

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092618\
 Data File : VF060351.D
 Acq On : 26 Sep 2018 14:57
 Operator : VA/AP
 Sample : J4779-07RE
 Misc : 7.05/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-092418-B

Quant Time: Sep 26 15:56:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

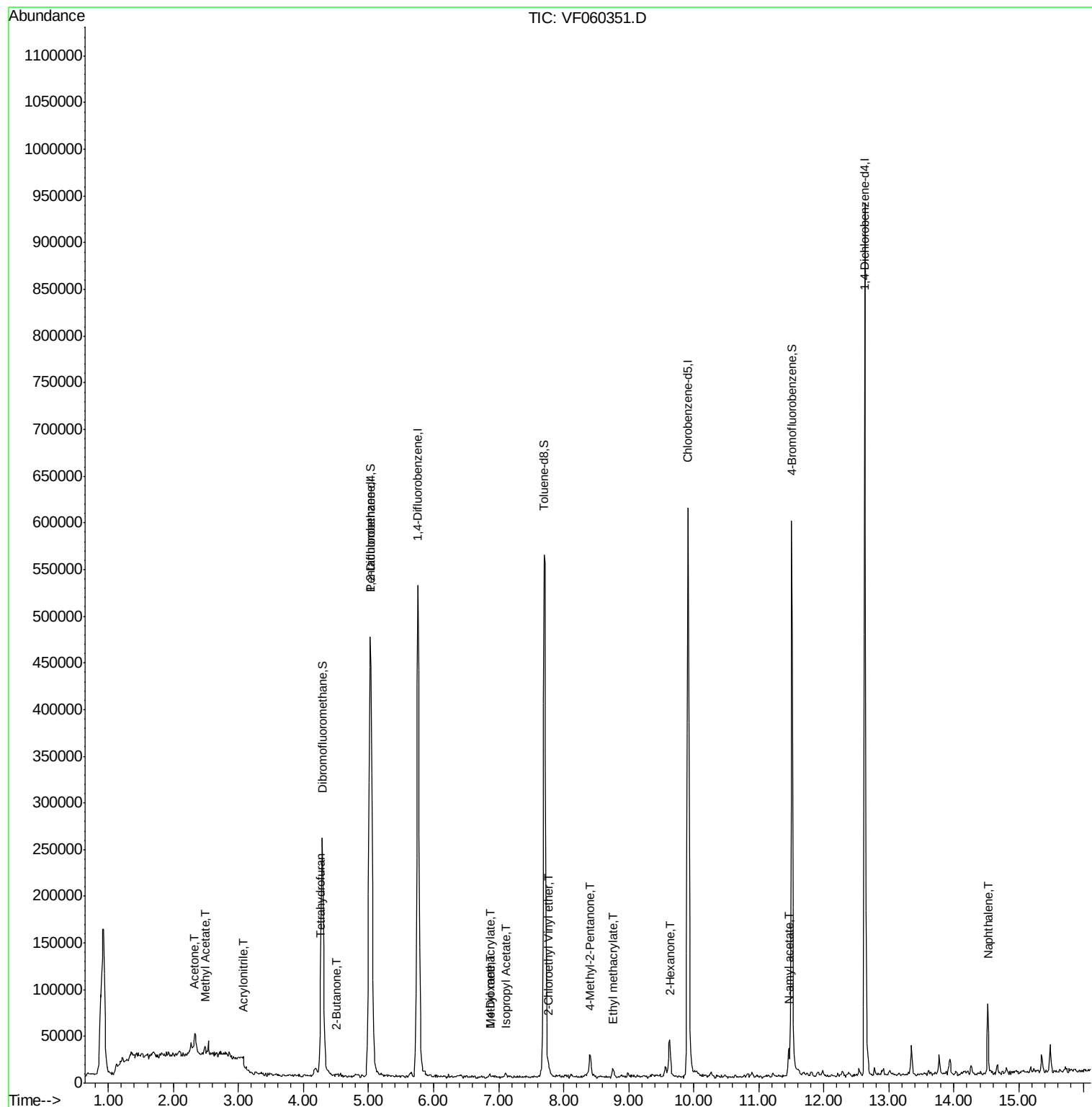
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	336486	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	542523	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	445739	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	220202	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	211181	46.61	ug/l	0.01
Spiked Amount	50.000		Recovery	=	93.22%	
35) Dibromofluoromethane	4.29	113	234934	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
50) Toluene-d8	7.71	98	494679	39.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.56%	
62) 4-Bromofluorobenzene	11.50	95	207824	38.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.34%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.99	85	337	Below Cal	#	40
5) Bromomethane	1.33	94	331	Below Cal		94
11) Tert butyl alcohol	2.69	59	2430	Below Cal	#	1
13) Acrolein	2.10	56	3665	Below Cal		89
15) Acrylonitrile	3.07	53	1510	2.360	ug/l #	66
16) Acetone	2.33	43	21522	16.867	ug/l	94
17) Carbon Disulfide	1.87	76	447	Below Cal	#	1
18) Methyl Acetate	2.48	43	3583	1.686	ug/l #	70
20) Methylene Chloride	2.28	84	6691	Below Cal	#	87
25) 2-Butanone	4.51	43	5352	3.116	ug/l #	80
29) Tetrahydrofuran	4.25	42	1160	1.844	ug/l #	72
43) Isopropyl Acetate	7.11	43	5639	1.636	ug/l #	98
48) Methyl methacrylate	6.87	41	2980	1.232	ug/l #	77
49) 1,4-Dioxane	6.87	88	640	29.605	ug/l #	20
51) 4-Methyl-2-Pentanone	8.40	43	25324	9.532	ug/l	95
56) Ethyl methacrylate	8.75	69	6817	1.916	ug/l #	83
58) 2-Chloroethyl Vinyl ether	7.77	63	614	1.952	ug/l	100
59) 2-Hexanone	9.63	43	36492	19.291	ug/l	99
74) N-amyl acetate	11.47	43	21545	5.111	ug/l #	90
78) n-propylbenzene	11.68	91	3403	Below Cal		85
85) sec-Butylbenzene	12.38	105	2203	Below Cal		83
86) p-Isopropyltoluene	12.54	119	3323	Below Cal		89
89) n-Butylbenzene	12.91	91	3519	Below Cal		96
95) Naphthalene	14.52	128	45296	4.681	ug/l #	93

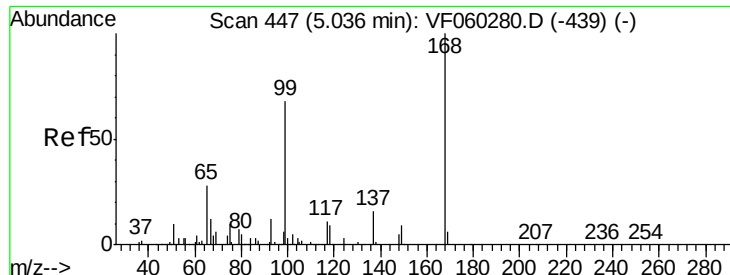
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 447

Delta R.T. 0.00 min

Lab File: VF060351.D

Acq: 26 Sep 2018 14:57

Instrument :

MSVOA_F

ClientSampleId :

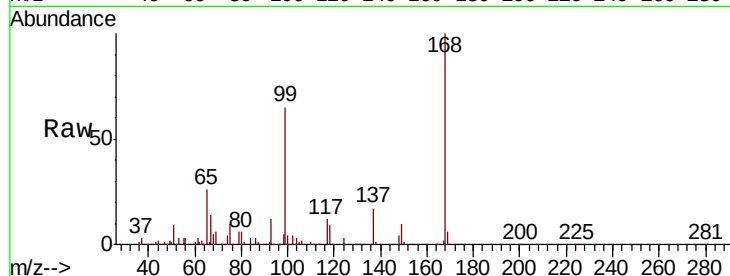
SU-02-092418-B

Tot Ion:168 Resp: 336486

Ion Ratio Lower Upper

168 100

99 64.8 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

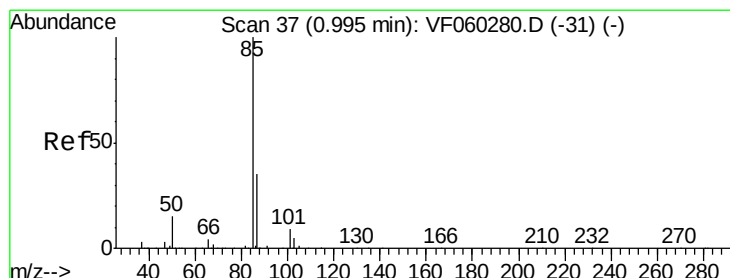
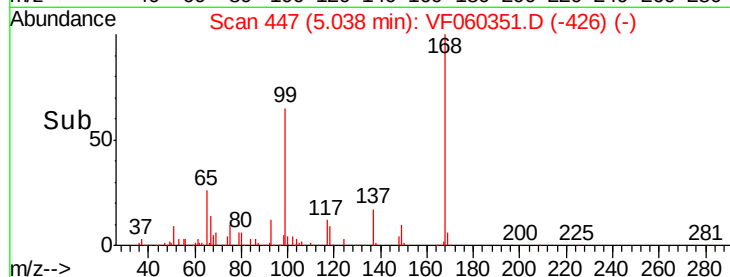
5.04

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 36

Delta R.T. -0.01 min

Lab File: VF060351.D

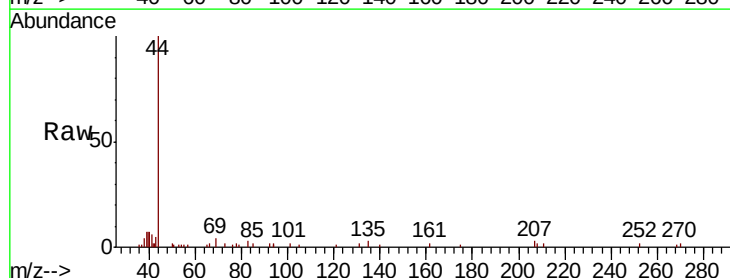
Acq: 26 Sep 2018 14:57

Tgt Ion: 85 Resp: 337

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

250

200

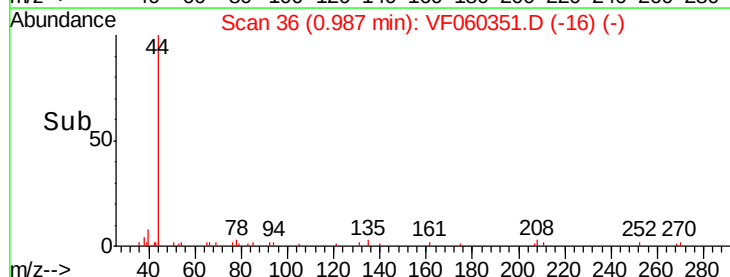
150

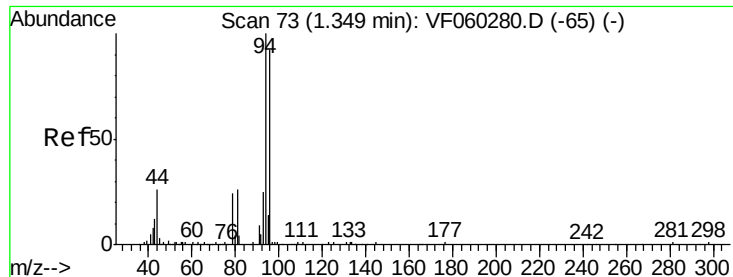
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.33 min Scan# 71

Delta R.T. -0.02 min

Lab File: VF060351.D

Acq: 26 Sep 2018 14:57

Instrument :

MSVOA_F

ClientSampleId :

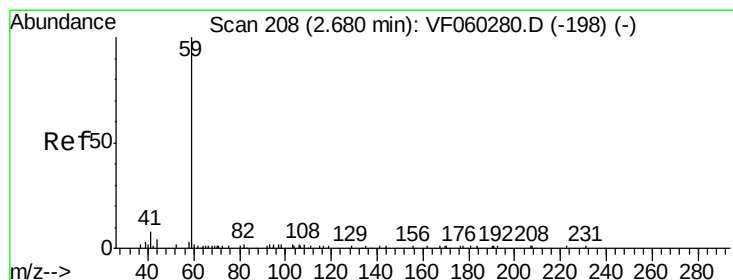
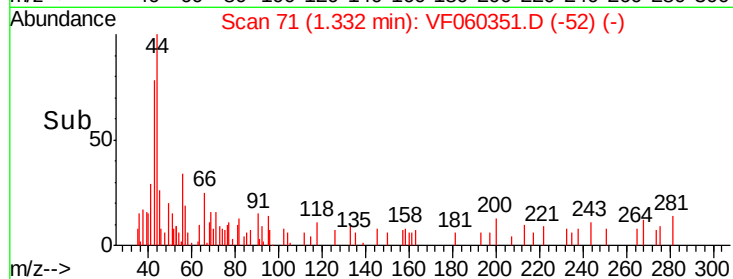
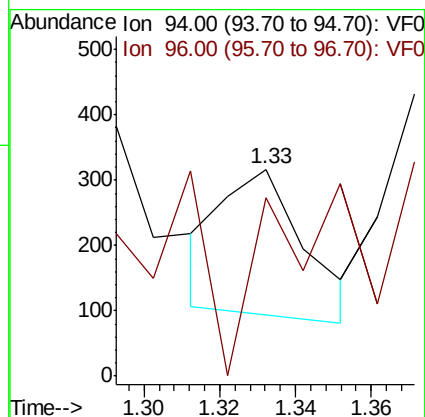
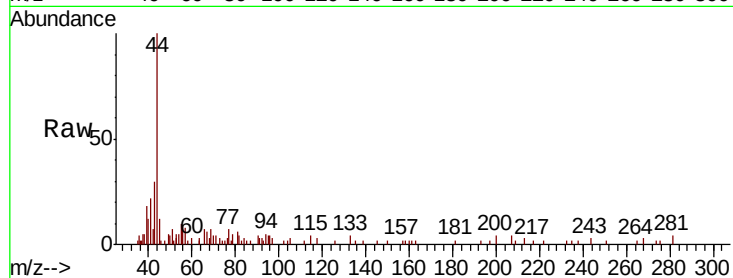
SU-02-092418-B

Tot Ion: 94 Resp: 331

Ion Ratio Lower Upper

94 100

96 86.4 73.9 110.9



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.69 min Scan# 209

Delta R.T. 0.01 min

Lab File: VF060351.D

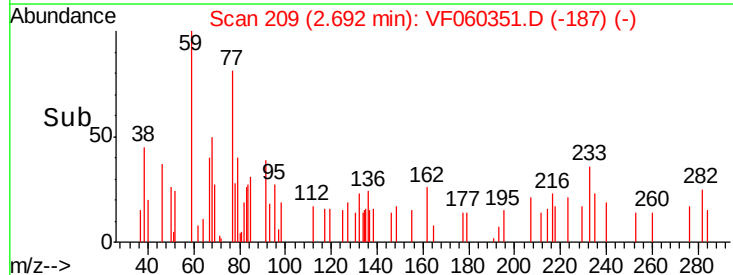
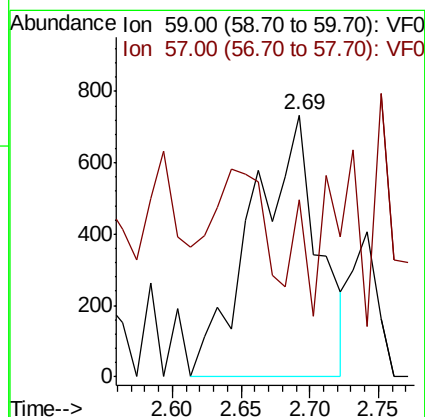
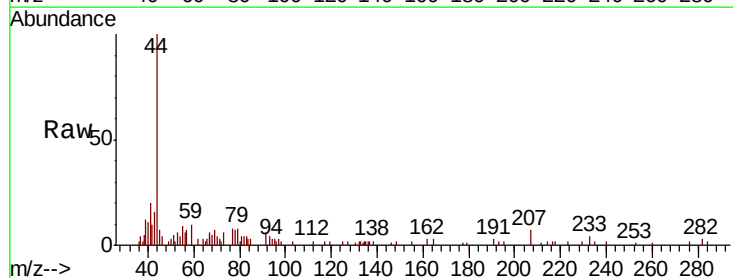
Acq: 26 Sep 2018 14:57

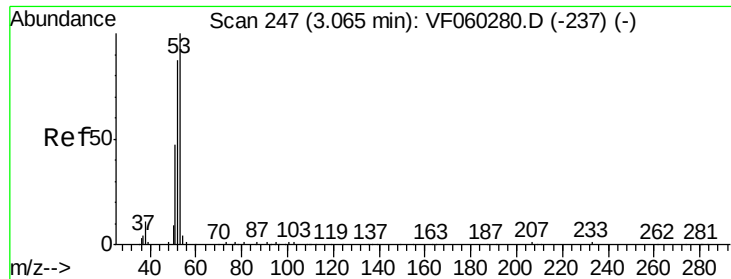
Tgt Ion: 59 Resp: 2430

Ion Ratio Lower Upper

59 100

57 67.8 12.4 18.6#





#15

Acrylonitrile

Concen: 2.360 ug/l

RT: 3.07 min Scan# 247

Delta R.T. 0.00 min

Lab File: VF060351.D

Acq: 26 Sep 2018 14:57

Instrument :

MSVOA_F

ClientSampleId :

SU-02-092418-B

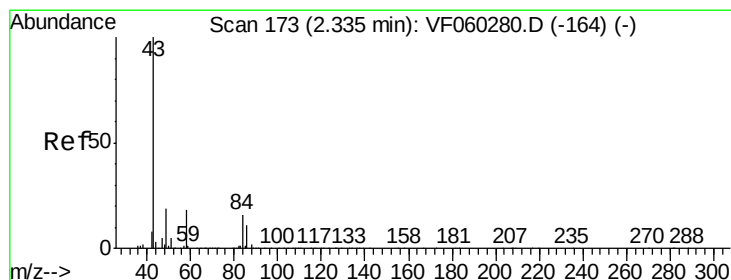
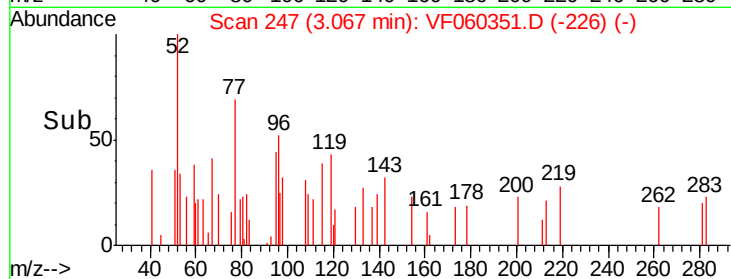
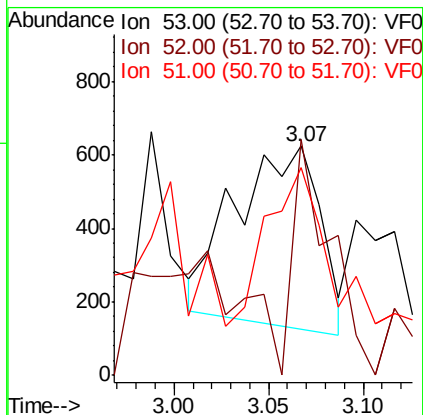
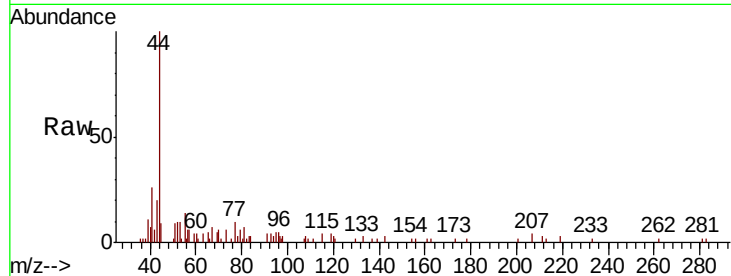
Tot Ion: 53 Resp: 1510

Ion Ratio Lower Upper

53 100

52 103.2 69.5 104.3

51 90.4 38.1 57.1#



#16

Acetone

Concen: 16.867 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060351.D

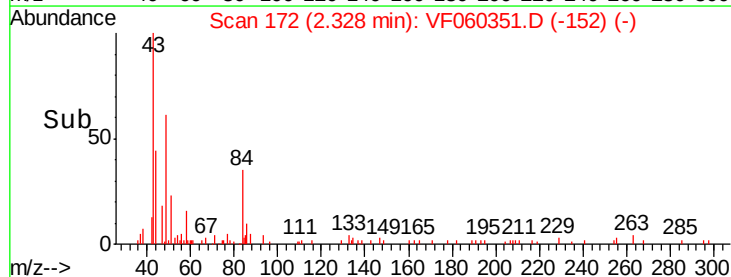
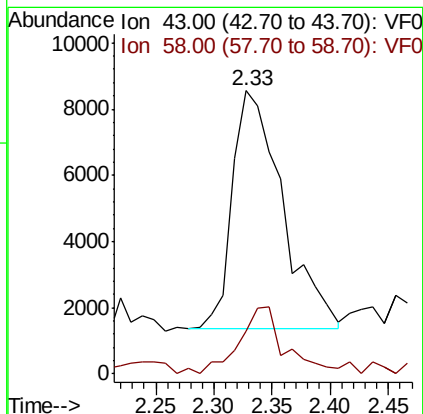
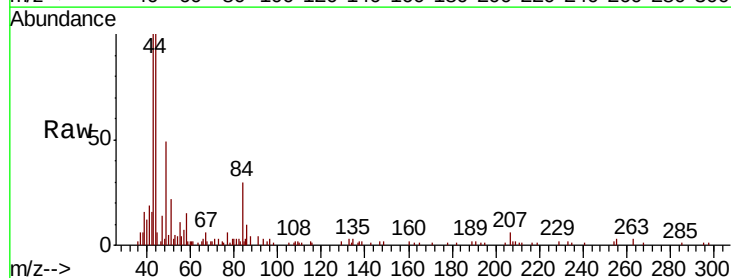
Acq: 26 Sep 2018 14:57

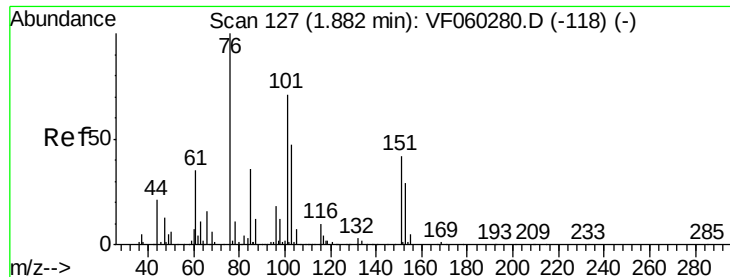
Tgt Ion: 43 Resp: 21522

Ion Ratio Lower Upper

43 100

58 15.2 14.5 21.7

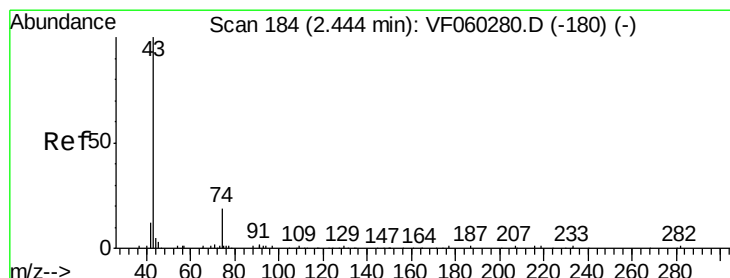
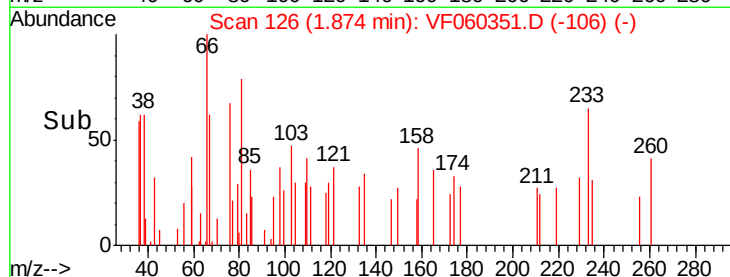
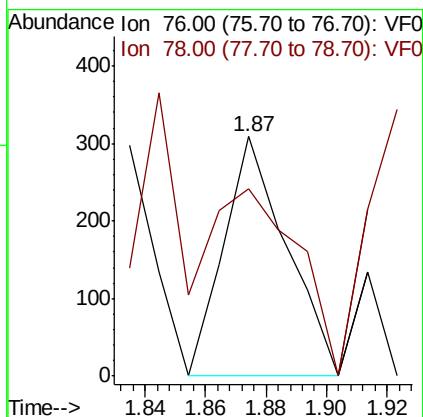
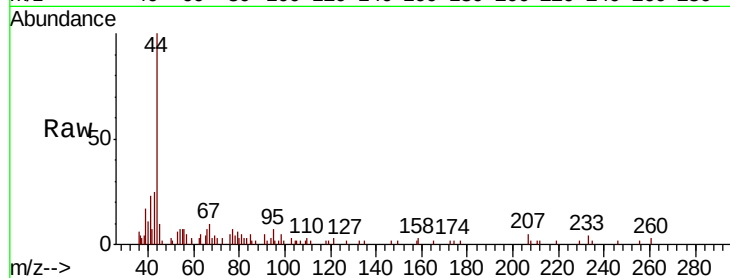




#17
Carbon Disulfide
Concen: Below Cal
RT: 1.87 min Scan# 126
Delta R.T. -0.01 min
Lab File: VF060351.D
Acq: 26 Sep 2018 14:57

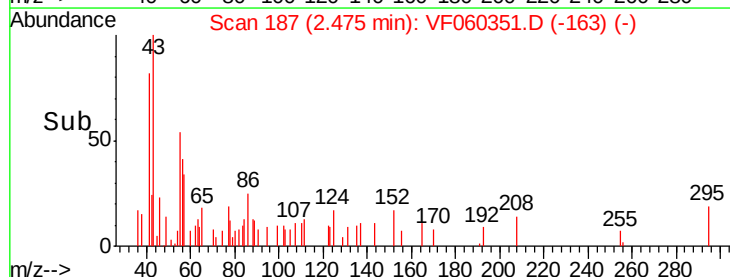
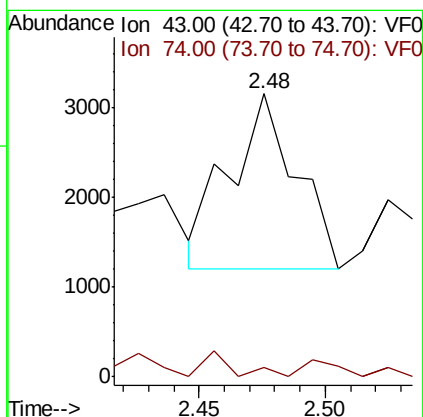
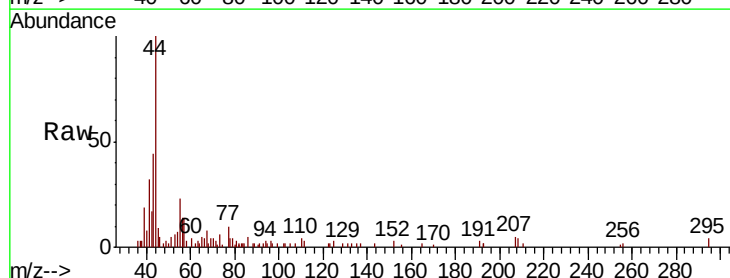
Instrument :
MSVOA_F
ClientSampleId :
SU-02-092418-B

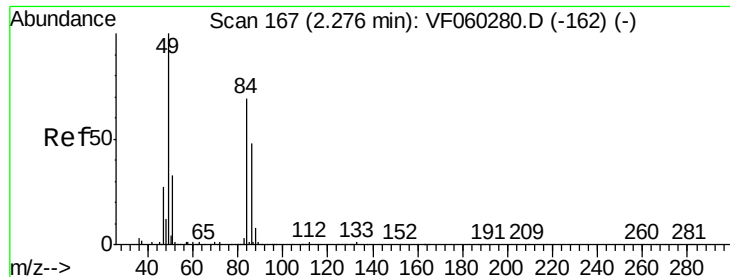
Tot Ion: 76 Resp: 447
Ion Ratio Lower Upper
76 100
78 78.3 9.4 14.0#



#18
Methyl Acetate
Concen: 1.686 ug/l
RT: 2.48 min Scan# 187
Delta R.T. 0.03 min
Lab File: VF060351.D
Acq: 26 Sep 2018 14:57

Tgt Ion: 43 Resp: 3583
Ion Ratio Lower Upper
43 100
74 3.2 12.7 19.1#

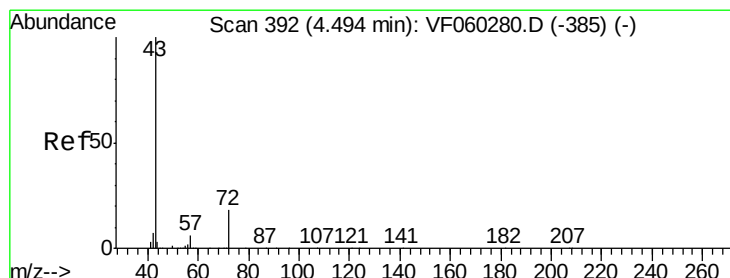
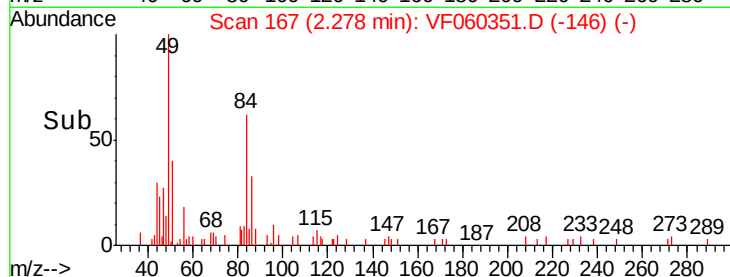
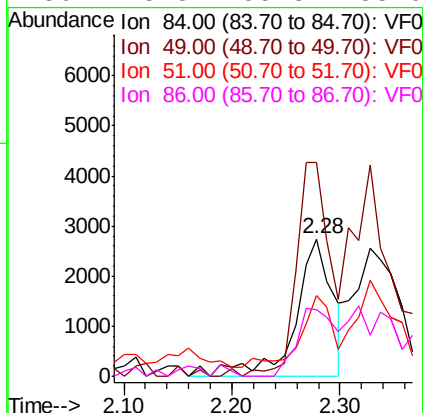
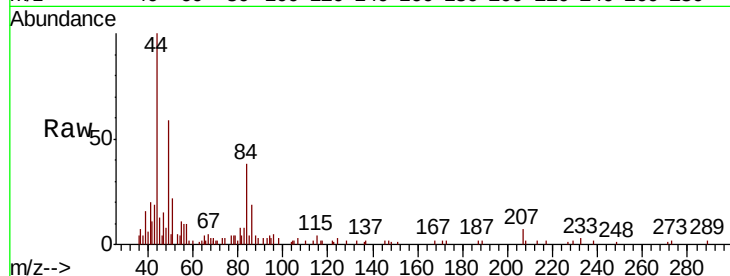




#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 167
Delta R.T. 0.00 min
Lab File: VF060351.D
Acq: 26 Sep 2018 14:57

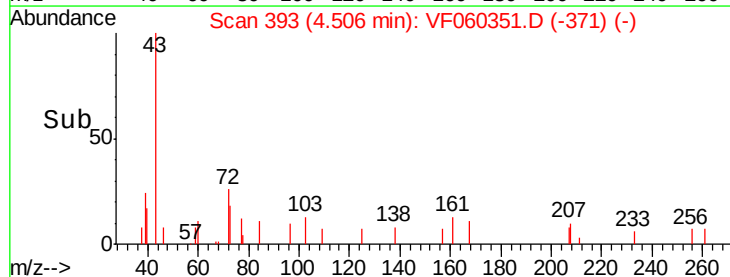
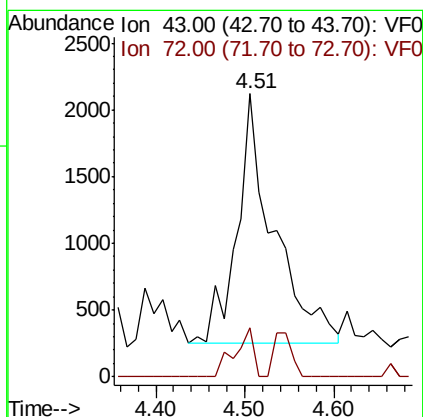
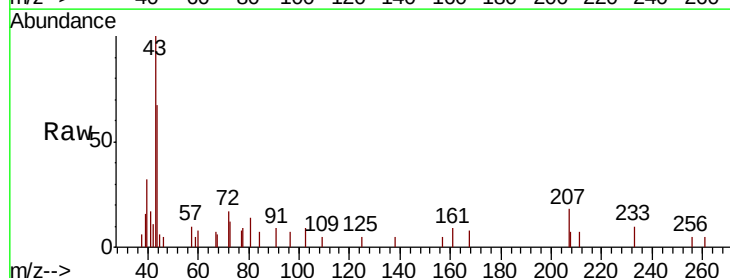
Instrument :
MSVOA_F
ClientSampleId :
SU-02-092418-B

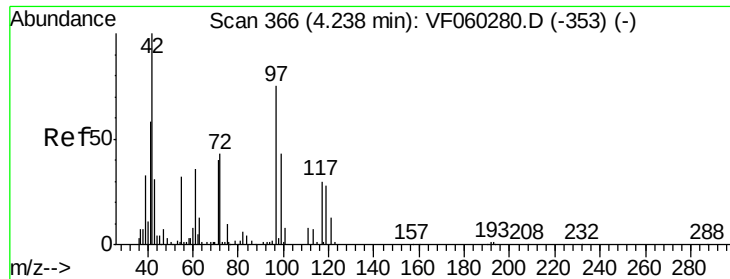
Tot Ion: 84 Resp: 6691
Ion Ratio Lower Upper
84 100
49 155.3 118.3 177.5
51 58.7 38.7 58.1#
86 48.8 55.8 83.6#



#25
2-Butanone
Concen: 3.116 ug/l
RT: 4.51 min Scan# 393
Delta R.T. 0.01 min
Lab File: VF060351.D
Acq: 26 Sep 2018 14:57

Tgt Ion: 43 Resp: 5352
Ion Ratio Lower Upper
43 100
72 29.3 16.2 24.2#

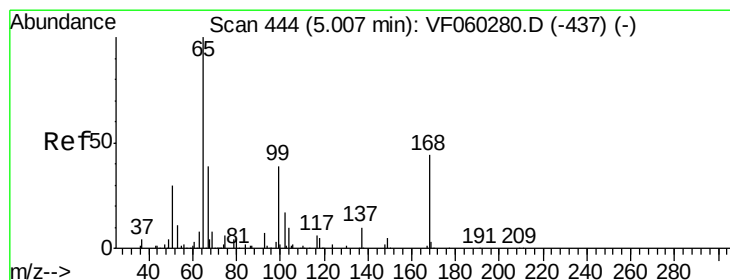
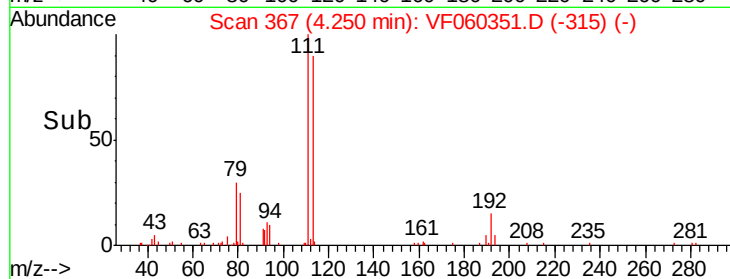
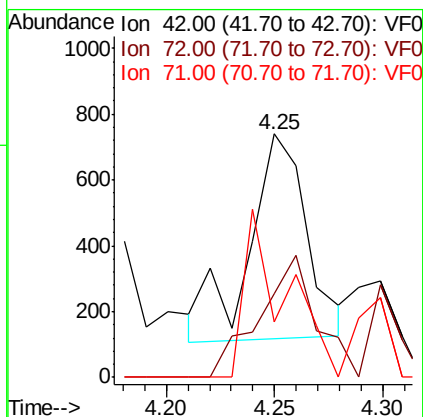
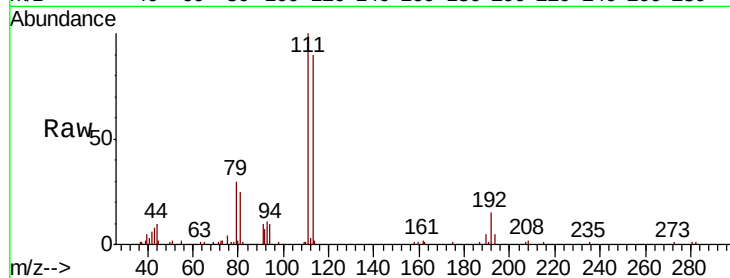




#29
Tetrahydrofuran
Concen: 1.844 ug/l
RT: 4.25 min Scan# 367
Delta R.T. 0.01 min
Lab File: VF060351.D
Acq: 26 Sep 2018 14:57

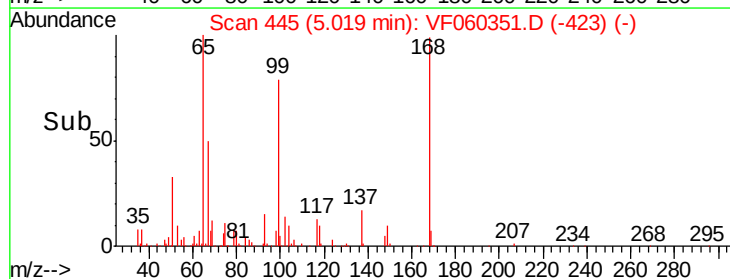
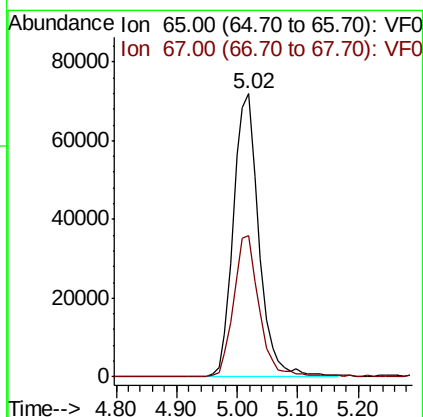
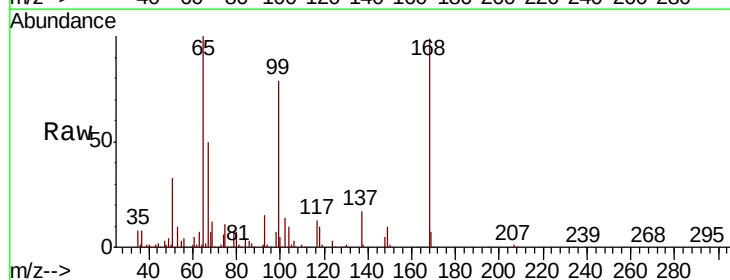
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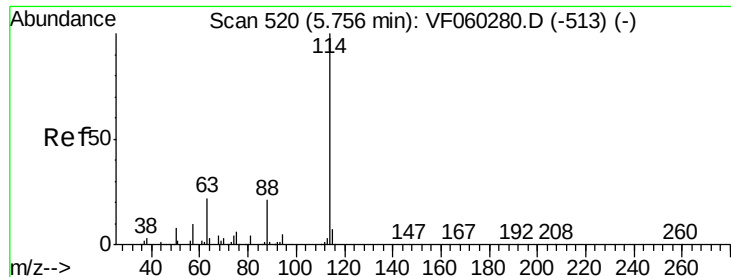
Tot Ion: 42 Resp: 1160
Ion Ratio Lower Upper
42 100
72 58.7 32.6 49.0#
71 58.5 32.7 49.1#



#33
1,2-Dichloroethane-d4
Concen: 46.609 ug/l
RT: 5.02 min Scan# 445
Delta R.T. 0.01 min
Lab File: VF060351.D
Acq: 26 Sep 2018 14:57

Tgt Ion: 65 Resp: 211181
Ion Ratio Lower Upper
65 100
67 49.8 0.0 94.4

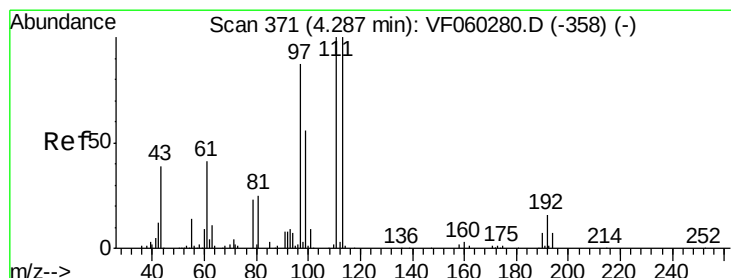
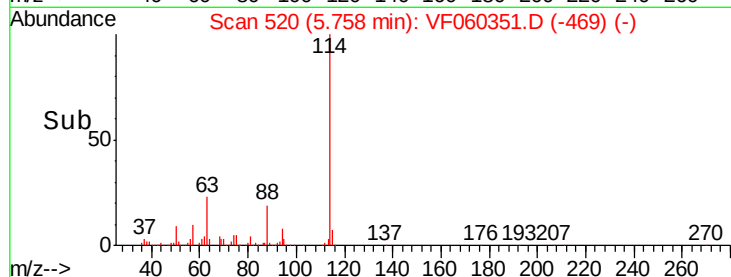
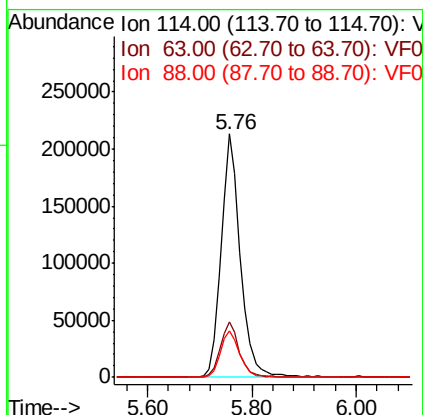
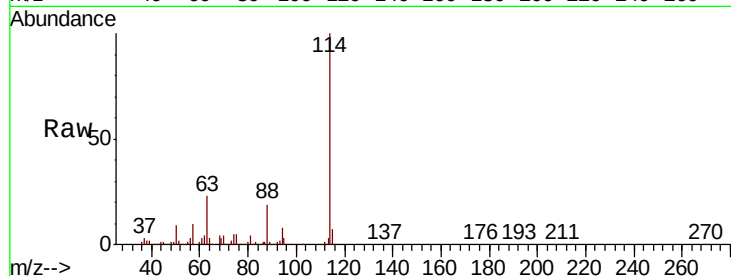




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 520
 Delta R.T. 0.00 min
 Lab File: VF060351.D
 Acq: 26 Sep 2018 14:57

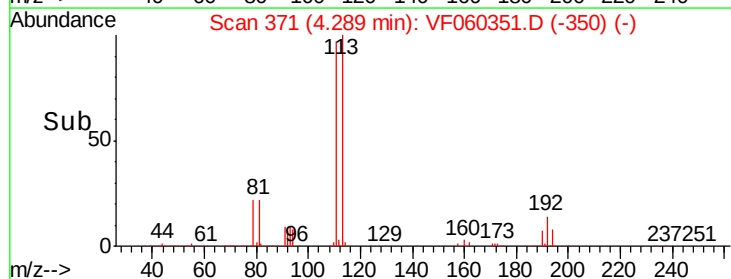
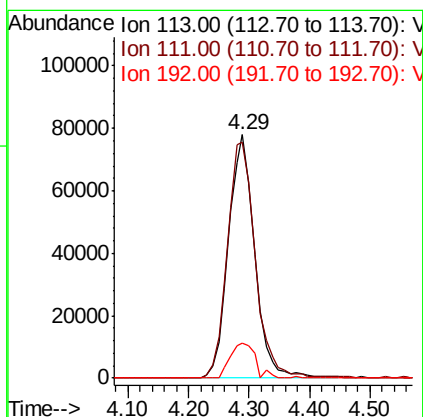
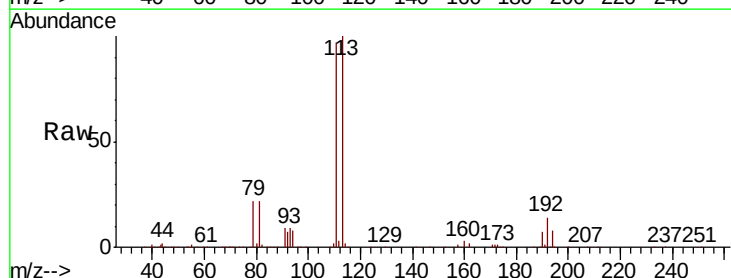
Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-092418-B

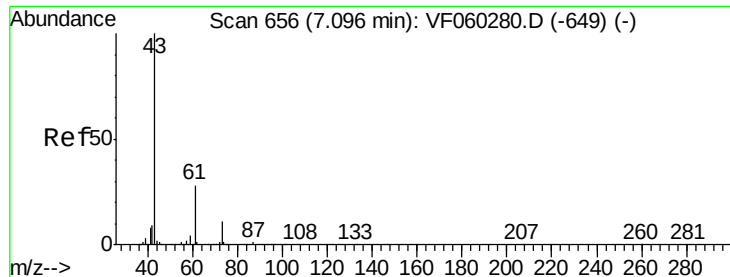
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	43.8
88	19.3	0.0	41.2



#35
 Dibromofluoromethane
 Concen: 48.578 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. 0.00 min
 Lab File: VF060351.D
 Acq: 26 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
113	100		
111	96.9	79.6	119.4
192	14.4	13.0	19.6





#43

Isopropyl Acetate

Concen: 1.636 ug/l

RT: 7.11 min Scan# 657

Delta R.T. 0.01 min

Lab File: VF060351.D

Acq: 26 Sep 2018 14:57

Instrument :

MSVOA_F

ClientSampleId :

SU-02-092418-B

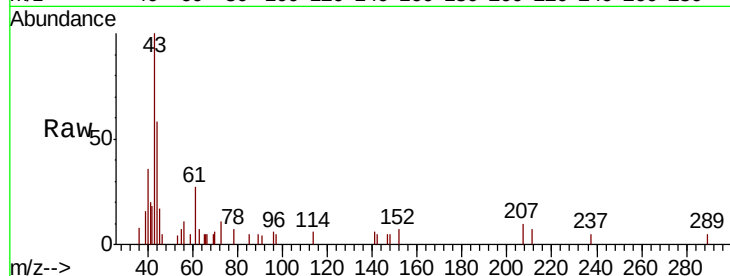
Tot Ion: 43 Resp: 5639

Ion Ratio Lower Upper

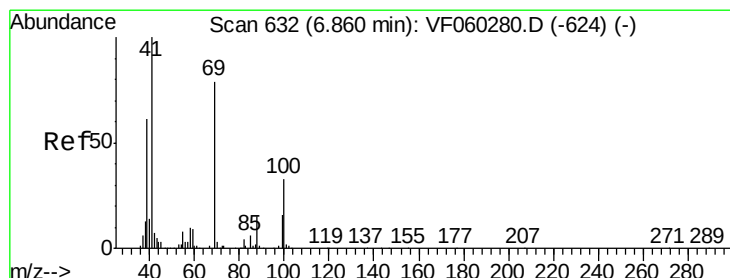
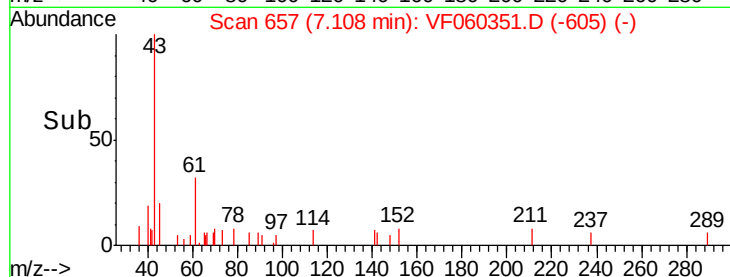
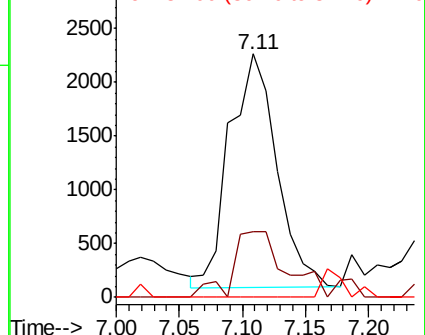
43 100

61 26.8 22.4 33.6

87 0.0 0.6 0.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0



#48

Methyl methacrylate

Concen: 1.232 ug/l

RT: 6.87 min Scan# 633

Delta R.T. 0.01 min

Lab File: VF060351.D

Acq: 26 Sep 2018 14:57

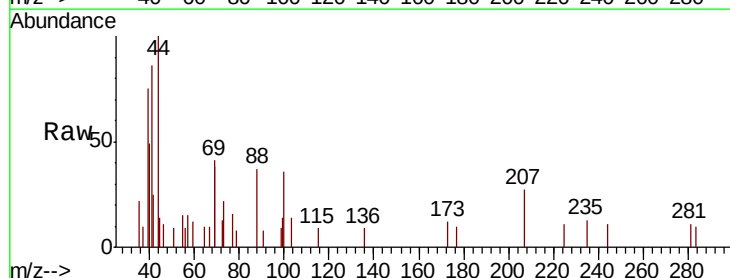
Tgt Ion: 41 Resp: 2980

Ion Ratio Lower Upper

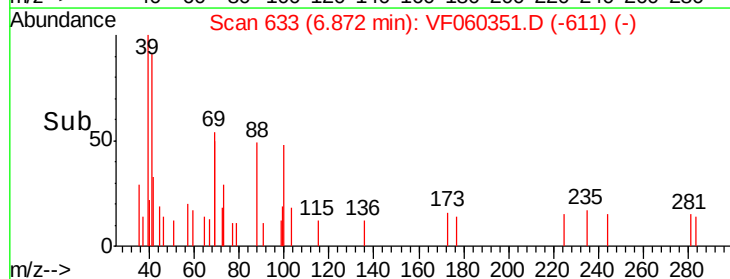
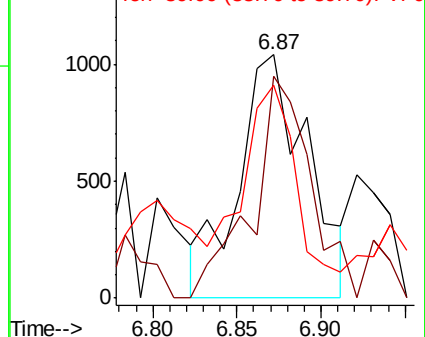
41 100

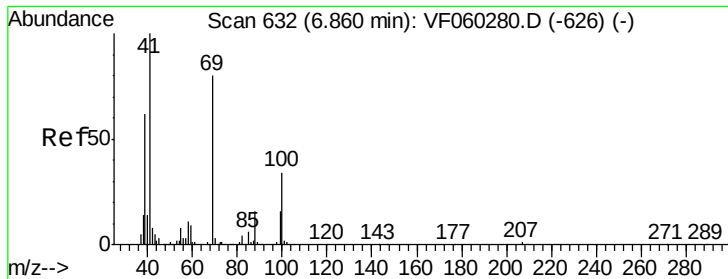
69 90.9 62.6 94.0

39 87.3 49.1 73.7#



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





#49

1,4-Dioxane

Concen: 29.605 ug/l

RT: 6.87 min Scan# 633

Delta R.T. 0.01 min

Lab File: VF060351.D

Acq: 26 Sep 2018 14:57

Instrument :

MSVOA_F

ClientSampleId :

SU-02-092418-B

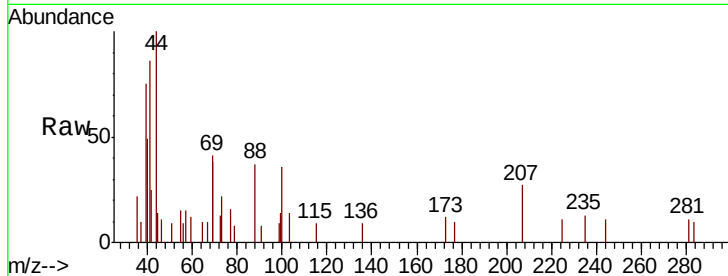
Tot Ion: 88 Resp: 640

Ion Ratio Lower Upper

88 100

43 0.0 40.2 60.4#

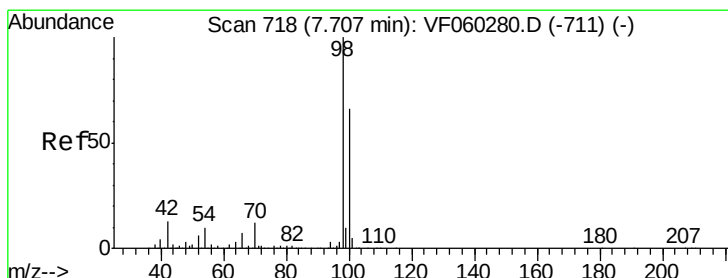
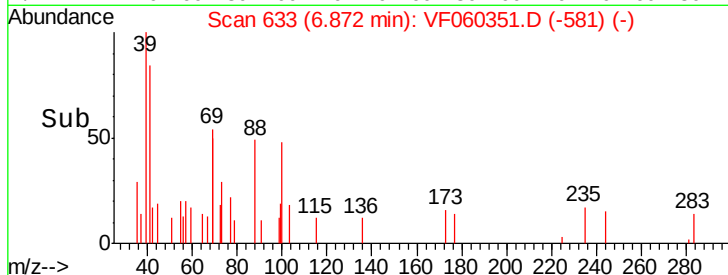
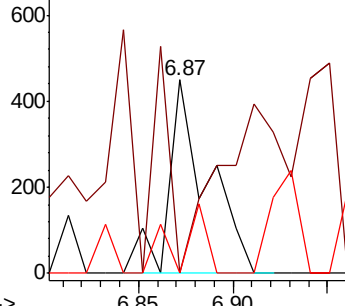
58 0.0 56.7 85.1#



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: 39.277 ug/l

RT: 7.71 min Scan# 718

Delta R.T. 0.00 min

Lab File: VF060351.D

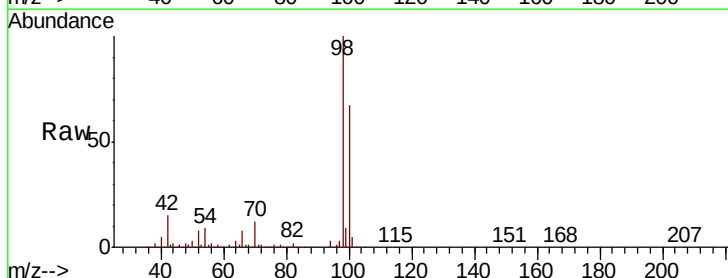
Acq: 26 Sep 2018 14:57

Tgt Ion: 98 Resp: 494679

Ion Ratio Lower Upper

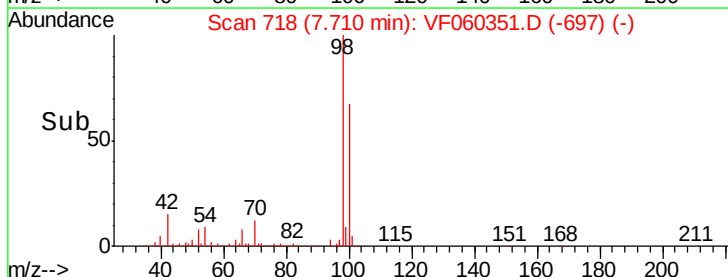
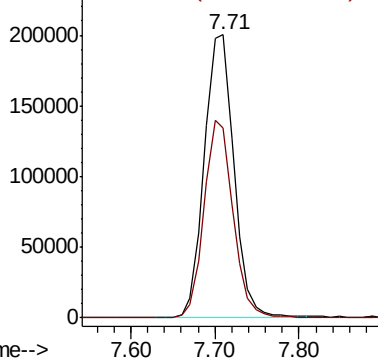
98 100

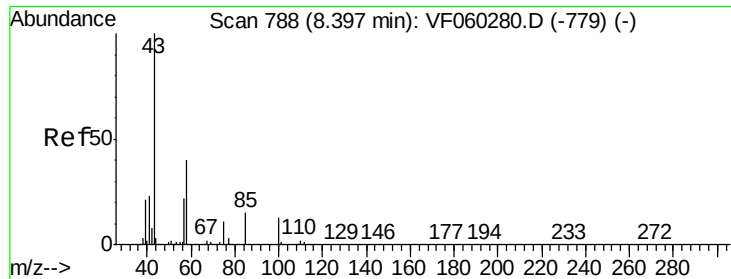
100 67.3 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

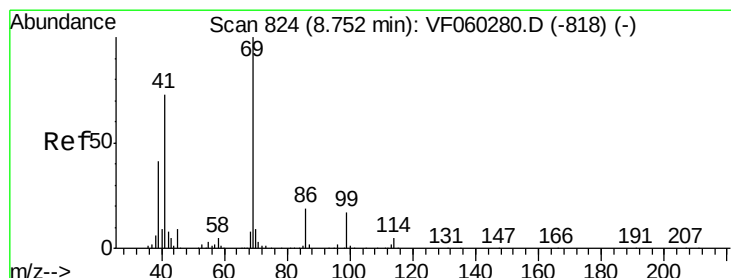
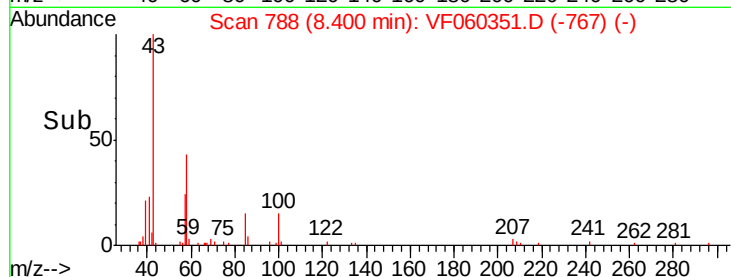
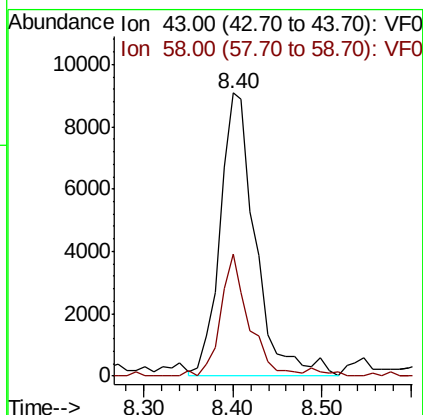
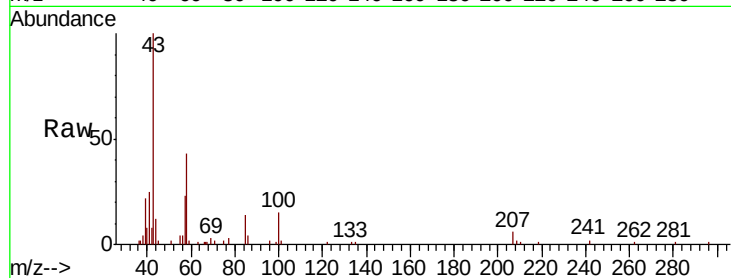




#51
 4-Methyl-2-Pentanone
 Concen: 9.532 ug/l
 RT: 8.40 min Scan# 788
 Delta R.T. 0.00 min
 Lab File: VF060351.D
 Acq: 26 Sep 2018 14:57

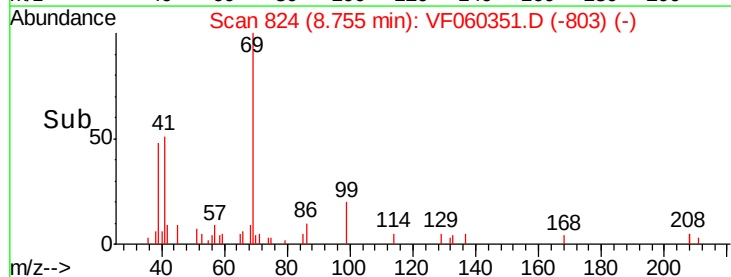
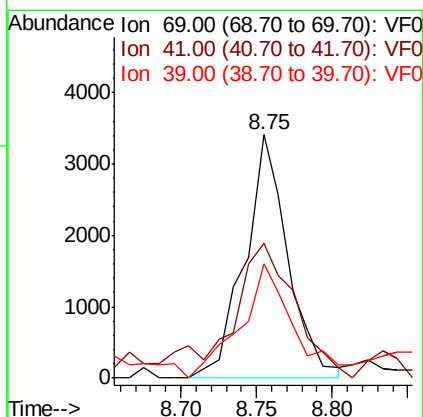
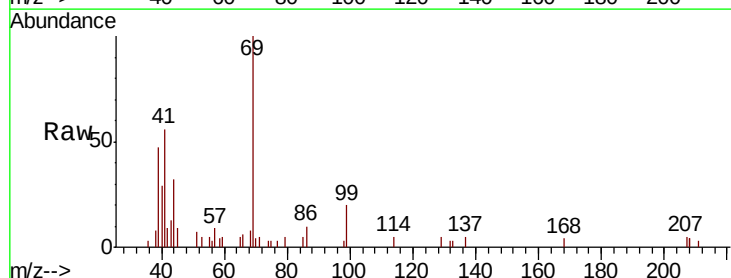
Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-092418-B

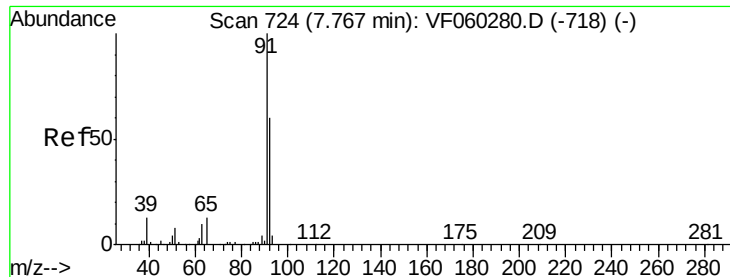
Tot Ion: 43 Resp: 25324
 Ion Ratio Lower Upper
 43 100
 58 43.1 31.8 47.8



#56
 Ethyl methacrylate
 Concen: 1.916 ug/l
 RT: 8.75 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: VF060351.D
 Acq: 26 Sep 2018 14:57

Tgt Ion: 69 Resp: 6817
 Ion Ratio Lower Upper
 69 100
 41 55.5 59.4 89.2#
 39 46.8 33.5 50.3

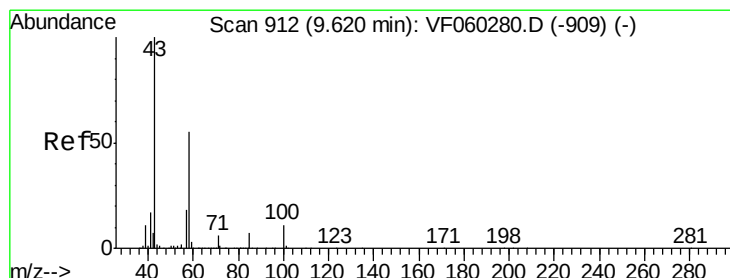
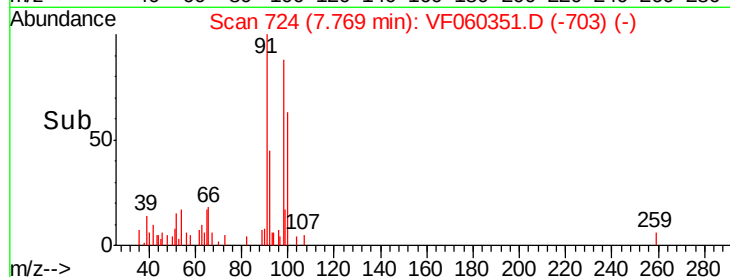
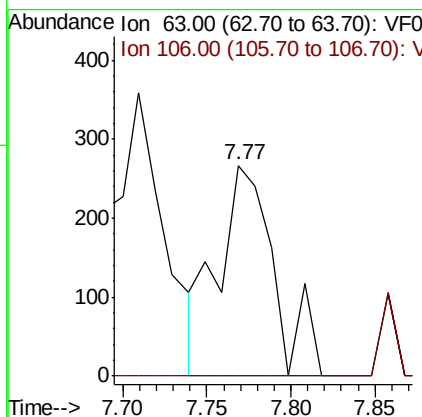
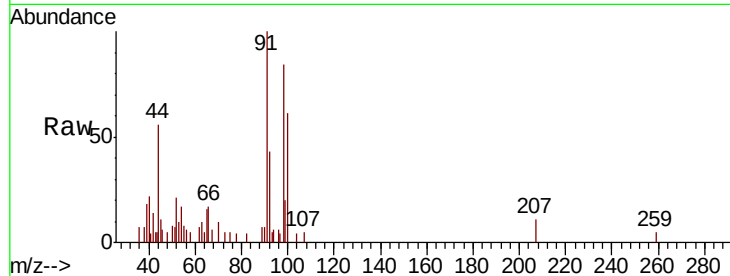




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.952 ug/l
 RT: 7.77 min Scan# 724
 Delta R.T. 0.00 min
 Lab File: VF060351.D
 Acq: 26 Sep 2018 14:57

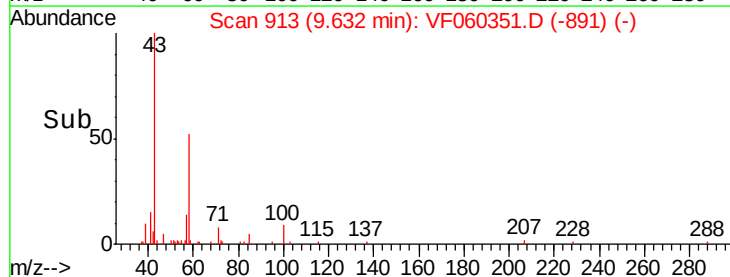
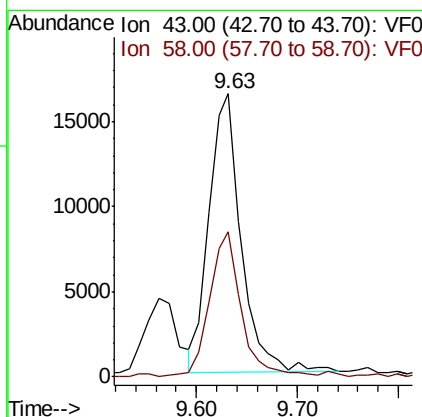
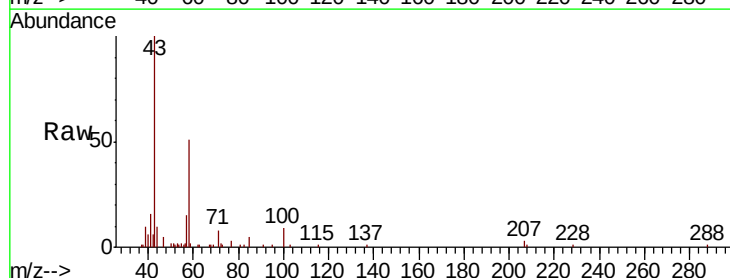
Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-092418-B

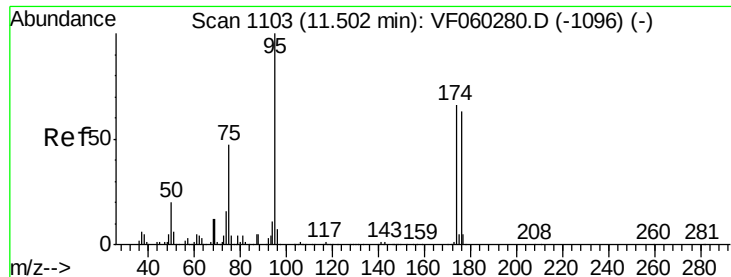
Tot Ion: 63 Resp: 614
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 19.291 ug/l
 RT: 9.63 min Scan# 913
 Delta R.T. 0.01 min
 Lab File: VF060351.D
 Acq: 26 Sep 2018 14:57

Tgt Ion: 43 Resp: 36492
 Ion Ratio Lower Upper
 43 100
 58 51.1 25.9 77.6





#62

4-Bromofluorobenzene

Concen: 38.173 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VF060351.D

Acq: 26 Sep 2018 14:57

Instrument :

MSVOA_F

ClientSampleId :

SU-02-092418-B

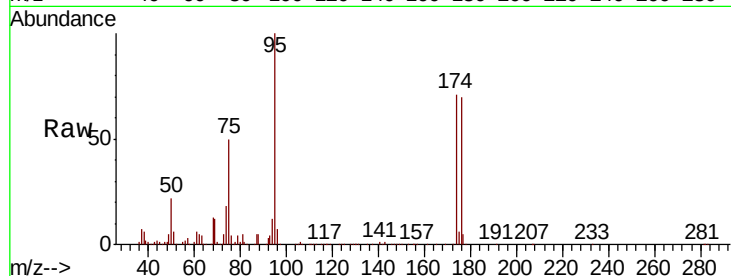
Tot Ion: 95 Resp: 207824

Ion Ratio Lower Upper

95 100

174 71.2 0.0 131.2

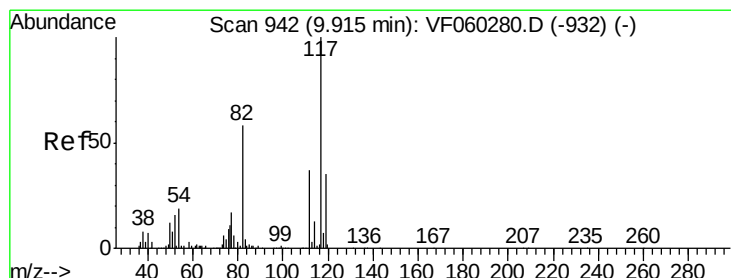
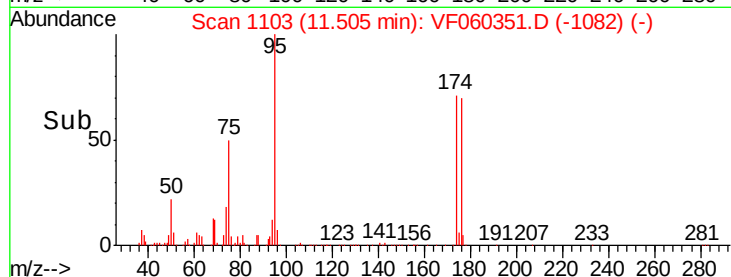
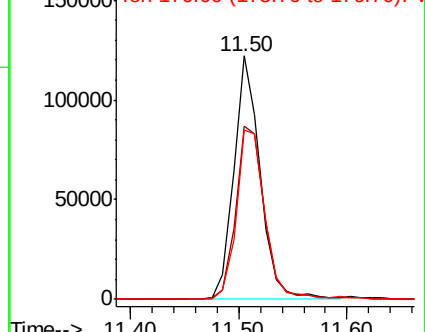
176 69.6 0.0 126.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.00 min

Lab File: VF060351.D

Acq: 26 Sep 2018 14:57

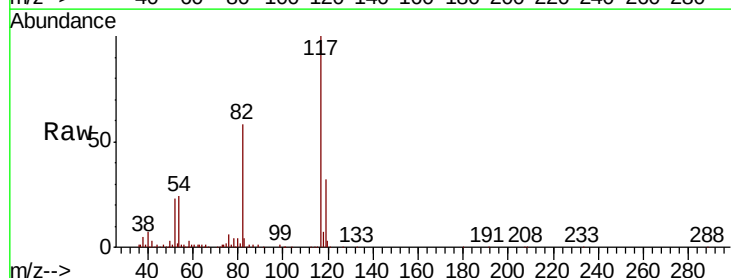
Tgt Ion: 117 Resp: 445739

Ion Ratio Lower Upper

117 100

82 57.9 46.2 69.2

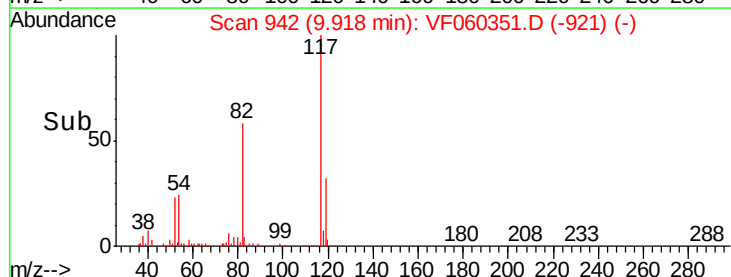
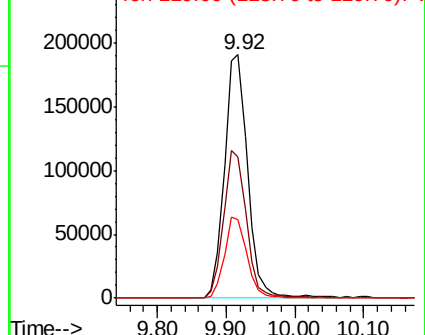
119 32.0 27.8 41.6

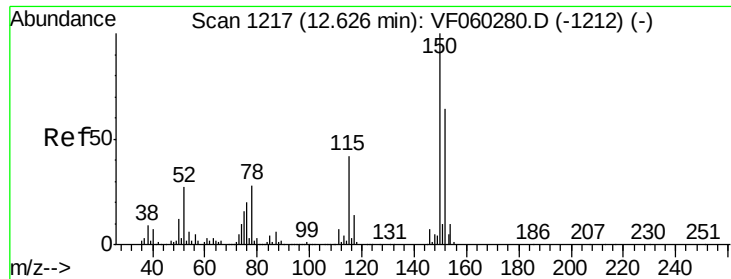


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

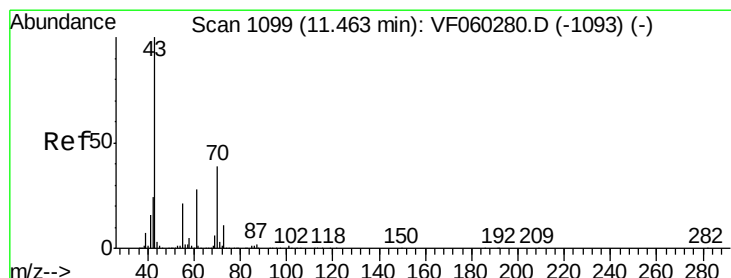
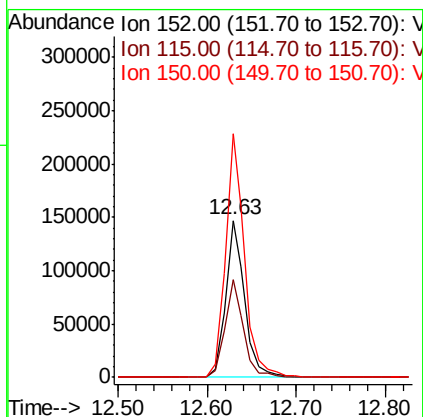
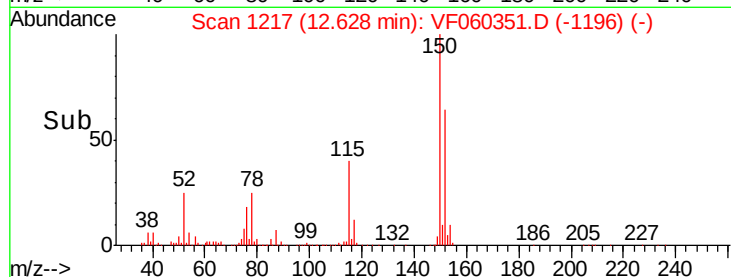
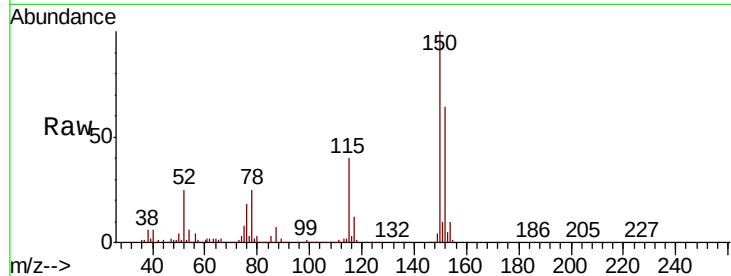




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.63 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VF060351.D
 Acq: 26 Sep 2018 14:57

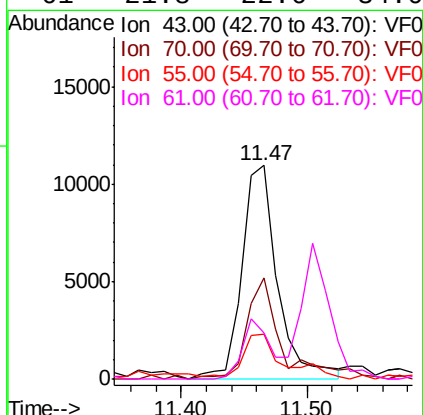
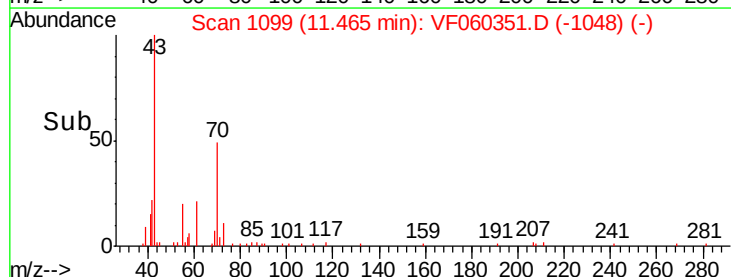
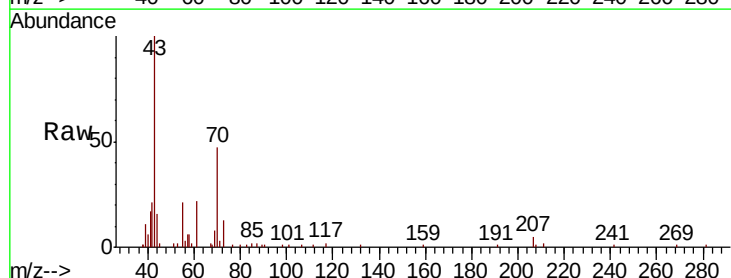
Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-092418-B

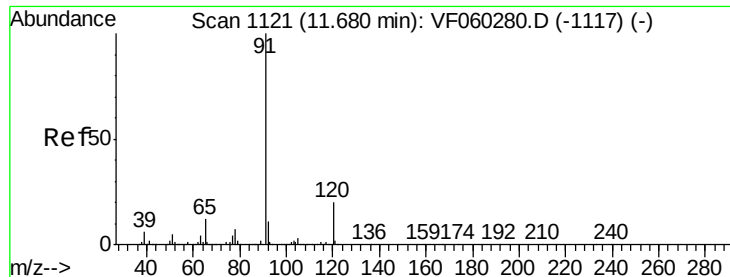
Tot Ion	Ratio	Lower	Upper
152	100		
115	62.8	32.6	97.8
150	155.5	0.0	314.2



#74
 N-ethyl acetate
 Concen: 5.111 ug/l
 RT: 11.47 min Scan# 1099
 Delta R.T. 0.00 min
 Lab File: VF060351.D
 Acq: 26 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
43	100		
70	47.2	31.4	47.2#
55	20.9	16.8	25.2
61	21.8	22.6	34.0#





#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF060351.D

Acq: 26 Sep 2018 14:57

Instrument :

MSVOA_F

ClientSampleId :

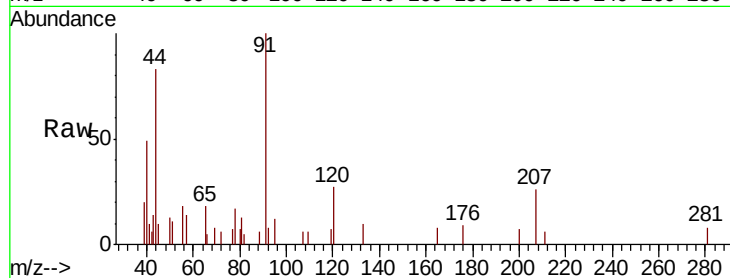
SU-02-092418-B

Tot Ion: 91 Resp: 3403

Ion Ratio Lower Upper

91 100

120 26.7 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VF060280.D (-1117) (-)

Ion 120.00 (119.70 to 120.70): VF060280.D (-1117) (-)

11.68

2000

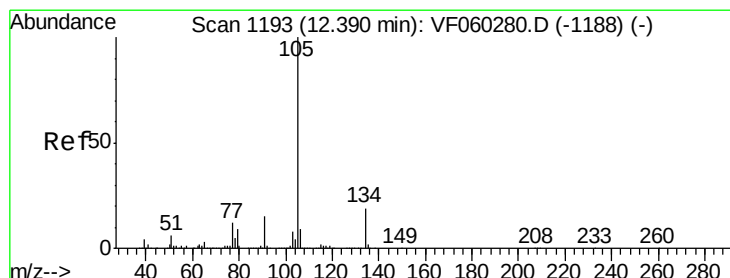
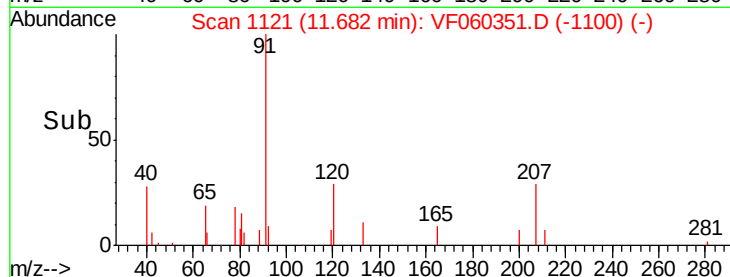
1500

1000

500

0

Time--> 11.60 11.65 11.70 11.75



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060351.D

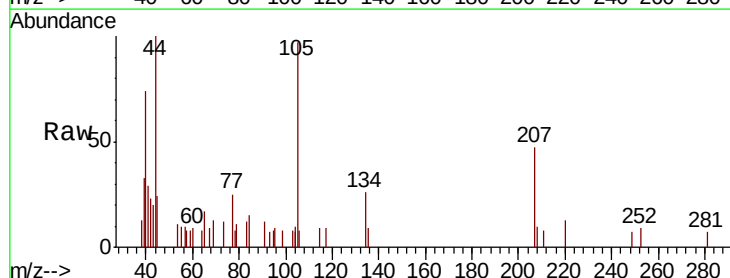
Acq: 26 Sep 2018 14:57

Tgt Ion: 105 Resp: 2203

Ion Ratio Lower Upper

105 100

134 26.7 9.6 28.6



Abundance Ion 105.00 (104.70 to 105.70): VF060280.D (-1188) (-)

Ion 134.00 (133.70 to 134.70): VF060280.D (-1188) (-)

12.38

2000

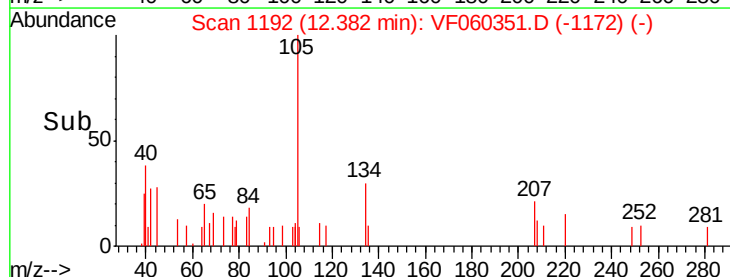
1500

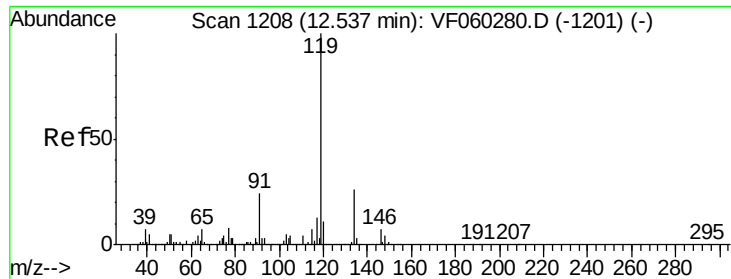
1000

500

0

Time--> 12.30 12.35 12.40 12.45

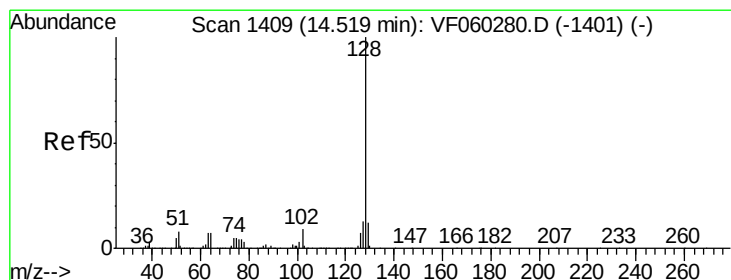
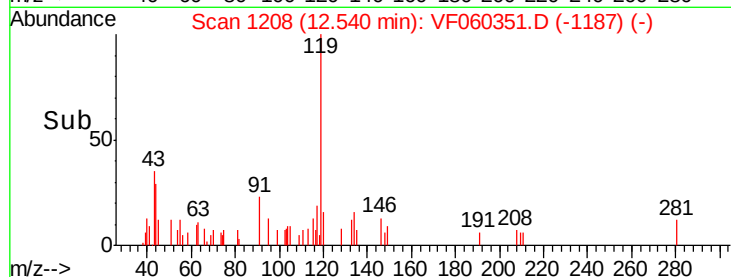
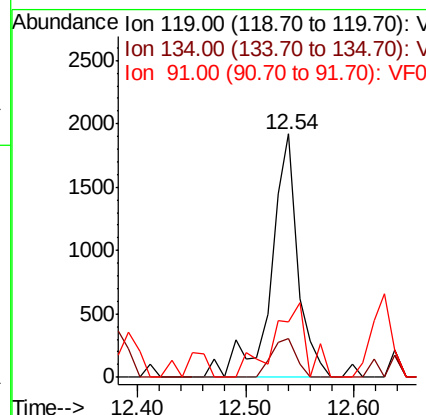
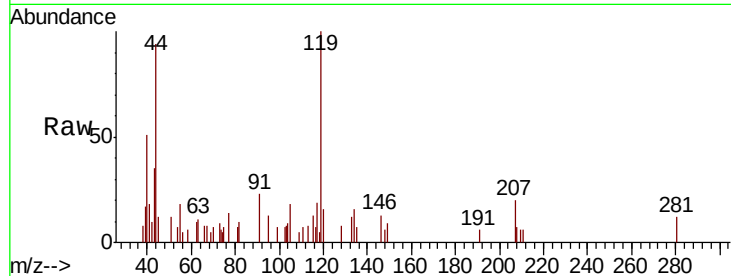




#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.54 min Scan# 1208
 Delta R.T. 0.00 min
 Lab File: VF060351.D
 Acq: 26 Sep 2018 14:57

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-092418-B

Tot Ion	Ratio	Lower	Upper
119	100		
134	16.1	12.9	38.7
91	23.0	11.9	35.7



#95
 Naphthalene
 Concen: 4.681 ug/l
 RT: 14.52 min Scan# 1409
 Delta R.T. 0.00 min
 Lab File: VF060351.D
 Acq: 26 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.2	10.1	15.1
129	9.4	9.8	14.8#

