

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF092518\
 Data File : VF060335.D
 Acq On : 25 Sep 2018 20:03
 Operator : VA/AP
 Sample : J4779-07
 Misc : 6.12/5mL/MSVOA_F/SOIL
 ALS Vial : 41 Sample Multiplier: 1

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

Quant Time: Sep 26 01:47:16 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	5.02	168	272444	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.75	114	481246	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	439278	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	222170	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	245520	66.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	133.86%	
35) Dibromofluoromethane	4.27	113	259143	60.41	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	120.82%	
50) Toluene-d8	7.69	98	552147	49.42	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	98.84%	
62) 4-Bromofluorobenzene	11.50	95	241731	50.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.12%	

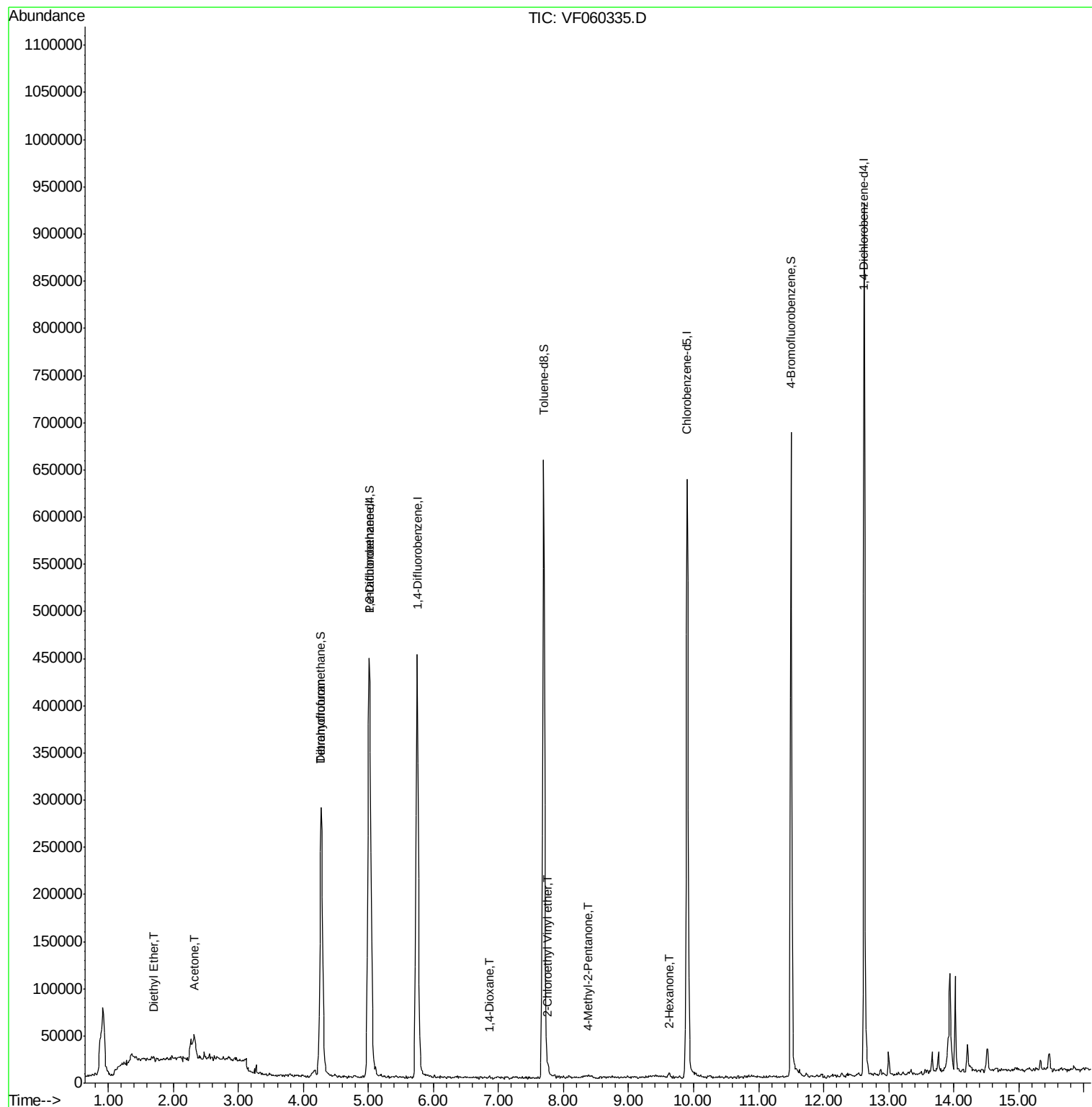
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	182	Below Cal	#	40
5) Bromomethane	1.36	94	1192	Below Cal		86
8) Diethyl Ether	1.70	74	1712	1.460	ug/l	81
11) Tert butyl alcohol	2.66	59	473	Below Cal	#	1
13) Acrolein	2.07	56	198	Below Cal	#	1
16) Acetone	2.33	43	21718	21.021	ug/l	93
17) Carbon Disulfide	1.89	76	121	Below Cal	#	1
20) Methylene Chloride	2.27	84	10826	Below Cal		87
29) Tetrahydrofuran	4.26	42	1819	3.572	ug/l #	61
49) 1,4-Dioxane	6.84	88	65	3.390	ug/l #	1
51) 4-Methyl-2-Pentanone	8.39	43	3368	1.429	ug/l #	77
58) 2-Chloroethyl Vinyl ether	7.76	63	784	2.810	ug/l	100
59) 2-Hexanone	9.61	43	5471	3.260	ug/l	69
78) n-propylbenzene	11.67	91	1164	Below Cal	#	57
85) sec-Butylbenzene	12.37	105	973	Below Cal		99
86) p-Isopropyltoluene	12.53	119	991	Below Cal	#	71
89) n-Butylbenzene	12.92	91	1945	Below Cal	#	55

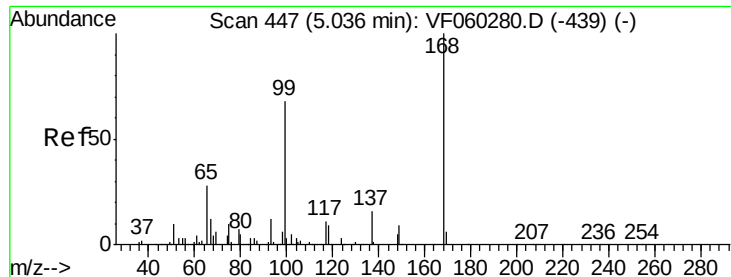
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. -0.01 min

Lab File: VF060335.D

Acq: 25 Sep 2018 20:03

Instrument :

MSVOA_F

ClientSampleId :

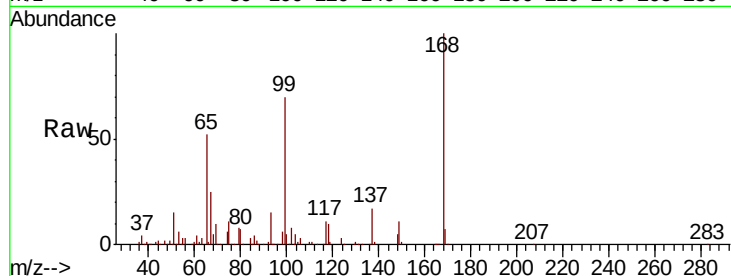
SU-02-092418-B

Tgt Ion:168 Resp: 272444

Ion Ratio Lower Upper

168 100

99 70.1 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

100000

80000

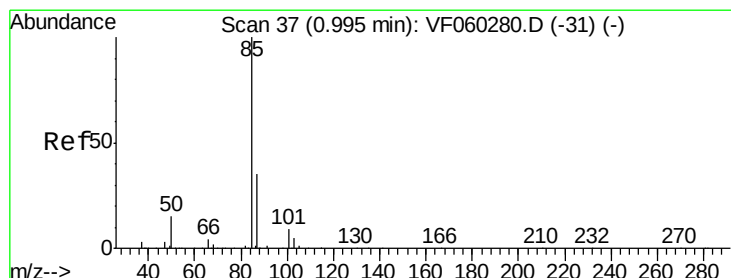
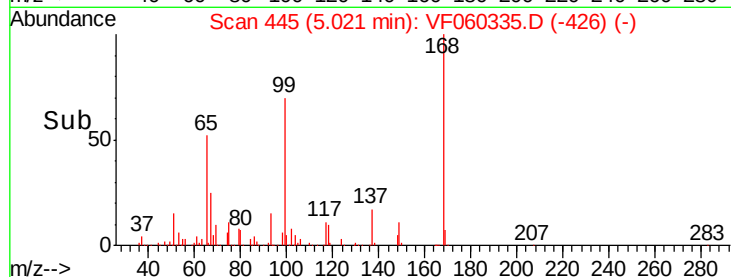
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.01 min Scan# 38

Delta R.T. 0.02 min

Lab File: VF060335.D

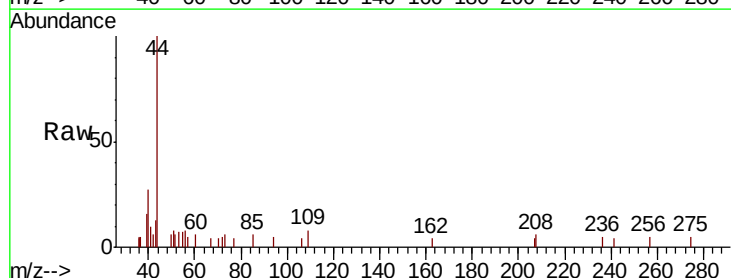
Acq: 25 Sep 2018 20:03

Tgt Ion: 85 Resp: 182

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

1.01

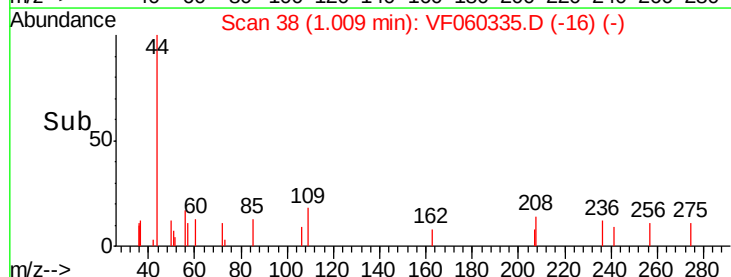
150

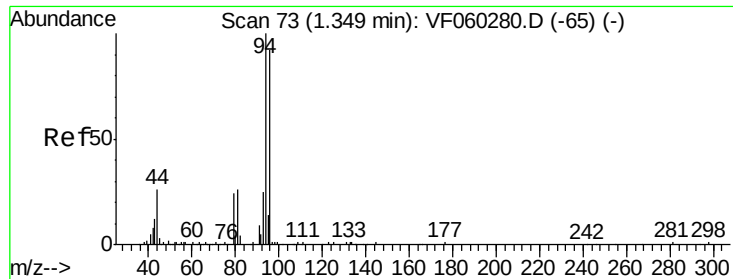
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.36 min Scan# 74

Delta R.T. 0.02 min

Lab File: VF060335.D

Acq: 25 Sep 2018 20:03

Instrument :

MSVOA_F

ClientSampleId :

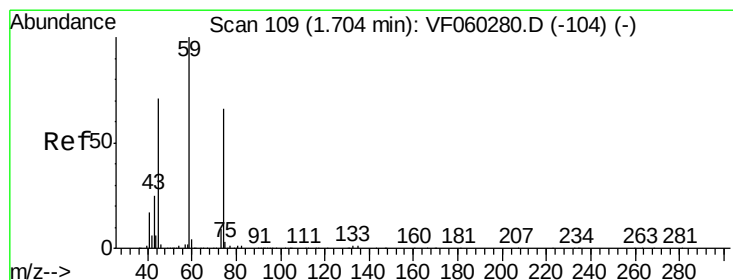
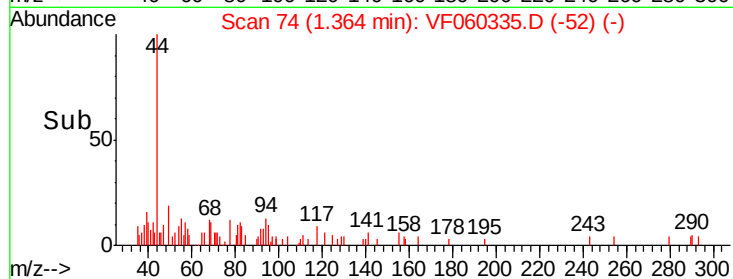
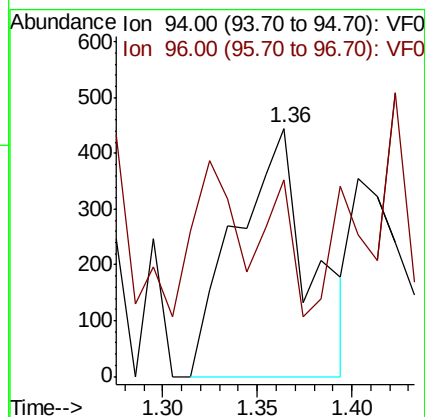
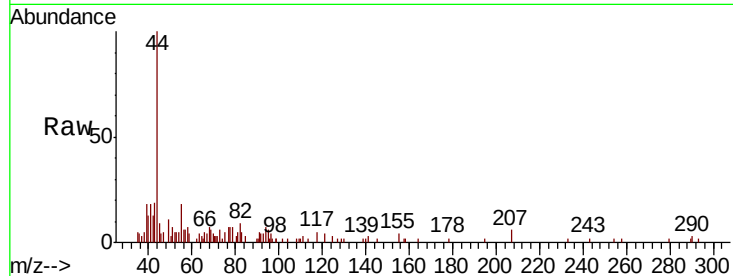
SU-02-092418-B

Tgt Ion: 94 Resp: 1192

Ion Ratio Lower Upper

94 100

96 79.1 73.9 110.9



#8

Diethyl Ether

Concen: 1.460 ug/l

RT: 1.70 min Scan# 108

Delta R.T. -0.01 min

Lab File: VF060335.D

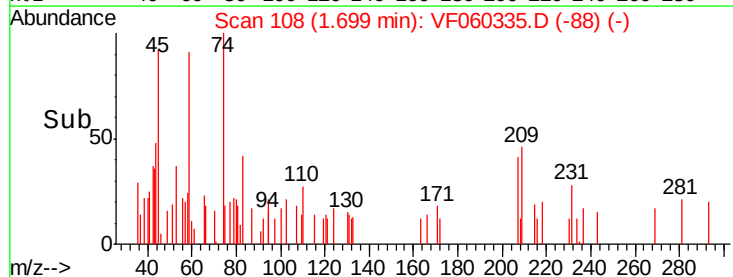
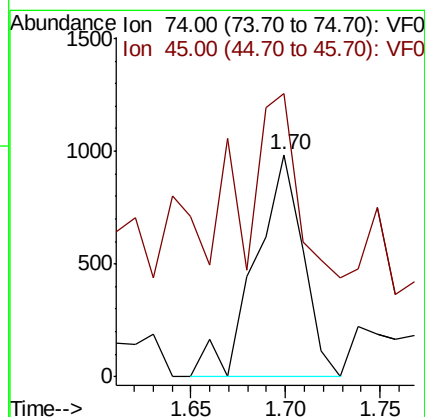
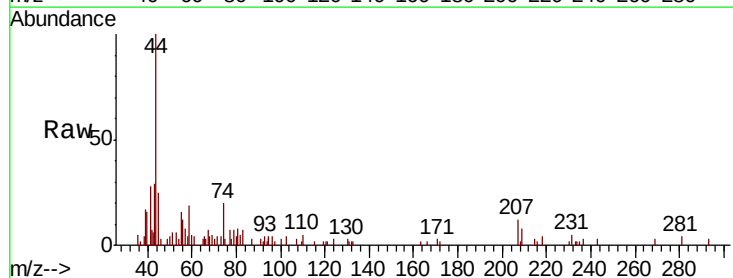
Acq: 25 Sep 2018 20:03

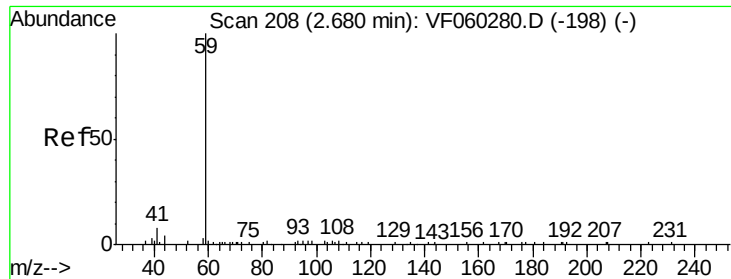
Tgt Ion: 74 Resp: 1712

Ion Ratio Lower Upper

74 100

45 127.4 53.9 161.7

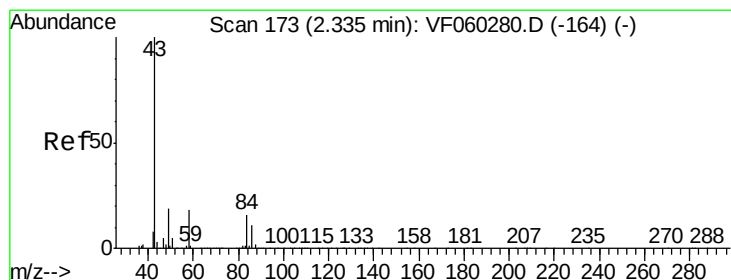
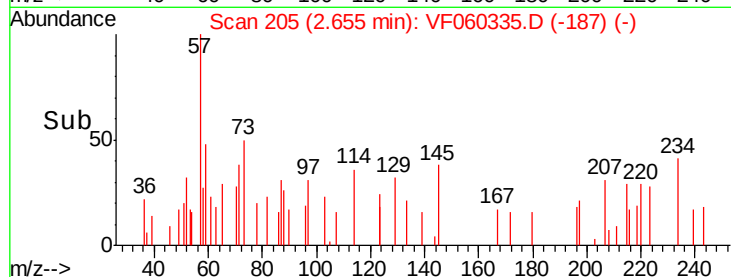
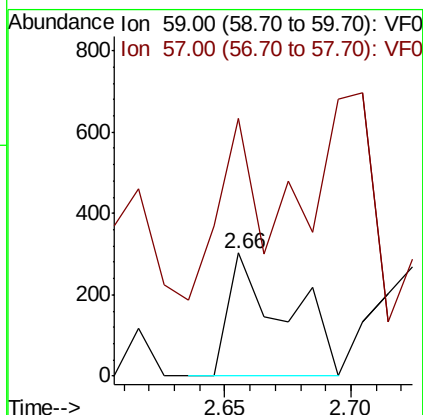
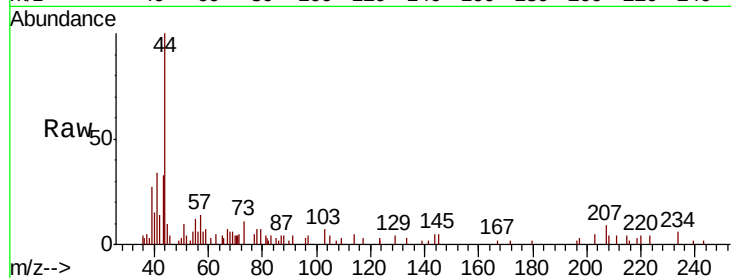




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.66 min Scan# 205
Delta R.T. -0.02 min
Lab File: VF060335.D
Acq: 25 Sep 2018 20:03

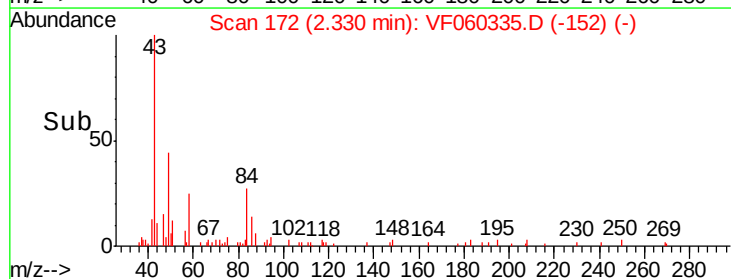
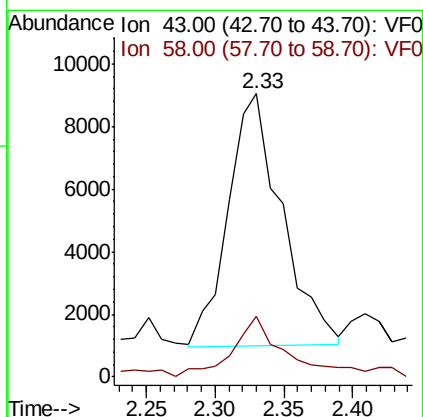
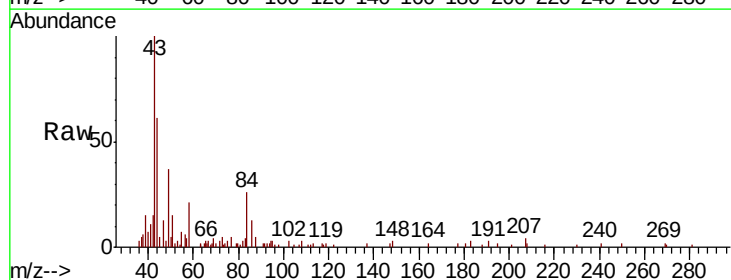
Instrument :
MSVOA_F
ClientSampleId :
SU-02-092418-B

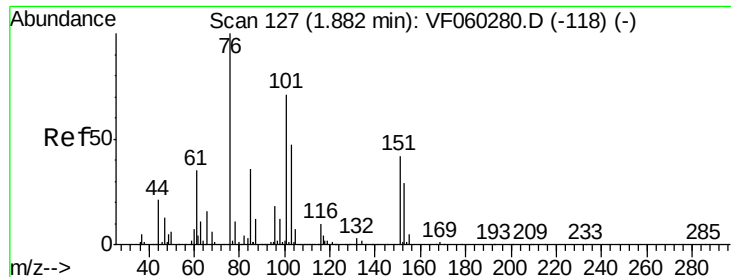
Tgt Ion: 59 Resp: 473
Ion Ratio Lower Upper
59 100
57 209.6 12.4 18.6#



#16
Acetone
Concen: 21.021 ug/l
RT: 2.33 min Scan# 172
Delta R.T. -0.01 min
Lab File: VF060335.D
Acq: 25 Sep 2018 20:03

Tgt Ion: 43 Resp: 21718
Ion Ratio Lower Upper
43 100
58 21.3 14.5 21.7





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.89 min Scan# 127

Delta R.T. 0.01 min

Lab File: VF060335.D

Acq: 25 Sep 2018 20:03

Instrument :

MSVOA_F

ClientSampleId :

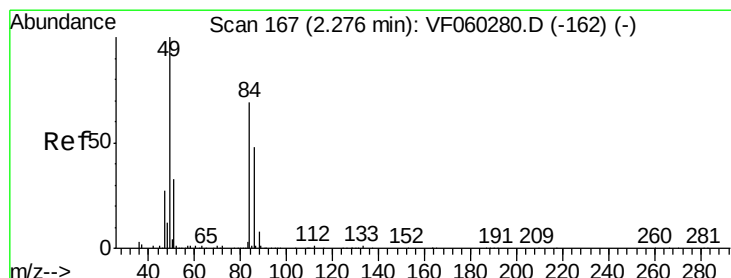
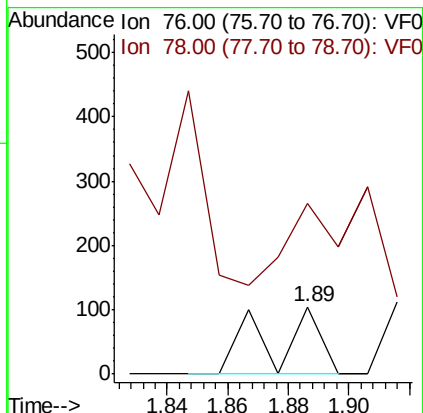
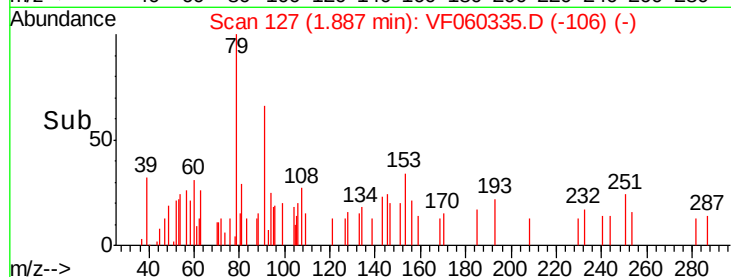
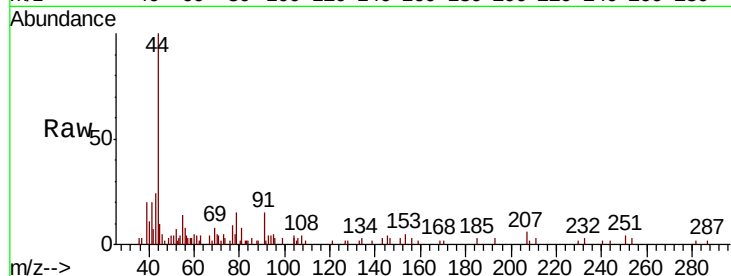
SU-02-092418-B

Tgt Ion: 76 Resp: 121

Ion Ratio Lower Upper

76 100

78 252.4 9.4 14.0#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 166

Delta R.T. -0.01 min

Lab File: VF060335.D

Acq: 25 Sep 2018 20:03

Tgt Ion: 84 Resp: 10826

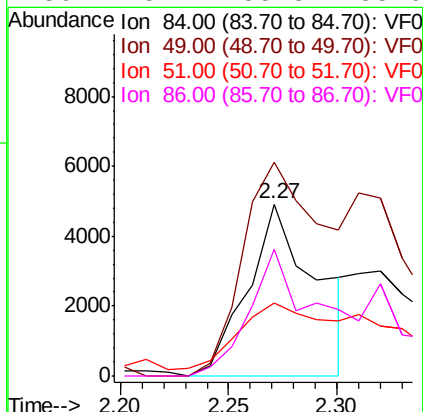
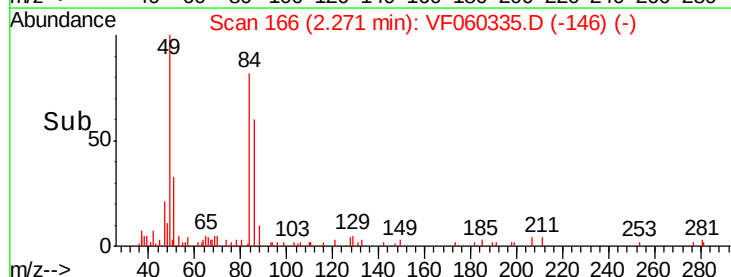
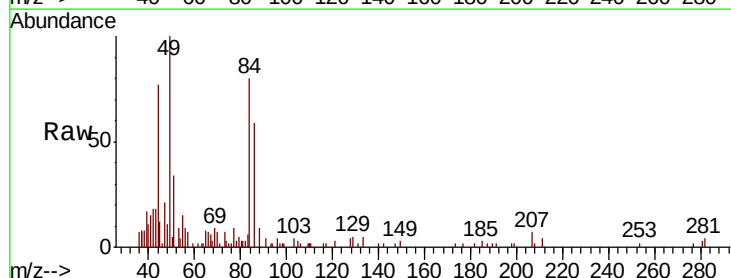
Ion Ratio Lower Upper

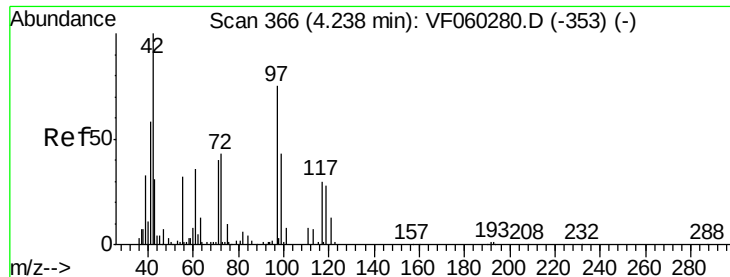
84 100

49 124.3 118.3 177.5

51 42.4 38.7 58.1

86 73.7 55.8 83.6





#29

Tetrahydrofuran

Concen: 3.572 ug/l

RT: 4.26 min Scan# 368

Delta R.T. 0.02 min

Lab File: VF060335.D

Acq: 25 Sep 2018 20:03

Instrument :

MSVOA_F

ClientSampleId :

SU-02-092418-B

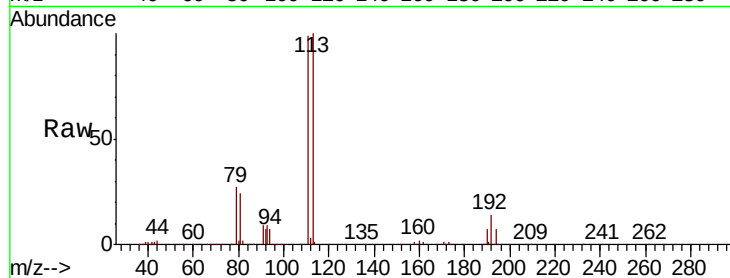
Tgt Ion: 42 Resp: 1819

Ion Ratio Lower Upper

42 100

72 12.5 32.6 49.0#

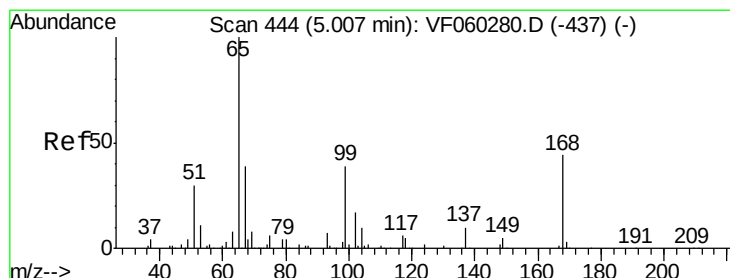
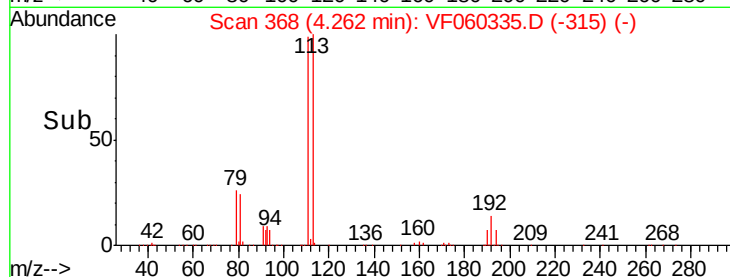
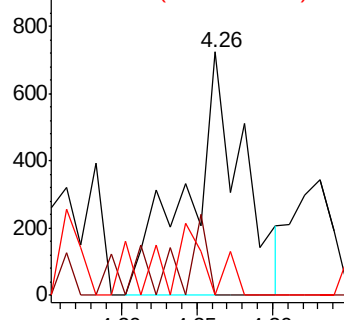
71 20.3 32.7 49.1#



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: 66.926 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.01 min

Lab File: VF060335.D

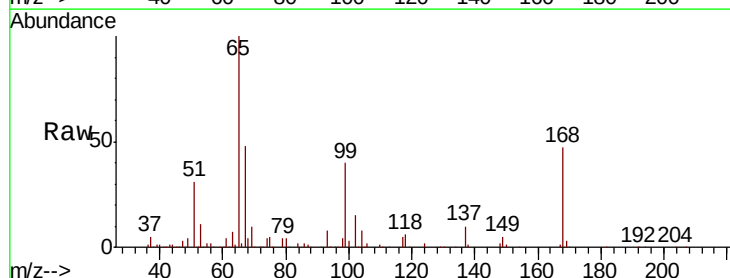
Acq: 25 Sep 2018 20:03

Tgt Ion: 65 Resp: 245520

Ion Ratio Lower Upper

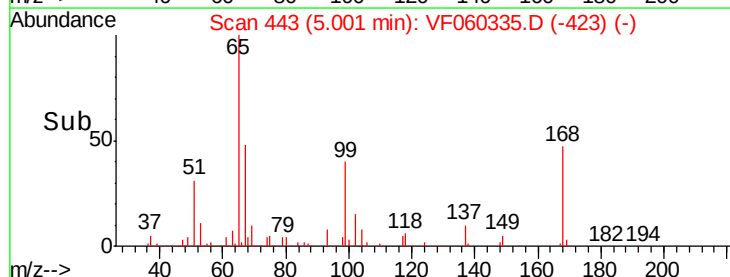
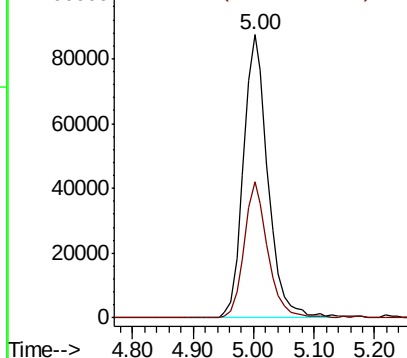
65 100

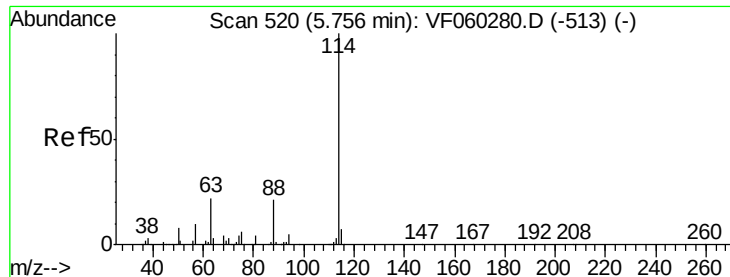
67 48.2 0.0 94.4



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. -0.01 min

Lab File: VF060335.D

Acq: 25 Sep 2018 20:03

Instrument :

MSVOA_F

ClientSampleId :

SU-02-092418-B

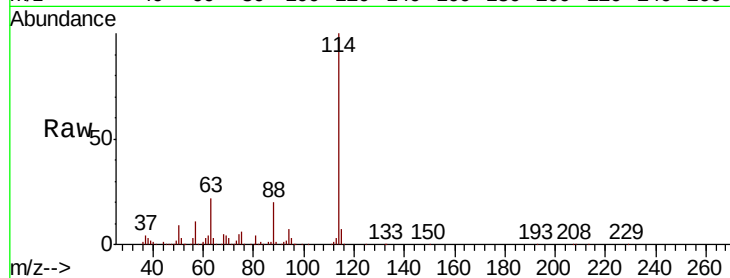
Tgt Ion:114 Resp: 481246

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.8

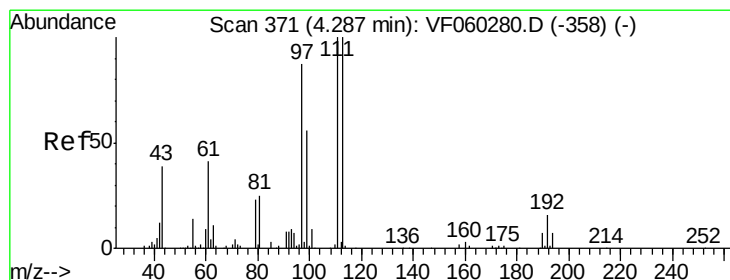
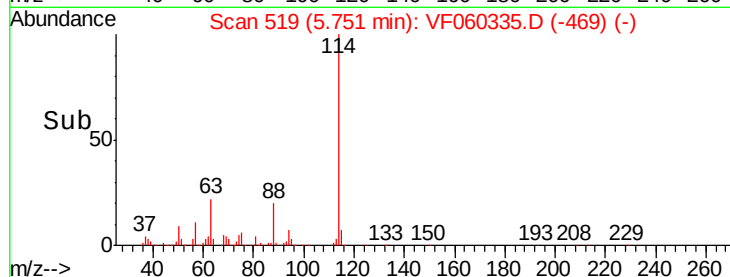
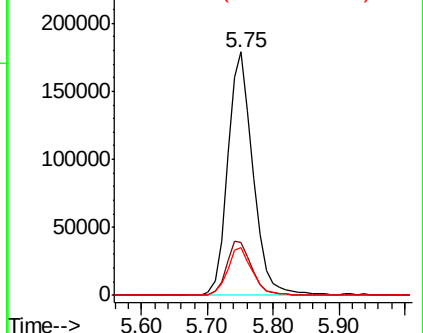
88 19.7 0.0 41.2



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: 60.407 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.01 min

Lab File: VF060335.D

Acq: 25 Sep 2018 20:03

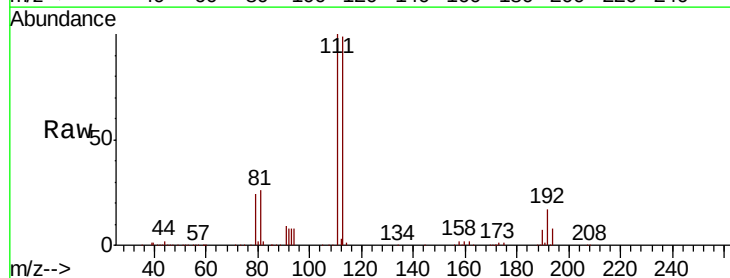
Tgt Ion:113 Resp: 259143

Ion Ratio Lower Upper

113 100

111 100.6 79.6 119.4

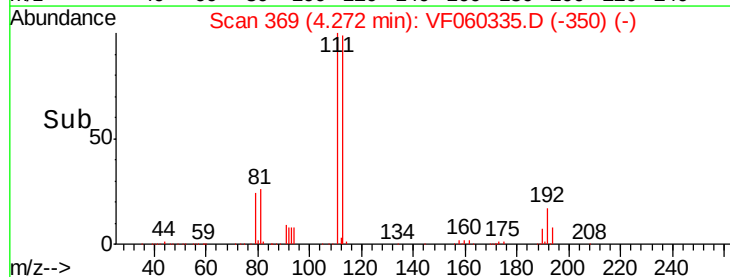
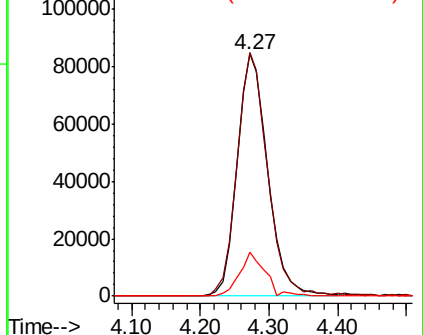
192 18.0 13.0 19.6

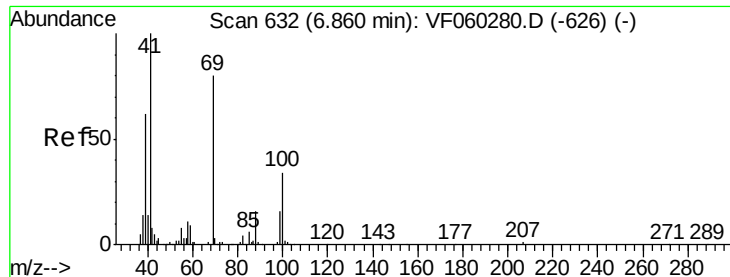


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

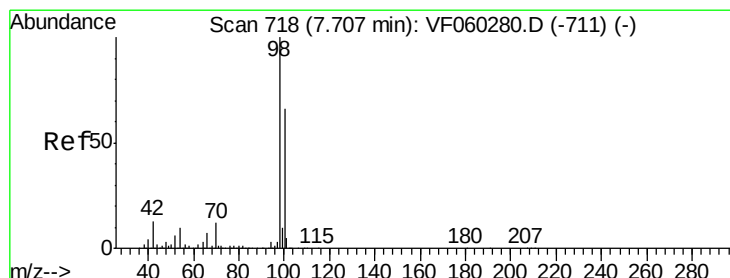
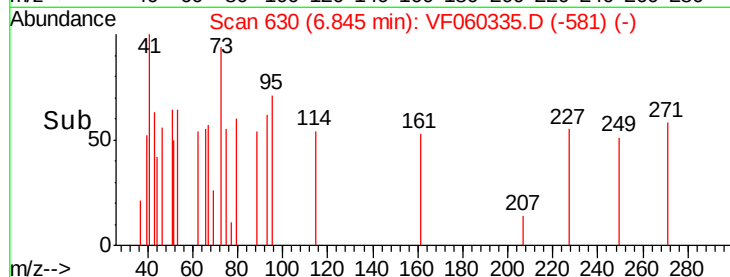
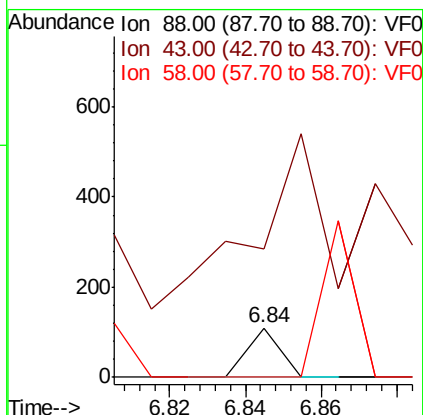
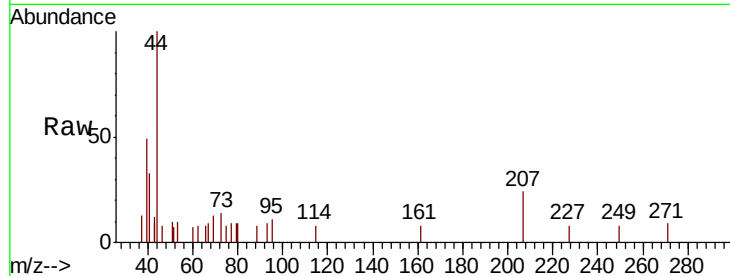




#49
1,4-Dioxane
Concen: 3.390 ug/l
RT: 6.84 min Scan# 630
Delta R.T. -0.01 min
Lab File: VF060335.D
Acq: 25 Sep 2018 20:03

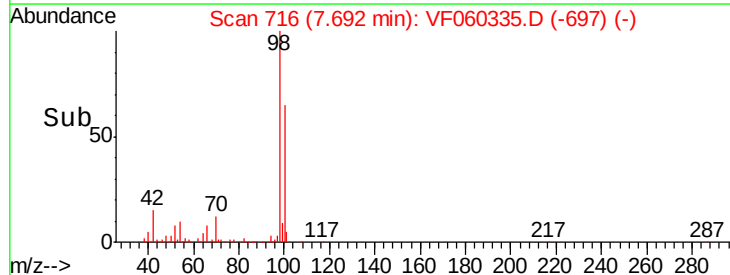
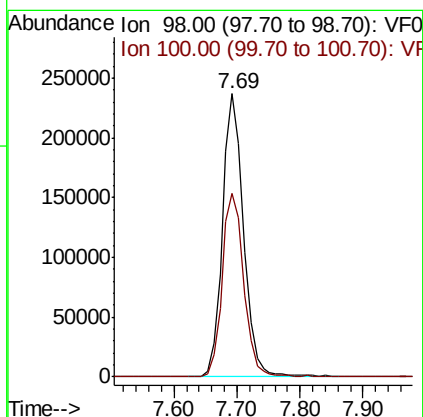
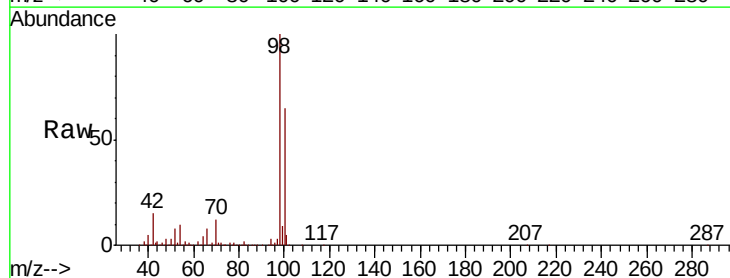
Instrument :
MSVOA_F
ClientSampleId :
SU-02-092418-B

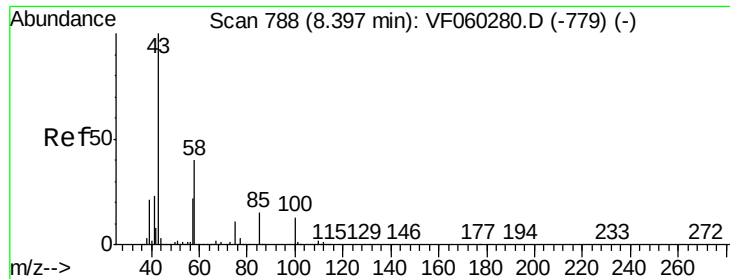
Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 259.1 40.2 60.4#
58 0.0 56.7 85.1#



#50
Toluene-d8
Concen: 49.422 ug/l
RT: 7.69 min Scan# 716
Delta R.T. -0.01 min
Lab File: VF060335.D
Acq: 25 Sep 2018 20:03

Tgt Ion: 98 Resp: 552147
Ion Ratio Lower Upper
98 100
100 64.6 53.0 79.6

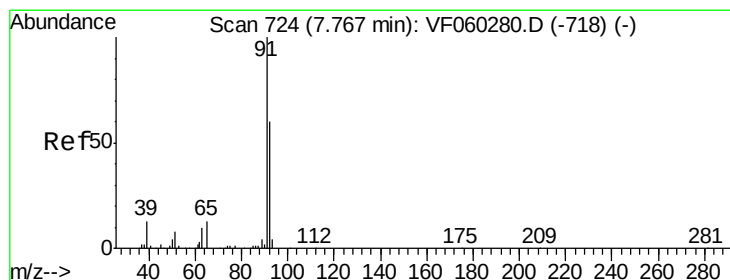
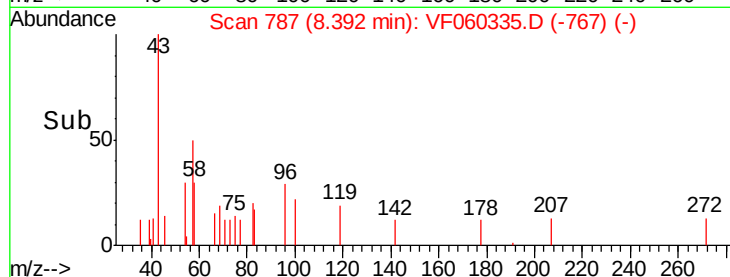
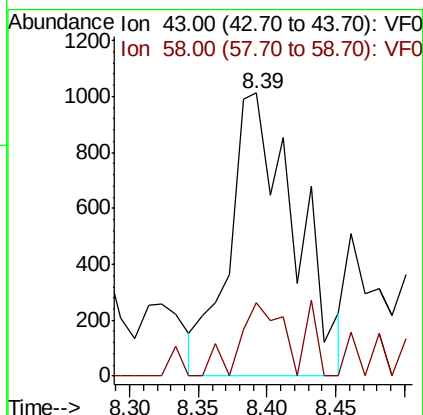
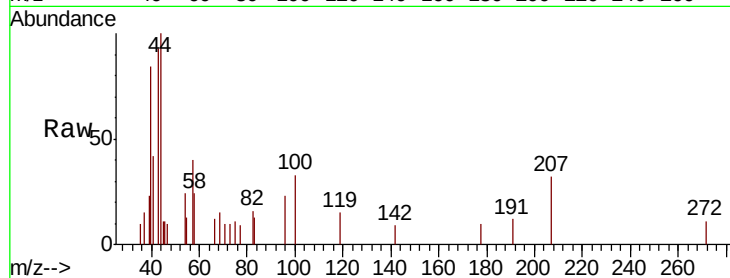




#51
 4-Methyl-2-Pentanone
 Concen: 1.429 ug/l
 RT: 8.39 min Scan# 787
 Delta R.T. -0.01 min
 Lab File: VF060335.D
 Acq: 25 Sep 2018 20:03

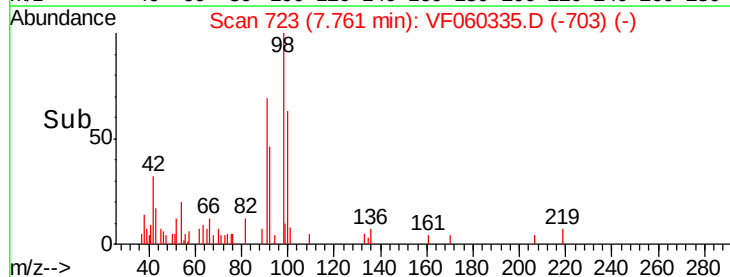
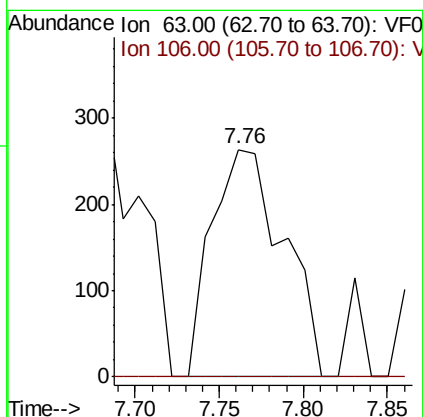
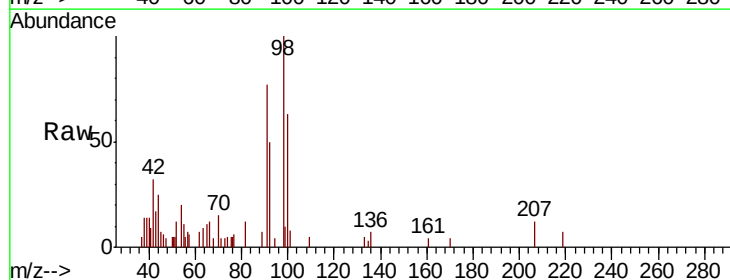
Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-092418-B

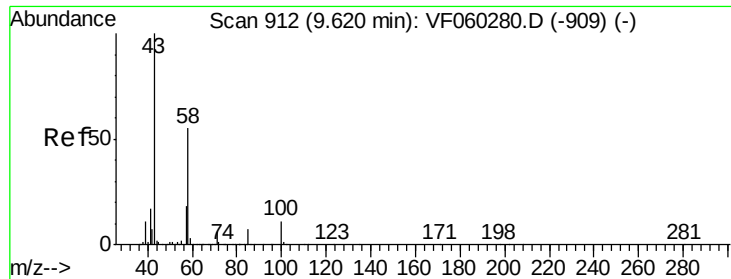
Tgt Ion: 43 Resp: 3368
 Ion Ratio Lower Upper
 43 100
 58 25.9 31.8 47.8#



#58
 2-Chloroethyl Vinyl ether
 Concen: 2.810 ug/l
 RT: 7.76 min Scan# 723
 Delta R.T. -0.01 min
 Lab File: VF060335.D
 Acq: 25 Sep 2018 20:03

Tgt Ion: 63 Resp: 784
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0

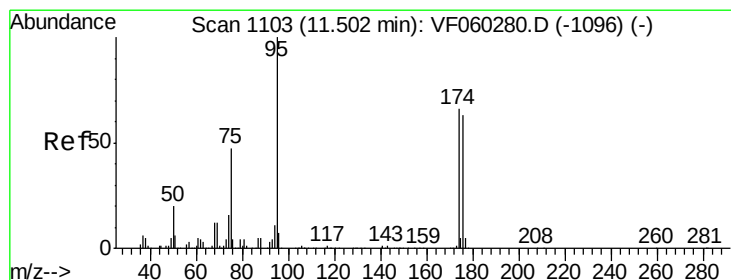
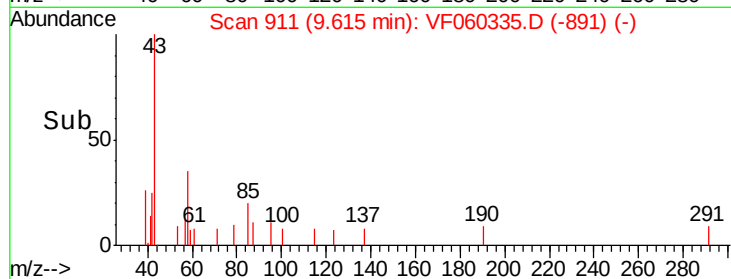
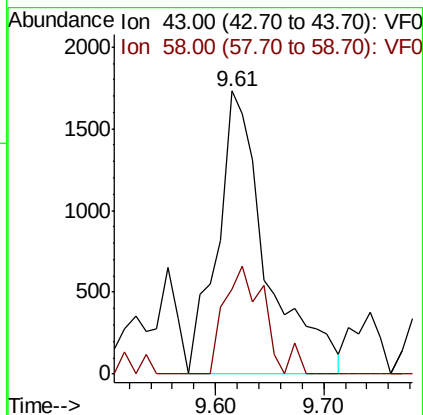
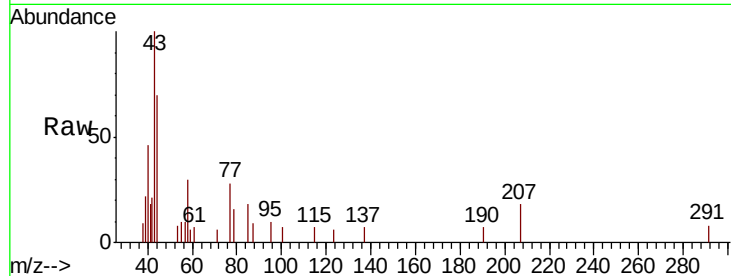




#59
2-Hexanone
Concen: 3.260 ug/l
RT: 9.61 min Scan# 911
Delta R.T. -0.01 min
Lab File: VF060335.D
Acq: 25 Sep 2018 20:03

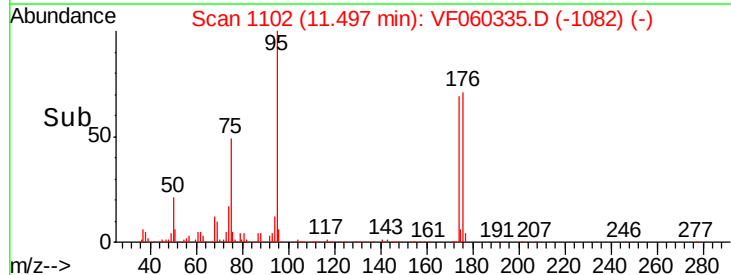
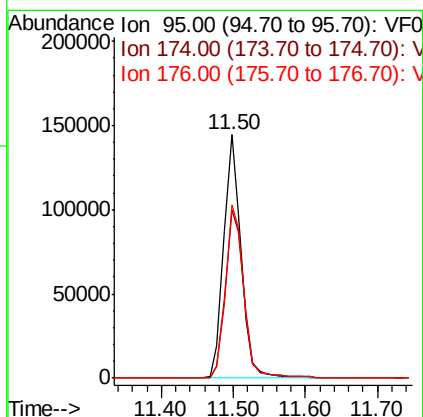
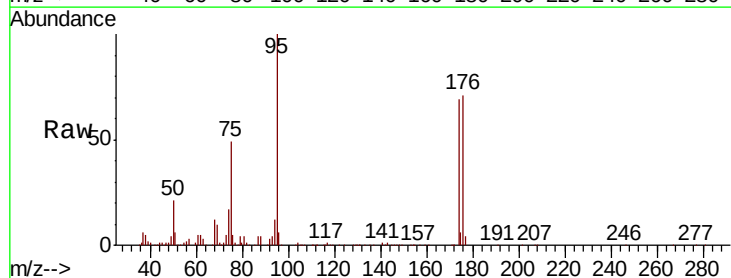
Instrument :
MSVOA_F
ClientSampleId :
SU-02-092418-B

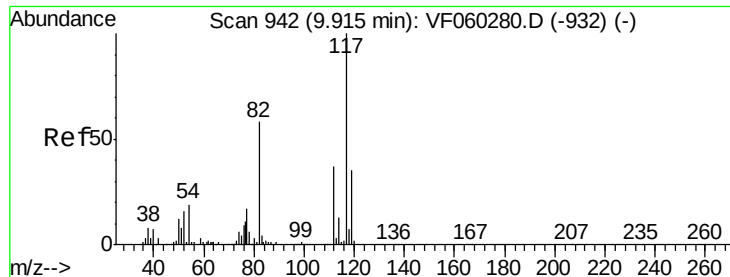
Tgt Ion: 43 Resp: 5471
Ion Ratio Lower Upper
43 100
58 29.8 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 50.055 ug/l
RT: 11.50 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VF060335.D
Acq: 25 Sep 2018 20:03

Tgt Ion: 95 Resp: 241731
Ion Ratio Lower Upper
95 100
174 69.2 0.0 131.2
176 71.0 0.0 126.6

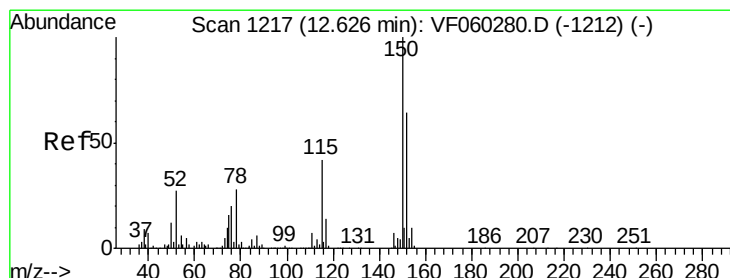
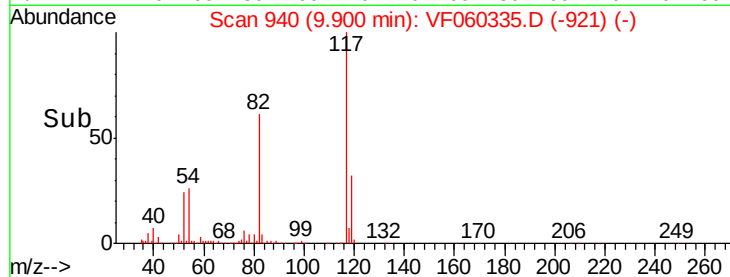
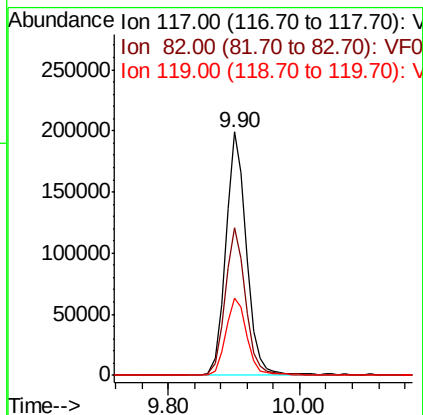
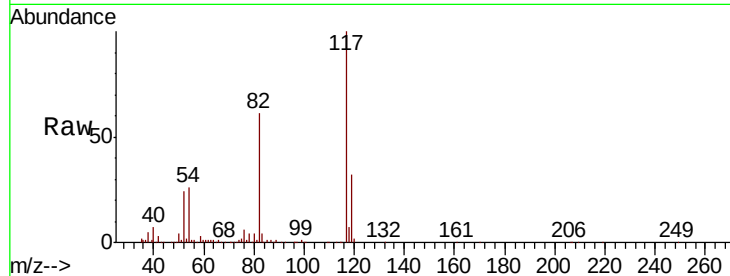




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.01 min
Lab File: VF060335.D
Acq: 25 Sep 2018 20:03

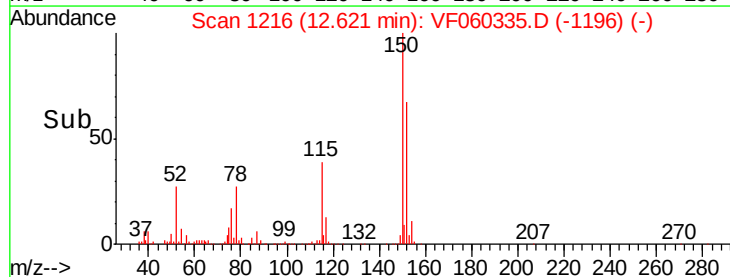
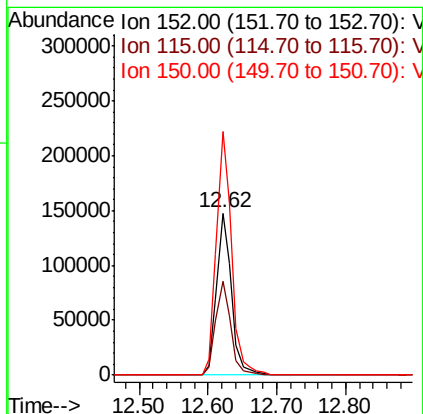
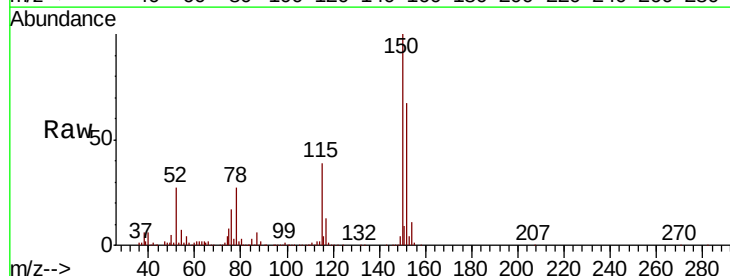
Instrument :
MSVOA_F
ClientSampleId :
SU-02-092418-B

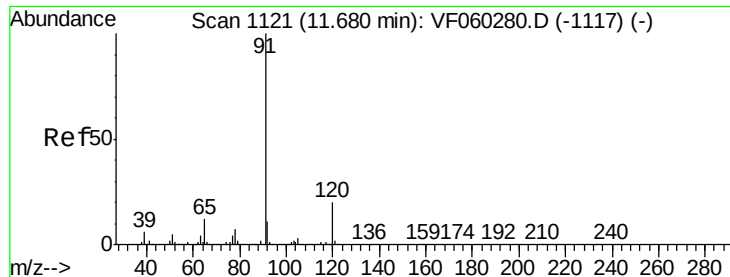
Tgt Ion:117 Resp: 439278
Ion Ratio Lower Upper
117 100
82 60.9 46.2 69.2
119 31.9 27.8 41.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.01 min
Lab File: VF060335.D
Acq: 25 Sep 2018 20:03

Tgt Ion:152 Resp: 222170
Ion Ratio Lower Upper
152 100
115 58.3 32.6 97.8
150 150.2 0.0 314.2





#78

n-propylbenzene

Concen: Below Cal

RT: 11.67 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VF060335.D

Acq: 25 Sep 2018 20:03

Instrument :

MSVOA_F

ClientSampleId :

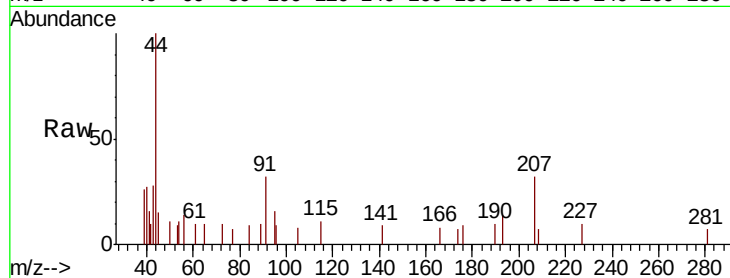
SU-02-092418-B

Tgt Ion: 91 Resp: 1164

Ion Ratio Lower Upper

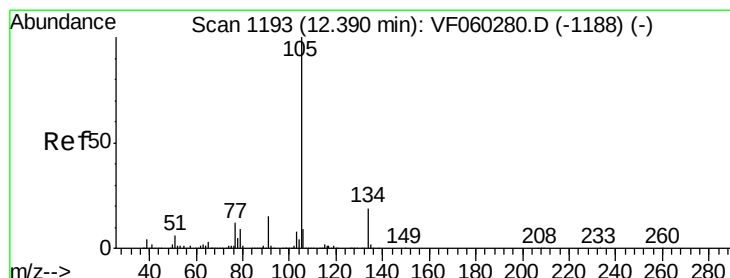
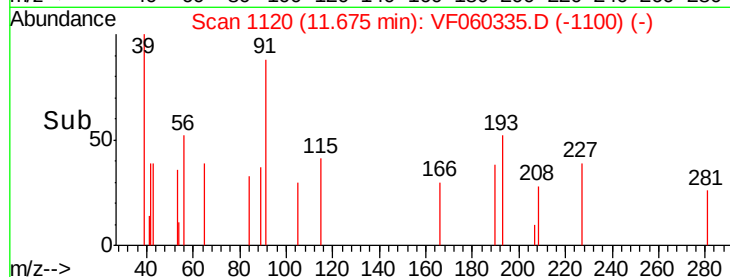
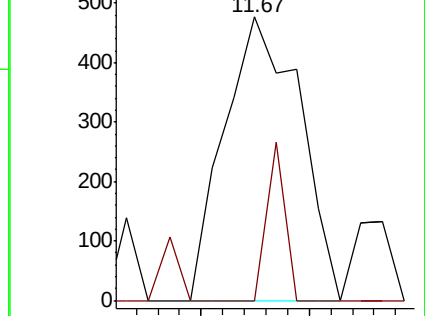
91 100

120 0.0 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: 12.37 min Scan# 1191

Delta R.T. -0.01 min

Lab File: VF060335.D

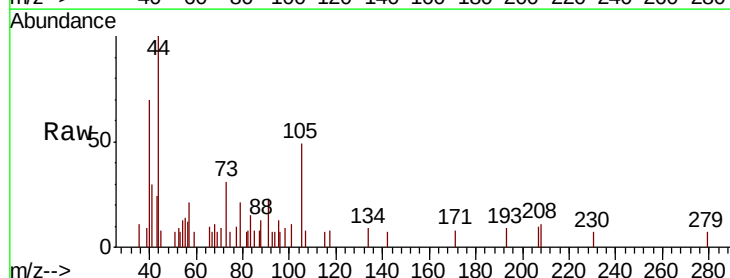
Acq: 25 Sep 2018 20:03

Tgt Ion: 105 Resp: 973

Ion Ratio Lower Upper

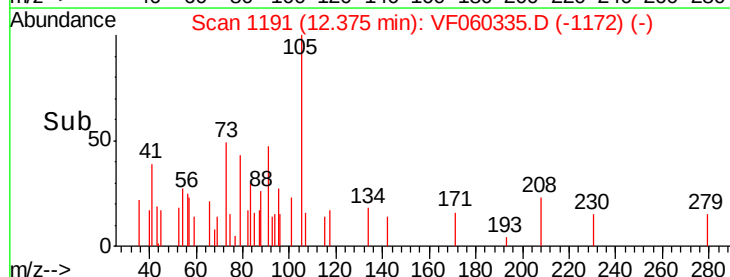
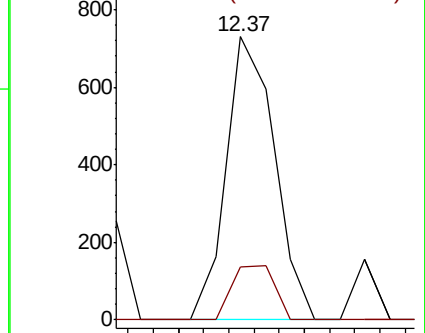
105 100

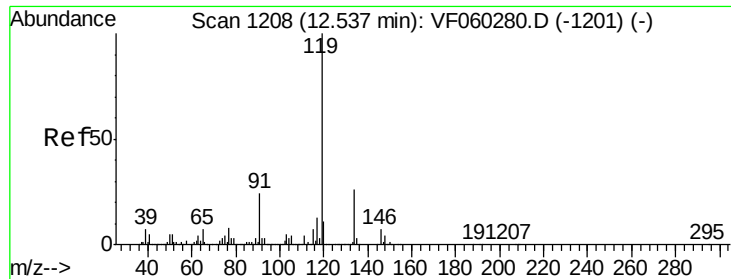
134 18.5 9.6 28.6



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: VF060335.D
 Acq: 25 Sep 2018 20:03

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

Tgt Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.9	38.7#
91	20.7	11.9	35.7

