

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092618\
 Data File : VF060363.D
 Acq On : 26 Sep 2018 20:30
 Operator : VA/AP
 Sample : J5077-04
 Misc : 5.80/5mL/MSVOA F/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 PARCEL-190-092418-2

Quant Time: Sep 27 03:07:57 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	265508	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	458187	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	317918	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	104544	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	239982	67.13	ug/l	0.00
Spiked Amount			Recovery	=	134.26%	
35) Dibromofluoromethane	4.28	113	235033	57.54	ug/l	-0.01
Spiked Amount			Recovery	=	115.08%	
50) Toluene-d8	7.70	98	449680	42.28	ug/l	-0.01
Spiked Amount			Recovery	=	84.56%	
62) 4-Bromofluorobenzene	11.50	95	151090	32.86	ug/l	0.00
Spiked Amount			Recovery	=	65.72%	

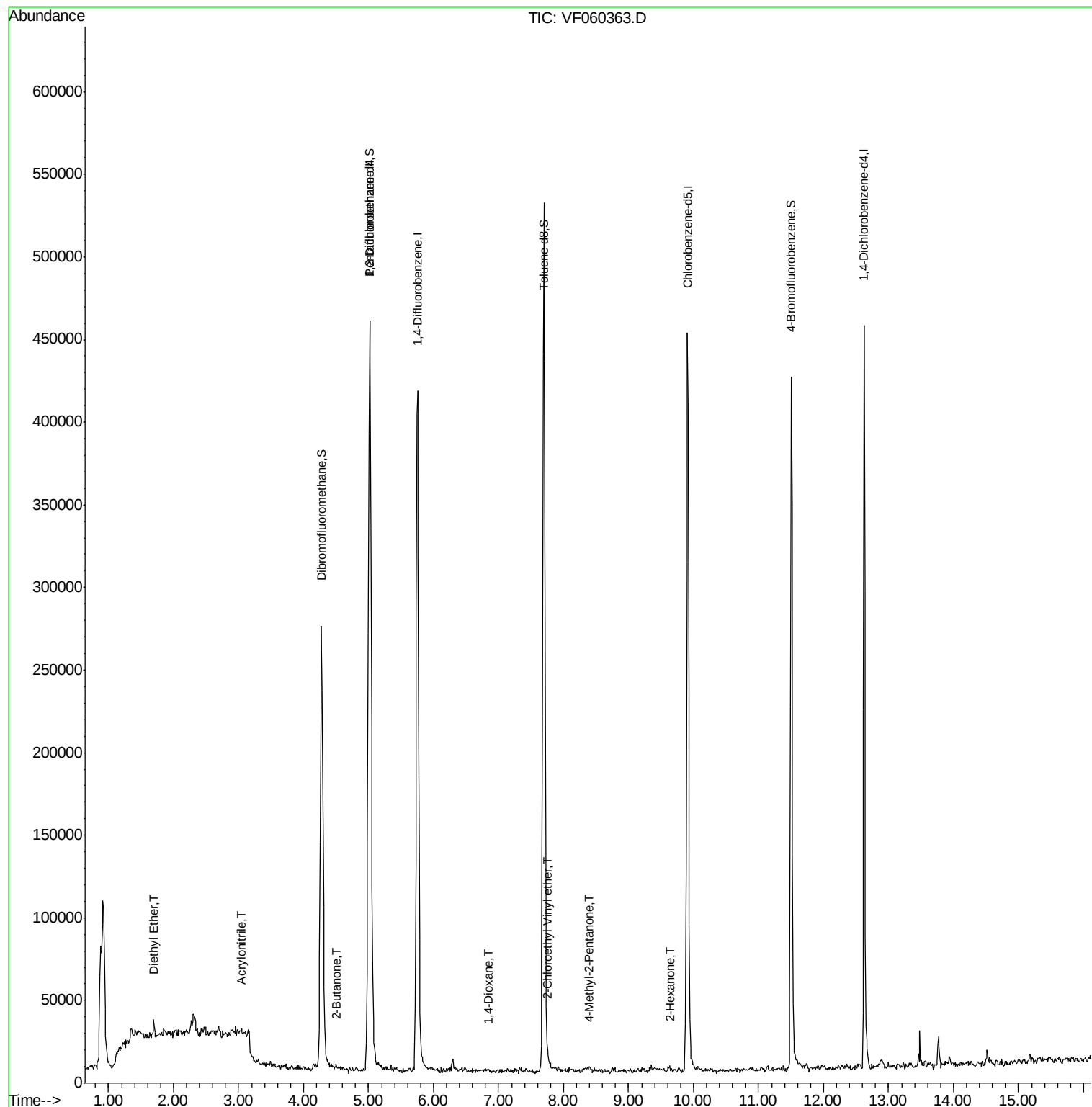
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.98	85	422	Below Cal	#	40
5) Bromomethane	1.26	94	1051	Below Cal		98
8) Diethyl Ether	1.69	74	2551	2.232	ug/l	65
11) Tert butyl alcohol	2.69	59	894	Below Cal	#	1
13) Acrolein	2.07	56	1325	Below Cal		86
15) Acrylonitrile	3.05	53	630	1.248	ug/l #	57
17) Carbon Disulfide	1.90	76	238	Below Cal	#	70
20) Methylene Chloride	2.27	84	3998	Below Cal	#	80
25) 2-Butanone	4.50	43	1682	1.241	ug/l #	82
49) 1,4-Dioxane	6.85	88	67	3.670	ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	3116	1.389	ug/l #	85
58) 2-Chloroethyl Vinyl ether	7.76	63	380	1.430	ug/l	100
59) 2-Hexanone	9.63	43	2654	1.661	ug/l	81
78) n-propylbenzene	11.69	91	737	Below Cal		80
85) sec-Butylbenzene	12.38	105	847	Below Cal	#	59
86) p-Isopropyltoluene	12.54	119	1029	Below Cal	#	72
89) n-Butylbenzene	12.92	91	1675	Below Cal	#	58

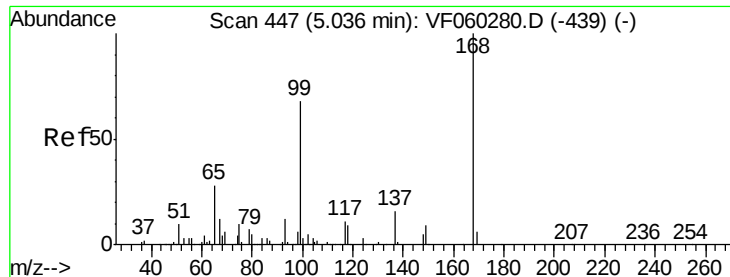
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF060363.D

Acq: 26 Sep 2018 20:30

Instrument :

MSVOA_F

ClientSampleId :

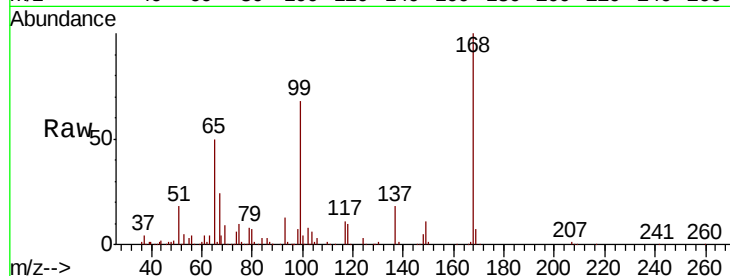
PARCEL-190-092418-2

Tot Ion:168 Resp: 265508

Ion Ratio Lower Upper

168 100

99 68.0 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

5.03

100000

80000

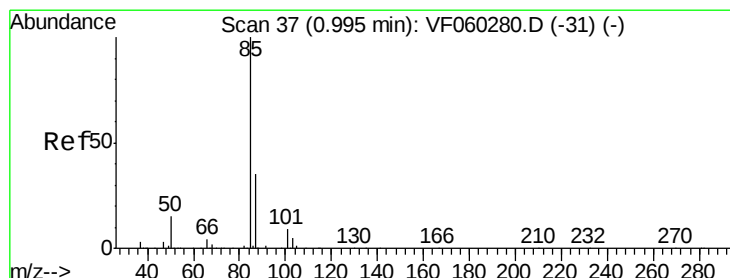
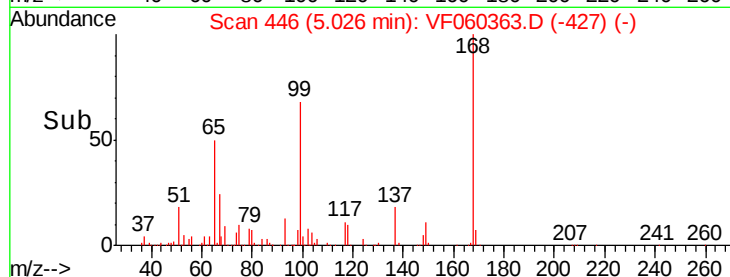
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 36

Delta R.T. -0.01 min

Lab File: VF060363.D

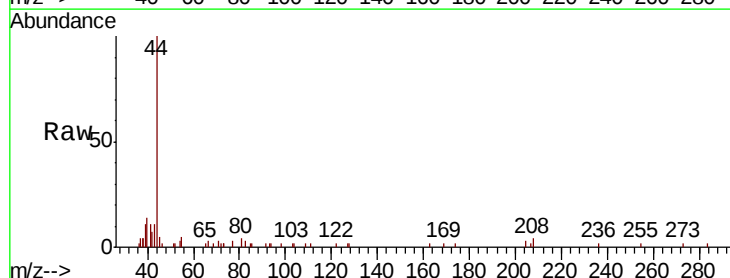
Acq: 26 Sep 2018 20:30

Tgt Ion: 85 Resp: 422

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

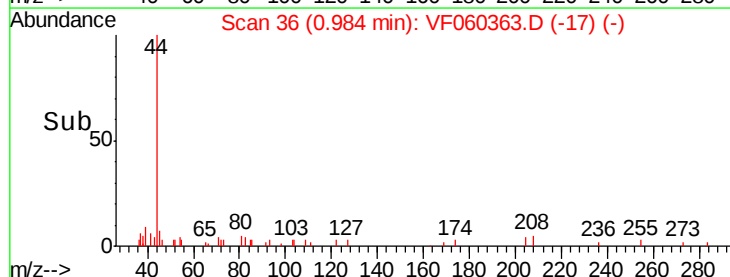
150

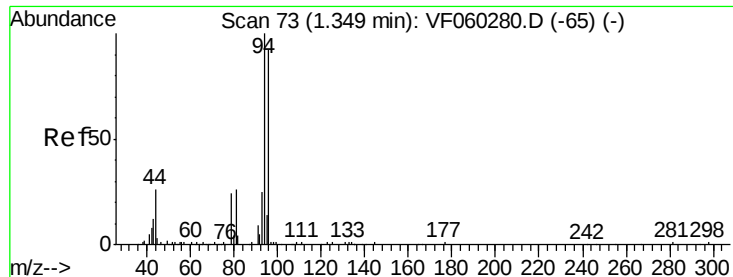
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.26 min Scan# 64

Delta R.T. -0.09 min

Lab File: VF060363.D

Acq: 26 Sep 2018 20:30

Instrument :

MSVOA_F

ClientSampleId :

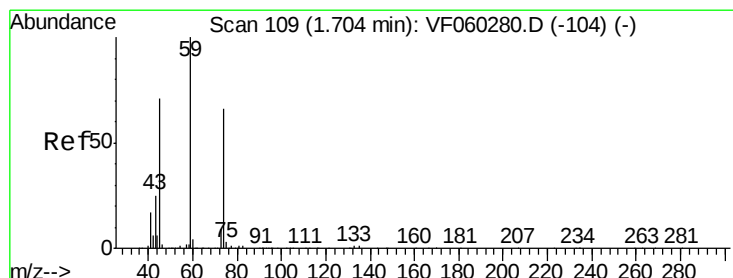
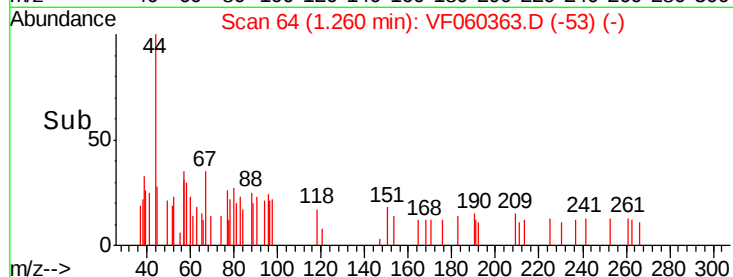
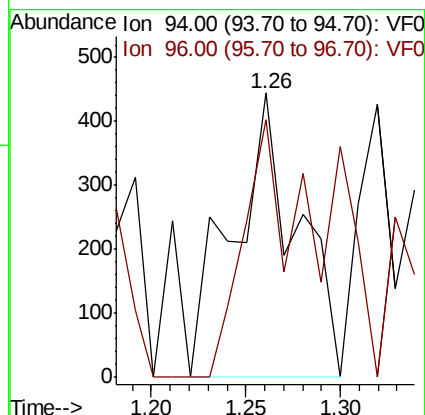
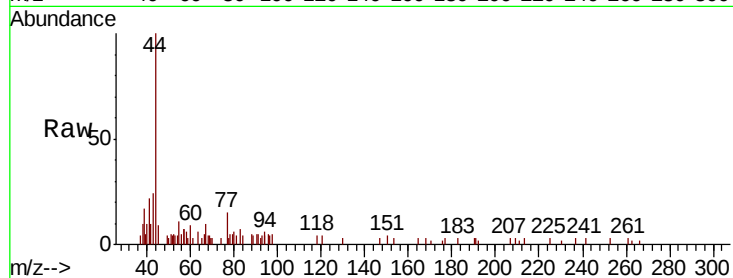
PARCEL-190-092418-2

Tot Ion: 94 Resp: 1051

Ion Ratio Lower Upper

94 100

96 90.8 73.9 110.9



#8

Diethyl Ether

Concen: 2.232 ug/l

RT: 1.69 min Scan# 108

Delta R.T. -0.01 min

Lab File: VF060363.D

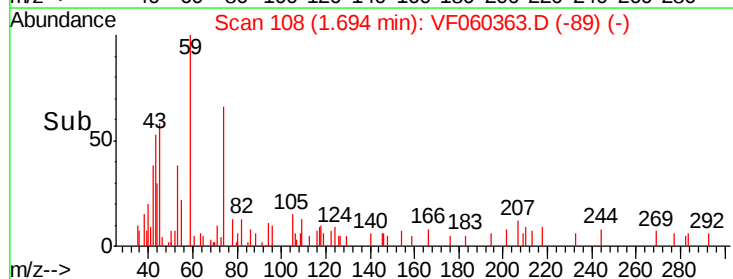
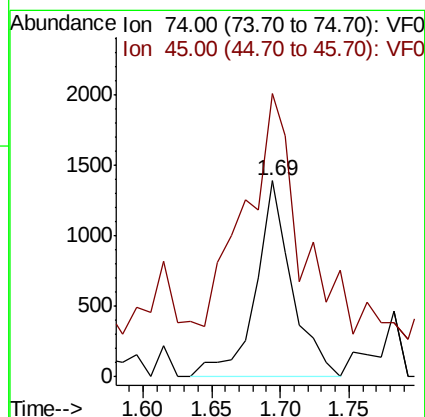
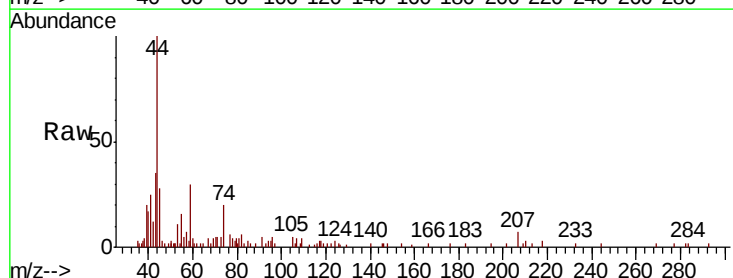
Acq: 26 Sep 2018 20:30

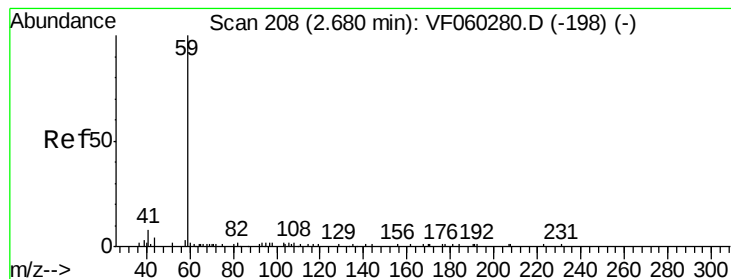
Tgt Ion: 74 Resp: 2551

Ion Ratio Lower Upper

74 100

45 144.4 53.9 161.7



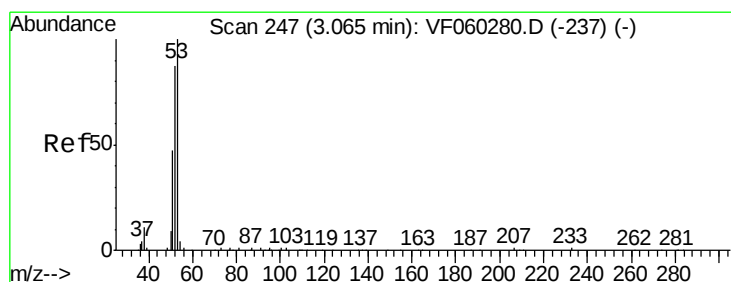
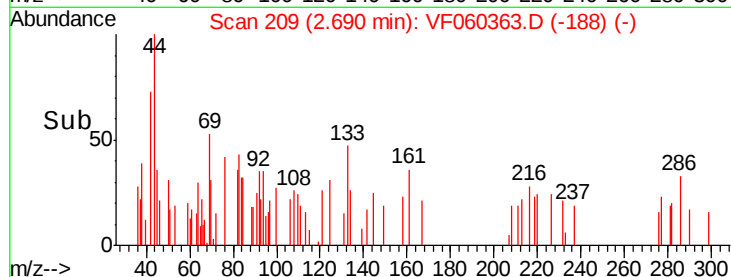
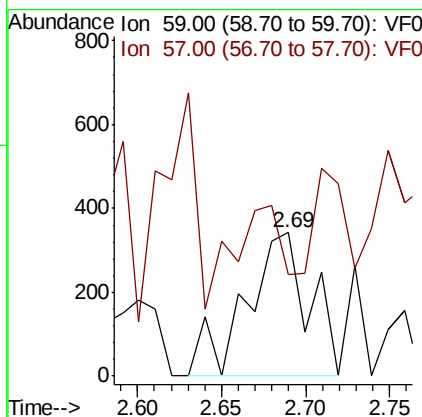
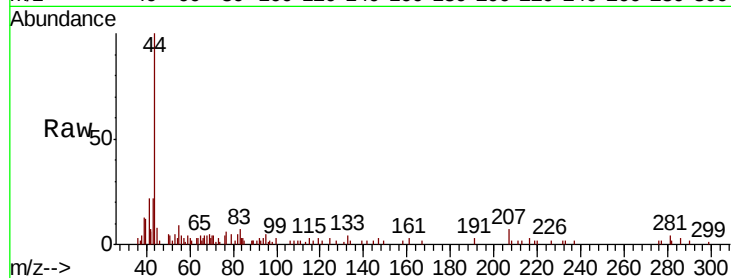


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.69 min Scan# 209
 Delta R.T. 0.01 min
 Lab File: VF060363.D
 Acq: 26 Sep 2018 20:30

Instrument :
 MSVOA_F
 ClientSampleId :
 PARCEL-190-092418-2

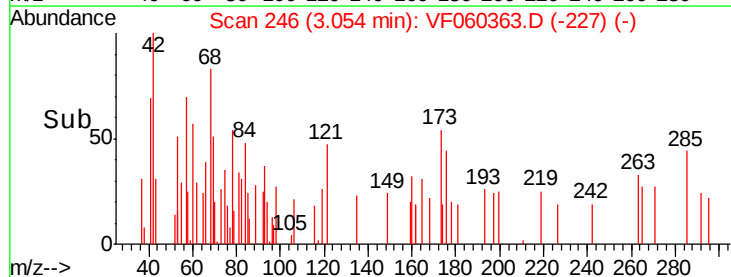
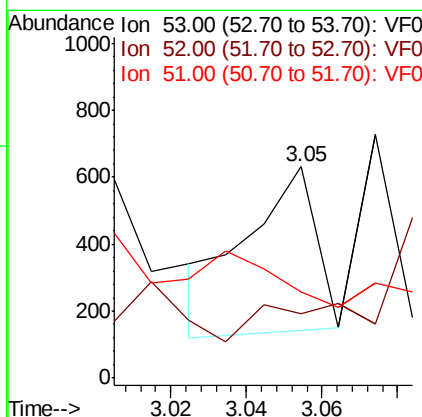
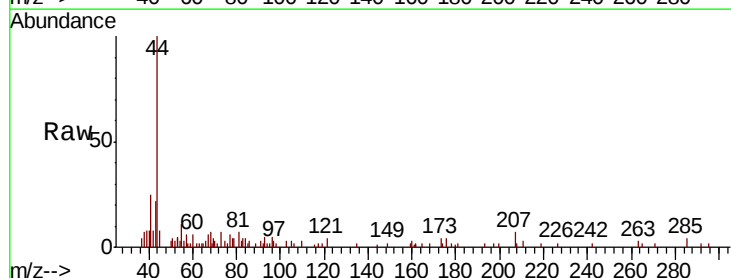
Tot Ion: 59 Resp: 894
 Ion Ratio Lower Upper
 59 100
 57 70.5 12.4 18.6#

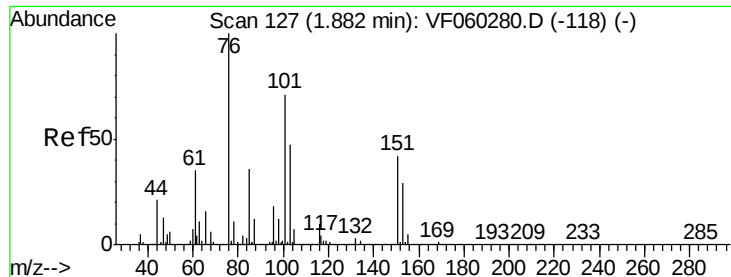


#15

Acrylonitrile
 Concen: 1.248 ug/l
 RT: 3.05 min Scan# 246
 Delta R.T. -0.01 min
 Lab File: VF060363.D
 Acq: 26 Sep 2018 20:30

Tgt Ion: 53 Resp: 630
 Ion Ratio Lower Upper
 53 100
 52 30.4 69.5 104.3#
 51 40.7 38.1 57.1

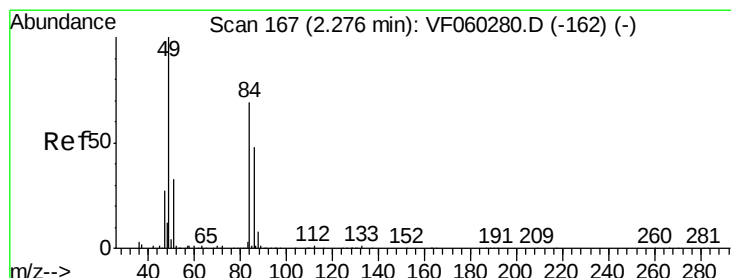
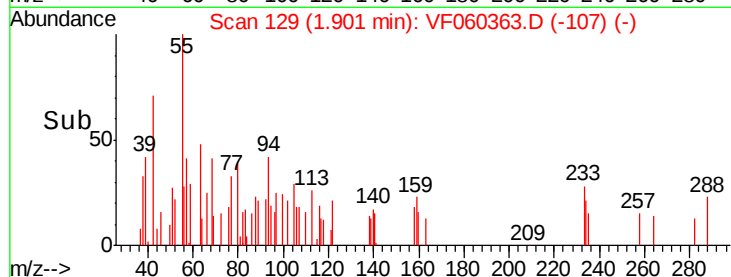
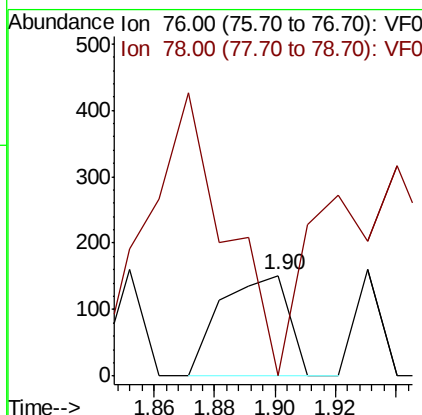
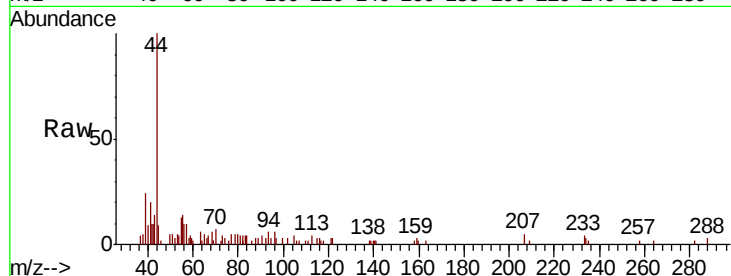




#17
Carbon Disulfide
Concen: Below Cal
RT: 1.90 min Scan# 129
Delta R.T. 0.02 min
Lab File: VF060363.D
Acq: 26 Sep 2018 20:30

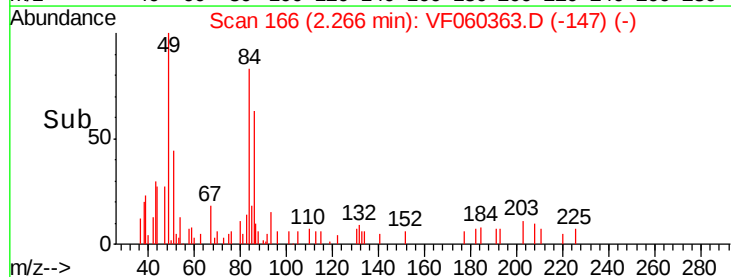
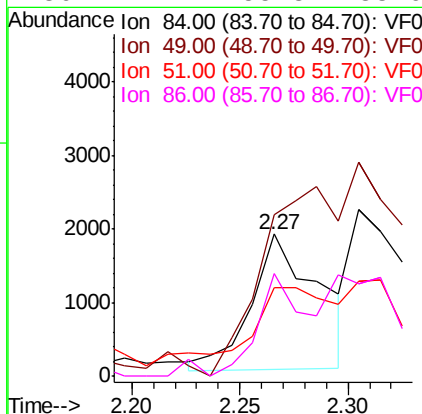
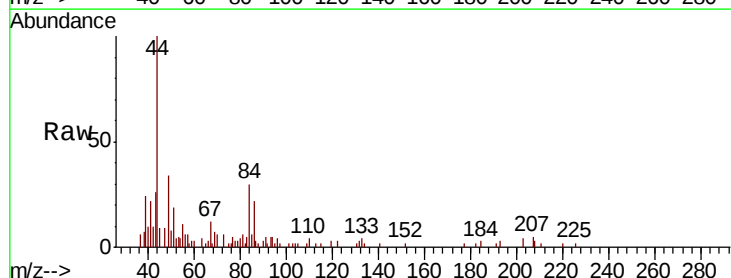
Instrument :
MSVOA_F
ClientSampleId :
PARCEL-190-092418-2

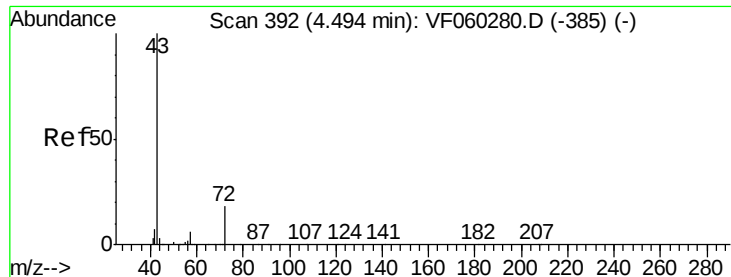
Tot Ion: 76 Resp: 238
Ion Ratio Lower Upper
76 100
78 0.0 9.4 14.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. -0.01 min
Lab File: VF060363.D
Acq: 26 Sep 2018 20:30

Tgt Ion: 84 Resp: 3998
Ion Ratio Lower Upper
84 100
49 114.0 118.3 177.5#
51 62.6 38.7 58.1#
86 72.2 55.8 83.6





#25

2-Butanone

Concen: 1.241 ug/l

RT: 4.50 min Scan# 393

Delta R.T. 0.01 min

Lab File: VF060363.D

Acq: 26 Sep 2018 20:30

Instrument :

MSVOA_F

ClientSampleId :

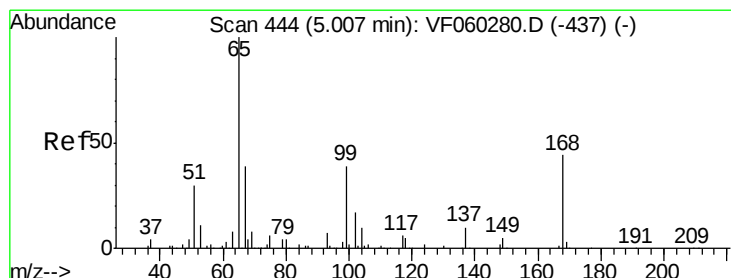
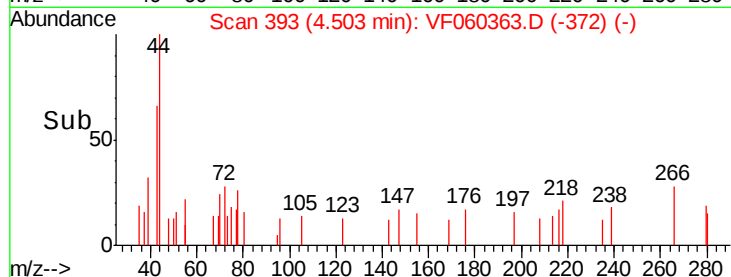
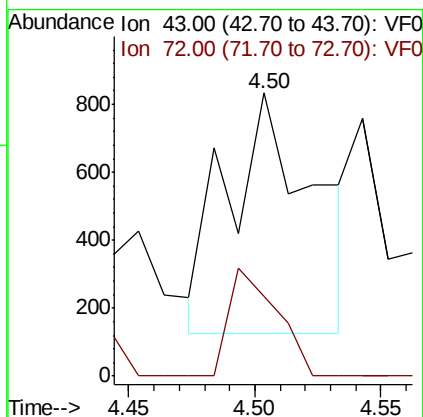
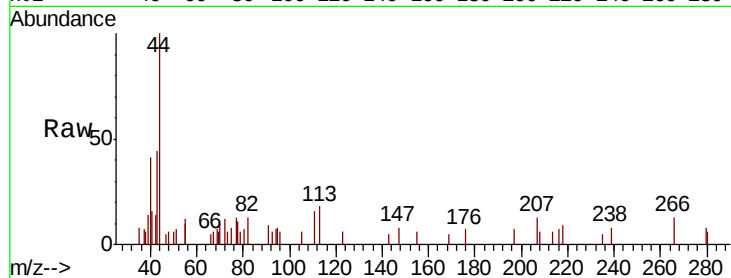
PARCEL-190-092418-2

Tot Ion: 43 Resp: 1682

Ion Ratio Lower Upper

43 100

72 28.5 16.2 24.2#



#33

1,2-Dichloroethane-d4

Concen: 67.125 ug/l

RT: 5.01 min Scan# 444

Delta R.T. -0.00 min

Lab File: VF060363.D

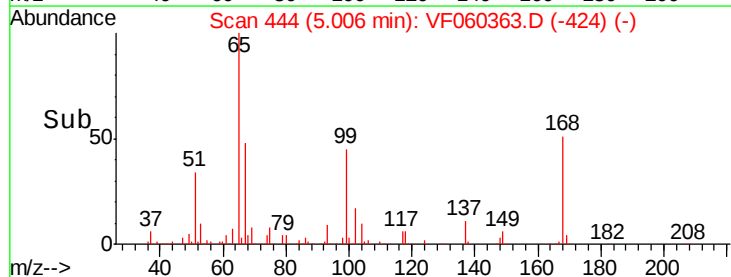
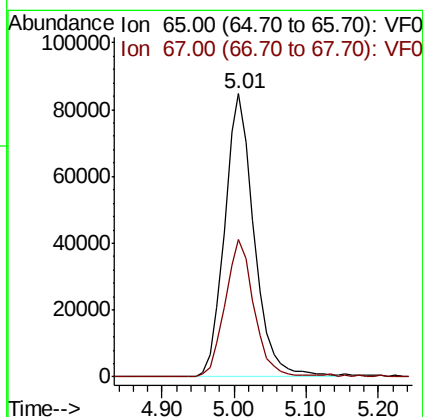
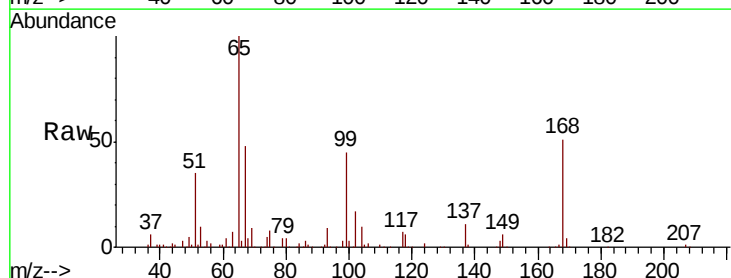
Acq: 26 Sep 2018 20:30

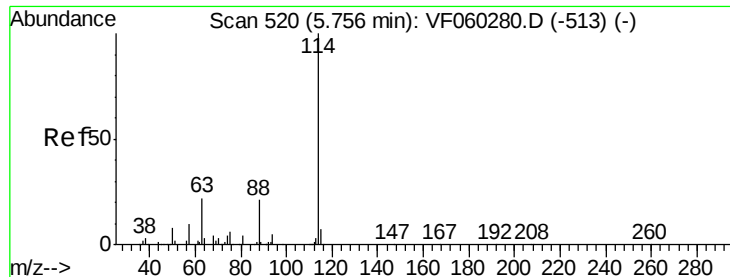
Tgt Ion: 65 Resp: 239982

Ion Ratio Lower Upper

65 100

67 48.4 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: VF060363.D

Acq: 26 Sep 2018 20:30

Instrument :

MSVOA_F

ClientSampleId :

PARCEL-190-092418-2

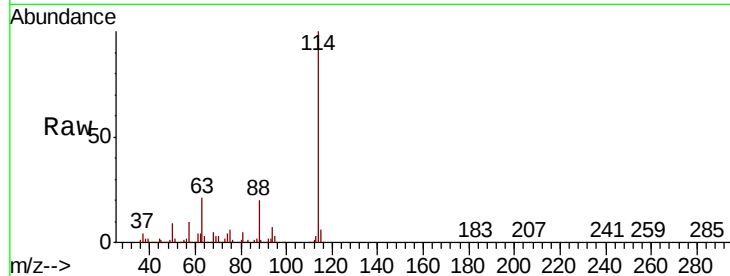
Tot Ion:114 Resp: 458187

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.8

88 19.5 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

200000

150000

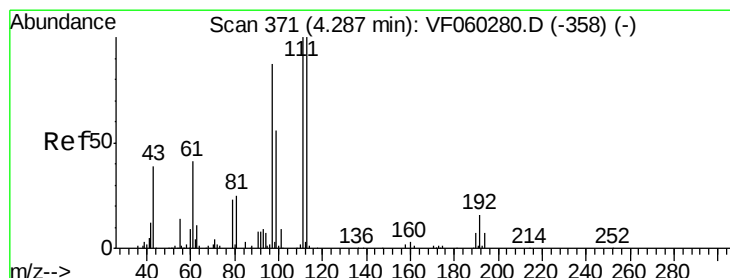
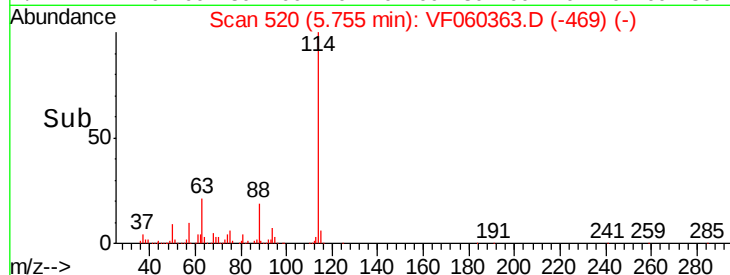
100000

50000

0

5.60 5.70 5.80 5.90

Time-->



#35

Dibromofluoromethane

Concen: 57.544 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF060363.D

Acq: 26 Sep 2018 20:30

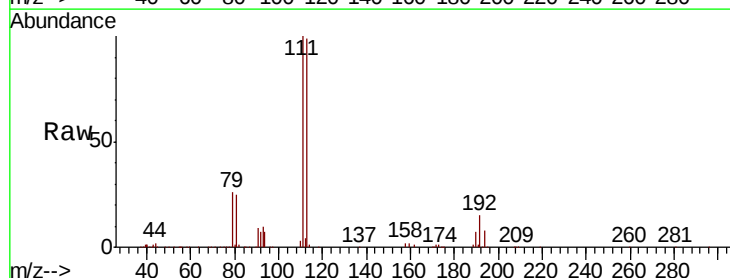
Tgt Ion:113 Resp: 235033

Ion Ratio Lower Upper

113 100

111 101.0 79.6 119.4

192 15.0 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

100000

80000

60000

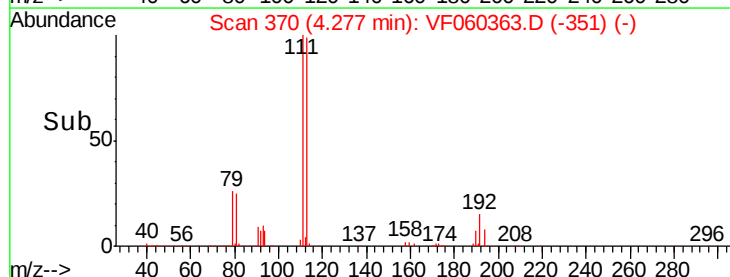
40000

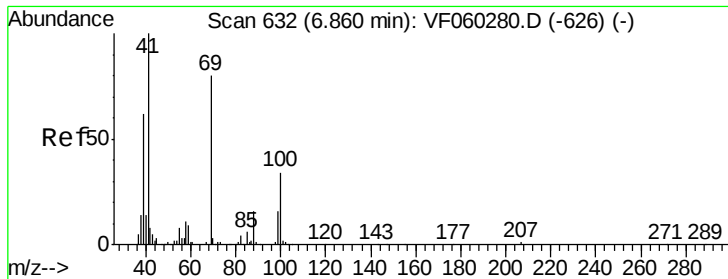
20000

0

4.10 4.20 4.30 4.40

Time-->





#49

1,4-Dioxane

Concen: 3.670 ug/l

RT: 6.85 min Scan# 631

Delta R.T. -0.01 min

Lab File: VF060363.D

Acq: 26 Sep 2018 20:30

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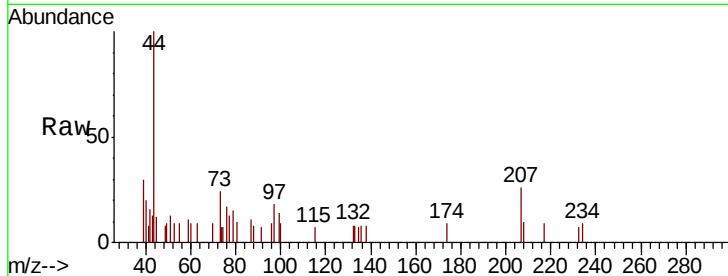
Tot Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 173.7 40.2 60.4#

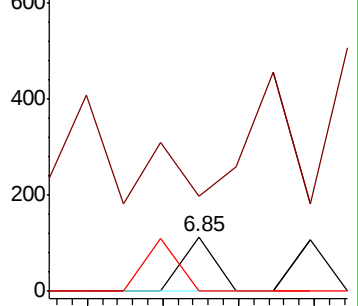
58 0.0 56.7 85.1#



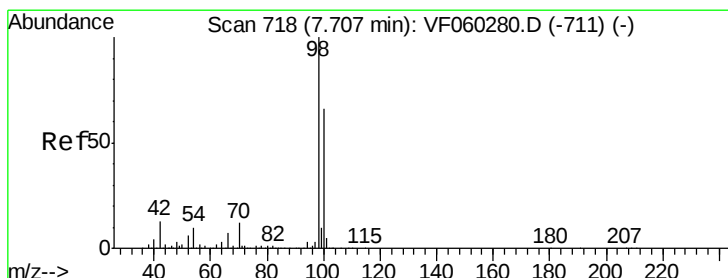
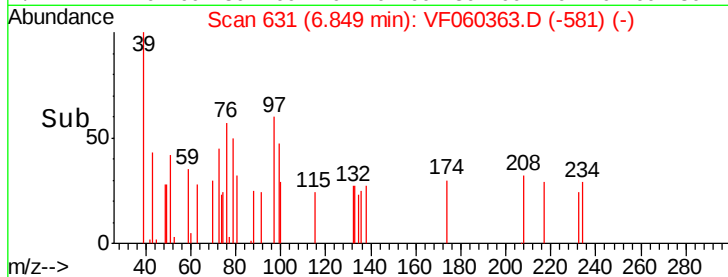
Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#50

Toluene-d8

Concen: 42.276 ug/l

RT: 7.70 min Scan# 717

Delta R.T. -0.01 min

Lab File: VF060363.D

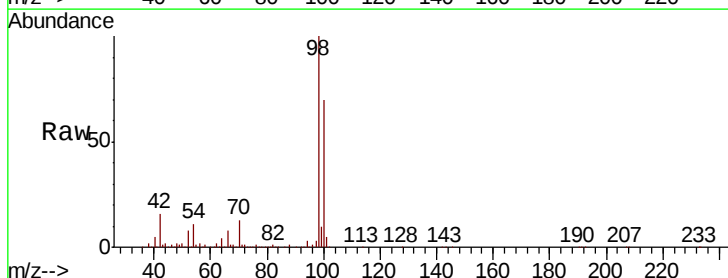
Acq: 26 Sep 2018 20:30

Tgt Ion: 98 Resp: 449680

Ion Ratio Lower Upper

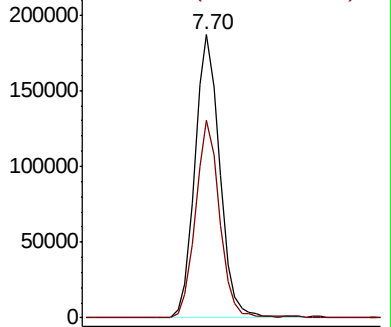
98 100

100 69.7 53.0 79.6

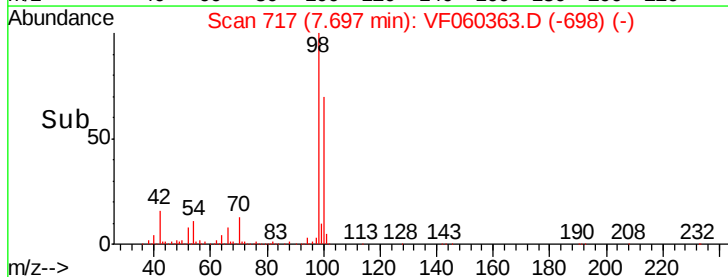


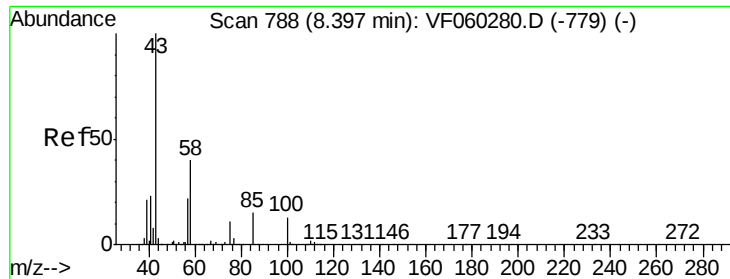
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.389 ug/l

RT: 8.40 min Scan# 788

Delta R.T. -0.00 min

Lab File: VF060363.D

Acq: 26 Sep 2018 20:30

Instrument :

MSVOA_F

ClientSampleId :

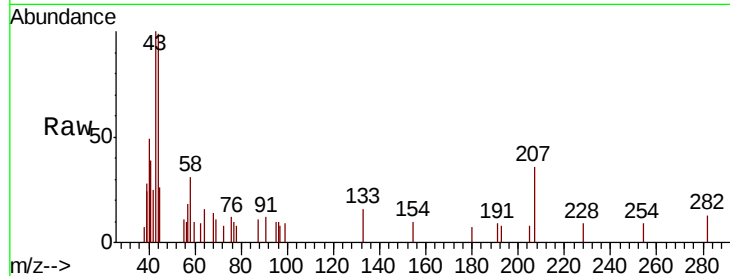
PARCEL-190-092418-2

Tot Ion: 43 Resp: 3116

Ion Ratio Lower Upper

43 100

58 30.8 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.40

1500

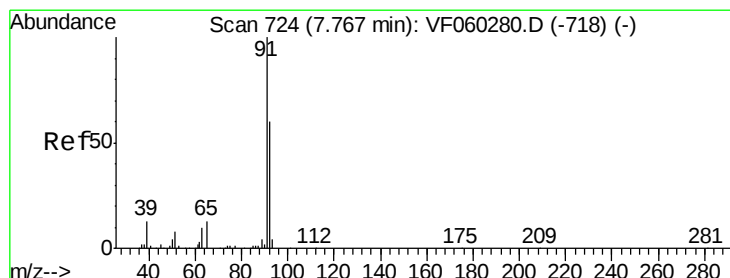
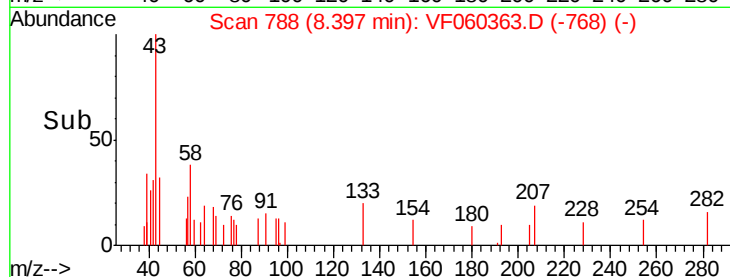
1000

500

0

8.30 8.35 8.40 8.45

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1.430 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.01 min

Lab File: VF060363.D

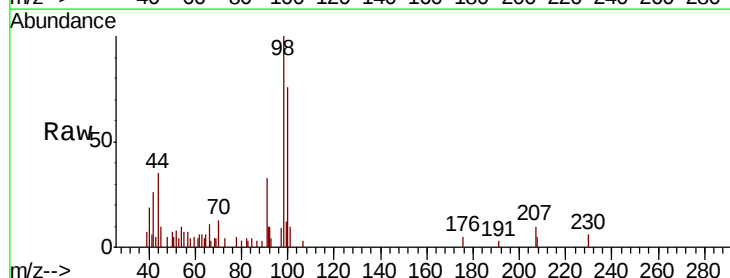
Acq: 26 Sep 2018 20:30

Tgt Ion: 63 Resp: 380

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

300

250

200

150

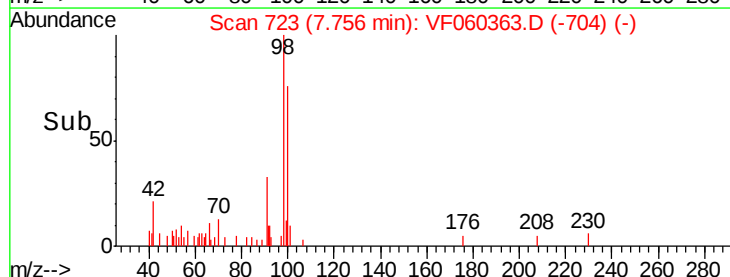
100

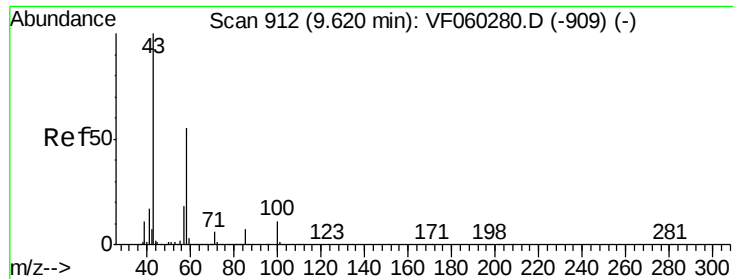
50

0

7.70 7.75 7.80

Time-->

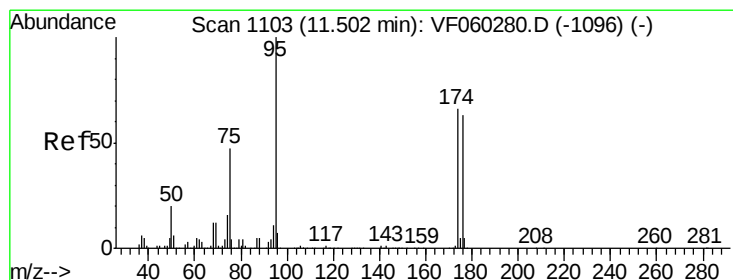
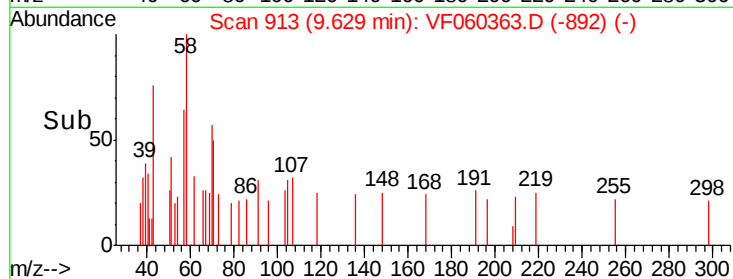
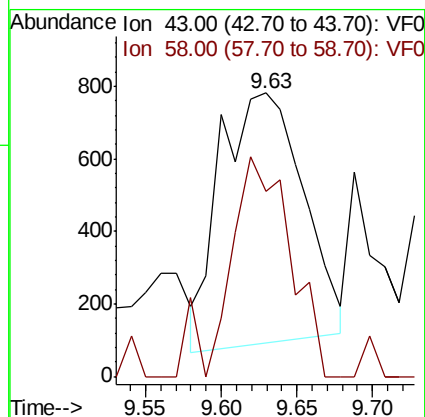
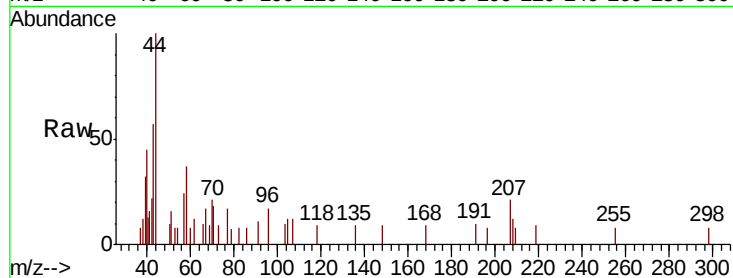




#59
2-Hexanone
Concen: 1.661 ug/l
RT: 9.63 min Scan# 913
Delta R.T. 0.01 min
Lab File: VF060363.D
Acq: 26 Sep 2018 20:30

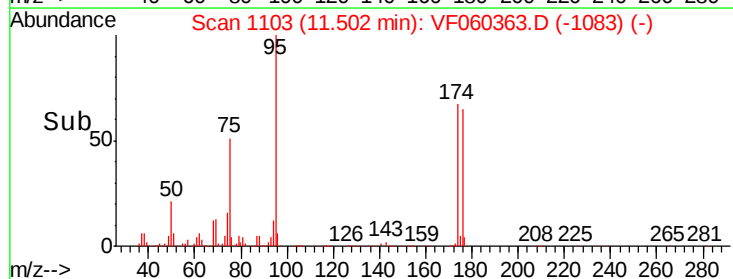
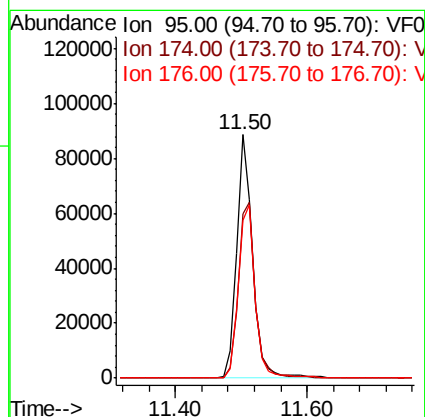
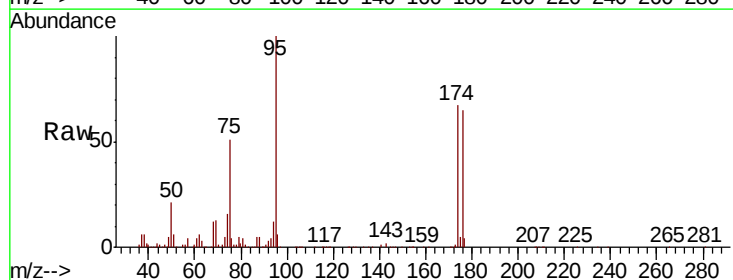
Instrument :
MSVOA_F
ClientSampleId :
PARCEL-190-092418-2

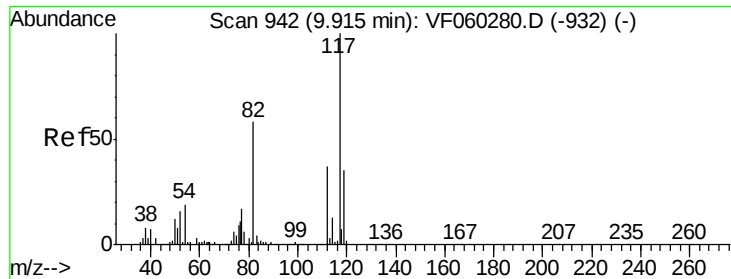
Tot Ion: 43 Resp: 2654
Ion Ratio Lower Upper
43 100
58 65.2 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 32.861 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. -0.00 min
Lab File: VF060363.D
Acq: 26 Sep 2018 20:30

Tgt Ion: 95 Resp: 151090
Ion Ratio Lower Upper
95 100
174 67.3 0.0 131.2
176 64.8 0.0 126.6

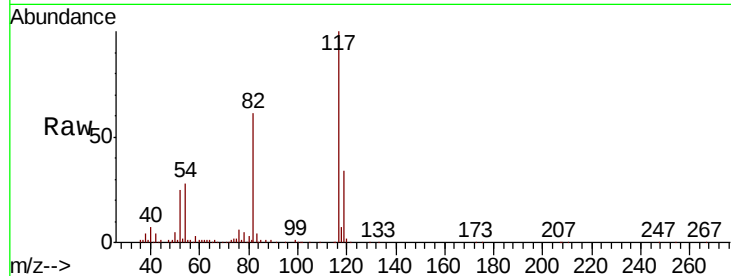




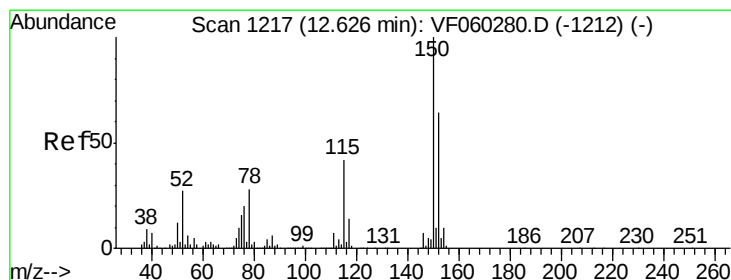
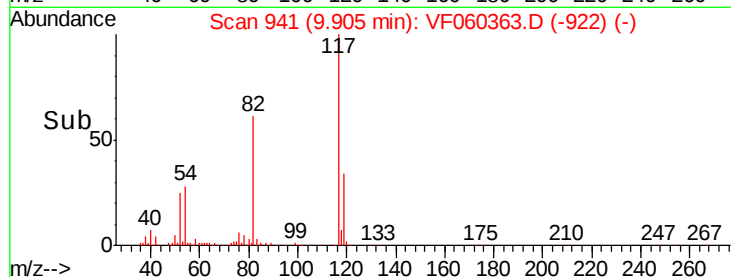
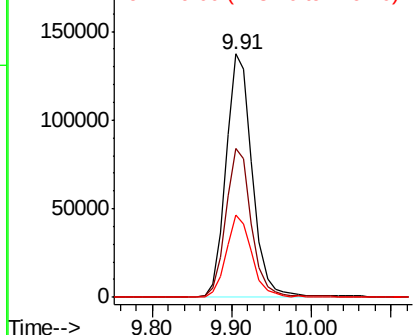
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060363.D
Acq: 26 Sep 2018 20:30

Instrument :
MSVOA_F
ClientSampleId :
PARCEL-190-092418-2

Tot Ion:117 Resp: 317918
Ion Ratio Lower Upper
117 100
82 61.0 46.2 69.2
119 33.7 27.8 41.6

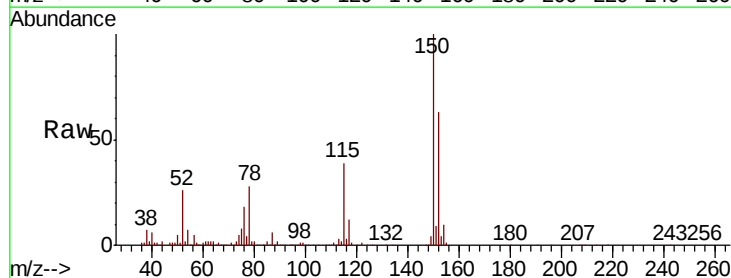


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

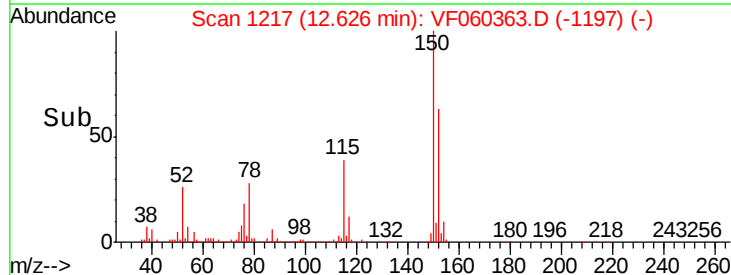
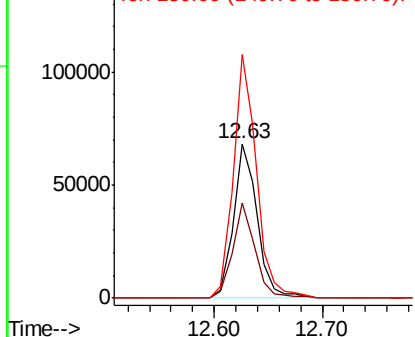


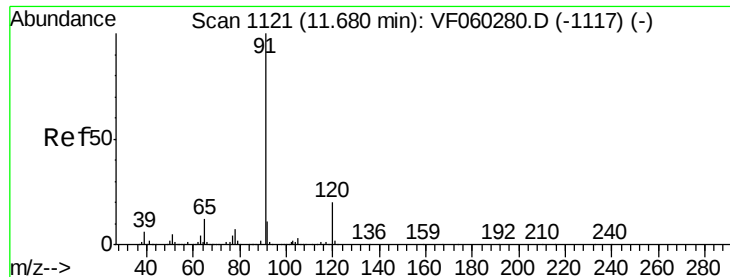
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VF060363.D
Acq: 26 Sep 2018 20:30

Tgt Ion:152 Resp: 104544
Ion Ratio Lower Upper
152 100
115 62.0 32.6 97.8
150 157.6 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





#78

n-propylbenzene

Concen: Below Cal

RT: 11.69 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF060363.D

Acq: 26 Sep 2018 20:30

Instrument :

MSVOA_F

ClientSampleId :

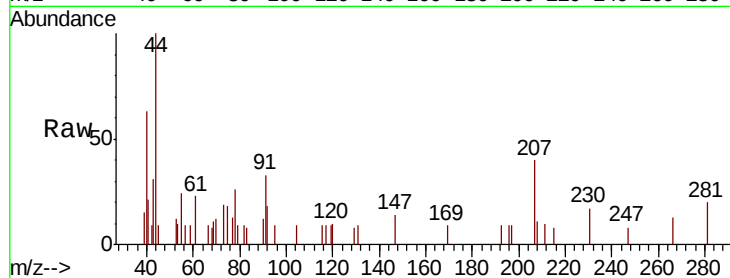
PARCEL-190-092418-2

Tot Ion: 91 Resp: 737

Ion Ratio Lower Upper

91 100

120 28.9 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.69

400

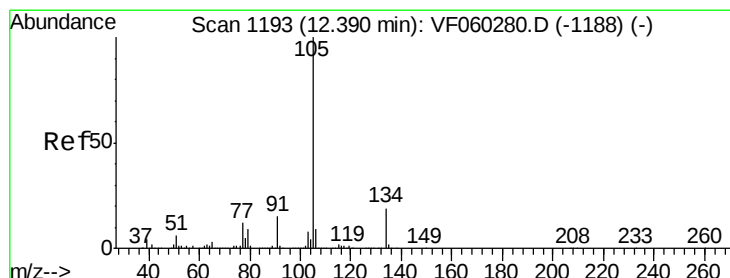
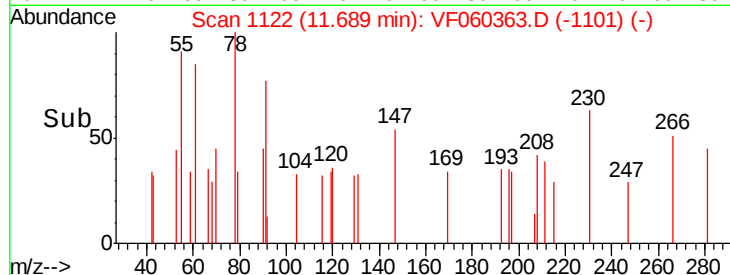
300

200

100

0

Time-->



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060363.D

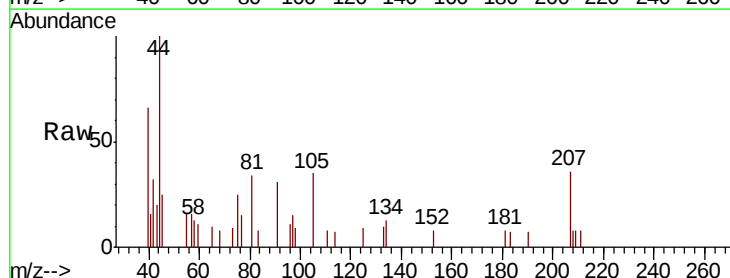
Acq: 26 Sep 2018 20:30

Tgt Ion: 105 Resp: 847

Ion Ratio Lower Upper

105 100

134 37.6 9.6 28.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.38

500

400

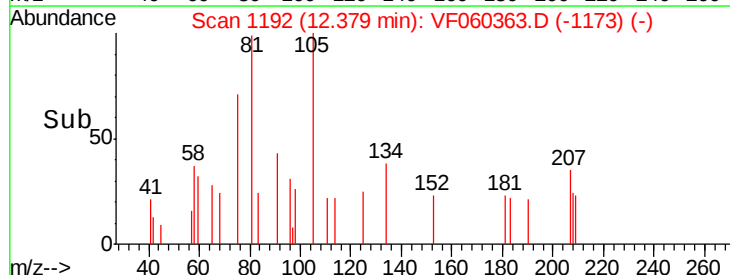
300

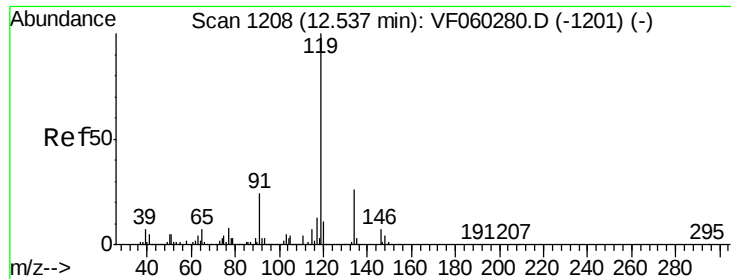
200

100

0

Time-->





#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.54 min Scan# 1208
 Delta R.T. 0.00 min
 Lab File: VF060363.D
 Acq: 26 Sep 2018 20:30

Instrument :
 MSVOA_F
 ClientSampleId :
 PARCEL-190-092418-2

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.9	38.7#
91	22.5	11.9	35.7

