

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032519\
 Data File : VF062131.D
 Acq On : 25 Mar 2019 14:57
 Operator : VA/AP
 Sample : K2078-02RE
 Misc : 3.33g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-SF-01-005-ARE

Quant Time: Mar 26 04:20:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	238122	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	392220	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.77	117	293415	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	135660	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	84490	47.70	ug/l	-0.03
Spiked Amount			Recovery	=	95.40%	
35) Dibromofluoromethane	4.11	113	9039	3.41	ug/l	-0.03
Spiked Amount			Recovery	=	6.82%	
50) Toluene-d8	7.56	98	286290	36.15	ug/l	-0.03
Spiked Amount			Recovery	=	72.30%	
62) 4-Bromofluorobenzene	11.41	95	112722	36.87	ug/l	-0.02
Spiked Amount			Recovery	=	73.74%	

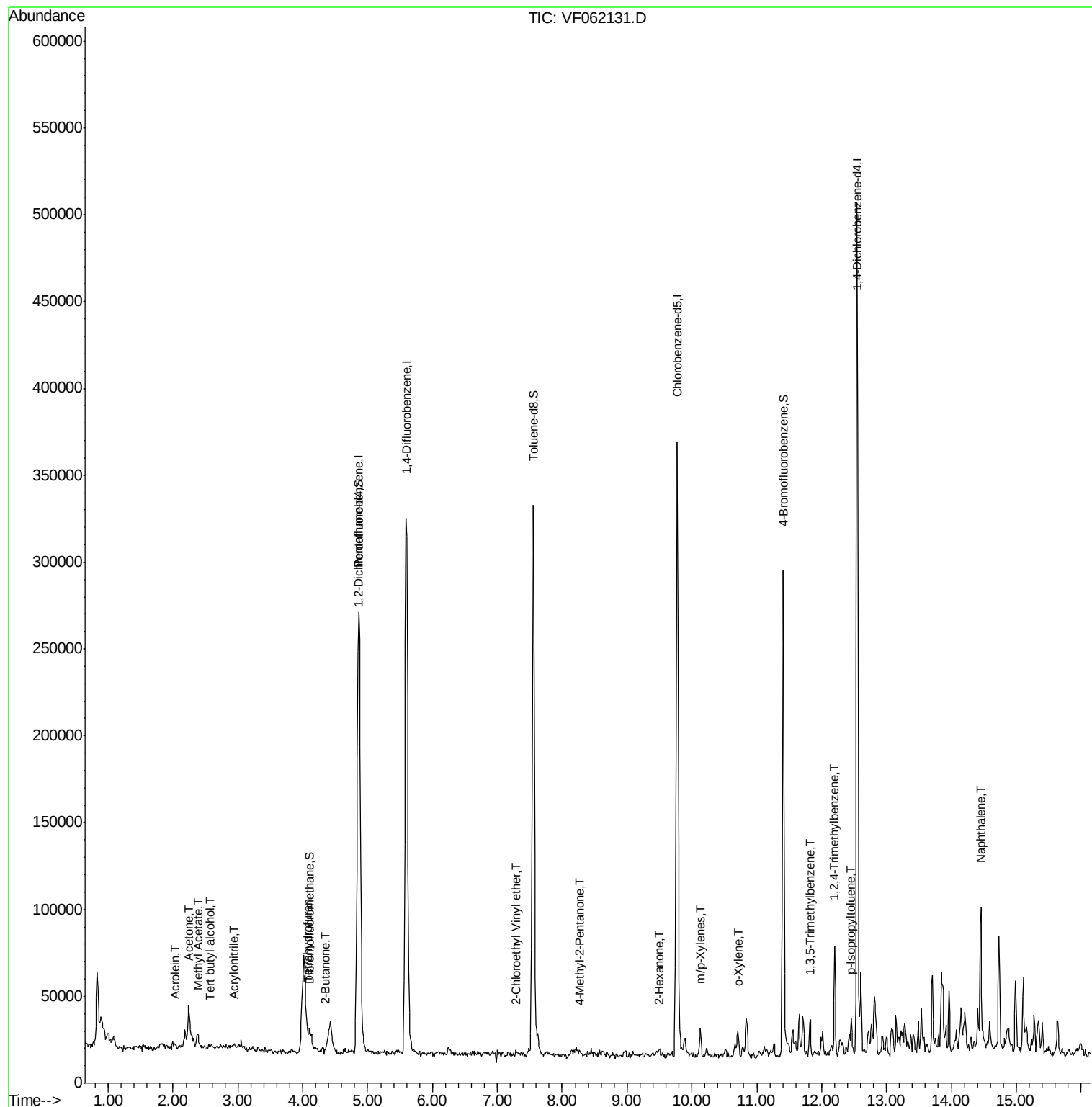
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	1008	10.343	ug/l #	66
13) Acrolein	2.02	56	938	8.004	ug/l #	77
15) Acrylonitrile	2.95	53	545	1.590	ug/l #	65
16) Acetone	2.24	43	31570	84.690	ug/l	95
18) Methyl Acetate	2.39	43	6227	7.003	ug/l #	56
20) Methylene Chloride	2.18	84	4371	Below Cal	#	90
25) 2-Butanone	4.33	43	2820	3.624	ug/l #	91
29) Tetrahydrofuran	4.08	42	1810	5.349	ug/l #	53
51) 4-Methyl-2-Pentanone	8.26	43	3683	2.783	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.30	63	415	1.392	ug/l #	48
59) 2-Hexanone	9.49	43	4405	4.542	ug/l	83
68) m/p-Xylenes	10.13	106	5436	1.523	ug/l	95
69) o-Xylene	10.71	106	4319	1.156	ug/l	77
80) 1,3,5-Trimethylbenzene	11.82	105	11769	1.499	ug/l	85
84) 1,2,4-Trimethylbenzene	12.20	105	26385	3.428	ug/l	94
86) p-Isopropyltoluene	12.46	119	12979	1.409	ug/l	88
95) Naphthalene	14.45	128	46140	9.285	ug/l	98

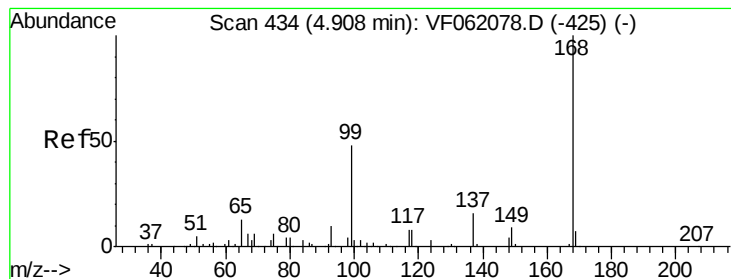
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.03 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

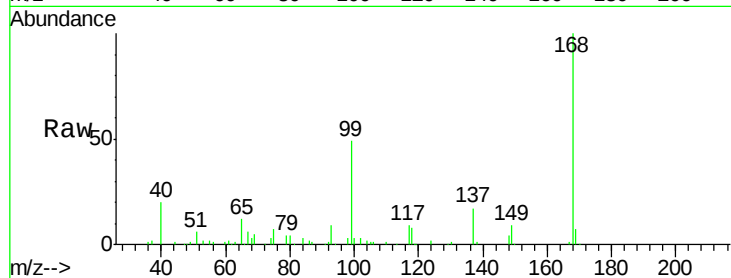
FK-SF-01-005-ARE

Tot Ion:168 Resp: 238122

Ion Ratio Lower Upper

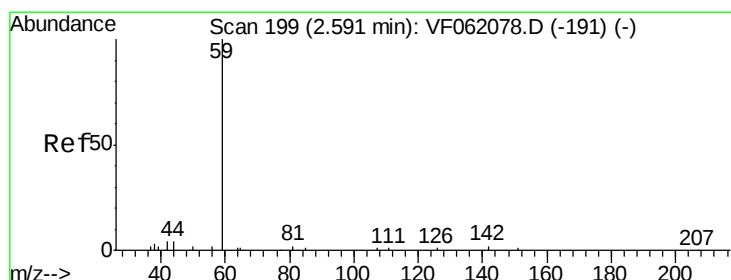
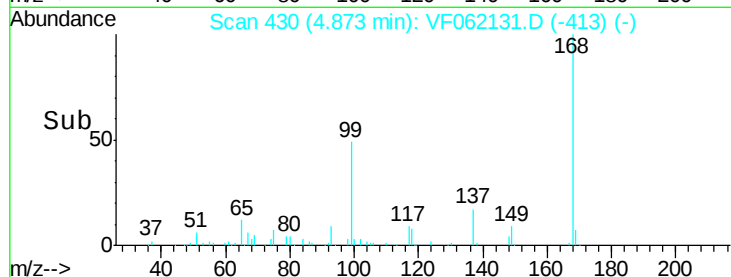
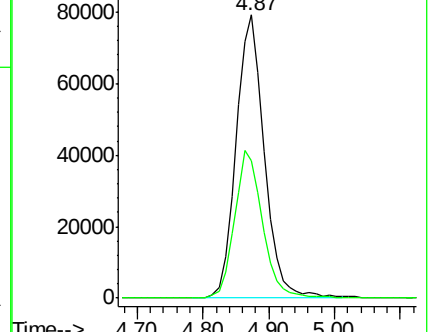
168 100

99 48.6 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 10.343 ug/l

RT: 2.58 min Scan# 197

Delta R.T. -0.02 min

Lab File: VF062131.D

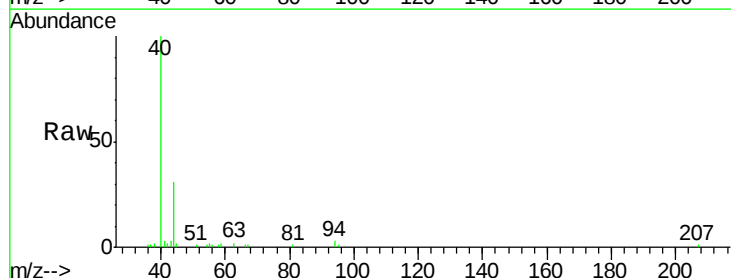
Acq: 25 Mar 2019 14:57

Tgt Ion: 59 Resp: 1008

Ion Ratio Lower Upper

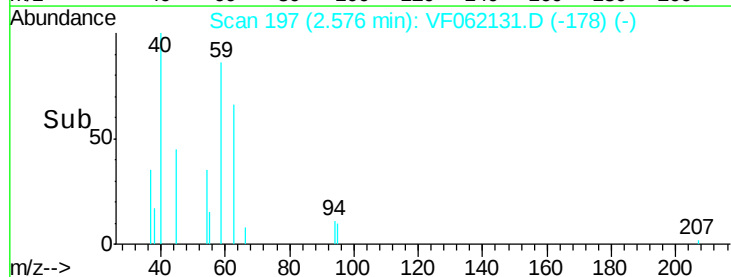
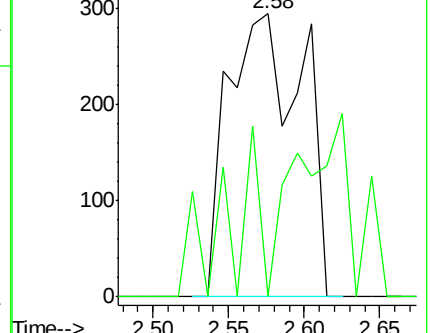
59 100

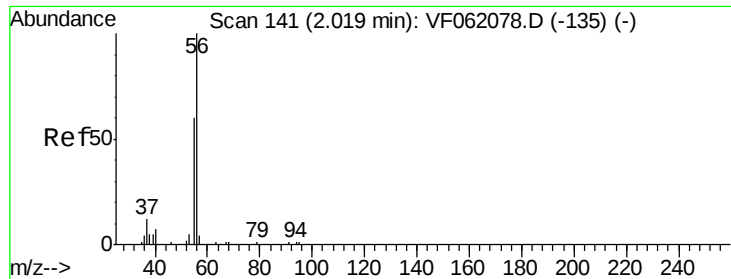
57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 8.004 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

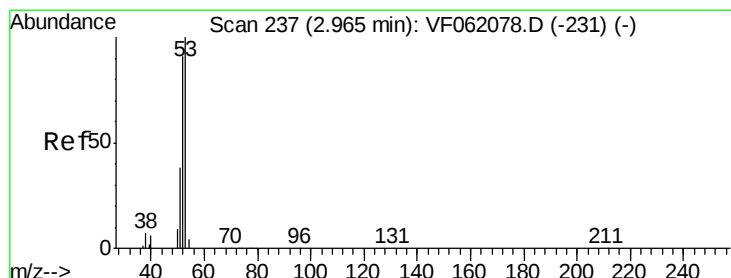
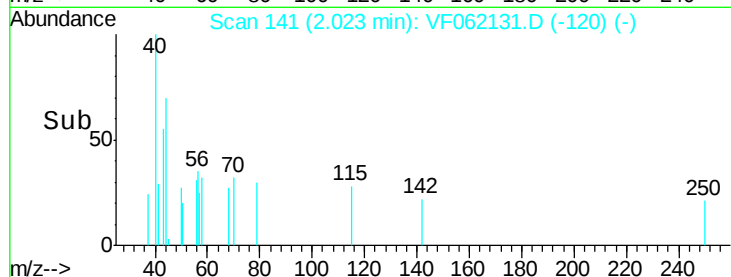
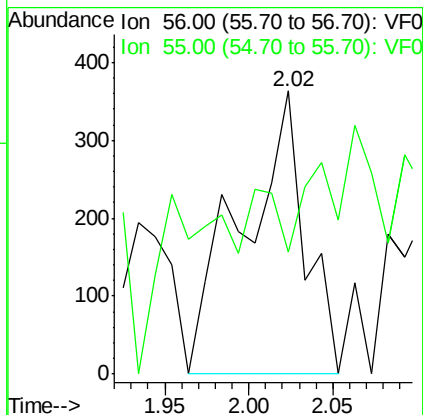
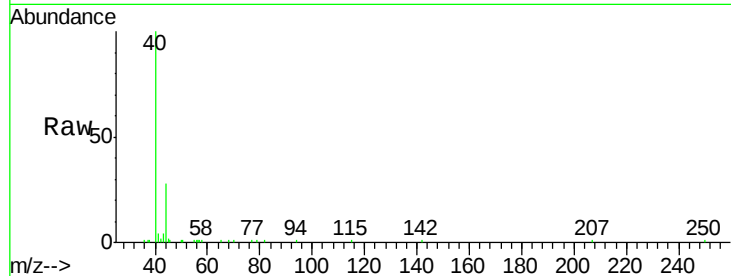
FK-SF-01-005-ARE

Tot Ion: 56 Resp: 938

Ion Ratio Lower Upper

56 100

55 43.3 49.0 73.4#



#15

Acrylonitrile

Concen: 1.590 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

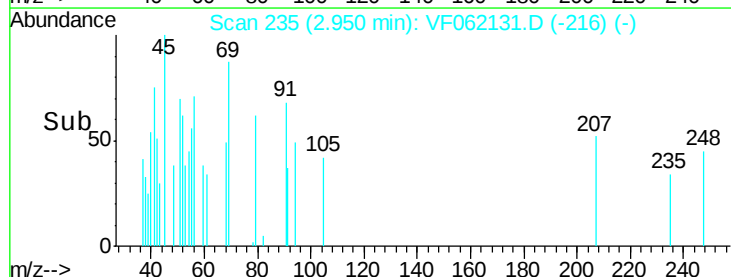
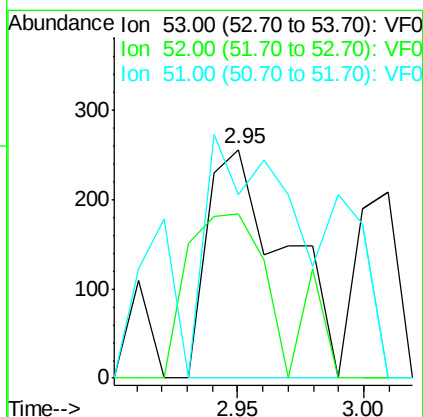
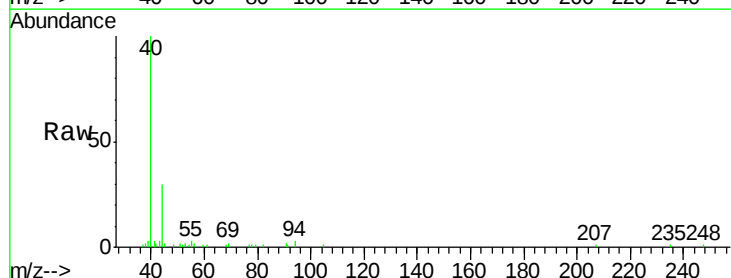
Tgt Ion: 53 Resp: 545

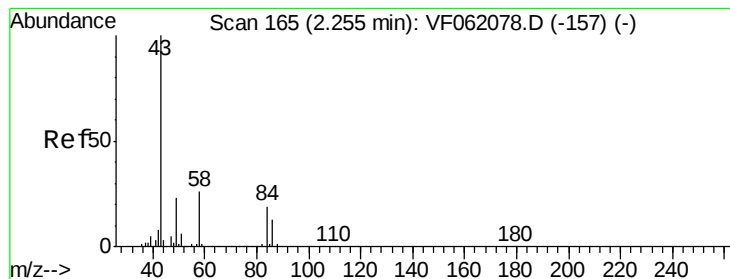
Ion Ratio Lower Upper

53 100

52 71.9 72.3 108.5#

51 80.5 30.4 45.6#





#16

Acetone

Concen: 84.690 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

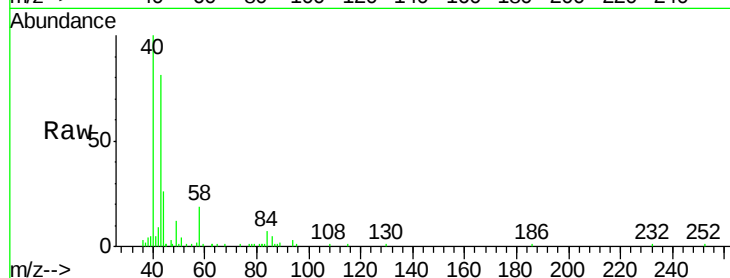
FK-SF-01-005-ARE

Tot Ion: 43 Resp: 31570

Ion Ratio Lower Upper

43 100

58 23.3 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

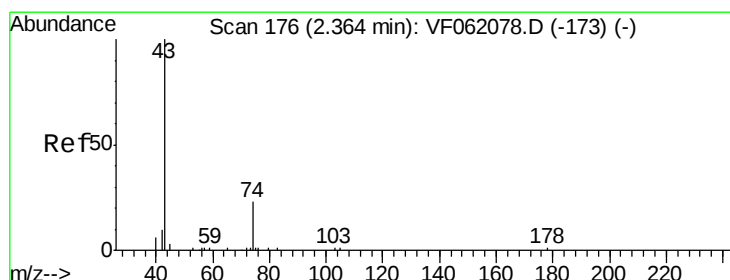
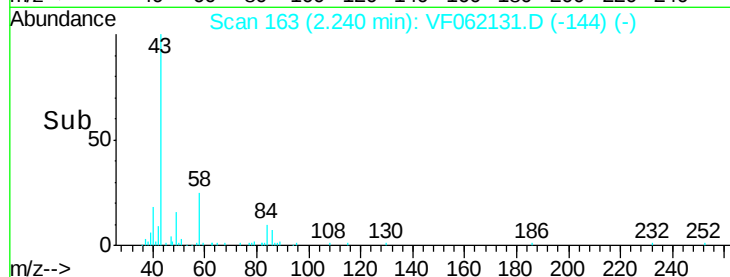
2.24

10000

5000

0

Time--> 2.10 2.20 2.30



#18

Methyl Acetate

Concen: 7.003 ug/l

RT: 2.39 min Scan# 178

Delta R.T. 0.03 min

Lab File: VF062131.D

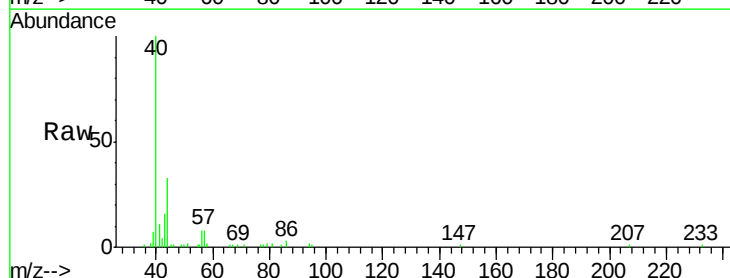
Acq: 25 Mar 2019 14:57

Tgt Ion: 43 Resp: 6227

Ion Ratio Lower Upper

43 100

74 0.0 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

4000

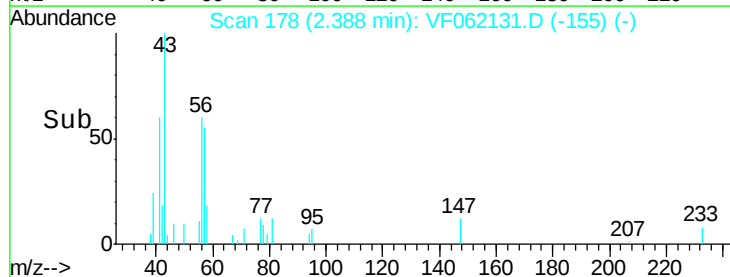
3000

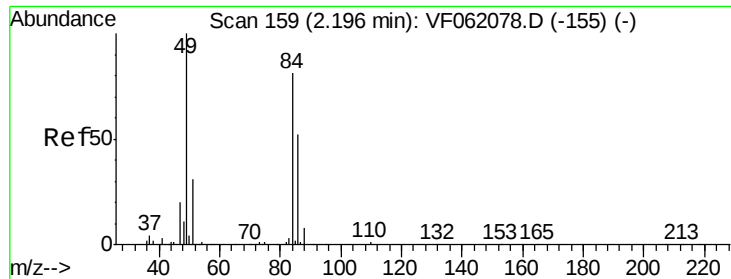
2000

1000

0

Time--> 2.30 2.35 2.40 2.45 2.50

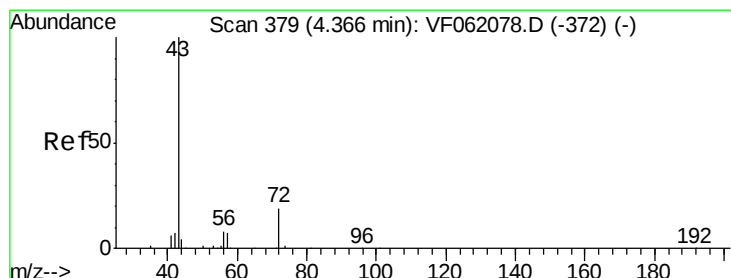
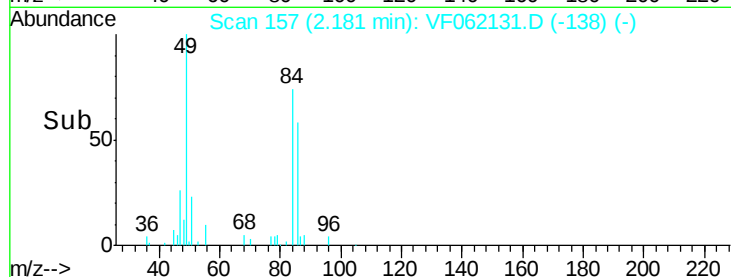
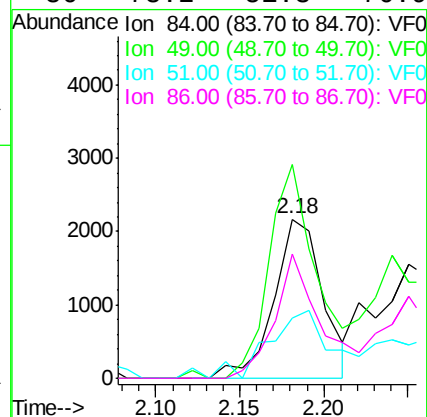
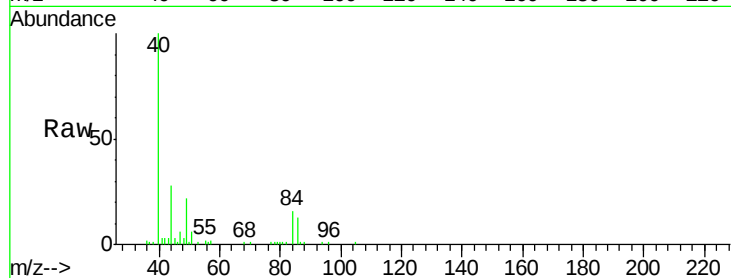




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF062131.D
Acq: 25 Mar 2019 14:57

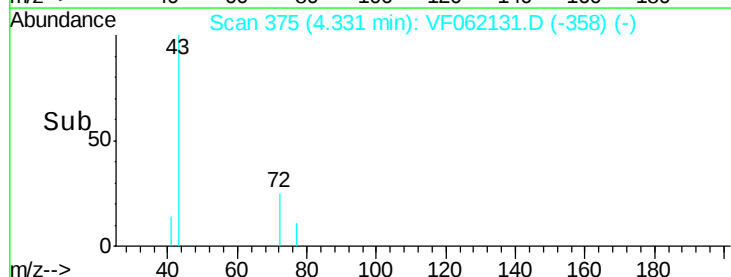
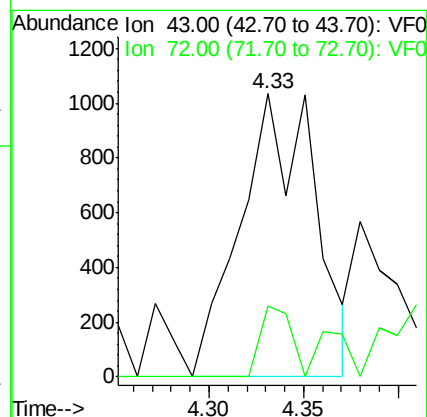
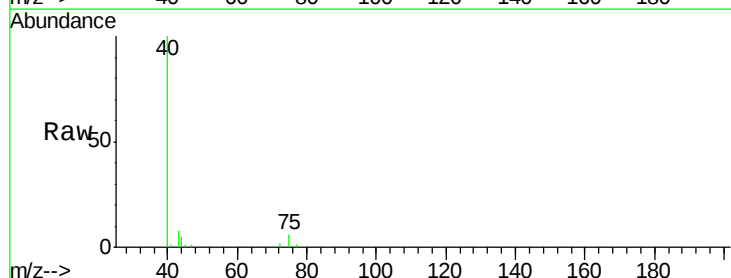
Instrument :
MSVOA_F
ClientSampleId :
FK-SF-01-005-ARE

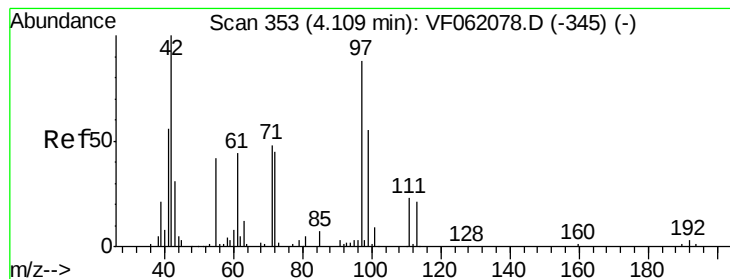
Tot Ion: 84 Resp: 4371
Ion Ratio Lower Upper
84 100
49 134.4 100.4 150.6
51 37.6 31.0 46.6
86 78.2 51.3 76.9#



#25
2-Butanone
Concen: 3.624 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.03 min
Lab File: VF062131.D
Acq: 25 Mar 2019 14:57

Tgt Ion: 43 Resp: 2820
Ion Ratio Lower Upper
43 100
72 25.2 16.7 25.1#





#29

Tetrahydrofuran

Concen: 5.349 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.02 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

FK-SF-01-005-ARE

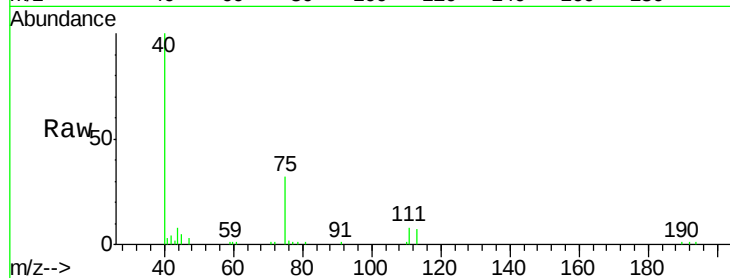
Tot Ion: 42 Resp: 1810

Ion Ratio Lower Upper

42 100

72 0.0 33.3 49.9#

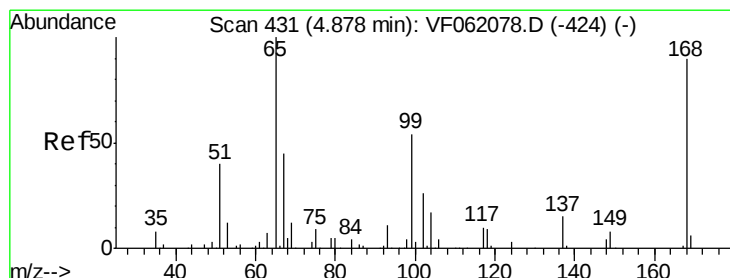
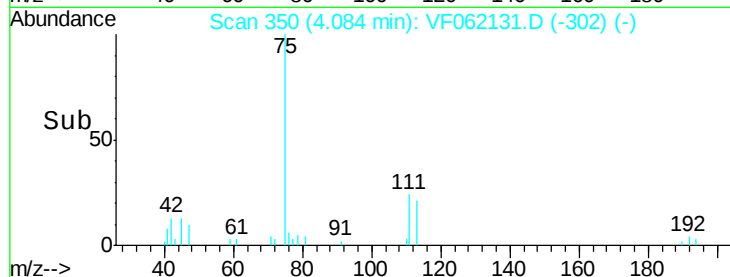
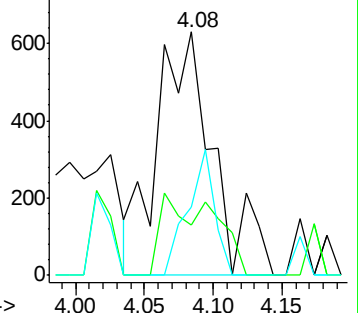
71 24.7 35.0 52.4#



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: 47.703 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.03 min

Lab File: VF062131.D

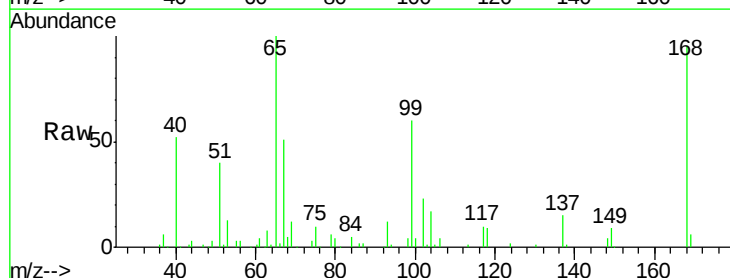
Acq: 25 Mar 2019 14:57

Tgt Ion: 65 Resp: 84490

Ion Ratio Lower Upper

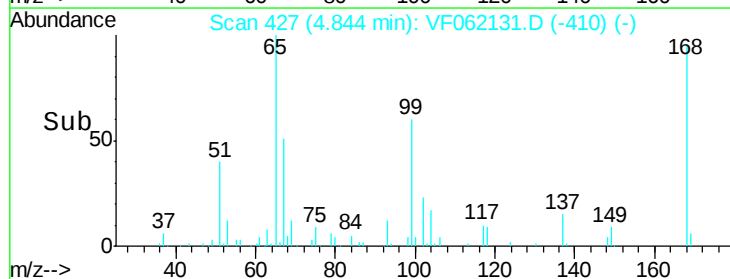
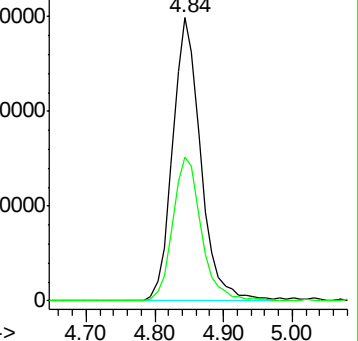
65 100

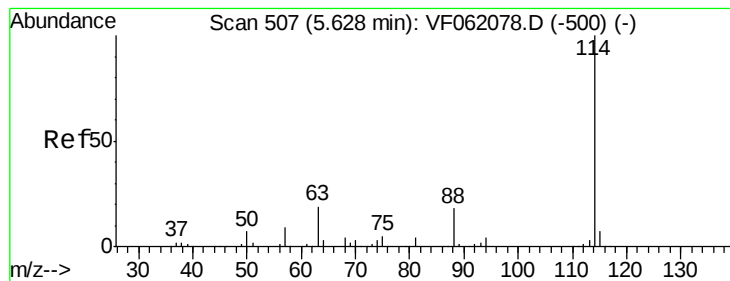
67 50.8 0.0 106.2



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: 5.59 min Scan# 503

Delta R.T. -0.03 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

Instrument :

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FK-SF-01-005-ARE

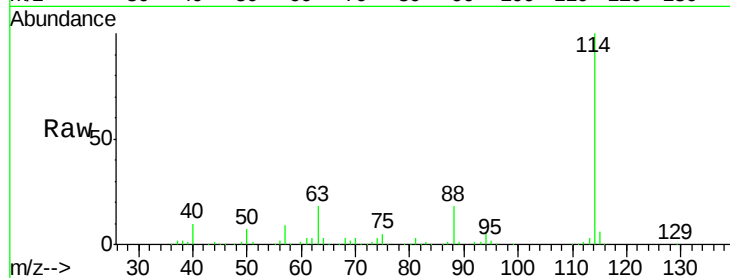
Tot Ion:114 Resp: 392220

Ion Ratio Lower Upper

114 100

63 18.0 0.0 37.8

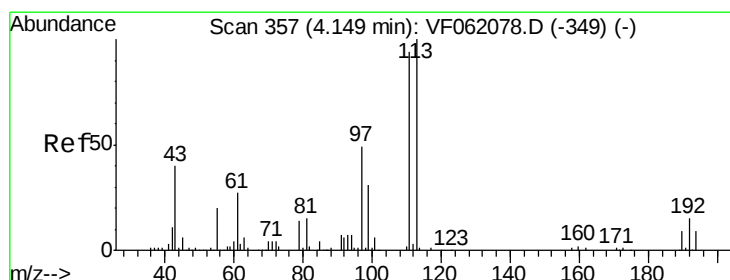
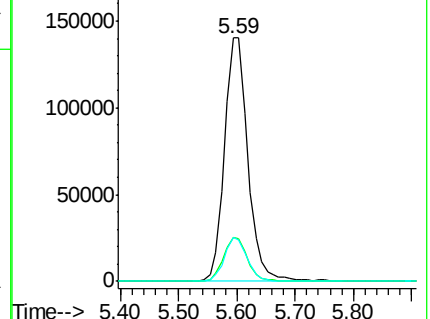
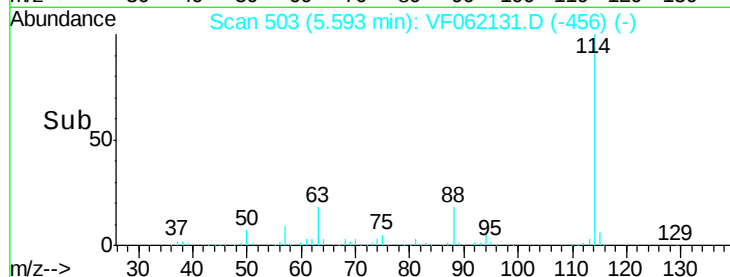
88 18.0 0.0 36.4



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: 3.407 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.03 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

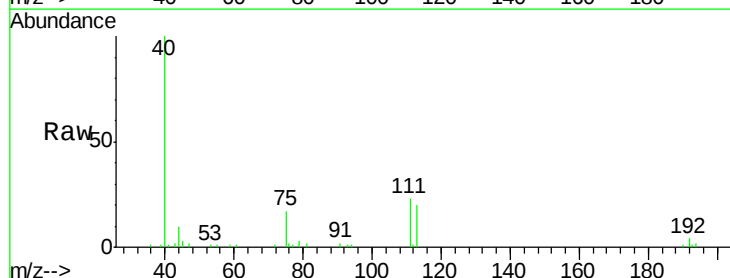
Tgt Ion:113 Resp: 9039

Ion Ratio Lower Upper

113 100

111 119.5 75.4 113.0#

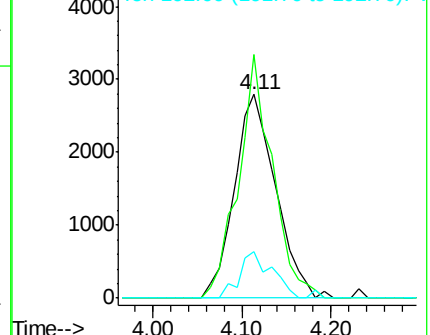
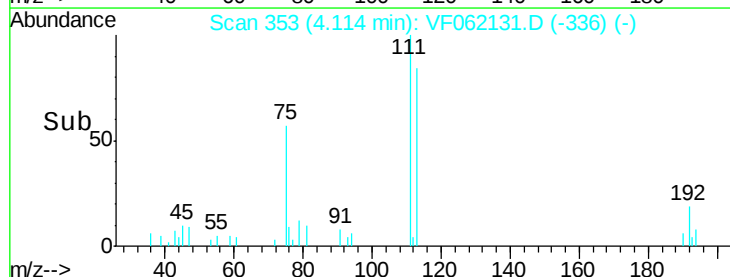
192 27.6 12.3 18.5#

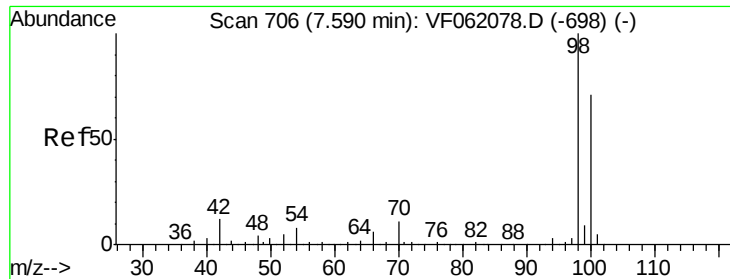


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 36.148 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.03 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

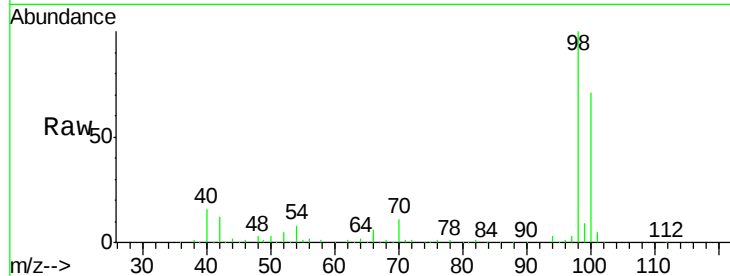
FK-SF-01-005-ARE

Tot Ion: 98 Resp: 286290

Ion Ratio Lower Upper

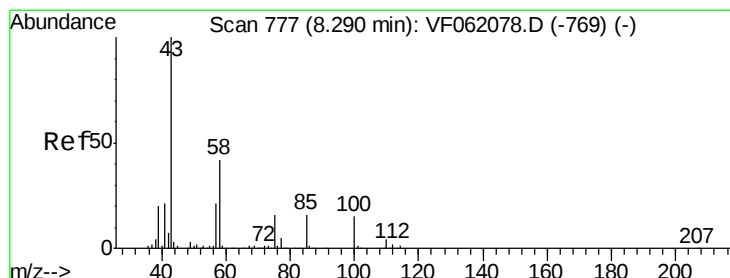
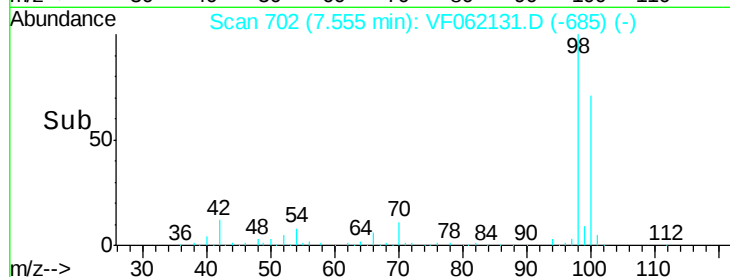
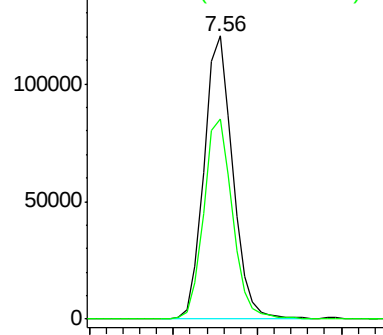
98 100

100 70.9 57.0 85.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 2.783 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.03 min

Lab File: VF062131.D

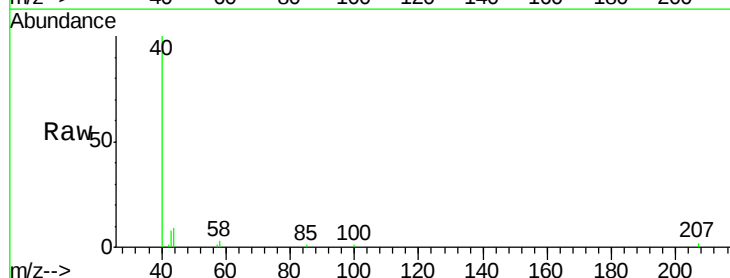
Acq: 25 Mar 2019 14:57

Tgt Ion: 43 Resp: 3683

Ion Ratio Lower Upper

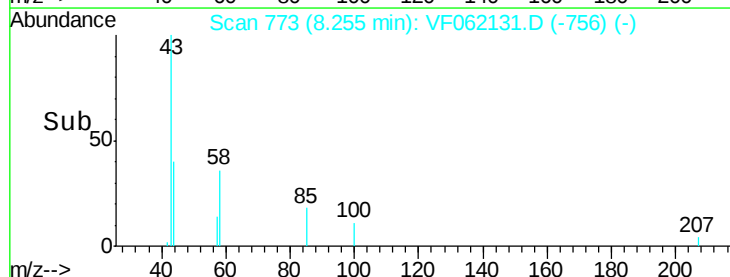
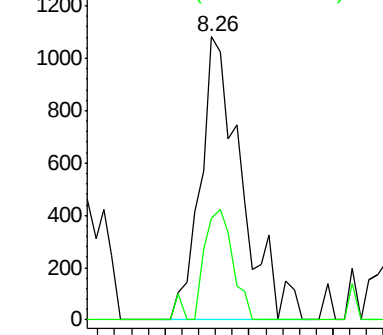
43 100

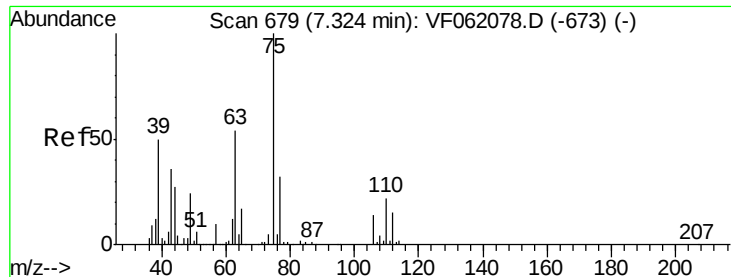
58 35.8 33.8 50.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 1.392 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.02 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

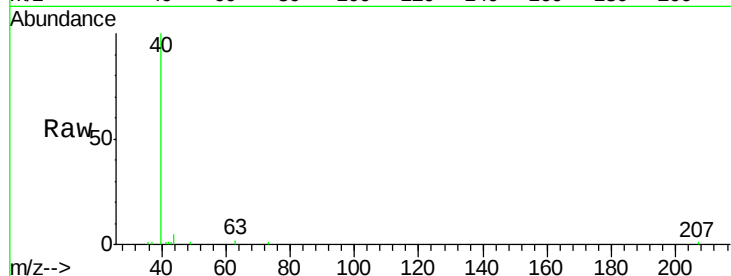
FK-SF-01-005-ARE

Tot Ion: 63 Resp: 415

Ion Ratio Lower Upper

63 100

106 0.0 21.5 32.3#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.30

250

200

150

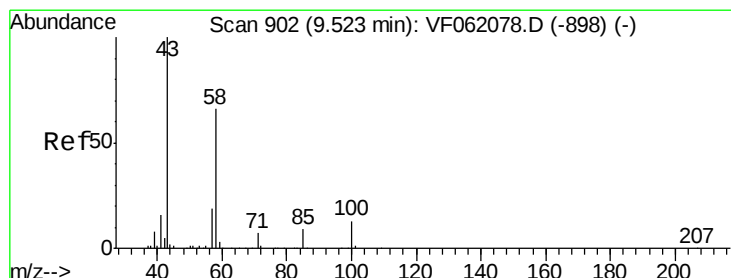
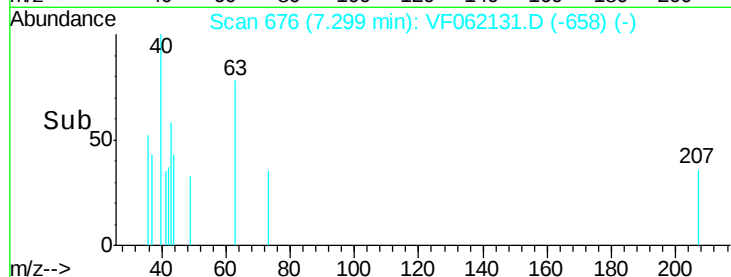
100

50

0

7.25 7.30 7.35

Time-->



#59

2-Hexanone

Concen: 4.542 ug/l

RT: 9.49 min Scan# 898

Delta R.T. -0.03 min

Lab File: VF062131.D

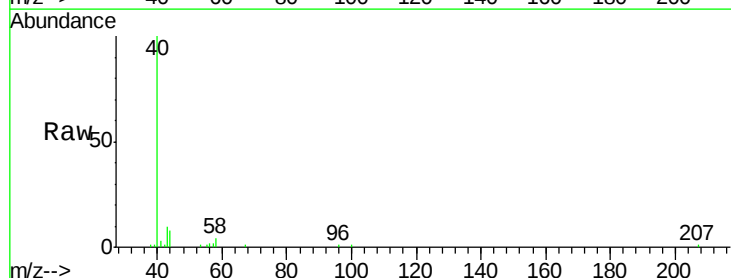
Acq: 25 Mar 2019 14:57

Tgt Ion: 43 Resp: 4405

Ion Ratio Lower Upper

43 100

58 45.0 28.8 86.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1500

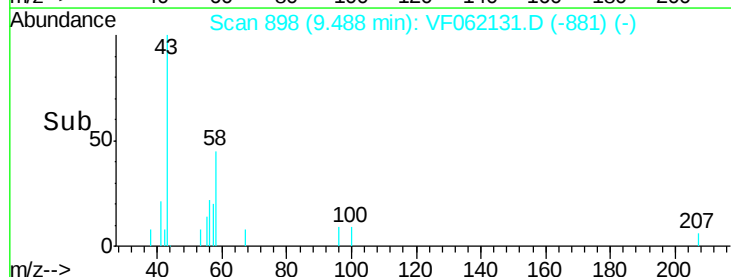
1000

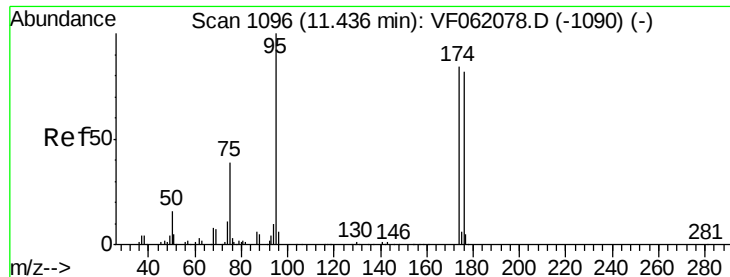
500

0

9.30 9.40 9.50 9.60

Time-->





#62

4-Bromofluorobenzene

Concen: 36.867 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.02 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

FK-SF-01-005-ARE

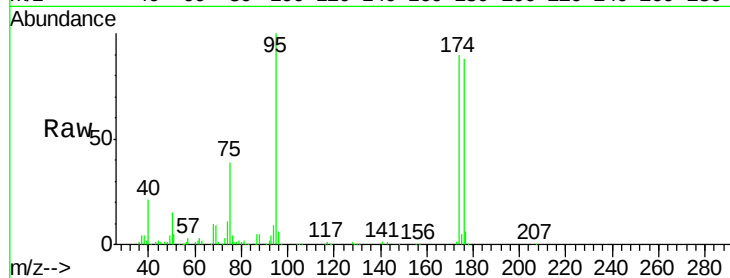
Tot Ion: 95 Resp: 112722

Ion Ratio Lower Upper

95 100

174 90.5 0.0 168.2

176 88.1 0.0 164.2



Abundance Ion 95.00 (94.70 to 95.70): VF062078.D (-1090) (-)

Ion 174.00 (173.70 to 174.70): VF062078.D (-1090) (-)

Ion 176.00 (175.70 to 176.70): VF062078.D (-1090) (-)

Time-->

11.41

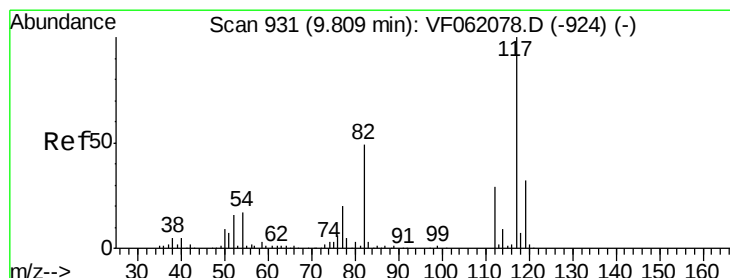
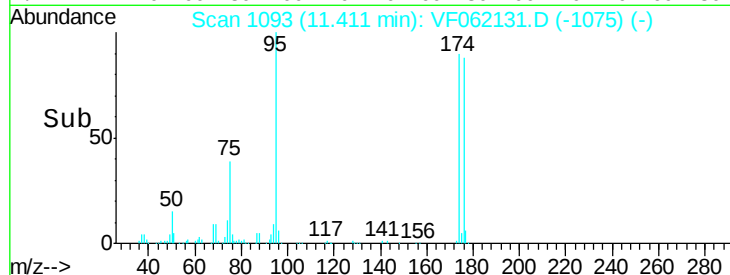
60000

40000

20000

0

11.30 11.40 11.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.03 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

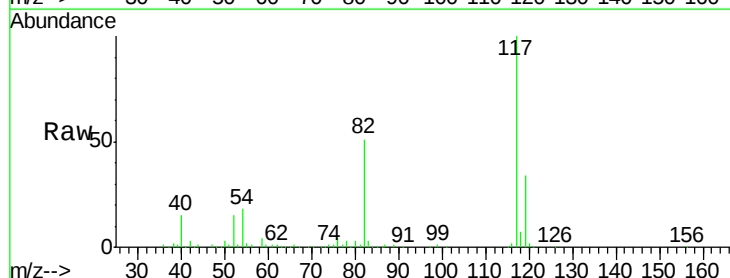
Tgt Ion: 117 Resp: 293415

Ion Ratio Lower Upper

117 100

82 51.5 39.2 58.8

119 33.8 25.4 38.2



Abundance Ion 117.00 (116.70 to 117.70): VF062078.D (-924) (-)

Ion 82.00 (81.70 to 82.70): VF062078.D (-924) (-)

Ion 119.00 (118.70 to 119.70): VF062078.D (-924) (-)

Time-->

9.77

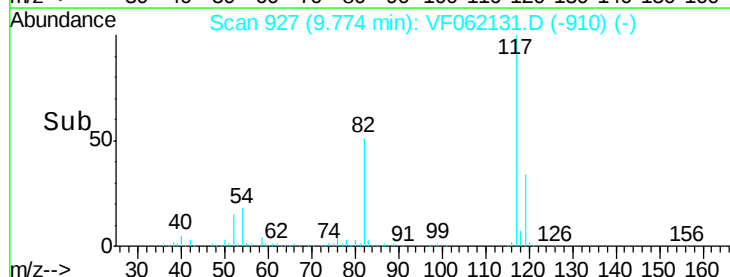
150000

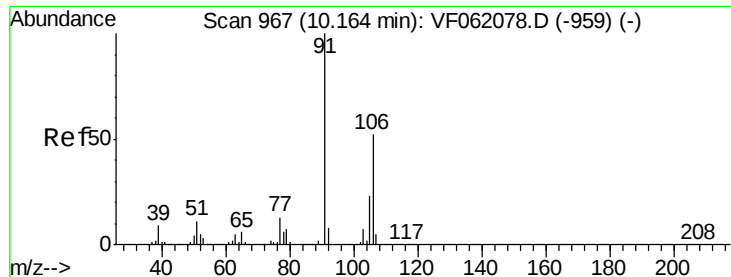
100000

50000

0

9.70 9.80 9.90





#68

m/p-Xylenes

Concen: 1.523 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.03 min

Lab File: VF062131.D

Acq: 25 Mar 2019 14:57

Instrument :

MSVOA_F

ClientSampleId :

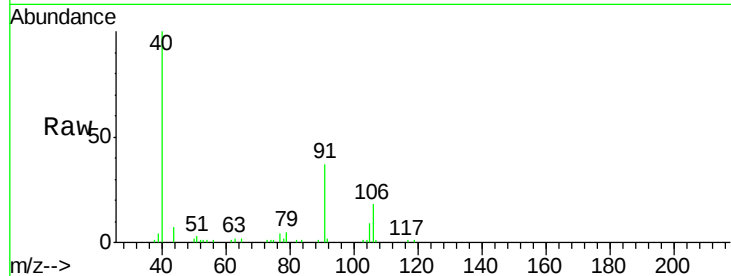
FK-SF-01-005-ARE

Tot Ion:106 Resp: 5436

Ion Ratio Lower Upper

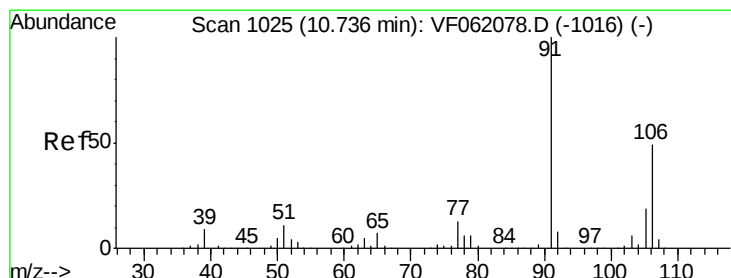
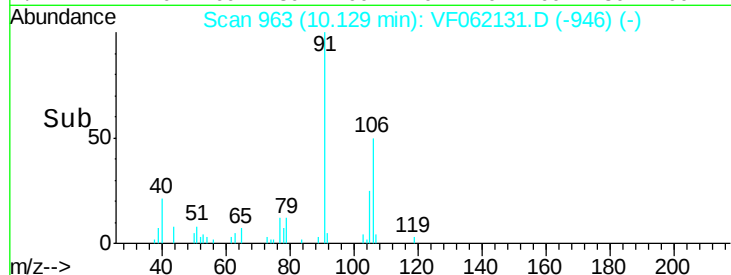
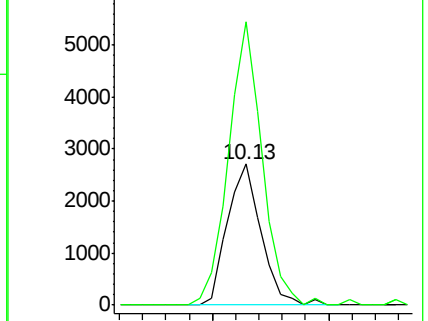
106 100

91 201.0 154.4 231.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 1.156 ug/l

RT: 10.71 min Scan# 1022

Delta R.T. -0.02 min

Lab File: VF062131.D

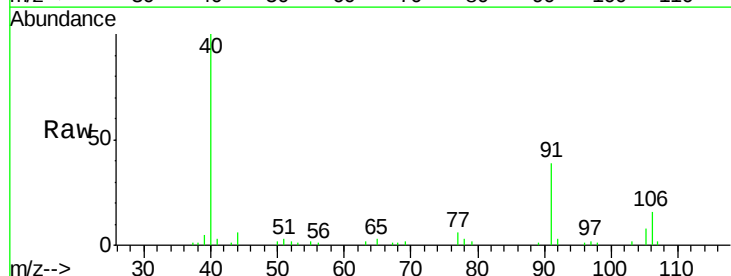
Acq: 25 Mar 2019 14:57

Tgt Ion:106 Resp: 4319

Ion Ratio Lower Upper

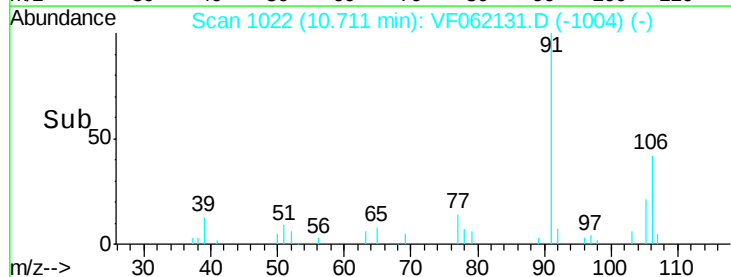
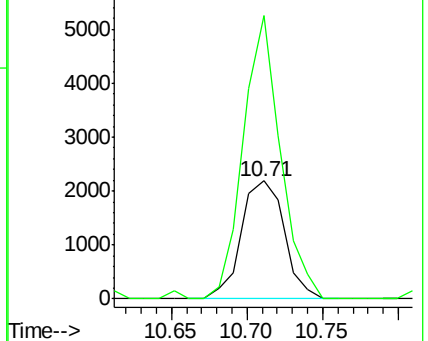
106 100

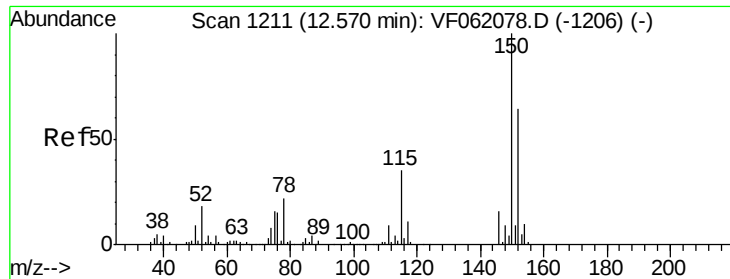
91 240.2 102.6 307.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



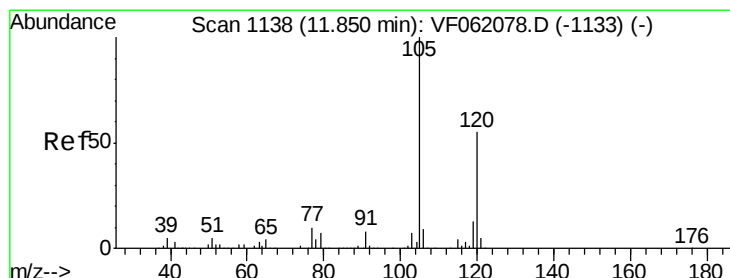
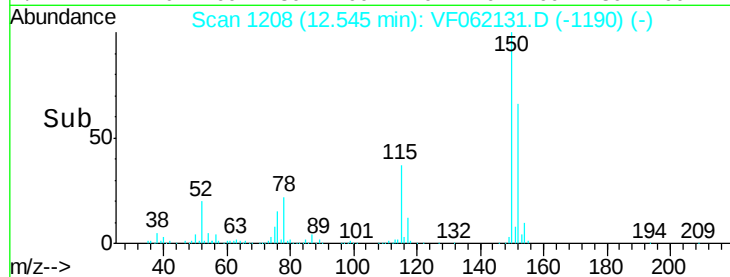
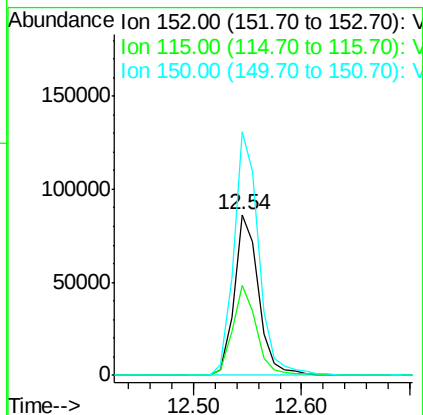
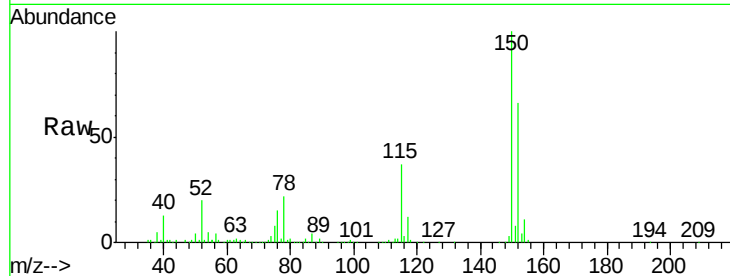


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF062131.D
Acq: 25 Mar 2019 14:57

Instrument :
MSVOA_F
ClientSampleId :
FK-SF-01-005-ARE

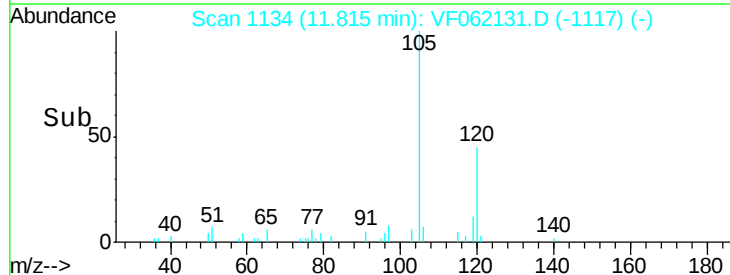
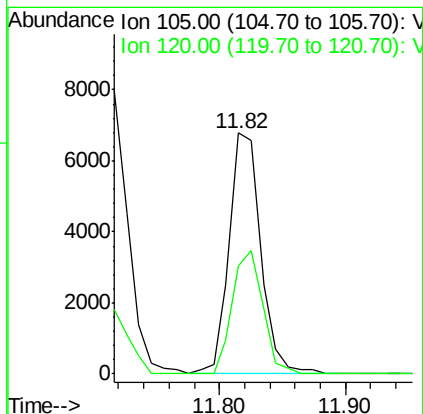
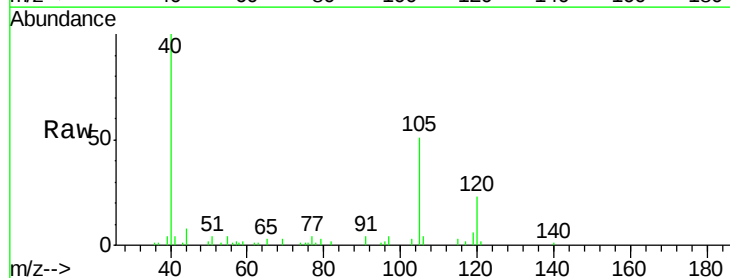
Tot Ion:152 Resp: 135660
Ion Ratio Lower Upper
152 100
115 55.9 27.7 83.1
150 151.5 0.0 313.2

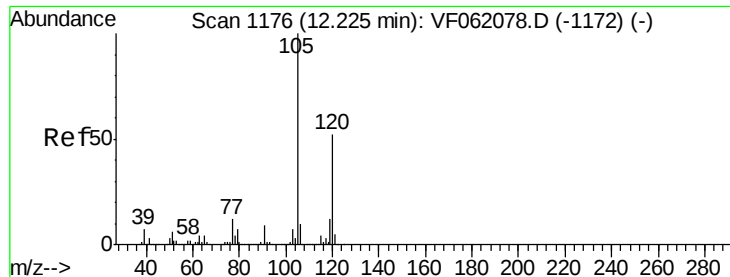


#80

1,3,5-Trimethylbenzene
Concen: 1.499 ug/l
RT: 11.82 min Scan# 1134
Delta R.T. -0.03 min
Lab File: VF062131.D
Acq: 25 Mar 2019 14:57

Tgt Ion:105 Resp: 11769
Ion Ratio Lower Upper
105 100
120 44.8 27.8 83.3

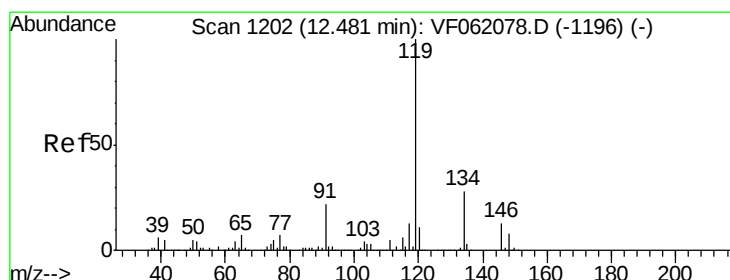
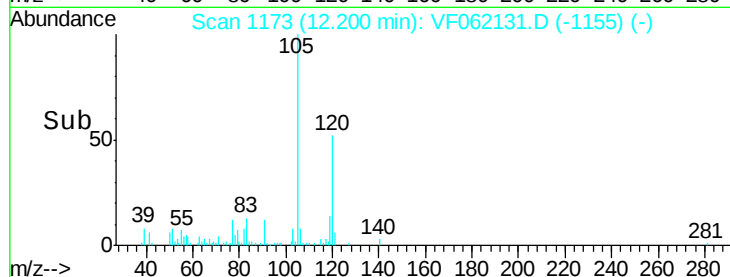
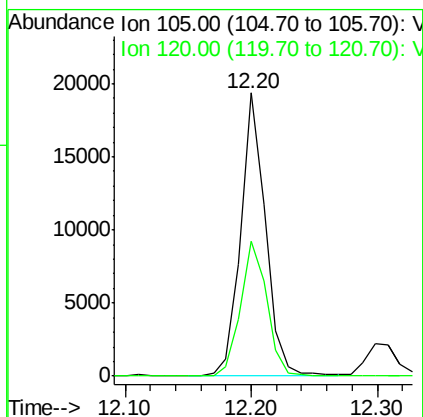
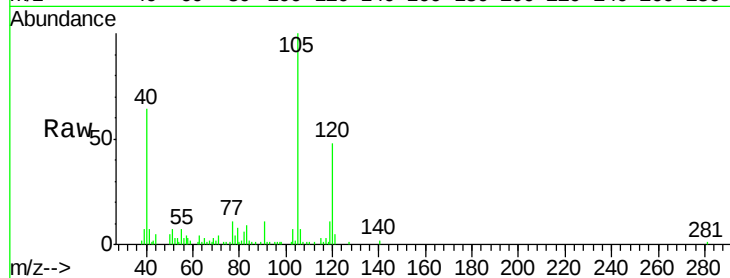




#84
 1,2,4-Trimethylbenzene
 Concen: 3.428 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.02 min
 Lab File: VF062131.D
 Acq: 25 Mar 2019 14:57

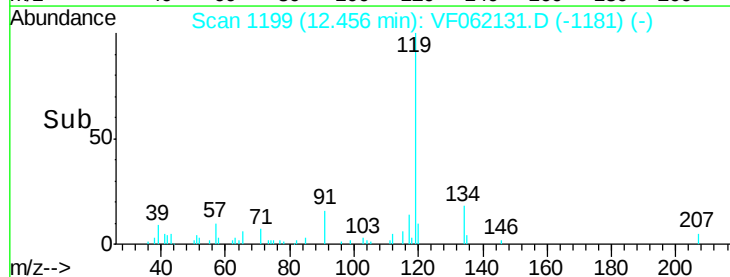
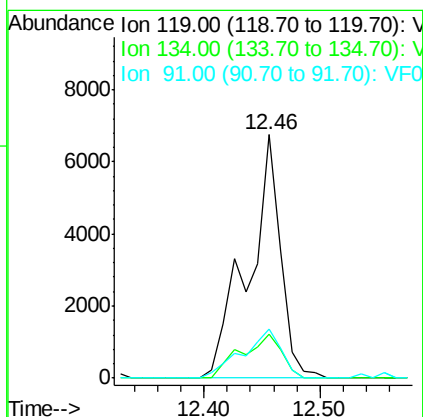
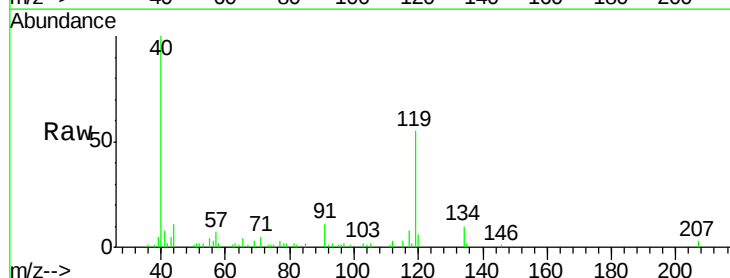
Instrument :
 MSVOA_F
 ClientSampleId :
 FK-SF-01-005-ARE

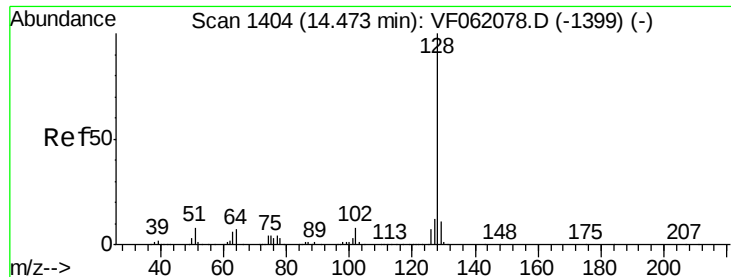
Tot Ion:105 Resp: 26385
 Ion Ratio Lower Upper
 105 100
 120 47.5 26.1 78.2



#86
 p-Isopropyltoluene
 Concen: 1.409 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: VF062131.D
 Acq: 25 Mar 2019 14:57

Tgt Ion:119 Resp: 12979
 Ion Ratio Lower Upper
 119 100
 134 18.0 14.0 42.0
 91 20.0 10.8 32.4

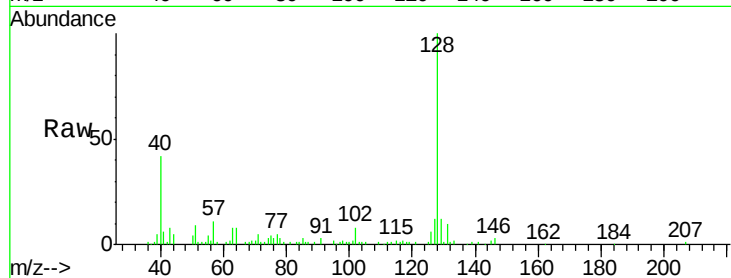




#95
 Naphthalene
 Concen: 9.285 ug/l
 RT: 14.45 min Scan# 1401
 Delta R.T. -0.02 min
 Lab File: VF062131.D
 Acq: 25 Mar 2019 14:57

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-SF-01-005-ARE

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.5	14.3
129	12.2	8.7	13.1



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

