

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100418\
 Data File : VF060443.D
 Acq On : 4 Oct 2018 18:39
 Operator : VA/AP
 Sample : J5198-09RE
 Misc : 6.00/5mL/MSVOA F/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Oct 05 01:11:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	282605	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.75	114	461547	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.91	117	399985	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	198020	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	169831	38.40	ug/l	0.02
Spiked Amount 50.000			Recovery	=	76.80%	
35) Dibromofluoromethane	4.28	113	164169	37.86	ug/l	0.02
Spiked Amount 50.000			Recovery	=	75.72%	
50) Toluene-d8	7.70	98	301423	28.23	ug/l	0.02
Spiked Amount 50.000			Recovery	=	56.46%	
62) 4-Bromofluorobenzene	11.51	95	153464	31.47	ug/l	0.02
Spiked Amount 50.000			Recovery	=	62.94%	

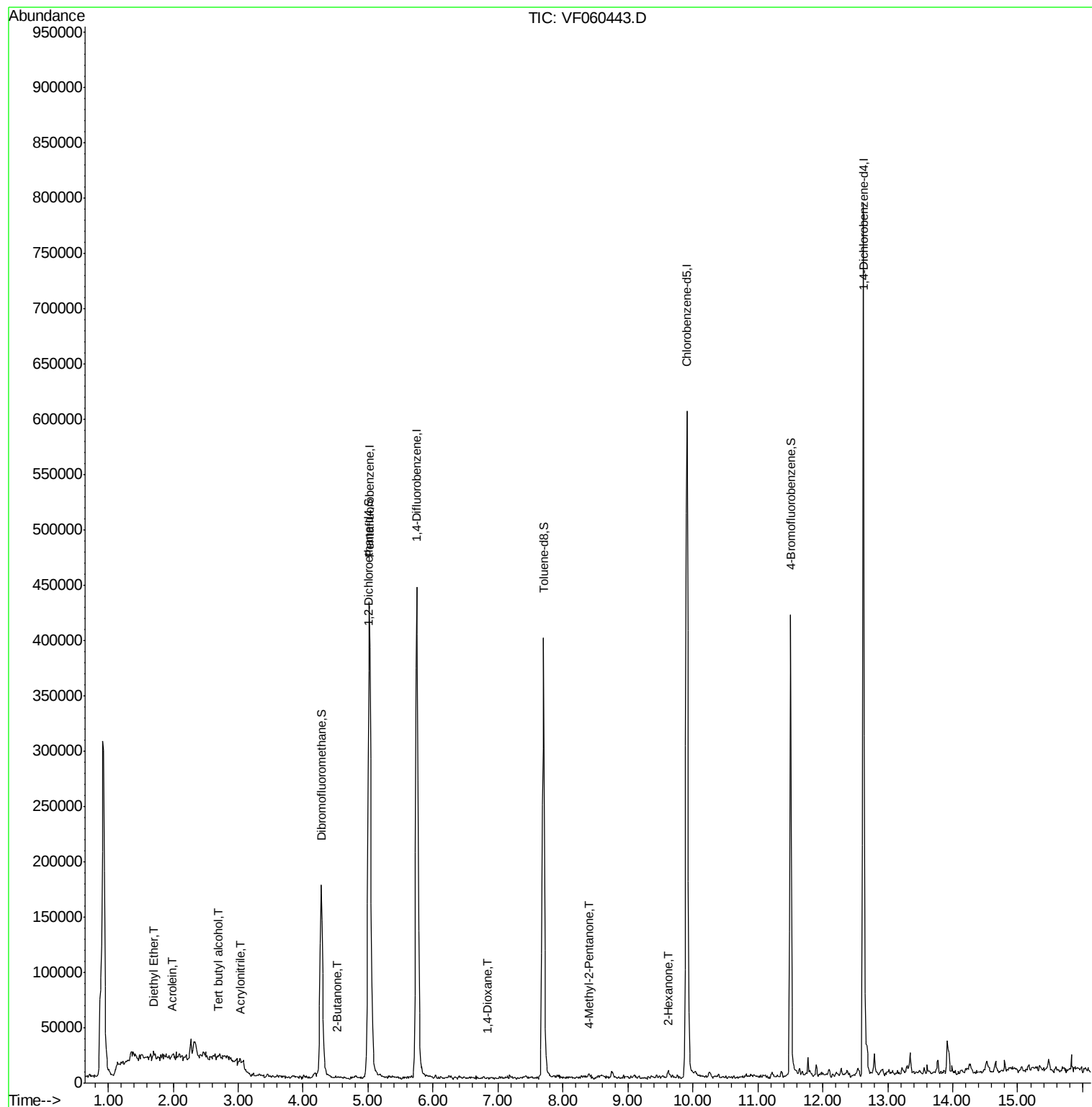
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.98	85	504	Below Cal	#	43
8) Diethyl Ether	1.71	74	2704	2.130	ug/l	45
11) Tert butyl alcohol	2.68	59	872	3.260	ug/l #	1
13) Acrolein	1.97	56	612	2.845	ug/l	85
15) Acrylonitrile	3.04	53	1603	3.497	ug/l #	64
16) Acetone	2.34	43	6689	Below Cal		96
18) Methyl Acetate	2.42	43	895	Below Cal	#	57
20) Methylene Chloride	2.27	84	5221	Below Cal	#	85
25) 2-Butanone	4.52	43	2168	1.893	ug/l #	60
29) Tetrahydrofuran	4.20	42	340	Below Cal	#	34
49) 1,4-Dioxane	6.85	88	60	3.681	ug/l #	18
51) 4-Methyl-2-Pentanone	8.40	43	3184	1.699	ug/l	92
59) 2-Hexanone	9.62	43	4955	3.604	ug/l	91

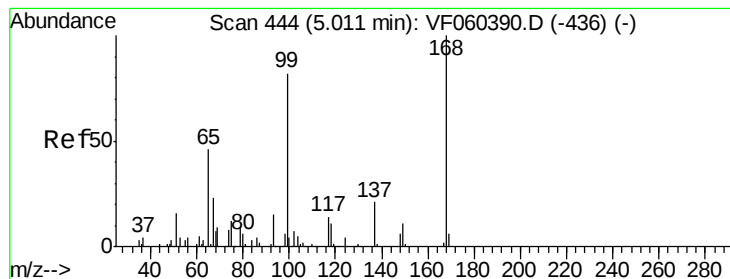
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 02 11:42:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. 0.02 min

Lab File: VF060443.D

Acq: 4 Oct 2018 18:39

Instrument :

MSVOA_F

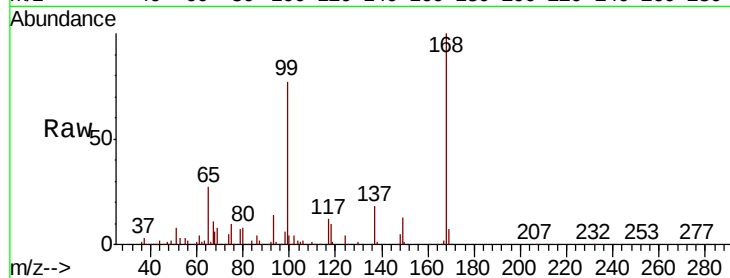
ClientSampleId :

Tot Ion:168 Resp: 282605

Ion Ratio Lower Upper

168 100

99 77.2 65.3 97.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

100000

80000

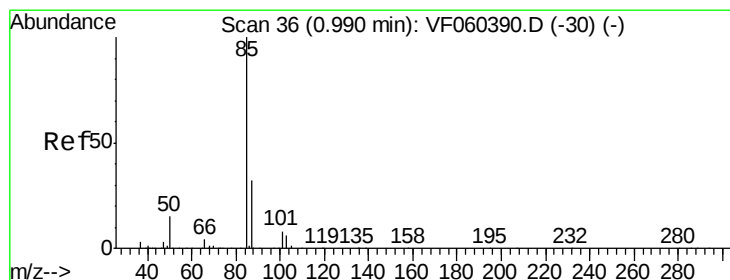
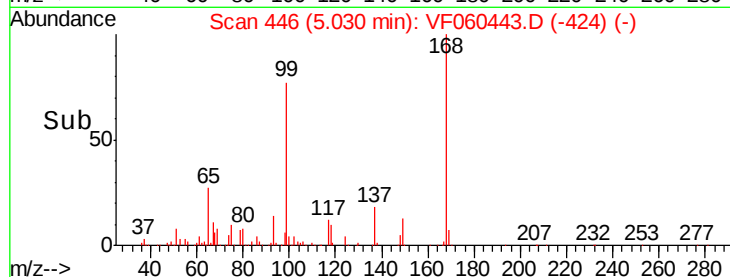
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 35

Delta R.T. -0.01 min

Lab File: VF060443.D

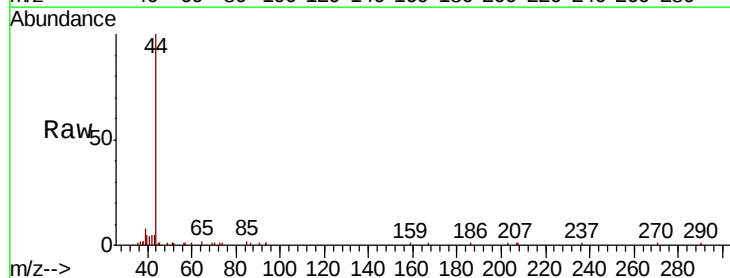
Acq: 4 Oct 2018 18:39

Tgt Ion: 85 Resp: 504

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.6#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

300

250

200

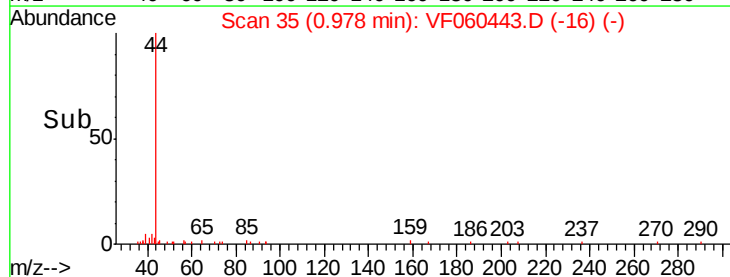
150

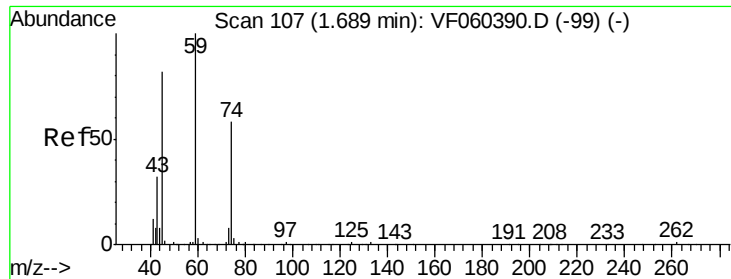
100

50

0

Time-->





#8

Diethyl Ether

Concen: 2.130 ug/l

RT: 1.71 min Scan# 109

Delta R.T. 0.02 min

Lab File: VF060443.D

Acq: 4 Oct 2018 18:39

Instrument :

MSVOA_F

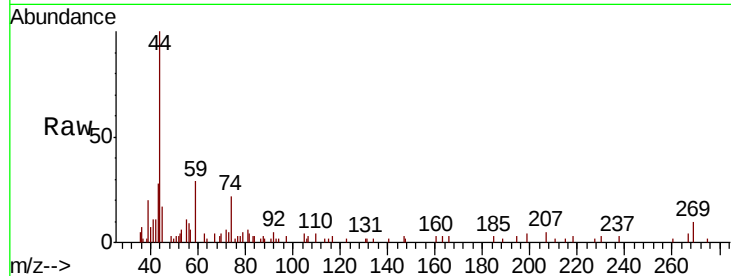
ClientSampleId :

Tot Ion: 74 Resp: 2704

Ion Ratio Lower Upper

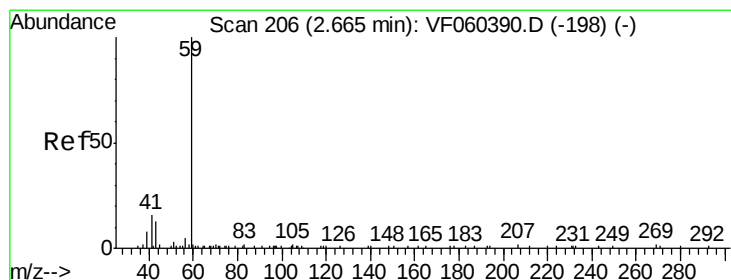
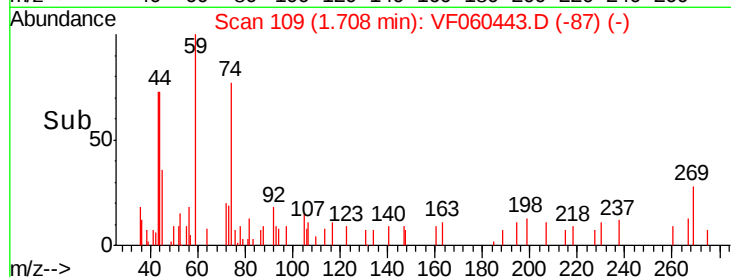
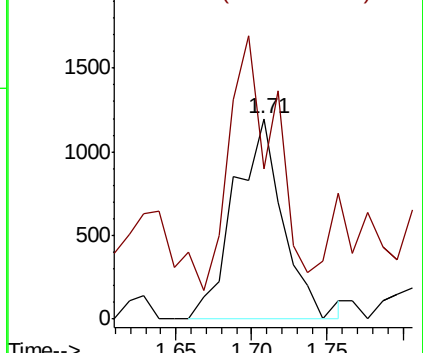
74 100

45 74.9 71.3 213.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 3.260 ug/l

RT: 2.68 min Scan# 208

Delta R.T. 0.02 min

Lab File: VF060443.D

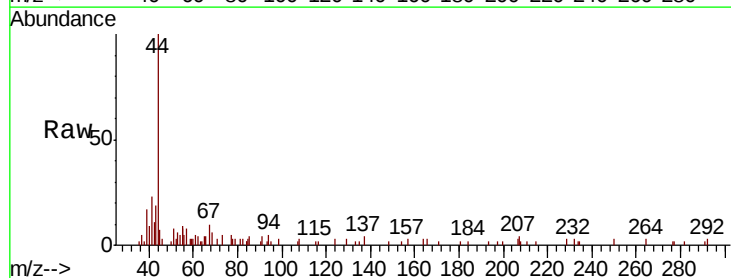
Acq: 4 Oct 2018 18:39

Tgt Ion: 59 Resp: 872

Ion Ratio Lower Upper

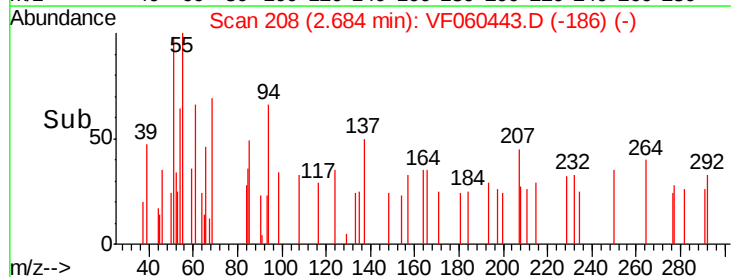
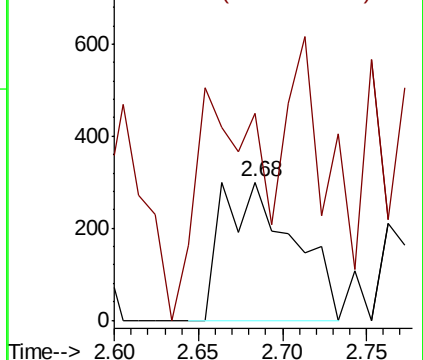
59 100

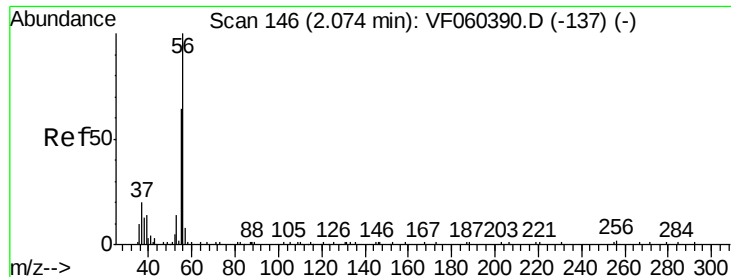
57 150.0 6.5 9.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

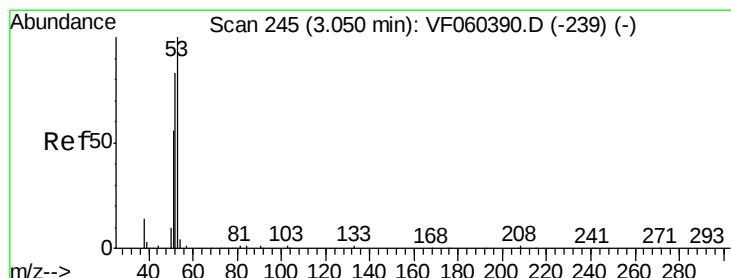
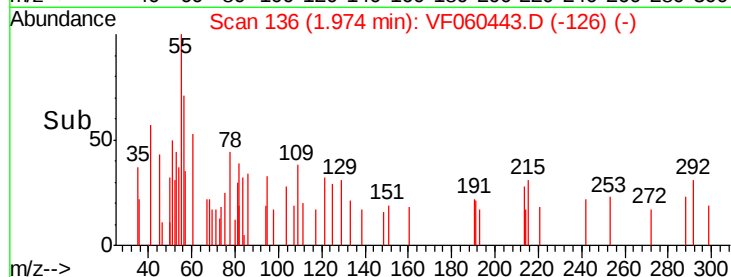
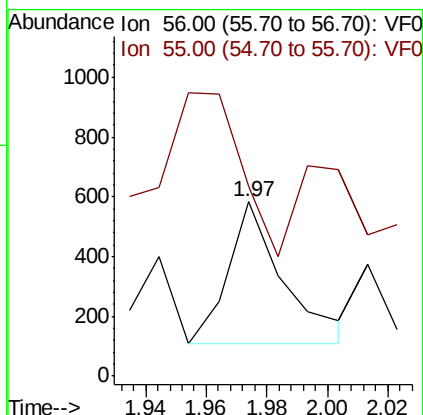
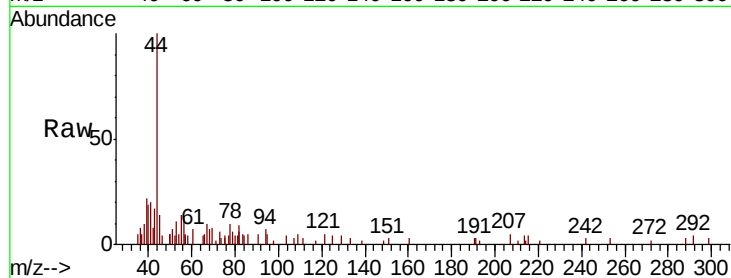




#13
Acrolein
Concen: 2.845 ug/l
RT: 1.97 min Scan# 136
Delta R.T. -0.10 min
Lab File: VF060443.D
Acq: 4 Oct 2018 18:39

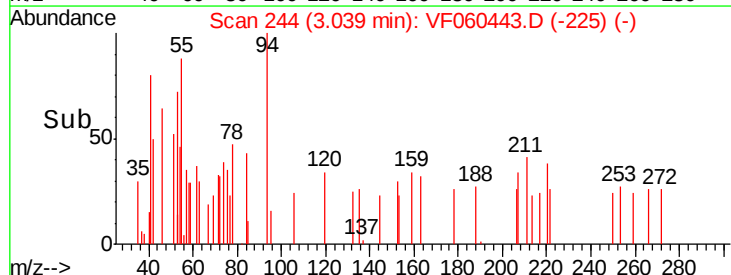
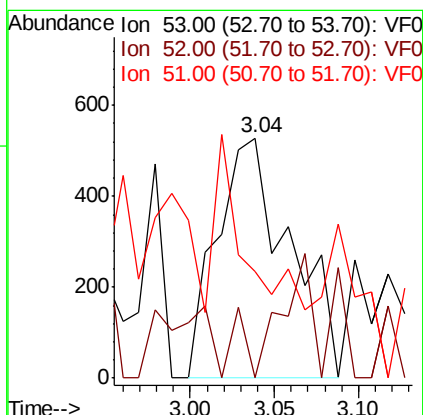
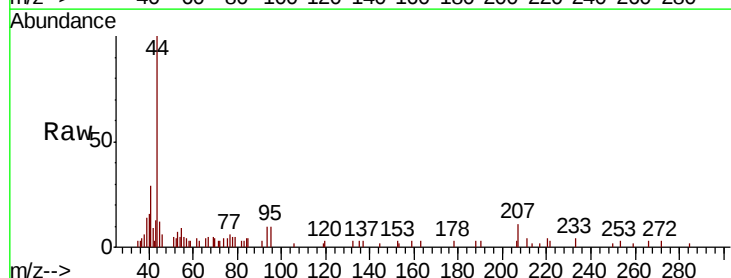
Instrument :
MSVOA_F
ClientSampled :

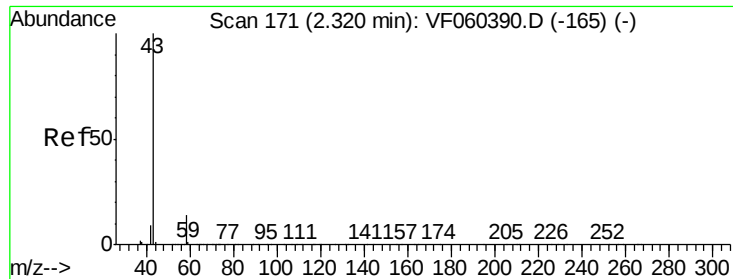
Tot Ion: 56 Resp: 612
Ion Ratio Lower Upper
56 100
55 79.1 53.9 80.9



#15
Acrylonitrile
Concen: 3.497 ug/l
RT: 3.04 min Scan# 244
Delta R.T. -0.01 min
Lab File: VF060443.D
Acq: 4 Oct 2018 18:39

Tgt Ion: 53 Resp: 1603
Ion Ratio Lower Upper
53 100
52 37.6 66.0 99.0#
51 44.6 45.6 68.4#

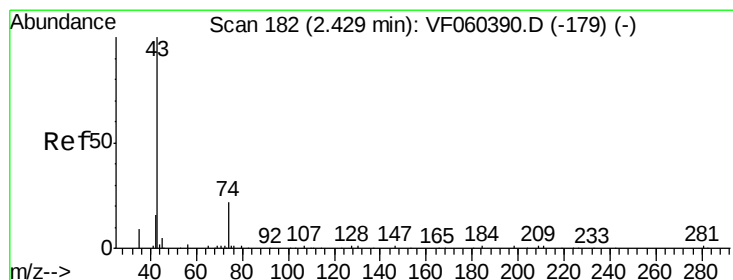
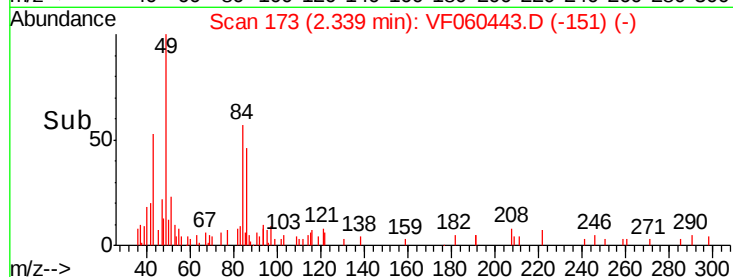
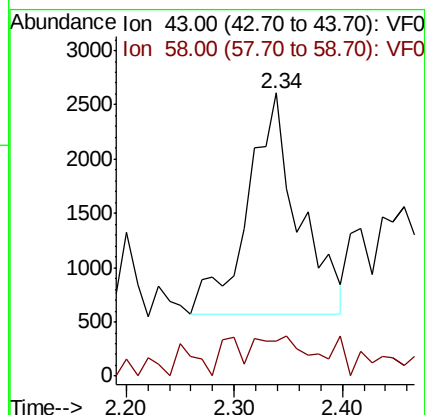
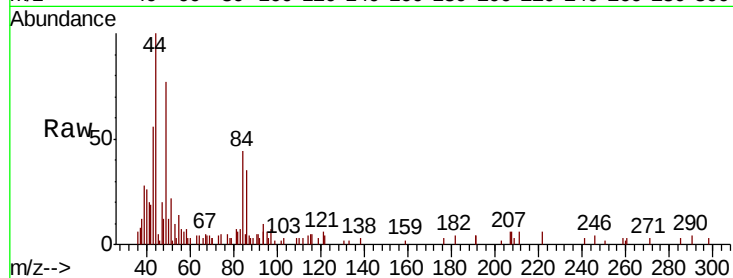




#16
Acetone
Concen: Below Cal
RT: 2.34 min Scan# 173
Delta R.T. 0.02 min
Lab File: VF060443.D
Acq: 4 Oct 2018 18:39

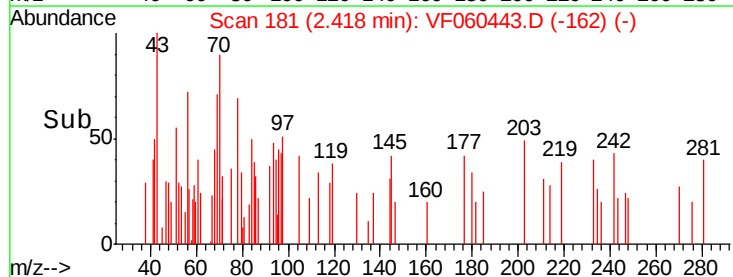
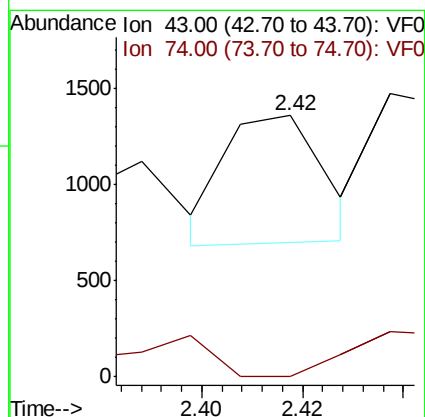
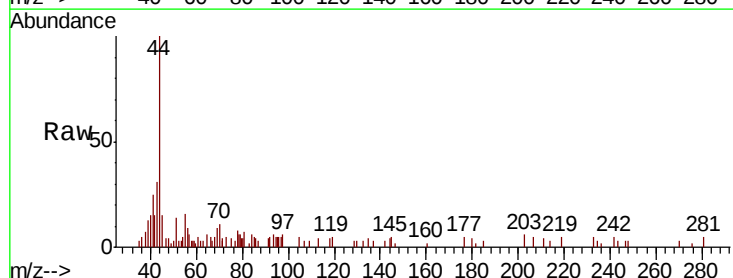
Instrument :
MSVOA_F
ClientSampled :

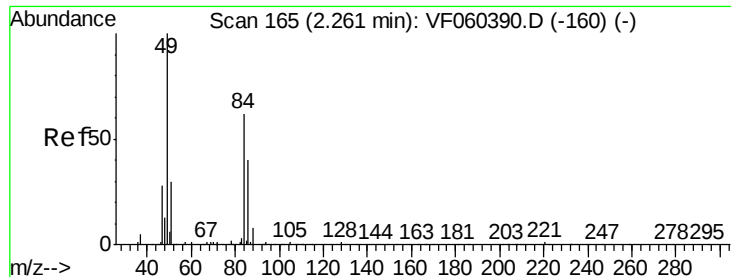
Tot Ion: 43 Resp: 6689
Ion Ratio Lower Upper
43 100
58 12.6 11.2 16.8



#18
Methyl Acetate
Concen: Below Cal
RT: 2.42 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF060443.D
Acq: 4 Oct 2018 18:39

Tgt Ion: 43 Resp: 895
Ion Ratio Lower Upper
43 100
74 0.0 15.8 23.8#

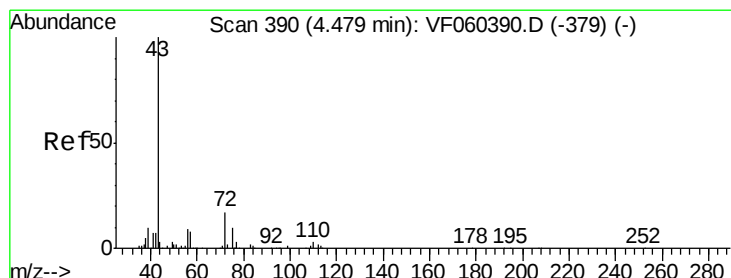
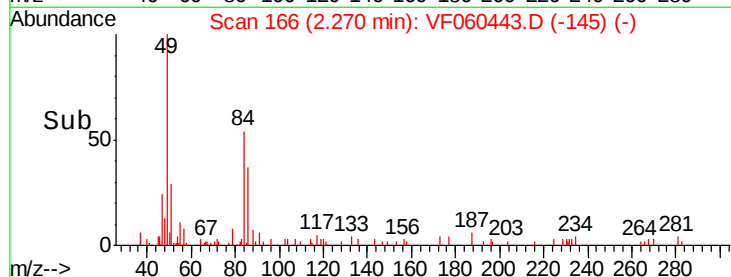
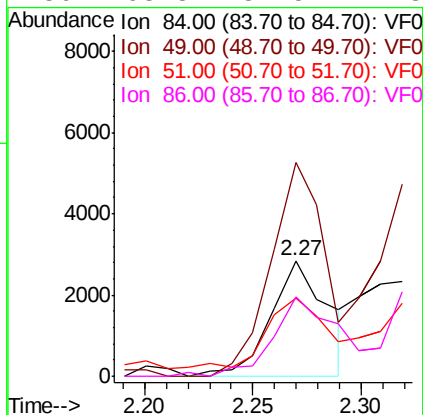
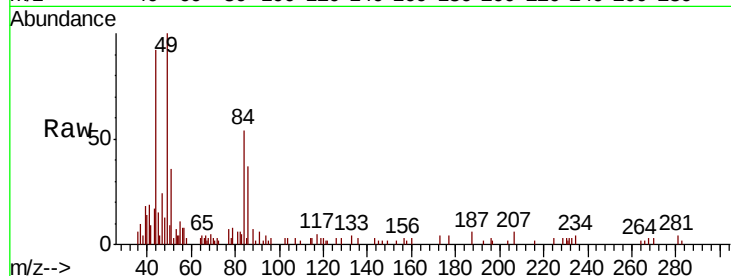




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF060443.D
Acq: 4 Oct 2018 18:39

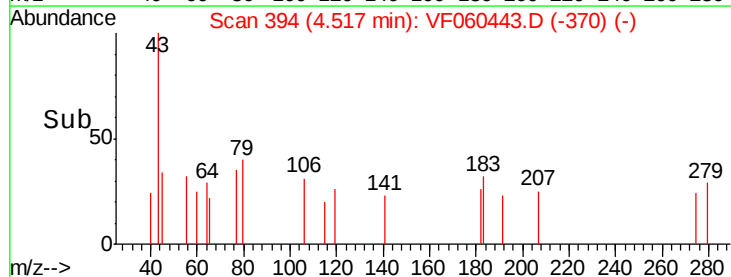
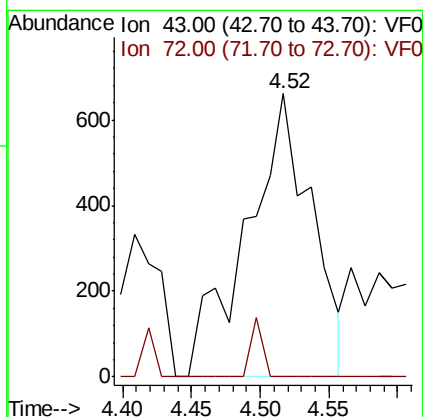
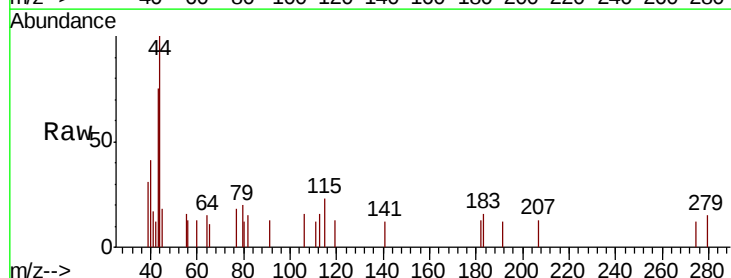
Instrument :
MSVOA_F
ClientSampleId :

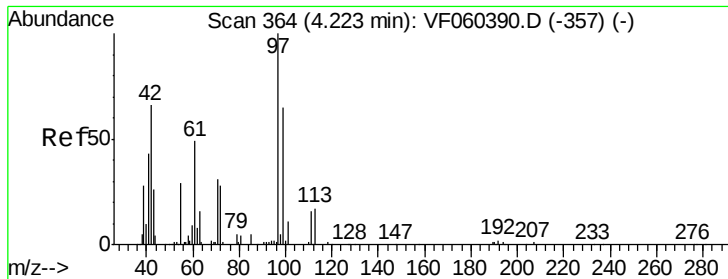
Tot Ion: 84 Resp: 5221
Ion Ratio Lower Upper
84 100
49 185.3 130.2 195.2
51 67.4 41.0 61.6#
86 68.8 51.5 77.3



#25
2-Butanone
Concen: 1.893 ug/l
RT: 4.52 min Scan# 394
Delta R.T. 0.04 min
Lab File: VF060443.D
Acq: 4 Oct 2018 18:39

Tgt Ion: 43 Resp: 2168
Ion Ratio Lower Upper
43 100
72 0.0 14.1 21.1#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.20 min Scan# 362

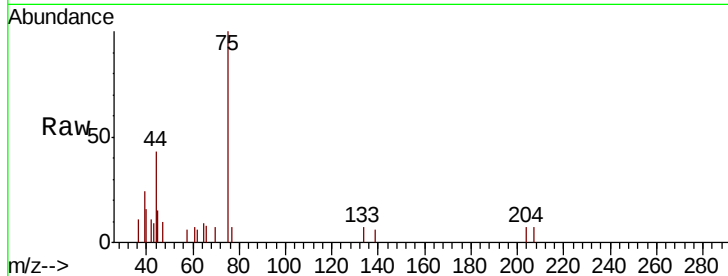
Delta R.T. -0.02 min

Lab File: VF060443.D

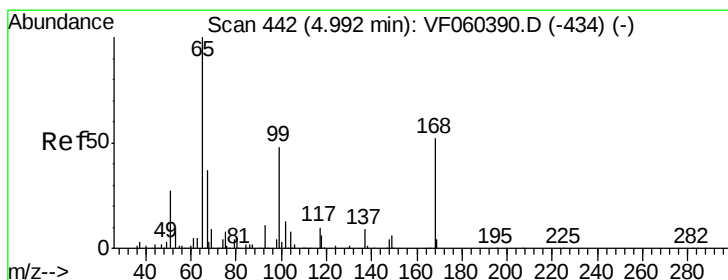
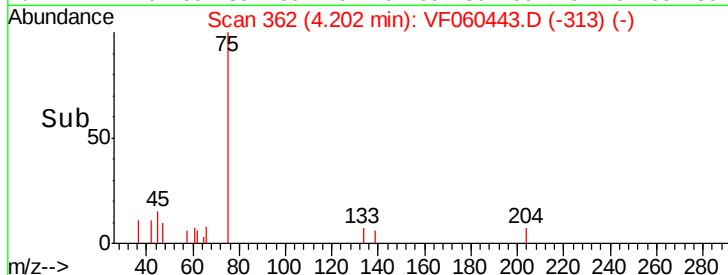
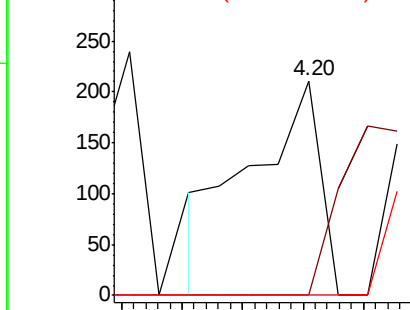
Acq: 4 Oct 2018 18:39

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	42	Resp:	340
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.6	50.4#
71	0.0	32.7	49.1#



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: 38.405 ug/l

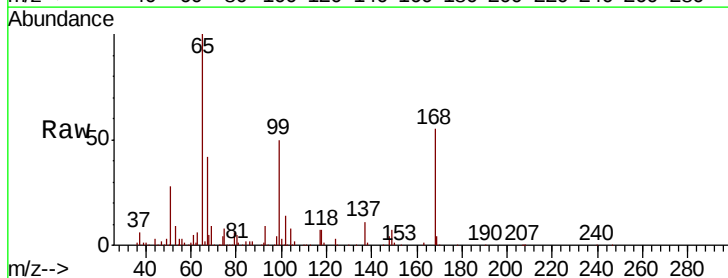
RT: 5.00 min Scan# 443

Delta R.T. 0.01 min

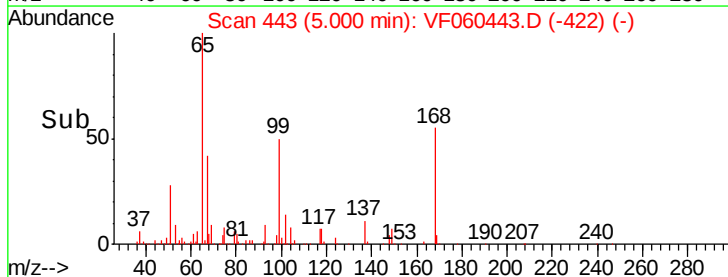
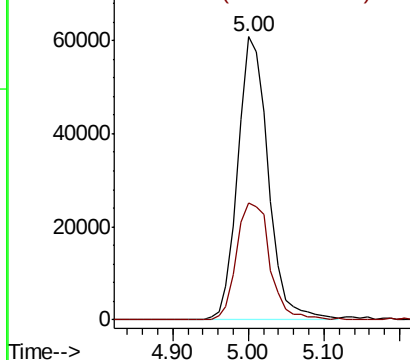
Lab File: VF060443.D

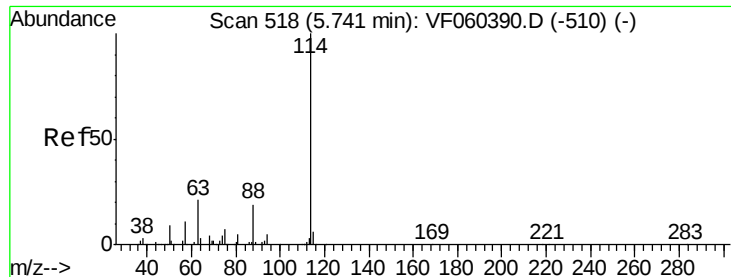
Acq: 4 Oct 2018 18:39

Tgt Ion:	65	Resp:	169831
Ion	Ratio	Lower	Upper
65	100		
67	41.5	0.0	89.4



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: 5.75 min Scan# 519

Delta R.T. 0.01 min

Lab File: VF060443.D

Acq: 4 Oct 2018 18:39

Instrument :

MSVOA_F

ClientSampleId :

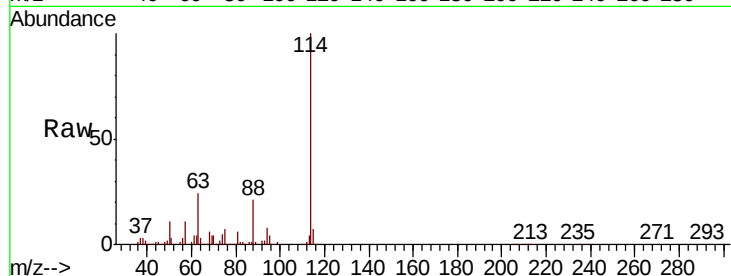
Tot Ion:114 Resp: 461547

Ion Ratio Lower Upper

114 100

63 24.4 0.0 42.2

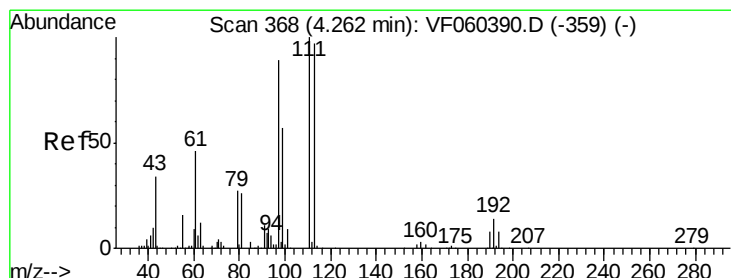
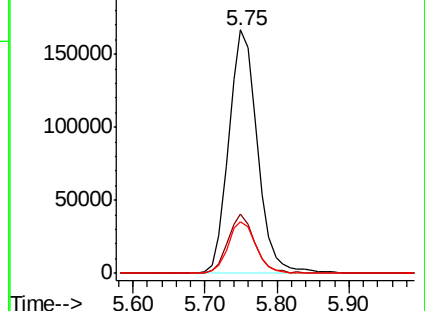
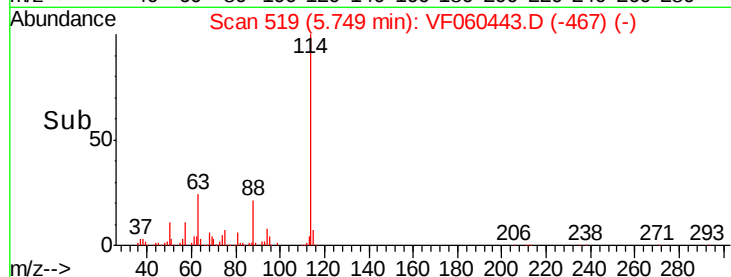
88 21.4 0.0 38.8



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: 37.862 ug/l

RT: 4.28 min Scan# 370

Delta R.T. 0.02 min

Lab File: VF060443.D

Acq: 4 Oct 2018 18:39

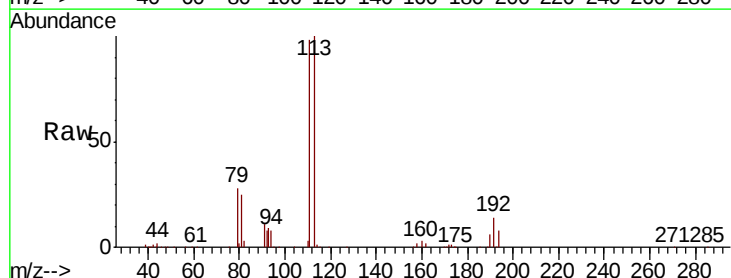
Tgt Ion:113 Resp: 164169

Ion Ratio Lower Upper

113 100

111 98.0 82.3 123.5

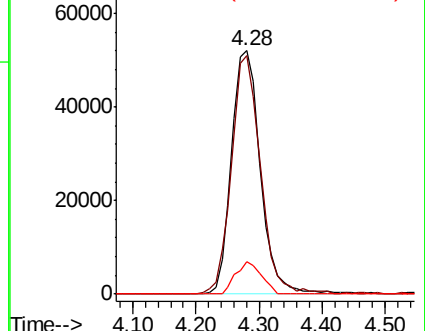
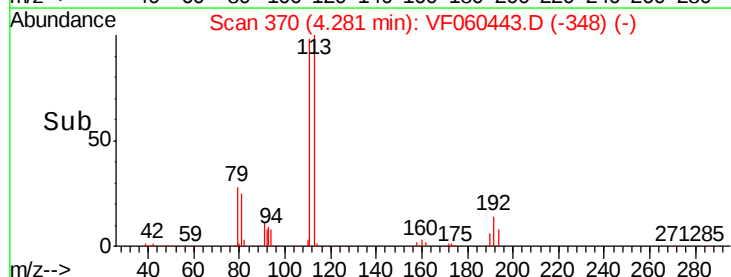
192 13.6 11.8 17.6

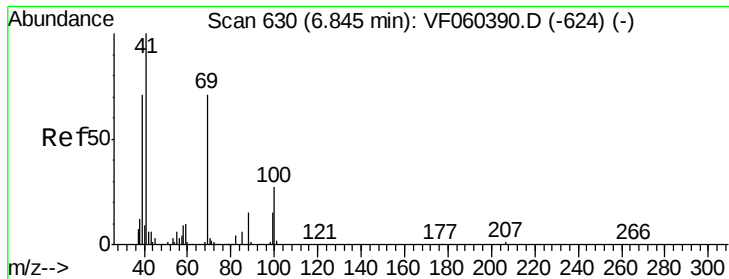


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 3.681 ug/l

RT: 6.85 min Scan# 631

Delta R.T. 0.01 min

Lab File: VF060443.D

Acq: 4 Oct 2018 18:39

Instrument :
MSVOA_F
ClientSampled :

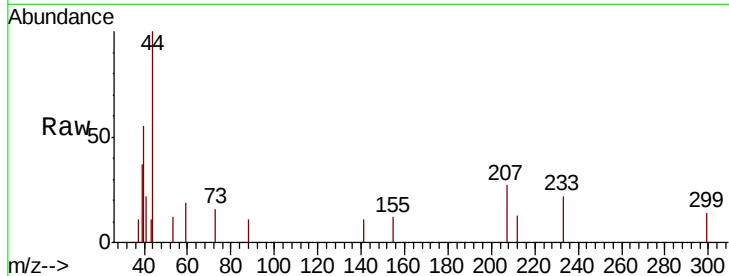
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

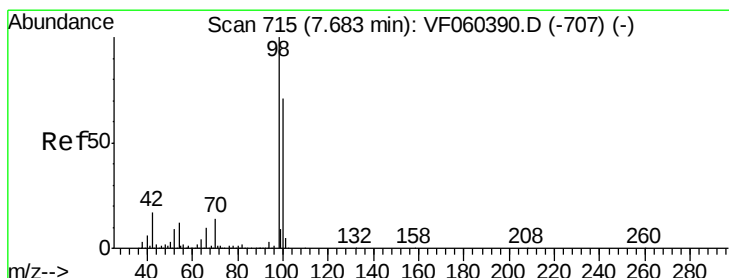
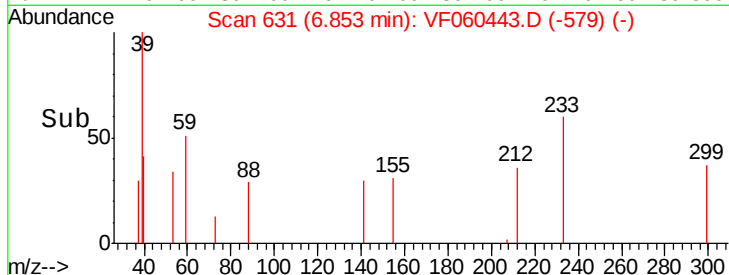
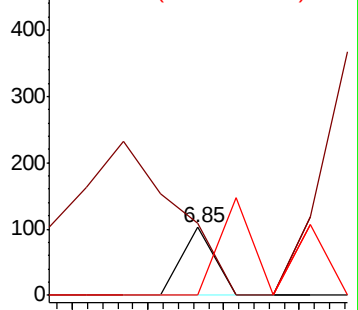
88 100

43 105.9 38.3 57.5#

58 0.0 47.4 71.2#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 28.227 ug/l

RT: 7.70 min Scan# 717

Delta R.T. 0.02 min

Lab File: VF060443.D

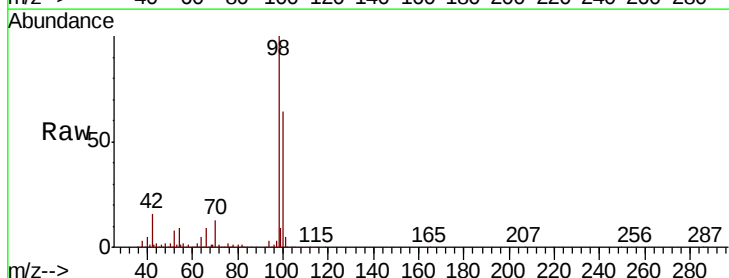
Acq: 4 Oct 2018 18:39

Tgt Ion: 98 Resp: 301423

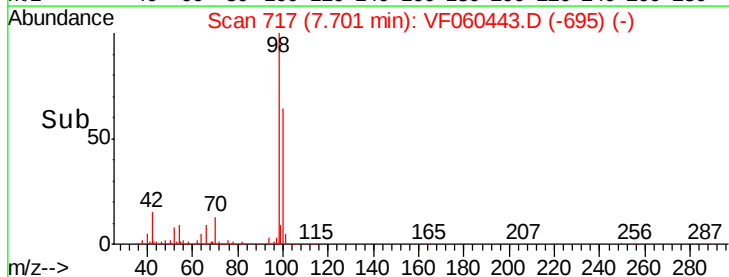
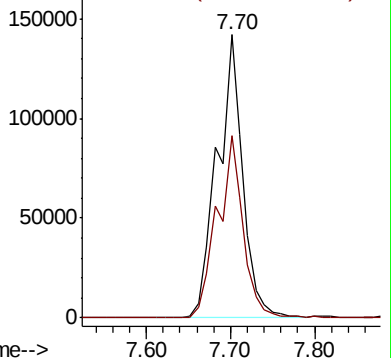
Ion Ratio Lower Upper

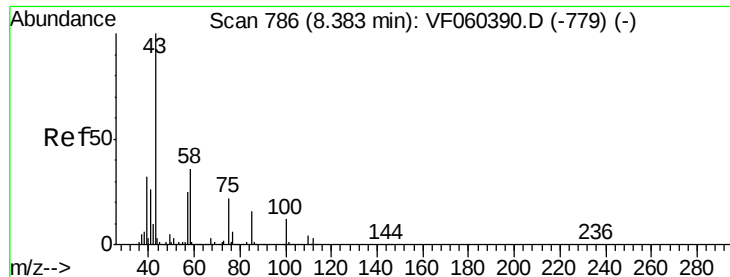
98 100

100 64.4 56.5 84.7



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1.699 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.02 min

Lab File: VF060443.D

Acq: 4 Oct 2018 18:39

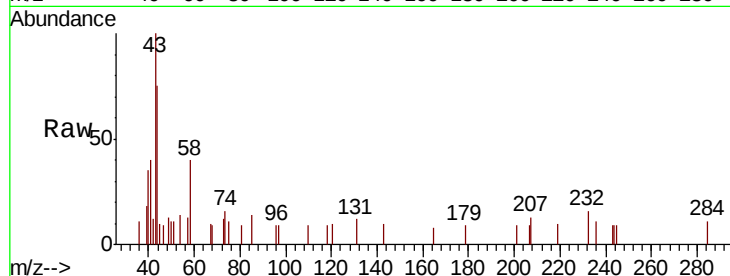
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 3184

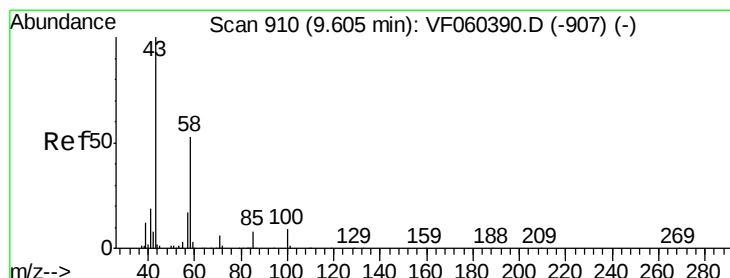
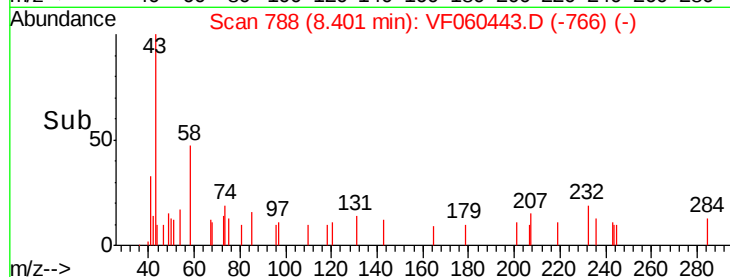
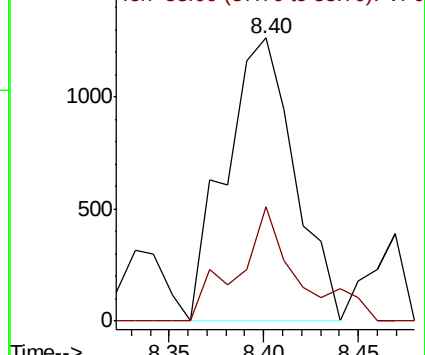
Ion Ratio Lower Upper

43 100

58 40.3 28.5 42.7



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 3.604 ug/l

RT: 9.62 min Scan# 912

Delta R.T. 0.02 min

Lab File: VF060443.D

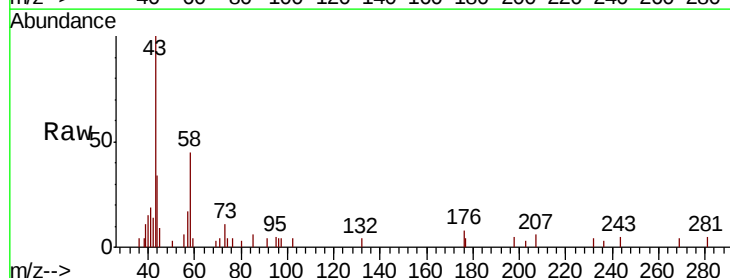
Acq: 4 Oct 2018 18:39

Tgt Ion: 43 Resp: 4955

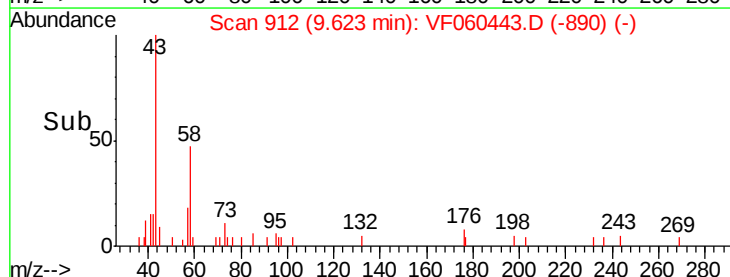
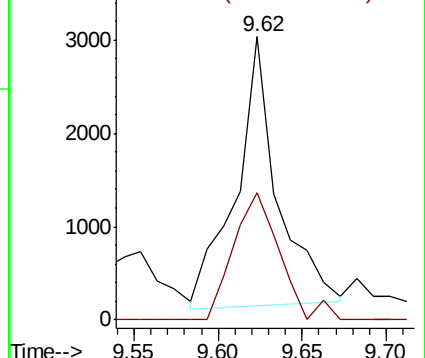
Ion Ratio Lower Upper

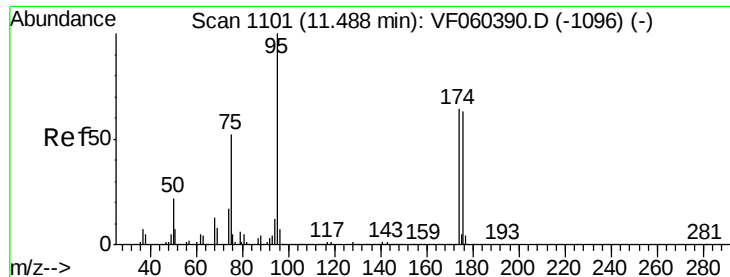
43 100

58 44.9 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

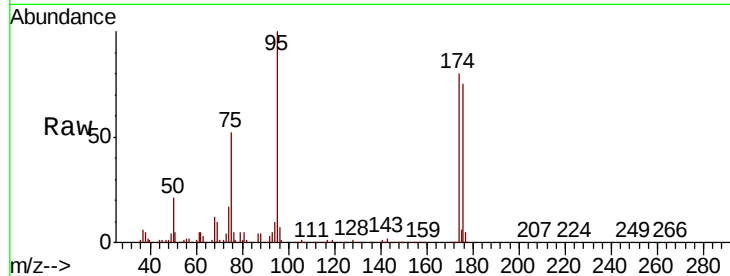




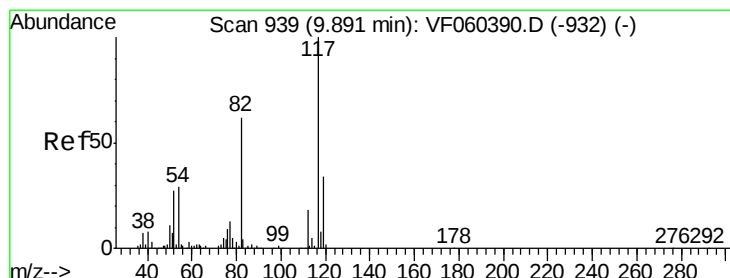
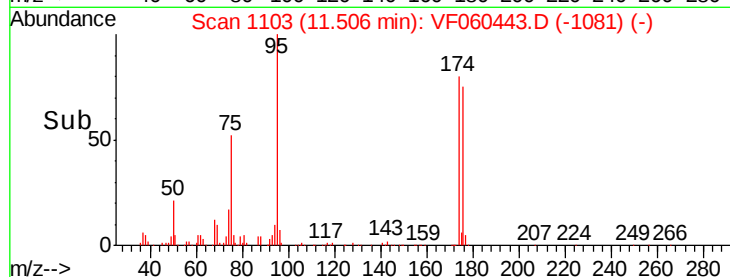
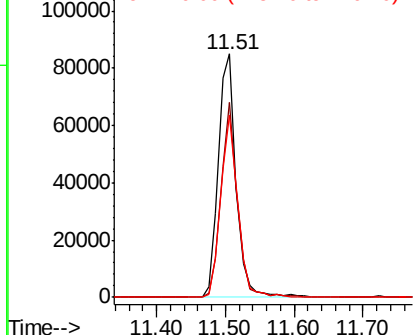
#62
4-Bromofluorobenzene
Concen: 31.475 ug/l
RT: 11.51 min Scan# 1103
Delta R.T. 0.02 min
Lab File: VF060443.D
Acq: 4 Oct 2018 18:39

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 95 Resp: 153464
Ion Ratio Lower Upper
95 100
174 80.3 0.0 129.0
176 74.9 0.0 125.6

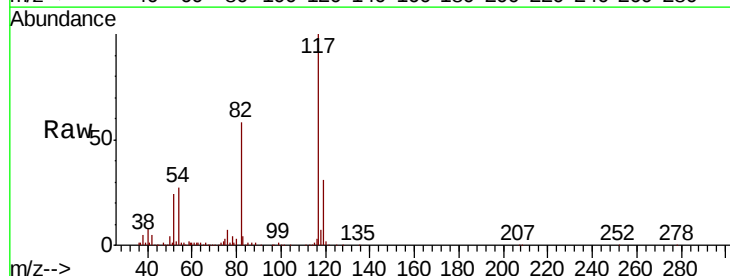


Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

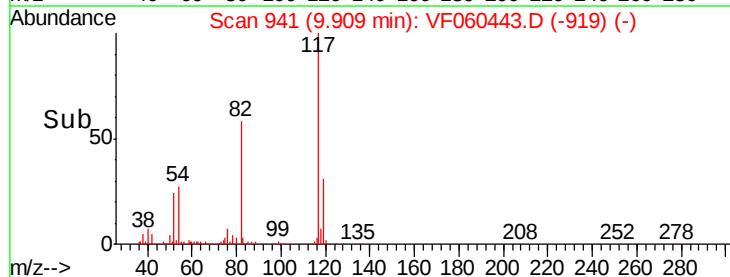
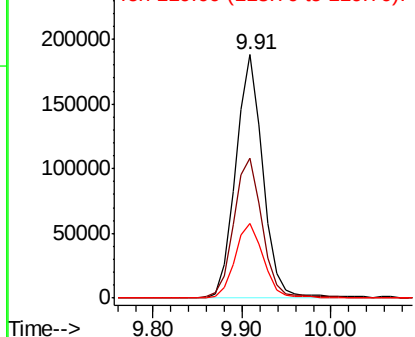


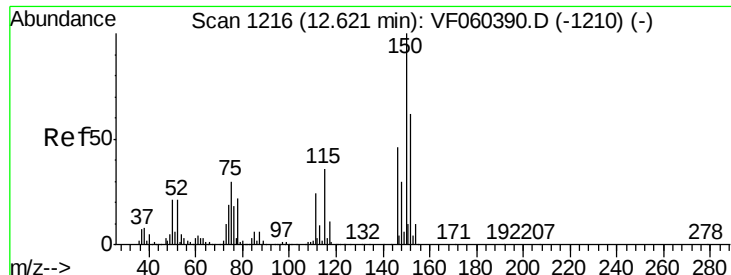
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. 0.02 min
Lab File: VF060443.D
Acq: 4 Oct 2018 18:39

Tgt Ion: 117 Resp: 399985
Ion Ratio Lower Upper
117 100
82 57.7 49.5 74.3
119 30.9 27.0 40.6



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.63 min Scan# 1217
 Delta R.T. 0.01 min
 Lab File: VF060443.D
 Acq: 4 Oct 2018 18:39

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	61.7	28.6	85.8
150	162.7	0.0	324.6

