

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100818\
 Data File : VF060482.D
 Acq On : 8 Oct 2018 14:08
 Operator : VA/AP
 Sample : J5084-08RE
 Misc : 5.99/5mL/MSVOA F/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Oct 09 01:29:59 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	5.00	168	275704	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.73	114	463668	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.88	117	372583	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	185348	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.98	65	170610	39.55	ug/l	-0.01
Spiked Amount			Recovery	=	79.10%	
35) Dibromofluoromethane	4.25	113	182413	41.88	ug/l	-0.01
Spiked Amount			Recovery	=	83.76%	
50) Toluene-d8	7.67	98	330720	30.83	ug/l	-0.01
Spiked Amount			Recovery	=	61.66%	
62) 4-Bromofluorobenzene	11.48	95	150001	30.62	ug/l	0.00
Spiked Amount			Recovery	=	61.24%	

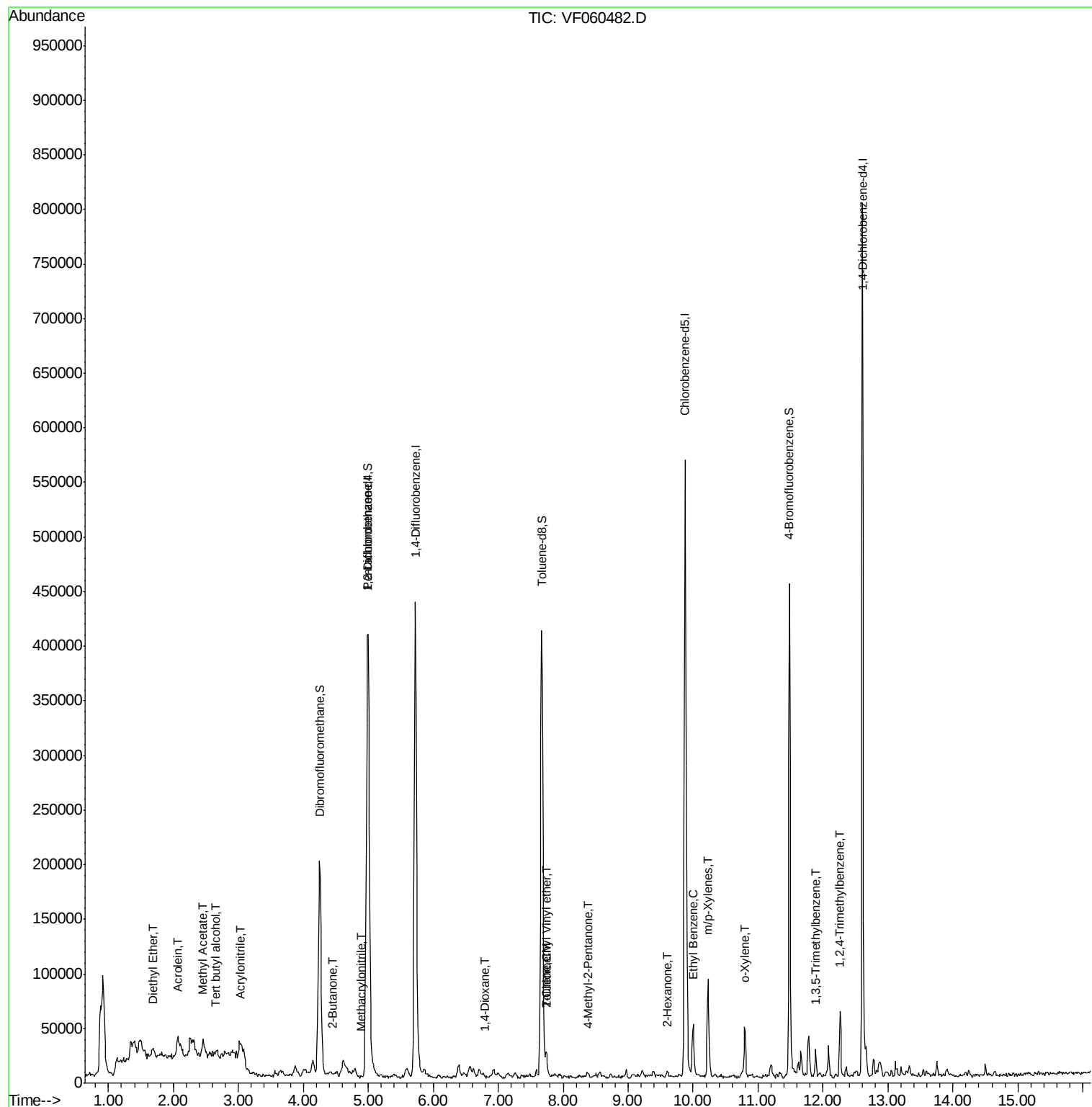
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	491	Below Cal	#	43
8) Diethyl Ether	1.69	74	1811	1.462	ug/l	68
11) Tert butyl alcohol	2.64	59	743	2.847	ug/l #	1
13) Acrolein	2.07	56	1866	8.892	ug/l #	1
15) Acrylonitrile	3.05	53	3013	6.738	ug/l #	59
16) Acetone	2.33	43	2632	Below Cal	#	75
18) Methyl Acetate	2.46	43	6922	2.583	ug/l #	65
20) Methylene Chloride	2.26	84	4818	Below Cal	#	68
25) 2-Butanone	4.45	43	1731	1.550	ug/l #	60
29) Tetrahydrofuran	4.23	42	1126	Below Cal		94
41) Methacrylonitrile	4.90	41	1247	1.074	ug/l #	33
49) 1,4-Dioxane	6.80	88	64	3.909	ug/l #	1
51) 4-Methyl-2-Pentanone	8.39	43	4101	2.178	ug/l #	71
52) Toluene	7.75	92	10047	1.303	ug/l	81
58) 2-Chloroethyl Vinyl ether	7.74	63	2240	7.899	ug/l	100
59) 2-Hexanone	9.59	43	5198	3.763	ug/l	97
67) Ethyl Benzene	10.00	91	39576	2.720	ug/l	98
68) m/p-Xylenes	10.23	106	28504	5.698	ug/l	81
69) o-Xylene	10.79	106	11971	2.195	ug/l	64
80) 1,3,5-Trimethylbenzene	11.89	105	13517	1.090	ug/l	92
84) 1,2,4-Trimethylbenzene	12.26	105	27787	2.260	ug/l	93

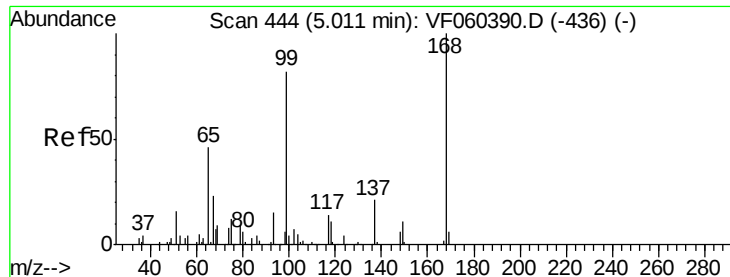
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.00 min Scan# 443

Delta R.T. -0.01 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

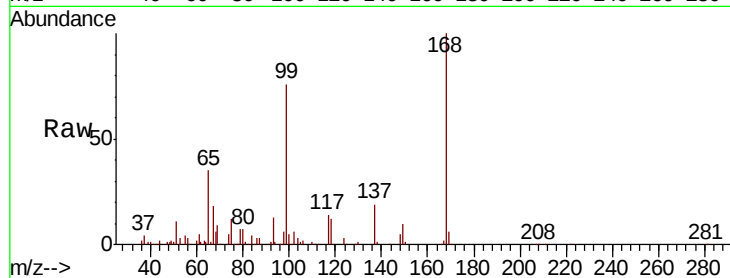
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 275704

Ion Ratio Lower Upper

168 100

99 76.2 65.3 97.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.00

100000

80000

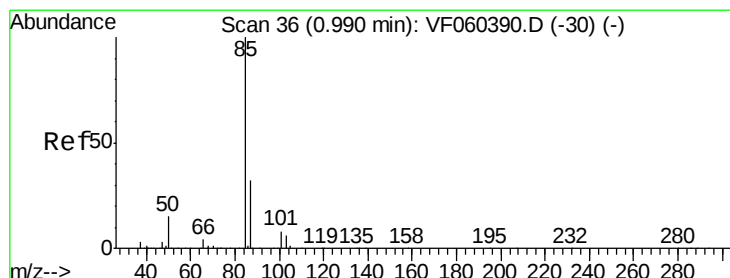
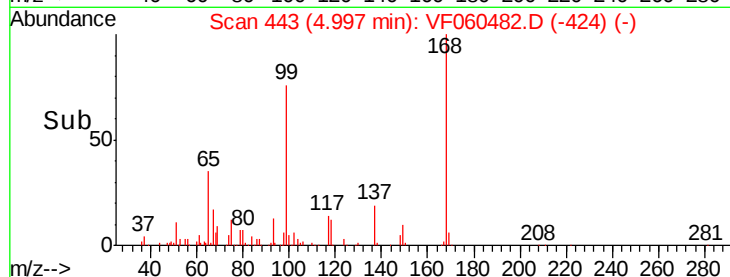
60000

40000

20000

0

Time--> 4.80 4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.01 min Scan# 39

Delta R.T. 0.03 min

Lab File: VF060482.D

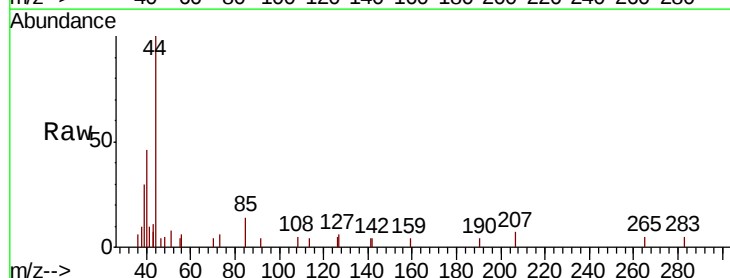
Acq: 8 Oct 2018 14:08

Tgt Ion: 85 Resp: 491

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

1.01

400

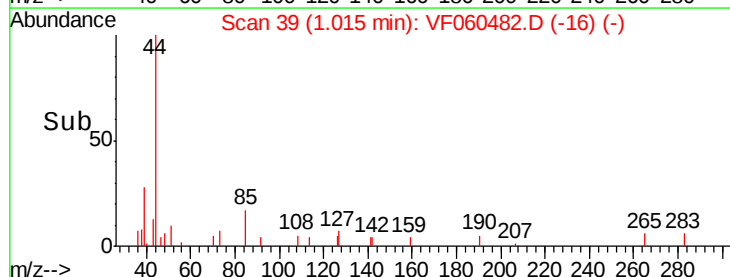
300

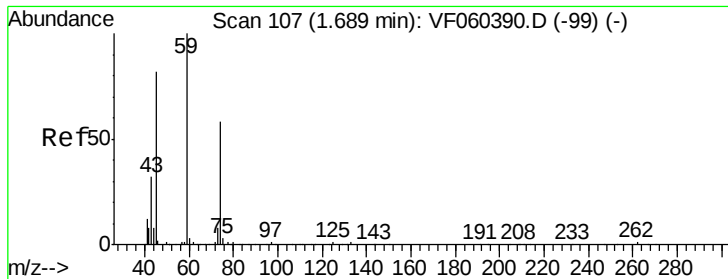
200

100

0

Time--> 0.95 1.00 1.05





#8

Diethyl Ether

Concen: 1.462 ug/l

RT: 1.69 min Scan# 107

Delta R.T. -0.00 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

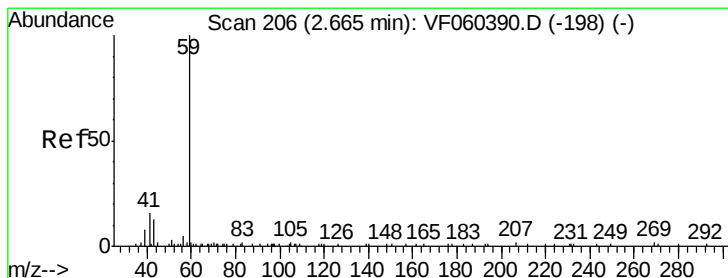
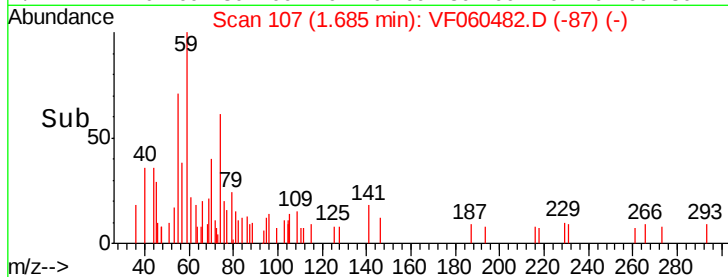
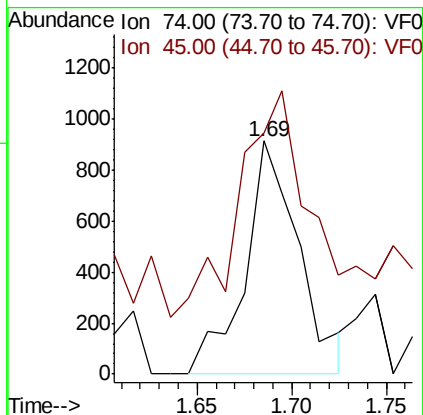
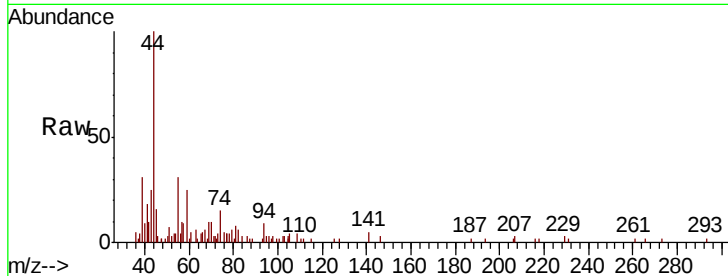
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 1811

Ion Ratio Lower Upper

74 100

45 103.6 71.3 213.8



#11

Tert butyl alcohol

Concen: 2.847 ug/l

RT: 2.64 min Scan# 204

Delta R.T. -0.02 min

Lab File: VF060482.D

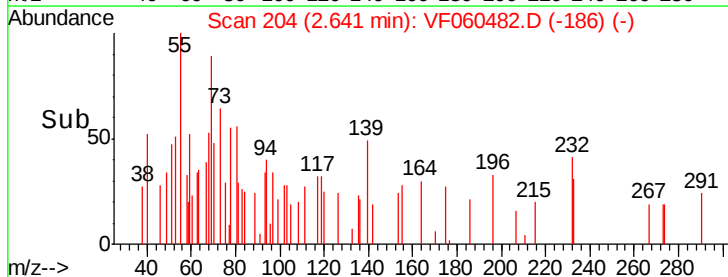
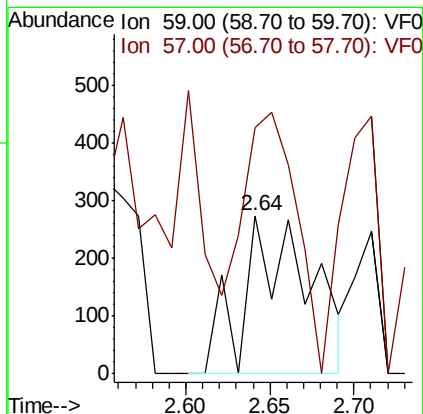
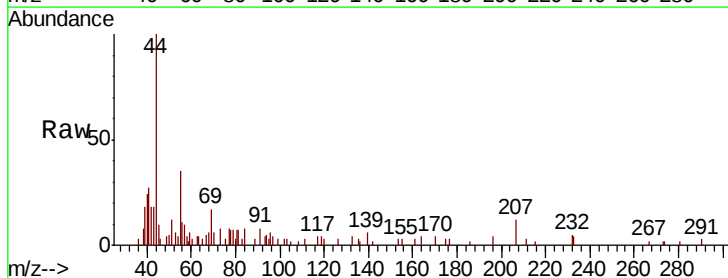
Acq: 8 Oct 2018 14:08

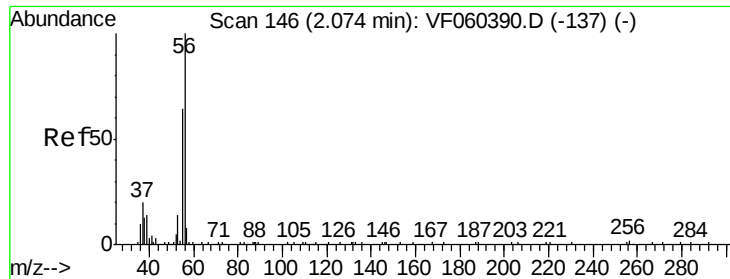
Tgt Ion: 59 Resp: 743

Ion Ratio Lower Upper

59 100

57 156.2 6.5 9.7#

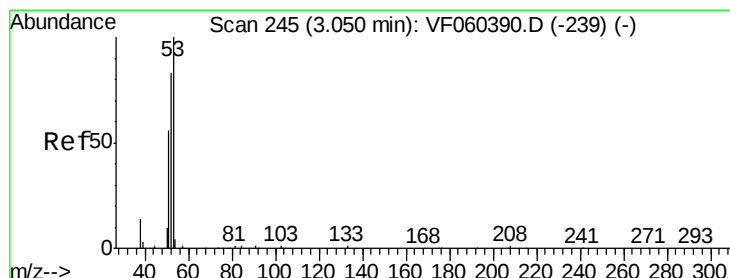
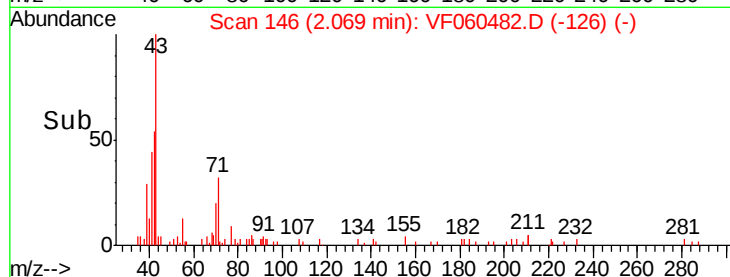
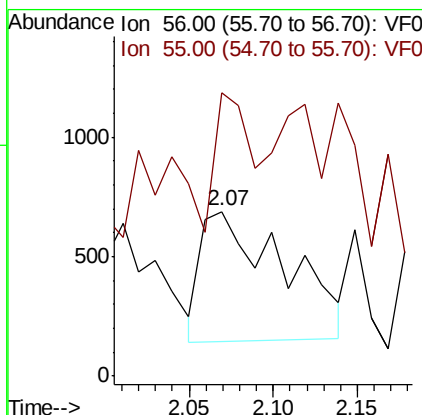
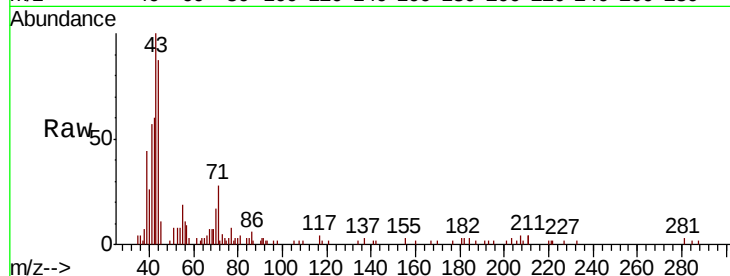




#13
Acrolein
Concen: 8.892 ug/l
RT: 2.07 min Scan# 146
Delta R.T. -0.00 min
Lab File: VF060482.D
Acq: 8 Oct 2018 14:08

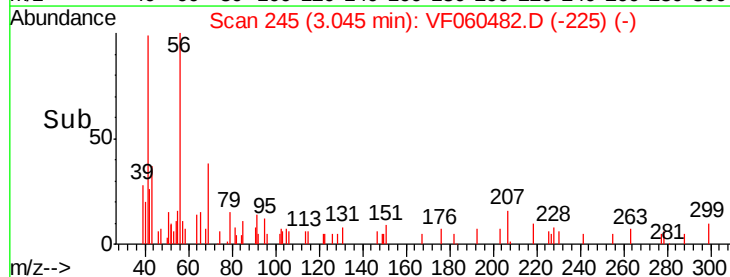
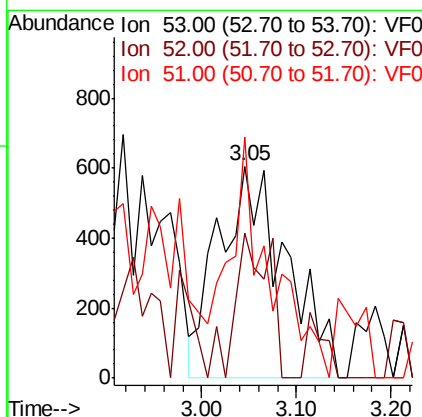
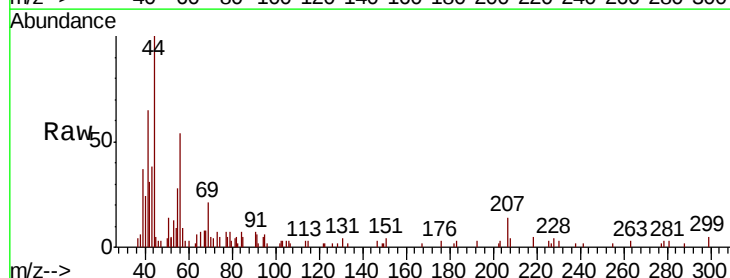
Instrument :
MSVOA_F
ClientSampled :

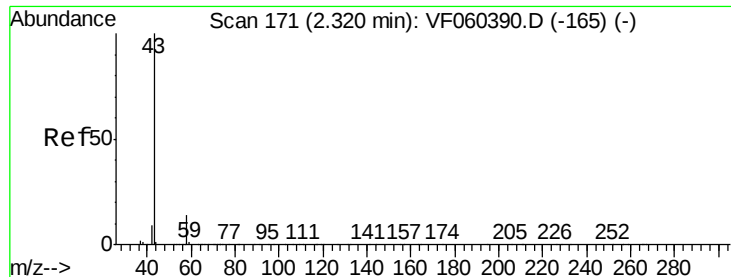
Tot Ion: 56 Resp: 1866
Ion Ratio Lower Upper
56 100
55 172.2 53.9 80.9#



#15
Acrylonitrile
Concen: 6.738 ug/l
RT: 3.05 min Scan# 245
Delta R.T. -0.00 min
Lab File: VF060482.D
Acq: 8 Oct 2018 14:08

Tgt Ion: 53 Resp: 3013
Ion Ratio Lower Upper
53 100
52 68.4 66.0 99.0
51 113.6 45.6 68.4#





#16

Acetone

Concen: Below Cal

RT: 2.33 min Scan# 172

Delta R.T. 0.01 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

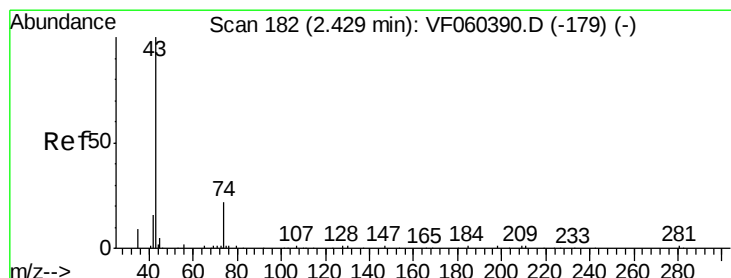
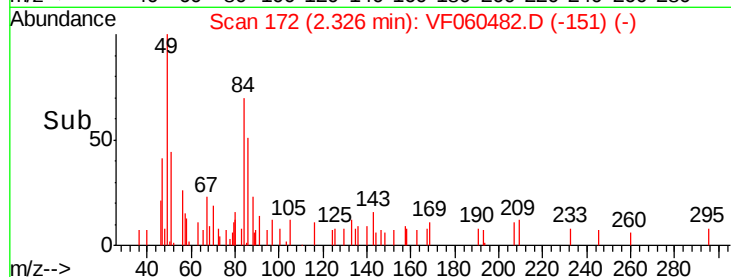
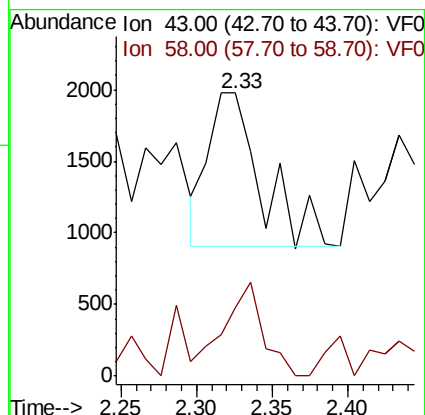
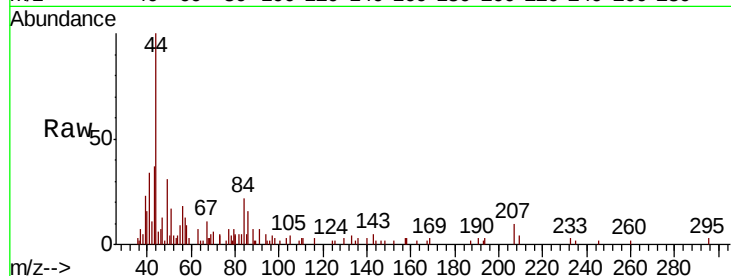
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 2632

Ion Ratio Lower Upper

43 100

58 24.1 11.2 16.8#



#18

Methyl Acetate

Concen: 2.583 ug/l

RT: 2.46 min Scan# 186

Delta R.T. 0.04 min

Lab File: VF060482.D

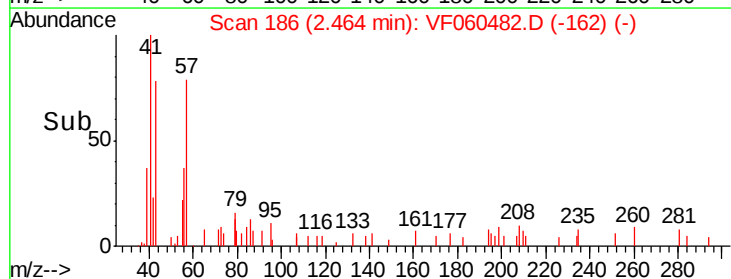
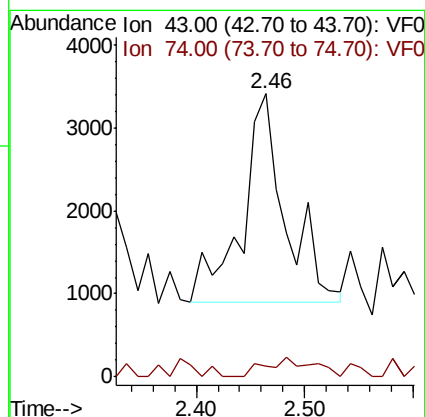
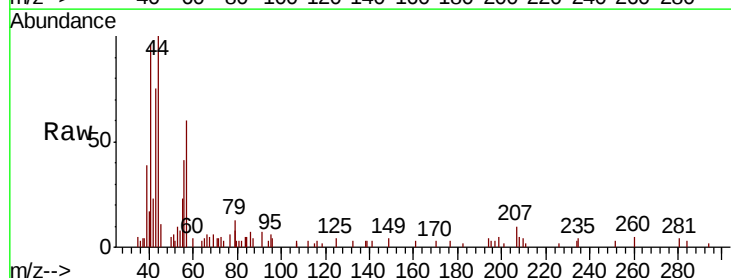
Acq: 8 Oct 2018 14:08

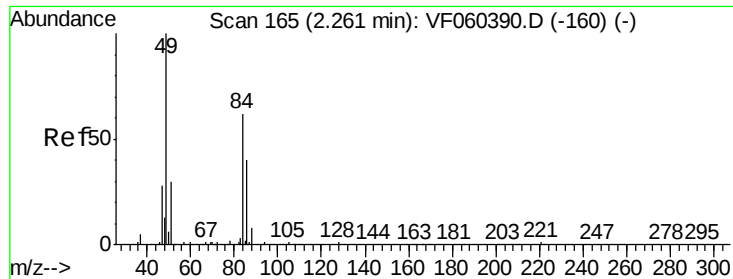
Tgt Ion: 43 Resp: 6922

Ion Ratio Lower Upper

43 100

74 4.0 15.8 23.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.26 min Scan# 165

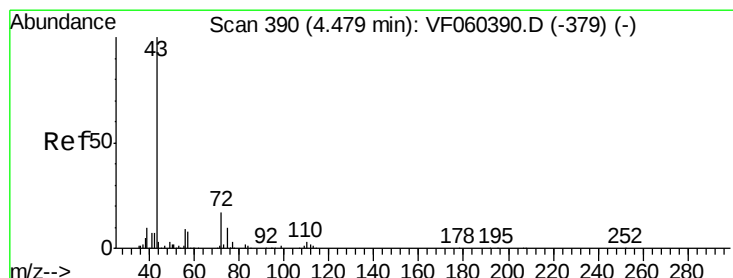
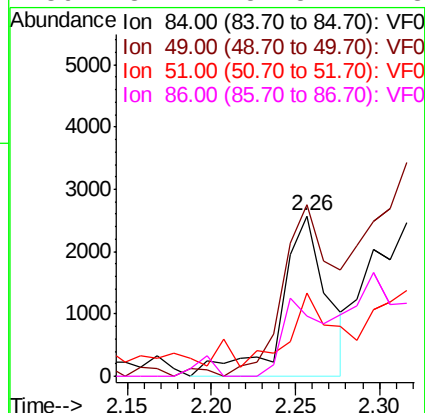
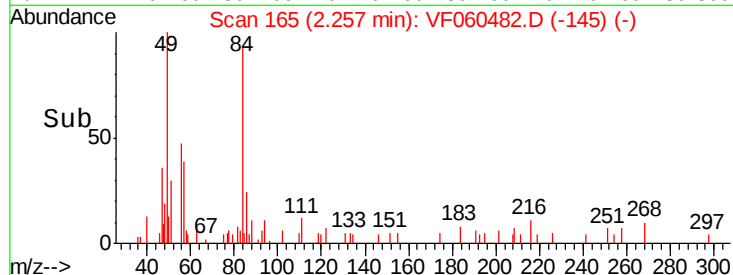
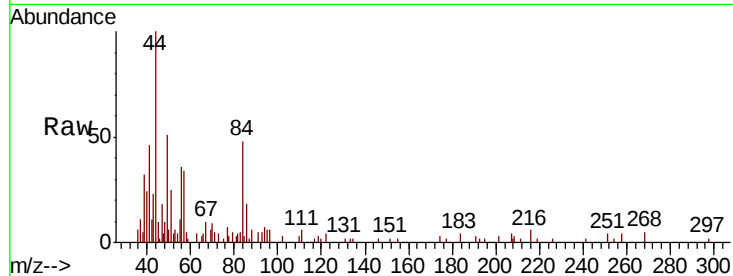
Delta R.T. -0.00 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	84	Resp:	4818
Ion	Ratio	Lower	Upper
84	100		
49	107.1	130.2	195.2#
51	51.6	41.0	61.6
86	37.4	51.5	77.3#



#25

2-Butanone

Concen: 1.550 ug/l

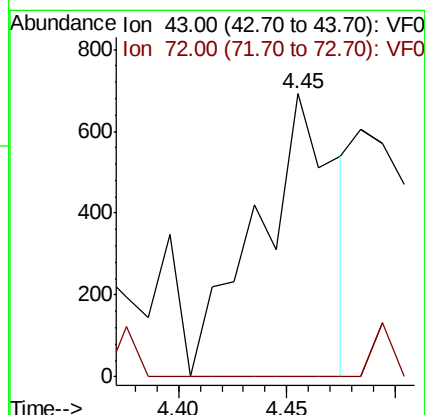
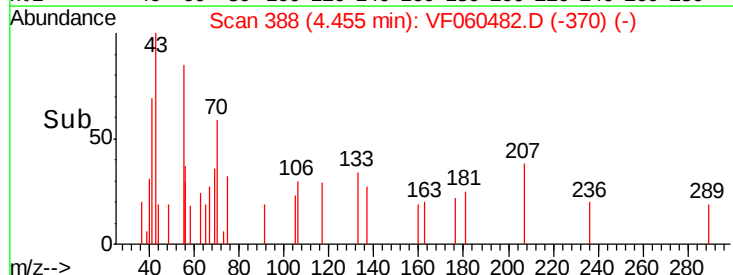
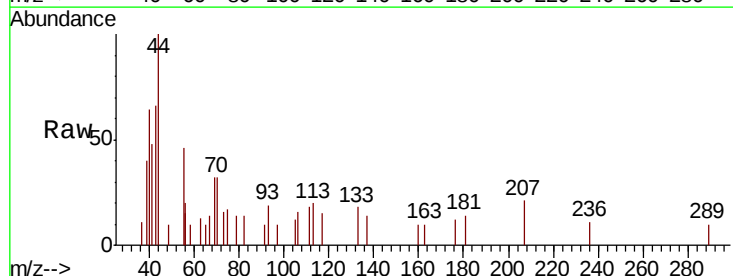
RT: 4.45 min Scan# 388

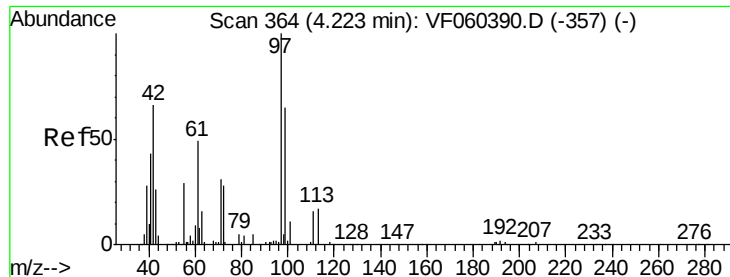
Delta R.T. -0.02 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

Tgt Ion:	43	Resp:	1731
Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.1	21.1#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.23 min Scan# 365

Delta R.T. 0.01 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

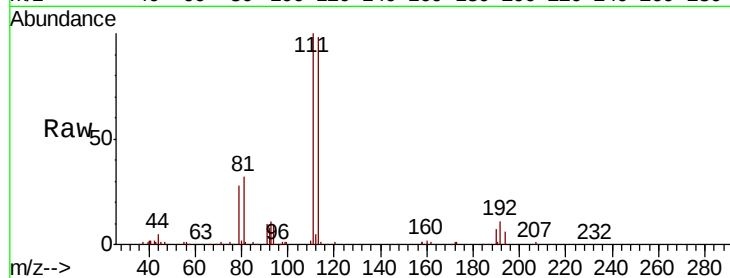
Tot Ion: 42 Resp: 1126

Ion Ratio Lower Upper

42 100

72 40.1 33.6 50.4

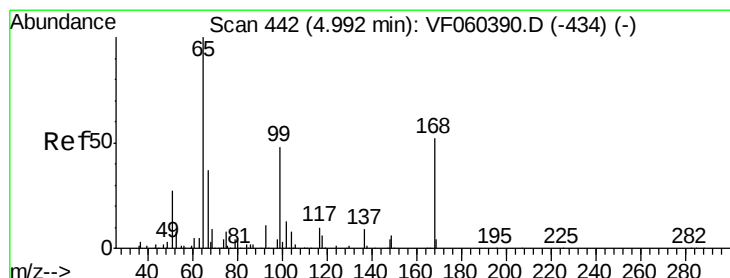
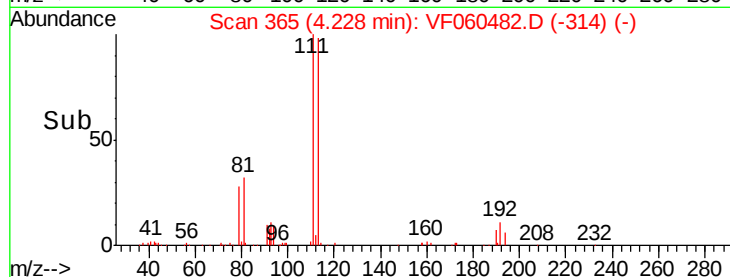
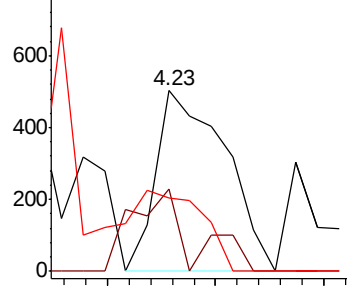
71 47.0 32.7 49.1



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: 39.547 ug/l

RT: 4.98 min Scan# 441

Delta R.T. -0.01 min

Lab File: VF060482.D

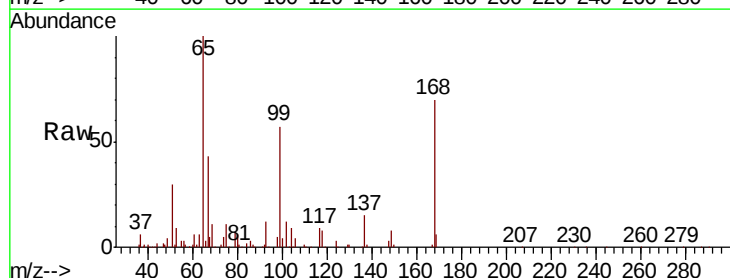
Acq: 8 Oct 2018 14:08

Tgt Ion: 65 Resp: 170610

Ion Ratio Lower Upper

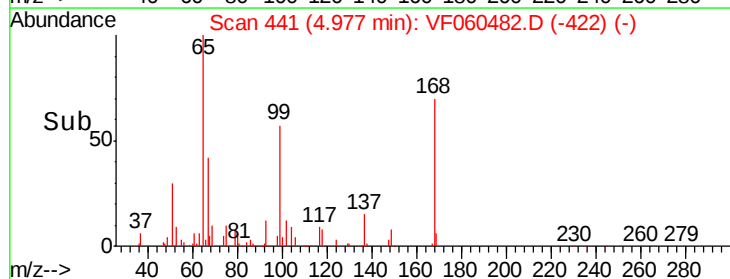
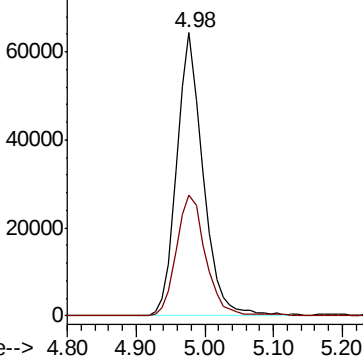
65 100

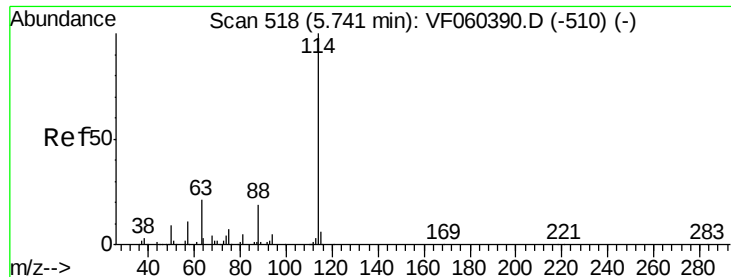
67 42.6 0.0 89.4



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: 5.73 min Scan# 517

Delta R.T. -0.01 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

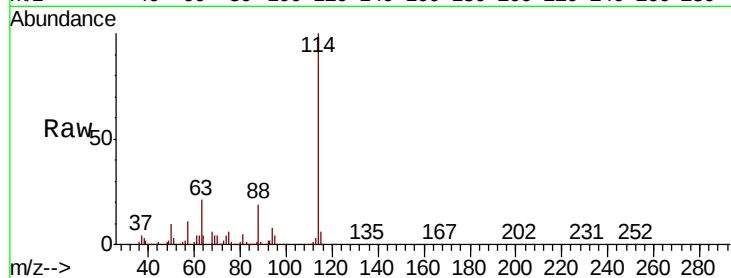
Tot Ion:114 Resp: 463668

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.2

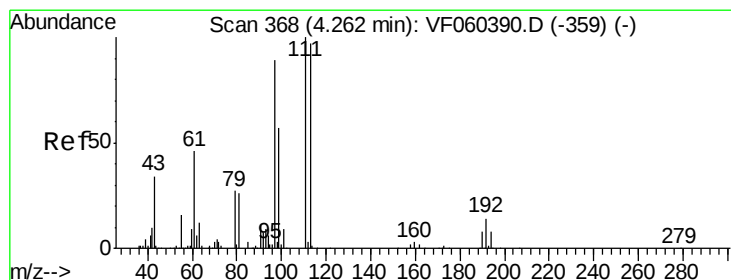
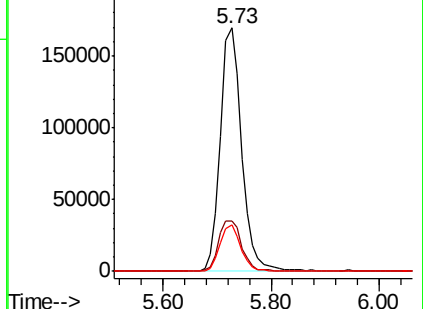
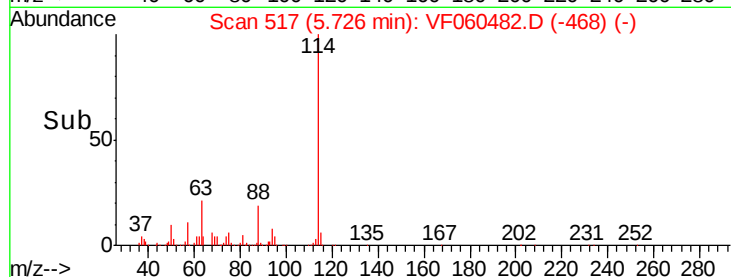
88 19.2 0.0 38.8



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: 41.878 ug/l

RT: 4.25 min Scan# 367

Delta R.T. -0.01 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

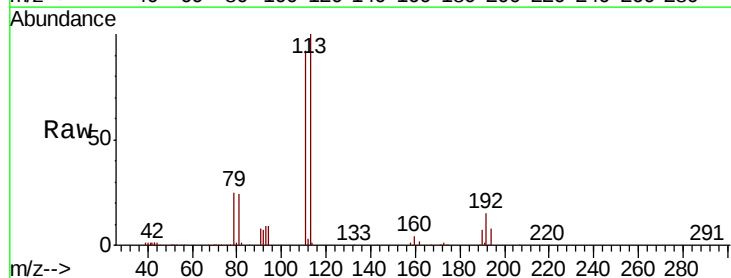
Tgt Ion:113 Resp: 182413

Ion Ratio Lower Upper

113 100

111 92.5 82.3 123.5

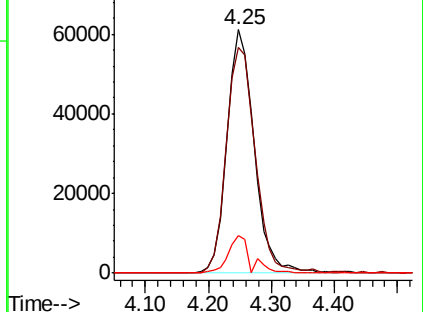
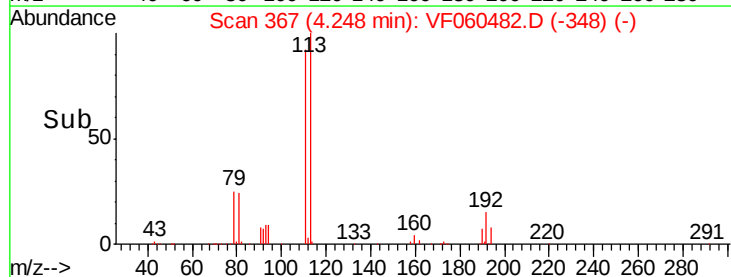
192 15.3 11.8 17.6

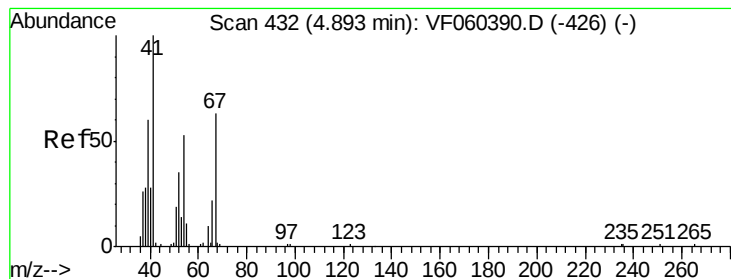


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: 1.074 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.01 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 41 Resp: 1247

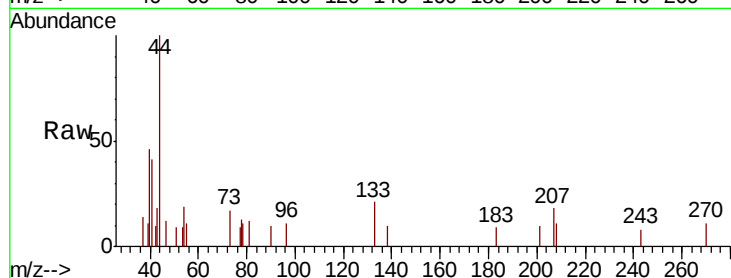
Ion Ratio Lower Upper

41 100

39 27.6 55.0 82.4#

67 0.0 49.6 74.4#

52 0.0 38.8 58.2#

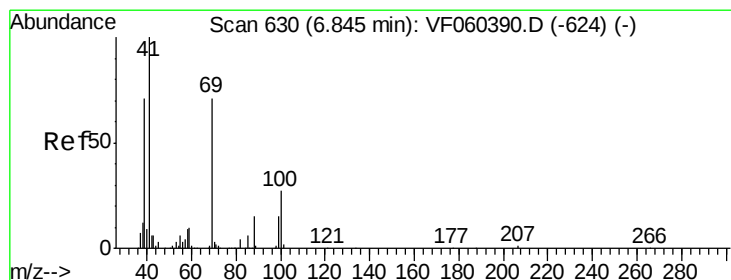
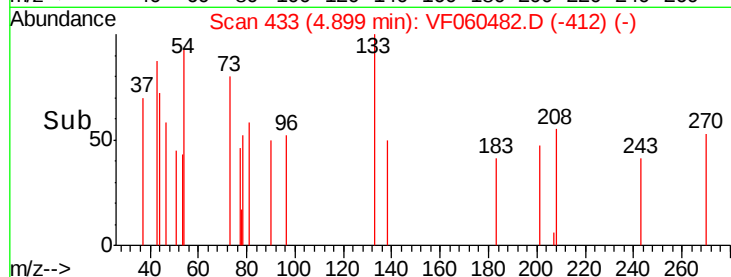
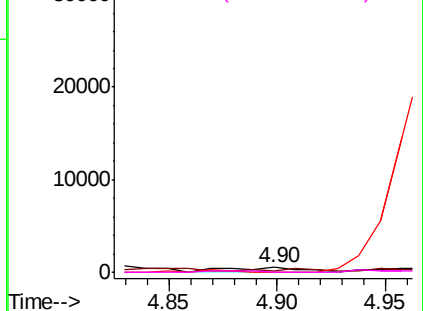


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#49

1,4-Dioxane

Concen: 3.909 ug/l

RT: 6.80 min Scan# 626

Delta R.T. -0.04 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

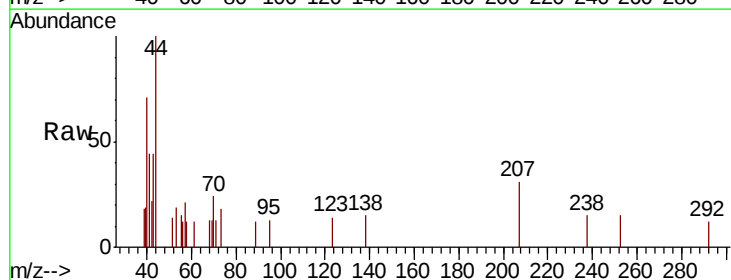
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 365.7 38.3 57.5#

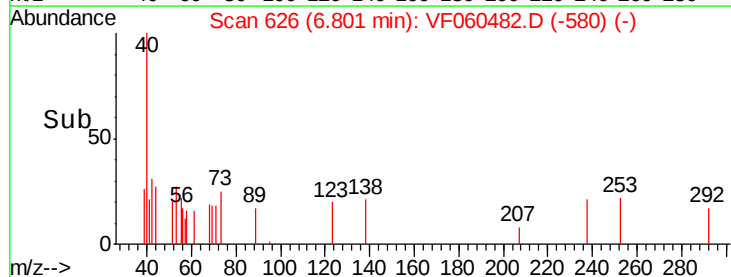
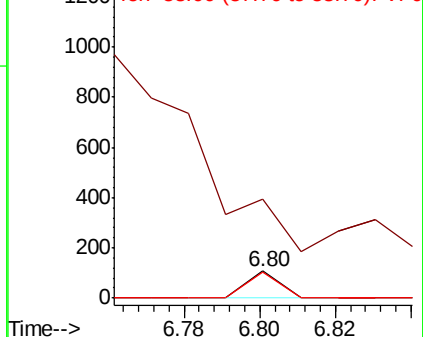
58 96.3 47.4 71.2#

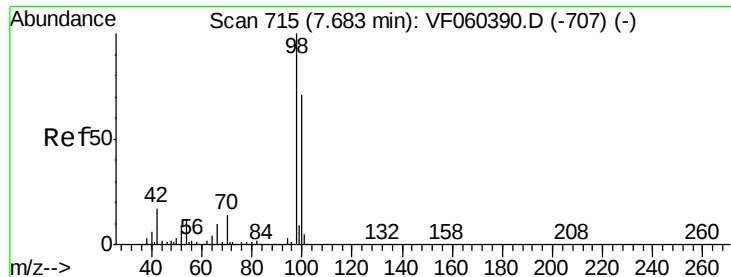


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 30.829 ug/l

RT: 7.67 min Scan# 714

Delta R.T. -0.01 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

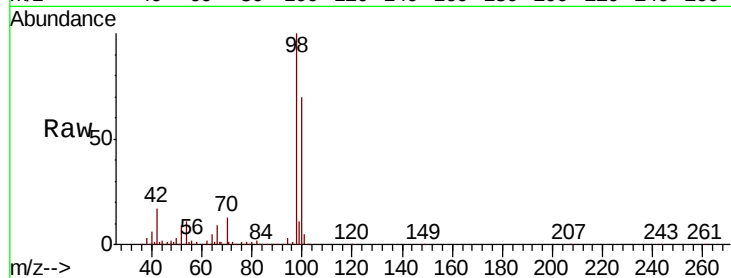
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 98 Resp: 330720

Ion Ratio Lower Upper

98 100

100 70.3 56.5 84.7



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.67

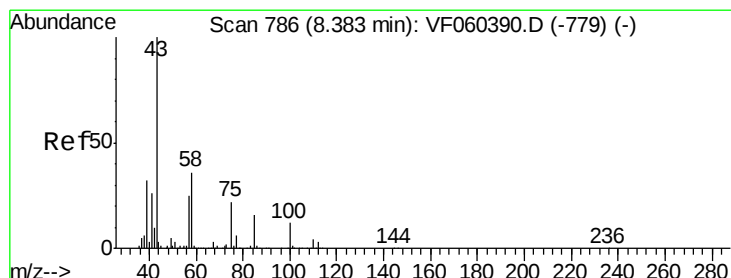
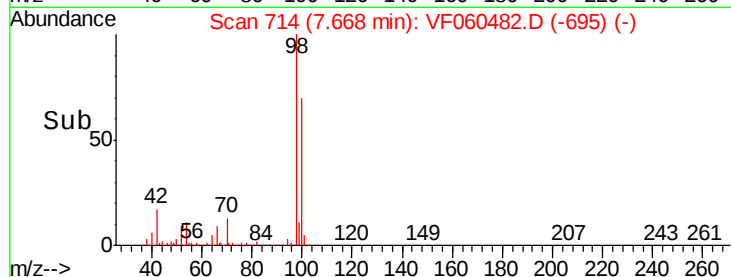
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#51

4-Methyl-2-Pentanone

Concen: 2.178 ug/l

RT: 8.39 min Scan# 787

Delta R.T. 0.01 min

Lab File: VF060482.D

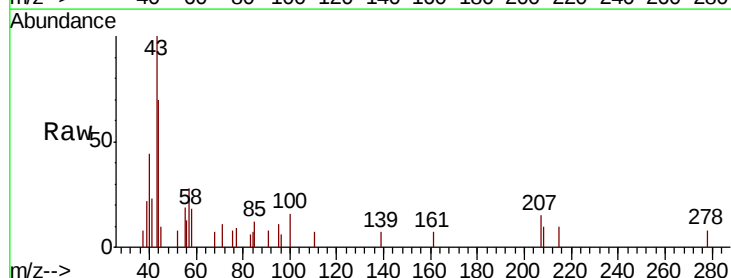
Acq: 8 Oct 2018 14:08

Tgt Ion: 43 Resp: 4101

Ion Ratio Lower Upper

43 100

58 18.5 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.39

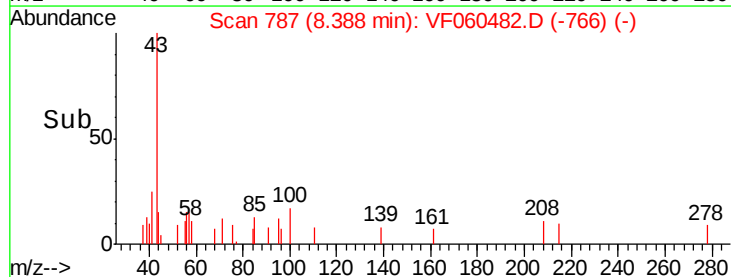
1500

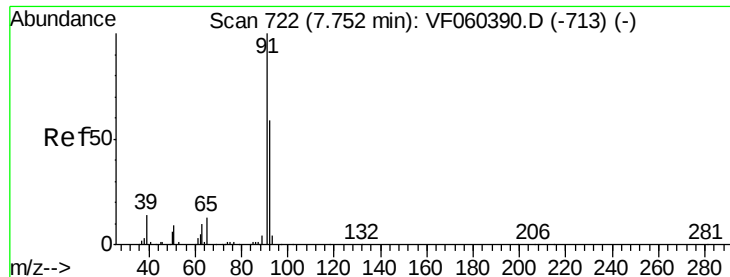
1000

500

0

Time--> 8.30 8.35 8.40 8.45





#52

Toluene

Concen: 1.303 ug/l

RT: 7.75 min Scan# 722

Delta R.T. -0.00 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

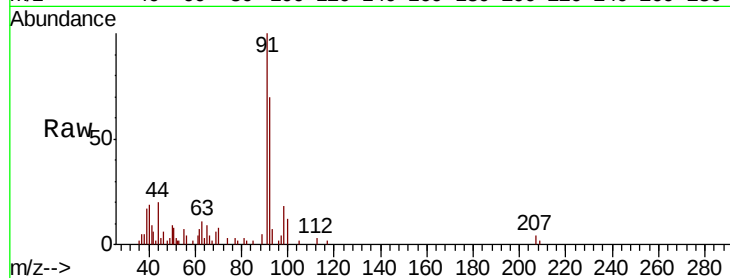
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 92 Resp: 10047

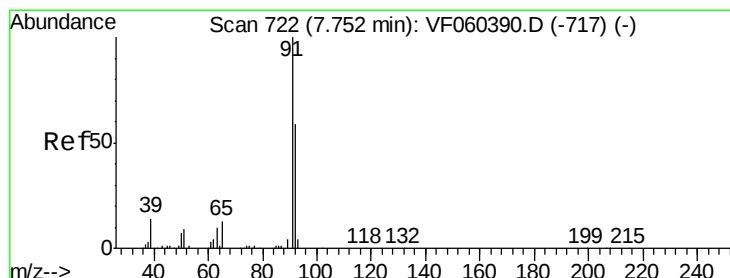
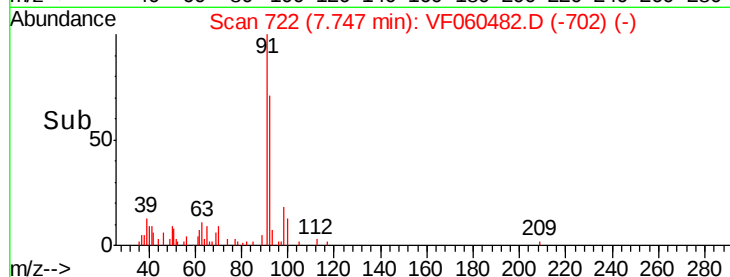
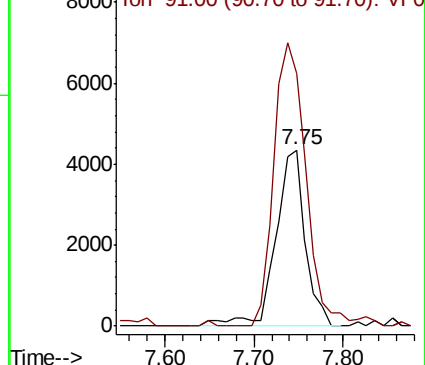
Ion Ratio Lower Upper

92 100

91 143.6 135.4 203.0



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: 7.899 ug/l

RT: 7.74 min Scan# 721

Delta R.T. -0.01 min

Lab File: VF060482.D

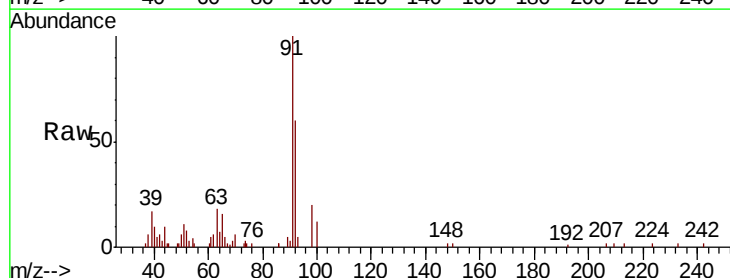
Acq: 8 Oct 2018 14:08

Tgt Ion: 63 Resp: 2240

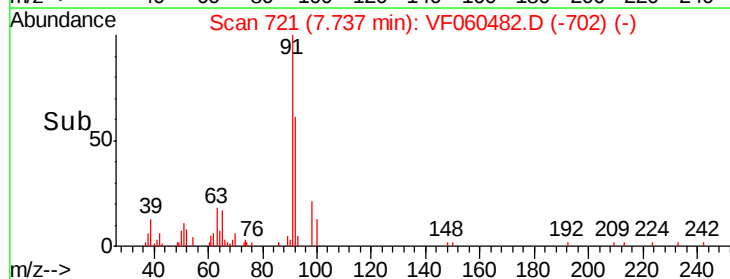
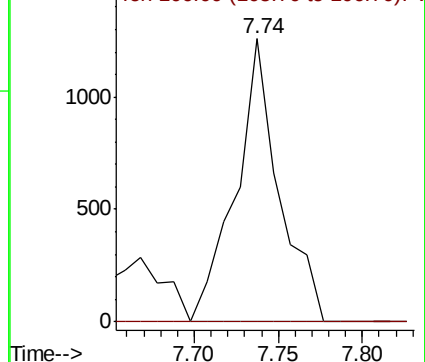
Ion Ratio Lower Upper

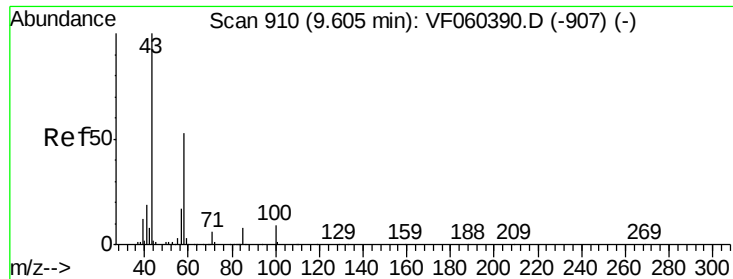
63 100

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

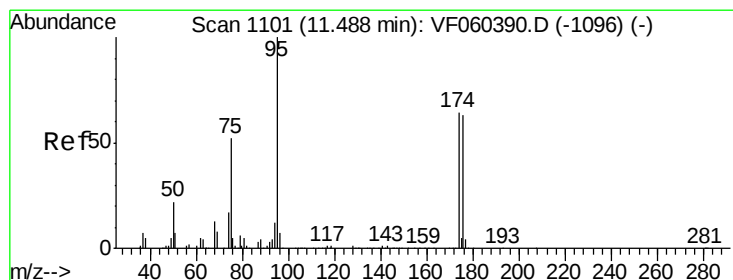
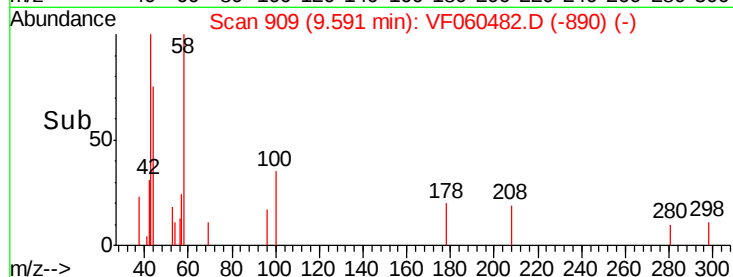
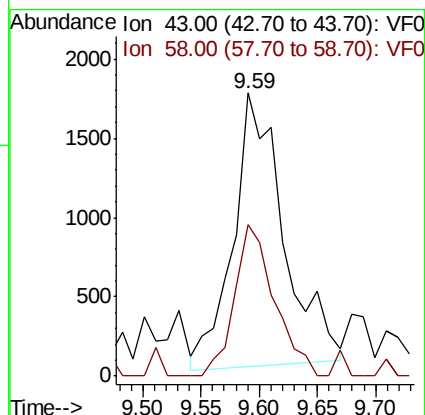
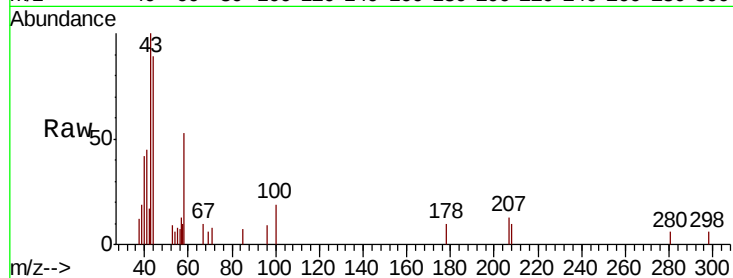




#59
2-Hexanone
Concen: 3.763 ug/l
RT: 9.59 min Scan# 909
Delta R.T. -0.01 min
Lab File: VF060482.D
Acq: 8 Oct 2018 14:08

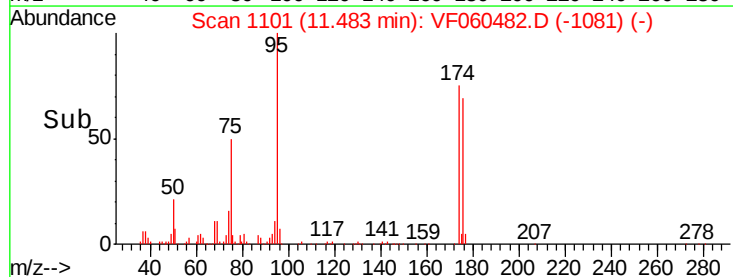
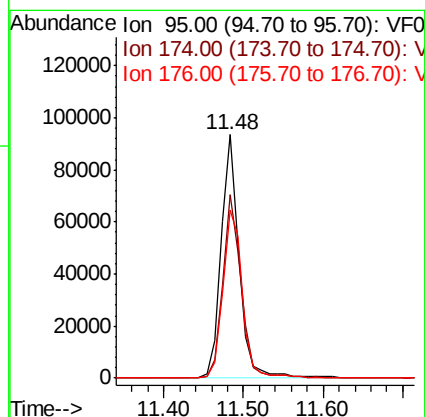
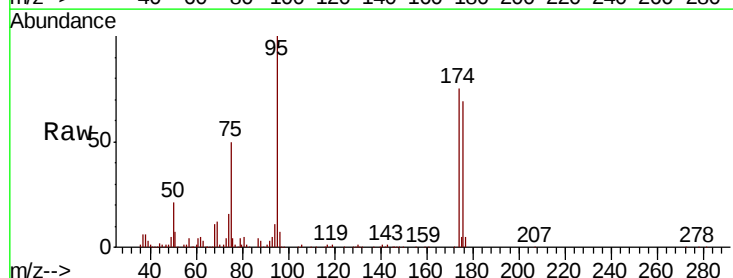
Instrument :
MSVOA_F
ClientSampleId :

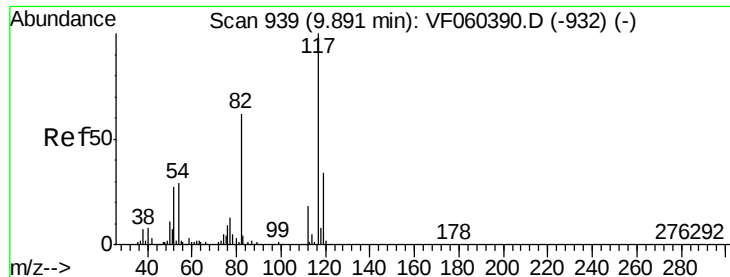
Tot Ion: 43 Resp: 5198
Ion Ratio Lower Upper
43 100
58 53.4 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 30.624 ug/l
RT: 11.48 min Scan# 1101
Delta R.T. -0.00 min
Lab File: VF060482.D
Acq: 8 Oct 2018 14:08

Tgt Ion: 95 Resp: 150001
Ion Ratio Lower Upper
95 100
174 75.3 0.0 129.0
176 69.3 0.0 125.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.01 min

Lab File: VF060482.D

Acq: 8 Oct 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

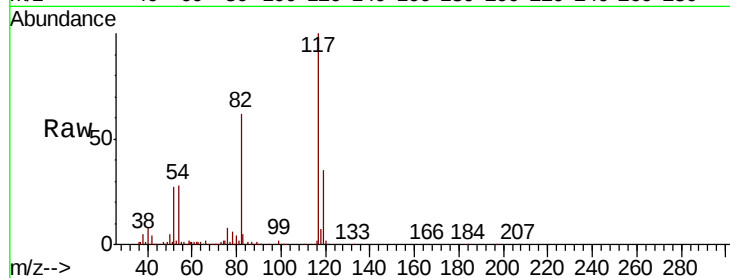
Tot Ion:117 Resp: 372583

Ion Ratio Lower Upper

117 100

82 62.4 49.5 74.3

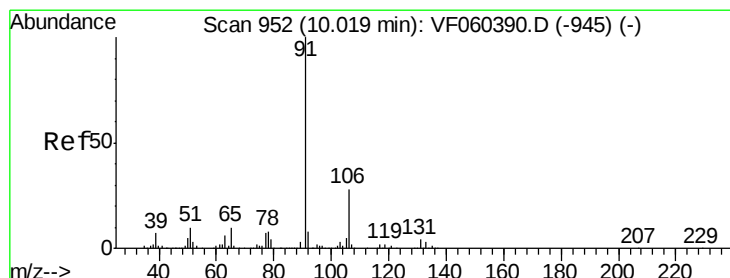
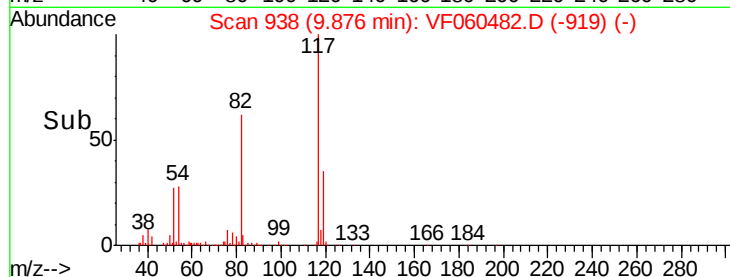
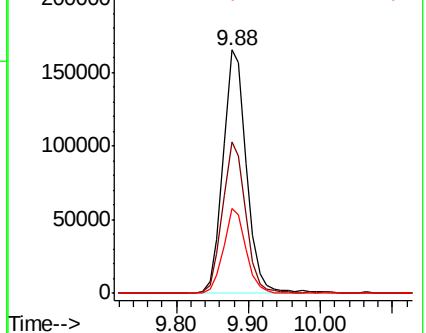
119 34.7 27.0 40.6



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



#67

Ethyl Benzene

Concen: 2.720 ug/l

RT: 10.00 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF060482.D

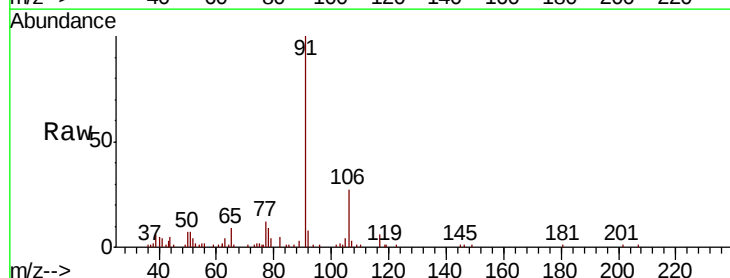
Acq: 8 Oct 2018 14:08

Tgt Ion: 91 Resp: 39576

Ion Ratio Lower Upper

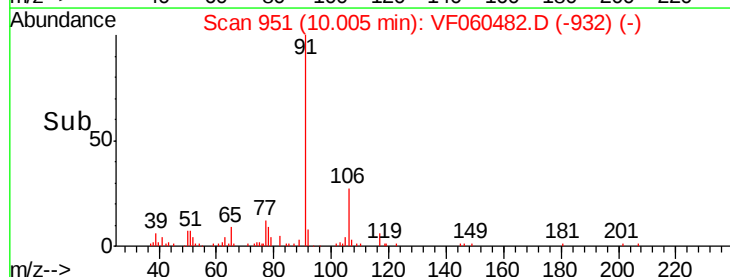
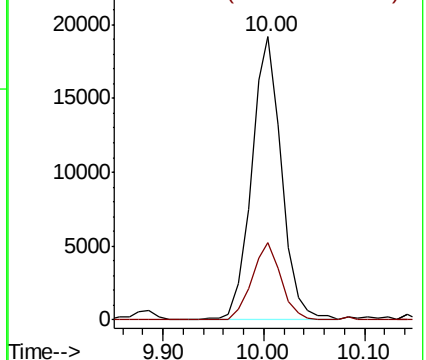
91 100

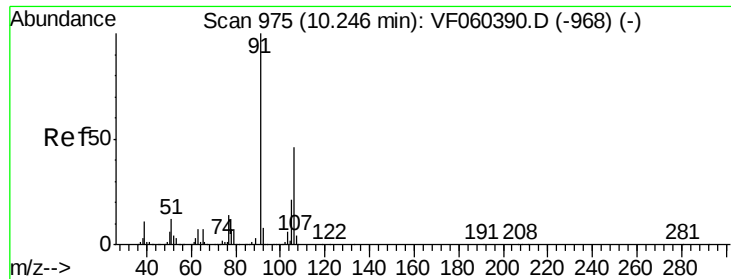
106 27.3 22.5 33.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

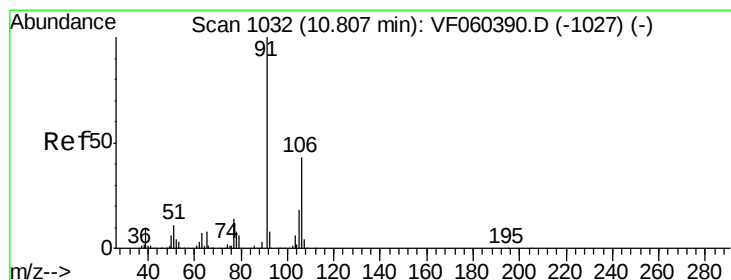
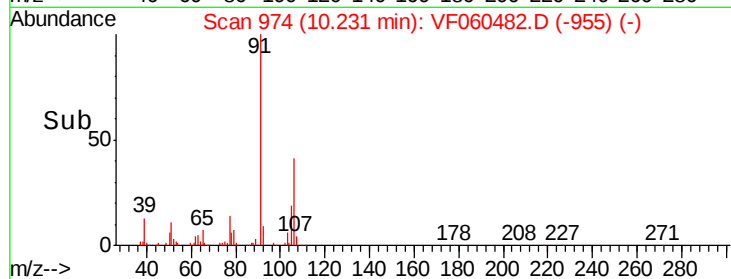
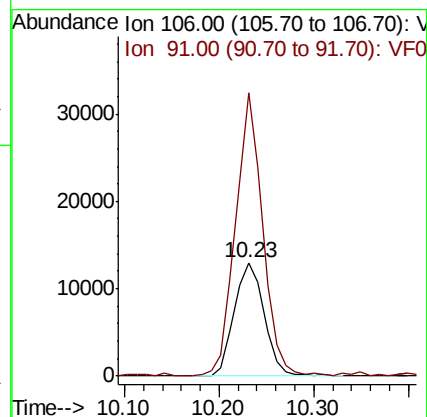
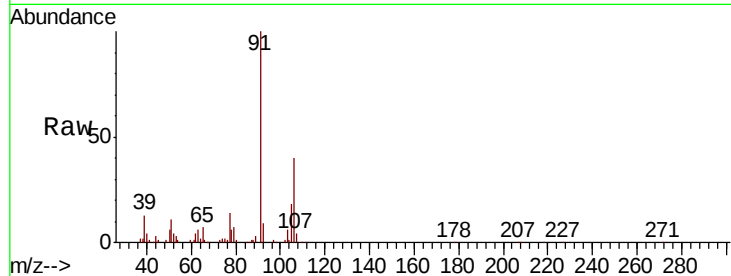




#68
m/p-Xylenes
Concen: 5.698 ug/l
RT: 10.23 min Scan# 974
Delta R.T. -0.01 min
Lab File: VF060482.D
Acq: 8 Oct 2018 14:08

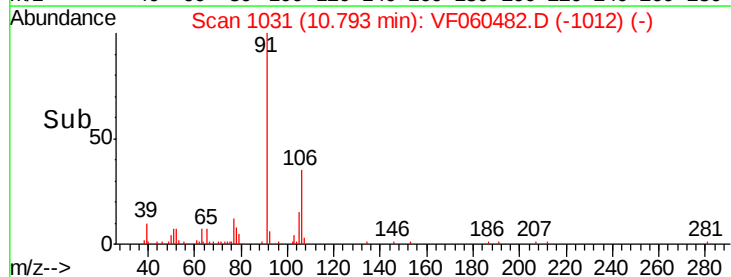
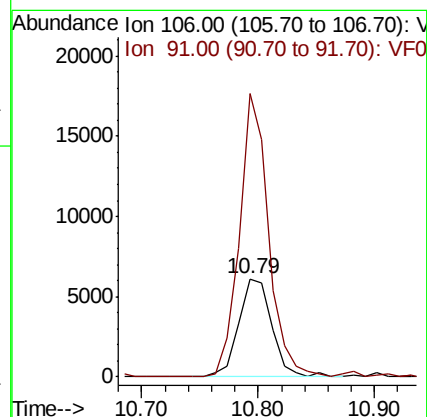
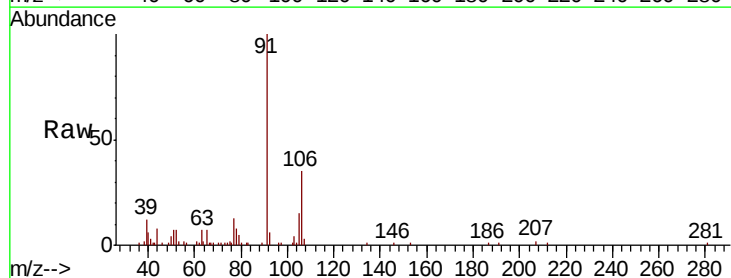
Instrument :
MSVOA_F
ClientSampled :

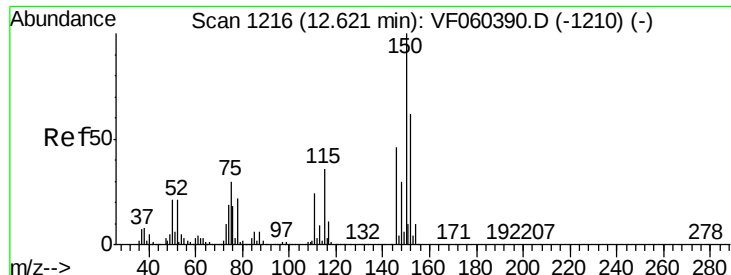
Tot Ion:106 Resp: 28504
Ion Ratio Lower Upper
106 100
91 249.0 175.0 262.6



#69
o-Xylene
Concen: 2.195 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VF060482.D
Acq: 8 Oct 2018 14:08

Tgt Ion:106 Resp: 11971
Ion Ratio Lower Upper
106 100
91 289.3 115.1 345.2



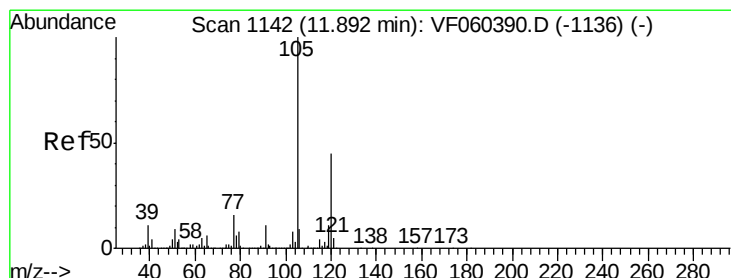
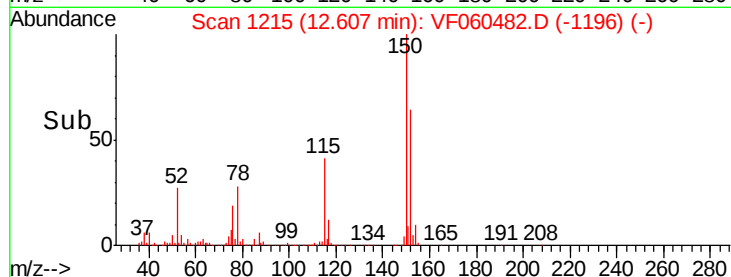
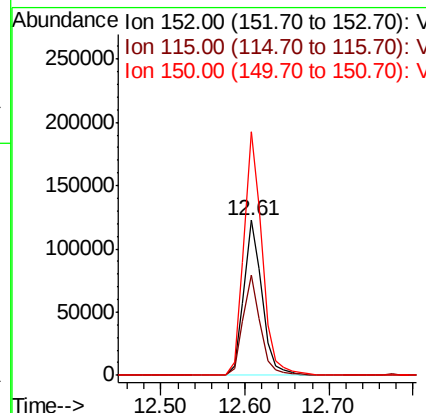
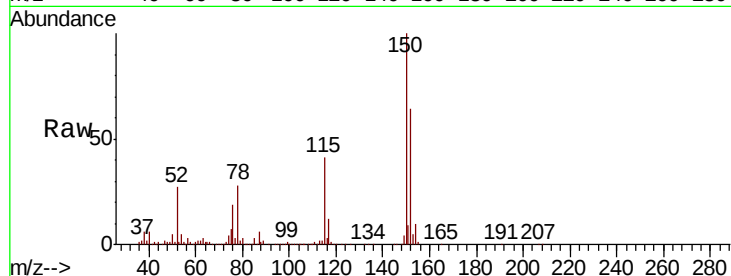


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1215
Delta R.T. -0.01 min
Lab File: VF060482.D
Acq: 8 Oct 2018 14:08

Instrument :
MSVOA_F
ClientSampled :

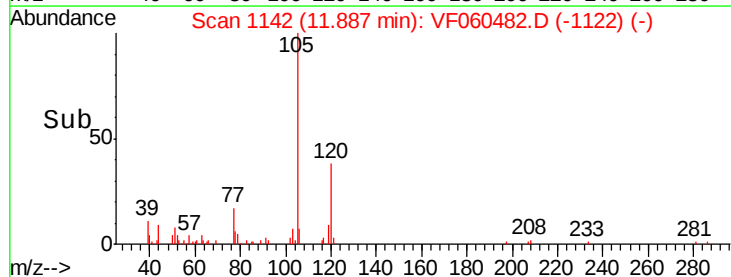
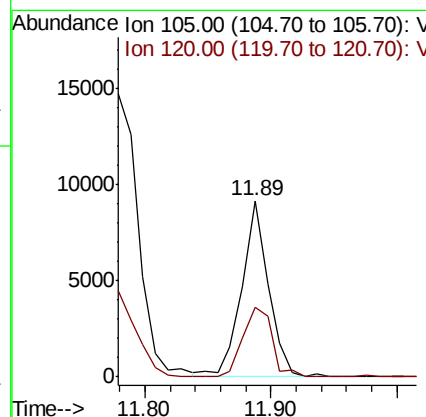
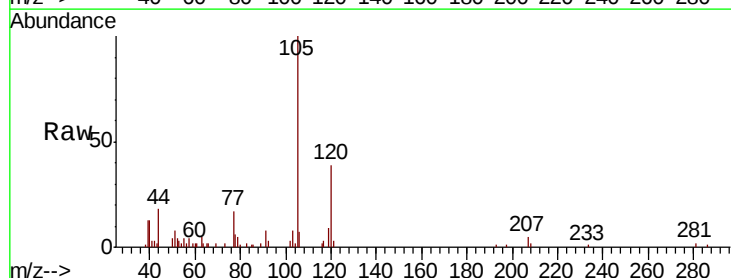
Tot Ion	Ratio	Lower	Upper
152	100		
115	65.0	28.6	85.8
150	157.1	0.0	324.6

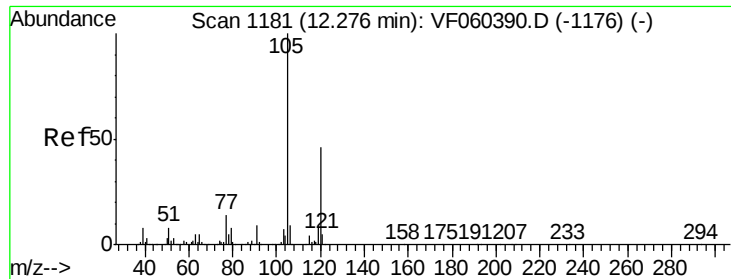


#80

1,3,5-Trimethylbenzene
Concen: 1.090 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VF060482.D
Acq: 8 Oct 2018 14:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	39.3	22.3	66.9





#84
 1,2,4-Trimethylbenzene
 Concen: 2.260 ug/l
 RT: 12.26 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: VF060482.D
 Acq: 8 Oct 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:105 Resp: 27787
 Ion Ratio Lower Upper
 105 100
 120 50.5 23.1 69.2

