

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112018\
 Data File : VF060810.D
 Acq On : 20 Nov 2018 18:41
 Operator : VA/AP
 Sample : J6010-01
 Misc : 6.28g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 21 02:49:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	192618	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	342409	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.79	117	269607	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	107850	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	118049	53.73	ug/l	0.00
Spiked Amount			Recovery	=	107.46%	
35) Dibromofluoromethane	4.12	113	134155	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
50) Toluene-d8	7.57	98	299196	44.93	ug/l	0.00
Spiked Amount			Recovery	=	89.86%	
62) 4-Bromofluorobenzene	11.41	95	127885	41.28	ug/l	0.00
Spiked Amount			Recovery	=	82.56%	

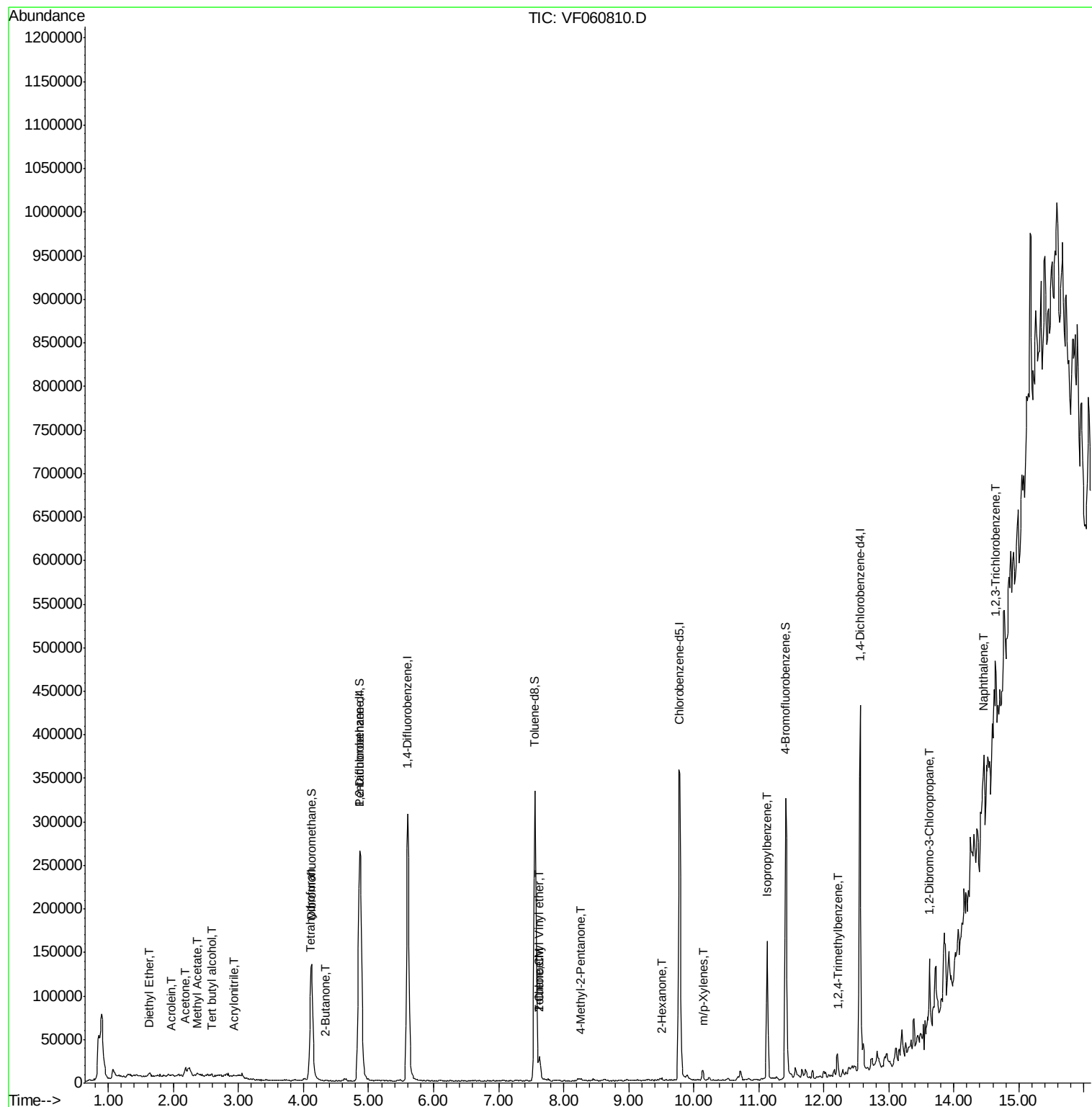
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	1375	2.538	ug/l	90
11) Tert butyl alcohol	2.59	59	565	5.651	ug/l #	1
13) Acrolein	1.96	56	148	1.619	ug/l #	48
15) Acrylonitrile	2.94	53	674	3.163	ug/l #	58
16) Acetone	2.18	43	1389	2.958	ug/l	94
18) Methyl Acetate	2.36	43	2137	2.771	ug/l #	64
25) 2-Butanone	4.34	43	2055	2.660	ug/l #	56
29) Tetrahydrofuran	4.09	42	1143	3.587	ug/l #	68
41) Methacrylonitrile	4.72	41	331	Below Cal	#	26
51) 4-Methyl-2-Pentanone	8.27	43	2649	1.871	ug/l	96
52) Toluene	7.64	92	13004	2.192	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.63	63	2103	11.960	ug/l	100
59) 2-Hexanone	9.51	43	2756	2.770	ug/l	77
68) m/p-Xylenes	10.14	106	3753	1.024	ug/l	94
73) Isopropylbenzene	11.13	105	110106	12.683	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	10380	1.456	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	13.62	75	3115	11.547	ug/l #	7
95) Naphthalene	14.46	128	6879	1.549	ug/l #	80
96) 1,2,3-Trichlorobenzene	14.64	180	14994	6.667	ug/l #	15

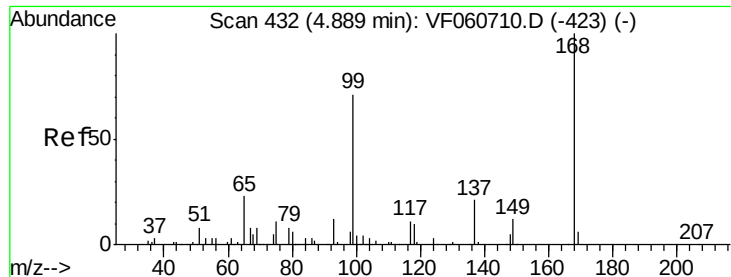
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF112018\
Data File : VF060810.D
Acq On : 20 Nov 2018 18:41
Operator : VA/AP
Sample : J6010-01
Misc : 6.28g/5mL/MSVOA-F/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Nov 21 02:49:57 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF060810.D

Acq: 20 Nov 2018 18:41

Instrument :

MSVOA_F

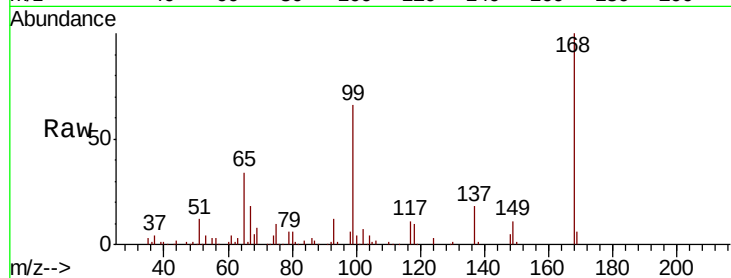
ClientSampleId :

Tot Ion:168 Resp: 192618

Ion Ratio Lower Upper

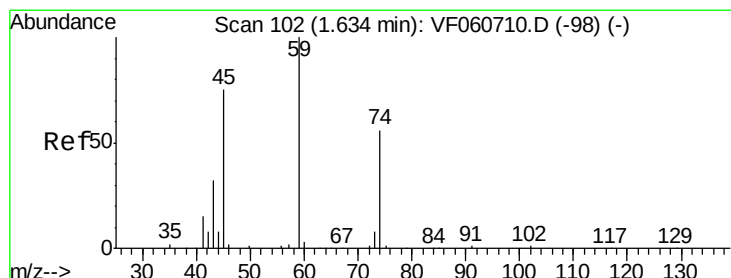
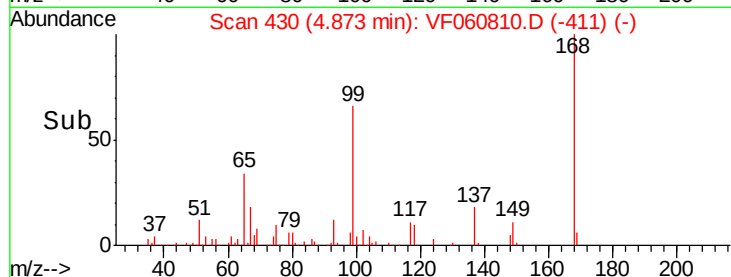
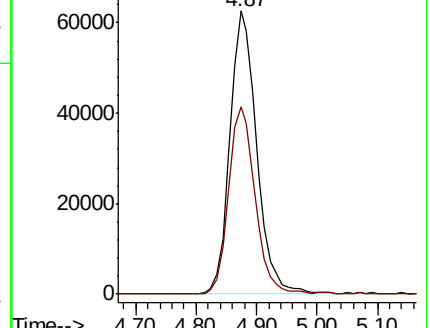
168 100

99 66.3 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 2.538 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF060810.D

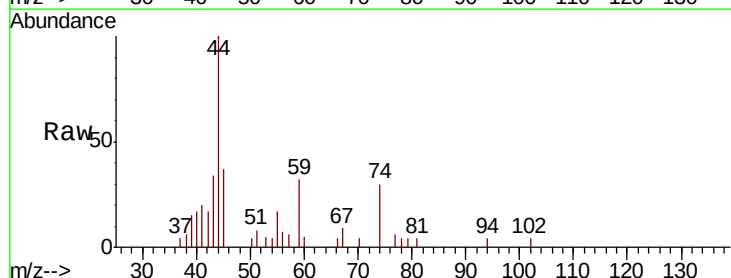
Acq: 20 Nov 2018 18:41

Tgt Ion: 74 Resp: 1375

Ion Ratio Lower Upper

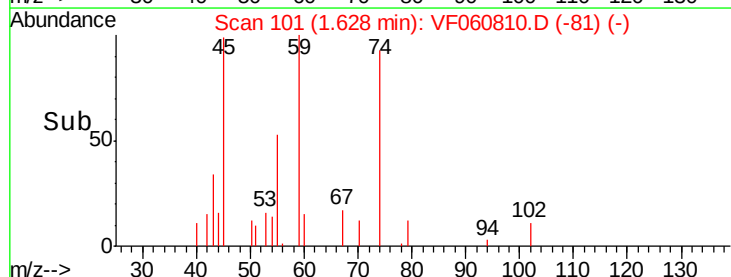
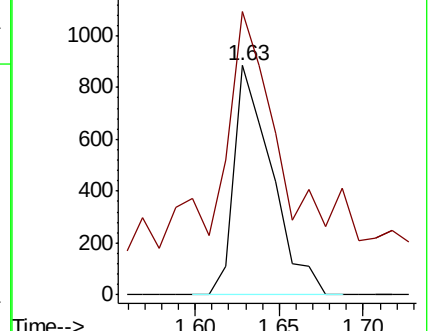
74 100

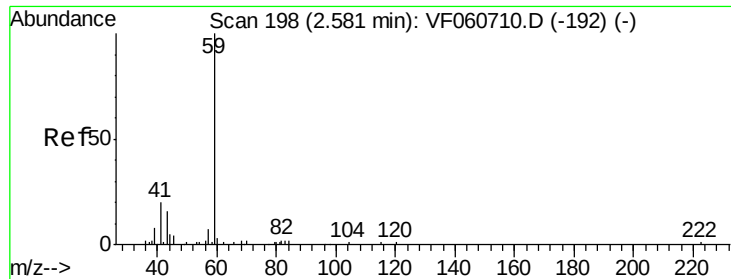
45 123.5 67.7 203.1



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

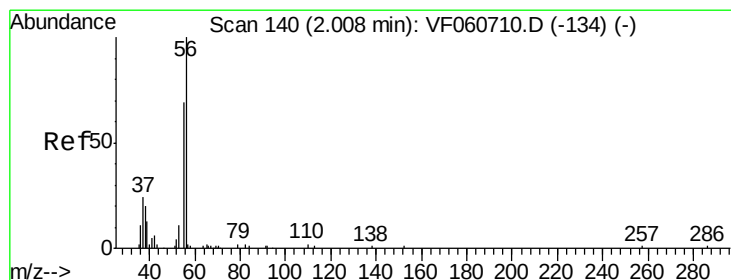
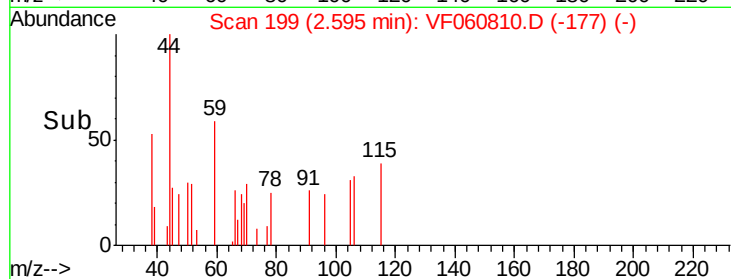
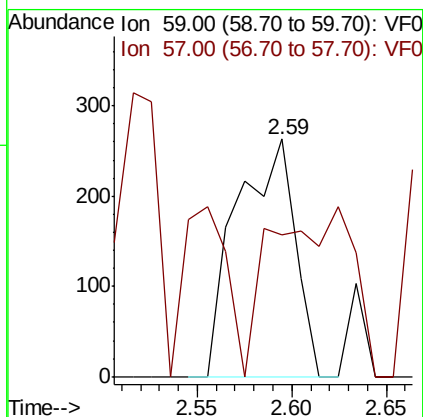
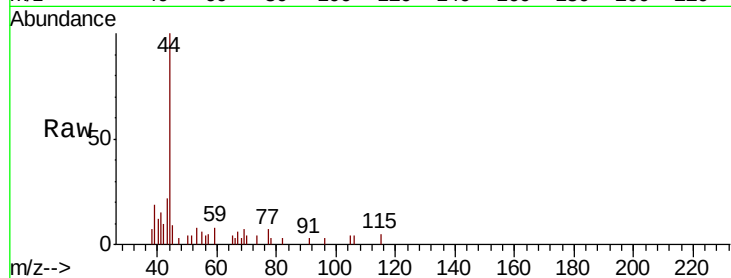




#11
Tert butyl alcohol
Concen: 5.651 ug/l
RT: 2.59 min Scan# 199
Delta R.T. 0.01 min
Lab File: VF060810.D
Acq: 20 Nov 2018 18:41

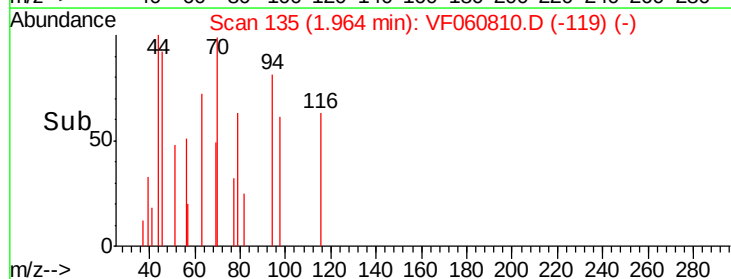
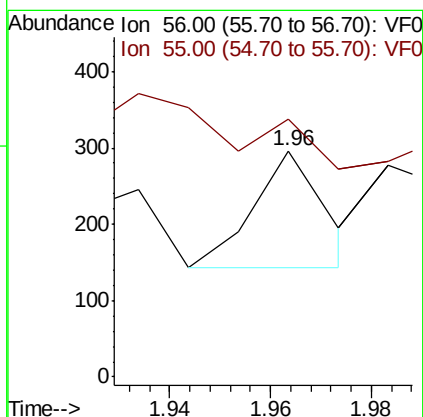
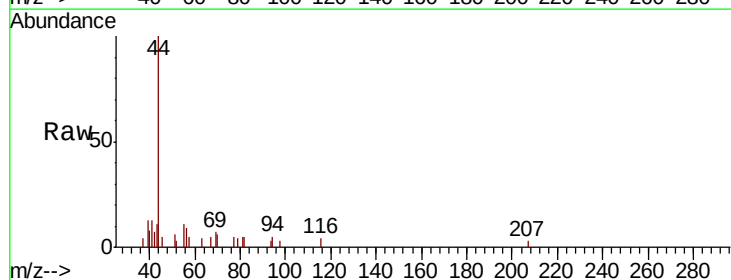
Instrument :
MSVOA_F
ClientSampled :

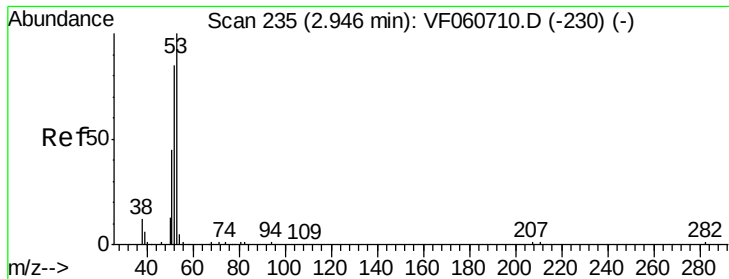
Tot Ion: 59 Resp: 565
Ion Ratio Lower Upper
59 100
57 59.7 10.5 15.7#



#13
Acrolein
Concen: 1.619 ug/l
RT: 1.96 min Scan# 135
Delta R.T. -0.04 min
Lab File: VF060810.D
Acq: 20 Nov 2018 18:41

Tgt Ion: 56 Resp: 148
Ion Ratio Lower Upper
56 100
55 113.9 56.6 85.0#





#15

Acrylonitrile

Concen: 3.163 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF060810.D

Acq: 20 Nov 2018 18:41

Instrument :
MSVOA_F
ClientSampled :

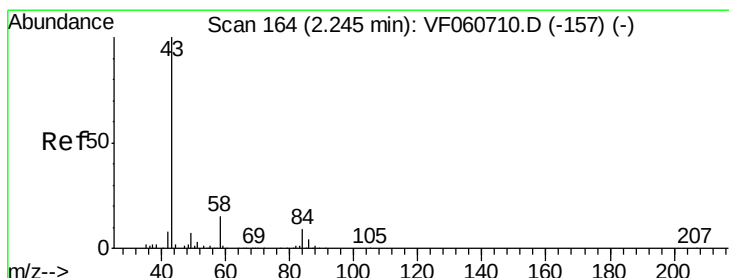
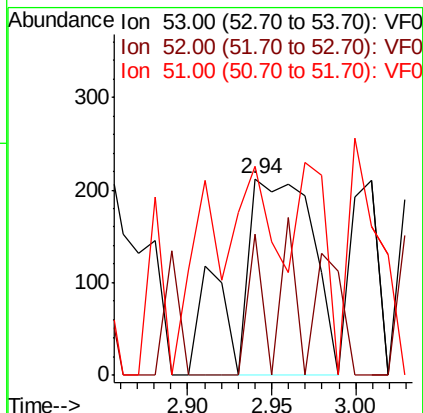
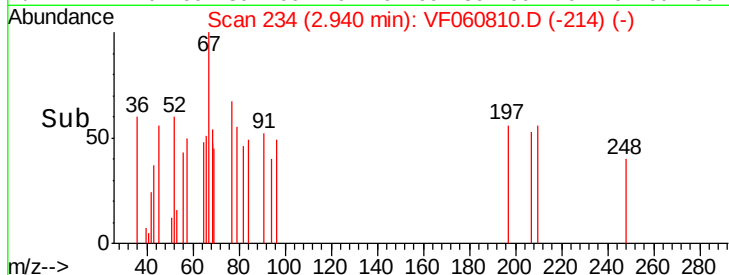
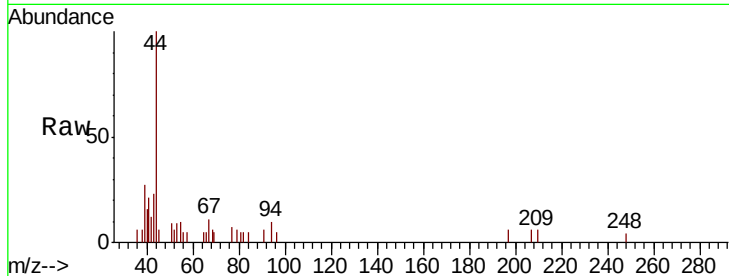
Tot Ion: 53 Resp: 674

Ion Ratio Lower Upper

53 100

52 72.2 68.8 103.2

51 106.1 36.7 55.1#



#16

Acetone

Concen: 2.958 ug/l

RT: 2.18 min Scan# 157

Delta R.T. -0.06 min

Lab File: VF060810.D

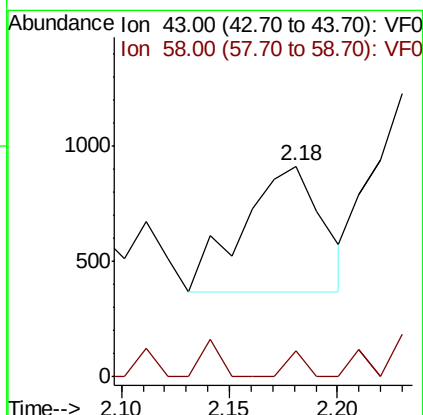
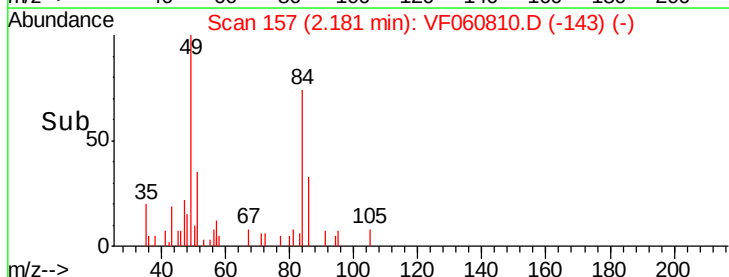
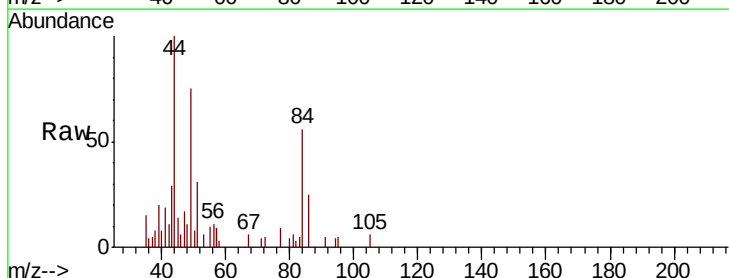
Acq: 20 Nov 2018 18:41

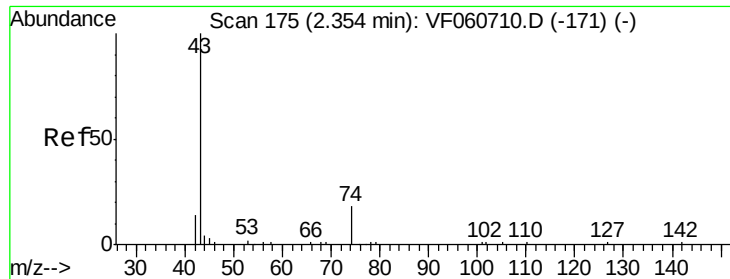
Tgt Ion: 43 Resp: 1389

Ion Ratio Lower Upper

43 100

58 12.2 11.6 17.4

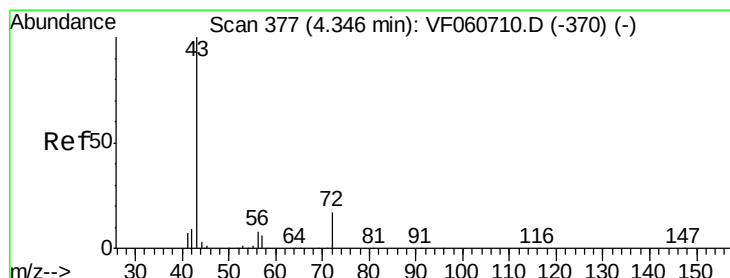
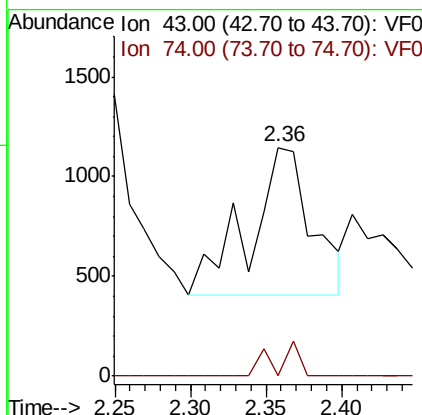
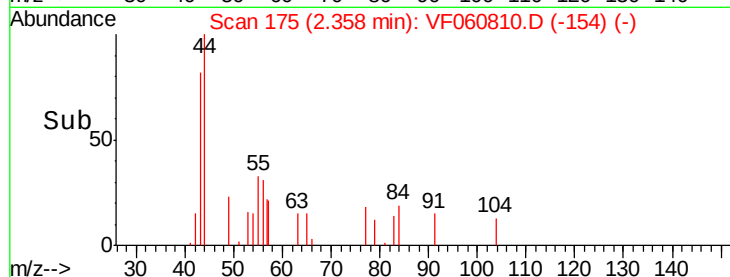
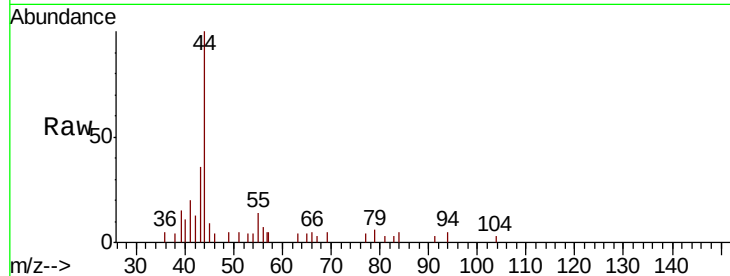




#18
Methyl Acetate
Concen: 2.771 ug/l
RT: 2.36 min Scan# 175
Delta R.T. 0.00 min
Lab File: VF060810.D
Acq: 20 Nov 2018 18:41

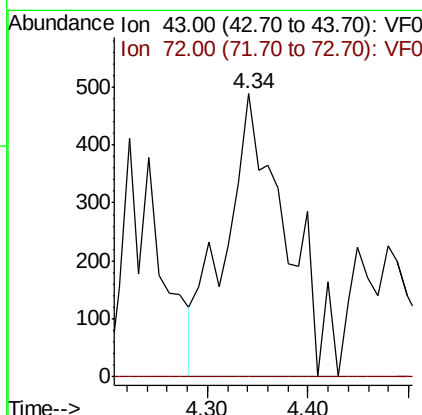
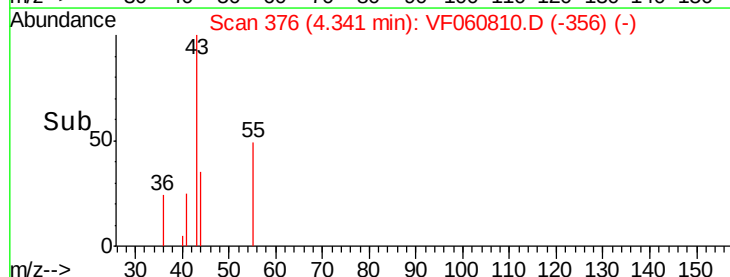
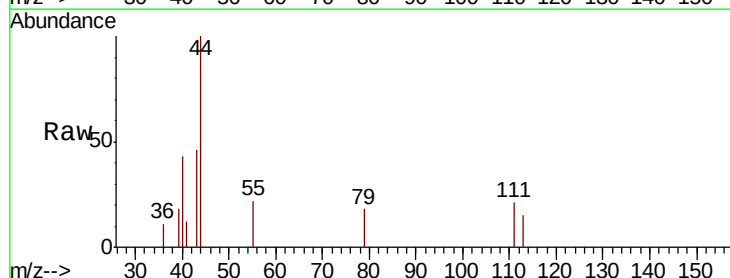
Instrument :
MSVOA_F
ClientSampleId :

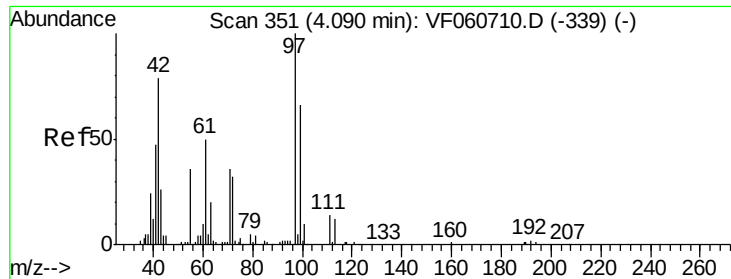
Tot Ion: 43 Resp: 2137
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#



#25
2-Butanone
Concen: 2.660 ug/l
RT: 4.34 min Scan# 376
Delta R.T. -0.01 min
Lab File: VF060810.D
Acq: 20 Nov 2018 18:41

Tgt Ion: 43 Resp: 2055
Ion Ratio Lower Upper
43 100
72 0.0 16.1 24.1#





#29

Tetrahydrofuran

Concen: 3.587 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.00 min

Lab File: VF060810.D

Acq: 20 Nov 2018 18:41

Instrument :
MSVOA_F
ClientSampled :

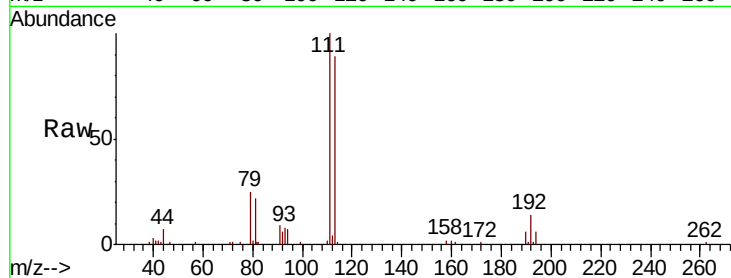
Tot Ion: 42 Resp: 1143

Ion Ratio Lower Upper

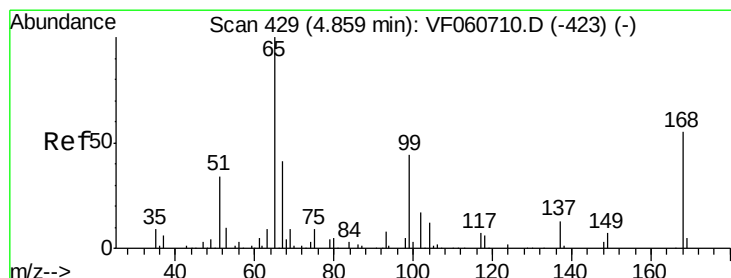
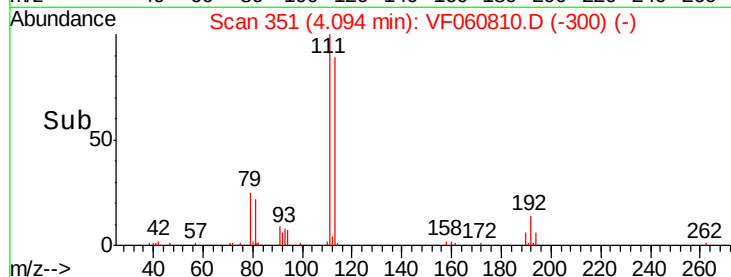
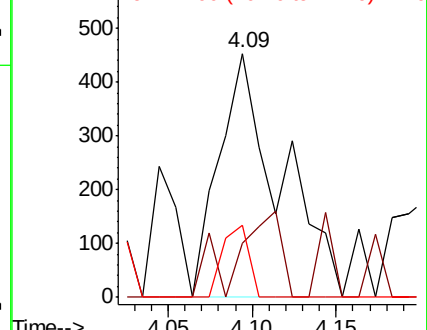
42 100

72 26.6 30.3 45.5#

71 12.6 32.2 48.2#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 53.731 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060810.D

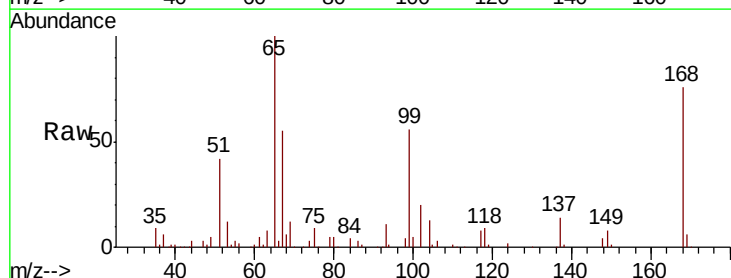
Acq: 20 Nov 2018 18:41

Tgt Ion: 65 Resp: 118049

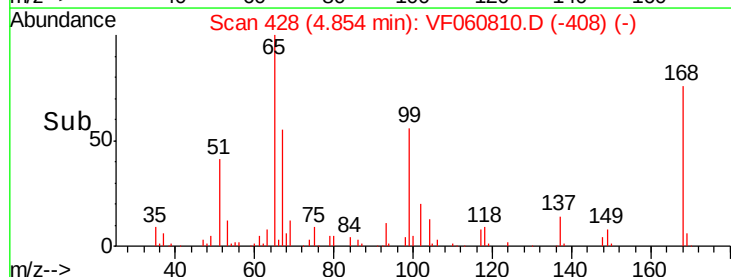
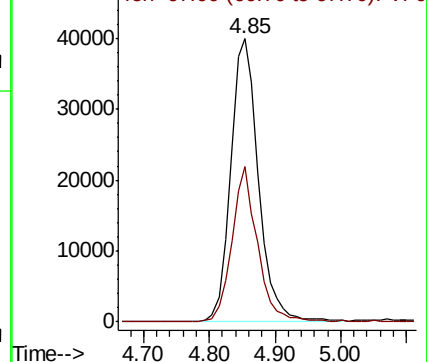
Ion Ratio Lower Upper

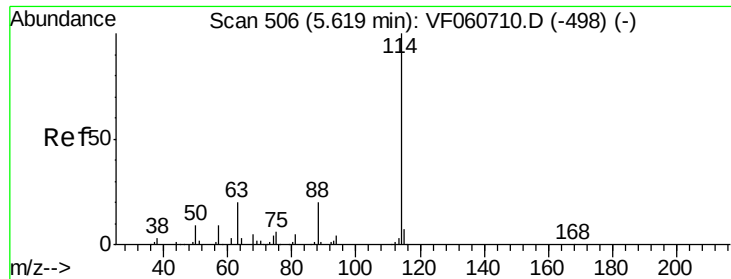
65 100

67 54.9 0.0 90.2



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.02 min

Lab File: VF060810.D

Acq: 20 Nov 2018 18:41

Instrument :

MSVOA_F

ClientSampleId :

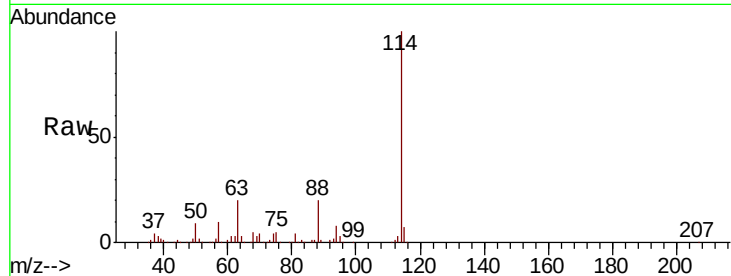
Tot Ion:114 Resp: 342409

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.8

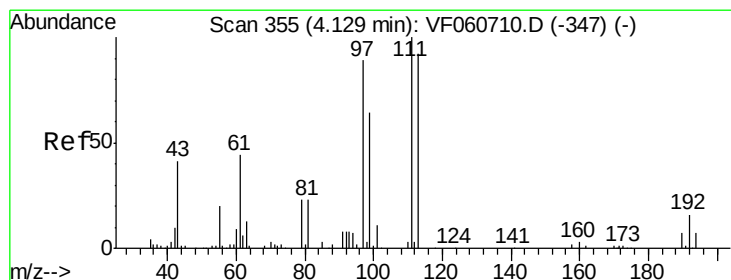
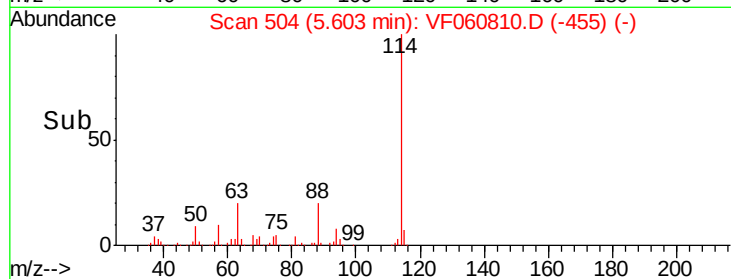
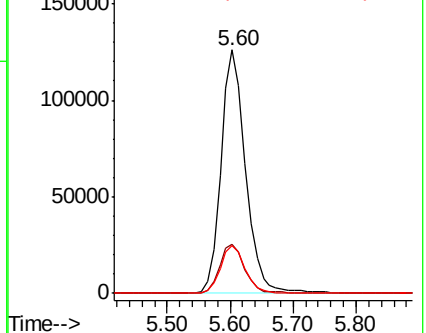
88 19.6 0.0 39.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 52.122 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF060810.D

Acq: 20 Nov 2018 18:41

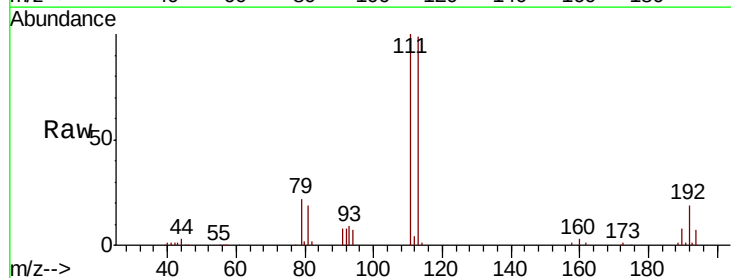
Tgt Ion:113 Resp: 134155

Ion Ratio Lower Upper

113 100

111 100.8 87.1 130.7

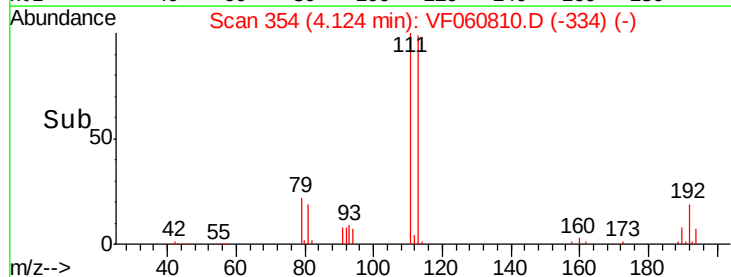
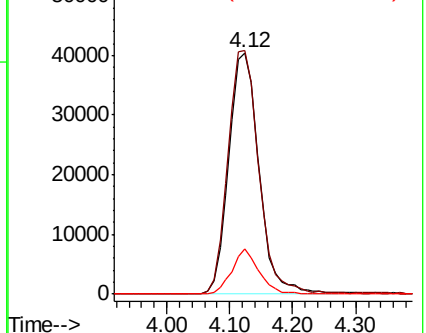
192 18.9 13.8 20.6

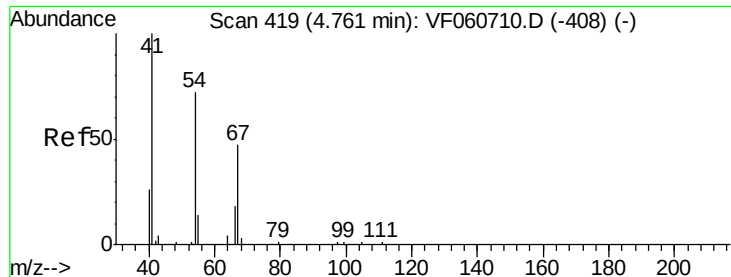


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: Below Cal

RT: 4.72 min Scan# 414

Delta R.T. -0.04 min

Lab File: VF060810.D

Acq: 20 Nov 2018 18:41

Instrument :

MSVOA_F

ClientSampled :

Tot Ion: 41 Resp: 331

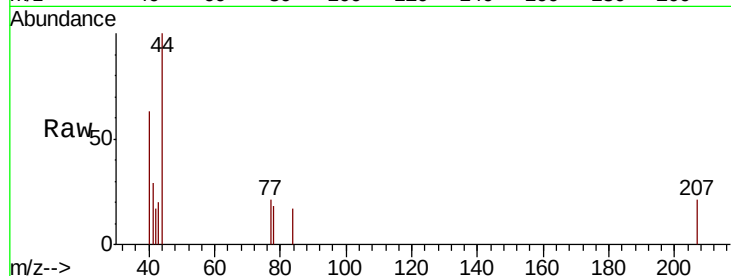
Ion Ratio Lower Upper

41 100

39 0.0 47.1 70.7#

67 0.0 37.1 55.7#

52 0.0 39.3 58.9#

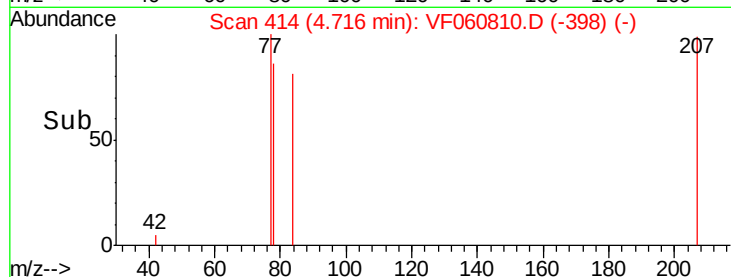
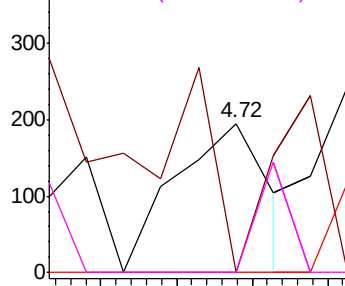


Abundance Ion 41.00 (40.70 to 41.70): VF0

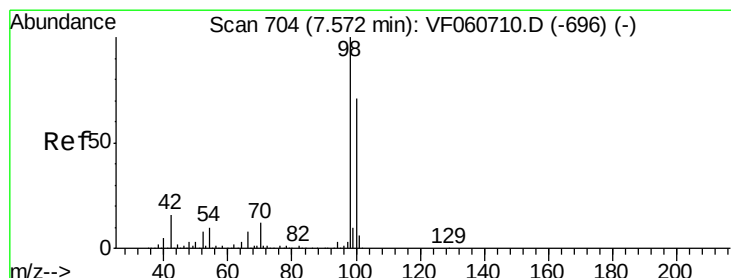
Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



Time-->



#50

Toluene-d8

Concen: 44.926 ug/l

RT: 7.57 min Scan# 703

Delta R.T. -0.00 min

Lab File: VF060810.D

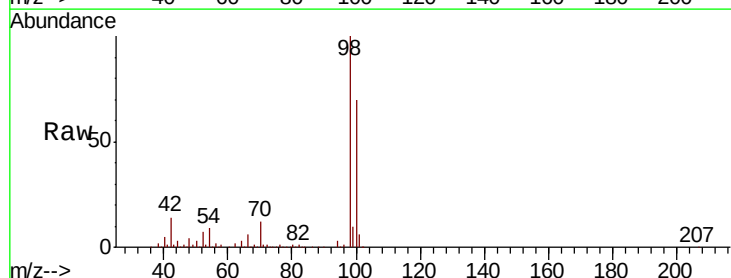
Acq: 20 Nov 2018 18:41

Tgt Ion: 98 Resp: 299196

Ion Ratio Lower Upper

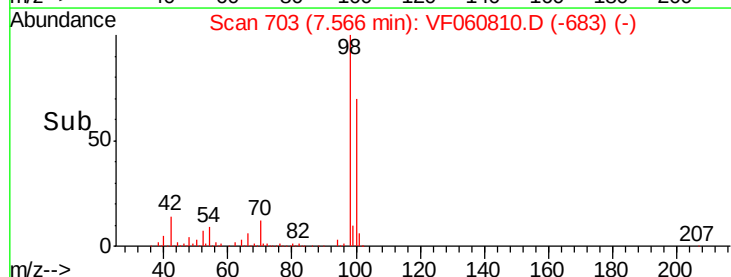
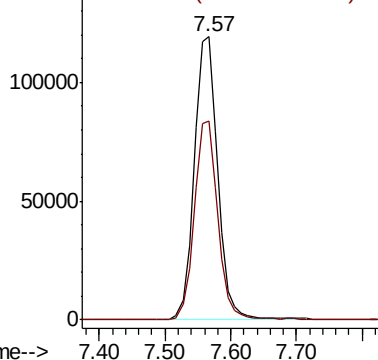
98 100

100 70.2 56.5 84.7

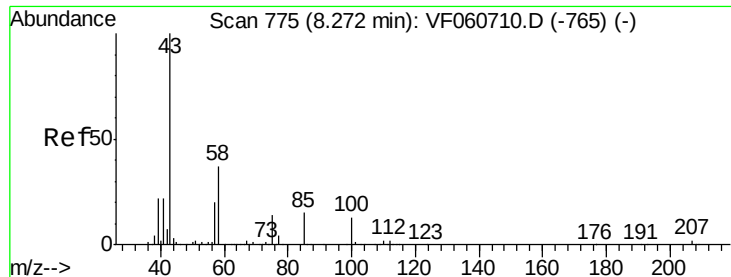


Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.871 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF060810.D

Acq: 20 Nov 2018 18:41

Instrument :

MSVOA_F

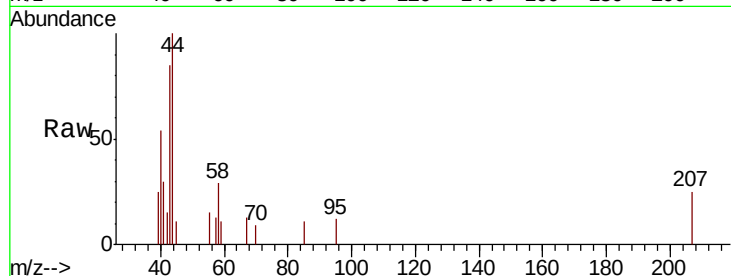
ClientSampled :

Tot Ion: 43 Resp: 2649

Ion Ratio Lower Upper

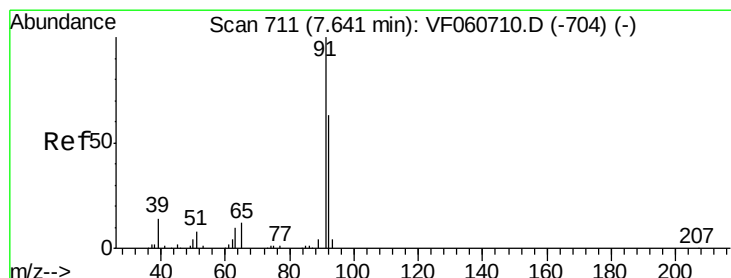
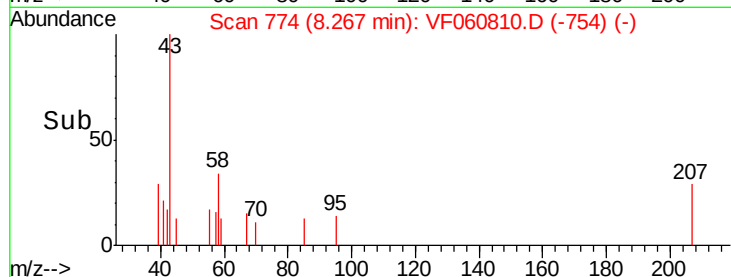
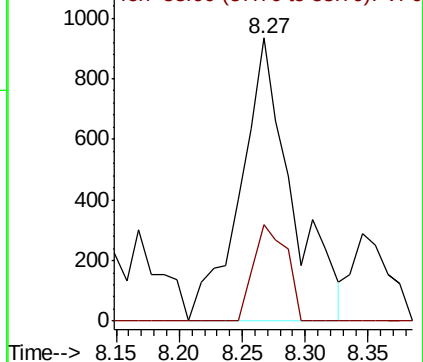
43 100

58 34.0 29.2 43.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 2.192 ug/l

RT: 7.64 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF060810.D

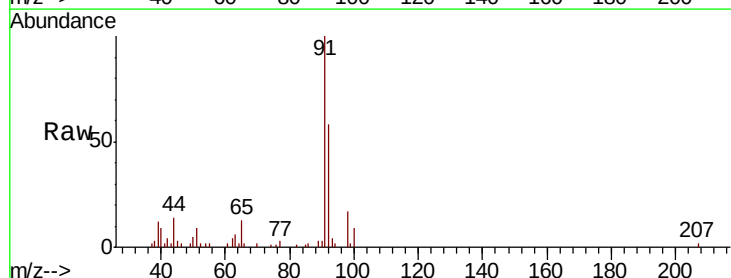
Acq: 20 Nov 2018 18:41

Tgt Ion: 92 Resp: 13004

Ion Ratio Lower Upper

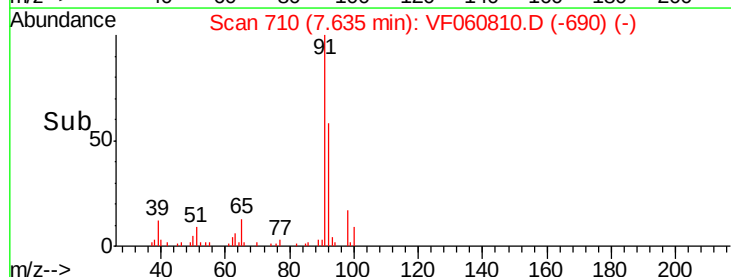
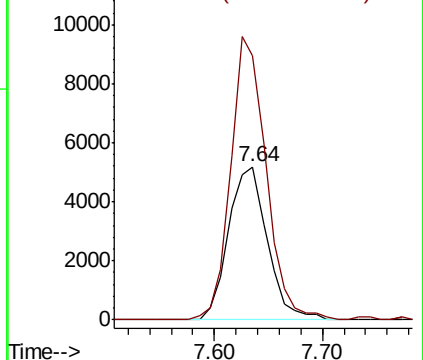
92 100

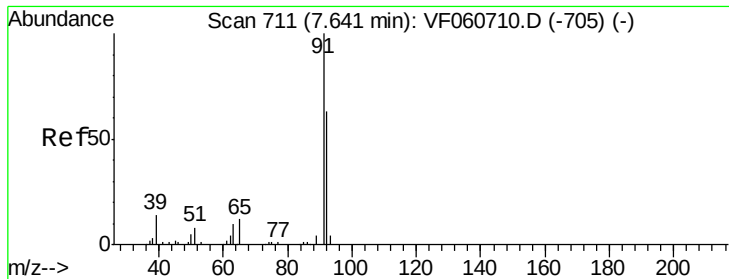
91 172.4 126.7 190.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 11.960 ug/l

RT: 7.63 min Scan# 709

Delta R.T. -0.02 min

Lab File: VF060810.D

Acq: 20 Nov 2018 18:41

Instrument :

MSVOA_F

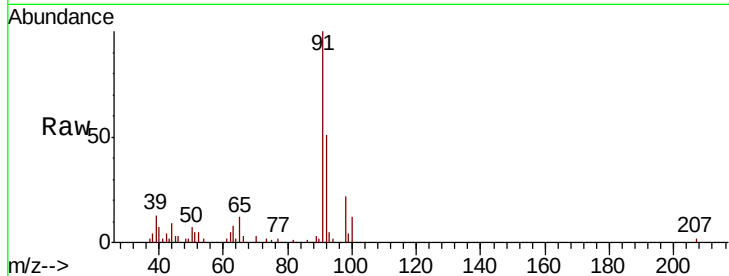
ClientSampleId :

Tot Ion: 63 Resp: 2103

Ion Ratio Lower Upper

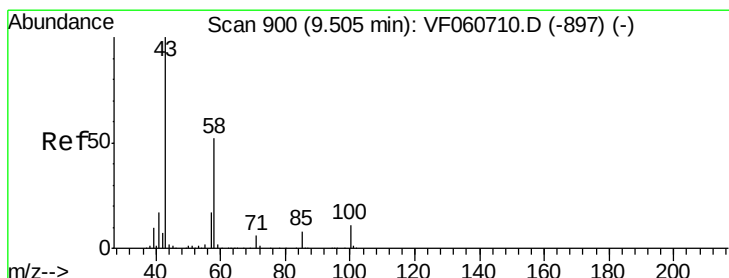
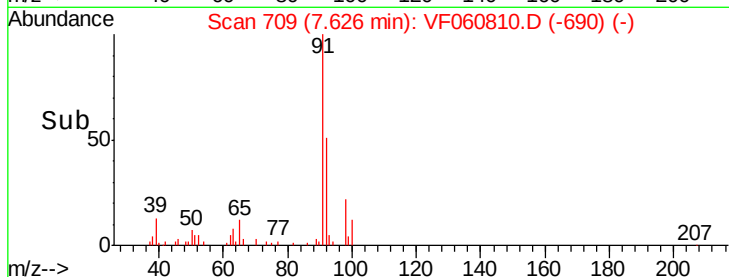
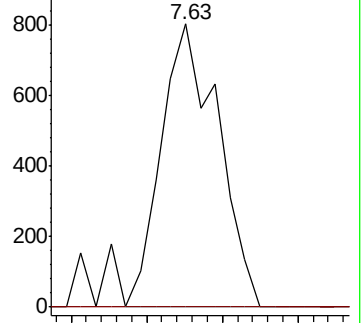
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 2.770 ug/l

RT: 9.51 min Scan# 900

Delta R.T. 0.00 min

Lab File: VF060810.D

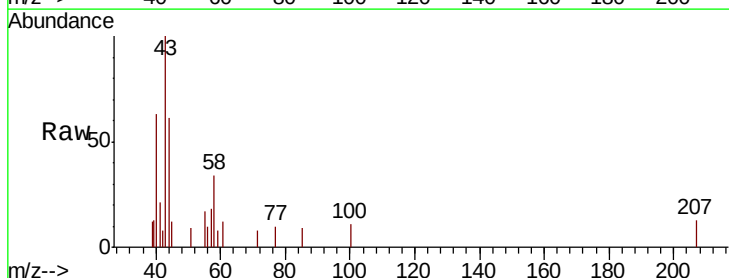
Acq: 20 Nov 2018 18:41

Tgt Ion: 43 Resp: 2756

Ion Ratio Lower Upper

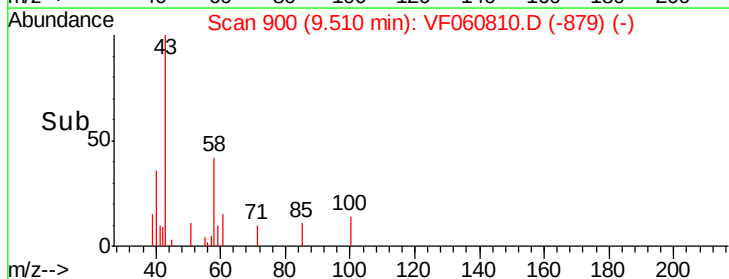
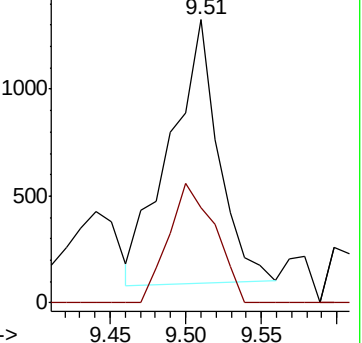
43 100

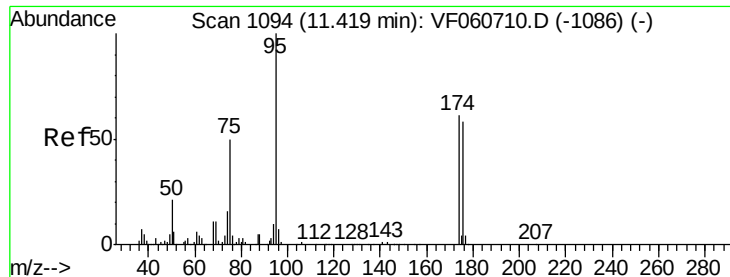
58 33.7 24.9 74.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

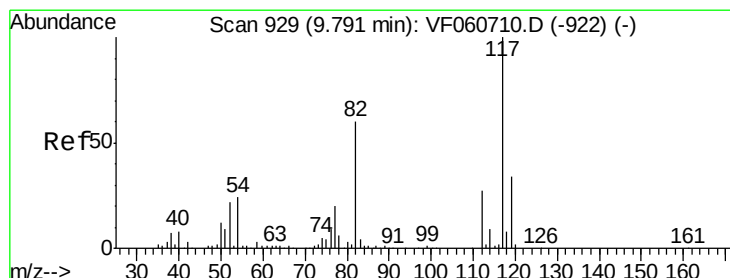
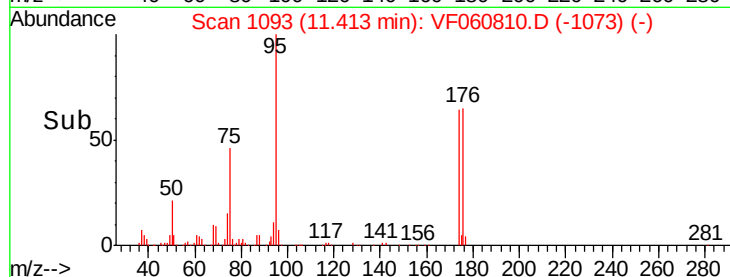
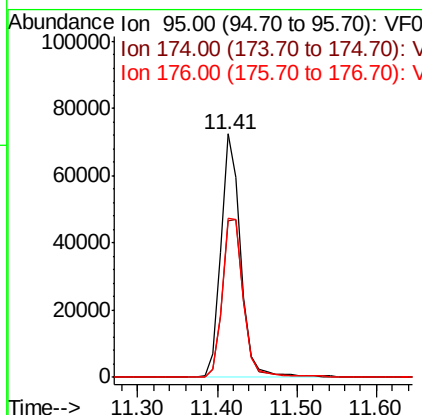
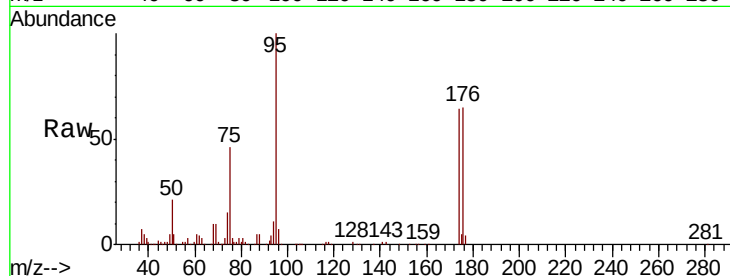




#62
4-Bromofluorobenzene
Concen: 41.281 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VF060810.D
Acq: 20 Nov 2018 18:41

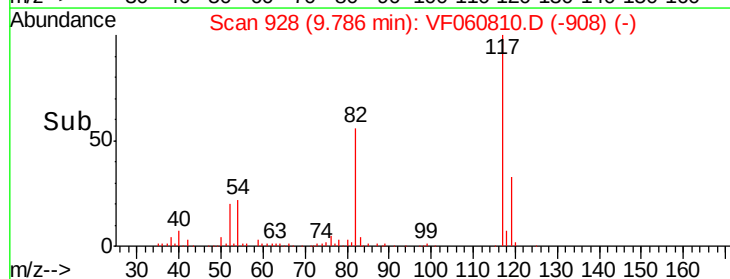
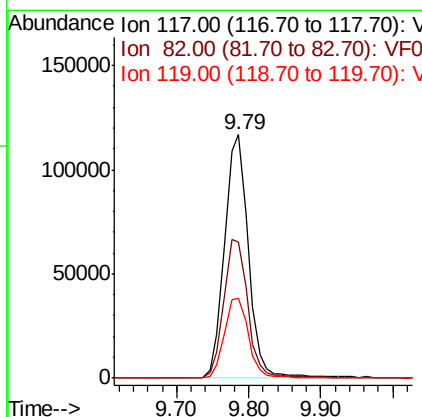
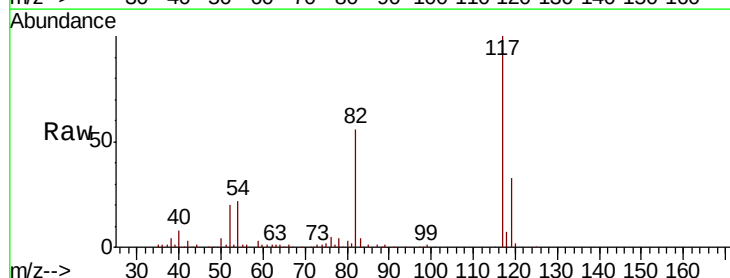
Instrument :
MSVOA_F
ClientSampled :

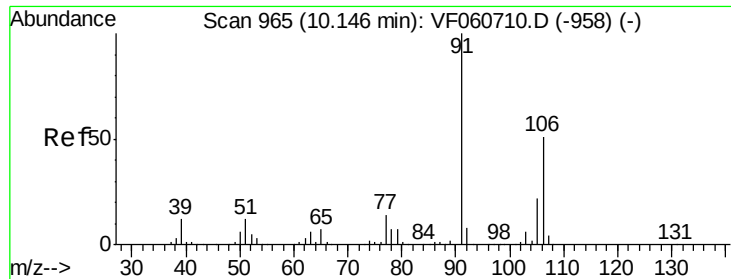
Tot Ion: 95 Resp: 127885
Ion Ratio Lower Upper
95 100
174 64.4 0.0 121.6
176 65.4 0.0 115.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF060810.D
Acq: 20 Nov 2018 18:41

Tgt Ion: 117 Resp: 269607
Ion Ratio Lower Upper
117 100
82 56.0 47.9 71.9
119 32.6 26.8 40.2

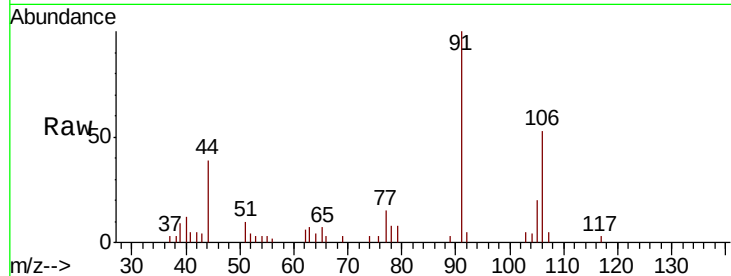




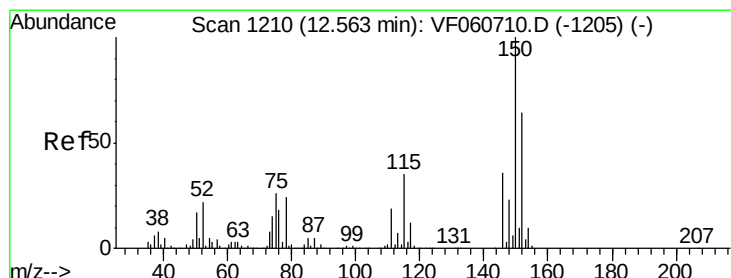
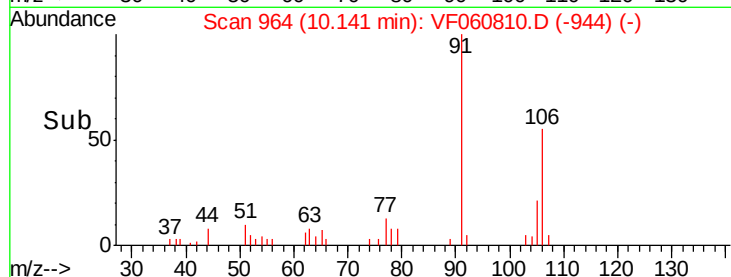
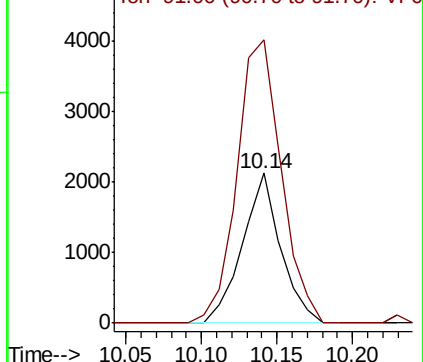
#68
m/p-Xvlenes
Concen: 1.024 ug/l
RT: 10.14 min Scan# 964
Delta R.T. -0.01 min
Lab File: VF060810.D
Acq: 20 Nov 2018 18:41

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:106 Resp: 3753
Ion Ratio Lower Upper
106 100
91 189.1 158.2 237.2

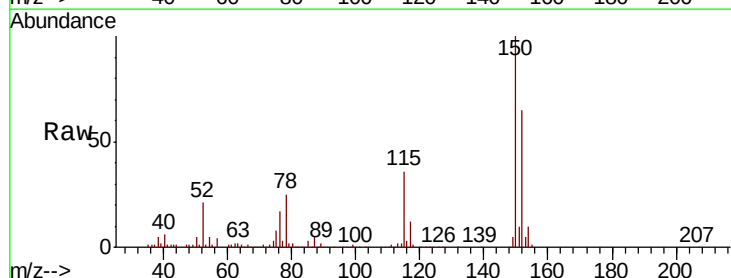


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

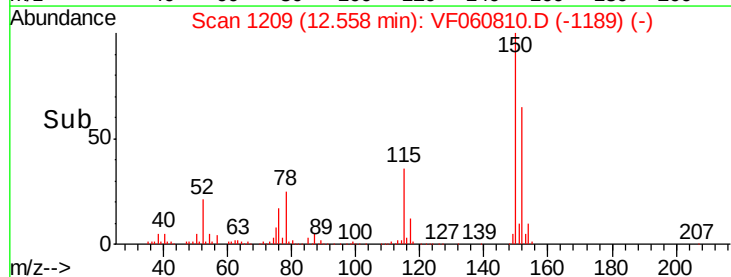
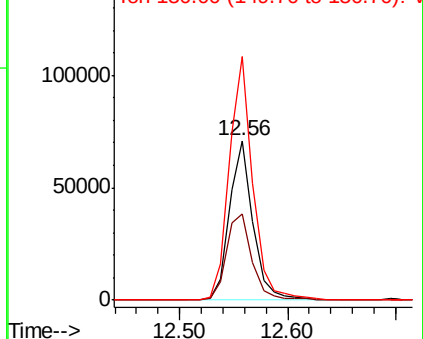


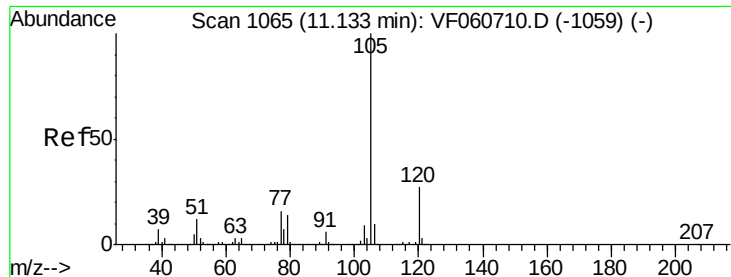
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF060810.D
Acq: 20 Nov 2018 18:41

Tgt Ion:152 Resp: 107850
Ion Ratio Lower Upper
152 100
115 54.4 27.9 83.7
150 152.9 0.0 316.4



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





#73

Isopropylbenzene

Concen: 12.683 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF060810.D

Acq: 20 Nov 2018 18:41

Instrument :

MSVOA_F

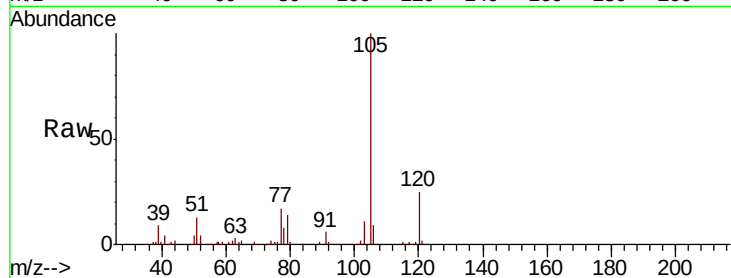
ClientSampleId :

Tot Ion:105 Resp: 110106

Ion Ratio Lower Upper

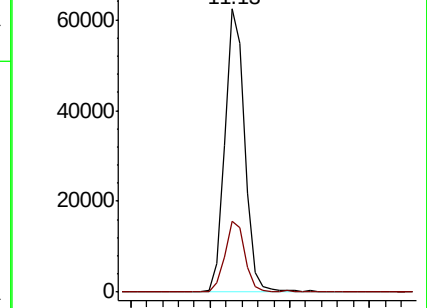
105 100

120 25.1 13.4 40.1

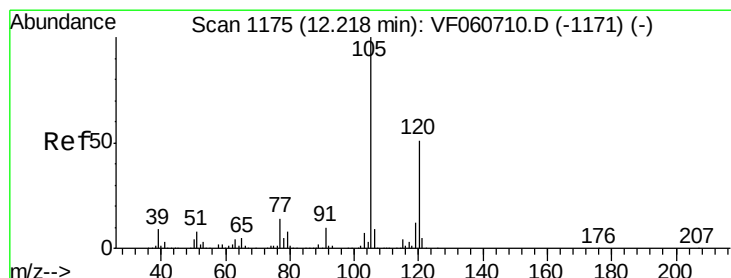
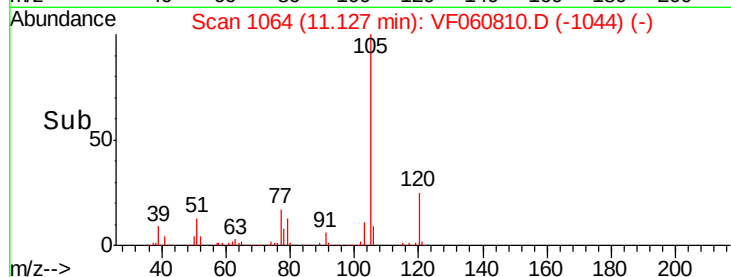


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#84

1,2,4-Trimethylbenzene

Concen: 1.456 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VF060810.D

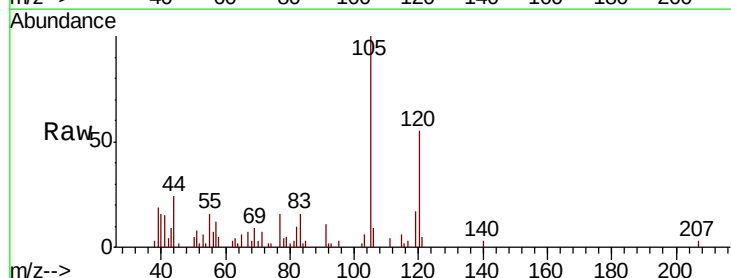
Acq: 20 Nov 2018 18:41

Tgt Ion:105 Resp: 10380

Ion Ratio Lower Upper

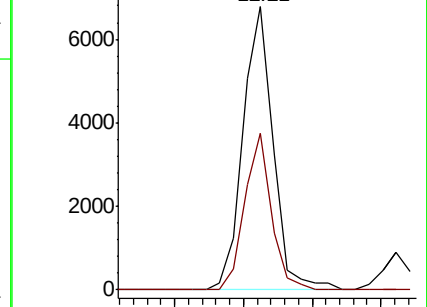
105 100

120 55.2 25.5 76.5

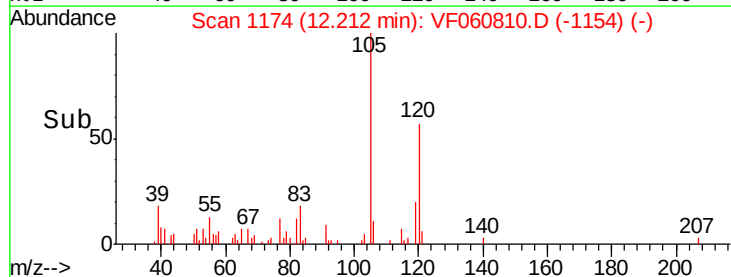


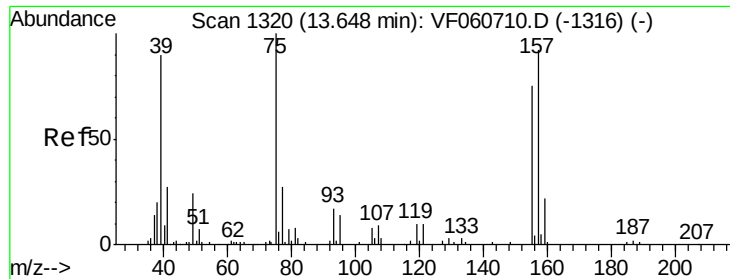
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->

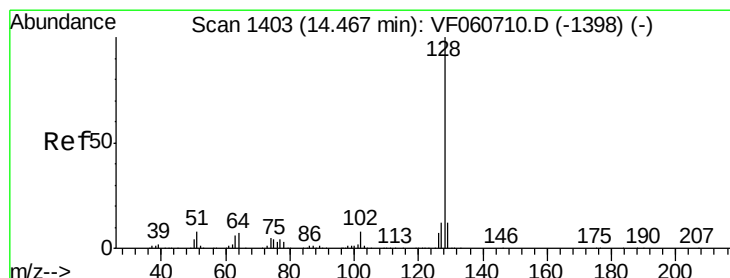
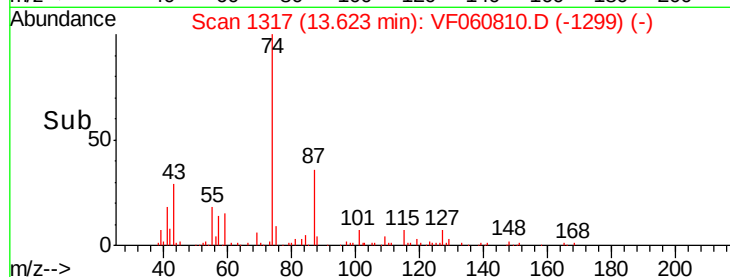
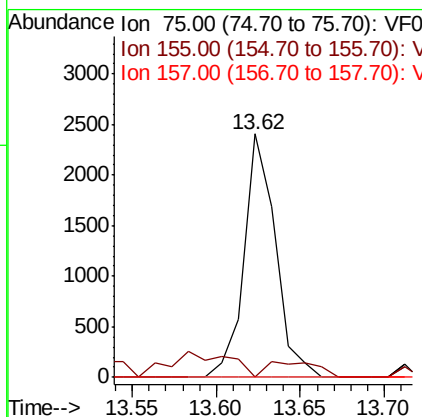
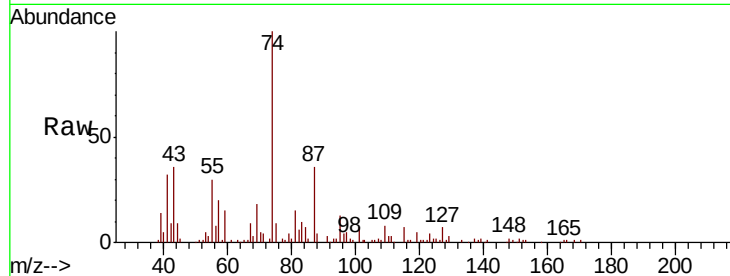




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 11.547 ug/l
 RT: 13.62 min Scan# 1317
 Delta R.T. -0.03 min
 Lab File: VF060810.D
 Acq: 20 Nov 2018 18:41

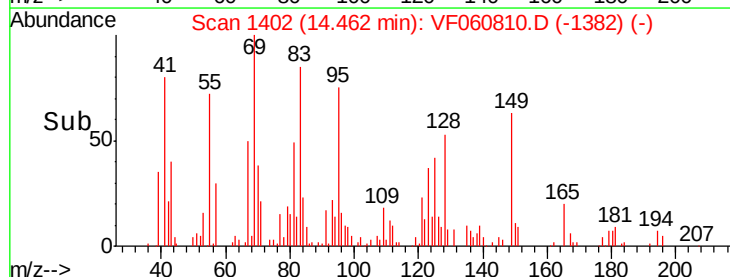
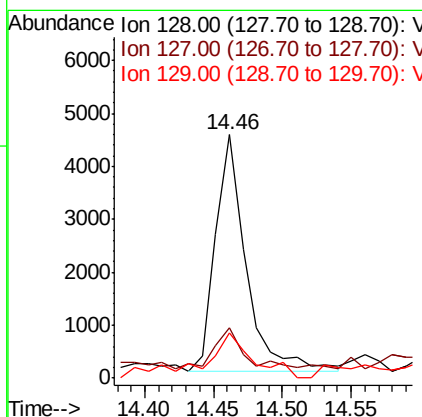
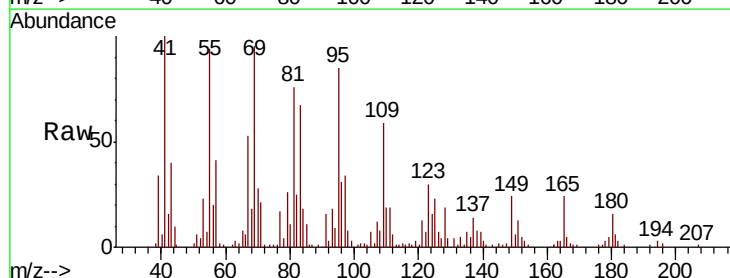
Instrument :
 MSVOA_F
 ClientSampleId :

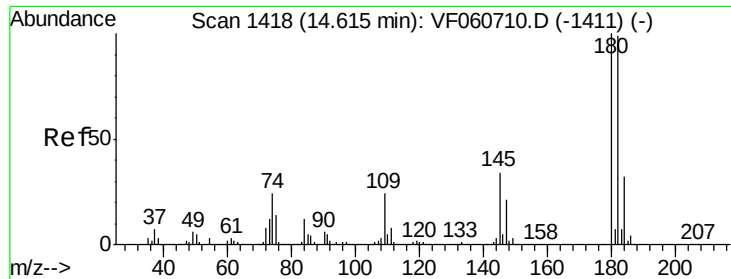
Tot Ion: 75 Resp: 3115
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.4 112.2#
 157 0.0 46.0 138.0#



#95
 Naphthalene
 Concen: 1.549 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. -0.01 min
 Lab File: VF060810.D
 Acq: 20 Nov 2018 18:41

Tgt Ion:128 Resp: 6879
 Ion Ratio Lower Upper
 128 100
 127 20.7 9.8 14.6#
 129 18.6 9.3 13.9#





#96
 1,2,3-Trichlorobenzene
 Concen: 6.667 ug/l
 RT: 14.64 min Scan# 1420
 Delta R.T. 0.02 min
 Lab File: VF060810.D
 Acq: 20 Nov 2018 18:41

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	4.0	49.6	149.0#
145	2.8	16.9	50.7#

