

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092118\
 Data File : VF060318.D
 Acq On : 21 Sep 2018 17:56
 Operator : VA/AP
 Sample : J4771-11RE
 Misc : 6.82/5mL/MSVOA F/SOIL
 ALS Vial : 38 Sample Multiplier: 1

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

Quant Time: Sep 22 02:27:37 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	202073	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	345923	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	281883	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	131132	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	143760	52.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.66%	
35) Dibromofluoromethane	4.28	113	144717	46.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.86%	
50) Toluene-d8	7.70	98	282716	35.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.42%	
62) 4-Bromofluorobenzene	11.51	95	127973	36.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.74%	

Target Compounds

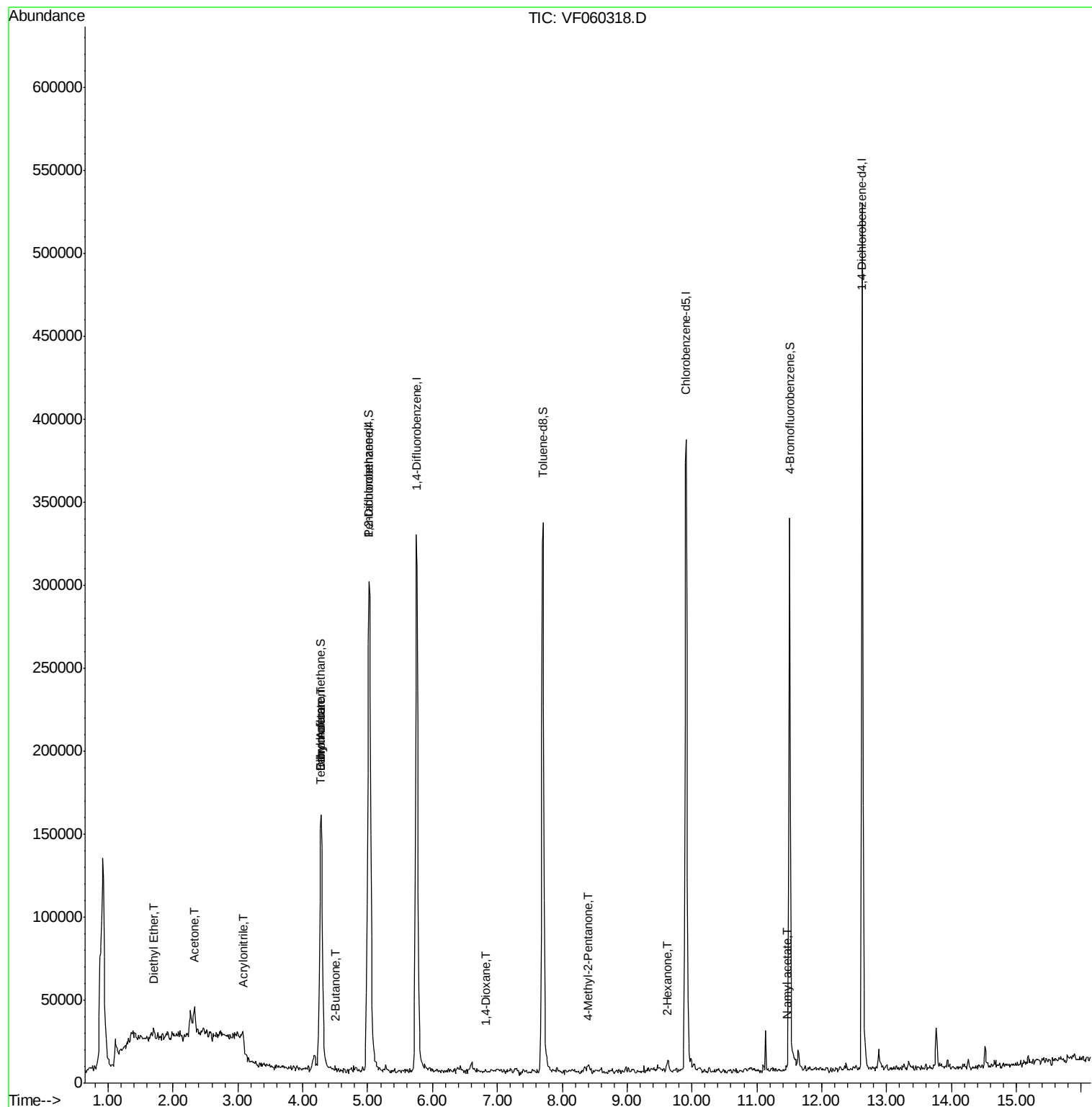
						Qvalue
2) Dichlorodifluoromethane	0.98	85	203	Below Cal	#	40
5) Bromomethane	1.32	94	462	Below Cal		94
8) Diethyl Ether	1.70	74	3095	3.558	ug/l	88
11) Tert butyl alcohol	2.71	59	101	Below Cal	#	1
13) Acrolein	2.11	56	1530	Below Cal		94
15) Acrylonitrile	3.07	53	2204	5.735	ug/l	89
16) Acetone	2.34	43	11041	14.408	ug/l	95
17) Carbon Disulfide	1.89	76	352	Below Cal	#	1
20) Methylene Chloride	2.27	84	7464	Below Cal	#	89
25) 2-Butanone	4.51	43	1722	1.670	ug/l	# 60
29) Tetrahydrofuran	4.26	42	2542	6.730	ug/l	# 48
37) Ethyl Acetate	4.28	43	1997	1.094	ug/l	# 1
49) 1,4-Dioxane	6.84	88	61	4.425	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.40	43	6917	4.083	ug/l	93
59) 2-Hexanone	9.63	43	8365	6.935	ug/l	86
74) N-amyl acetate	11.46	43	3103	1.236	ug/l	# 86
78) n-propylbenzene	11.69	91	2102	Below Cal		96
85) sec-Butylbenzene	12.38	105	1354	Below Cal	#	58
86) p-Isopropyltoluene	12.54	119	1103	Below Cal	#	64
89) n-Butylbenzene	12.91	91	1261	Below Cal		94

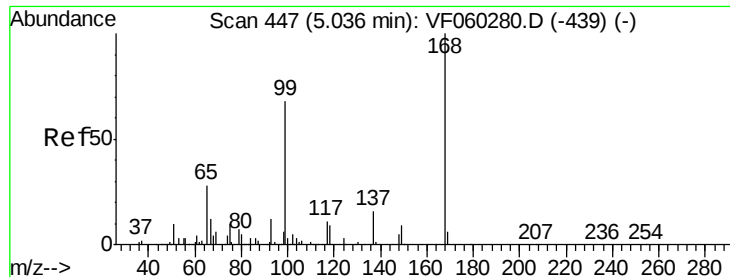
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VF060318.D

Acq: 21 Sep 2018 17:56

Instrument :

MSVOA_F

ClientSampleId :

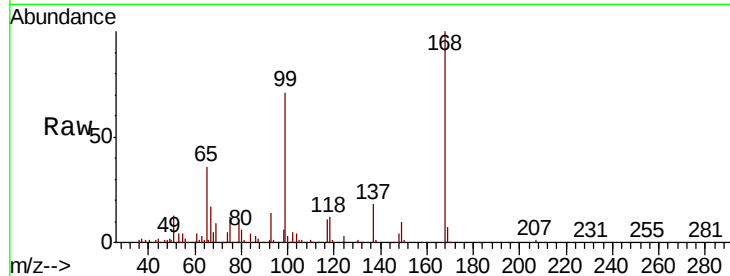
PL-02-0920-18-A

Tot Ion:168 Resp: 202073

Ion Ratio Lower Upper

168 100

99 70.5 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

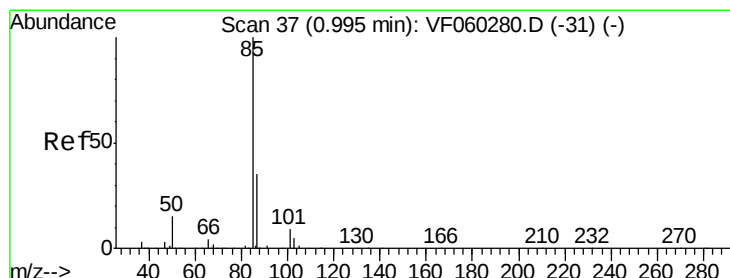
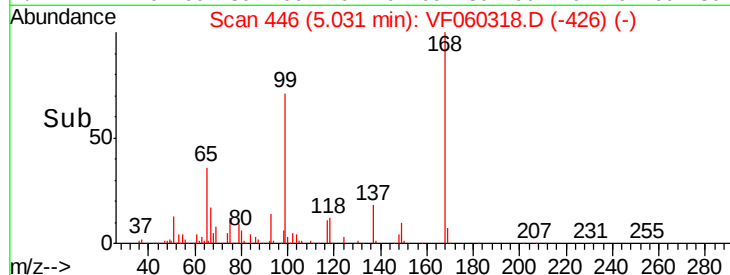
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 35

Delta R.T. -0.01 min

Lab File: VF060318.D

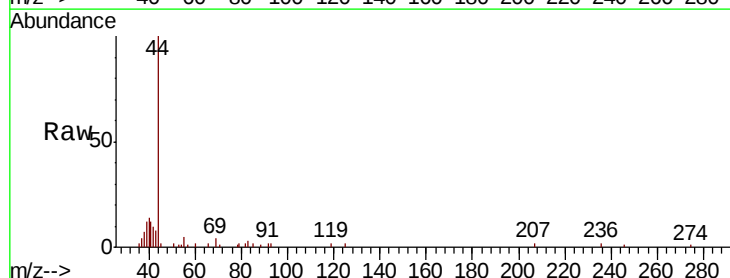
Acq: 21 Sep 2018 17:56

Tgt Ion: 85 Resp: 203

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

300

250

200

150

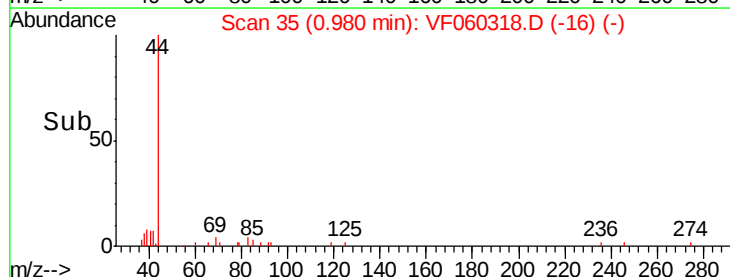
100

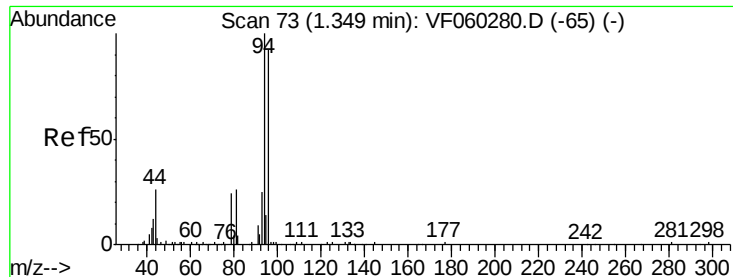
50

0

0.96 0.98 1.00

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.32 min Scan# 69

Delta R.T. -0.03 min

Lab File: VF060318.D

Acq: 21 Sep 2018 17:56

Instrument :

MSVOA_F

ClientSampleId :

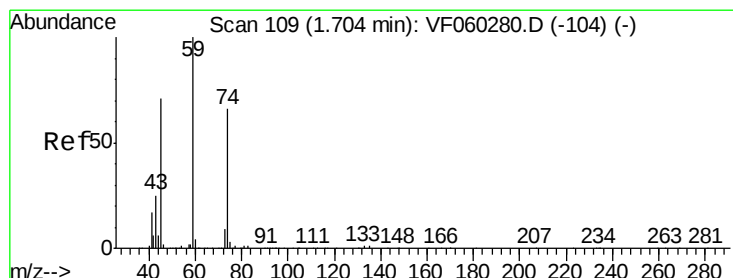
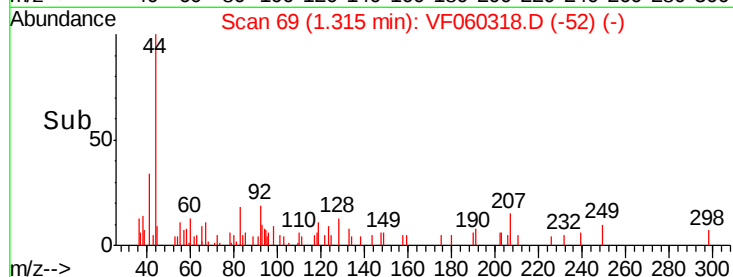
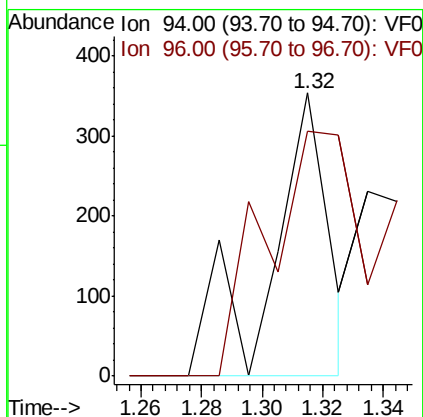
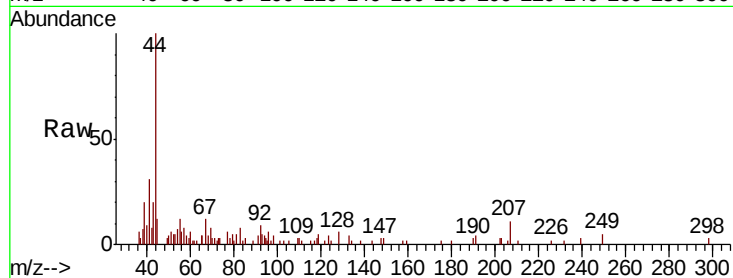
PL-02-0920-18-A

Tot Ion: 94 Resp: 462

Ion Ratio Lower Upper

94 100

96 86.7 73.9 110.9



#8

Diethyl Ether

Concen: 3.558 ug/l

RT: 1.70 min Scan# 108

Delta R.T. -0.00 min

Lab File: VF060318.D

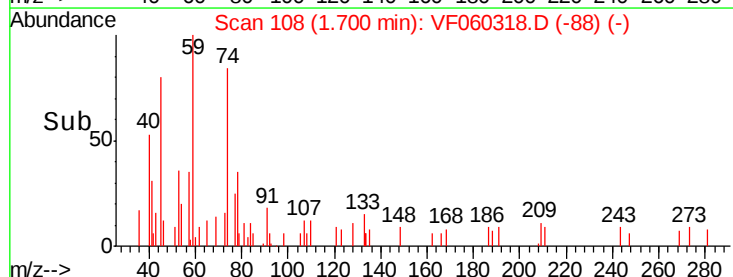
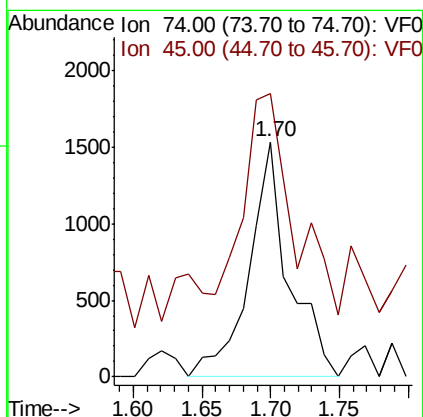
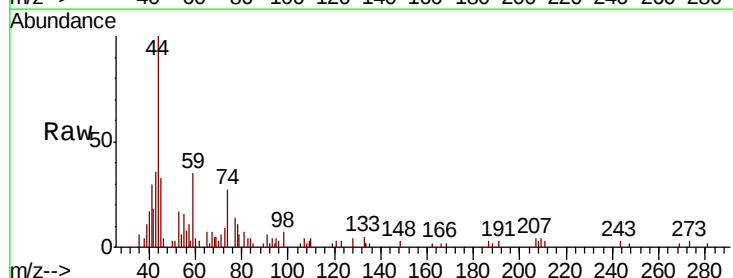
Acq: 21 Sep 2018 17:56

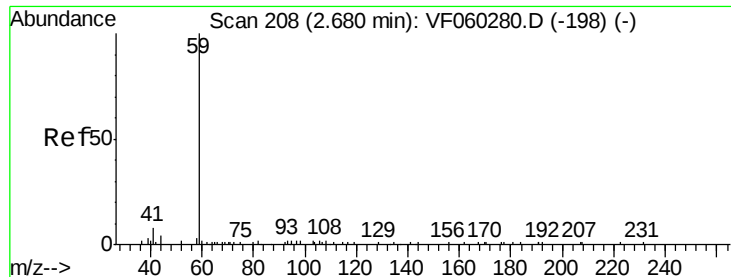
Tgt Ion: 74 Resp: 3095

Ion Ratio Lower Upper

74 100

45 120.6 53.9 161.7



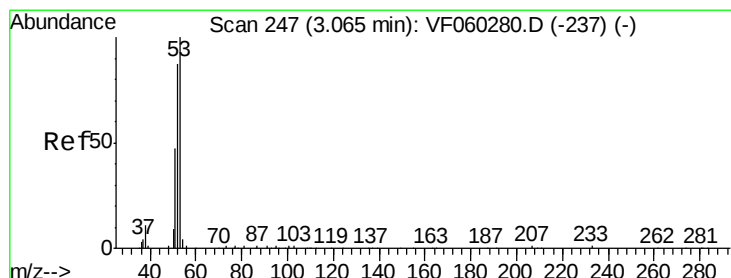
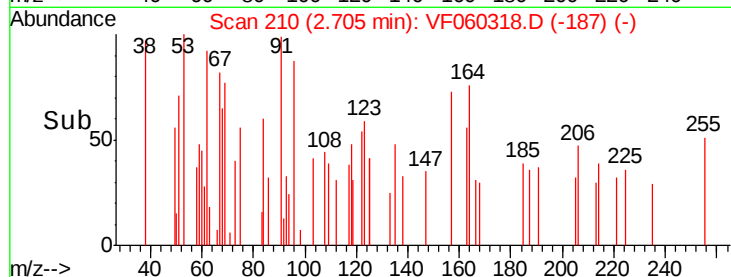
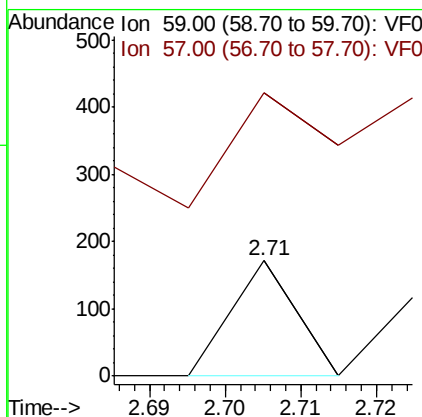
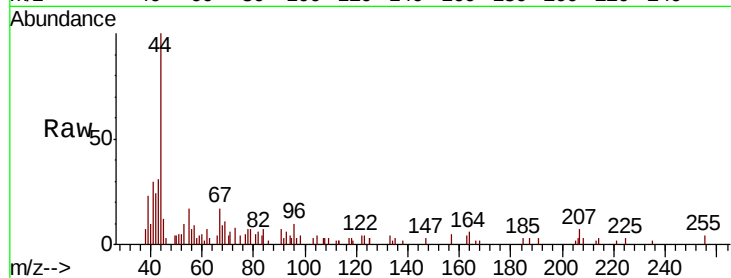


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.71 min Scan# 210
 Delta R.T. 0.03 min
 Lab File: VF060318.D
 Acq: 21 Sep 2018 17:56

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

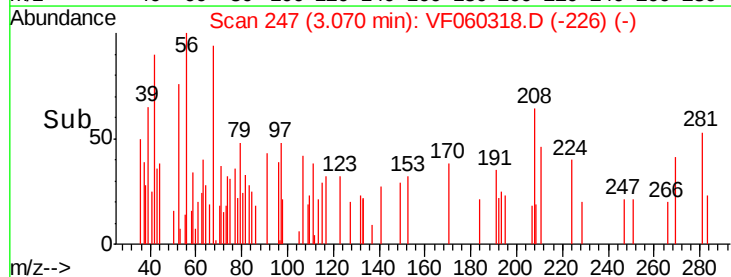
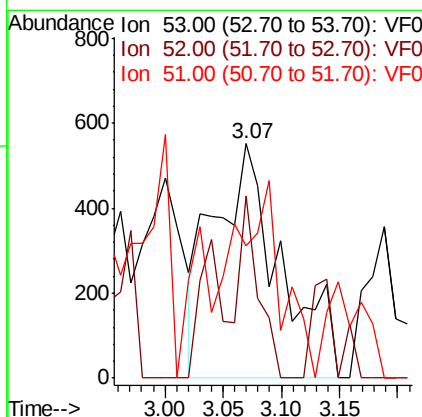
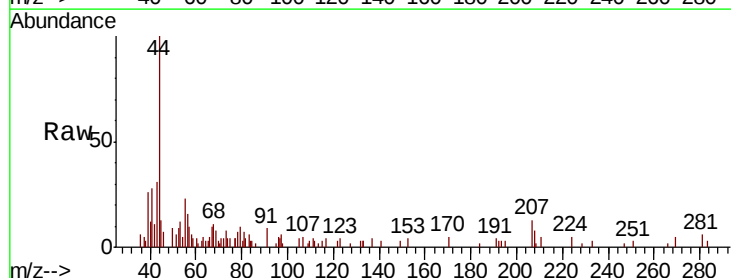
Tot Ion: 59 Resp: 101
 Ion Ratio Lower Upper
 59 100
 57 246.2 12.4 18.6#

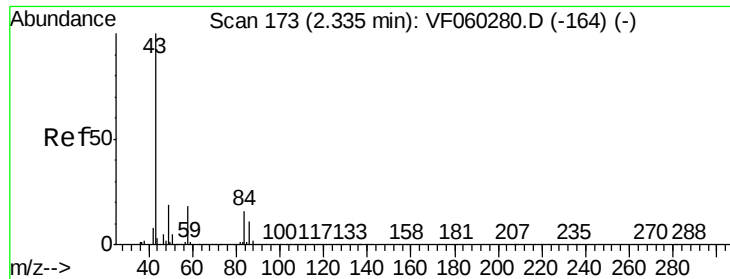


#15

Acrylonitrile
 Concen: 5.735 ug/l
 RT: 3.07 min Scan# 247
 Delta R.T. 0.01 min
 Lab File: VF060318.D
 Acq: 21 Sep 2018 17:56

Tgt Ion: 53 Resp: 2204
 Ion Ratio Lower Upper
 53 100
 52 78.0 69.5 104.3
 51 56.4 38.1 57.1





#16

Acetone

Concen: 14.408 ug/l

RT: 2.34 min Scan# 173

Delta R.T. 0.01 min

Lab File: VF060318.D

Acq: 21 Sep 2018 17:56

Instrument :

MSVOA_F

ClientSampleId :

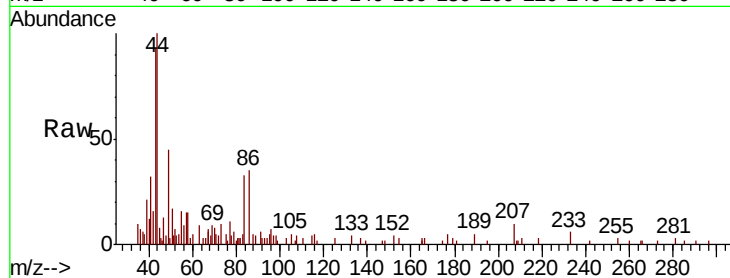
PL-02-0920-18-A

Tot Ion: 43 Resp: 11041

Ion Ratio Lower Upper

43 100

58 15.8 14.5 21.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.34

5000

4000

3000

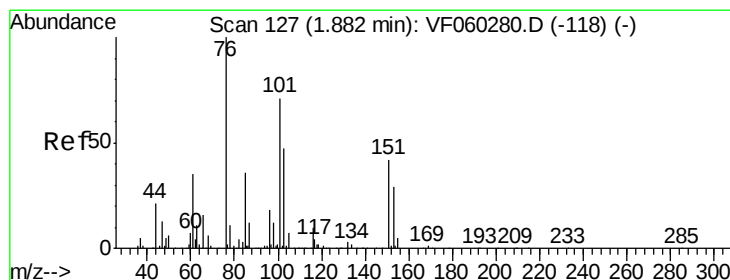
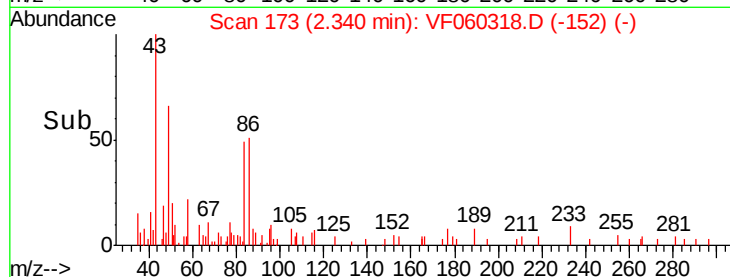
2000

1000

0

Time-->

2.25 2.30 2.35 2.40



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.89 min Scan# 127

Delta R.T. 0.01 min

Lab File: VF060318.D

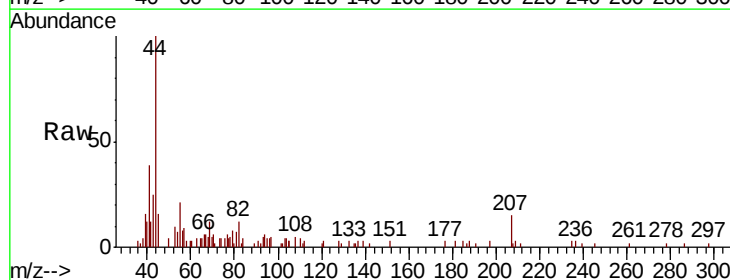
Acq: 21 Sep 2018 17:56

Tgt Ion: 76 Resp: 352

Ion Ratio Lower Upper

76 100

78 115.9 9.4 14.0#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

600

500

400

300

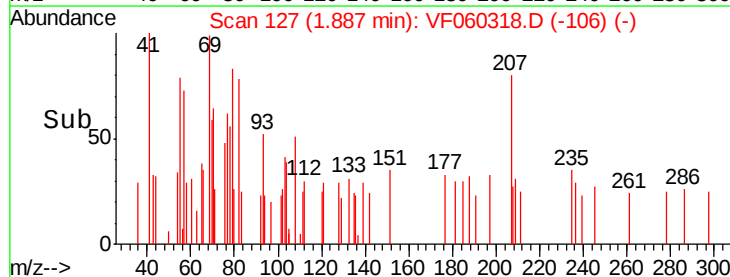
200

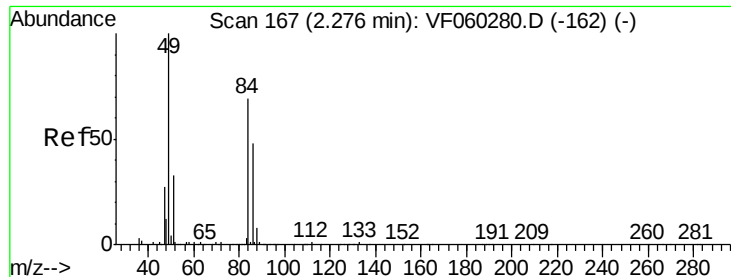
100

0

Time-->

1.85 1.90

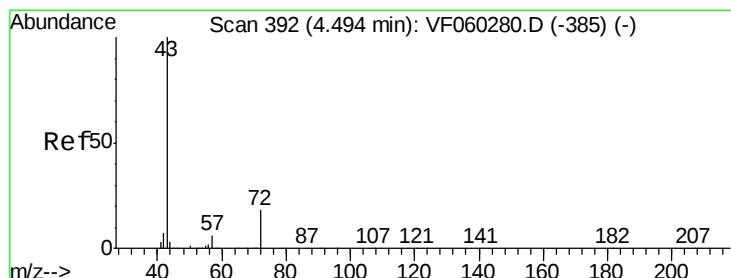
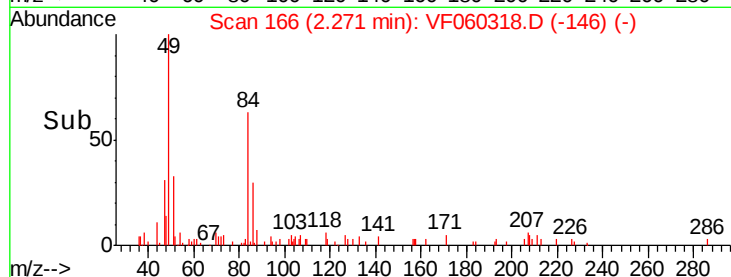
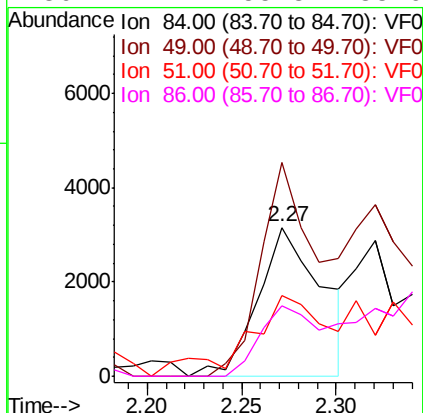
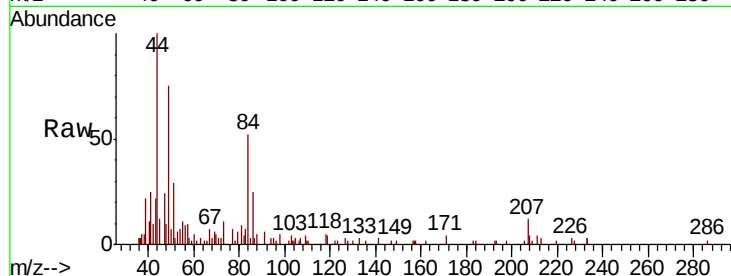




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. -0.00 min
Lab File: VF060318.D
Acq: 21 Sep 2018 17:56

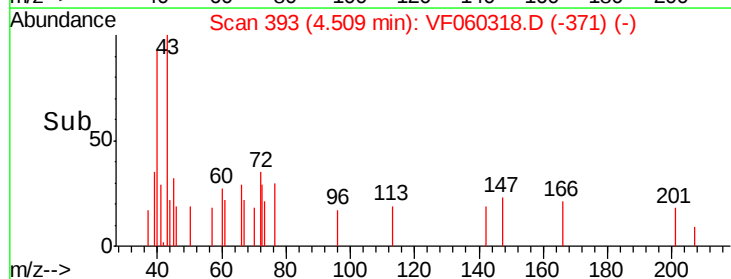
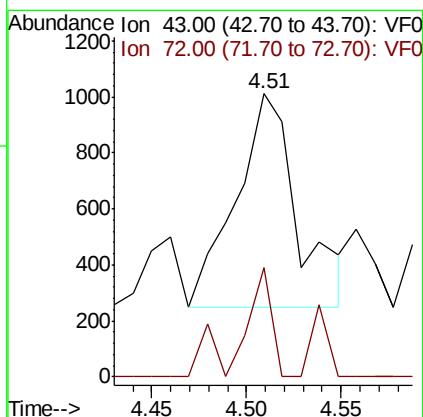
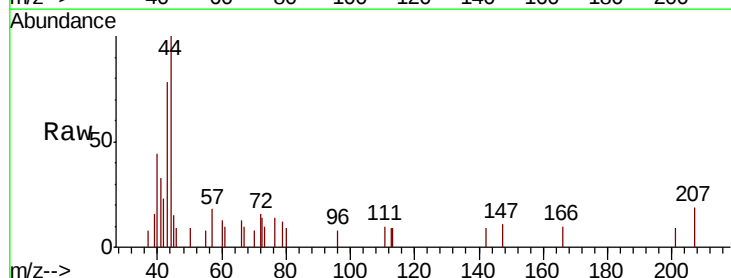
Instrument :
MSVOA_F
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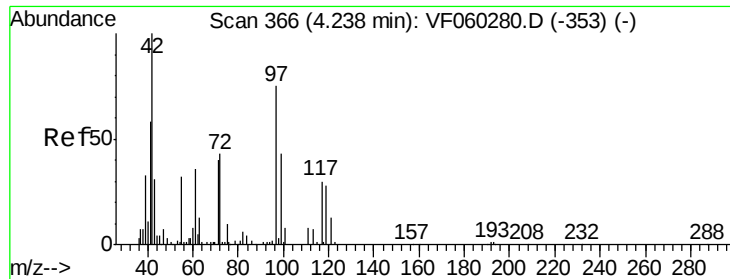
Tot Ion: 84 Resp: 7464
Ion Ratio Lower Upper
84 100
49 143.5 118.3 177.5
51 54.6 38.7 58.1
86 47.1 55.8 83.6#



#25
2-Butanone
Concen: 1.670 ug/l
RT: 4.51 min Scan# 393
Delta R.T. 0.01 min
Lab File: VF060318.D
Acq: 21 Sep 2018 17:56

Tgt Ion: 43 Resp: 1722
Ion Ratio Lower Upper
43 100
72 38.5 16.2 24.2#





#29

Tetrahydrofuran

Concen: 6.730 ug/l

RT: 4.26 min Scan# 368

Delta R.T. 0.02 min

Lab File: VF060318.D

Acq: 21 Sep 2018 17:56

Instrument :

MSVOA_F

ClientSampleId :

PL-02-0920-18-A

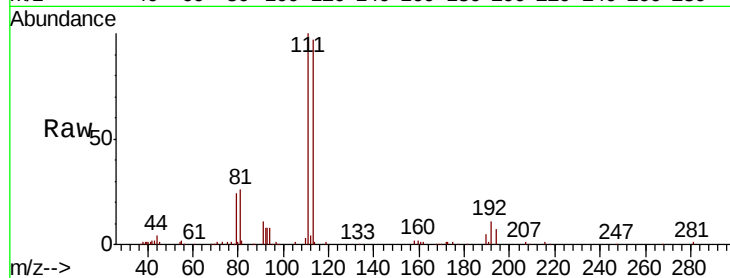
Tot Ion: 42 Resp: 2542

Ion Ratio Lower Upper

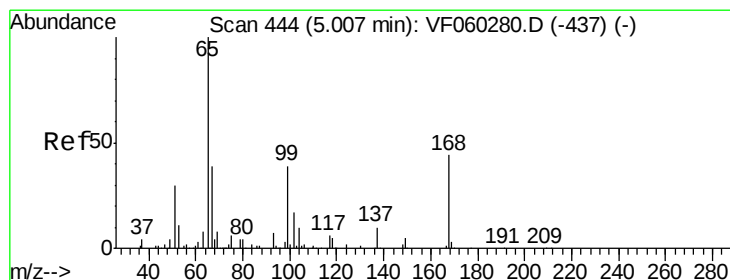
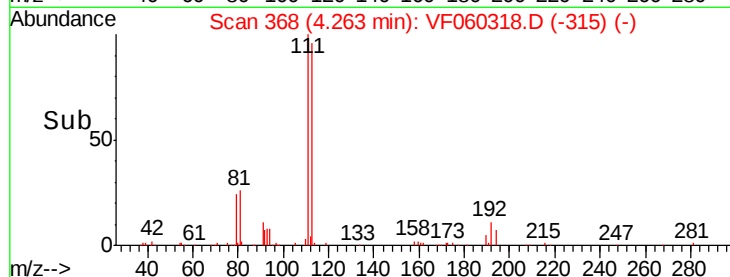
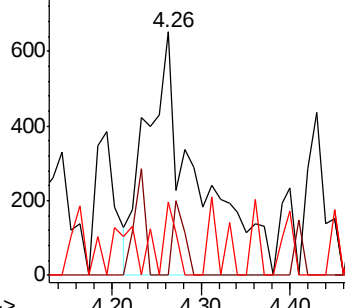
42 100

72 7.3 32.6 49.0#

71 10.1 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: 52.834 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.01 min

Lab File: VF060318.D

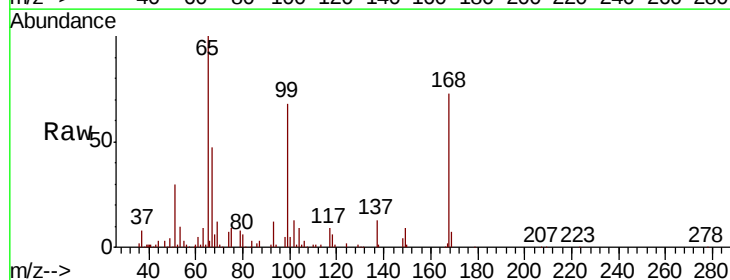
Acq: 21 Sep 2018 17:56

Tgt Ion: 65 Resp: 143760

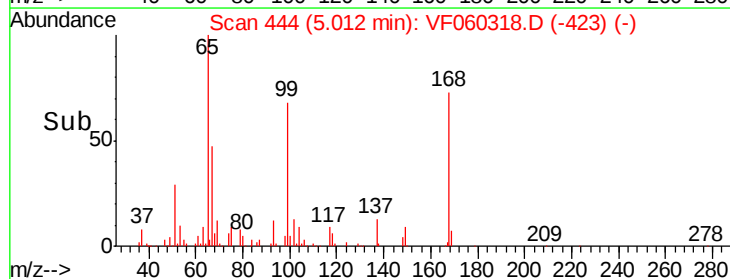
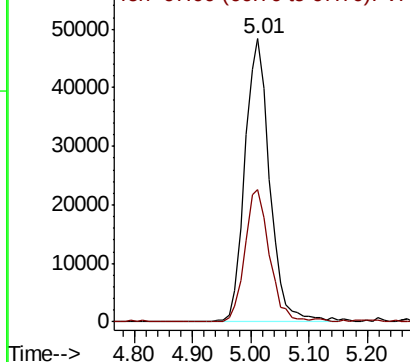
Ion Ratio Lower Upper

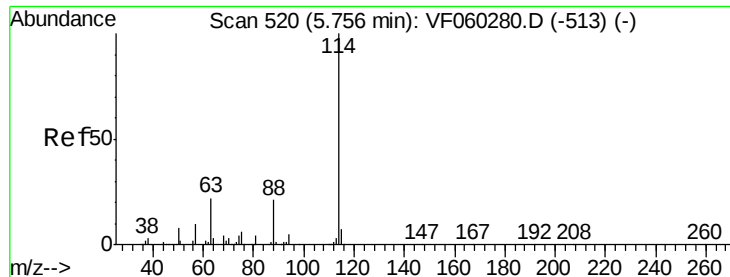
65 100

67 46.8 0.0 94.4



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. -0.00 min

Lab File: VF060318.D

Acq: 21 Sep 2018 17:56

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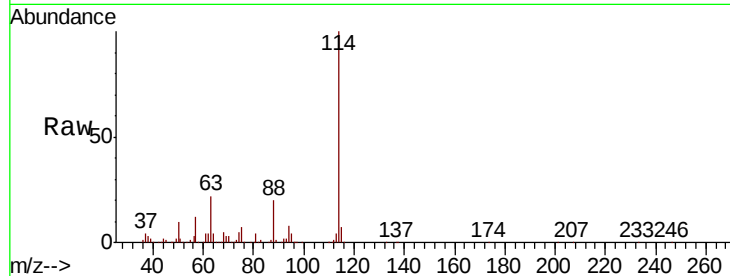
Tot Ion:114 Resp: 345923

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

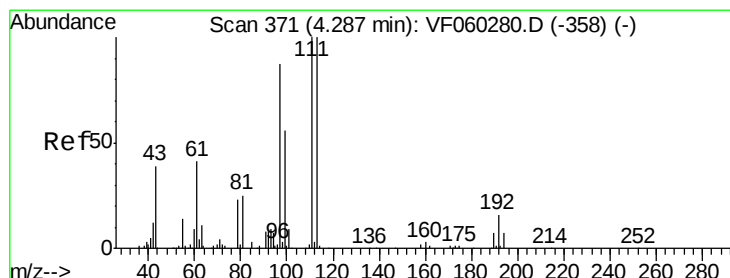
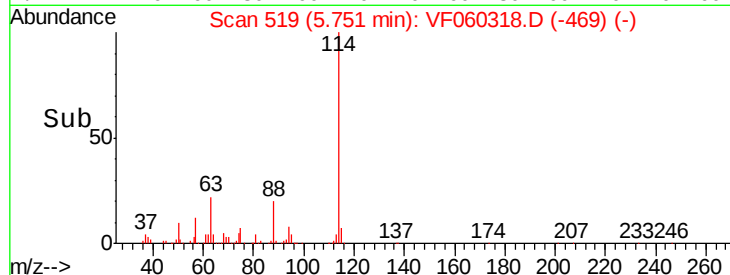
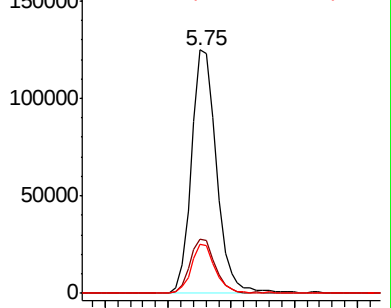
88 19.9 0.0 41.2



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: 46.930 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VF060318.D

Acq: 21 Sep 2018 17:56

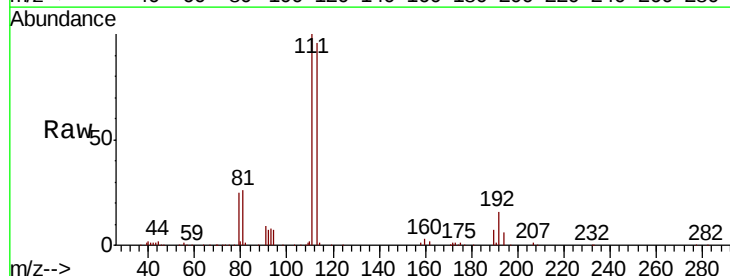
Tgt Ion:113 Resp: 144717

Ion Ratio Lower Upper

113 100

111 104.7 79.6 119.4

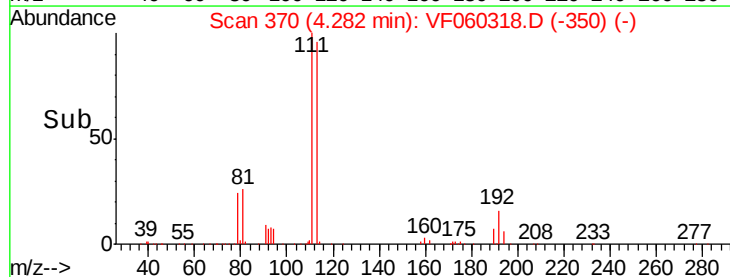
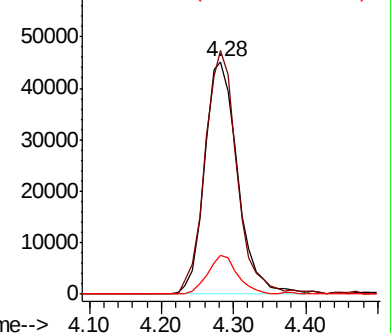
192 16.4 13.0 19.6

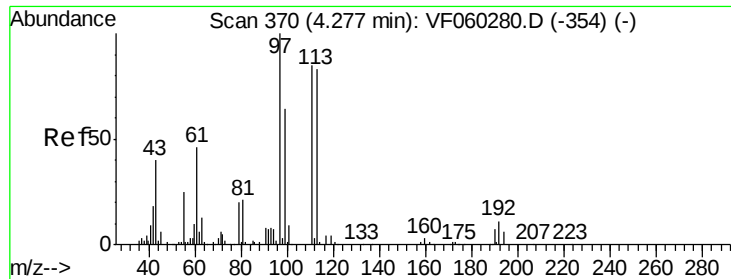


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

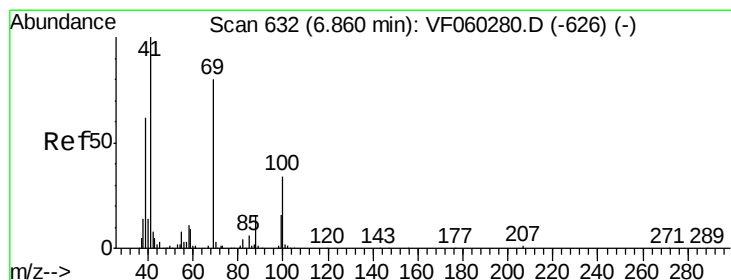
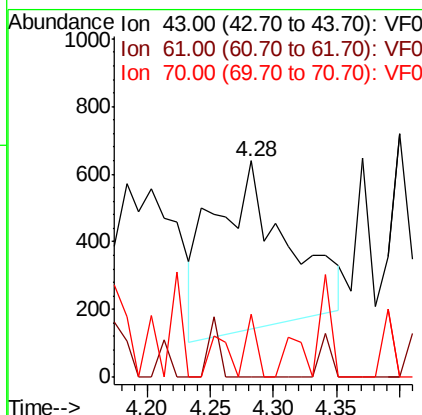
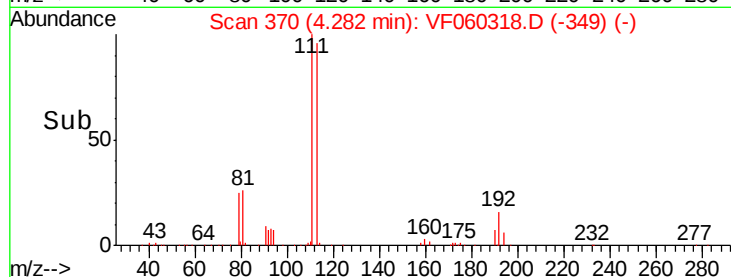
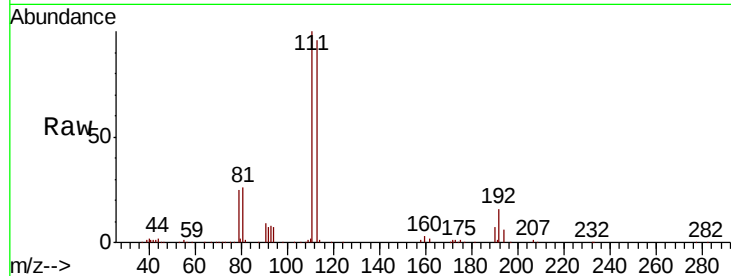




#37
Ethyl Acetate
Concen: 1.094 ug/l
RT: 4.28 min Scan# 370
Delta R.T. 0.01 min
Lab File: VF060318.D
Acq: 21 Sep 2018 17:56

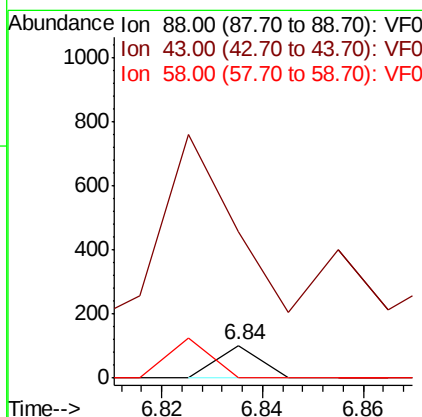
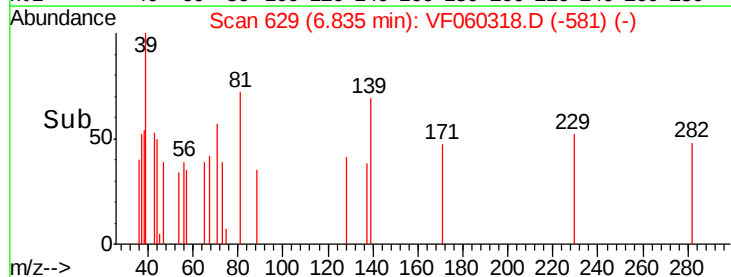
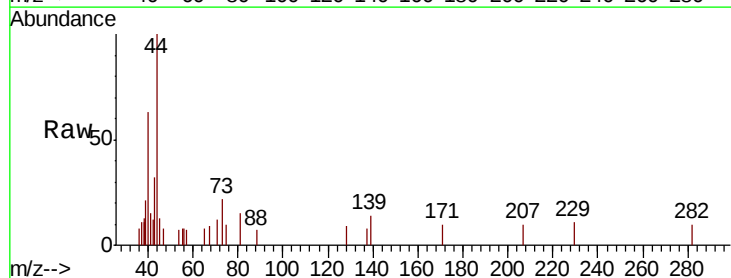
Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-A

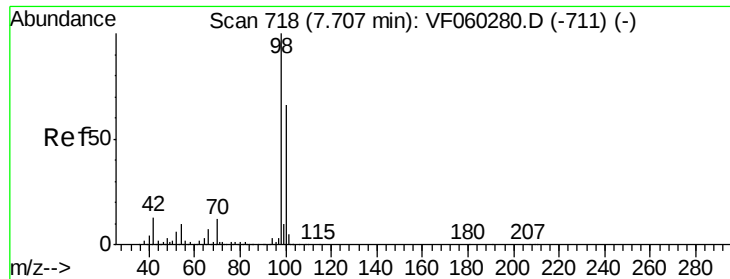
Tot Ion: 43 Resp: 1997
Ion Ratio Lower Upper
43 100
61 0.0 91.1 136.7#
70 29.0 6.9 10.3#



#49
1,4-Dioxane
Concen: 4.425 ug/l
RT: 6.84 min Scan# 629
Delta R.T. -0.02 min
Lab File: VF060318.D
Acq: 21 Sep 2018 17:56

Tgt Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 444.7 40.2 60.4#
58 0.0 56.7 85.1#

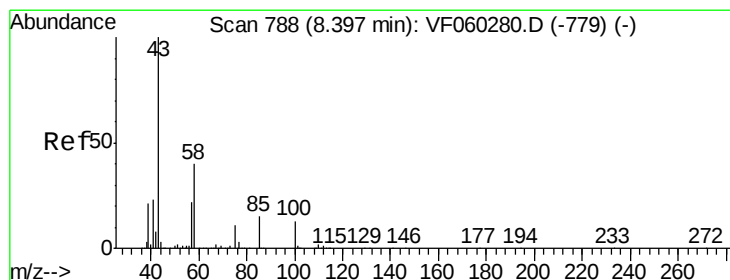
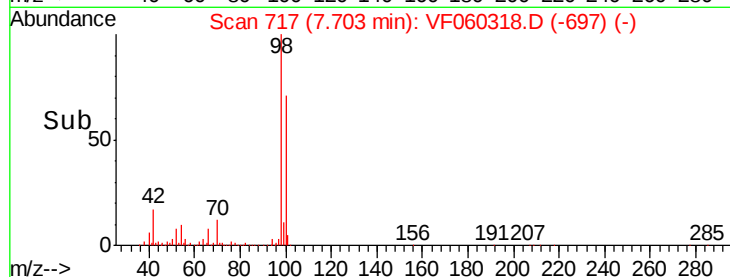
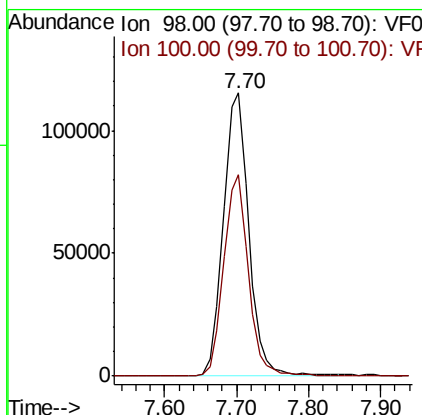
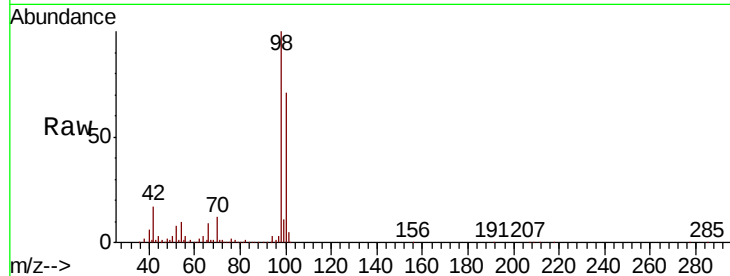




#50
Toluene-d8
Concen: 35.205 ug/l
RT: 7.70 min Scan# 717
Delta R.T. -0.00 min
Lab File: VF060318.D
Acq: 21 Sep 2018 17:56

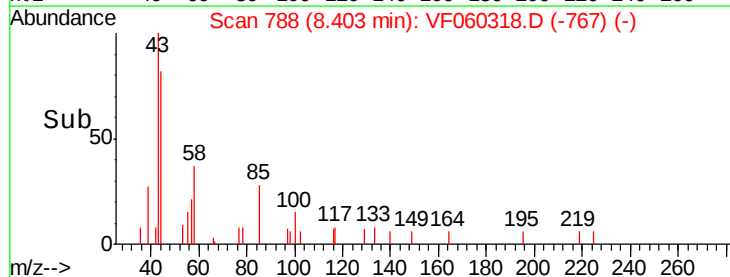
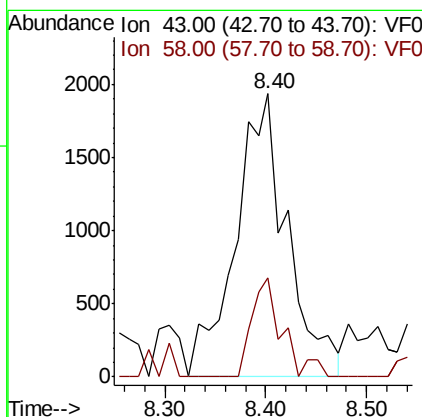
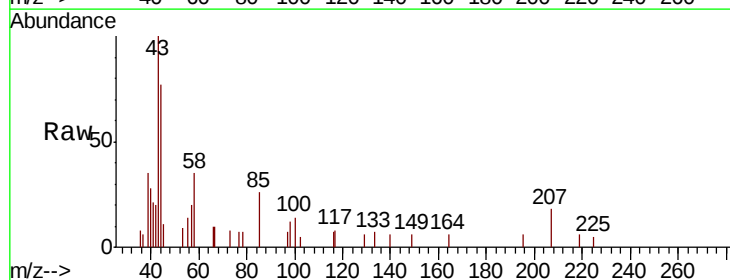
Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-A

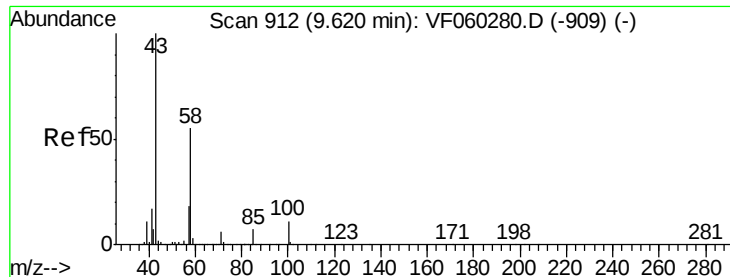
Tot Ion: 98 Resp: 282716
Ion Ratio Lower Upper
98 100
100 71.1 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 4.083 ug/l
RT: 8.40 min Scan# 788
Delta R.T. 0.01 min
Lab File: VF060318.D
Acq: 21 Sep 2018 17:56

Tgt Ion: 43 Resp: 6917
Ion Ratio Lower Upper
43 100
58 35.2 31.8 47.8

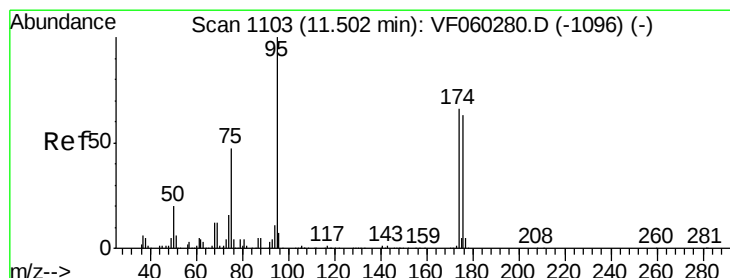
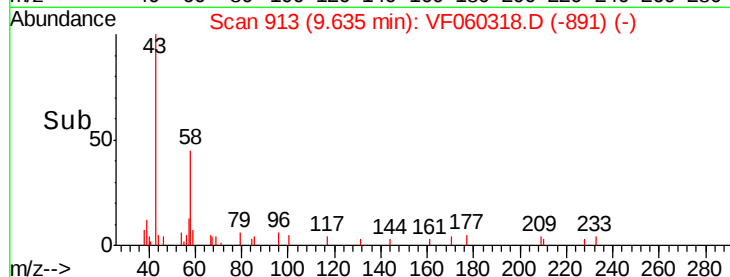
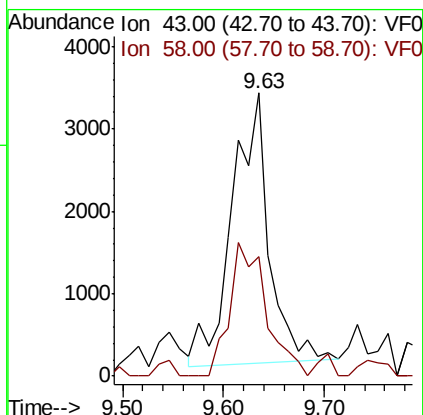
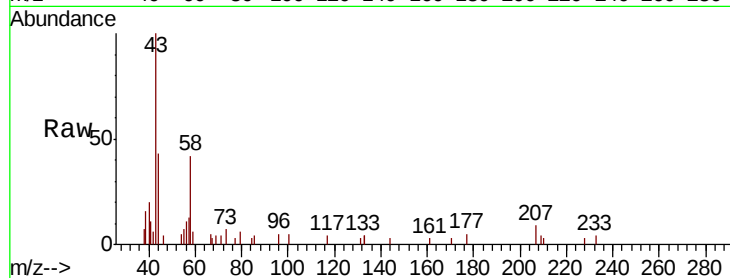




#59
2-Hexanone
Concen: 6.935 ug/l
RT: 9.63 min Scan# 913
Delta R.T. 0.01 min
Lab File: VF060318.D
Acq: 21 Sep 2018 17:56

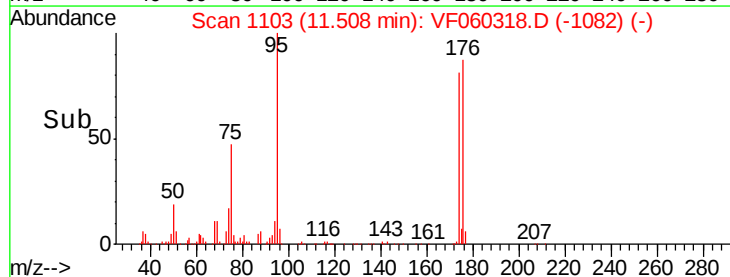
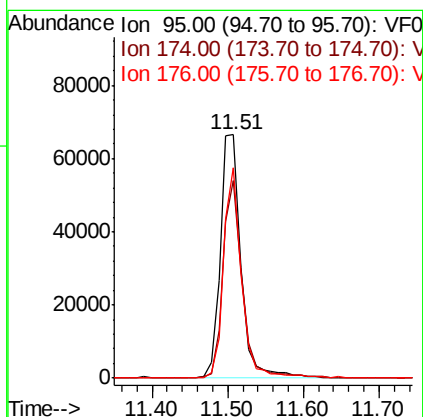
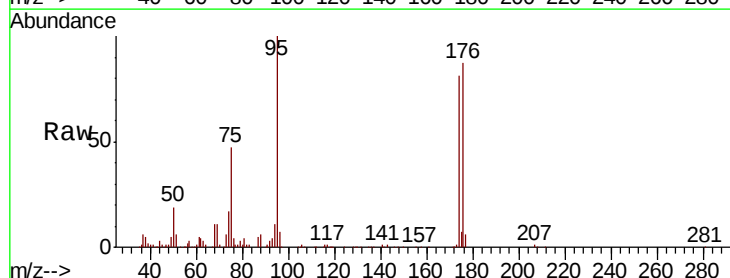
Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-A

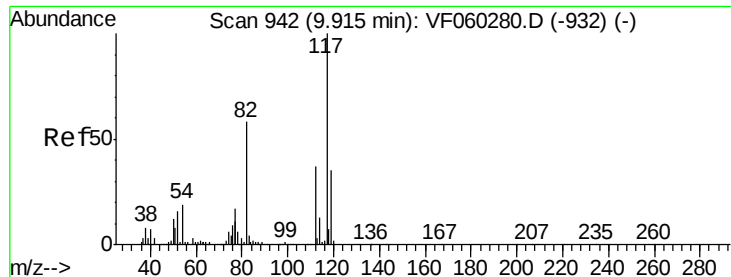
Tot Ion: 43 Resp: 8365
Ion Ratio Lower Upper
43 100
58 42.1 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 36.866 ug/l
RT: 11.51 min Scan# 1103
Delta R.T. 0.01 min
Lab File: VF060318.D
Acq: 21 Sep 2018 17:56

Tgt Ion: 95 Resp: 127973
Ion Ratio Lower Upper
95 100
174 81.3 0.0 131.2
176 86.6 0.0 126.6

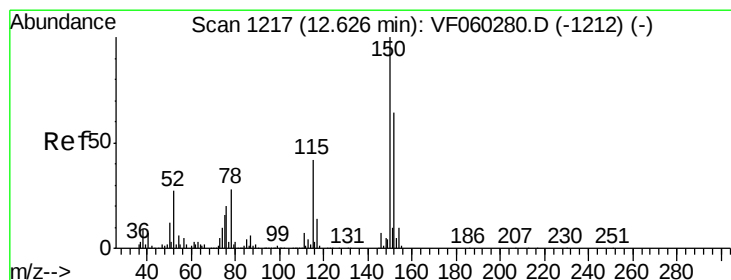
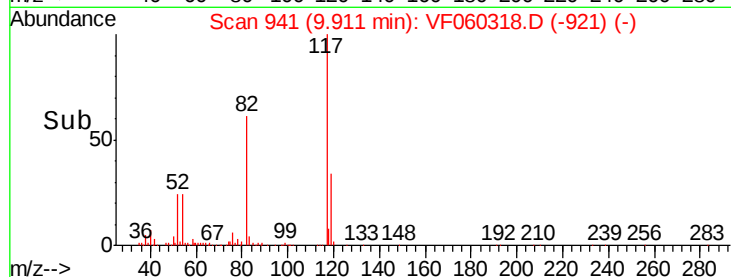
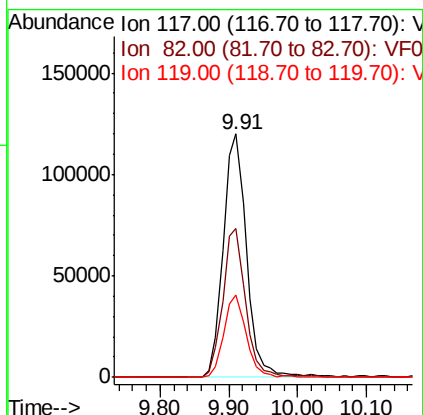
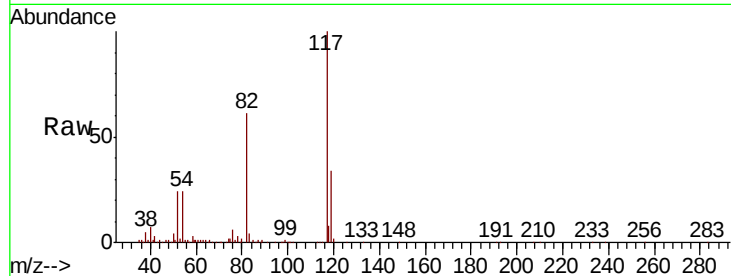




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.00 min
Lab File: VF060318.D
Acq: 21 Sep 2018 17:56

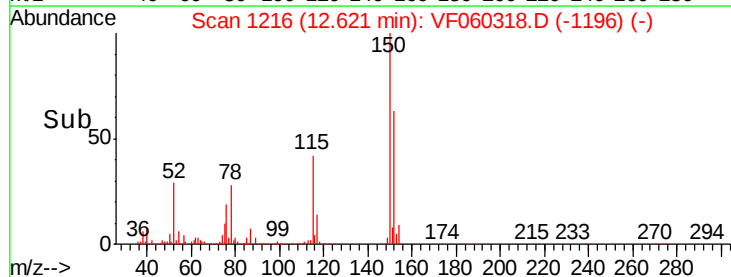
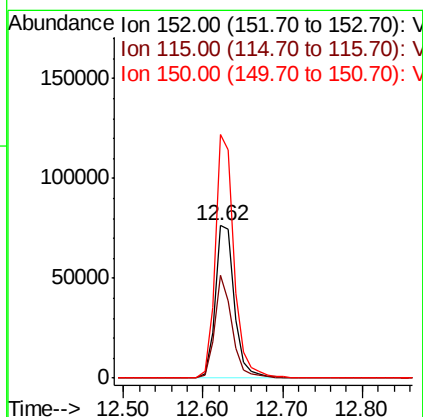
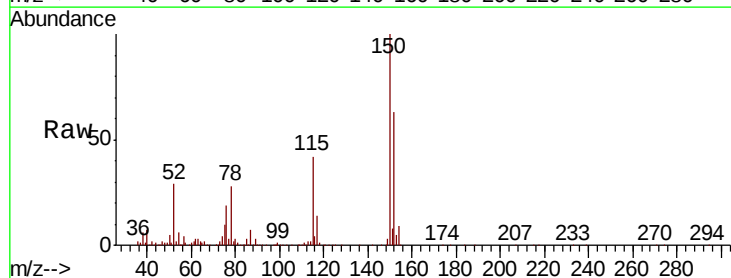
Instrument :
MSVOA_F
ClientSampleId :
PL-02-0920-18-A

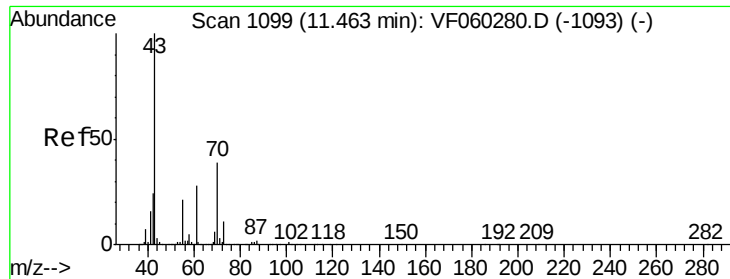
Tot Ion	Ratio	Lower	Upper
117	100		
82	61.1	46.2	69.2
119	33.7	27.8	41.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.00 min
Lab File: VF060318.D
Acq: 21 Sep 2018 17:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	67.4	32.6	97.8
150	159.6	0.0	314.2





#74

N-amvl acetate

Concen: 1.236 ug/l

RT: 11.46 min Scan# 1098

Delta R.T. -0.00 min

Lab File: VF060318.D

Acq: 21 Sep 2018 17:56

Instrument :

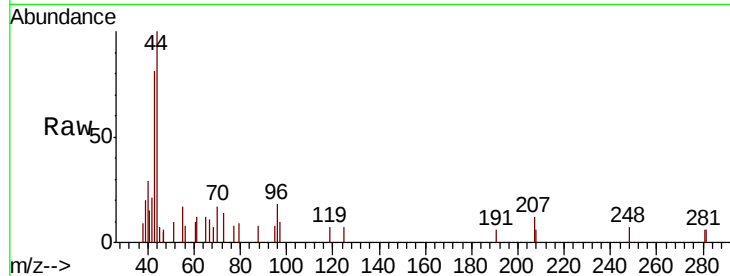
MSVOA_F

ClientSampleId :

PL-02-0920-18-A

Tot Ion: 43 Resp: 3103

Ion	Ratio	Lower	Upper
43	100		
70	20.8	31.4	47.2#
55	21.0	16.8	25.2
61	27.4	22.6	34.0

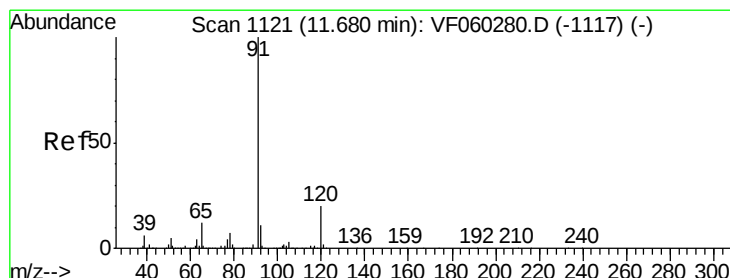
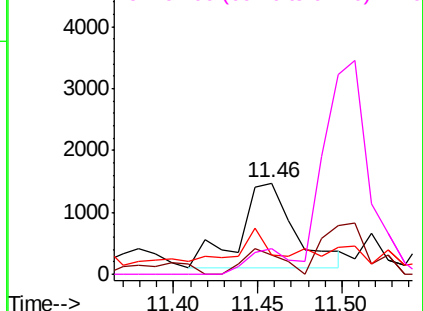
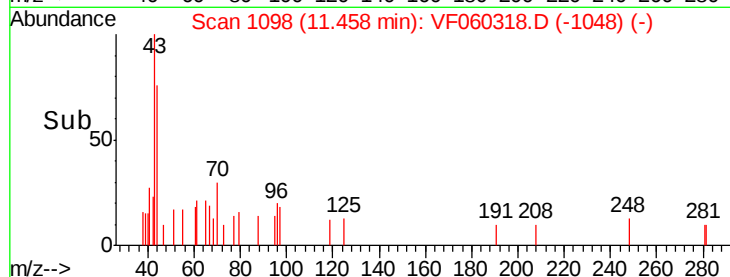


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 11.69 min Scan# 1121

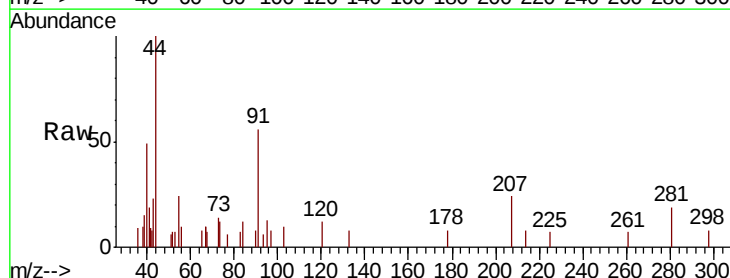
Delta R.T. 0.01 min

Lab File: VF060318.D

Acq: 21 Sep 2018 17:56

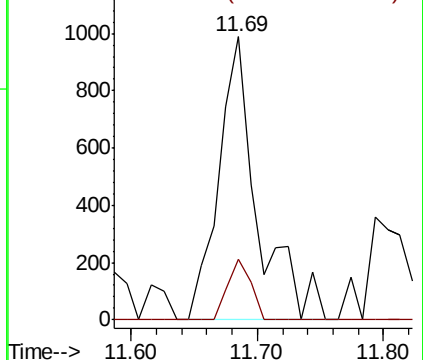
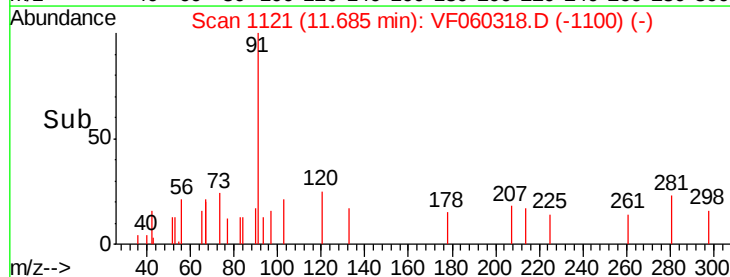
Tgt Ion: 91 Resp: 2102

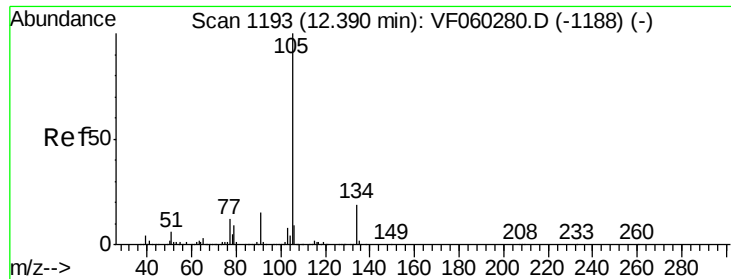
Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.0	29.8



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: VF060318.D

Acq: 21 Sep 2018 17:56

Instrument :

MSVOA_F

ClientSampleId :

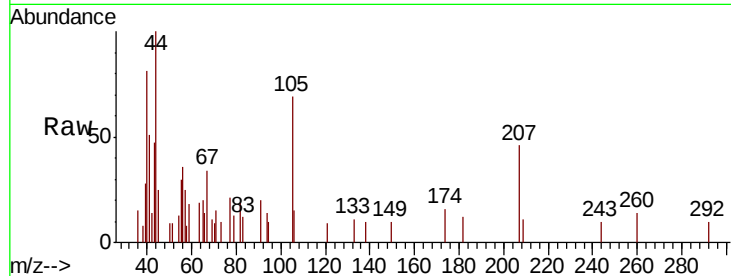
PL-02-0920-18-A

Tot Ion:105 Resp: 1354

Ion Ratio Lower Upper

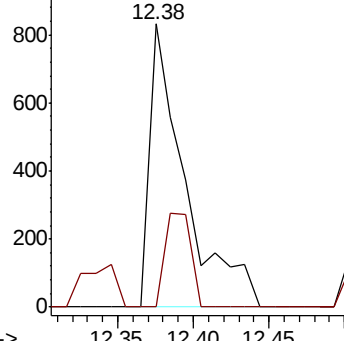
105 100

134 0.0 9.6 28.6#

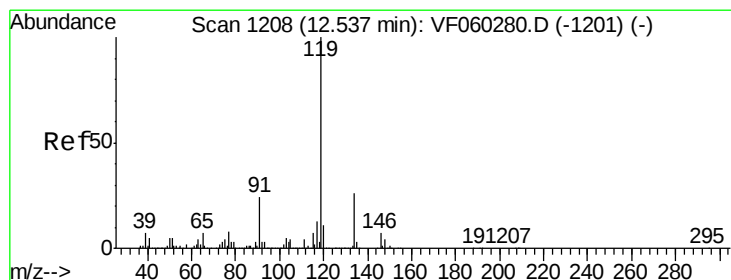
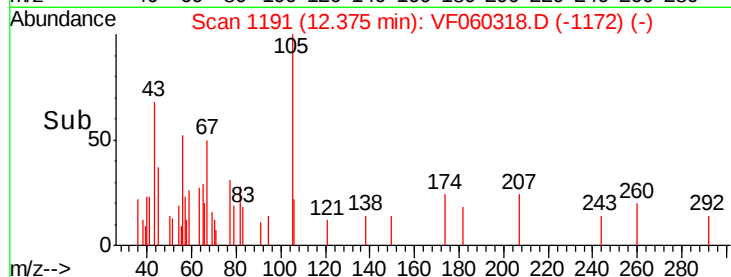


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: Below Cal

RT: 12.54 min Scan# 1208

Delta R.T. 0.01 min

Lab File: VF060318.D

Acq: 21 Sep 2018 17:56

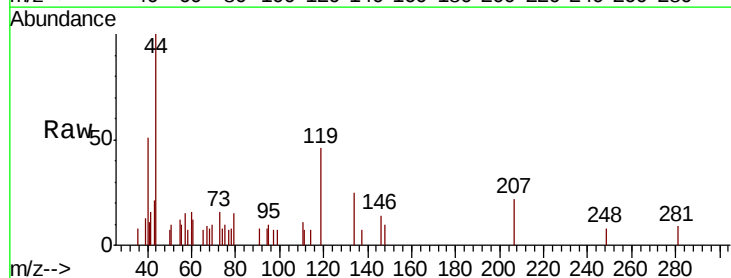
Tgt Ion:119 Resp: 1103

Ion Ratio Lower Upper

119 100

134 54.2 12.9 38.7#

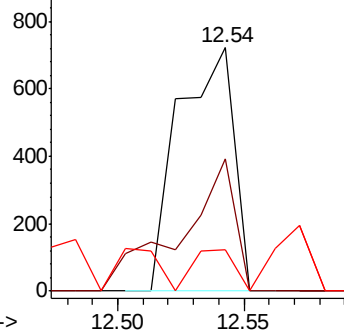
91 17.0 11.9 35.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0



Time-->

