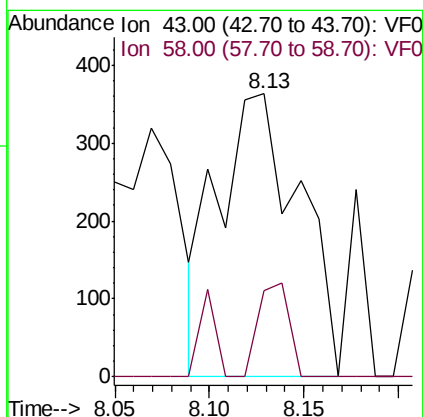
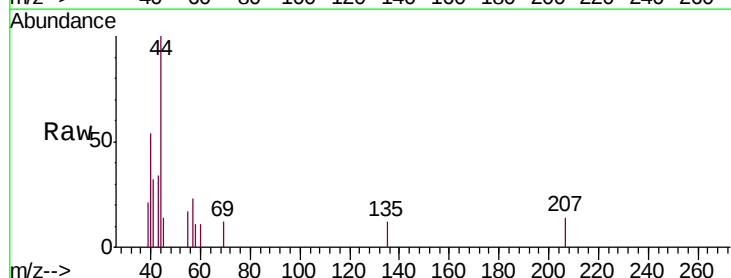
Instrument :
MSVOA_F
ClientSampleId :
SR-5-SRE

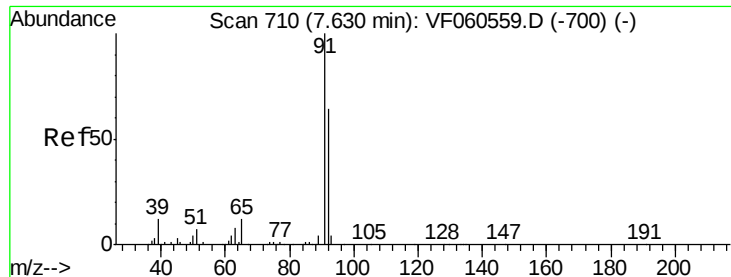
Tgt Ion: 98 Resp: 90438
Ion Ratio Lower Upper
98 100
100 75.0 59.4 89.2



#51
4-Methyl-2-Pentanone
Concen: 2.364 ug/l
RT: 8.13 min Scan# 760
Delta R.T. -0.13 min
Lab File: VF060702.D
Acq: 12 Nov 2018 23:51

Tgt Ion: 43 Resp: 1090
Ion Ratio Lower Upper
43 100
58 30.6 30.1 45.1





#52

Toluene

Concen: 4.344 ug/l

RT: 7.62 min Scan# 708

Delta R.T. -0.01 min

Lab File: VF060702.D

Acq: 12 Nov 2018 23:51

Instrument :

MSVOA_F

ClientSampled :

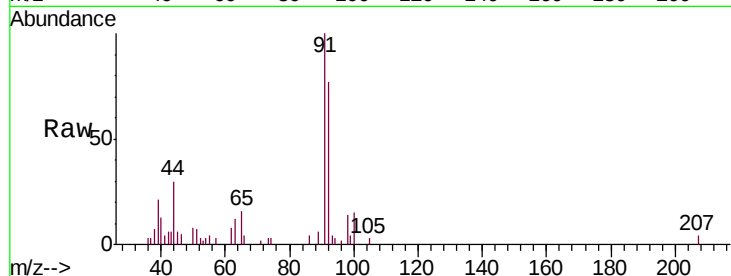
SR-5-SRE

Tgt Ion: 92 Resp: 7755

Ion Ratio Lower Upper

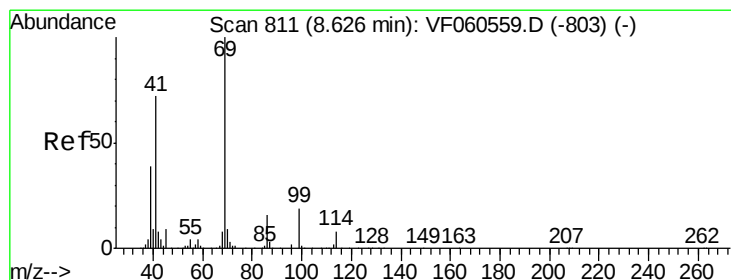
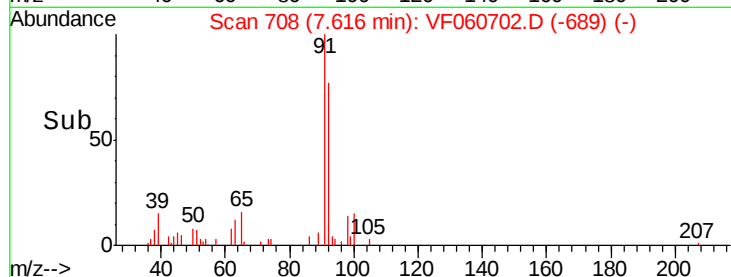
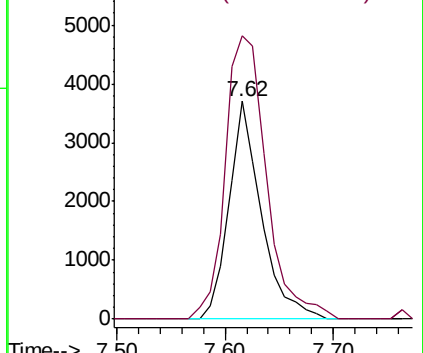
92 100

91 129.9 124.5 186.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#56

Ethyl methacrylate

Concen: 2.036 ug/l

RT: 8.60 min Scan# 808

Delta R.T. -0.02 min

Lab File: VF060702.D

Acq: 12 Nov 2018 23:51

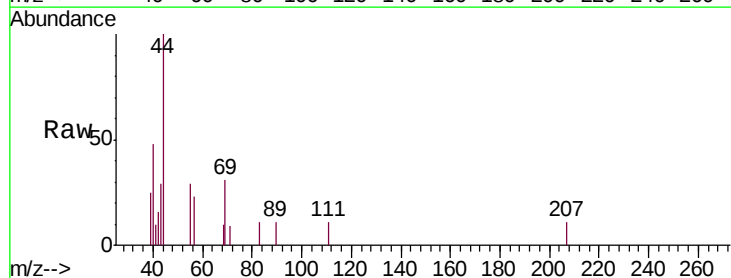
Tgt Ion: 69 Resp: 1361

Ion Ratio Lower Upper

69 100

41 32.8 59.2 88.8#

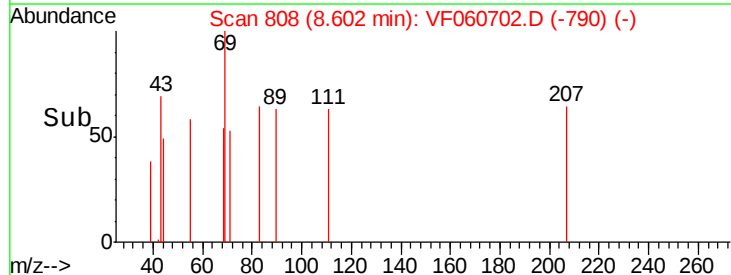
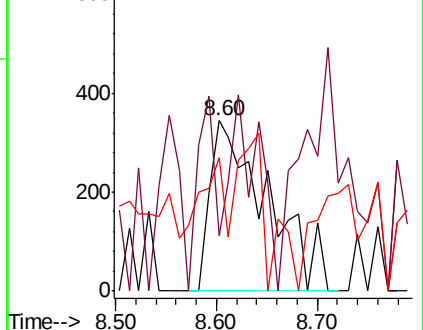
39 78.5 32.3 48.5#

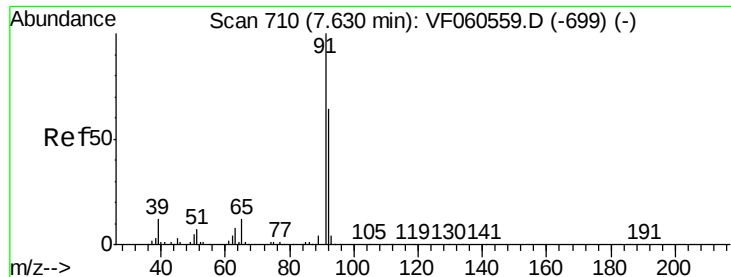


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

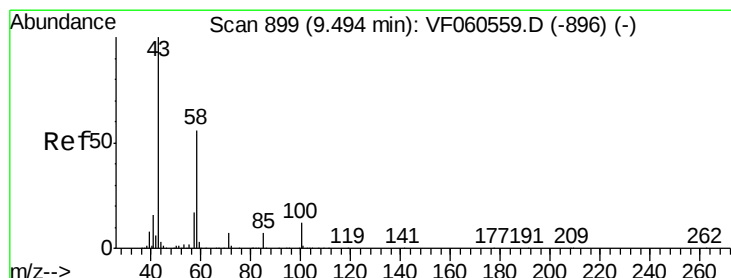
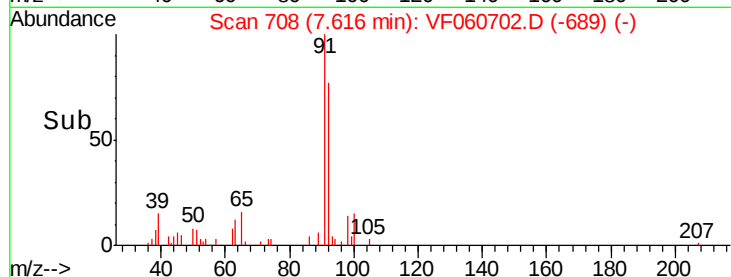
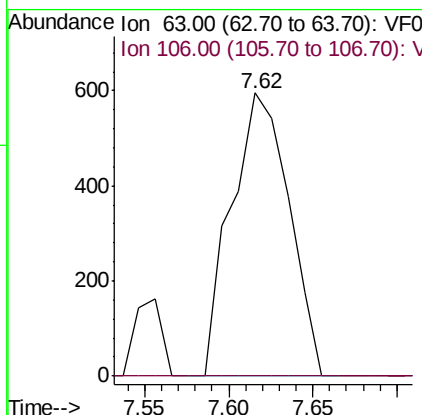
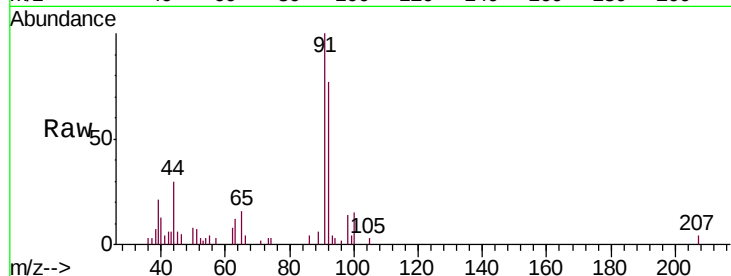




#58
 2-Chloroethyl Vinyl ether
 Concen: 13.421 ug/l
 RT: 7.62 min Scan# 708
 Delta R.T. -0.01 min
 Lab File: VF060702.D
 Acq: 12 Nov 2018 23:51

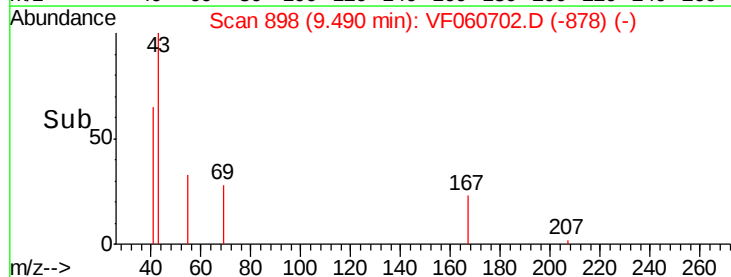
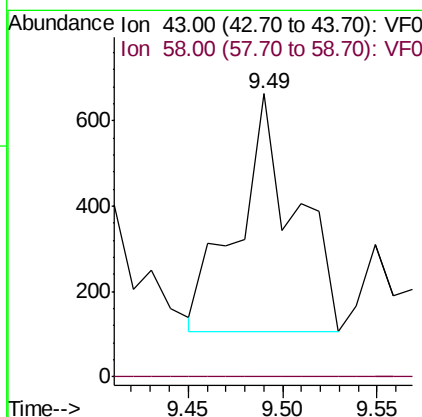
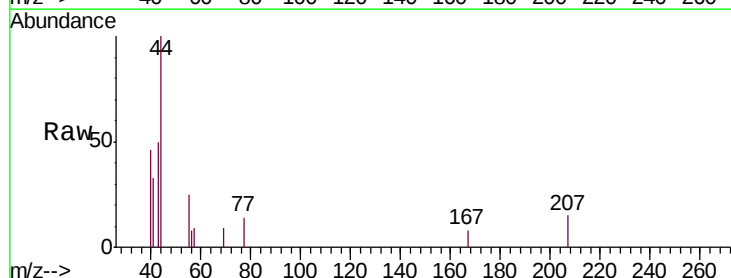
Instrument :
 MSVOA_F
 ClientSampleId :
 SR-5-SRE

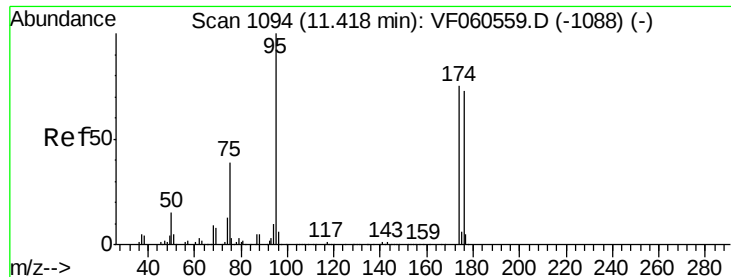
Tgt Ion: 63 Resp: 1418
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: Below Cal
 RT: 9.49 min Scan# 898
 Delta R.T. -0.00 min
 Lab File: VF060702.D
 Acq: 12 Nov 2018 23:51

Tgt Ion: 43 Resp: 1188
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.1 78.3#





#62

4-Bromofluorobenzene

Concen: 20.465 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF060702.D

Acq: 12 Nov 2018 23:51

Instrument :

MSVOA_F

ClientSampleId :

SR-5-SRE

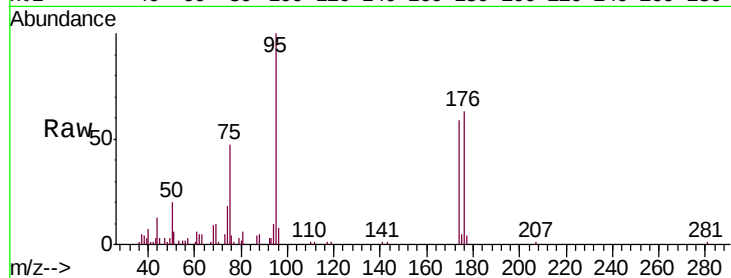
Tgt Ion: 95 Resp: 21008

Ion Ratio Lower Upper

95 100

174 59.4 0.0 149.0

176 63.0 0.0 145.6

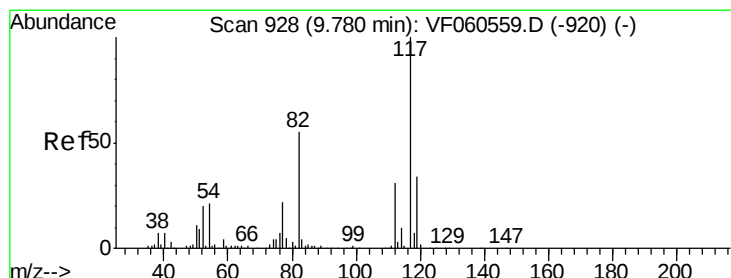
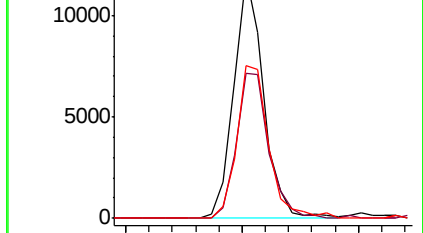
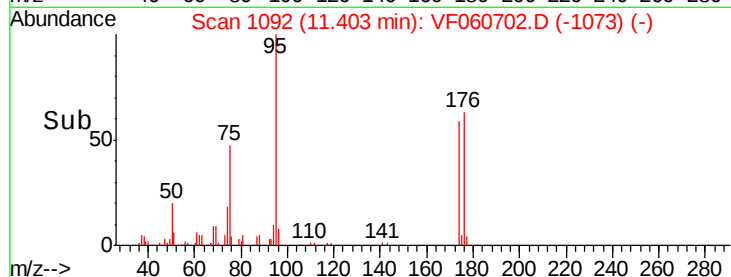


Abundance Ion 95.00 (94.70 to 95.70): VF060559.D (-1088) (-)

Ion 174.00 (173.70 to 174.70): VF060559.D (-1088) (-)

Ion 176.00 (175.70 to 176.70): VF060559.D (-1088) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 926

Delta R.T. -0.01 min

Lab File: VF060702.D

Acq: 12 Nov 2018 23:51

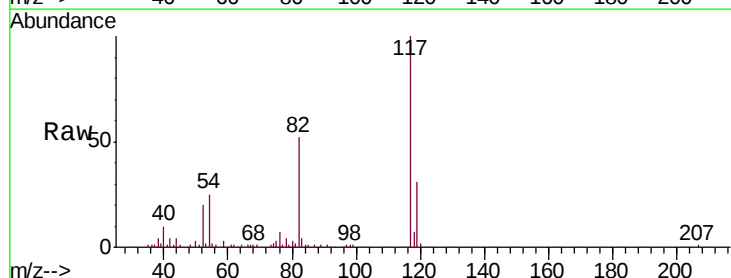
Tgt Ion: 117 Resp: 61625

Ion Ratio Lower Upper

117 100

82 52.1 43.9 65.9

119 30.8 27.4 41.0

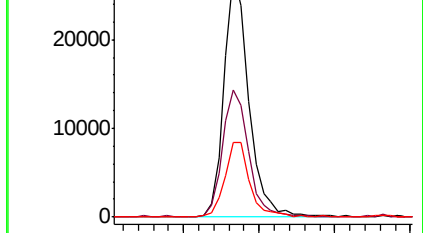
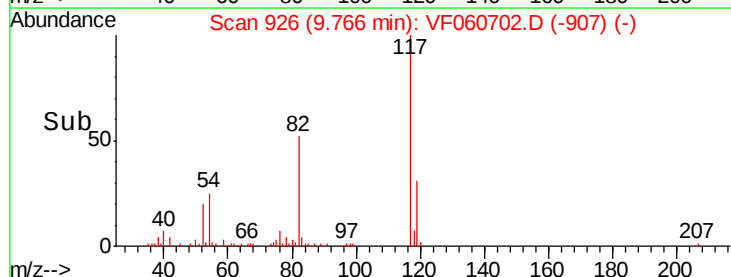


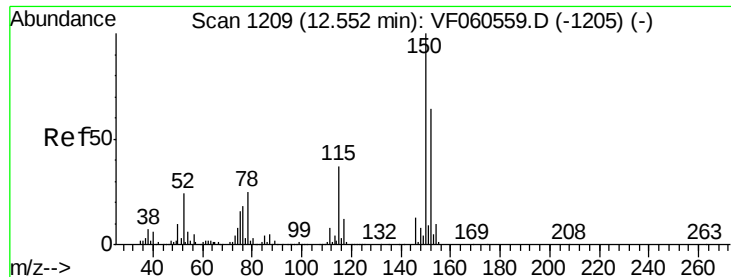
Abundance Ion 117.00 (116.70 to 117.70): VF060559.D (-920) (-)

Ion 82.00 (81.70 to 82.70): VF060559.D (-920) (-)

Ion 119.00 (118.70 to 119.70): VF060559.D (-920) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF060702.D

Acq: 12 Nov 2018 23:51

Instrument :

MSVOA_F

ClientSampleId :

SR-5-SRE

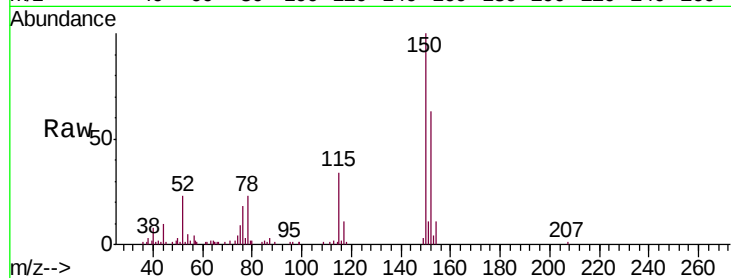
Tgt Ion: 152 Resp: 15932

Ion Ratio Lower Upper

152 100

115 53.5 29.6 88.8

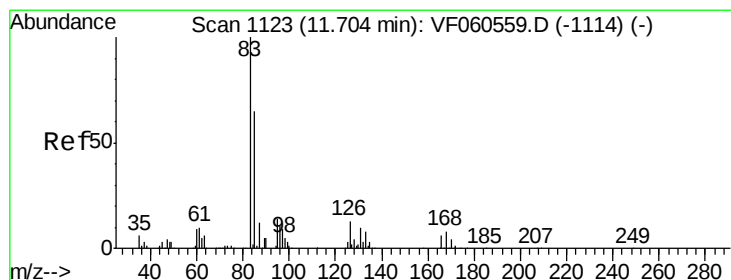
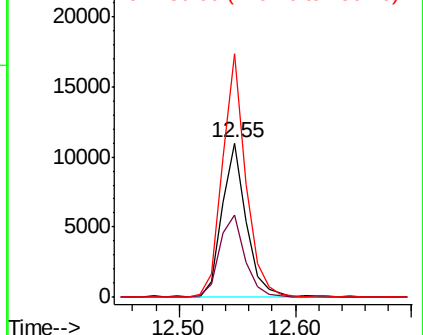
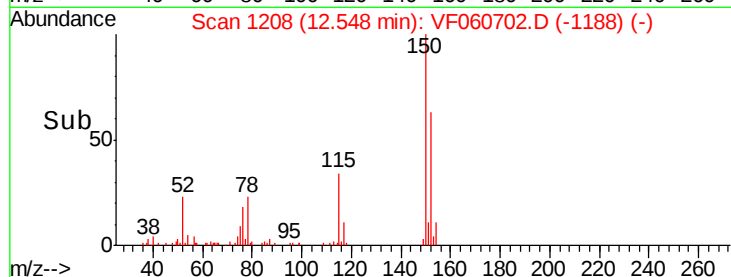
150 157.9 0.0 315.6



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#75

1,1,2,2-Tetrachloroethane

Concen: 1.213 ug/l

RT: 11.67 min Scan# 1119

Delta R.T. -0.03 min

Lab File: VF060702.D

Acq: 12 Nov 2018 23:51

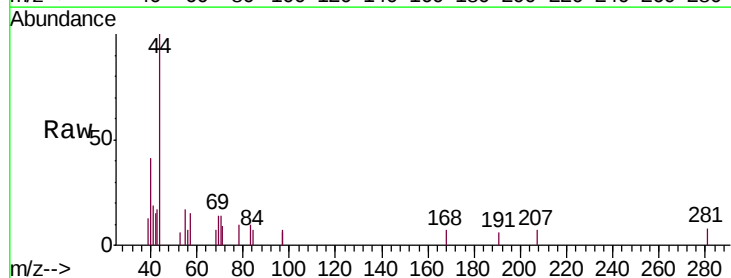
Tgt Ion: 83 Resp: 275

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.9 98.7#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

