

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092118\
 Data File : VF060320.D
 Acq On : 21 Sep 2018 18:51
 Operator : VA/AP
 Sample : J4771-15RE
 Misc : 6.17/5mL/MSVOA F/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 PL-02-0920-18-CRE

Quant Time: Sep 22 02:29:06 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	5.03	168	195666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	337243	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	225380	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	81696	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	140739	53.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.84%	
35) Dibromofluoromethane	4.28	113	149116	49.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.20%	
50) Toluene-d8	7.70	98	290714	37.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.26%	
62) 4-Bromofluorobenzene	11.51	95	100740	29.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	59.54%	

Target Compounds

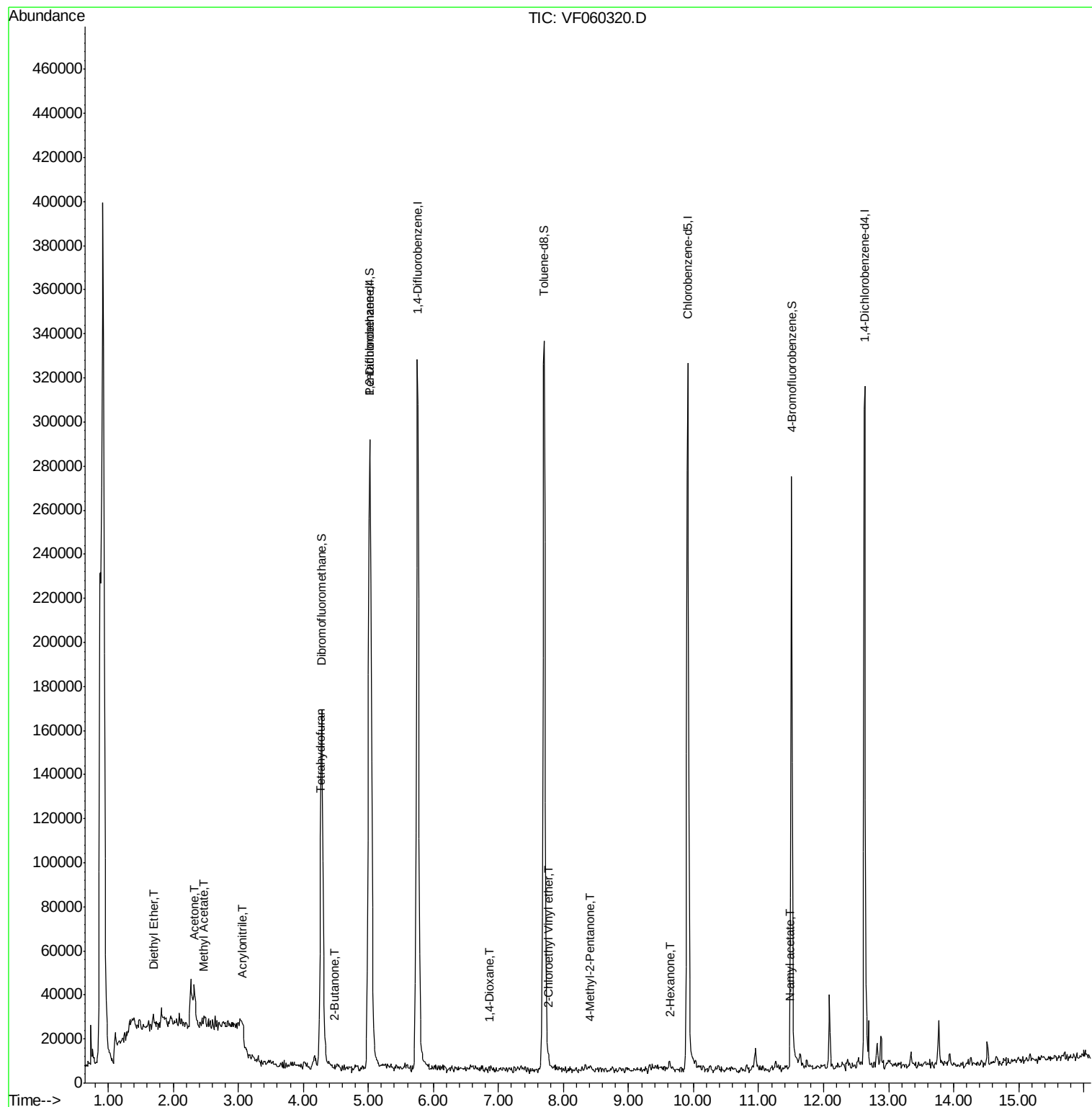
						Qvalue
2) Dichlorodifluoromethane	1.00	85	344	Below Cal	#	40
5) Bromomethane	1.33	94	891	Below Cal	#	57
8) Diethyl Ether	1.70	74	2586	3.070	ug/l	96
11) Tert butyl alcohol	2.67	59	322	Below Cal	#	1
13) Acrolein	2.00	56	518	Below Cal		91
15) Acrylonitrile	3.07	53	866	2.327	ug/l #	81
16) Acetone	2.33	43	7083	9.546	ug/l #	92
17) Carbon Disulfide	1.87	76	303	Below Cal	#	1
18) Methyl Acetate	2.48	43	4346	3.516	ug/l #	74
20) Methylene Chloride	2.27	84	7445	Below Cal		89
25) 2-Butanone	4.48	43	2569	2.572	ug/l #	56
29) Tetrahydrofuran	4.25	42	1366	3.735	ug/l #	71
49) 1,4-Dioxane	6.86	88	128	9.525	ug/l #	74
51) 4-Methyl-2-Pentanone	8.41	43	3547	2.148	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.77	63	412	2.107	ug/l	100
59) 2-Hexanone	9.63	43	4479	3.809	ug/l	88
74) N-amyl acetate	11.47	43	1690	1.081	ug/l #	47
78) n-propylbenzene	11.68	91	1082	Below Cal		91
85) sec-Butylbenzene	12.38	105	916	Below Cal		80
86) p-Isopropyltoluene	12.53	119	1394	Below Cal		90
89) n-Butylbenzene	12.93	91	1618	Below Cal	#	61

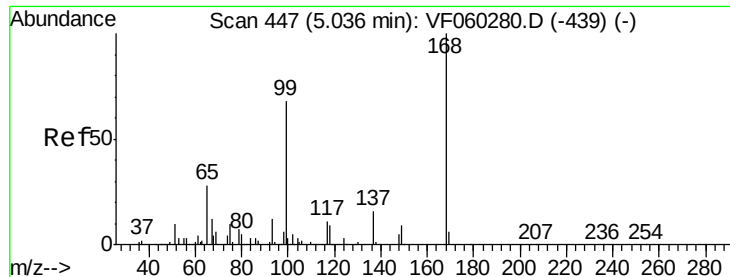
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 20 02:58:42 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.00 min

Lab File: VF060320.D

Acq: 21 Sep 2018 18:51

Instrument :

MSVOA_F

ClientSampleId :

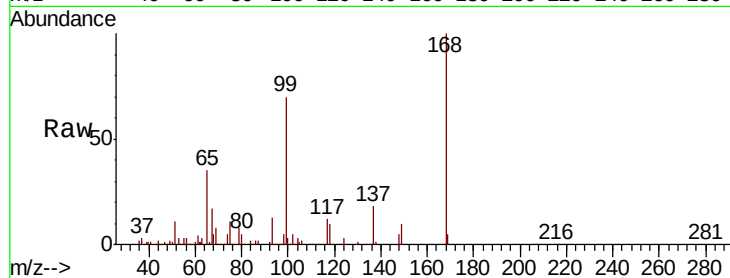
PL-02-0920-18-CRE

Tot Ion:168 Resp: 195666

Ion Ratio Lower Upper

168 100

99 70.0 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

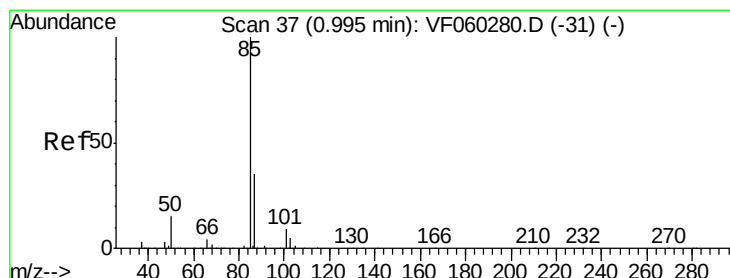
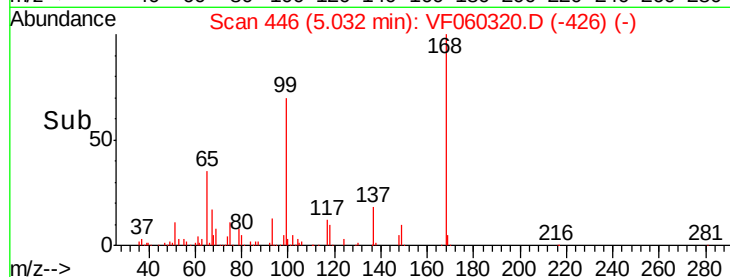
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 37

Delta R.T. 0.01 min

Lab File: VF060320.D

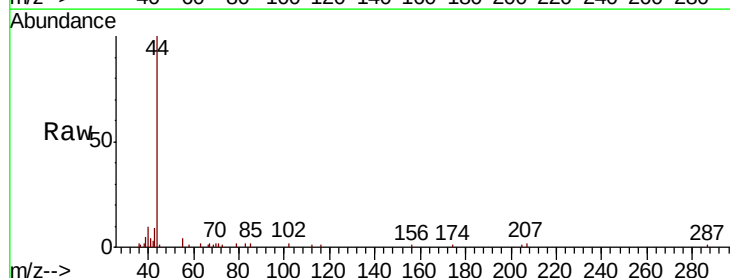
Acq: 21 Sep 2018 18:51

Tgt Ion: 85 Resp: 344

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

1.00

200

150

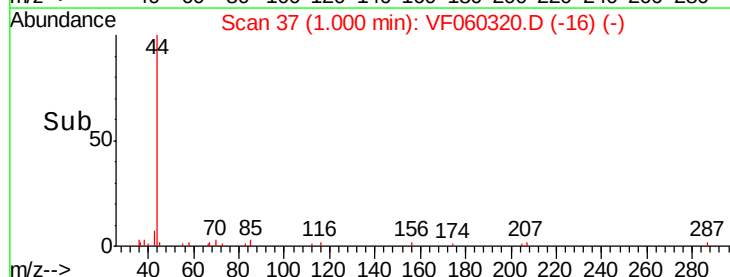
100

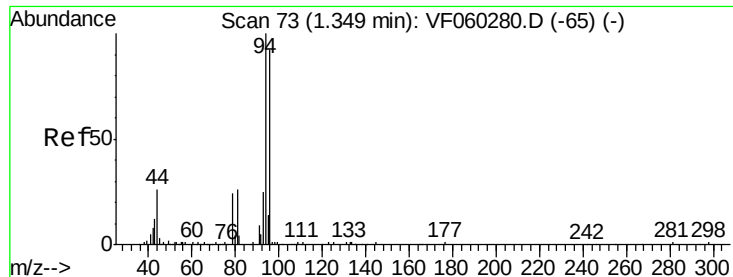
50

0

Time-->

0.95 1.00 1.05





#5

Bromomethane

Concen: Below Cal

RT: 1.33 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF060320.D

Acq: 21 Sep 2018 18:51

Instrument :

MSVOA_F

ClientSampleId :

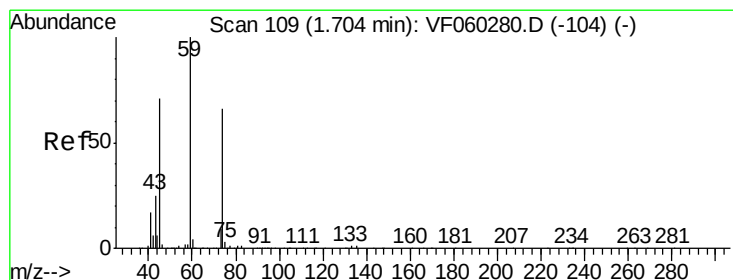
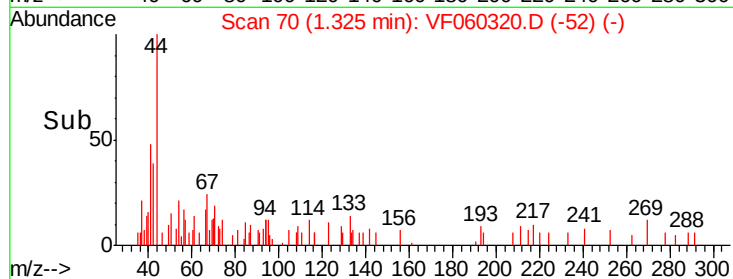
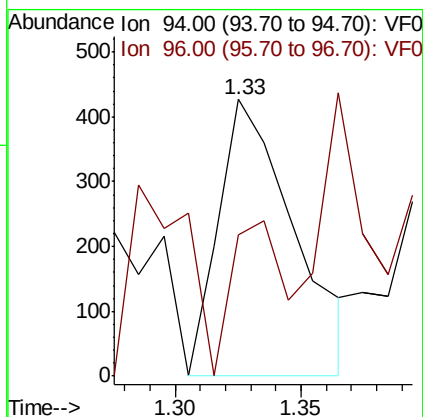
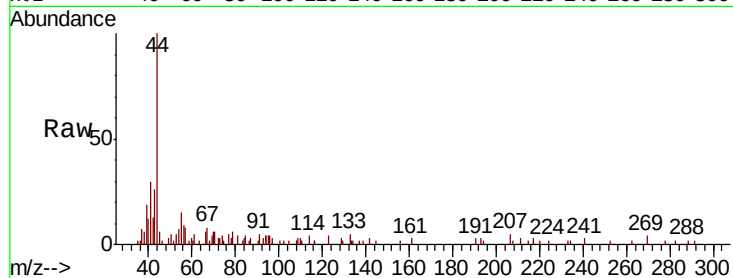
PL-02-0920-18-CRE

Tot Ion: 94 Resp: 891

Ion Ratio Lower Upper

94 100

96 51.1 73.9 110.9#



#8

Diethyl Ether

Concen: 3.070 ug/l

RT: 1.70 min Scan# 108

Delta R.T. -0.00 min

Lab File: VF060320.D

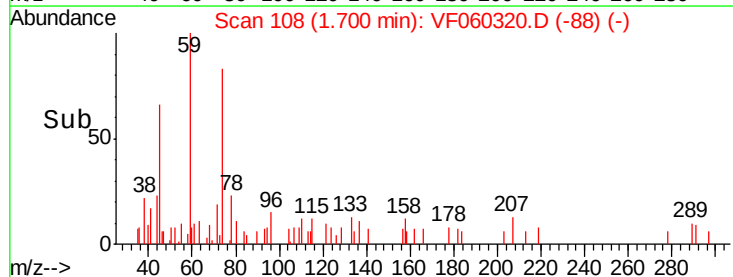
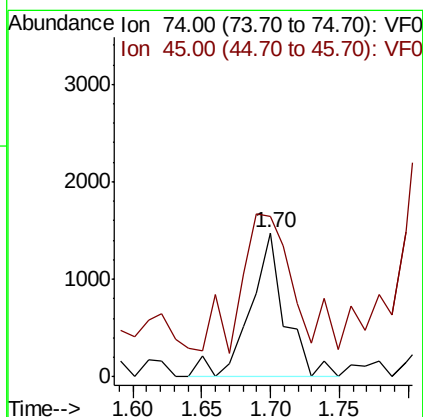
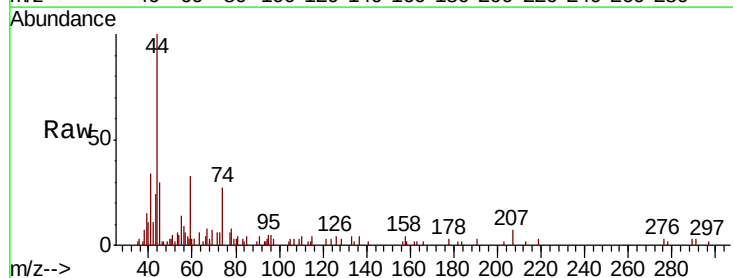
Acq: 21 Sep 2018 18:51

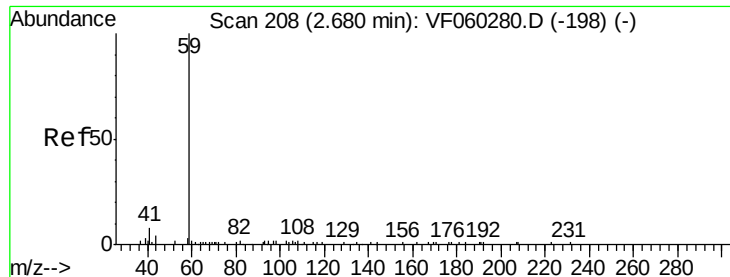
Tgt Ion: 74 Resp: 2586

Ion Ratio Lower Upper

74 100

45 111.5 53.9 161.7



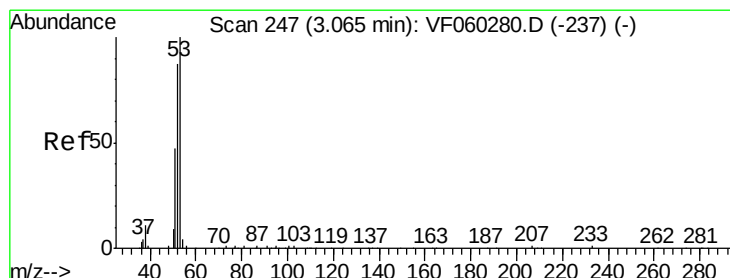
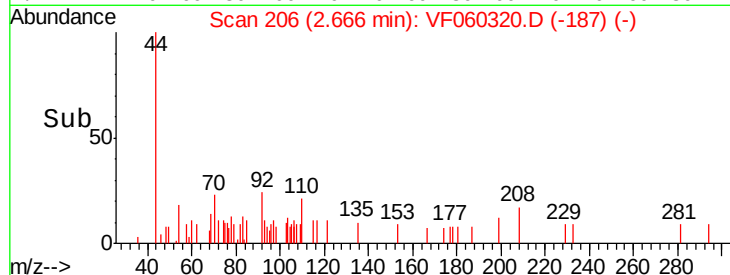
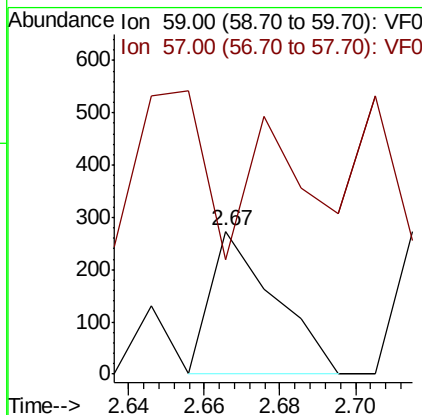
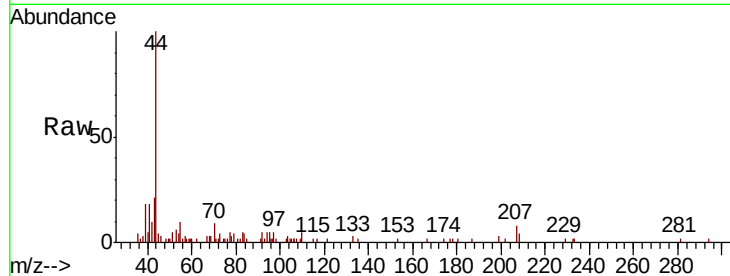


#11

Tert butyl alcohol
Concen: Below Cal
RT: 2.67 min Scan# 206
Delta R.T. -0.01 min
Lab File: VF060320.D
Acq: 21 Sep 2018 18:51

Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-CRE

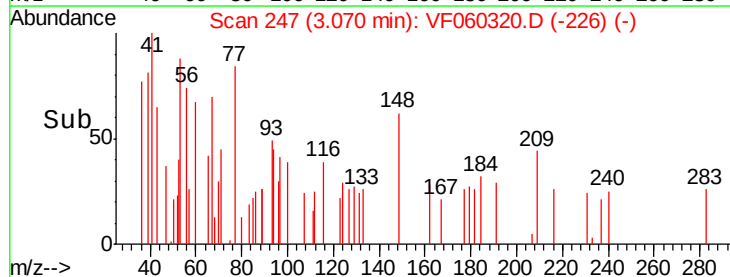
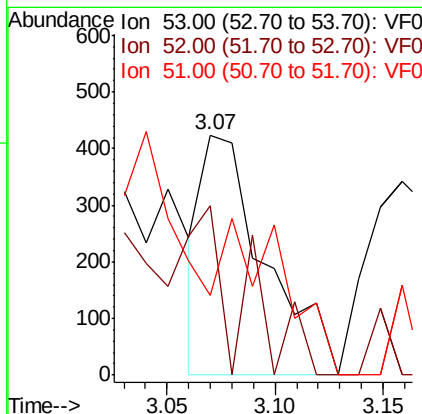
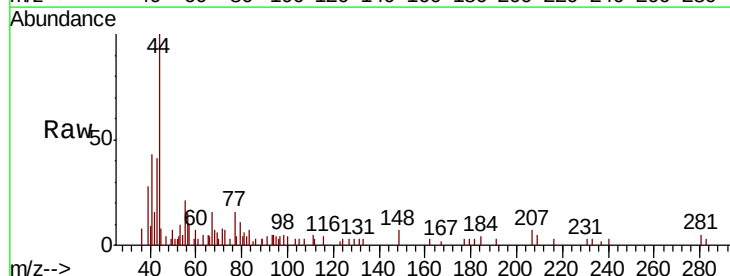
Tot Ion: 59 Resp: 322
Ion Ratio Lower Upper
59 100
57 79.6 12.4 18.6#

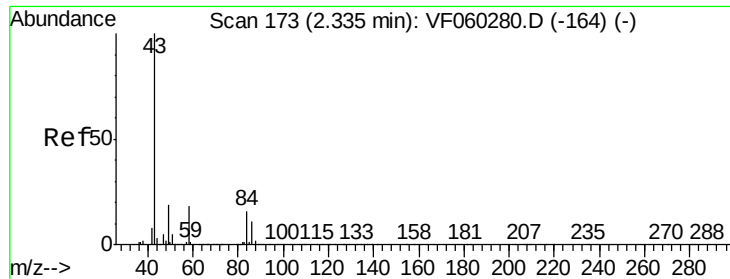


#15

Acrylonitrile
Concen: 2.327 ug/l
RT: 3.07 min Scan# 247
Delta R.T. 0.01 min
Lab File: VF060320.D
Acq: 21 Sep 2018 18:51

Tgt Ion: 53 Resp: 866
Ion Ratio Lower Upper
53 100
52 70.8 69.5 104.3
51 33.3 38.1 57.1#





#16

Acetone

Concen: 9.546 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.00 min

Lab File: VF060320.D

Acq: 21 Sep 2018 18:51

Instrument :

MSVOA_F

ClientSampleId :

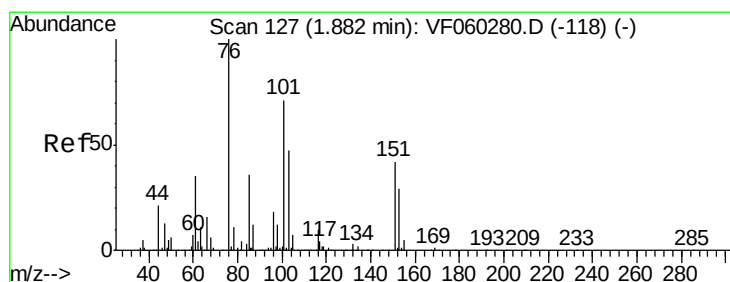
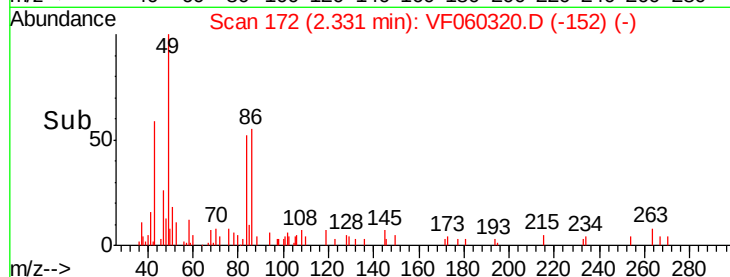
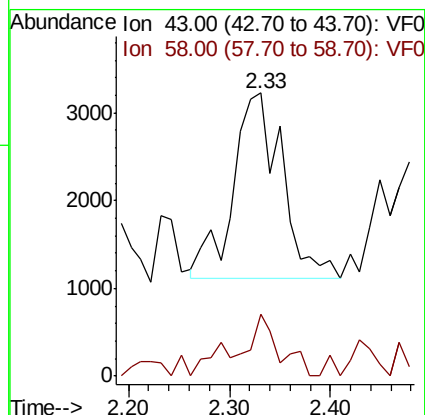
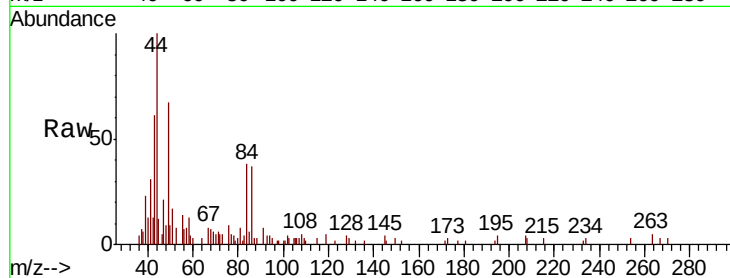
PL-02-0920-18-CRE

Tot Ion: 43 Resp: 7083

Ion Ratio Lower Upper

43 100

58 21.8 14.5 21.7#



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.87 min Scan# 125

Delta R.T. -0.01 min

Lab File: VF060320.D

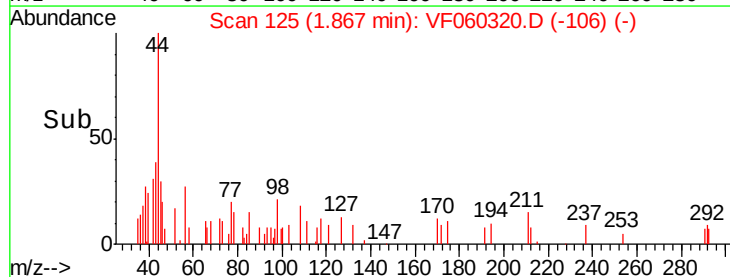
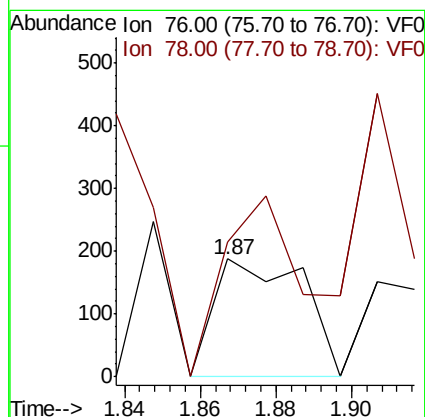
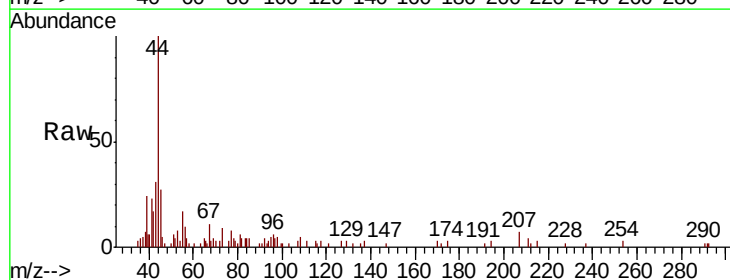
Acq: 21 Sep 2018 18:51

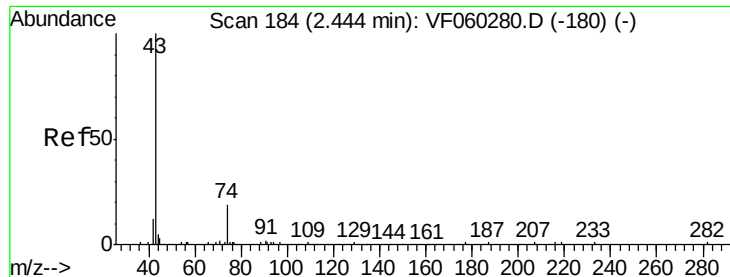
Tgt Ion: 76 Resp: 303

Ion Ratio Lower Upper

76 100

78 114.4 9.4 14.0#

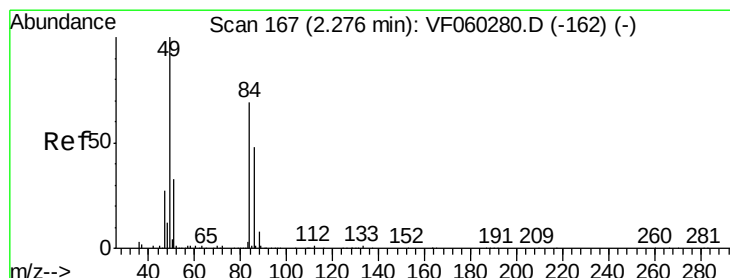
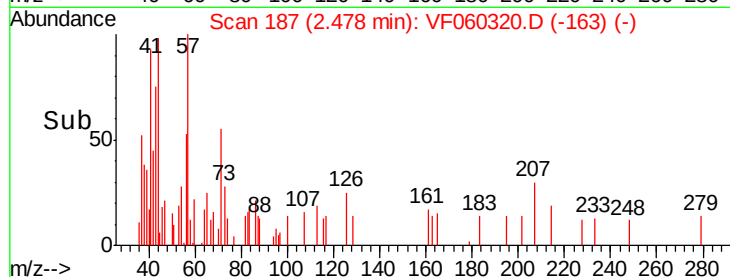
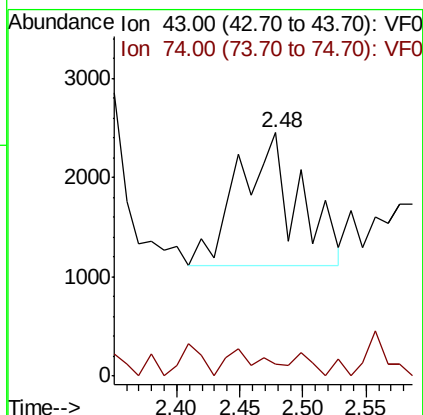
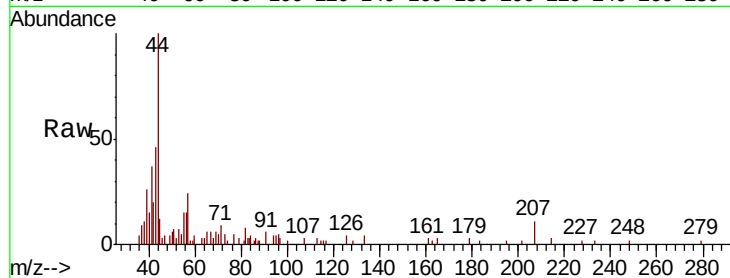




#18
Methyl Acetate
Concen: 3.516 ug/l
RT: 2.48 min Scan# 187
Delta R.T. 0.03 min
Lab File: VF060320.D
Acq: 21 Sep 2018 18:51

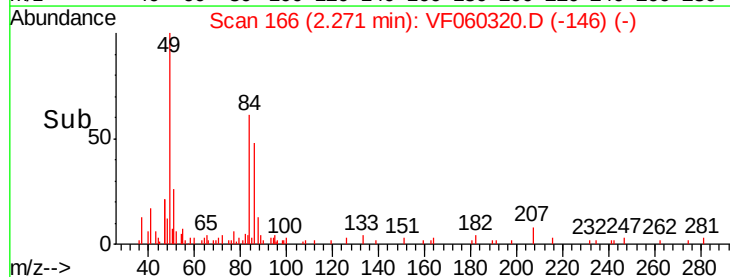
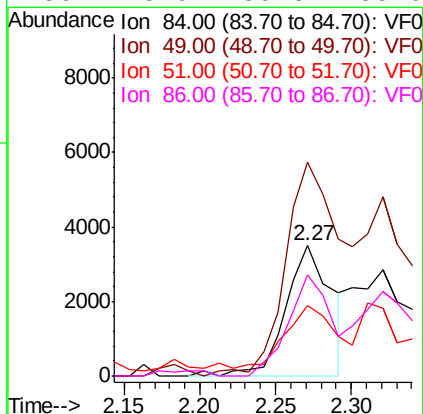
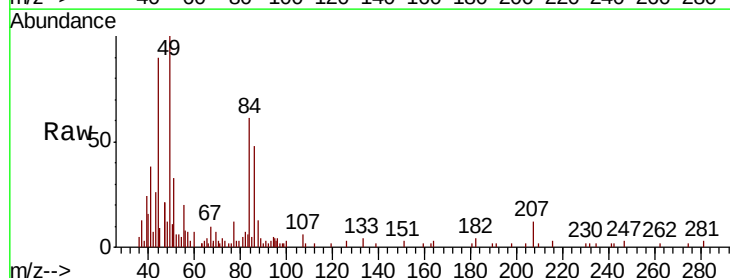
Instrument :
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ClientSampleId :
PL-02-0920-18-CRE

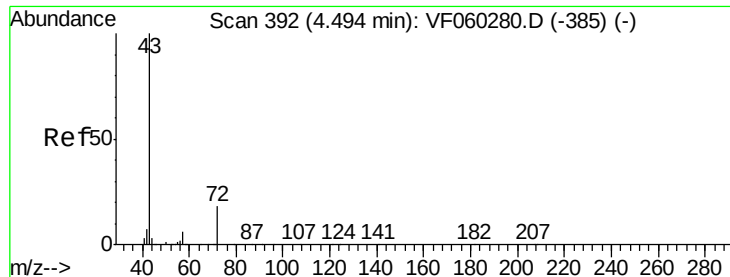
Tot Ion: 43 Resp: 4346
Ion Ratio Lower Upper
43 100
74 4.8 12.7 19.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. -0.00 min
Lab File: VF060320.D
Acq: 21 Sep 2018 18:51

Tgt Ion: 84 Resp: 7445
Ion Ratio Lower Upper
84 100
49 164.1 118.3 177.5
51 54.1 38.7 58.1
86 78.0 55.8 83.6





#25

2-Butanone

Concen: 2.572 ug/l

RT: 4.48 min Scan# 390

Delta R.T. -0.01 min

Lab File: VF060320.D

Acq: 21 Sep 2018 18:51

Instrument :

MSVOA_F

ClientSampleId :

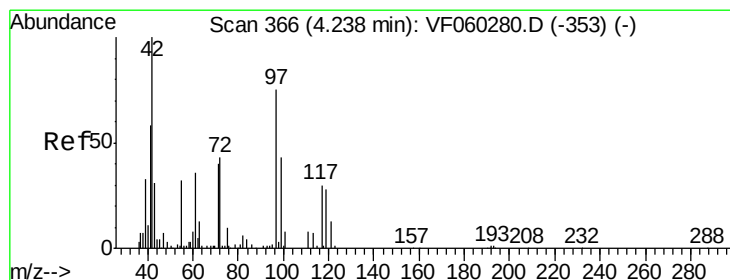
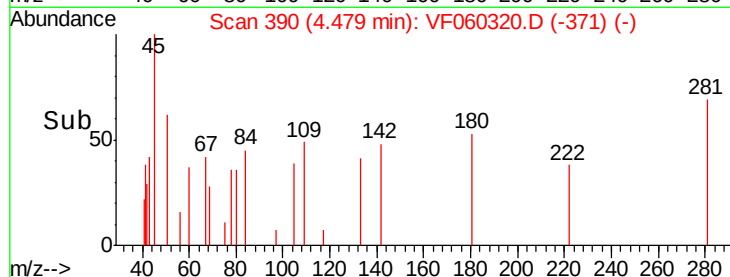
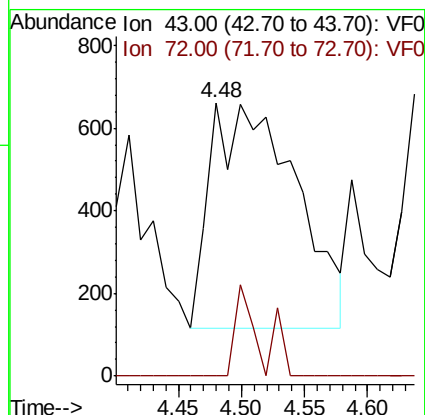
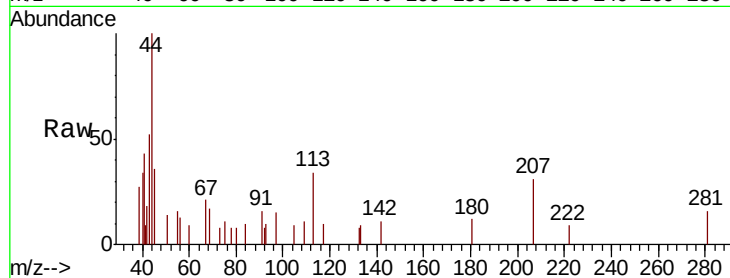
PL-02-0920-18-CRE

Tot Ion: 43 Resp: 2569

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



#29

Tetrahydrofuran

Concen: 3.735 ug/l

RT: 4.25 min Scan# 367

Delta R.T. 0.02 min

Lab File: VF060320.D

Acq: 21 Sep 2018 18:51

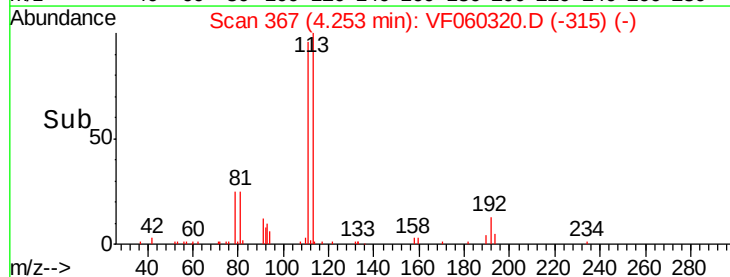
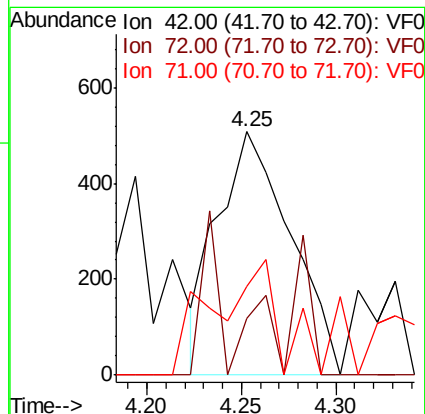
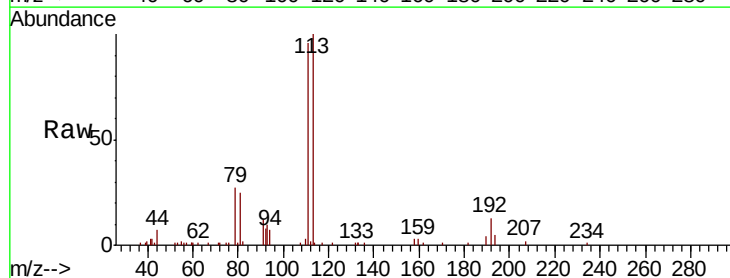
Tgt Ion: 42 Resp: 1366

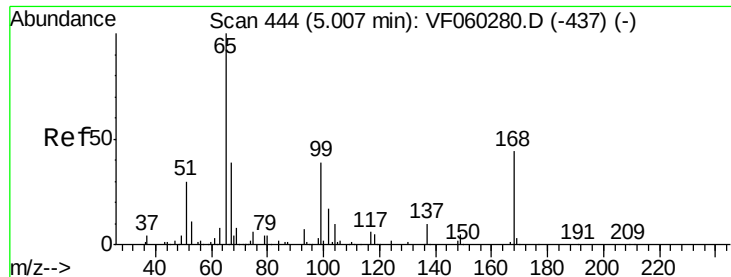
Ion Ratio Lower Upper

42 100

72 7.2 32.6 49.0#

71 43.0 32.7 49.1

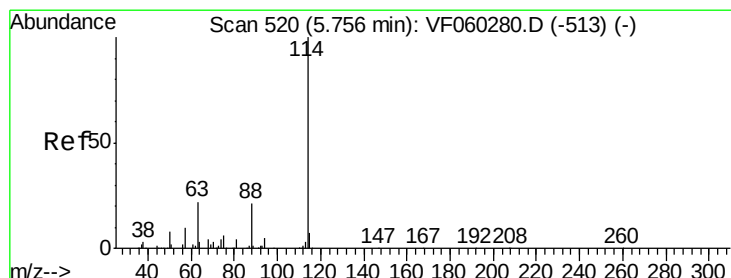
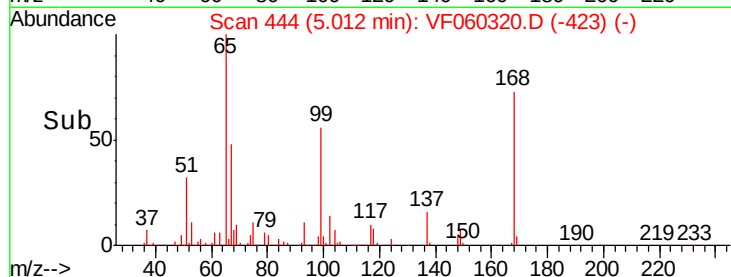
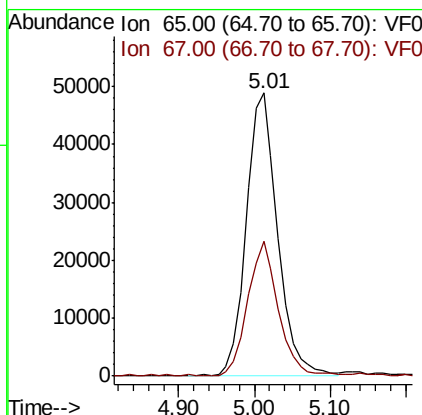
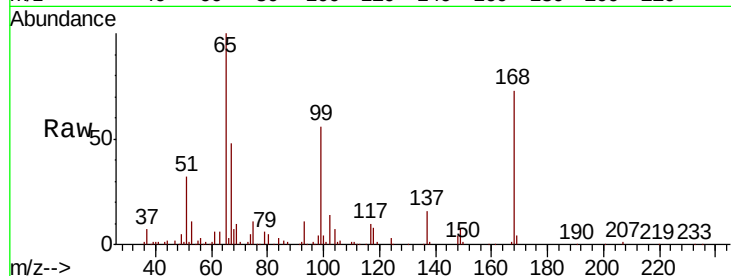




#33
 1,2-Dichloroethane-d4
 Concen: 53.417 ug/l
 RT: 5.01 min Scan# 444
 Delta R.T. 0.01 min
 Lab File: VF060320.D
 Acq: 21 Sep 2018 18:51

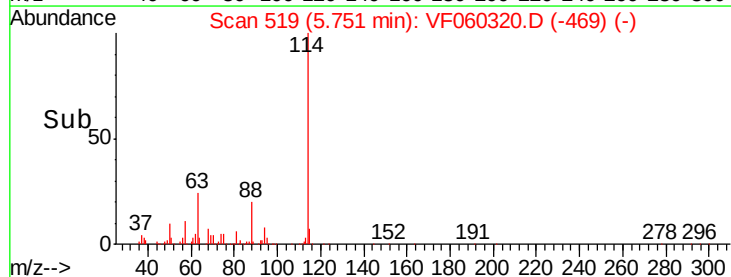
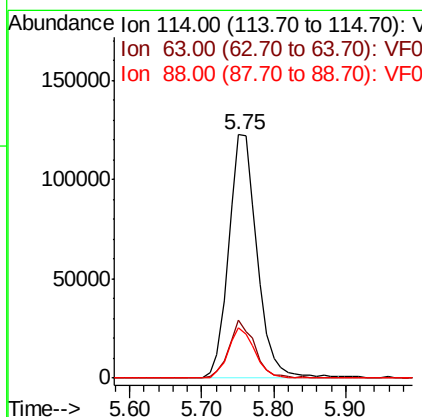
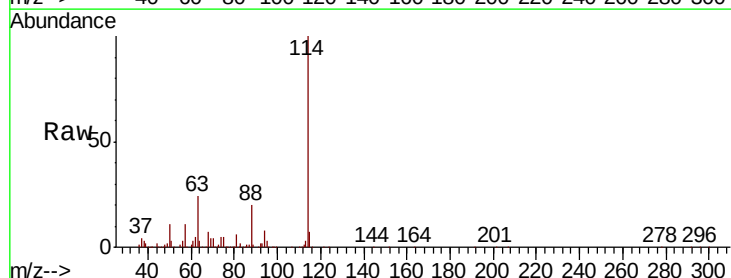
Instrument :
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 PL-02-0920-18-CRE

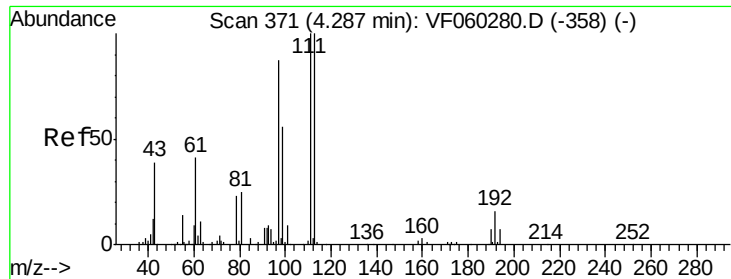
Tot Ion: 65 Resp: 140739
 Ion Ratio Lower Upper
 65 100
 67 47.9 0.0 94.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 519
 Delta R.T. -0.00 min
 Lab File: VF060320.D
 Acq: 21 Sep 2018 18:51

Tgt Ion: 114 Resp: 337243
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 43.8
 88 20.4 0.0 41.2





#35

Dibromofluoromethane

Concen: 49.602 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VF060320.D

Acq: 21 Sep 2018 18:51

Instrument :

MSVOA_F

ClientSampleId :

PL-02-0920-18-CRE

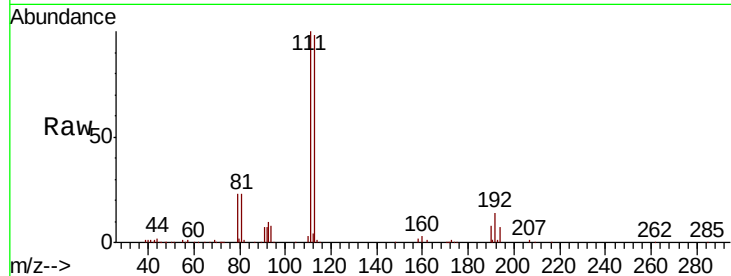
Tot Ion:113 Resp: 149116

Ion Ratio Lower Upper

113 100

111 102.1 79.6 119.4

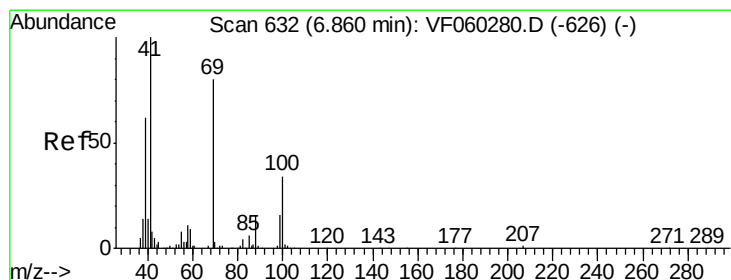
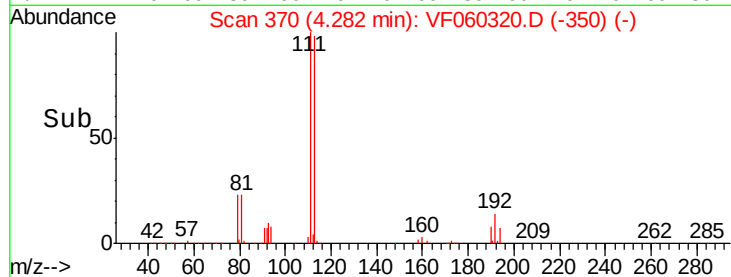
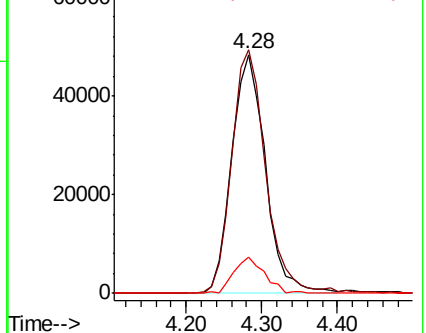
192 15.2 13.0 19.6



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: 9.525 ug/l

RT: 6.86 min Scan# 631

Delta R.T. -0.00 min

Lab File: VF060320.D

Acq: 21 Sep 2018 18:51

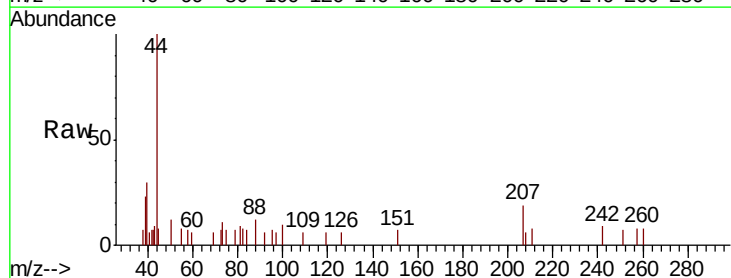
Tgt Ion: 88 Resp: 128

Ion Ratio Lower Upper

88 100

43 72.7 40.2 60.4#

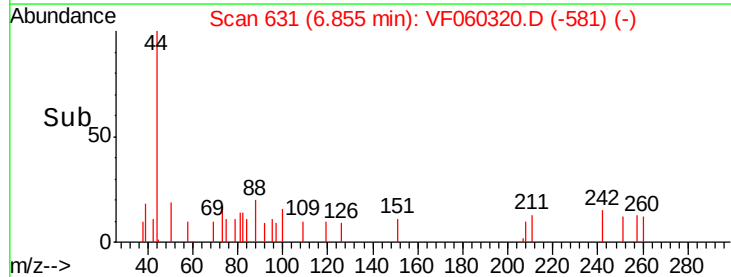
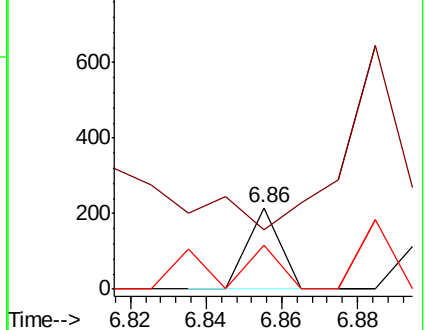
58 53.2 56.7 85.1#

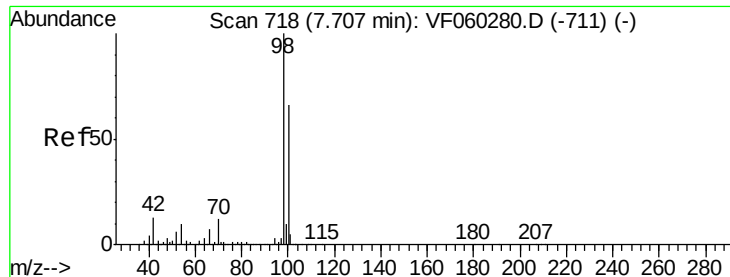


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

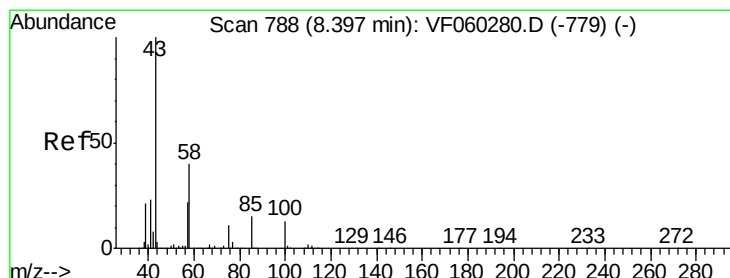
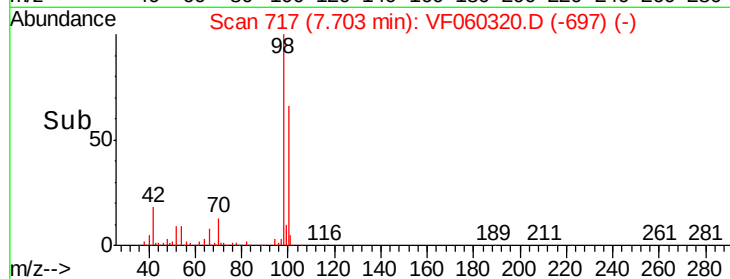
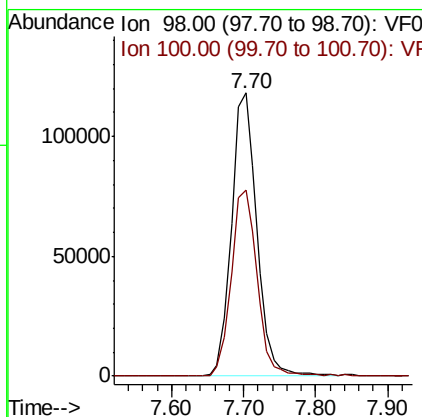
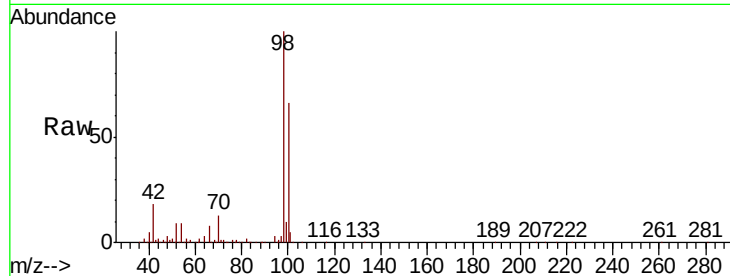




#50
Toluene-d8
Concen: 37.133 ug/l
RT: 7.70 min Scan# 717
Delta R.T. -0.00 min
Lab File: VF060320.D
Acq: 21 Sep 2018 18:51

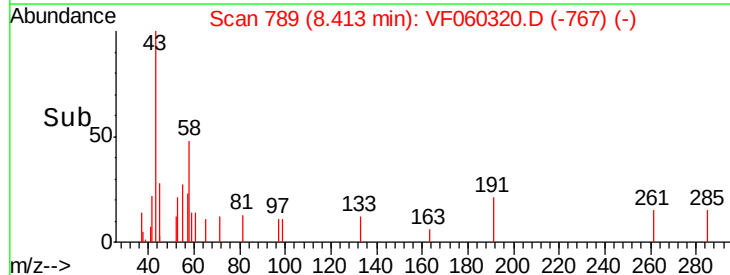
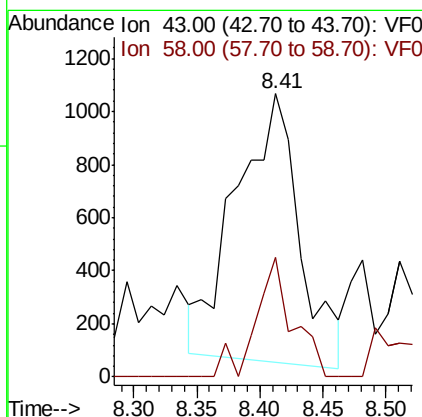
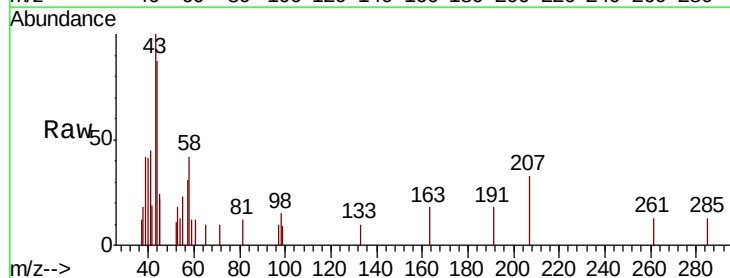
Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-CRE

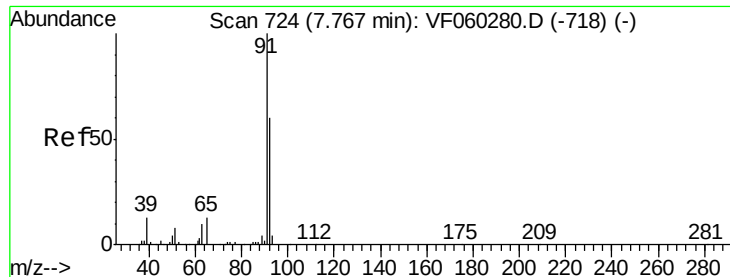
Tot Ion: 98 Resp: 290714
Ion Ratio Lower Upper
98 100
100 65.6 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 2.148 ug/l
RT: 8.41 min Scan# 789
Delta R.T. 0.02 min
Lab File: VF060320.D
Acq: 21 Sep 2018 18:51

Tgt Ion: 43 Resp: 3547
Ion Ratio Lower Upper
43 100
58 42.2 31.8 47.8





#58

2-Chloroethyl Vinyl ether

Concen: 2.107 ug/l

RT: 7.77 min Scan# 724

Delta R.T. 0.01 min

Lab File: VF060320.D

Acq: 21 Sep 2018 18:51

Instrument :

MSVOA_F

ClientSampleId :

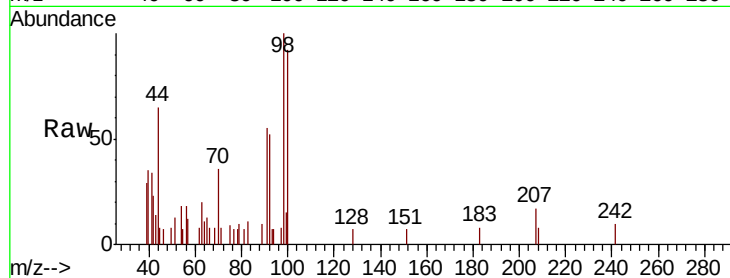
PL-02-0920-18-CRE

Tot Ion: 63 Resp: 412

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

7.77

300

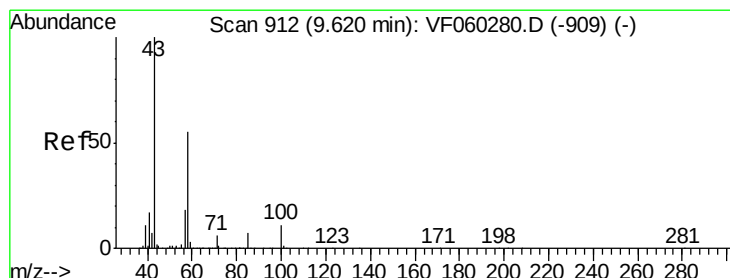
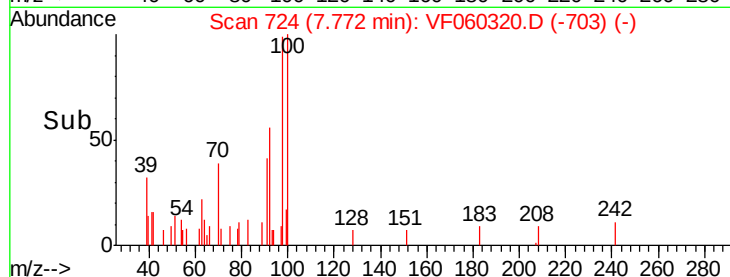
200

100

0

7.75 7.80

Time-->



#59

2-Hexanone

Concen: 3.809 ug/l

RT: 9.63 min Scan# 913

Delta R.T. 0.02 min

Lab File: VF060320.D

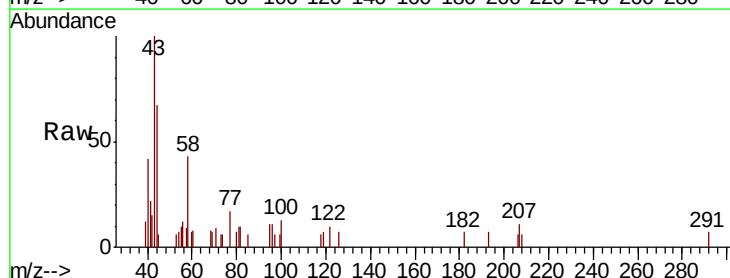
Acq: 21 Sep 2018 18:51

Tgt Ion: 43 Resp: 4479

Ion Ratio Lower Upper

43 100

58 43.4 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2000

1500

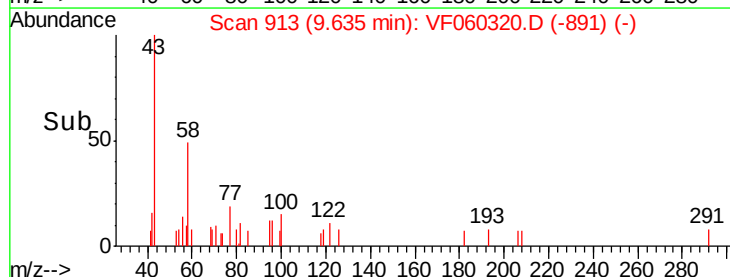
1000

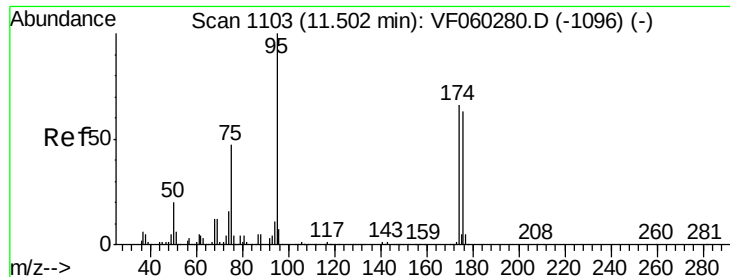
500

0

9.60 9.70

Time-->

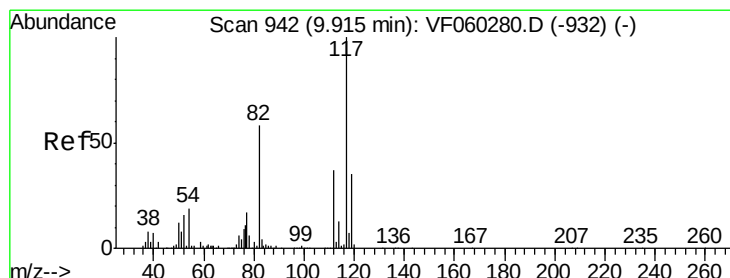
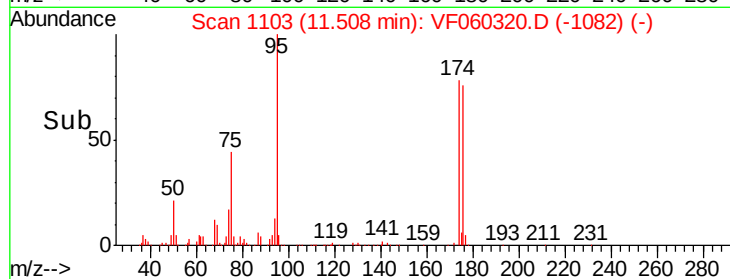
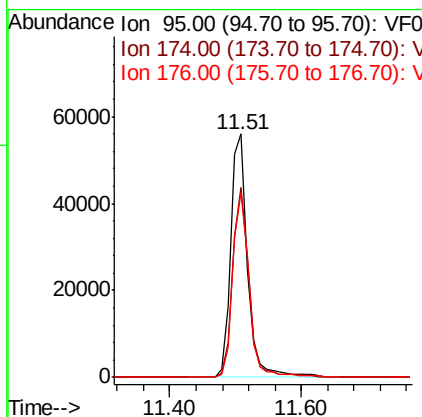
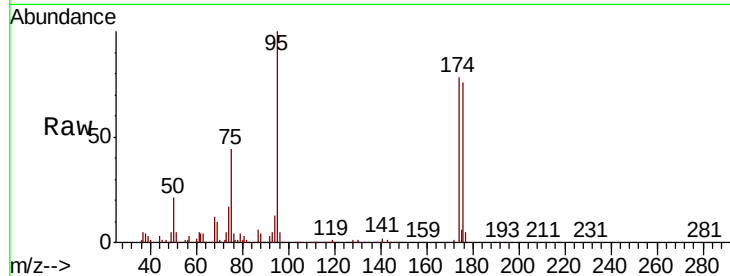




#62
4-Bromofluorobenzene
Concen: 29.768 ug/l
RT: 11.51 min Scan# 1103
Delta R.T. 0.01 min
Lab File: VF060320.D
Acq: 21 Sep 2018 18:51

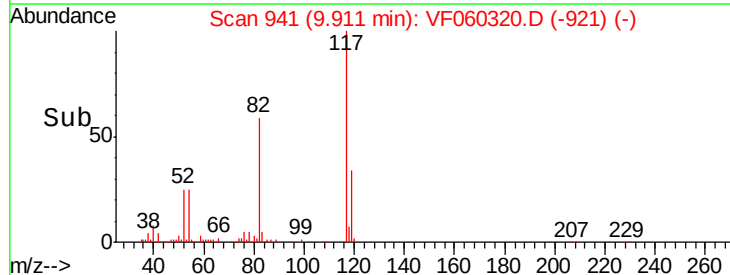
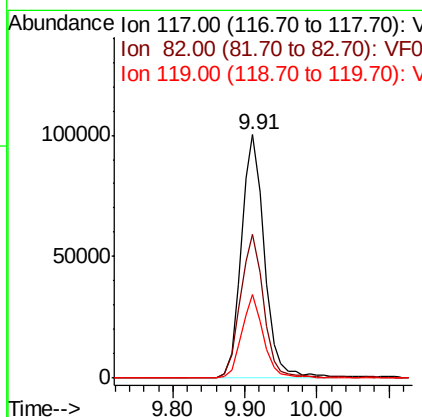
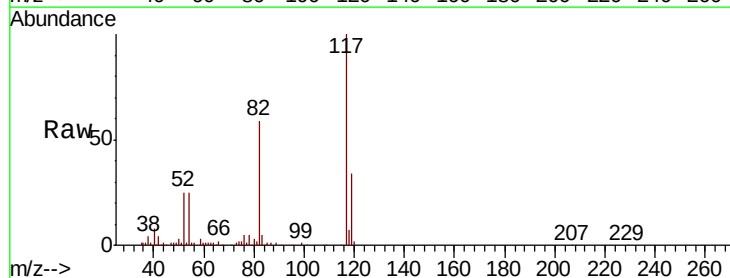
Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-CRE

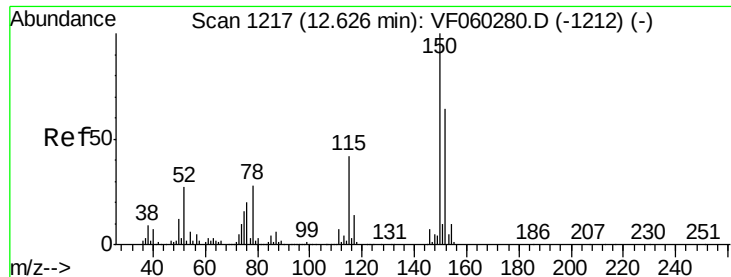
Tot Ion	95	Resp	100740
Ion	Ratio	Lower	Upper
95	100		
174	77.9	0.0	131.2
176	76.0	0.0	126.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.00 min
Lab File: VF060320.D
Acq: 21 Sep 2018 18:51

Tgt Ion	117	Resp	225380
Ion	Ratio	Lower	Upper
117	100		
82	59.1	46.2	69.2
119	34.3	27.8	41.6



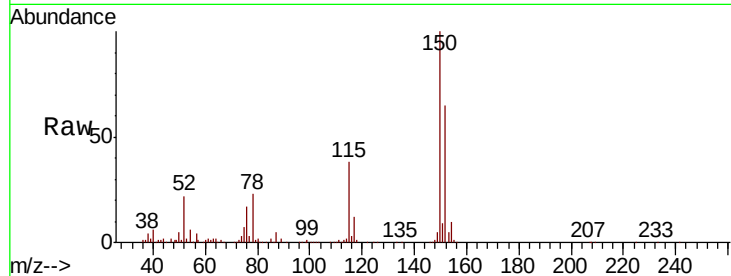


#72

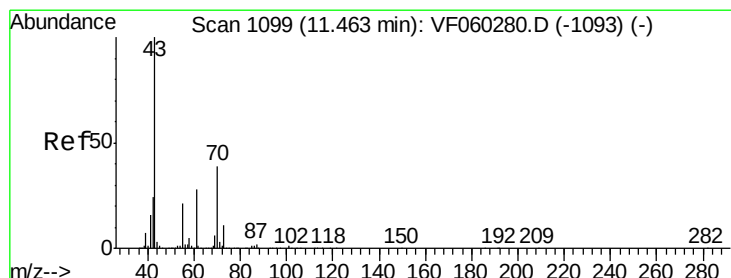
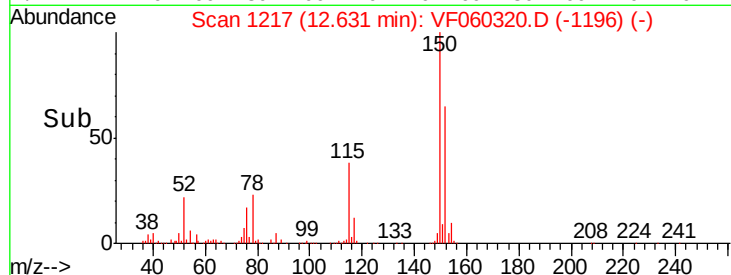
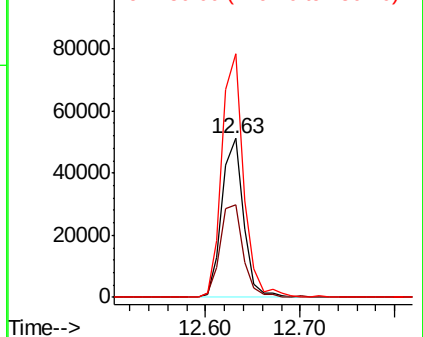
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. 0.01 min
Lab File: VF060320.D
Acq: 21 Sep 2018 18:51

Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-CRE

Tot Ion:152 Resp: 81696
Ion Ratio Lower Upper
152 100
115 58.3 32.6 97.8
150 153.1 0.0 314.2



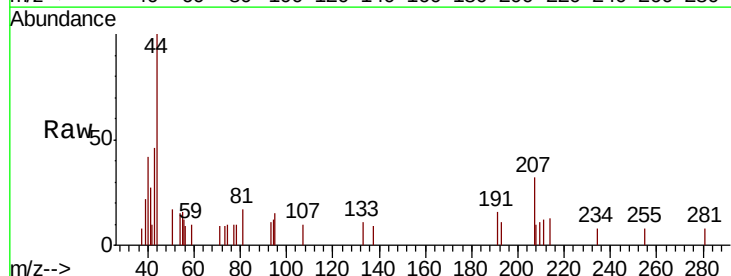
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



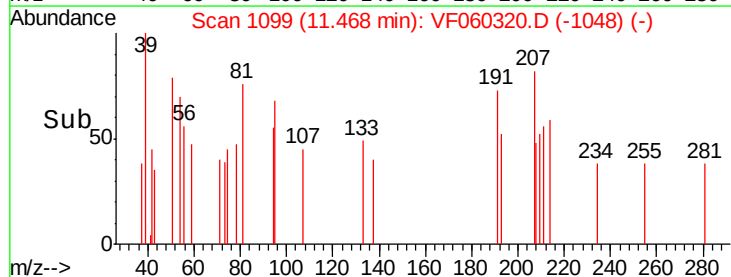
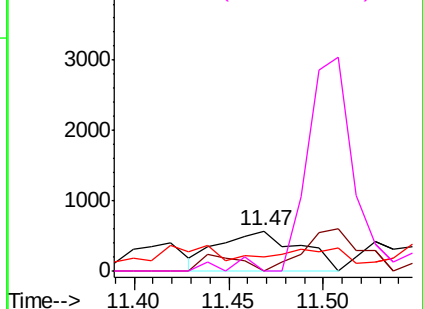
#74

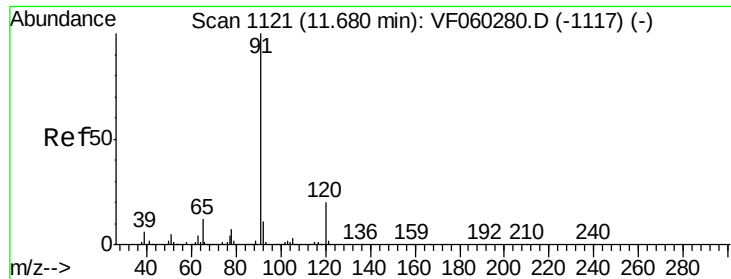
N-amil acetate
Concen: 1.081 ug/l
RT: 11.47 min Scan# 1099
Delta R.T. 0.01 min
Lab File: VF060320.D
Acq: 21 Sep 2018 18:51

Tgt Ion: 43 Resp: 1690
Ion Ratio Lower Upper
43 100
70 0.0 31.4 47.2#
55 34.9 16.8 25.2#
61 0.0 22.6 34.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 70.00 (69.70 to 70.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 61.00 (60.70 to 61.70): VF0





#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VF060320.D

Acq: 21 Sep 2018 18:51

Instrument :

MSVOA_F

ClientSampleId :

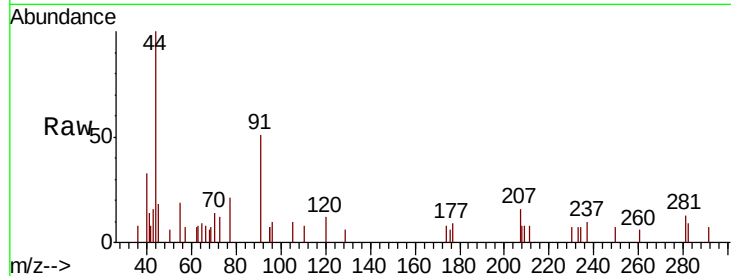
PL-02-0920-18-CRE

Tot Ion: 91 Resp: 1082

Ion Ratio Lower Upper

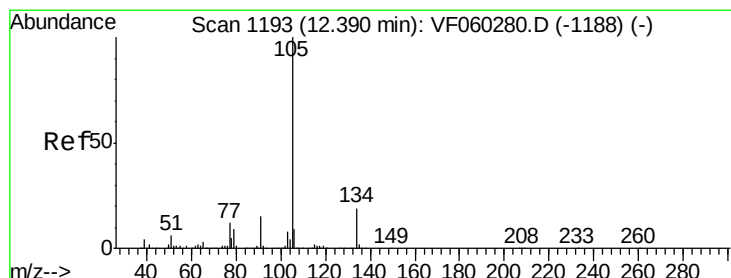
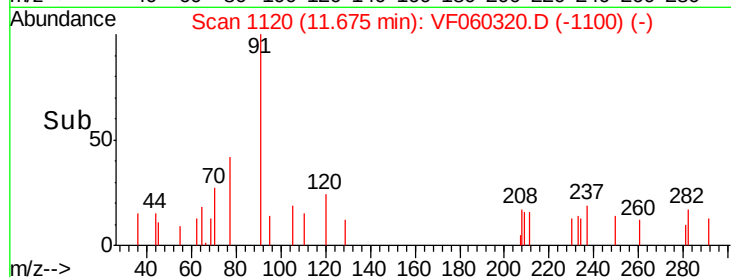
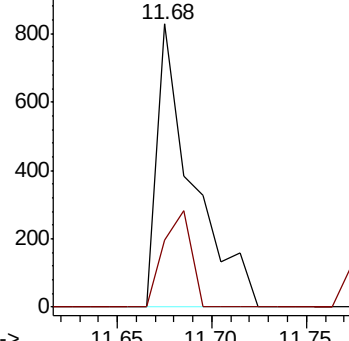
91 100

120 23.9 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1191

Delta R.T. -0.01 min

Lab File: VF060320.D

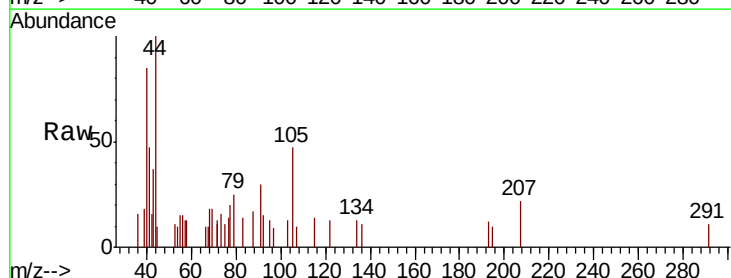
Acq: 21 Sep 2018 18:51

Tgt Ion: 105 Resp: 916

Ion Ratio Lower Upper

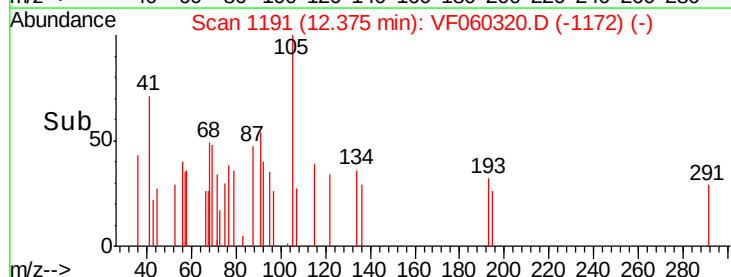
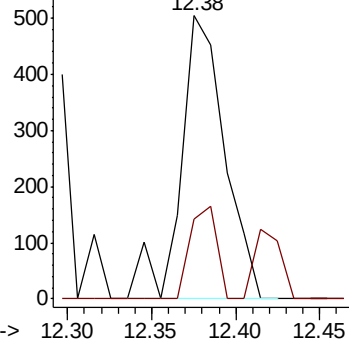
105 100

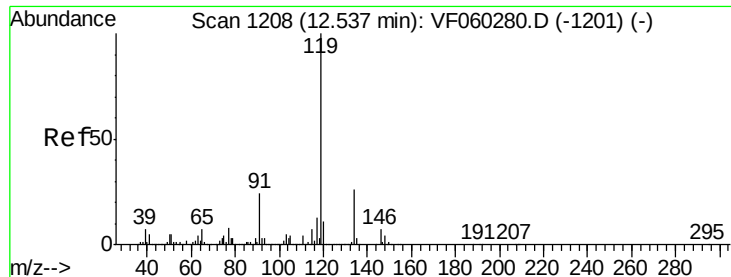
134 28.2 9.6 28.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.53 min Scan# 1207
 Delta R.T. -0.00 min
 Lab File: VF060320.D
 Acq: 21 Sep 2018 18:51

Instrument :
 MSVOA_F
 ClientSampleId :
 PL-02-0920-18-CRE

Tot Ion	Ratio	Lower	Upper
119	100		
134	33.0	12.9	38.7
91	26.6	11.9	35.7

