

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092018\
 Data File : VF060309.D
 Acq On : 20 Sep 2018 20:43
 Operator : VA/AP
 Sample : J5025-02
 Misc : 9.67/5mL/MSVOA F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-PS-01-041

Quant Time: Sep 21 05:24:49 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	269386	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.74	114	449588	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.89	117	334483	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	148952	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	163110	44.97	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	89.94%	
35) Dibromofluoromethane	4.27	113	177895	44.39	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	88.78%	
50) Toluene-d8	7.69	98	347771	33.32	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	66.64%	
62) 4-Bromofluorobenzene	11.49	95	144980	32.13	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	64.26%	

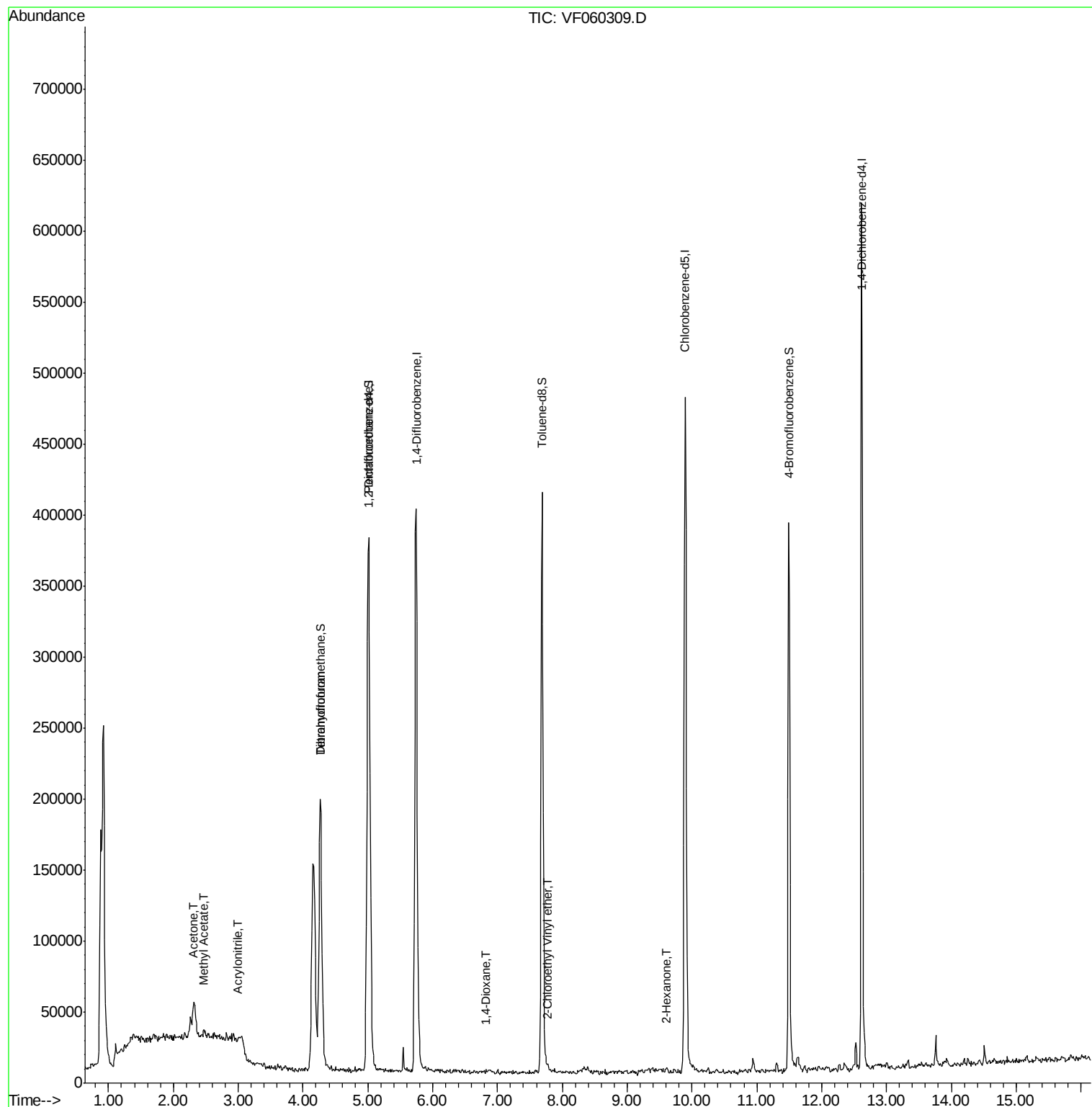
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	0.99	85	1266	Below Cal		77
5) Bromomethane	1.25	94	809	Below Cal		86
11) Tert butyl alcohol	2.67	59	2430	Below Cal	#	13
13) Acrolein	2.09	56	548	Below Cal	#	1
15) Acrylonitrile	2.98	53	2505	4.89	ug/l	99
16) Acetone	2.32	43	28368	27.77	ug/l	94
17) Carbon Disulfide	1.89	76	1119	Below Cal	#	1
18) Methyl Acetate	2.47	43	2559	1.50	ug/l	# 62
20) Methylene Chloride	2.27	84	4956	Below Cal	#	77
29) Tetrahydrofuran	4.26	42	926	1.84	ug/l	# 53
49) 1,4-Dioxane	6.83	88	241	13.45	ug/l	# 1
58) 2-Chloroethyl Vinyl ether	7.78	63	306	1.17	ug/l	100
59) 2-Hexanone	9.61	43	3203	2.04	ug/l	89
78) n-propylbenzene	11.67	91	1072	Below Cal	#	57
85) sec-Butylbenzene	12.38	105	1606	Below Cal	#	58
86) p-Isopropyltoluene	12.53	119	10449	Below Cal		95
89) n-Butylbenzene	12.90	91	1620	Below Cal	#	85

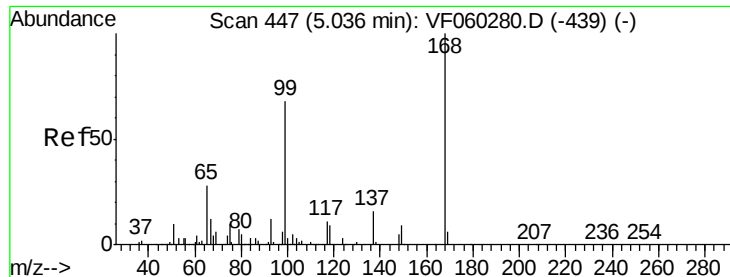
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 445

Delta R.T. -0.02 min

Lab File: VF060309.D

Acq: 20 Sep 2018 20:43

Instrument :

MSVOA_F

ClientSampleId :

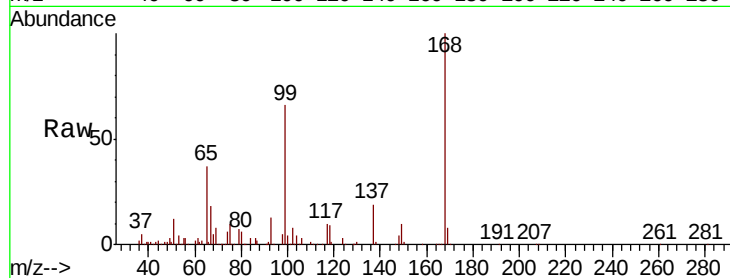
FK-PS-01-041

Tot Ion:168 Resp: 269386

Ion Ratio Lower Upper

168 100

99 65.9 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

80000

60000

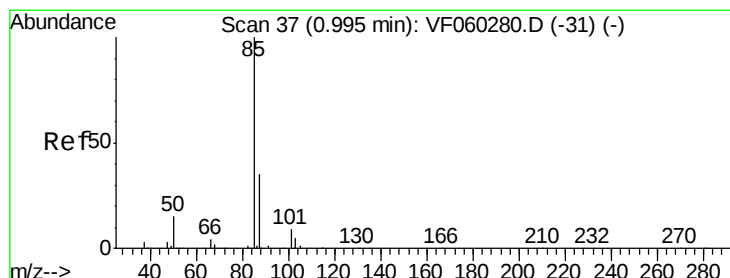
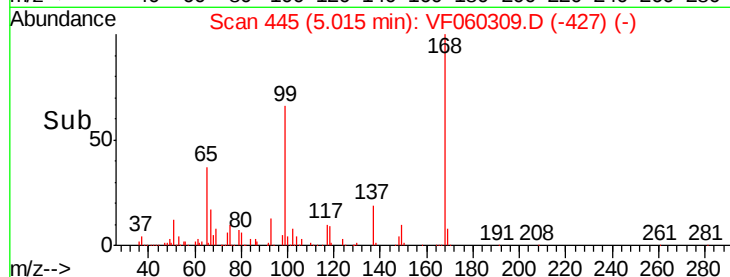
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 37

Delta R.T. -0.00 min

Lab File: VF060309.D

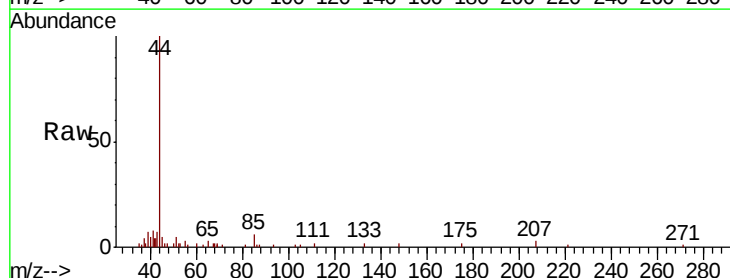
Acq: 20 Sep 2018 20:43

Tgt Ion: 85 Resp: 1266

Ion Ratio Lower Upper

85 100

87 21.6 17.3 52.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

600

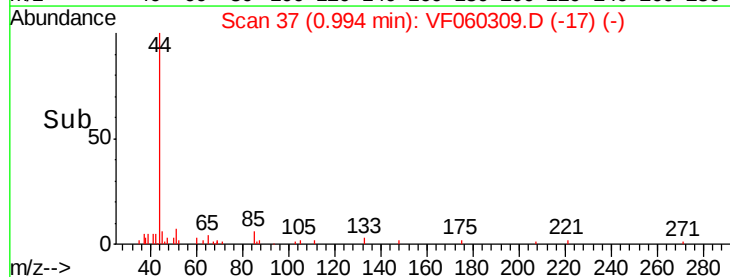
400

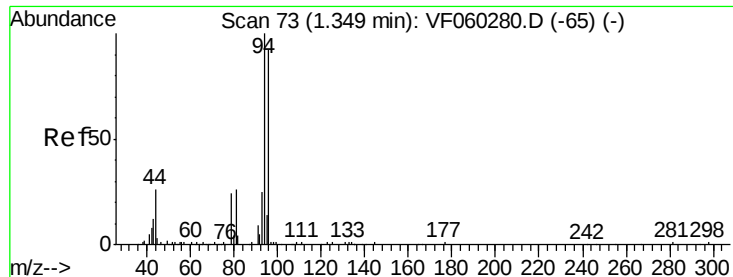
200

0

0.95 1.00 1.05

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.25 min Scan# 63

Delta R.T. -0.10 min

Lab File: VF060309.D

Acq: 20 Sep 2018 20:43

Instrument :

MSVOA_F

ClientSampleId :

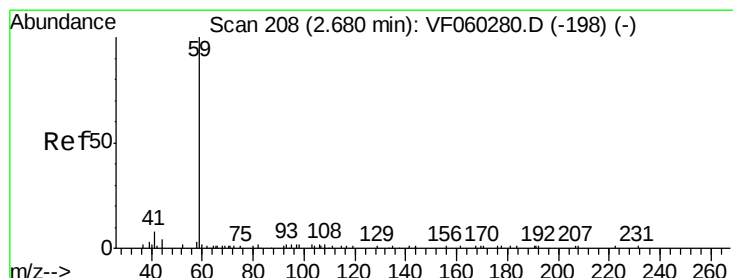
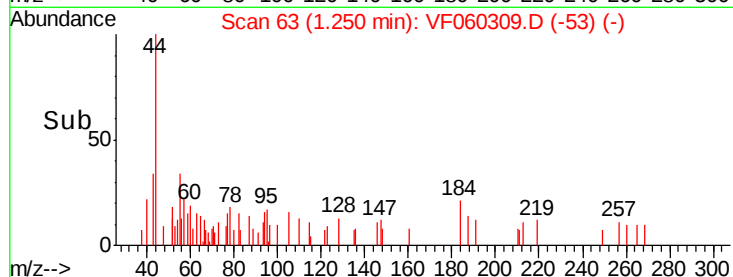
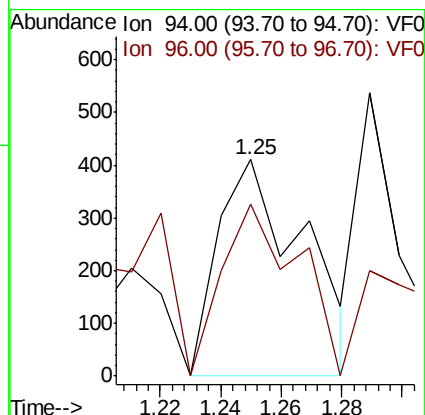
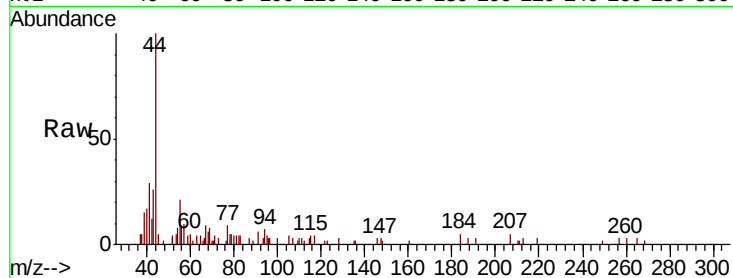
FK-PS-01-041

Tot Ion: 94 Resp: 809

Ion Ratio Lower Upper

94 100

96 79.3 73.9 110.9



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.67 min Scan# 207

Delta R.T. -0.01 min

Lab File: VF060309.D

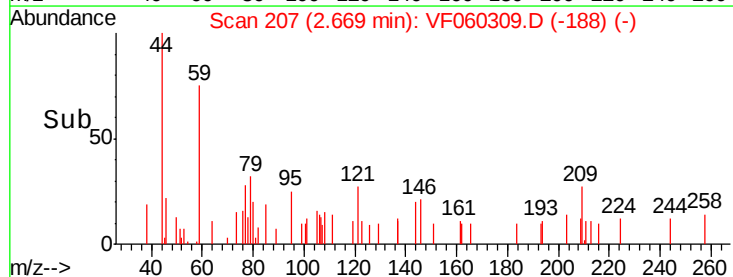
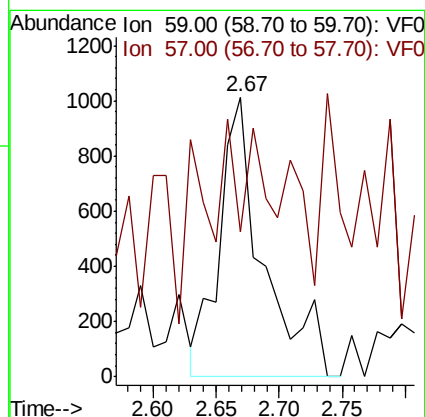
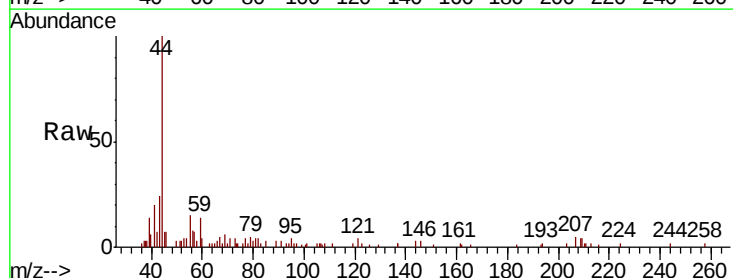
Acq: 20 Sep 2018 20:43

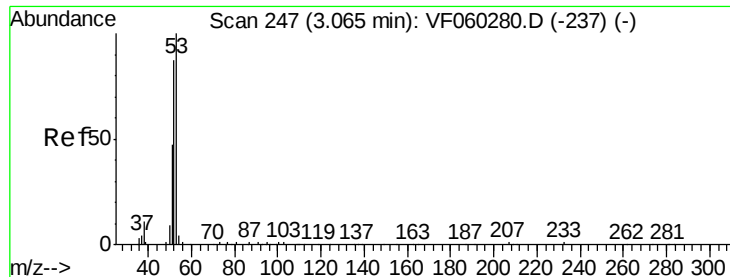
Tgt Ion: 59 Resp: 2430

Ion Ratio Lower Upper

59 100

57 52.0 12.4 18.6#





#15

Acrylonitrile

Concen: 4.89 ug/l

RT: 2.98 min Scan# 239

Delta R.T. -0.08 min

Lab File: VF060309.D

Acq: 20 Sep 2018 20:43

Instrument :

MSVOA_F

ClientSampleId :

FK-PS-01-041

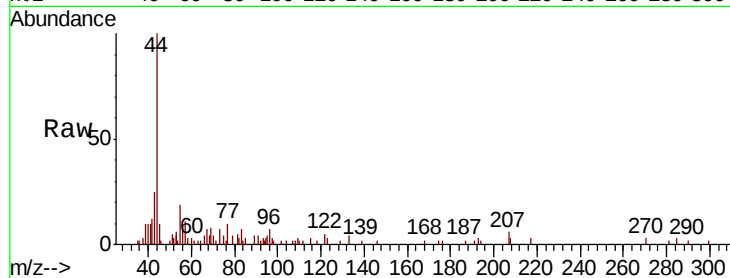
Tot Ion: 53 Resp: 2505

Ion Ratio Lower Upper

53 100

52 86.3 69.5 104.3

51 48.5 38.1 57.1



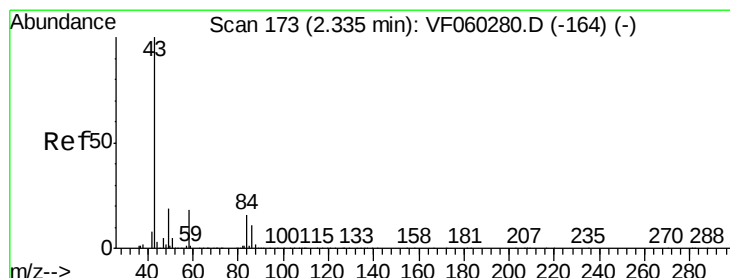
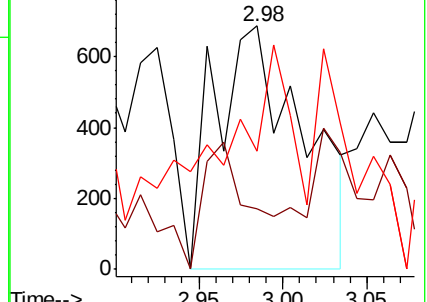
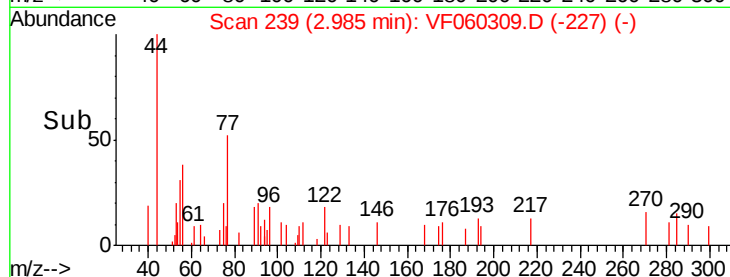
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

2.98

Time-->



#16

Acetone

Concen: 27.77 ug/l

RT: 2.32 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060309.D

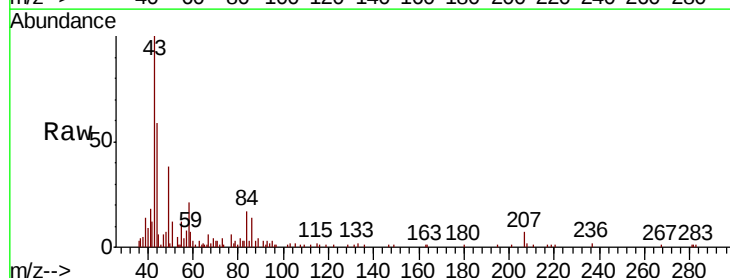
Acq: 20 Sep 2018 20:43

Tgt Ion: 43 Resp: 28368

Ion Ratio Lower Upper

43 100

58 20.6 14.5 21.7

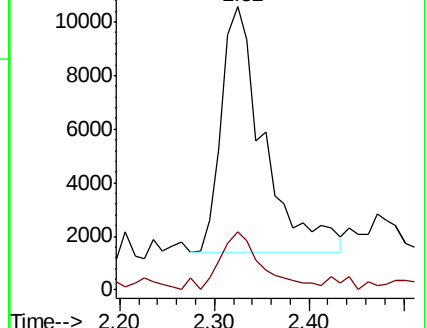
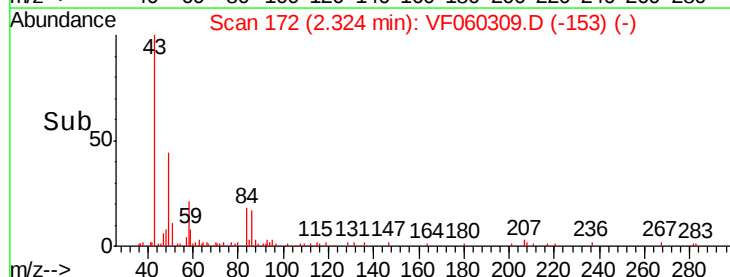


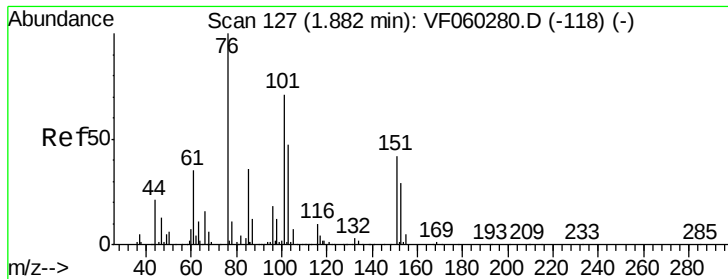
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.32

Time-->





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.89 min Scan# 128

Delta R.T. 0.01 min

Lab File: VF060309.D

Acq: 20 Sep 2018 20:43

Instrument :

MSVOA_F

ClientSampleId :

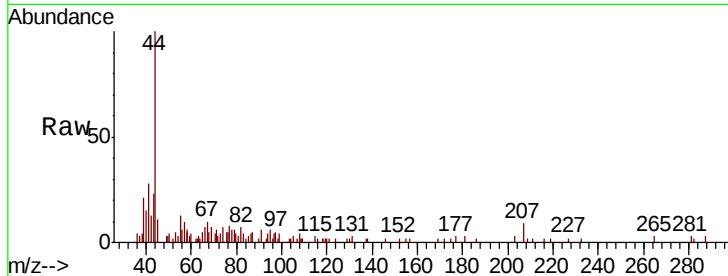
FK-PS-01-041

Tot Ion: 76 Resp: 1119

Ion Ratio Lower Upper

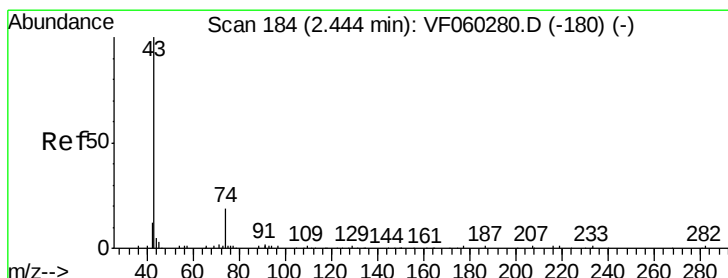
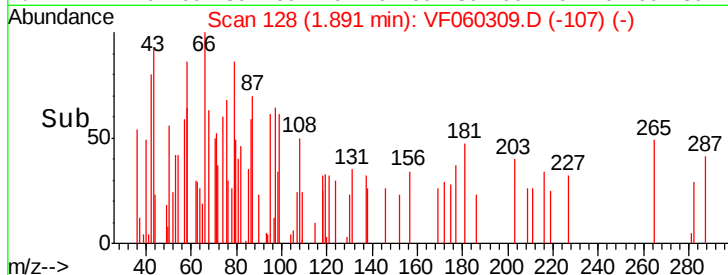
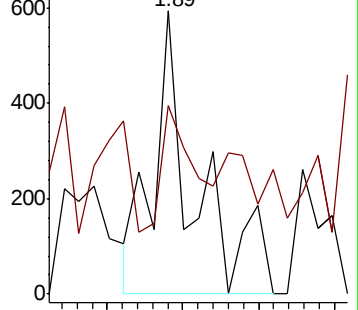
76 100

78 66.8 9.4 14.0#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 1.50 ug/l

RT: 2.47 min Scan# 187

Delta R.T. 0.03 min

Lab File: VF060309.D

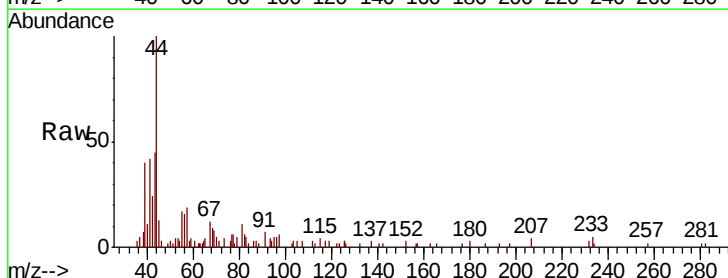
Acq: 20 Sep 2018 20:43

Tgt Ion: 43 Resp: 2559

Ion Ratio Lower Upper

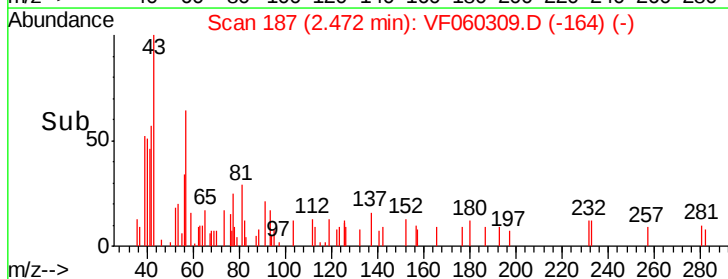
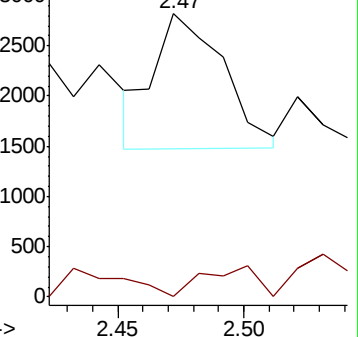
43 100

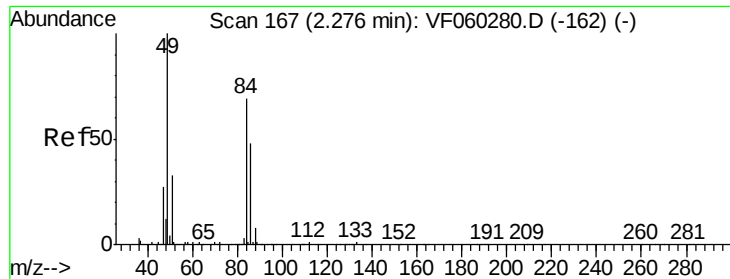
74 0.0 12.7 19.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

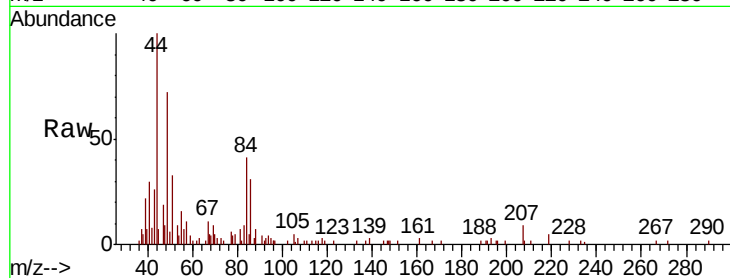




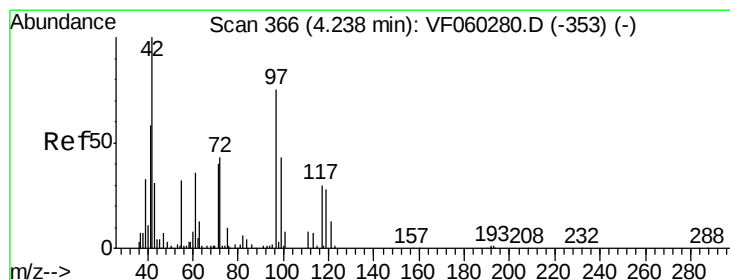
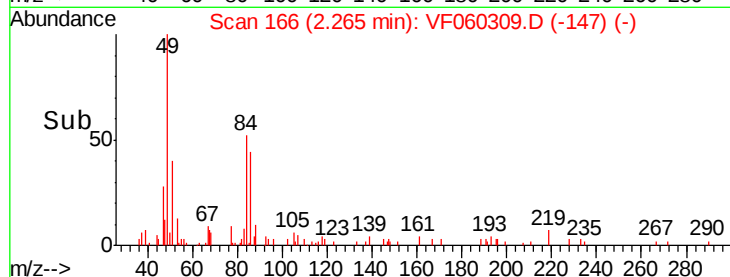
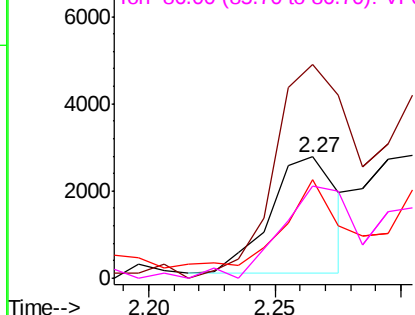
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. -0.01 min
Lab File: VF060309.D
Acq: 20 Sep 2018 20:43

Instrument :
MSVOA_F
ClientSampleId :
FK-PS-01-041

Tot Ion:	84	Resp:	4956
Ion	Ratio	Lower	Upper
84	100		
49	176.1	118.3	177.5
51	81.0	38.7	58.1#
86	75.9	55.8	83.6

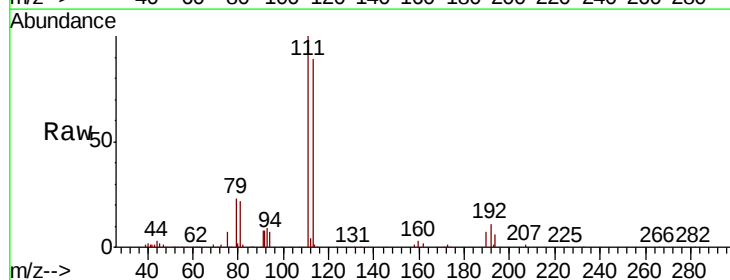


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

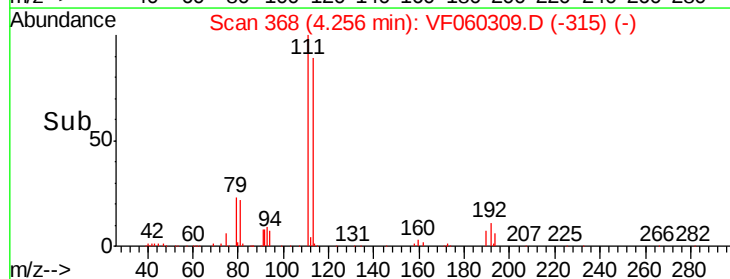
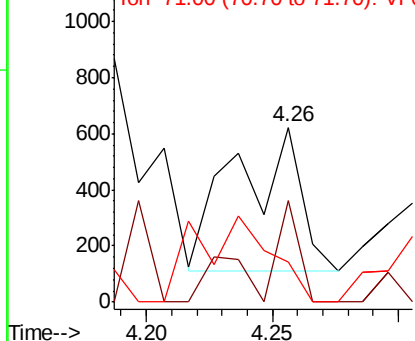


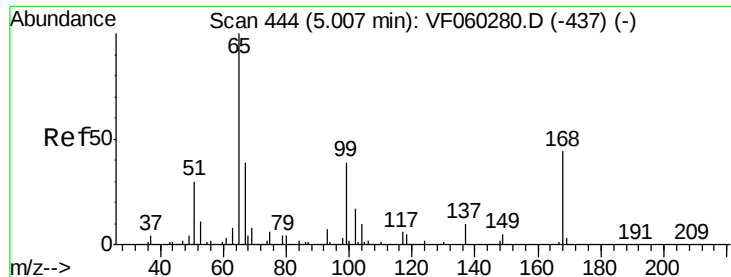
#29
Tetrahydrofuran
Concen: 1.84 ug/l
RT: 4.26 min Scan# 368
Delta R.T. 0.02 min
Lab File: VF060309.D
Acq: 20 Sep 2018 20:43

Tgt Ion:	42	Resp:	926
Ion	Ratio	Lower	Upper
42	100		
72	23.0	32.6	49.0#
71	0.0	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: 44.97 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.01 min

Lab File: VF060309.D

Acq: 20 Sep 2018 20:43

Instrument :

MSVOA_F

ClientSampleId :

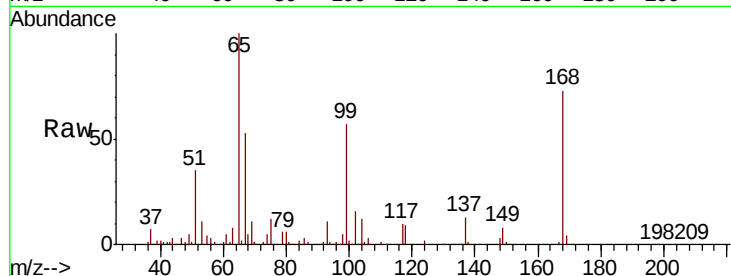
FK-PS-01-041

Tot Ion: 65 Resp: 163110

Ion Ratio Lower Upper

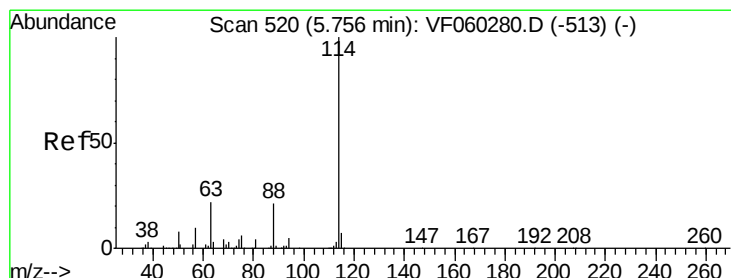
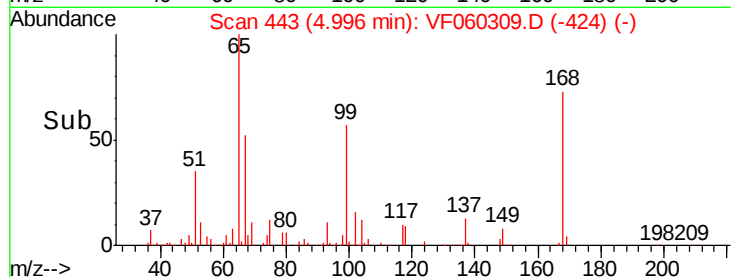
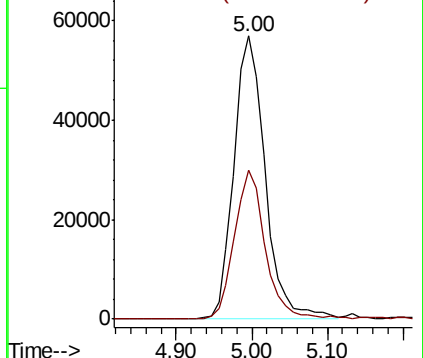
65 100

67 52.6 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: 50.00 ug/l

RT: 5.74 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF060309.D

Acq: 20 Sep 2018 20:43

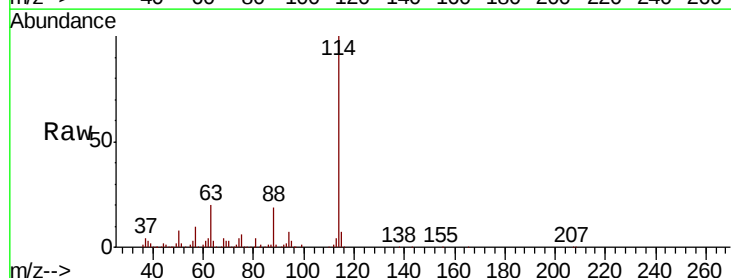
Tgt Ion: 114 Resp: 449588

Ion Ratio Lower Upper

114 100

63 20.0 0.0 43.8

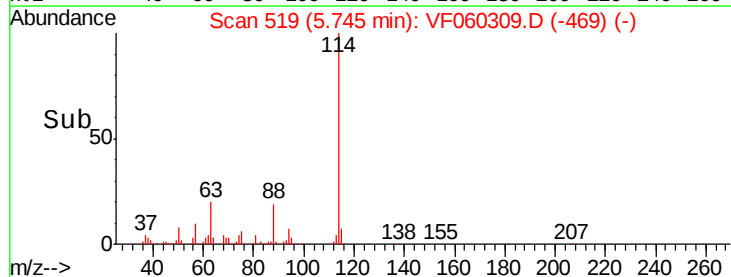
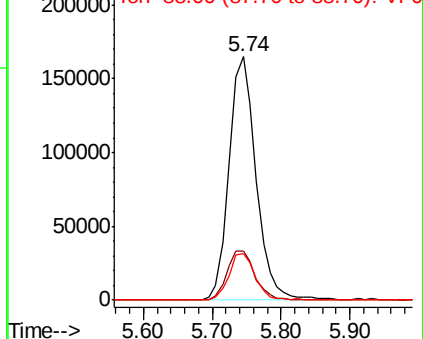
88 18.9 0.0 41.2

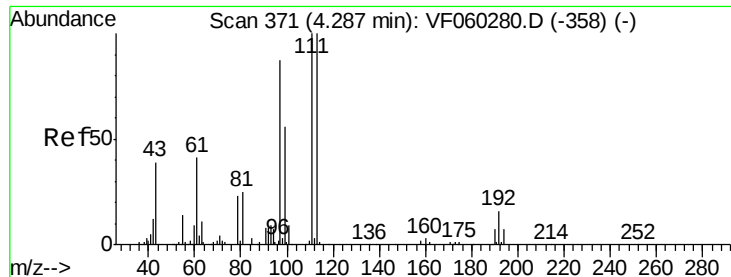


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

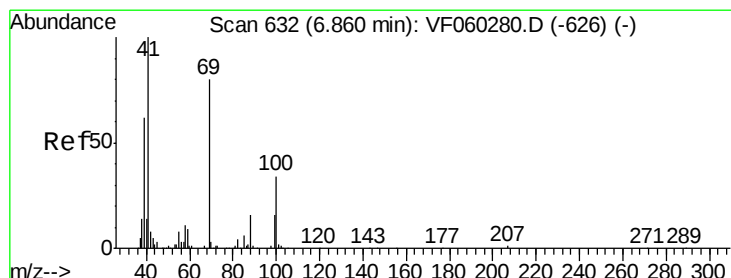
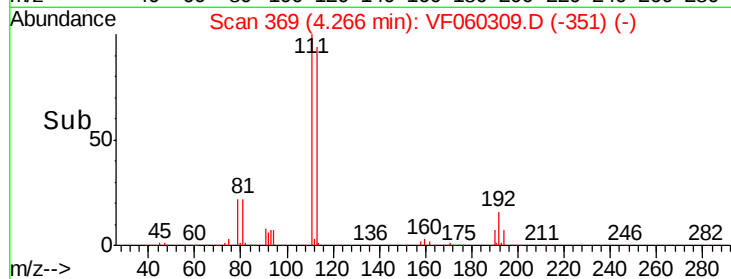
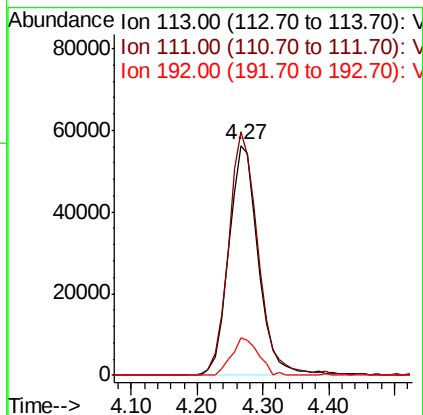
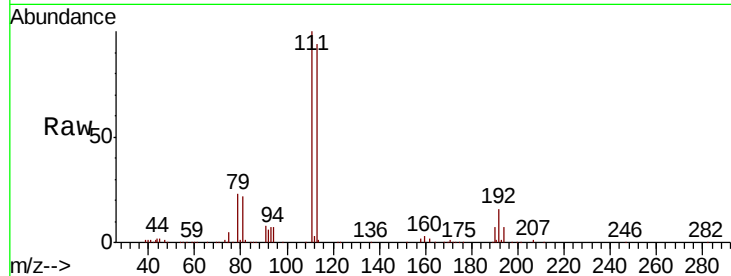




#35
 Dibromofluoromethane
 Concen: 44.39 ug/l
 RT: 4.27 min Scan# 369
 Delta R.T. -0.02 min
 Lab File: VF060309.D
 Acq: 20 Sep 2018 20:43

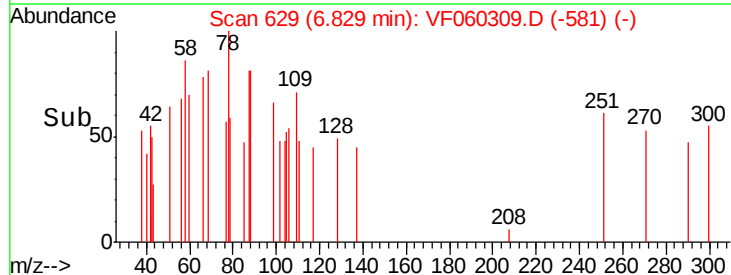
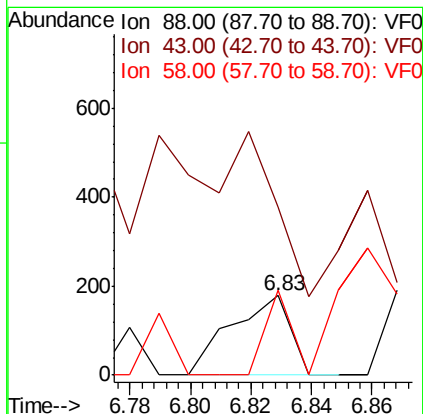
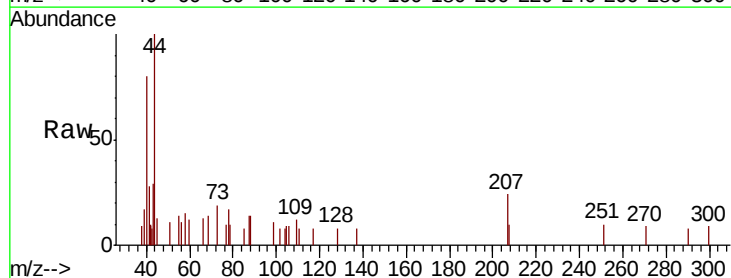
Instrument :
 MSVOA_F
 ClientSampleId :
 FK-PS-01-041

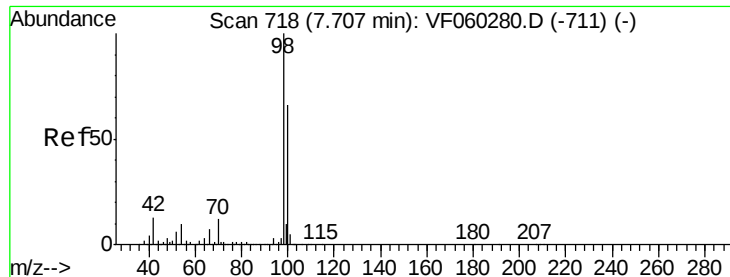
Tot Ion	Ratio	Lower	Upper
113	100		
111	105.9	79.6	119.4
192	16.6	13.0	19.6



#49
 1,4-Dioxane
 Concen: 13.45 ug/l
 RT: 6.83 min Scan# 629
 Delta R.T. -0.03 min
 Lab File: VF060309.D
 Acq: 20 Sep 2018 20:43

Tgt Ion	Ratio	Lower	Upper
88	100		
43	211.2	40.2	60.4#
58	107.3	56.7	85.1#





#50

Toluene-d8

Concen: 33.32 ug/l

RT: 7.69 min Scan# 716

Delta R.T. -0.02 min

Lab File: VF060309.D

Acq: 20 Sep 2018 20:43

Instrument :

MSVOA_F

ClientSampleId :

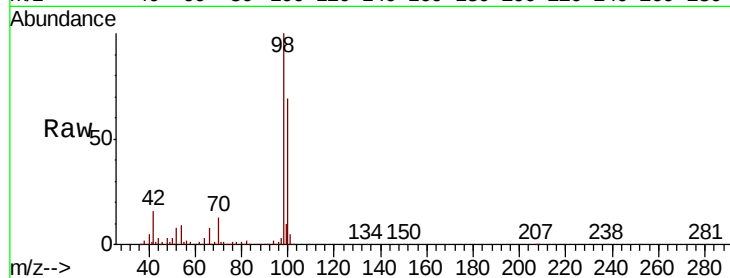
FK-PS-01-041

Tot Ion: 98 Resp: 347771

Ion Ratio Lower Upper

98 100

100 69.0 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

150000

100000

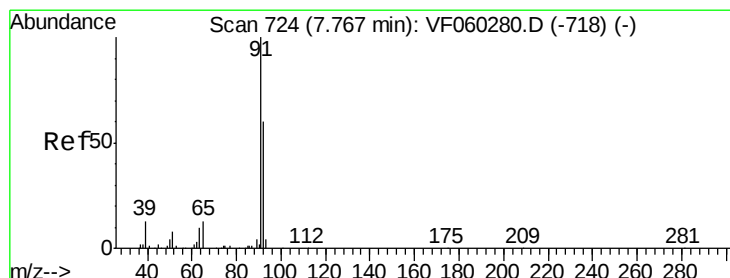
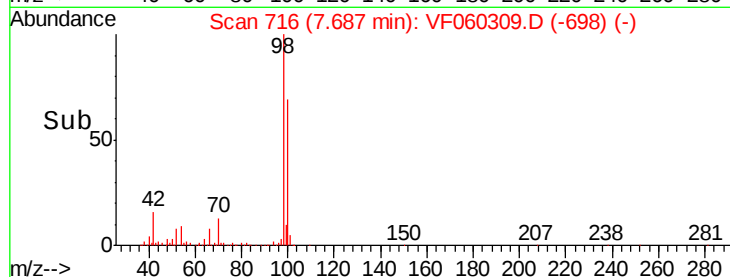
50000

0

7.69

7.60 7.70 7.80

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1.17 ug/l

RT: 7.78 min Scan# 725

Delta R.T. 0.01 min

Lab File: VF060309.D

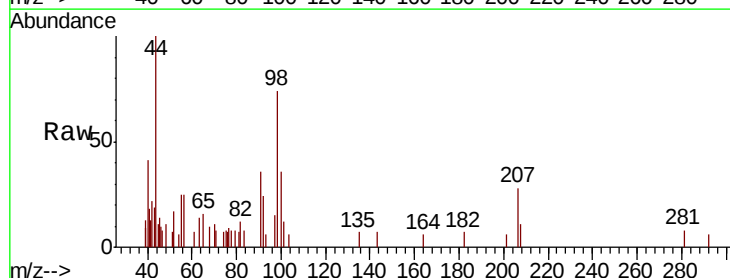
Acq: 20 Sep 2018 20:43

Tgt Ion: 63 Resp: 306

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

250

200

150

100

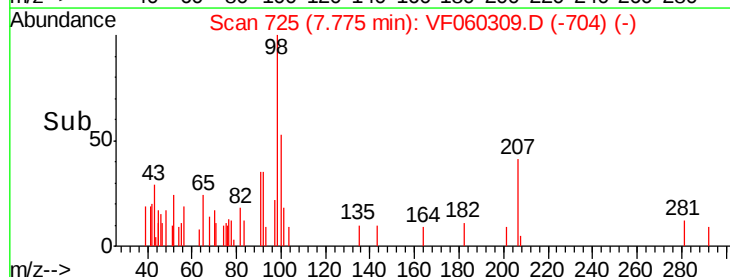
50

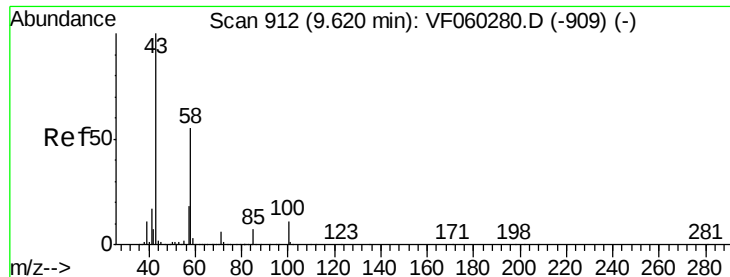
0

7.78

7.75 7.80

Time-->

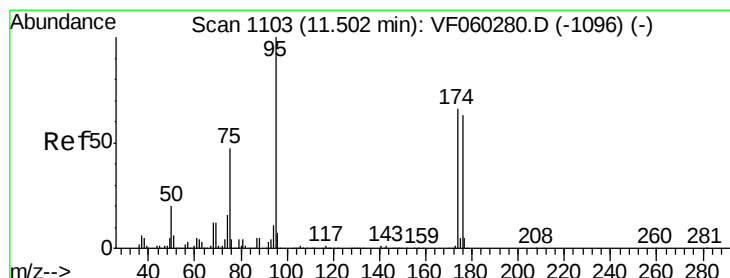
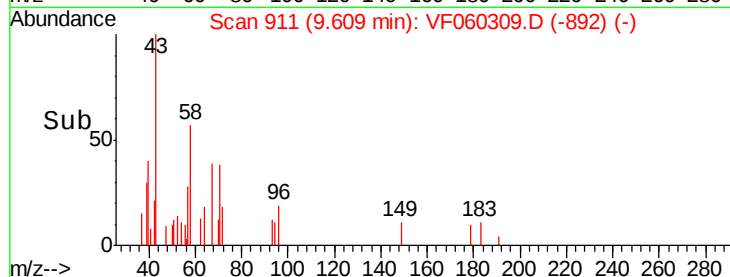
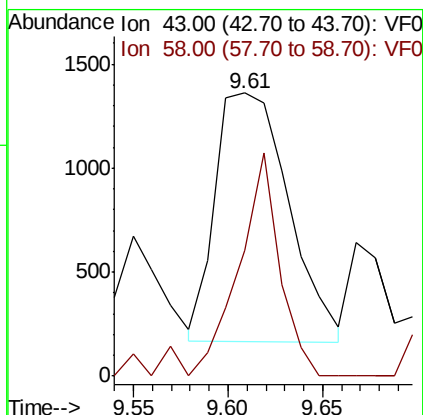
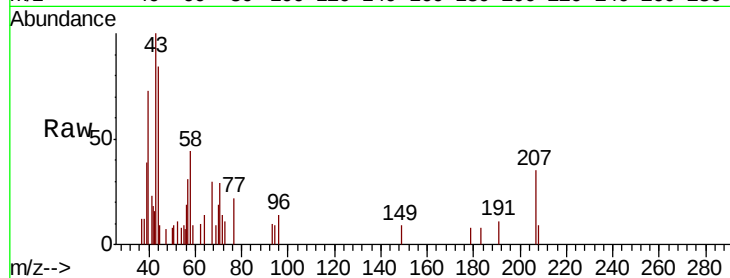




#59
2-Hexanone
Concen: 2.04 ug/l
RT: 9.61 min Scan# 911
Delta R.T. -0.01 min
Lab File: VF060309.D
Acq: 20 Sep 2018 20:43

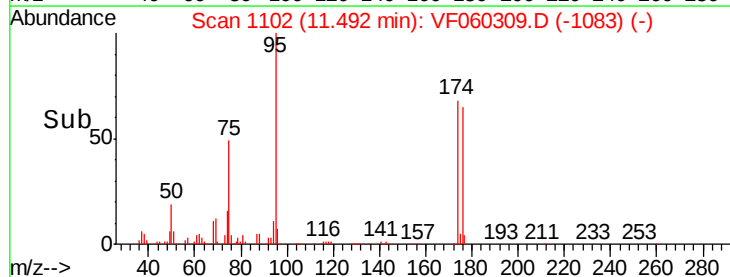
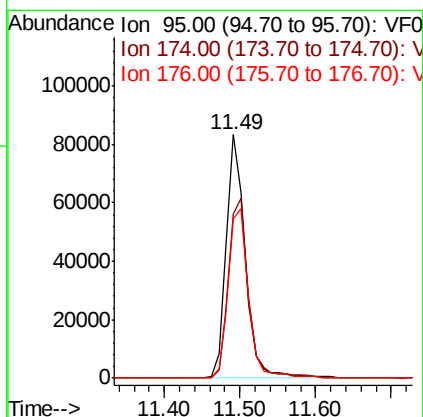
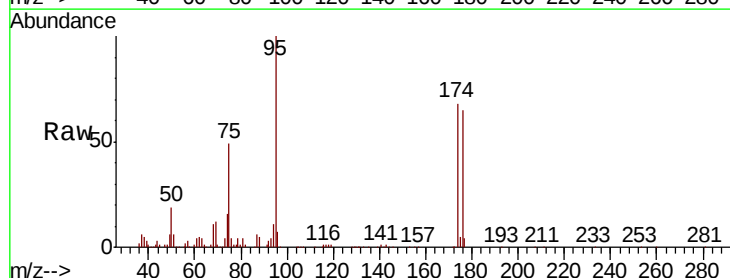
Instrument :
MSVOA_F
ClientSampleId :
FK-PS-01-041

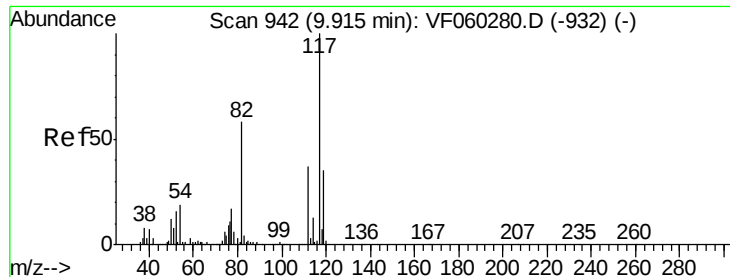
Tot Ion: 43 Resp: 3203
Ion Ratio Lower Upper
43 100
58 44.3 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 32.13 ug/l
RT: 11.49 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VF060309.D
Acq: 20 Sep 2018 20:43

Tgt Ion: 95 Resp: 144980
Ion Ratio Lower Upper
95 100
174 67.5 0.0 131.2
176 65.3 0.0 126.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.89 min Scan# 940

Delta R.T. -0.02 min

Lab File: VF060309.D

Acq: 20 Sep 2018 20:43

Instrument :

MSVOA_F

ClientSampleId :

FK-PS-01-041

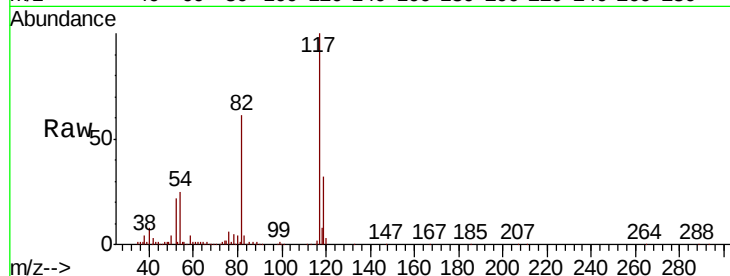
Tot Ion:117 Resp: 334483

Ion Ratio Lower Upper

117 100

82 60.7 46.2 69.2

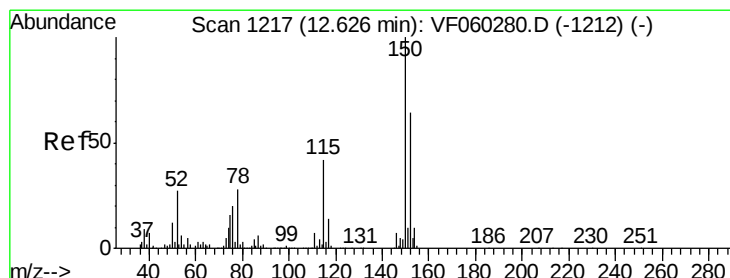
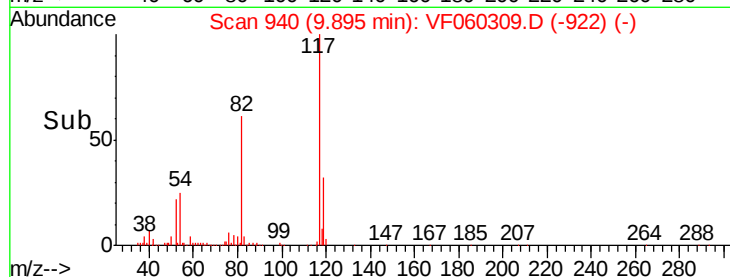
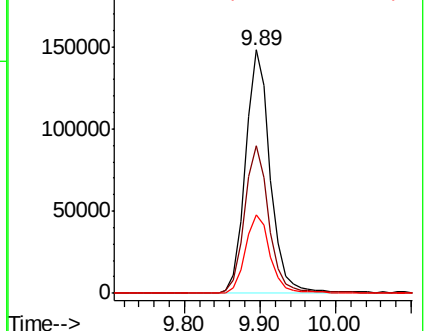
119 32.0 27.8 41.6



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: 50.00 ug/l

RT: 12.62 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VF060309.D

Acq: 20 Sep 2018 20:43

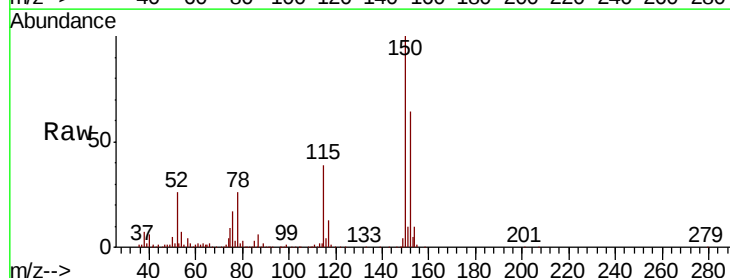
Tgt Ion:152 Resp: 148952

Ion Ratio Lower Upper

152 100

115 60.8 32.6 97.8

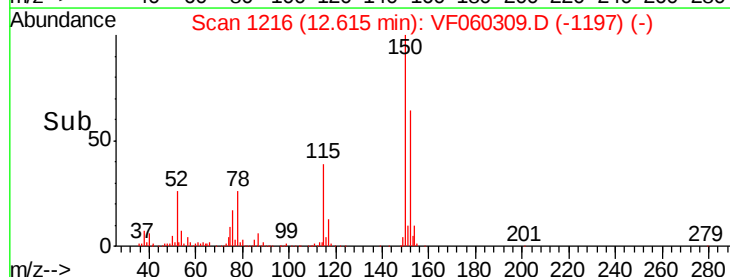
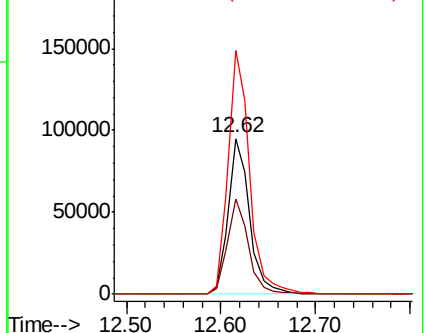
150 156.5 0.0 314.2

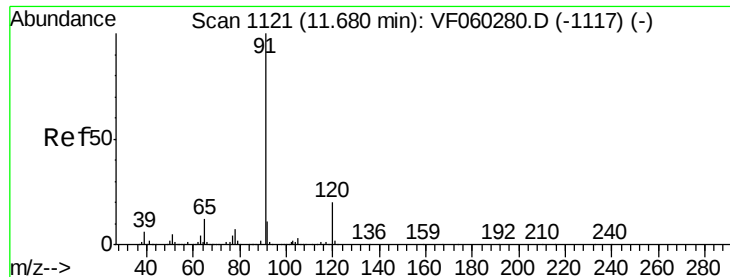


Abundance Ion 152.00 (151.70 to 152.70): V

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: 11.67 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF060309.D

Acq: 20 Sep 2018 20:43

Instrument :

MSVOA_F

ClientSampleId :

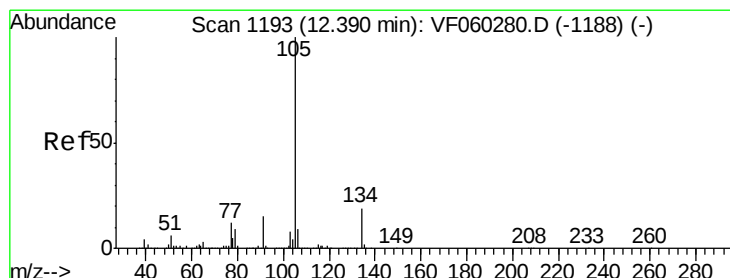
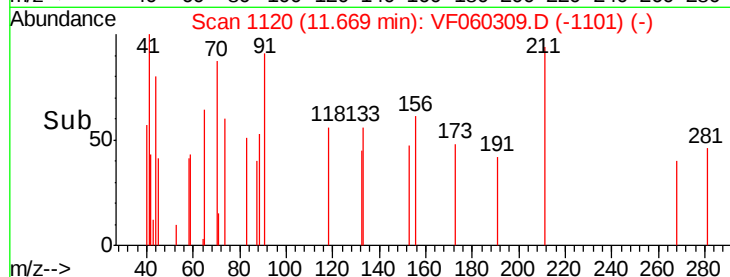
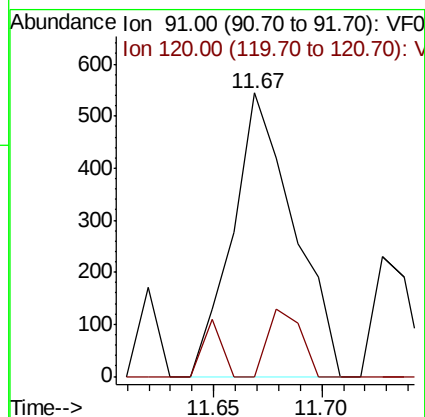
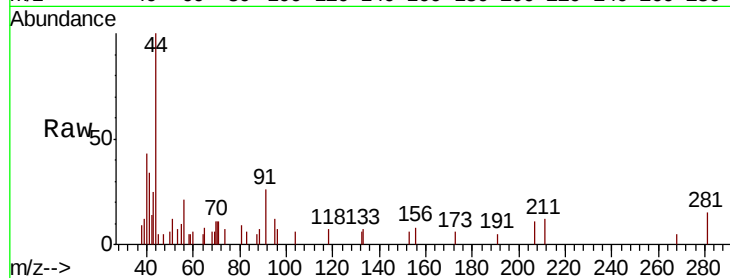
FK-PS-01-041

Tot Ion: 91 Resp: 1072

Ion Ratio Lower Upper

91 100

120 0.0 10.0 29.8#



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060309.D

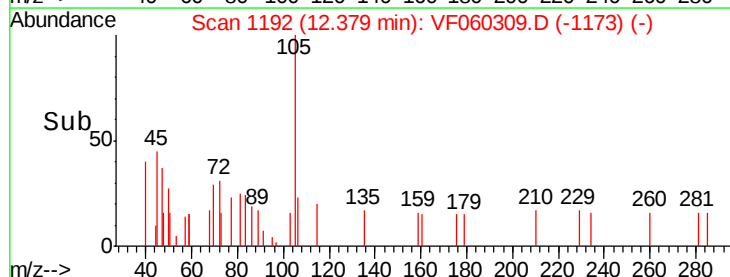
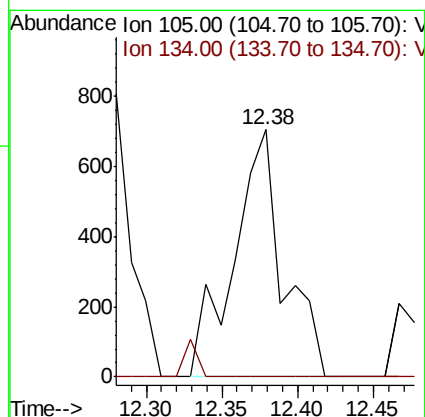
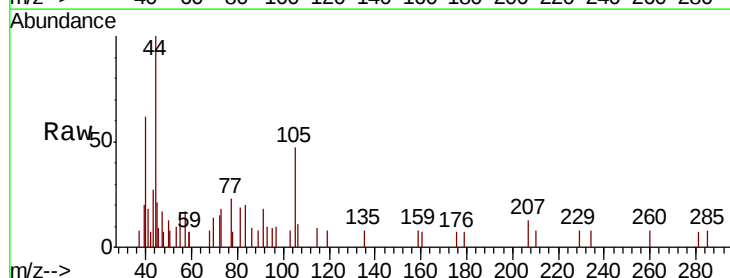
Acq: 20 Sep 2018 20:43

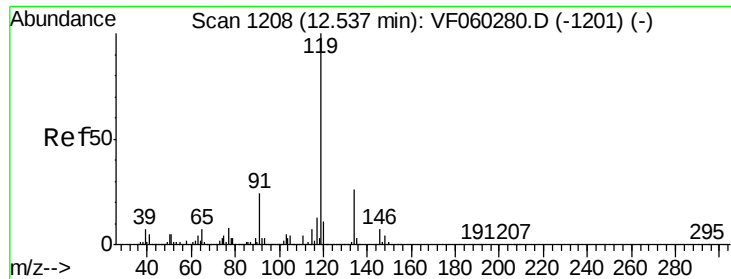
Tgt Ion: 105 Resp: 1606

Ion Ratio Lower Upper

105 100

134 0.0 9.6 28.6#

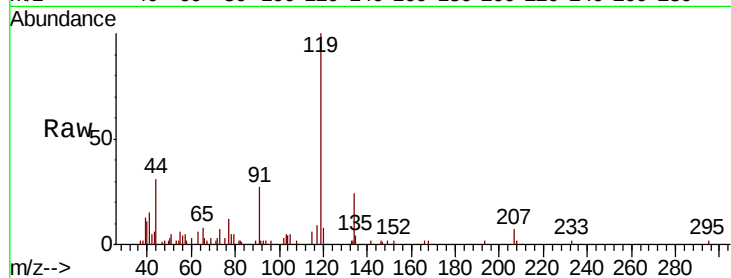




#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.53 min Scan# 1207
 Delta R.T. -0.01 min
 Lab File: VF060309.D
 Acq: 20 Sep 2018 20:43

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-PS-01-041

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.4	12.9	38.7
91	27.3	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

