

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092618\
 Data File : VF060364.D
 Acq On : 26 Sep 2018 20:58
 Operator : VA/AP
 Sample : J5077-05
 Misc : 4.92/5mL/MSVOA F/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 PARCEL-193-092418-1

Quant Time: Sep 27 03:08:12 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	343846	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	561659	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	404016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	170029	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	277204	59.87	ug/l	0.00
Spiked Amount						
			Recovery	=	119.74%	
35) Dibromofluoromethane	4.28	113	268387	53.60	ug/l	0.00
Spiked Amount						
			Recovery	=	107.20%	
50) Toluene-d8	7.69	98	576912	44.25	ug/l	-0.01
Spiked Amount						
			Recovery	=	88.50%	
62) 4-Bromofluorobenzene	11.50	95	196054	34.78	ug/l	0.00
Spiked Amount						
			Recovery	=	69.56%	

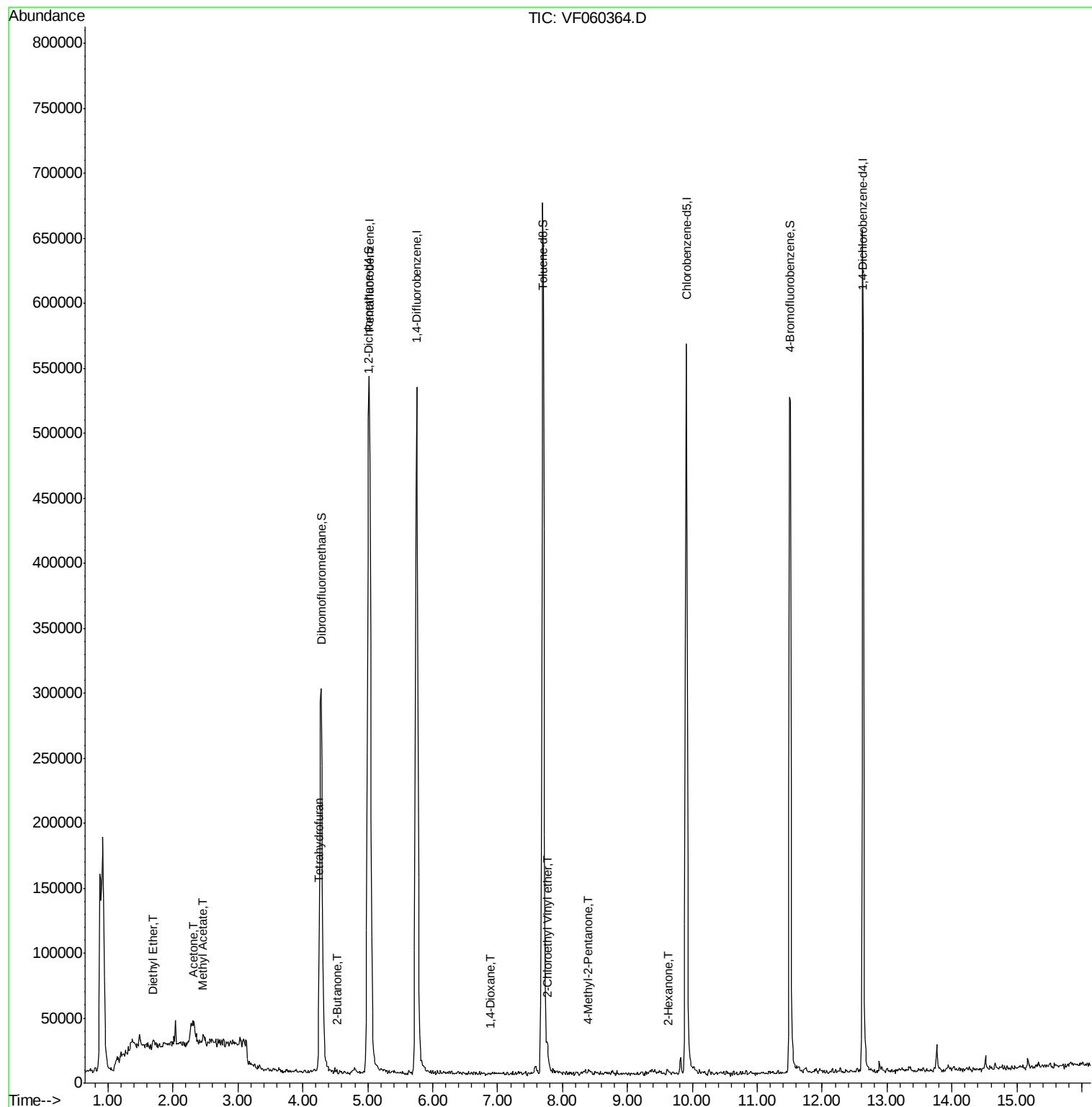
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	801	Below Cal		90
5) Bromomethane	1.36	94	299	Below Cal		87
8) Diethyl Ether	1.70	74	2614	1.766	ug/l	59
11) Tert butyl alcohol	2.70	59	437	Below Cal	#	1
13) Acrolein	2.12	56	1361	Below Cal		84
16) Acetone	2.33	43	4702	3.606	ug/l #	90
17) Carbon Disulfide	1.90	76	106	Below Cal	#	1
18) Methyl Acetate	2.46	43	4775	2.198	ug/l #	72
20) Methylene Chloride	2.27	84	6093	Below Cal	#	90
25) 2-Butanone	4.53	43	3333	1.899	ug/l #	56
29) Tetrahydrofuran	4.24	42	665	1.035	ug/l #	79
49) 1,4-Dioxane	6.87	88	72	3.217	ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	4386	1.595	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.76	63	1176	3.611	ug/l	100
59) 2-Hexanone	9.62	43	5059	2.583	ug/l	90
78) n-propylbenzene	11.68	91	1360	Below Cal		98
85) sec-Butylbenzene	12.37	105	985	Below Cal	#	58
86) p-Isopropyltoluene	12.53	119	1091	Below Cal		88
89) n-Butylbenzene	12.91	91	1426	Below Cal	#	62

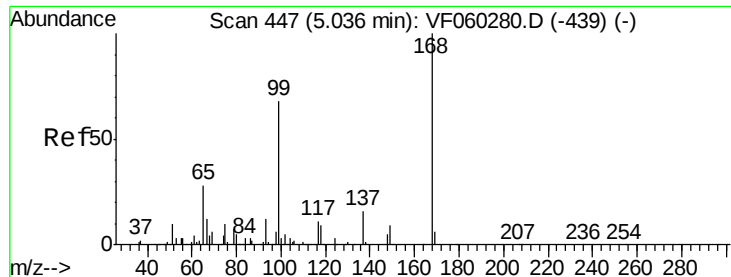
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.00 min

Lab File: VF060364.D

Acq: 26 Sep 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

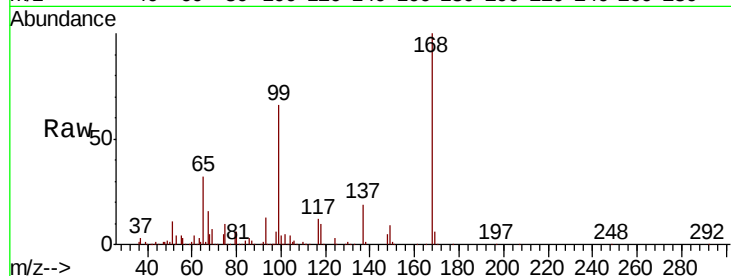
PARCEL-193-092418-1

Tot Ion:168 Resp: 343846

Ion Ratio Lower Upper

168 100

99 66.5 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

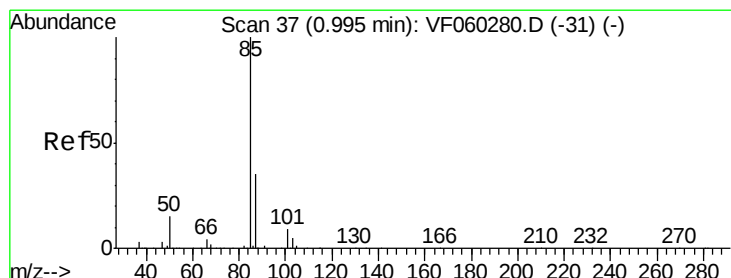
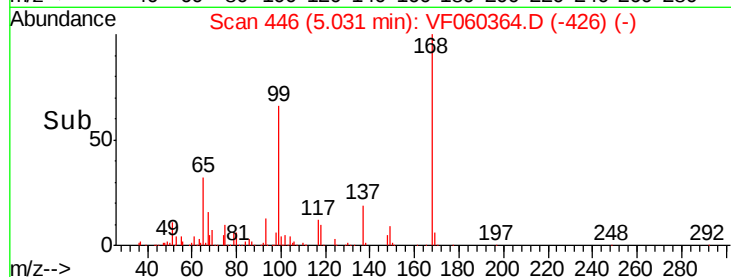
5.03

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 37

Delta R.T. 0.01 min

Lab File: VF060364.D

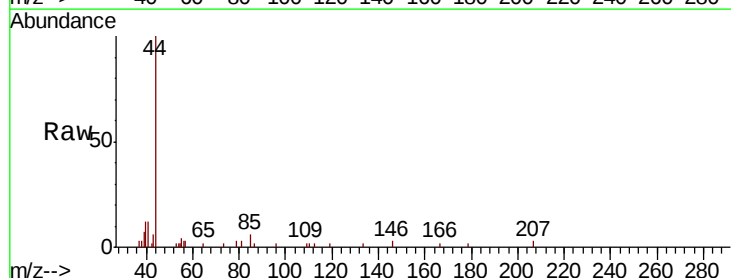
Acq: 26 Sep 2018 20:58

Tgt Ion: 85 Resp: 801

Ion Ratio Lower Upper

85 100

87 28.8 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

400

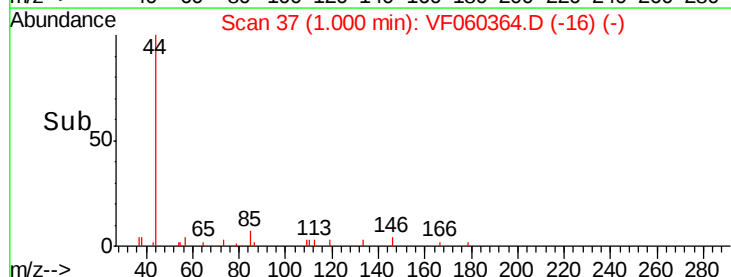
300

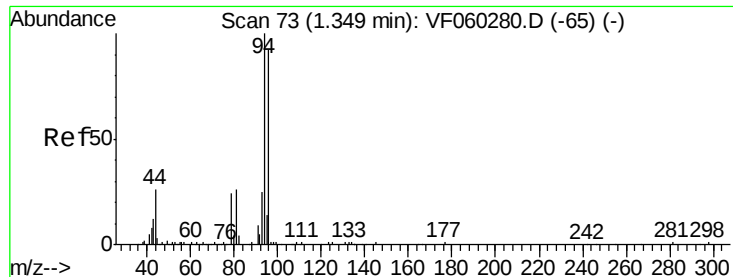
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.36 min Scan# 74

Delta R.T. 0.02 min

Lab File: VF060364.D

Acq: 26 Sep 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

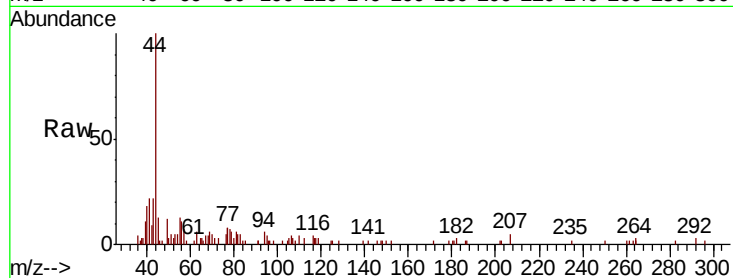
PARCEL-193-092418-1

Tot Ion: 94 Resp: 299

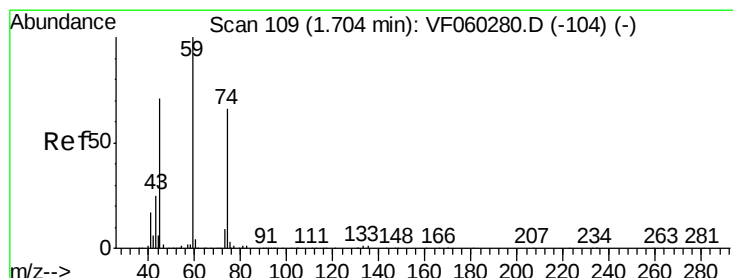
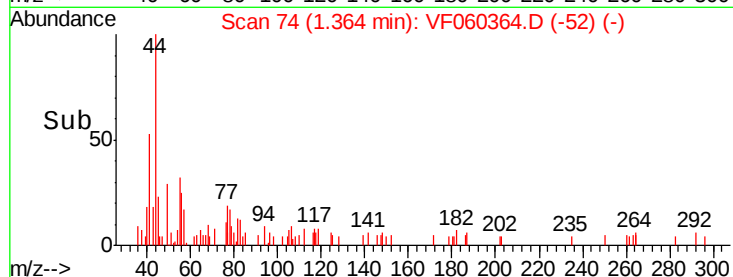
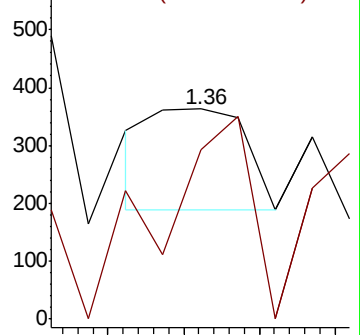
Ion Ratio Lower Upper

94 100

96 80.4 73.9 110.9



Abundance Ion 94.00 (93.70 to 94.70): VF0



#8

Diethyl Ether

Concen: 1.766 ug/l

RT: 1.70 min Scan# 108

Delta R.T. -0.00 min

Lab File: VF060364.D

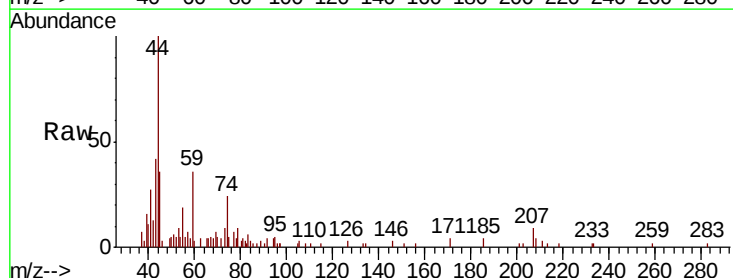
Acq: 26 Sep 2018 20:58

Tgt Ion: 74 Resp: 2614

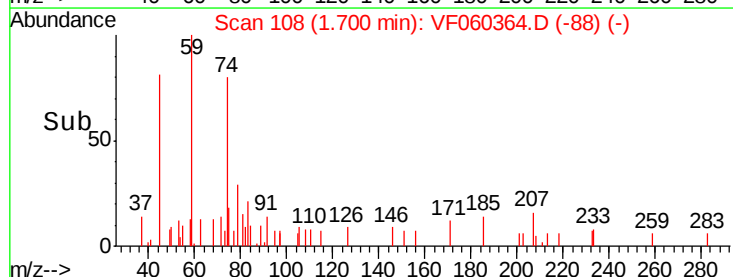
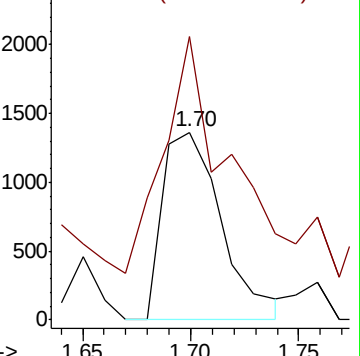
Ion Ratio Lower Upper

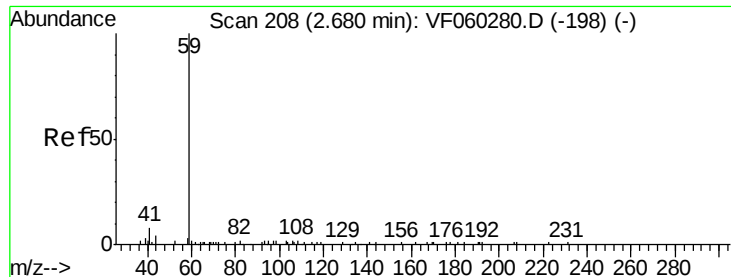
74 100

45 150.6 53.9 161.7



Abundance Ion 74.00 (73.70 to 74.70): VF0



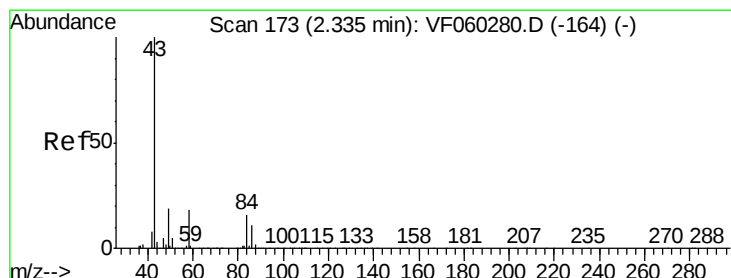
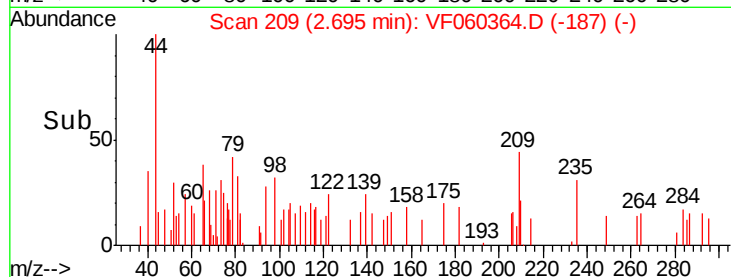
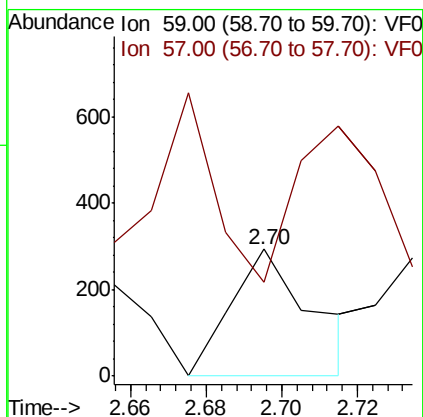
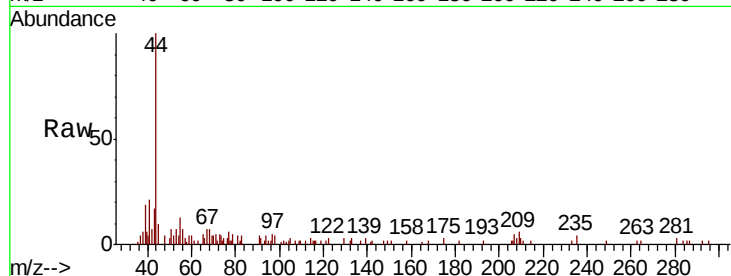


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.70 min Scan# 209
 Delta R.T. 0.02 min
 Lab File: VF060364.D
 Acq: 26 Sep 2018 20:58

Instrument :
 MSVOA_F
 ClientSampleId :
 PARCEL-193-092418-1

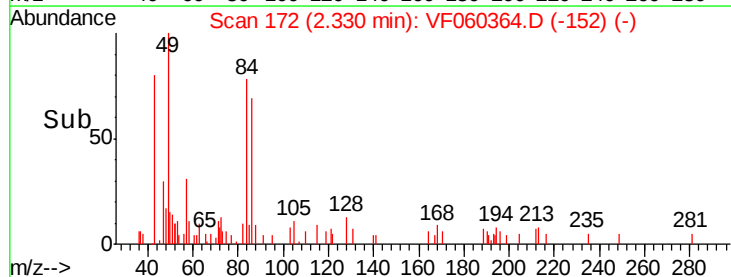
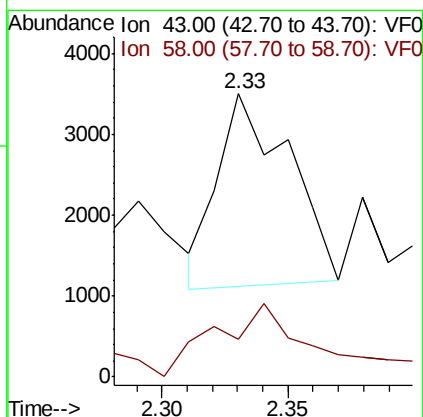
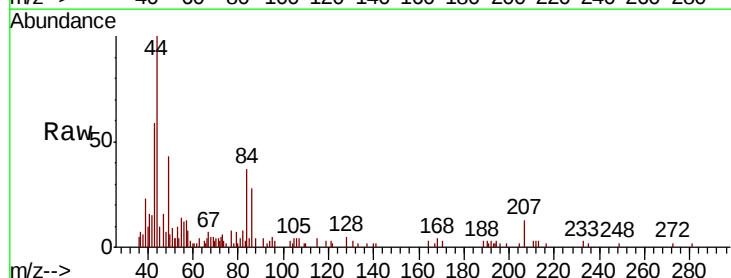
Tot Ion: 59 Resp: 437
 Ion Ratio Lower Upper
 59 100
 57 73.8 12.4 18.6#

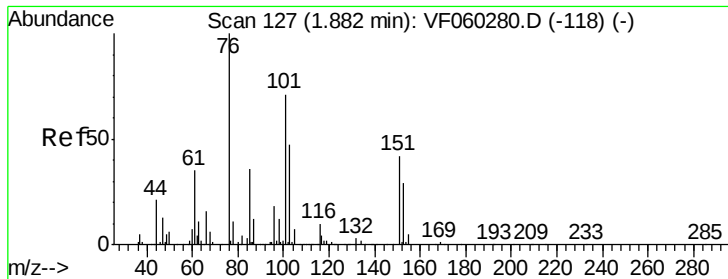


#16

Acetone
 Concen: 3.606 ug/l
 RT: 2.33 min Scan# 172
 Delta R.T. -0.00 min
 Lab File: VF060364.D
 Acq: 26 Sep 2018 20:58

Tgt Ion: 43 Resp: 4702
 Ion Ratio Lower Upper
 43 100
 58 13.4 14.5 21.7#

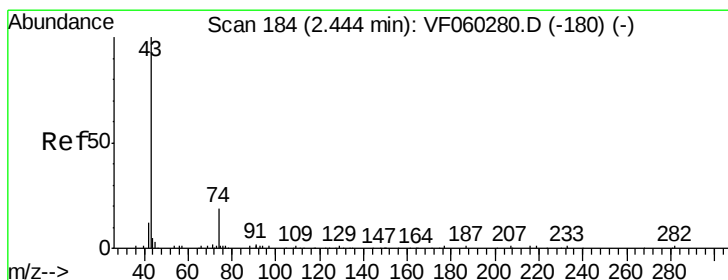
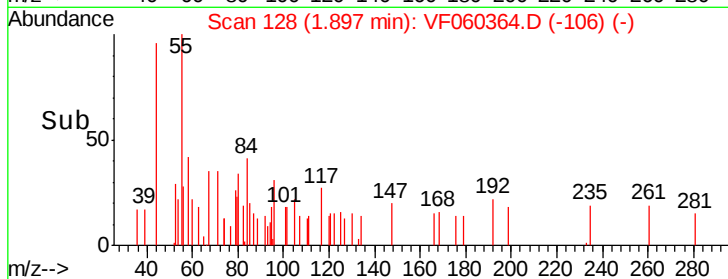
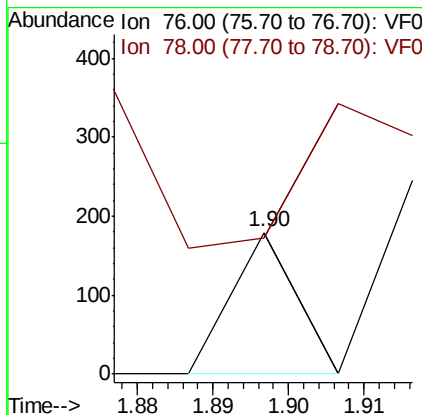
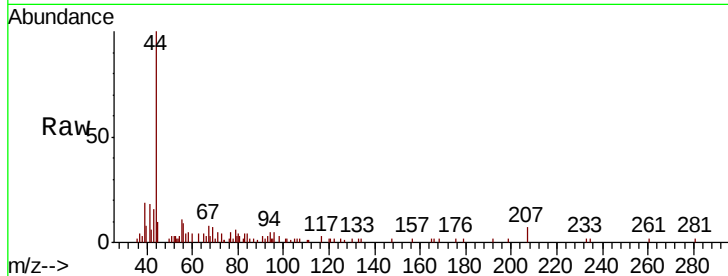




#17
Carbon Disulfide
Concen: Below Cal
RT: 1.90 min Scan# 128
Delta R.T. 0.02 min
Lab File: VF060364.D
Acq: 26 Sep 2018 20:58

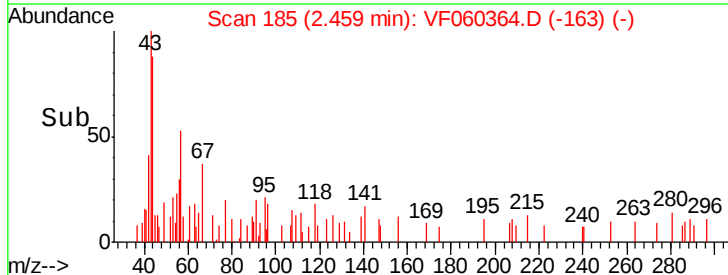
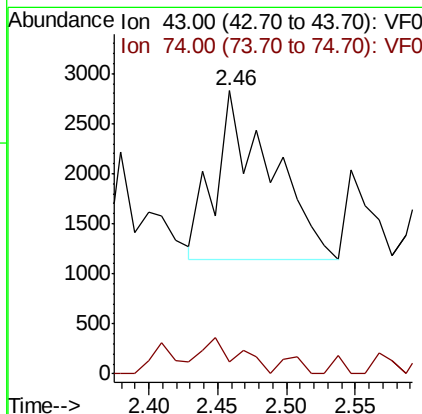
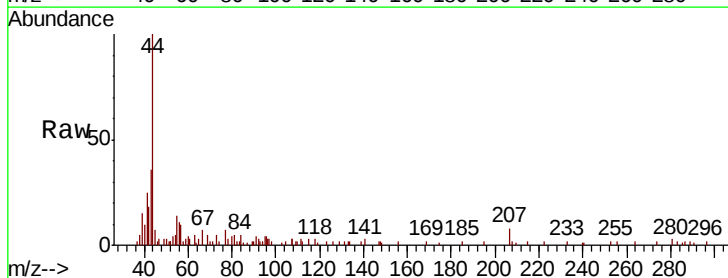
Instrument :
MSVOA_F
ClientSampleId :
PARCEL-193-092418-1

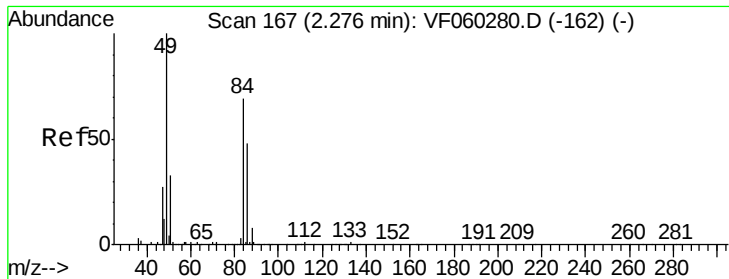
Tot Ion: 76 Resp: 106
Ion Ratio Lower Upper
76 100
78 96.6 9.4 14.0#



#18
Methyl Acetate
Concen: 2.198 ug/l
RT: 2.46 min Scan# 185
Delta R.T. 0.01 min
Lab File: VF060364.D
Acq: 26 Sep 2018 20:58

Tgt Ion: 43 Resp: 4775
Ion Ratio Lower Upper
43 100
74 4.2 12.7 19.1#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 166

Delta R.T. -0.00 min

Lab File: VF060364.D

Acq: 26 Sep 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

PARCEL-193-092418-1

Tot Ion: 84 Resp: 6093

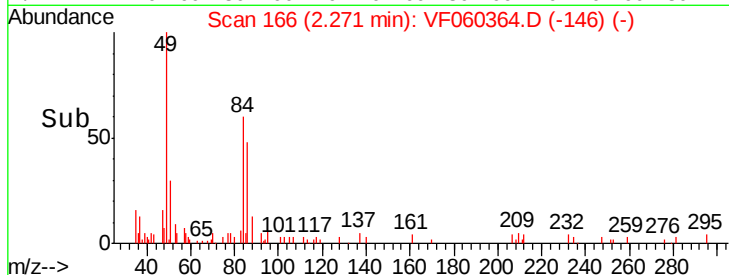
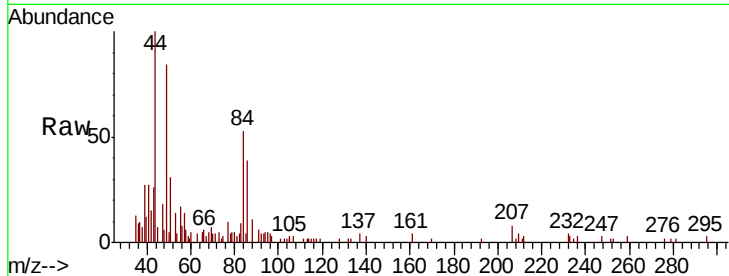
Ion Ratio Lower Upper

84 100

49 159.9 118.3 177.5

51 58.5 38.7 58.1#

86 74.6 55.8 83.6

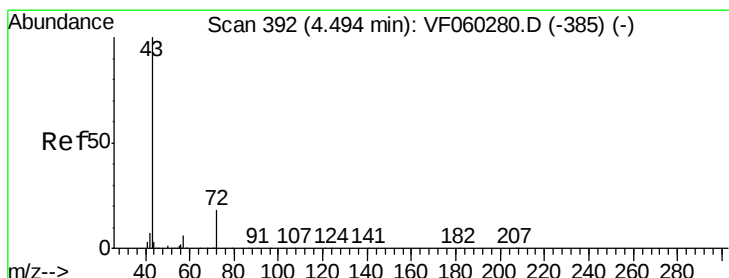
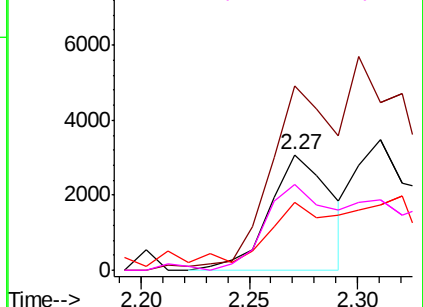


Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 1.899 ug/l

RT: 4.53 min Scan# 395

Delta R.T. 0.03 min

Lab File: VF060364.D

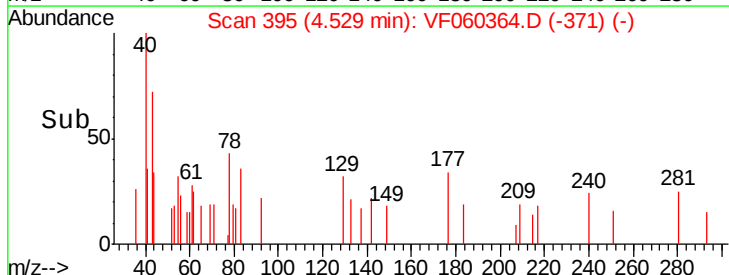
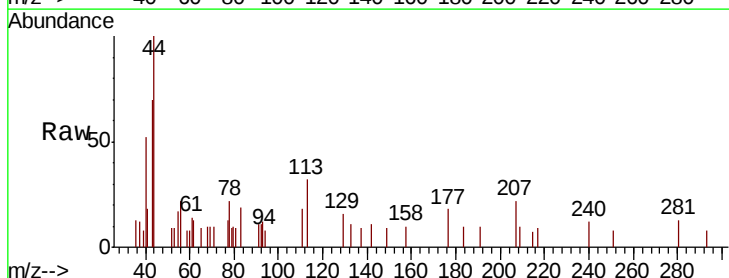
Acq: 26 Sep 2018 20:58

Tgt Ion: 43 Resp: 3333

Ion Ratio Lower Upper

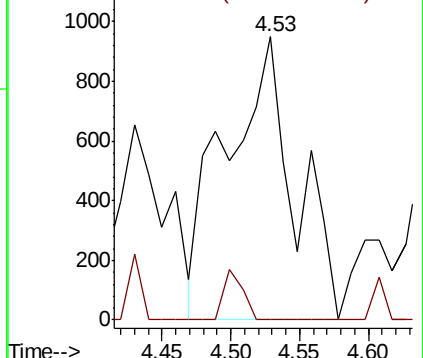
43 100

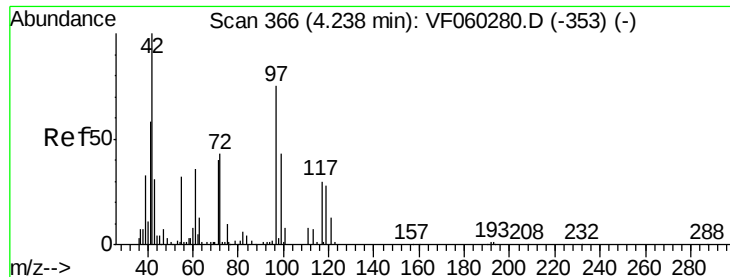
72 0.0 16.2 24.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.035 ug/l

RT: 4.24 min Scan# 366

Delta R.T. 0.01 min

Lab File: VF060364.D

Acq: 26 Sep 2018 20:58

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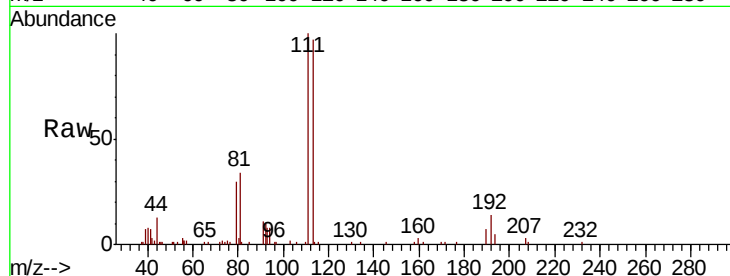
Tot Ion: 42 Resp: 665

Ion Ratio Lower Upper

42 100

72 63.6 32.6 49.0#

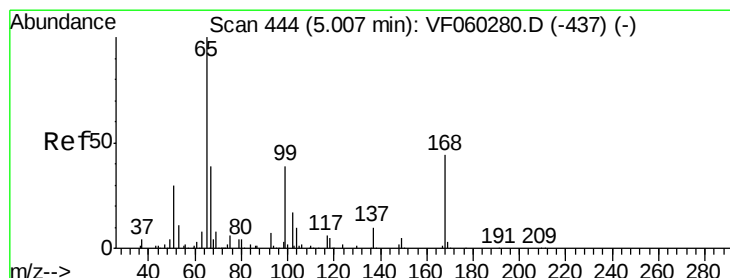
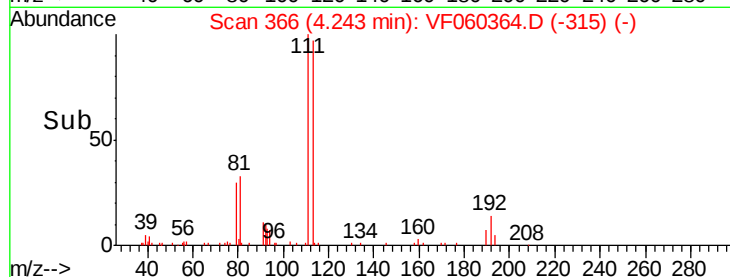
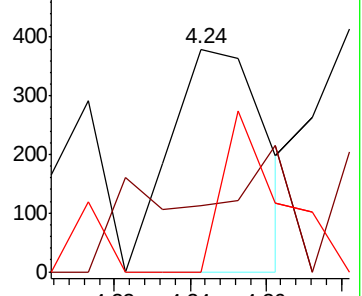
71 43.9 32.7 49.1



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: 59.871 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.00 min

Lab File: VF060364.D

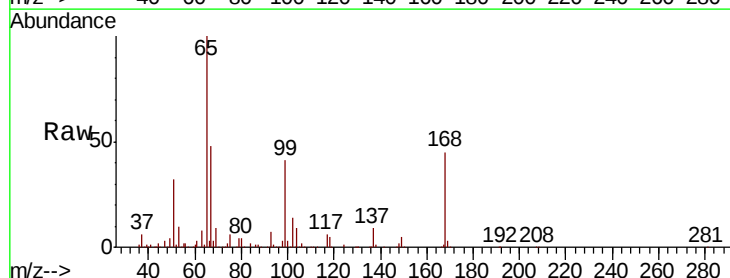
Acq: 26 Sep 2018 20:58

Tgt Ion: 65 Resp: 277204

Ion Ratio Lower Upper

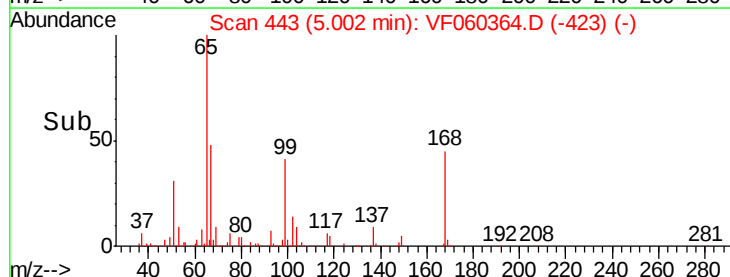
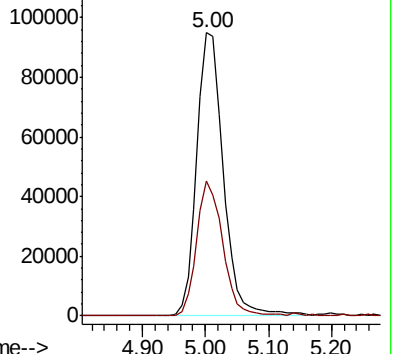
65 100

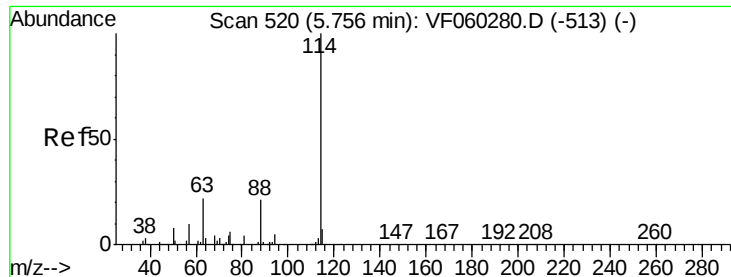
67 47.9 0.0 94.4



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: VF060364.D

Acq: 26 Sep 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

PARCEL-193-092418-1

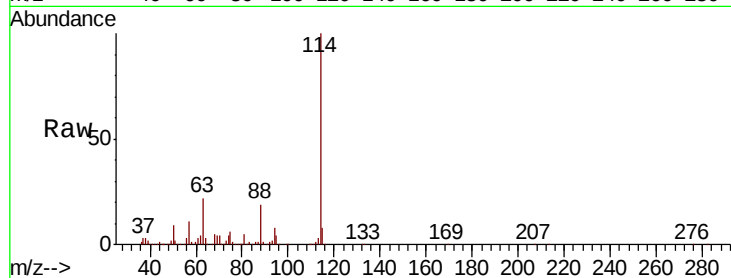
Tot Ion:114 Resp: 561659

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.8

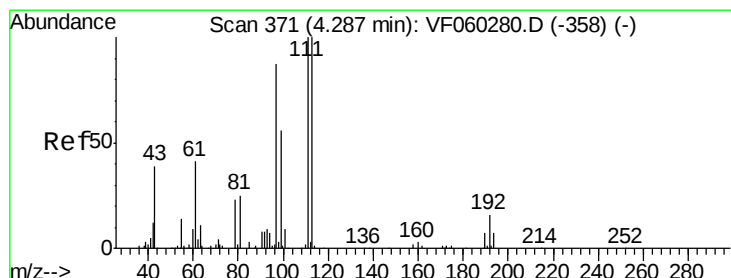
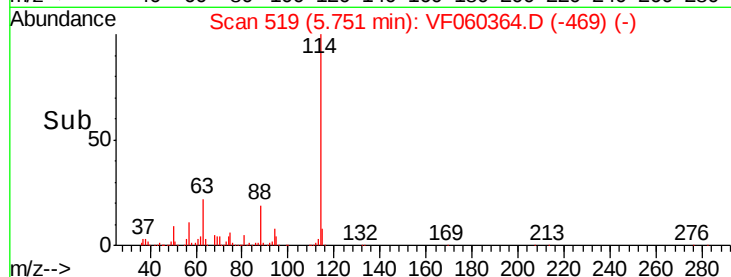
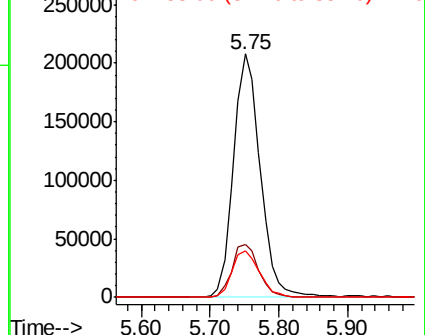
88 19.1 0.0 41.2



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: 53.605 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VF060364.D

Acq: 26 Sep 2018 20:58

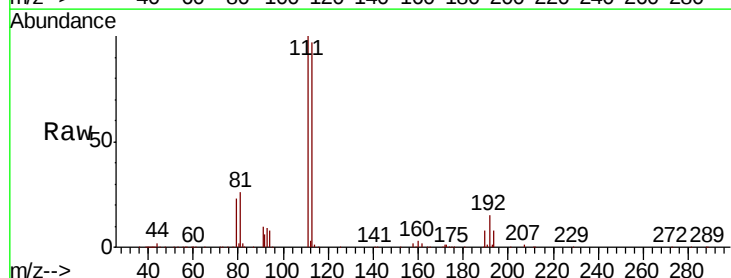
Tgt Ion:113 Resp: 268387

Ion Ratio Lower Upper

113 100

111 103.6 79.6 119.4

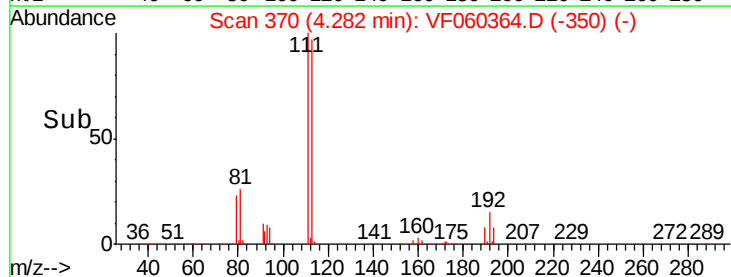
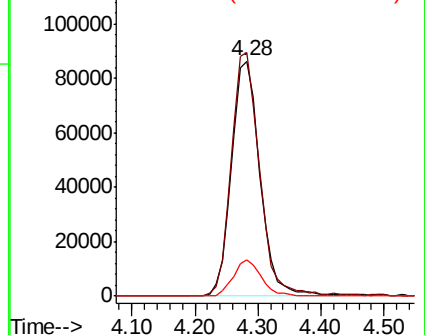
192 15.2 13.0 19.6

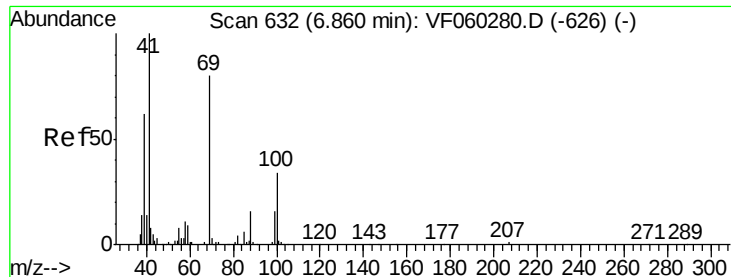


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

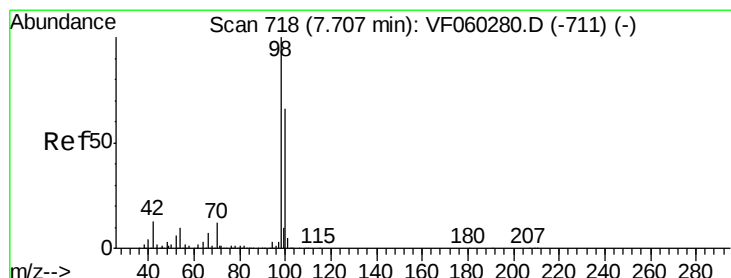
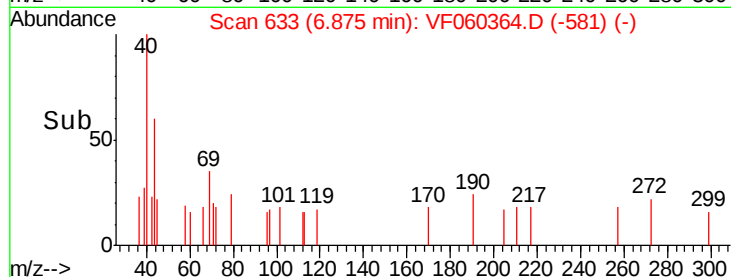
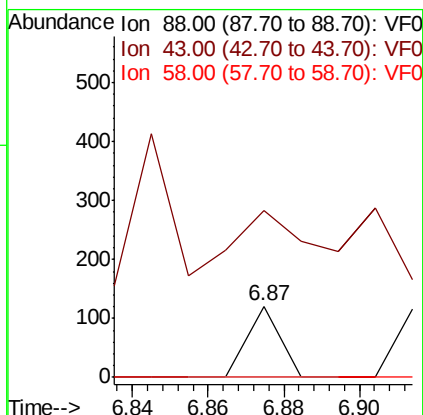
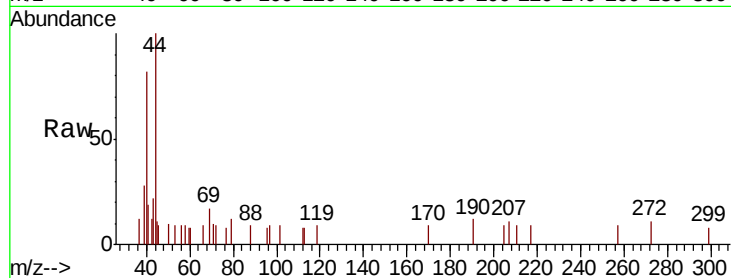




#49
1,4-Dioxane
Concen: 3.217 ug/l
RT: 6.87 min Scan# 633
Delta R.T. 0.01 min
Lab File: VF060364.D
Acq: 26 Sep 2018 20:58

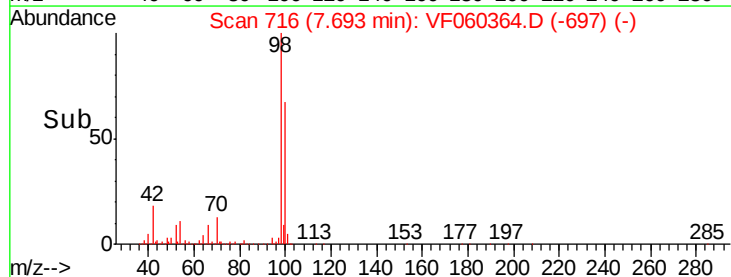
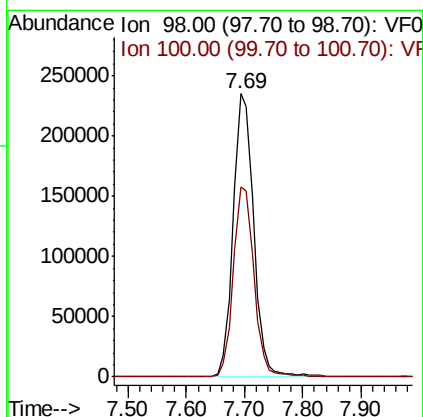
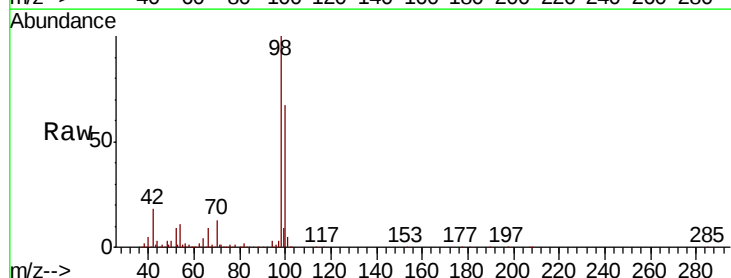
Instrument :
MSVOA_F
ClientSampleId :
PARCEL-193-092418-1

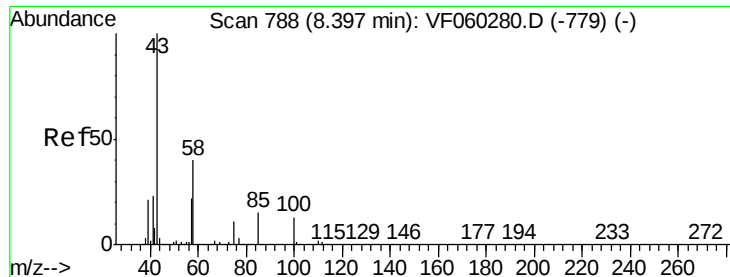
Tot Ion: 88 Resp: 72
Ion Ratio Lower Upper
88 100
43 234.7 40.2 60.4#
58 0.0 56.7 85.1#



#50
Toluene-d8
Concen: 44.246 ug/l
RT: 7.69 min Scan# 716
Delta R.T. -0.01 min
Lab File: VF060364.D
Acq: 26 Sep 2018 20:58

Tgt Ion: 98 Resp: 576912
Ion Ratio Lower Upper
98 100
100 67.2 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 1.595 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.01 min

Lab File: VF060364.D

Acq: 26 Sep 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

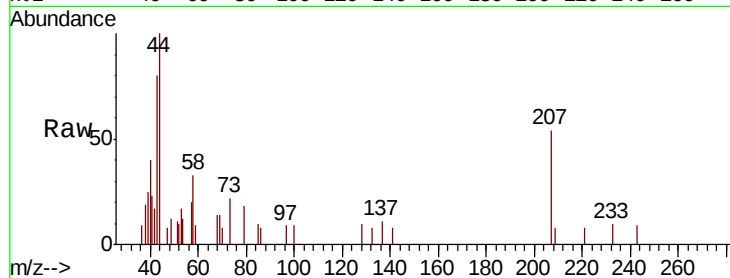
PARCEL-193-092418-1

Tot Ion: 43 Resp: 4386

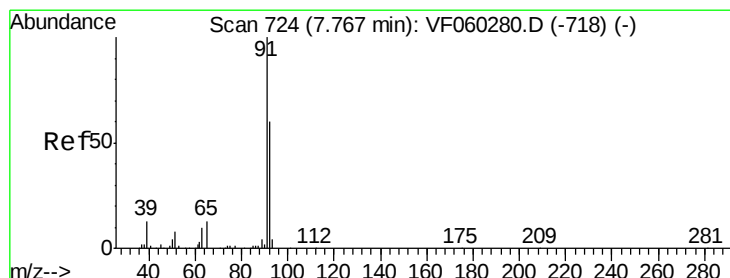
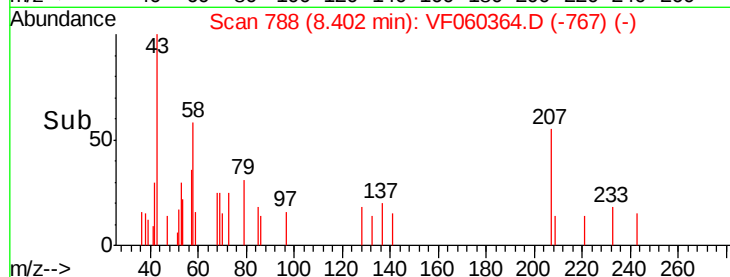
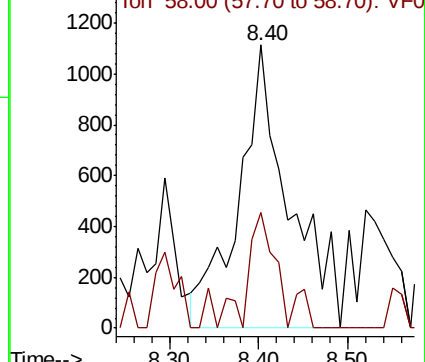
Ion Ratio Lower Upper

43 100

58 41.0 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 3.611 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.00 min

Lab File: VF060364.D

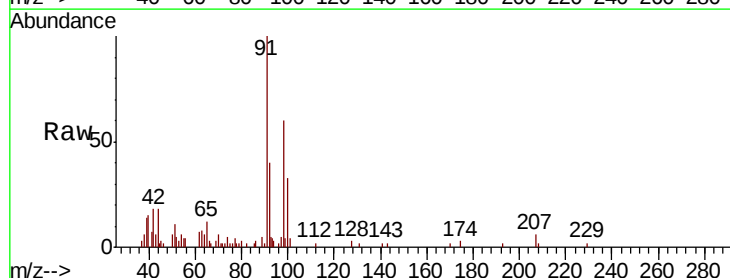
Acq: 26 Sep 2018 20:58

Tgt Ion: 63 Resp: 1176

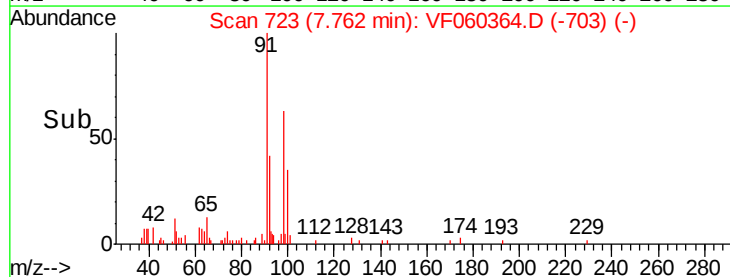
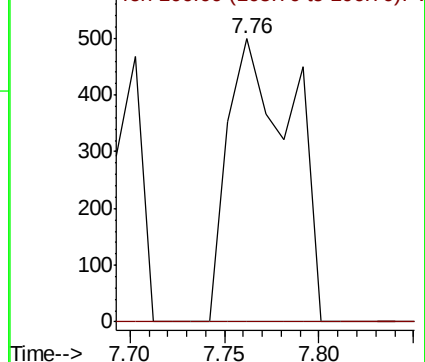
Ion Ratio Lower Upper

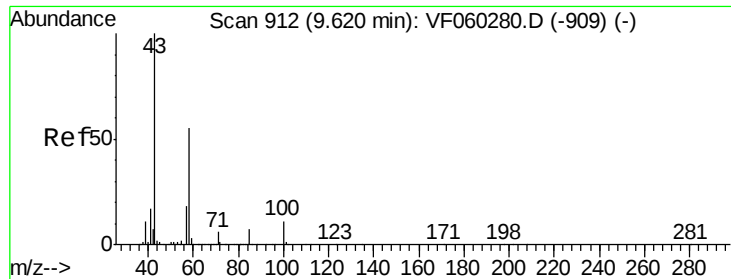
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

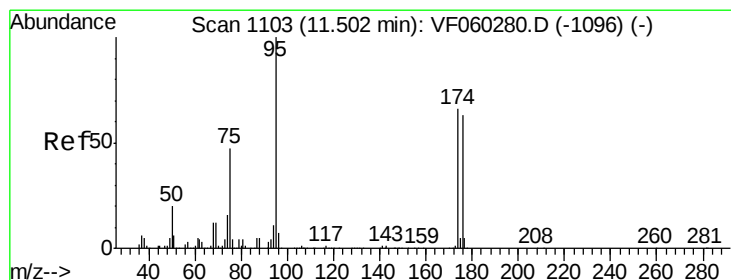
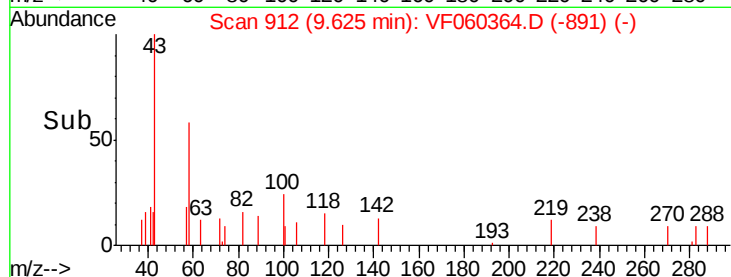
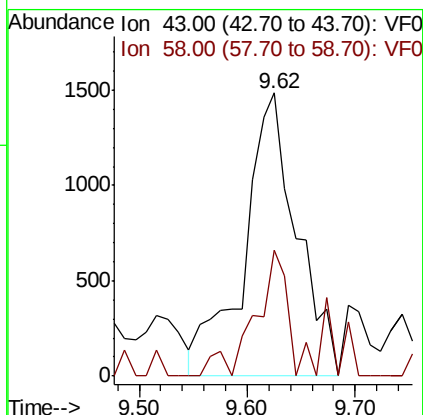
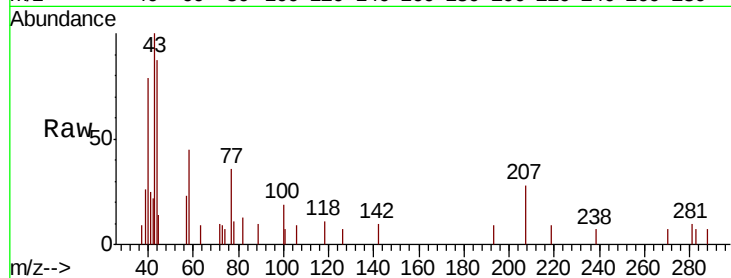




#59
2-Hexanone
Concen: 2.583 ug/l
RT: 9.62 min Scan# 912
Delta R.T. 0.01 min
Lab File: VF060364.D
Acq: 26 Sep 2018 20:58

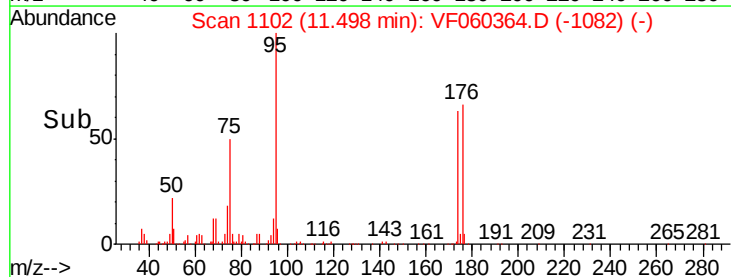
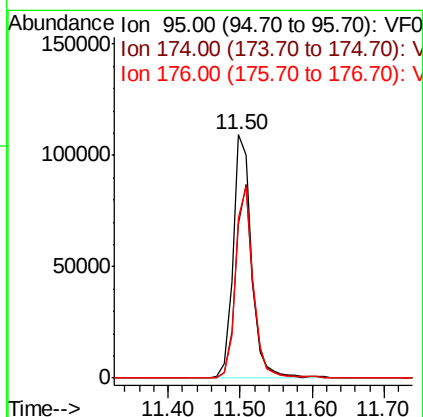
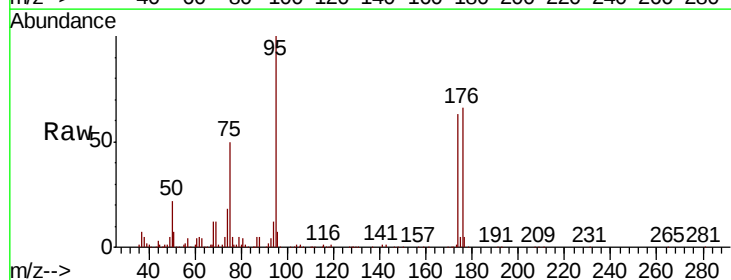
Instrument :
MSVOA_F
ClientSampleId :
PARCEL-193-092418-1

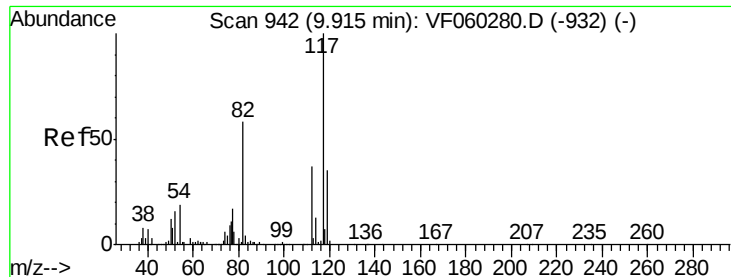
Tot Ion: 43 Resp: 5059
Ion Ratio Lower Upper
43 100
58 44.6 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 34.785 ug/l
RT: 11.50 min Scan# 1102
Delta R.T. -0.00 min
Lab File: VF060364.D
Acq: 26 Sep 2018 20:58

Tgt Ion: 95 Resp: 196054
Ion Ratio Lower Upper
95 100
174 63.1 0.0 131.2
176 66.0 0.0 126.6

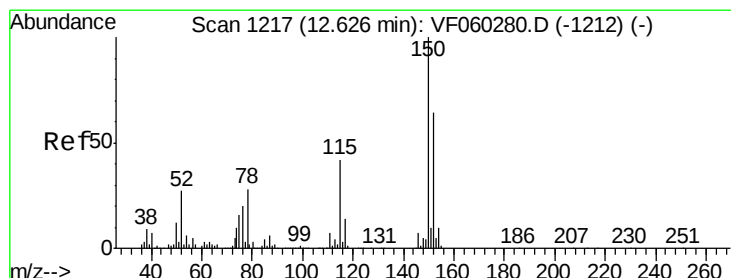
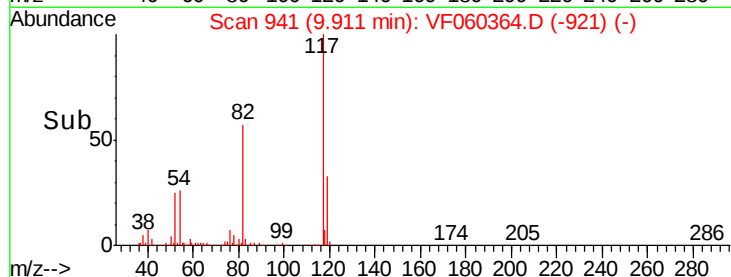
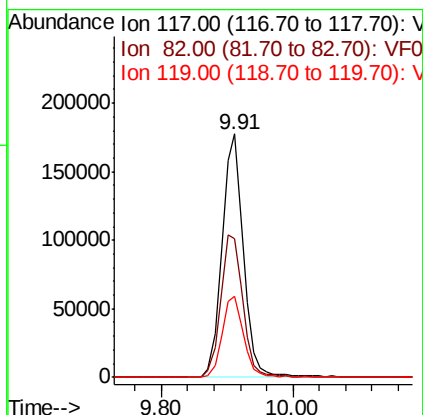
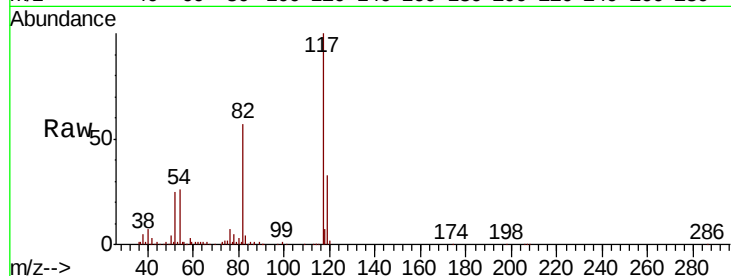




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.00 min
Lab File: VF060364.D
Acq: 26 Sep 2018 20:58

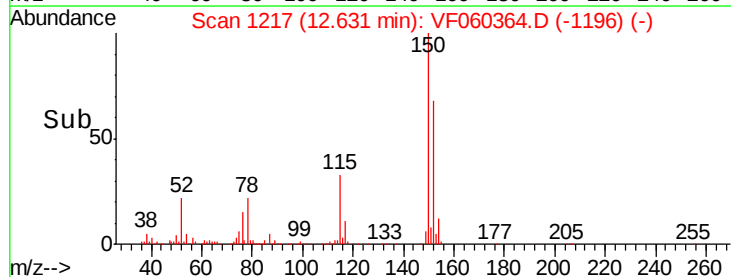
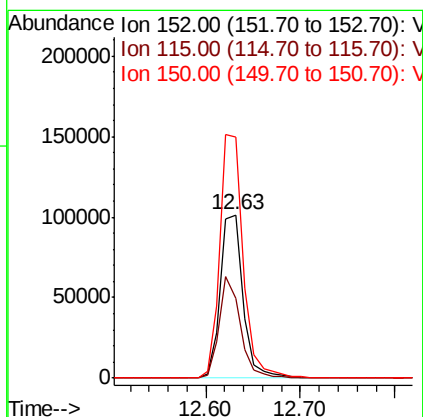
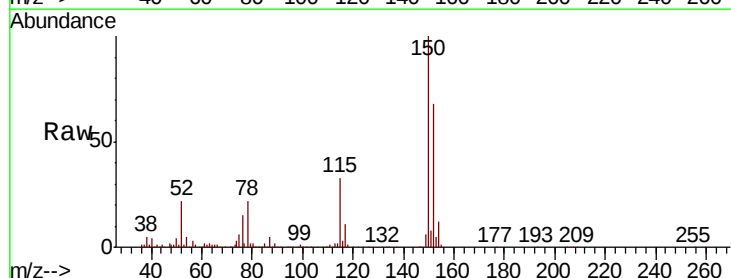
Instrument :
MSVOA_F
ClientSampleId :
PARCEL-193-092418-1

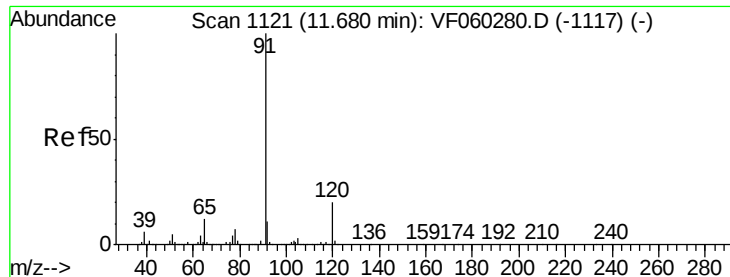
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.8	46.2	69.2
119	33.1	27.8	41.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. 0.01 min
Lab File: VF060364.D
Acq: 26 Sep 2018 20:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	49.0	32.6	97.8
150	147.9	0.0	314.2





#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF060364.D

Acq: 26 Sep 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

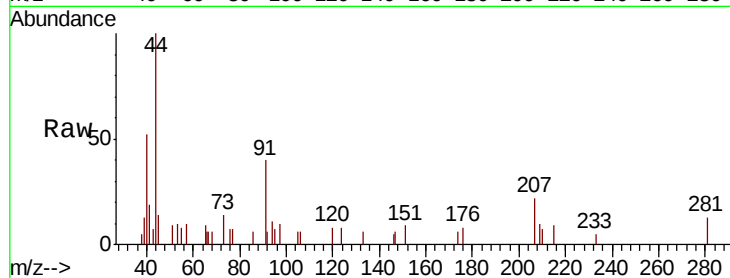
PARCEL-193-092418-1

Tot Ion: 91 Resp: 1360

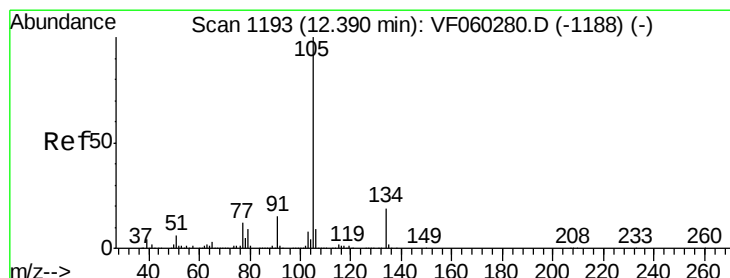
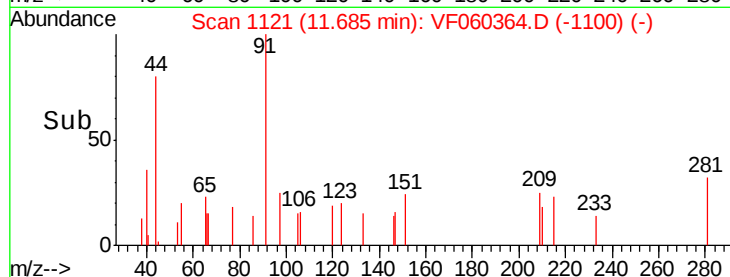
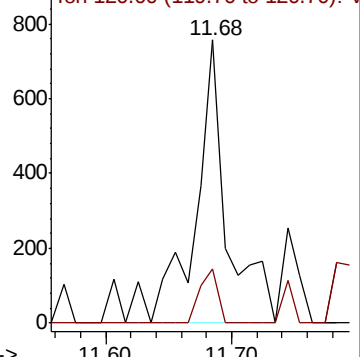
Ion Ratio Lower Upper

91 100

120 19.2 10.0 29.8



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



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.37 min Scan# 1191

Delta R.T. -0.01 min

Lab File: VF060364.D

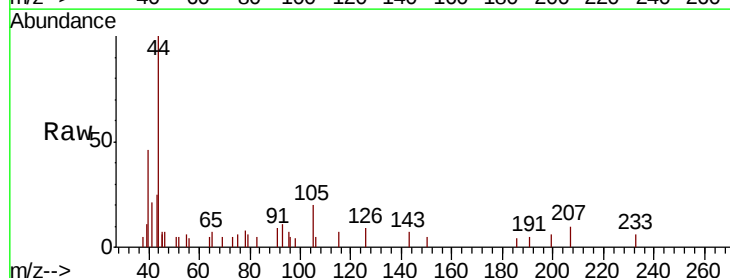
Acq: 26 Sep 2018 20:58

Tgt Ion: 105 Resp: 985

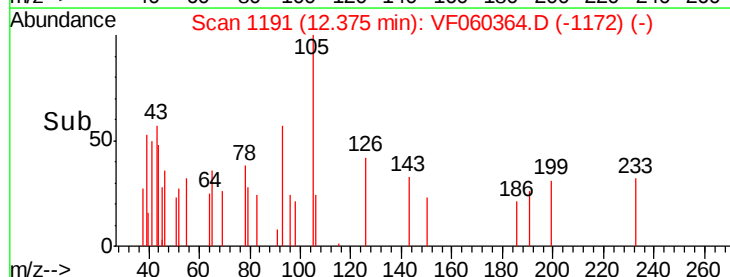
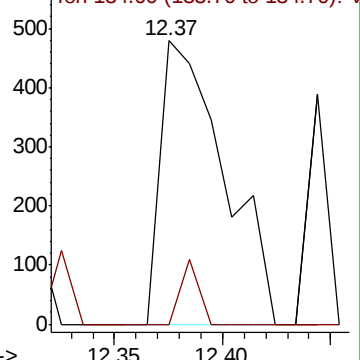
Ion Ratio Lower Upper

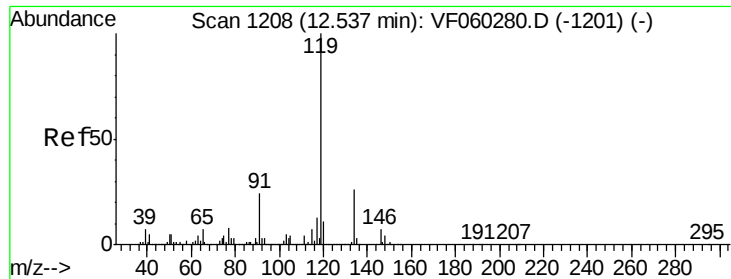
105 100

134 0.0 9.6 28.6#



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





#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.53 min Scan# 1207
 Delta R.T. -0.00 min
 Lab File: VF060364.D
 Acq: 26 Sep 2018 20:58

Instrument :
 MSVOA_F
 ClientSampleId :
 PARCEL-193-092418-1

Tot Ion	Ratio	Lower	Upper
119	100		
134	21.0	12.9	38.7
91	30.9	11.9	35.7

