

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052819\
 Data File : VF062757.D
 Acq On : 28 May 2019 13:32
 Operator : FY/SY
 Sample : K3052-02RE
 Misc : 4.85g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-SF-03-007-ARE

Quant Time: May 29 01:45:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	772592	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.80	114	1292415	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.93	117	836160	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	226613	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	244858	44.85	ug/l	0.01
Spiked Amount			Recovery	=	89.70%	
35) Dibromofluoromethane	4.33	113	225189	22.77	ug/l	0.01
Spiked Amount			Recovery	=	45.54%	
50) Toluene-d8	7.73	98	867807	36.75	ug/l	0.01
Spiked Amount			Recovery	=	73.50%	
62) 4-Bromofluorobenzene	11.50	95	250255	27.94	ug/l	0.00
Spiked Amount			Recovery	=	55.88%	

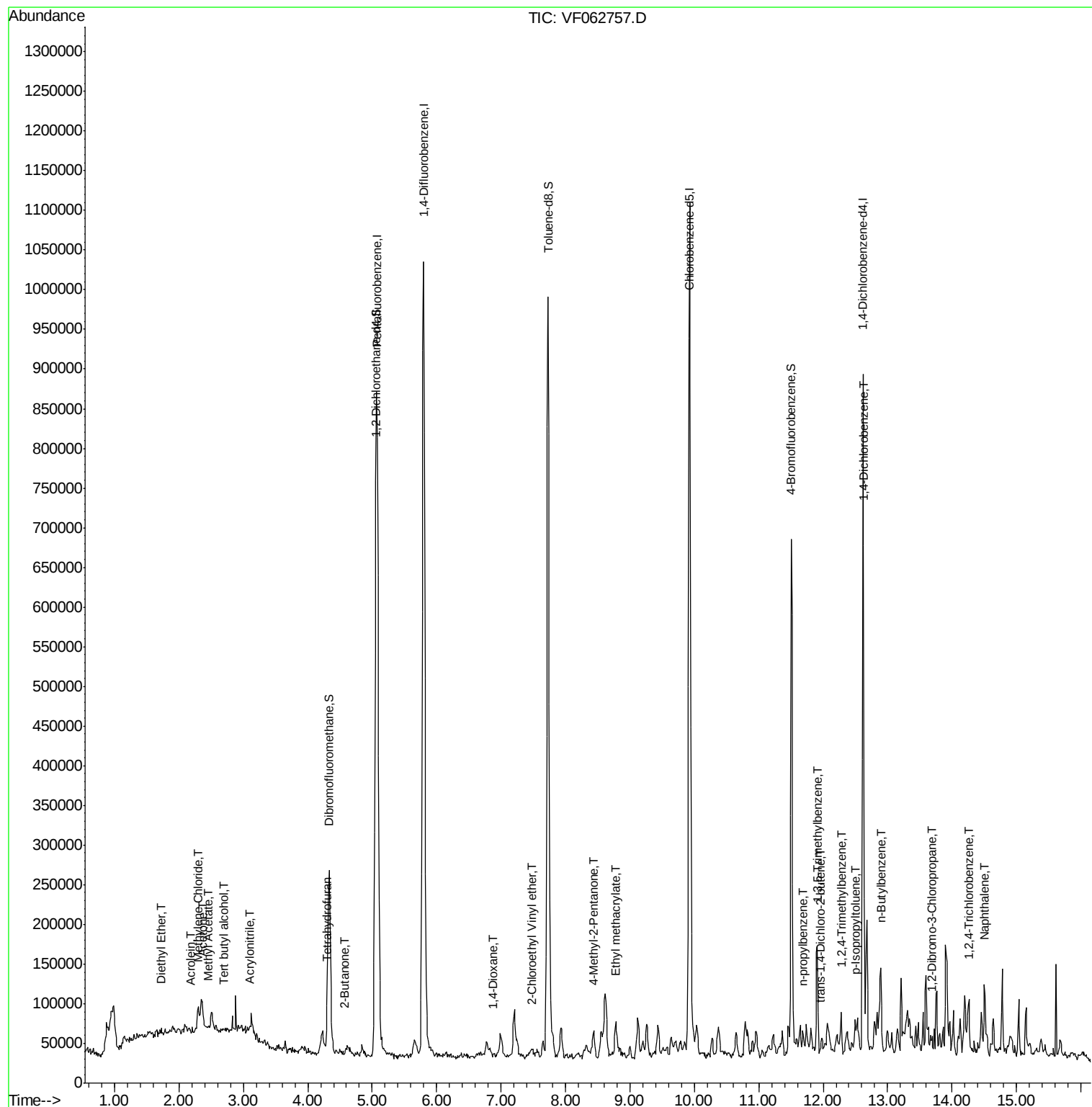
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.72	74	2417	1.020	ug/l	94
11) Tert butyl alcohol	2.69	59	1496	4.150	ug/l #	11
13) Acrolein	2.18	56	631	1.677	ug/l	94
15) Acrylonitrile	3.09	53	1034	1.017	ug/l #	46
16) Acetone	2.37	43	41999	29.652	ug/l #	84
18) Methyl Acetate	2.46	43	2234	1.004	ug/l #	77
20) Methylene Chloride	2.30	84	22562	3.178	ug/l #	85
25) 2-Butanone	4.57	43	4784	1.581	ug/l #	89
29) Tetrahydrofuran	4.29	42	3449	2.817	ug/l #	87
49) 1,4-Dioxane	6.88	88	166	3.540	ug/l #	1
51) 4-Methyl-2-Pentanone	8.43	43	35290	7.370	ug/l #	67
56) Ethyl methacrylate	8.78	69	28381	4.252	ug/l #	76
58) 2-Chloroethyl Vinyl ether	7.47	63	3556	1.637	ug/l	94
59) 2-Hexanone	9.64	43	23728	Below Cal		79
78) n-propylbenzene	11.68	91	20367	1.060	ug/l	86
80) 1,3,5-Trimethylbenzene	11.91	105	75763	5.817	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.95	75	1048	1.081	ug/l #	80
84) 1,2,4-Trimethylbenzene	12.28	105	13967	1.108	ug/l	89
86) p-Isopropyltoluene	12.50	119	18142	1.214	ug/l	96
88) 1,4-Dichlorobenzene	12.64	146	7064	1.031	ug/l	83
89) n-Butylbenzene	12.90	91	20323	1.379	ug/l #	60
92) 1,2-Dibromo-3-Chloropropan	13.69	75	613	1.548	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.24	180	5040	1.081	ug/l	71
95) Naphthalene	14.50	128	37902	4.477	ug/l #	88

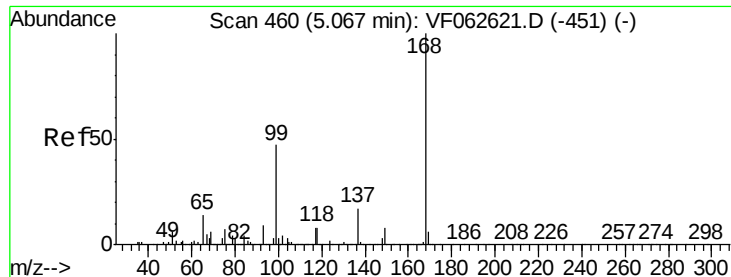
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052819\
Data File : VF062757.D
Acq On : 28 May 2019 13:32
Operator : FY/SY
Sample : K3052-02RE
Misc : 4.85g/5mL/MSVOA F/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
FK-SF-03-007-ARE

Quant Time: May 29 01:45:34 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.01 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

Instrument :

MSVOA_F

ClientSampleId :

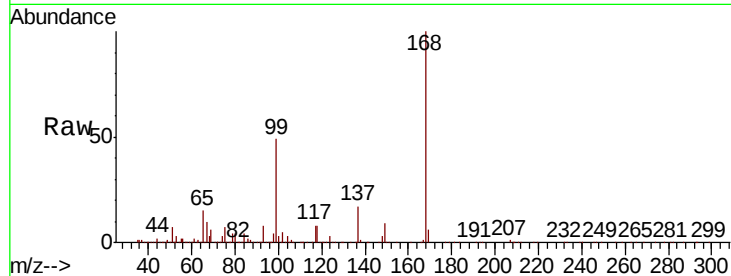
FK-SF-03-007-ARE

Tot Ion:168 Resp: 772592

Ion Ratio Lower Upper

168 100

99 48.5 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.08

250000

200000

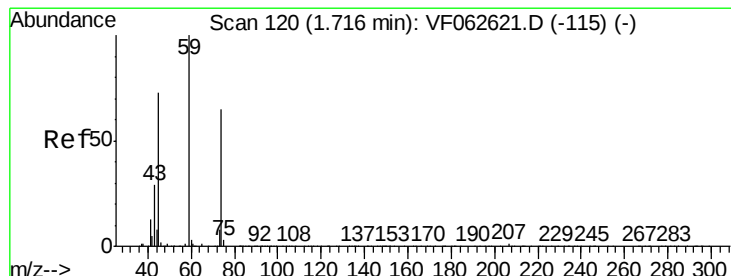
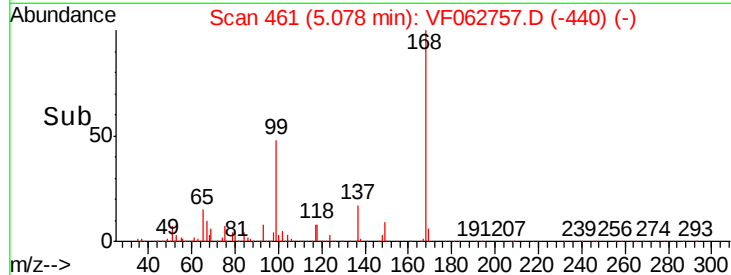
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.020 ug/l

RT: 1.72 min Scan# 120

Delta R.T. 0.00 min

Lab File: VF062757.D

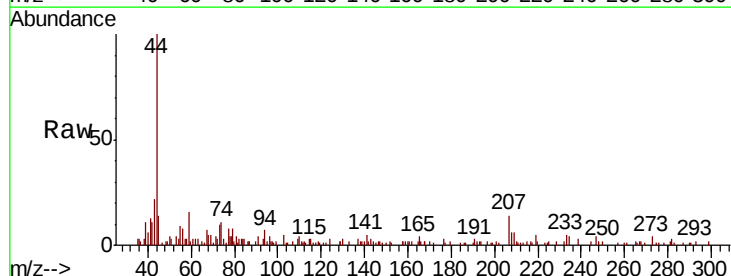
Acq: 28 May 2019 13:32

Tgt Ion: 74 Resp: 2417

Ion Ratio Lower Upper

74 100

45 120.5 57.0 170.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

2500

2000

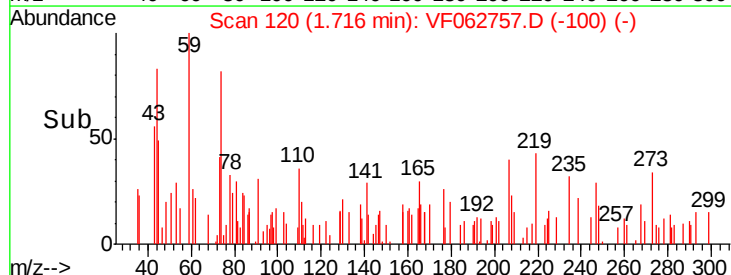
1500

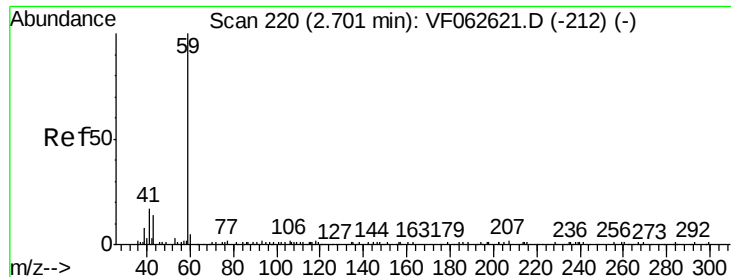
1000

500

0

Time-->

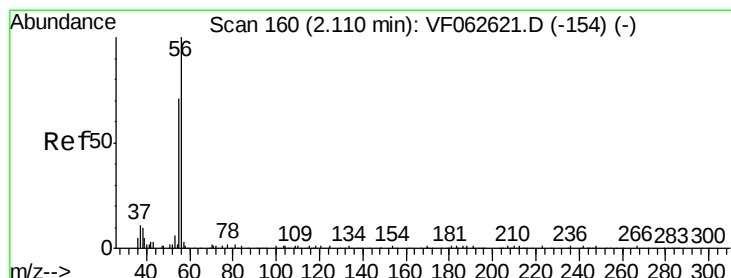
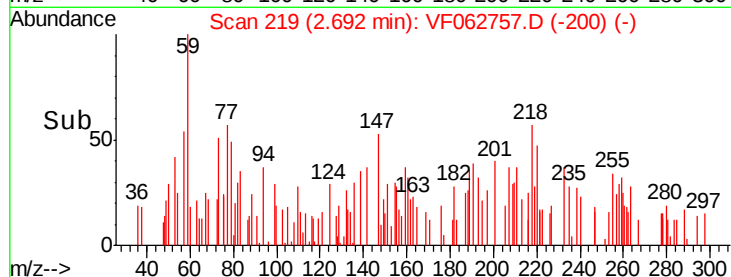
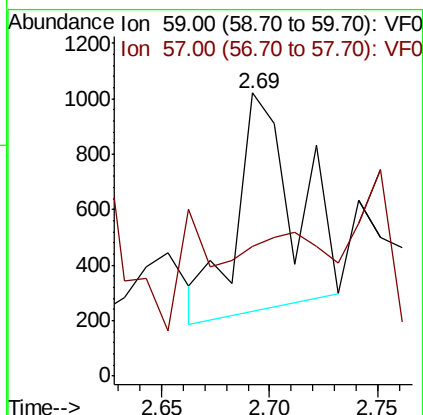
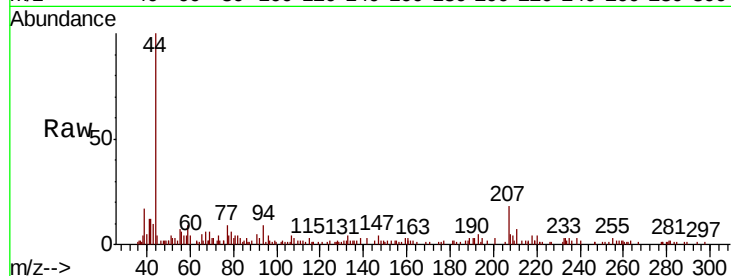




#11
Tert butyl alcohol
Concen: 4.150 ug/l
RT: 2.69 min Scan# 219
Delta R.T. -0.01 min
Lab File: VF062757.D
Acq: 28 May 2019 13:32

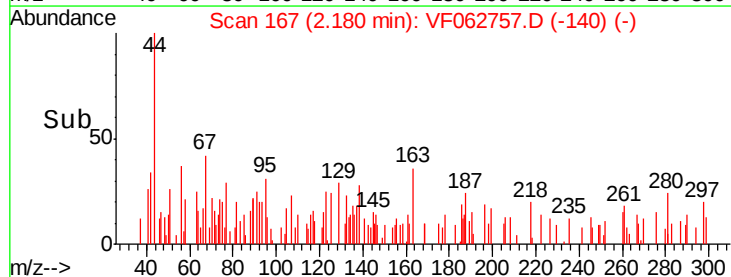
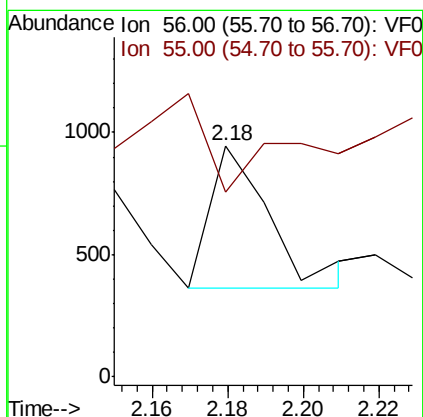
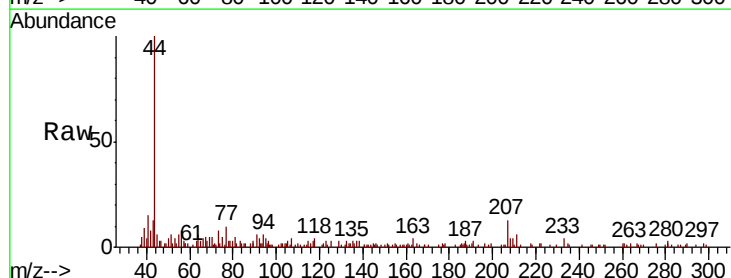
Instrument :
MSVOA_F
ClientSampleId :
FK-SF-03-007-ARE

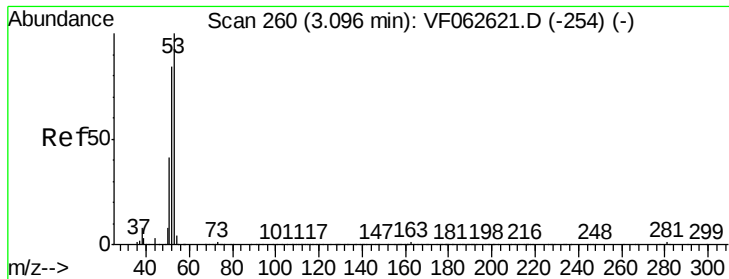
Tot Ion: 59 Resp: 1496
Ion Ratio Lower Upper
59 100
57 45.8 9.3 13.9#



#13
Acrolein
Concen: 1.677 ug/l
RT: 2.18 min Scan# 167
Delta R.T. 0.07 min
Lab File: VF062757.D
Acq: 28 May 2019 13:32

Tgt Ion: 56 Resp: 631
Ion Ratio Lower Upper
56 100
55 79.7 59.4 89.0





#15

Acrylonitrile

Concen: 1.017 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

Instrument :

MSVOA_F

ClientSampleId :

FK-SF-03-007-ARE

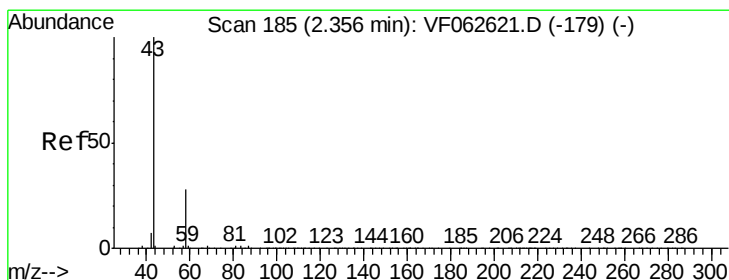
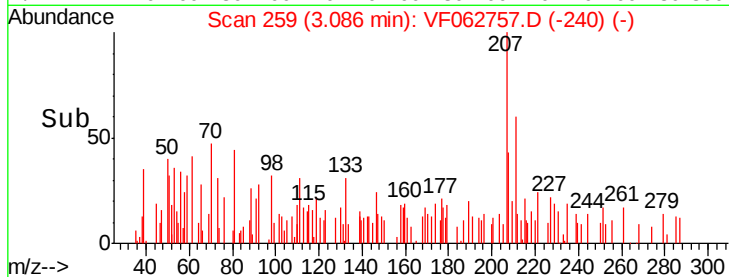
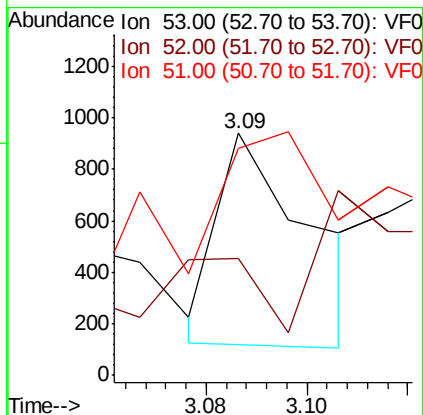
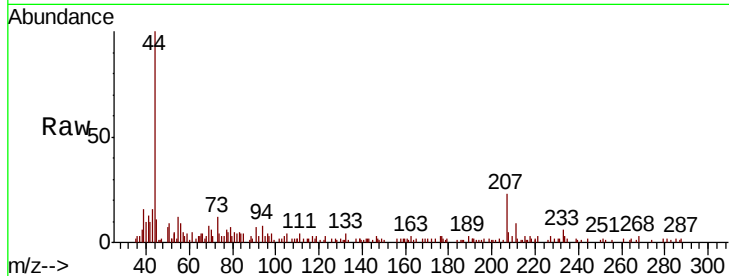
Tot Ion: 53 Resp: 1034

Ion Ratio Lower Upper

53 100

52 48.1 67.3 100.9#

51 93.8 33.0 49.6#



#16

Acetone

Concen: 29.652 ug/l

RT: 2.37 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062757.D

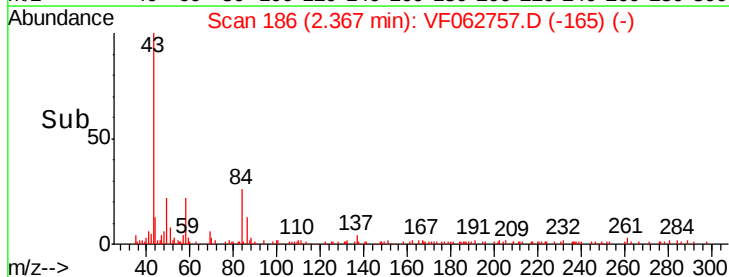
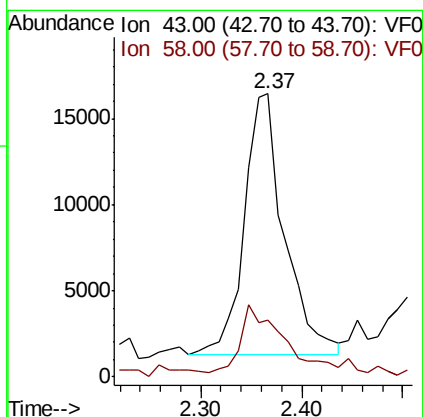
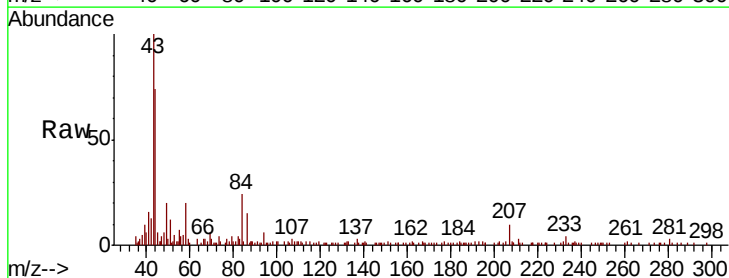
Acq: 28 May 2019 13:32

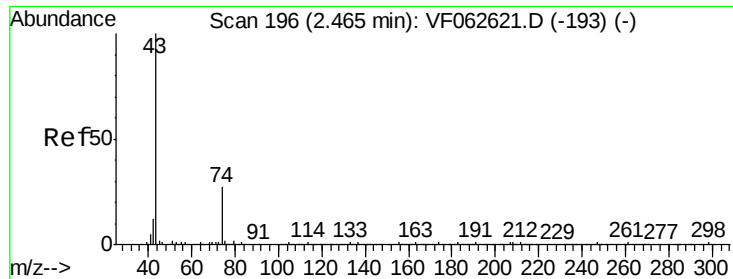
Tgt Ion: 43 Resp: 41999

Ion Ratio Lower Upper

43 100

58 19.9 22.6 33.8#

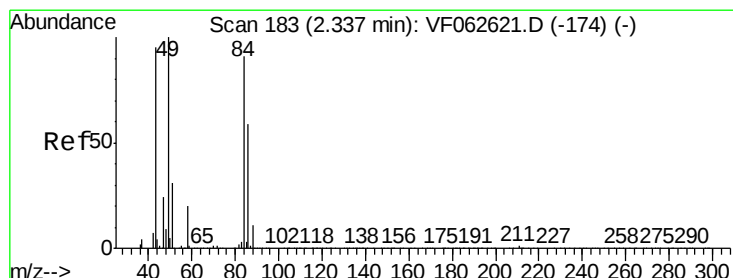
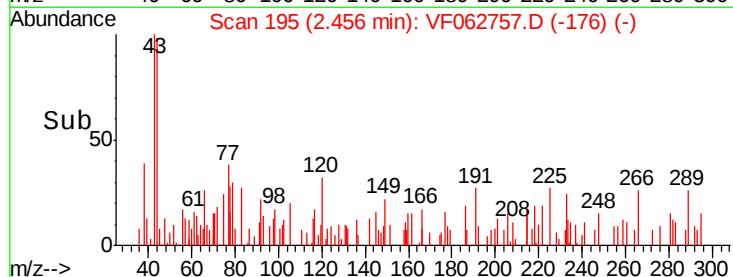
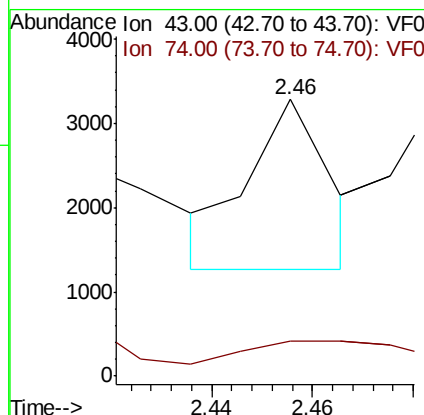
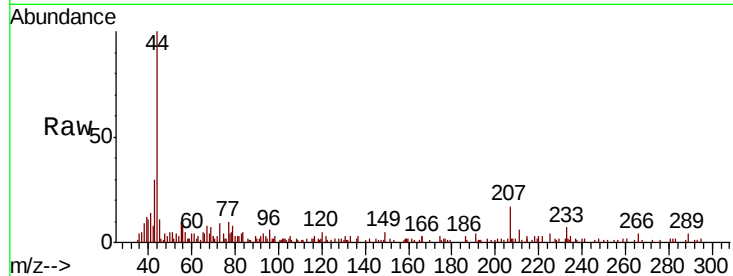




#18
Methyl Acetate
Concen: 1.004 ug/l
RT: 2.46 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF062757.D
Acq: 28 May 2019 13:32

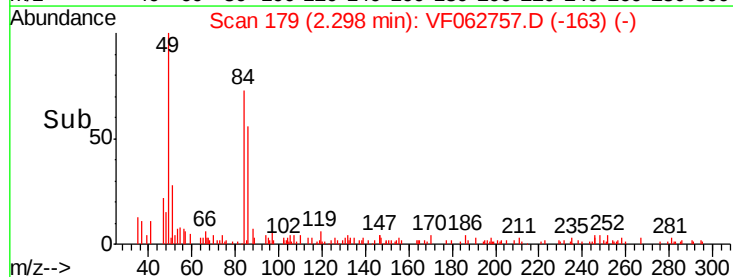
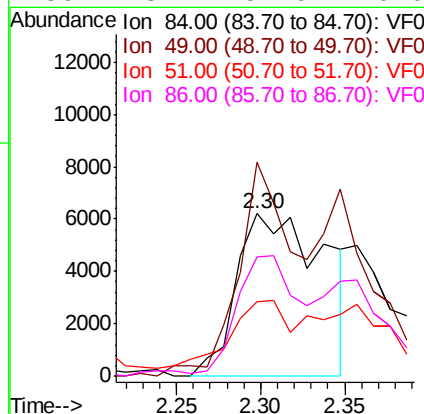
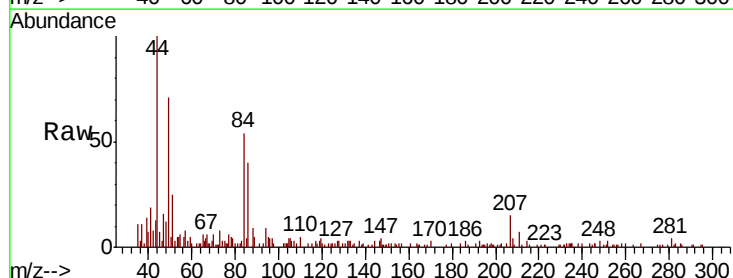
Instrument :
MSVOA_F
ClientSampleId :
FK-SF-03-007-ARE

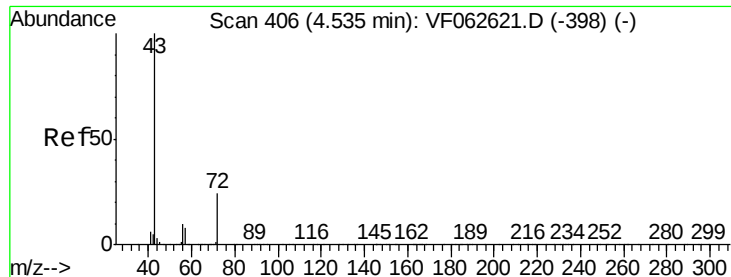
Tot Ion: 43 Resp: 2234
Ion Ratio Lower Upper
43 100
74 12.6 18.9 28.3#



#20
Methylene Chloride
Concen: 3.178 ug/l
RT: 2.30 min Scan# 179
Delta R.T. -0.04 min
Lab File: VF062757.D
Acq: 28 May 2019 13:32

Tgt Ion: 84 Resp: 22562
Ion Ratio Lower Upper
84 100
49 131.7 89.8 134.8
51 45.7 28.4 42.6#
86 73.2 52.6 79.0





#25

2-Butanone

Concen: 1.581 ug/l

RT: 4.57 min Scan# 409

Delta R.T. 0.03 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

Instrument :

MSVOA_F

ClientSampleId :

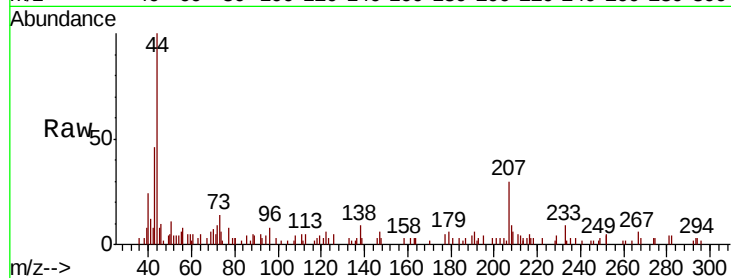
FK-SF-03-007-ARE

Tot Ion: 43 Resp: 4784

Ion Ratio Lower Upper

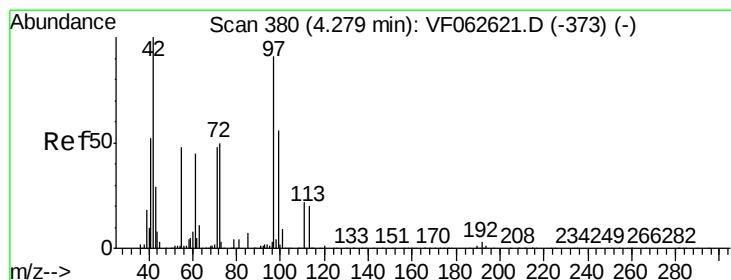
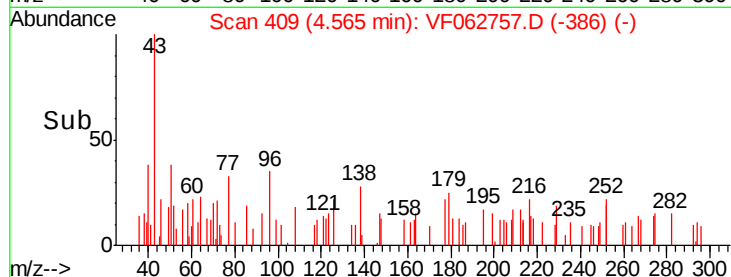
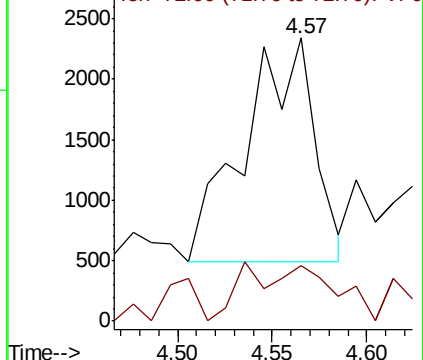
43 100

72 19.7 20.1 30.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 2.817 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

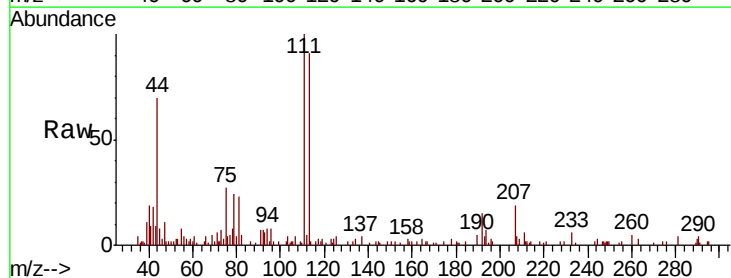
Tgt Ion: 42 Resp: 3449

Ion Ratio Lower Upper

42 100

72 52.9 38.2 57.2

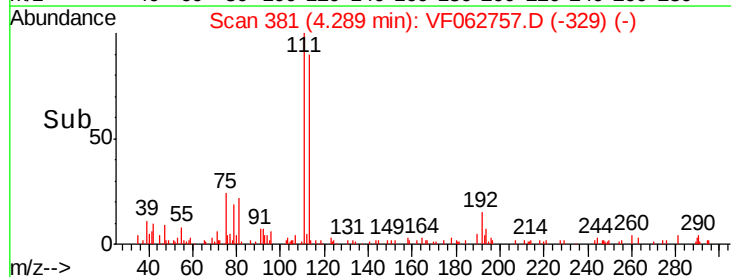
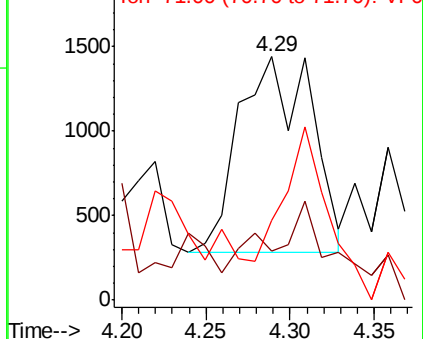
71 57.0 35.8 53.6#

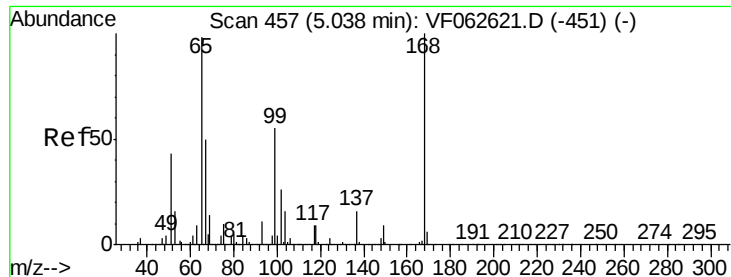


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 44.850 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.01 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

Instrument :

MSVOA_F

ClientSampleId :

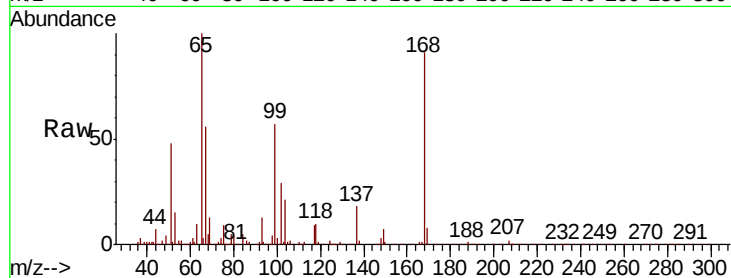
FK-SF-03-007-ARE

Tot Ion: 65 Resp: 244858

Ion Ratio Lower Upper

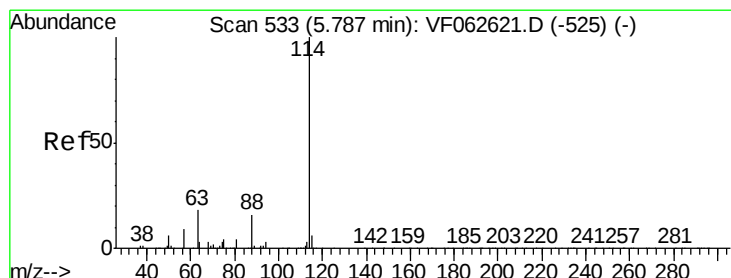
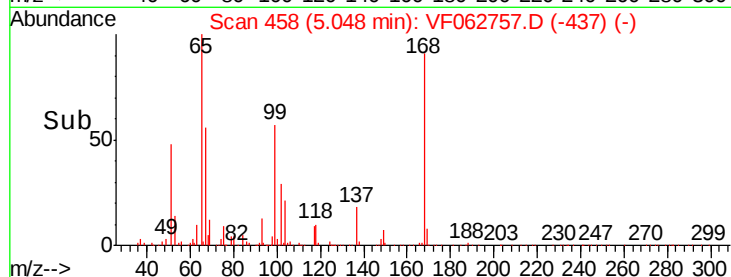
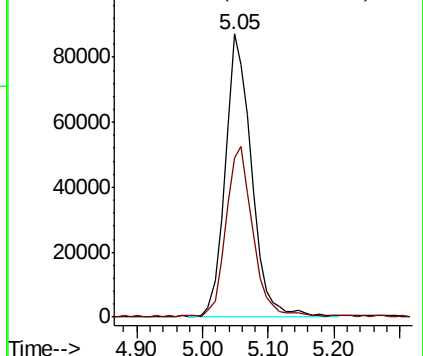
65 100

67 56.2 0.0 117.6



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: 5.80 min Scan# 534

Delta R.T. 0.01 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

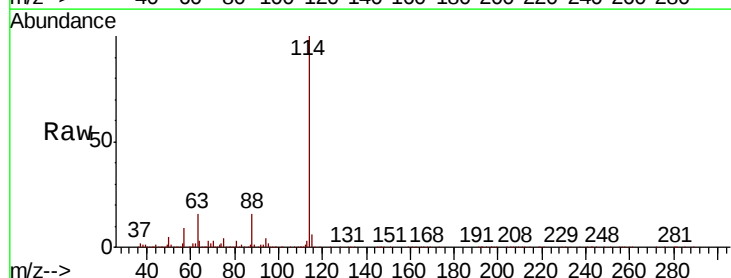
Tgt Ion:114 Resp: 1292415

Ion Ratio Lower Upper

114 100

63 16.4 0.0 35.4

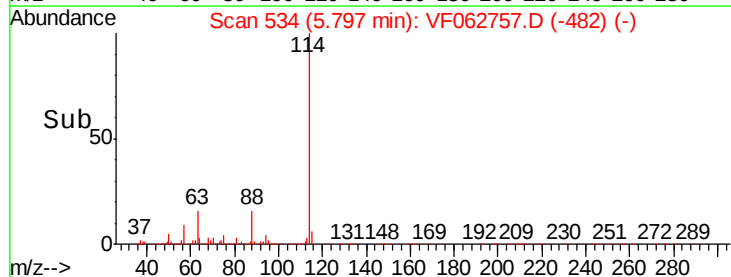
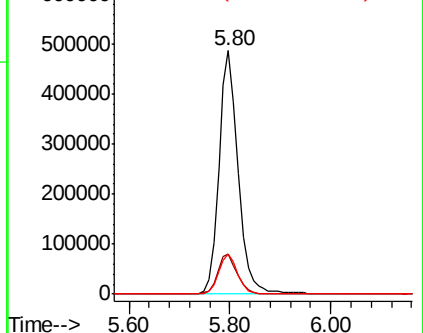
88 16.4 0.0 32.4

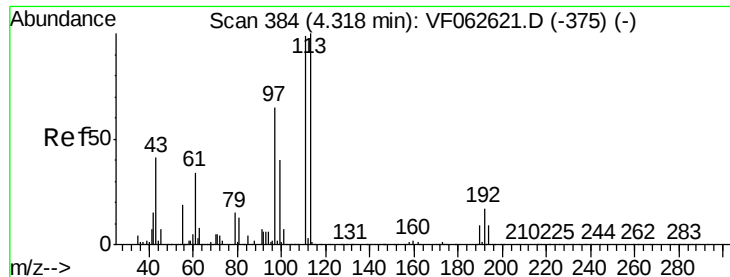


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

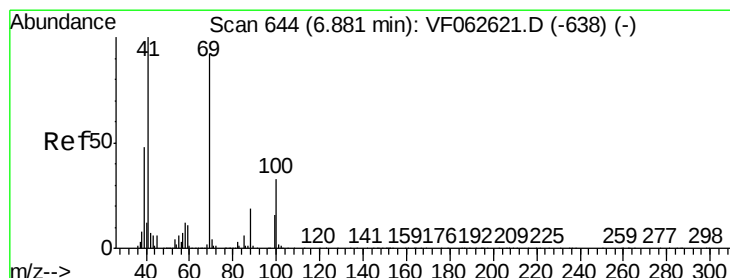
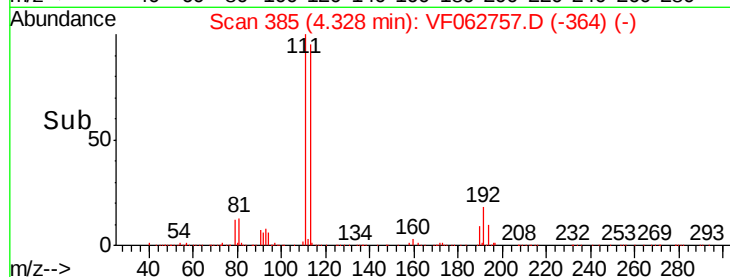
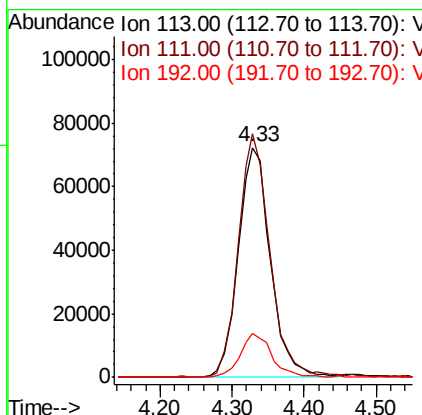
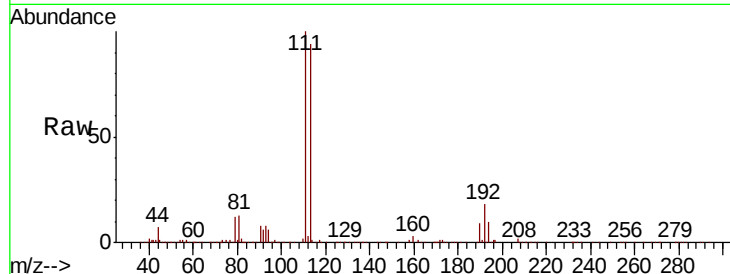




#35
 Dibromofluoromethane
 Concen: 22.770 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.01 min
 Lab File: VF062757.D
 Acq: 28 May 2019 13:32

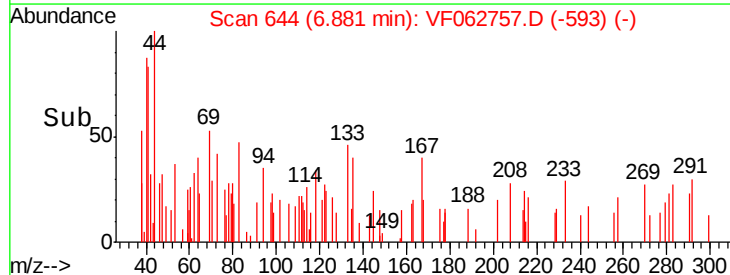
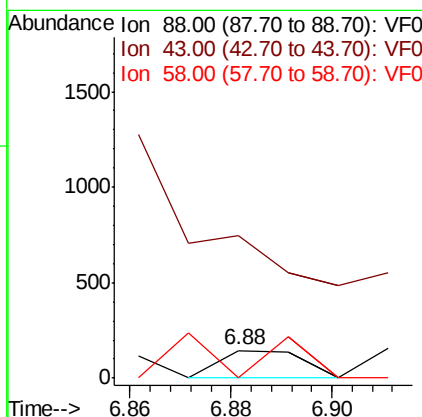
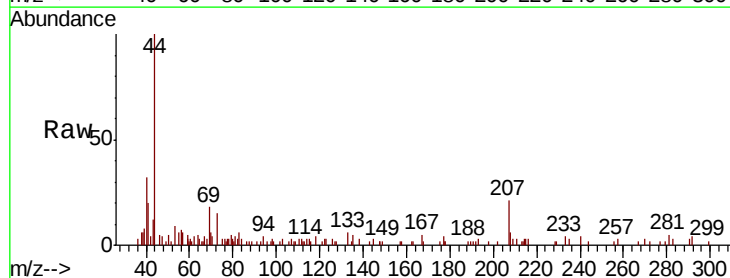
Instrument :
 MSVOA_F
 ClientSampleId :
 FK-SF-03-007-ARE

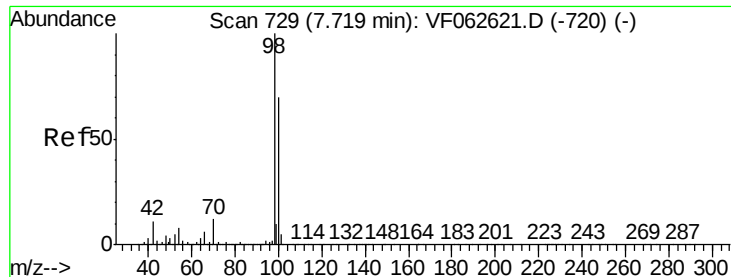
Tot Ion	Ratio	Lower	Upper
113	100		
111	105.9	79.4	119.2
192	19.1	13.4	20.2



#49
 1,4-Dioxane
 Concen: 3.540 ug/l
 RT: 6.88 min Scan# 644
 Delta R.T. 0.00 min
 Lab File: VF062757.D
 Acq: 28 May 2019 13:32

Tgt Ion	Ratio	Lower	Upper
88	100		
43	510.3	30.0	45.0#
58	0.0	51.1	76.7#





#50

Toluene-d8

Concen: 36.752 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.01 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

Instrument :

MSVOA_F

ClientSampleId :

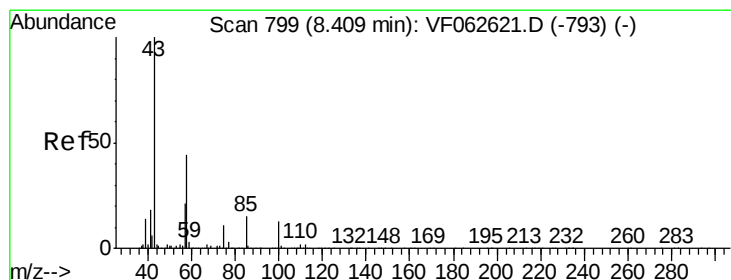
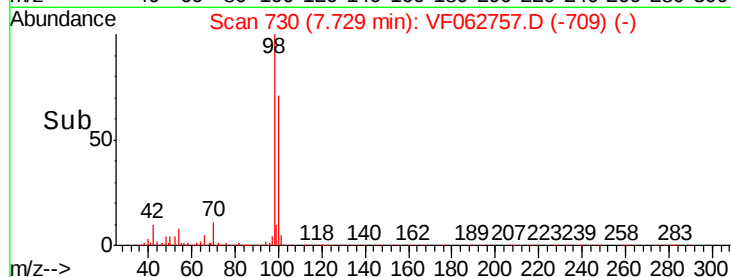
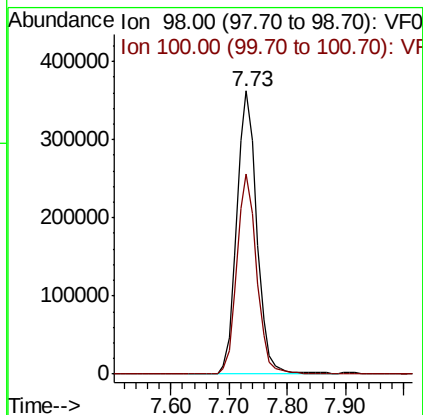
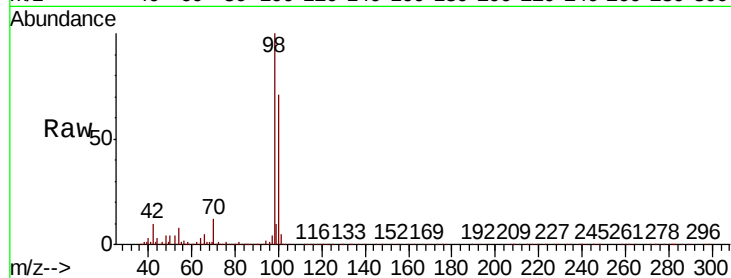
FK-SF-03-007-ARE

Tot Ion: 98 Resp: 867807

Ion Ratio Lower Upper

98 100

100 70.9 56.2 84.2



#51

4-Methyl-2-Pentanone

Concen: 7.370 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.02 min

Lab File: VF062757.D

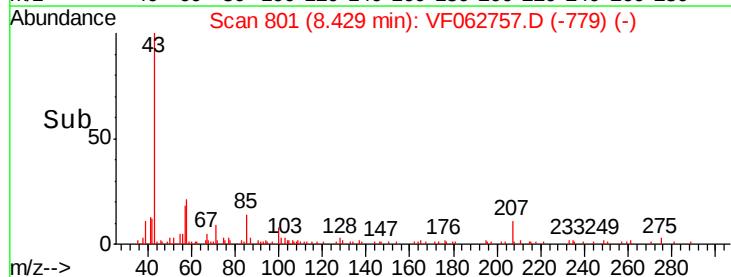
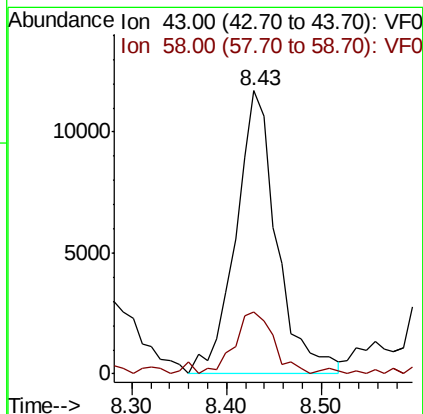
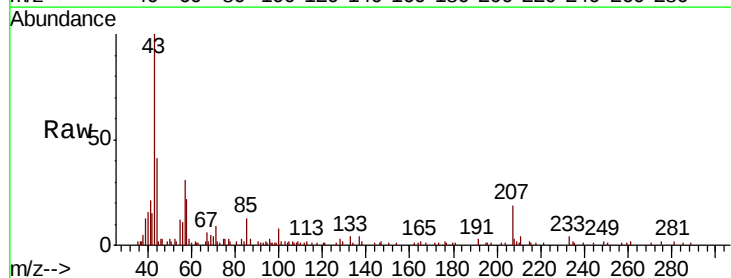
Acq: 28 May 2019 13:32

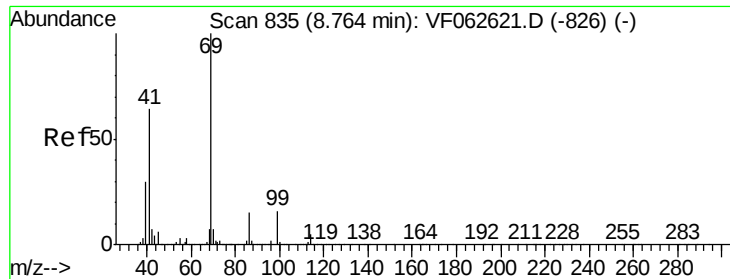
Tgt Ion: 43 Resp: 35290

Ion Ratio Lower Upper

43 100

58 22.1 34.9 52.3#





#56

Ethyl methacrylate

Concen: 4.252 ug/l

RT: 8.78 min Scan# 837

Delta R.T. 0.02 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

Instrument :

MSVOA_F

ClientSampleId :

FK-SF-03-007-ARE

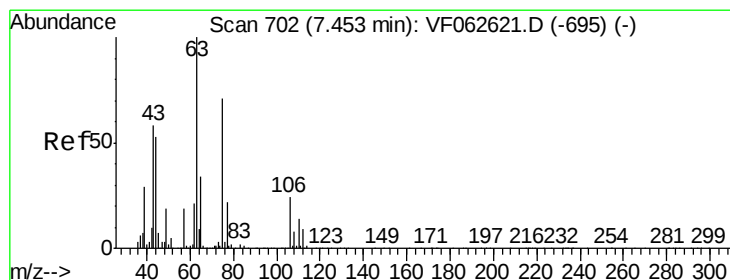
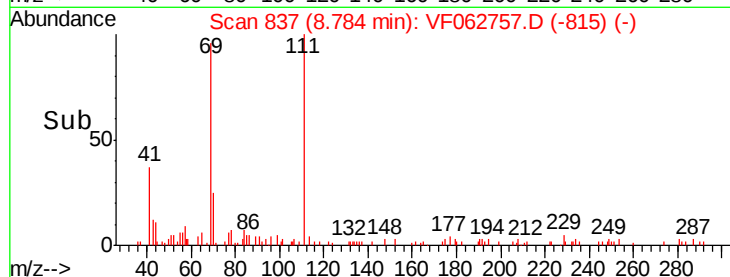
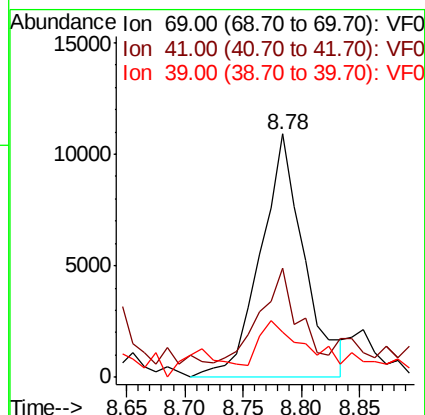
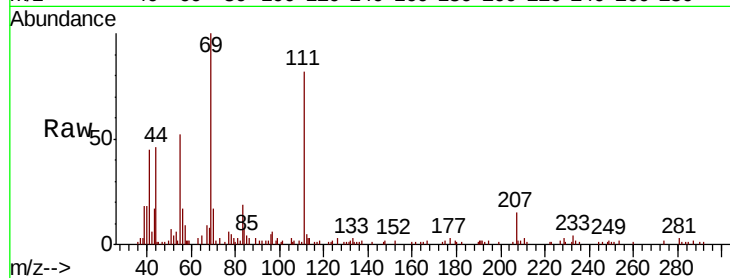
Tot Ion: 69 Resp: 28381

Ion Ratio Lower Upper

69 100

41 44.7 51.4 77.2#

39 18.4 23.6 35.4#



#58

2-Chloroethyl Vinyl ether

Concen: 1.637 ug/l

RT: 7.47 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF062757.D

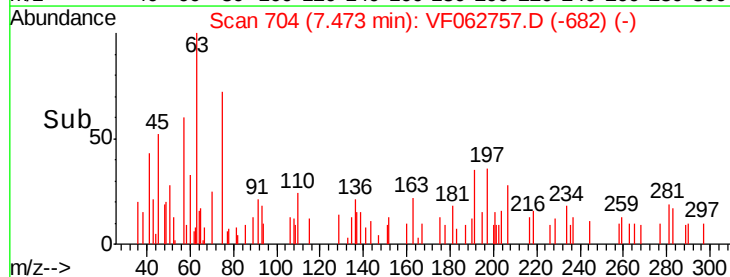
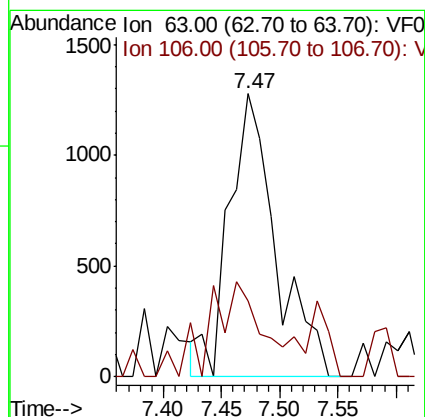
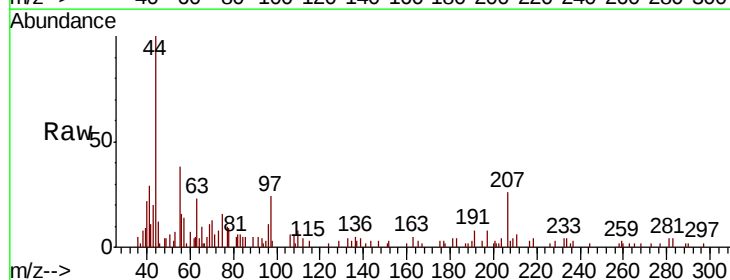
Acq: 28 May 2019 13:32

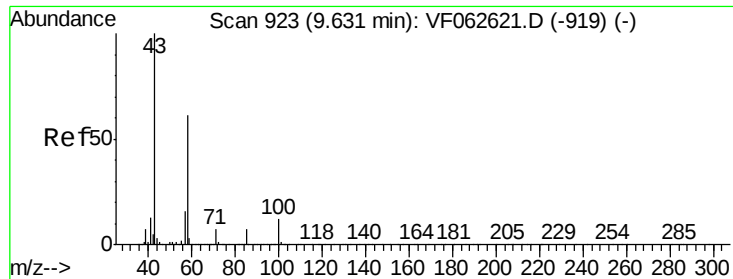
Tgt Ion: 63 Resp: 3556

Ion Ratio Lower Upper

63 100

106 26.8 19.1 28.7

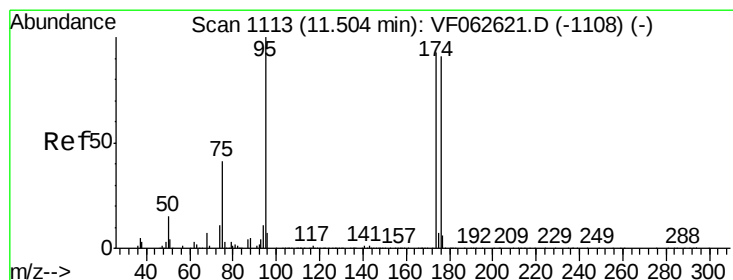
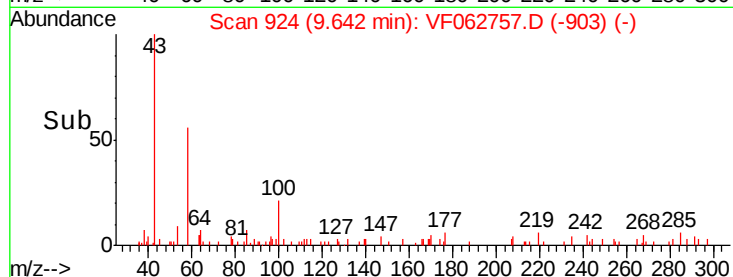
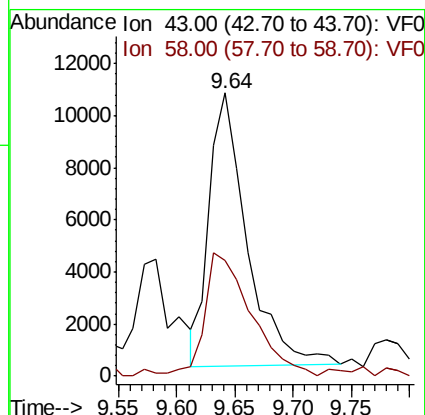
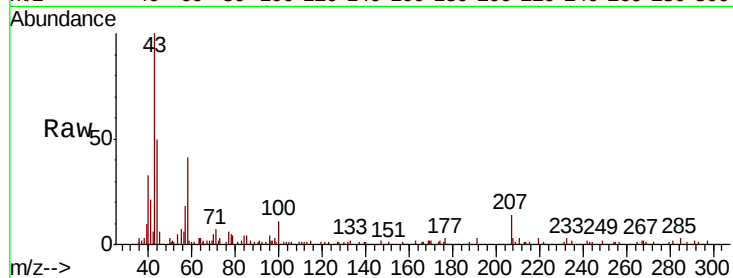




#59
2-Hexanone
Concen: Below Cal
RT: 9.64 min Scan# 924
Delta R.T. 0.01 min
Lab File: VF062757.D
Acq: 28 May 2019 13:32

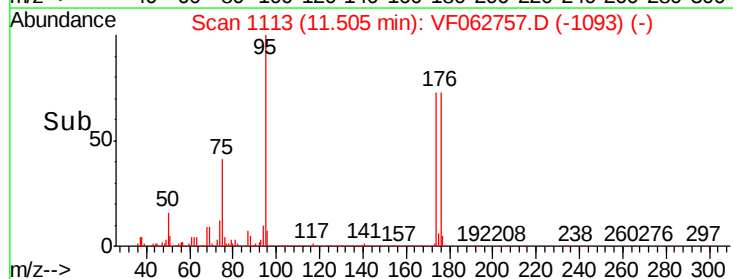
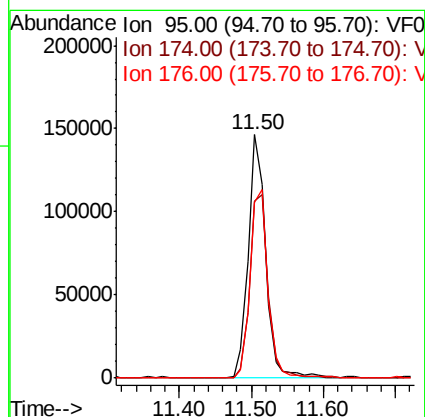
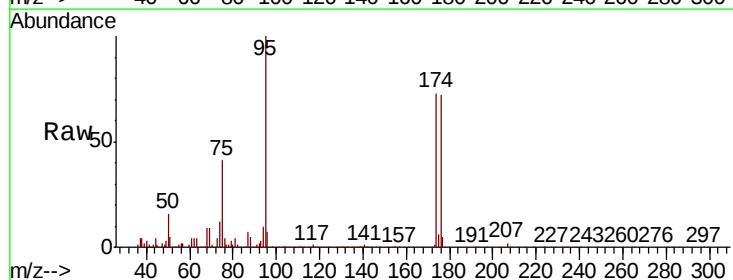
Instrument :
MSVOA_F
ClientSampleId :
FK-SF-03-007-ARE

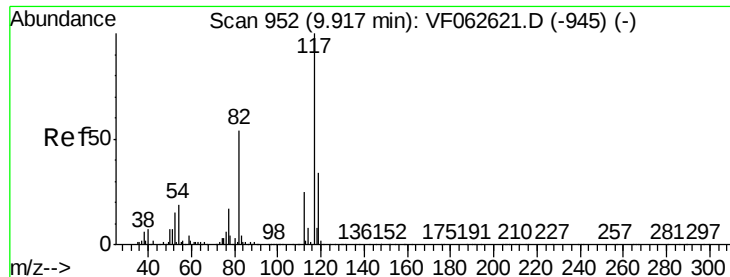
Tot Ion: 43 Resp: 23728
Ion Ratio Lower Upper
43 100
58 40.9 28.1 84.4



#62
4-Bromofluorobenzene
Concen: 27.944 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VF062757.D
Acq: 28 May 2019 13:32

Tgt Ion: 95 Resp: 250255
Ion Ratio Lower Upper
95 100
174 72.9 0.0 185.6
176 72.3 0.0 182.4

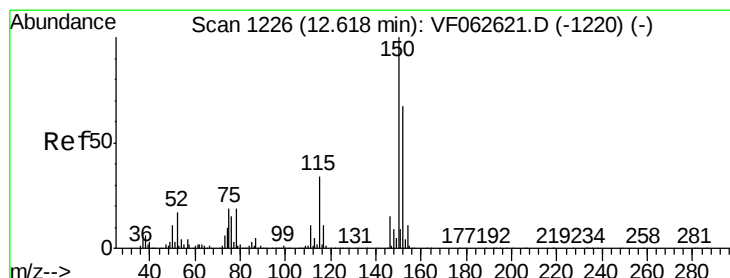
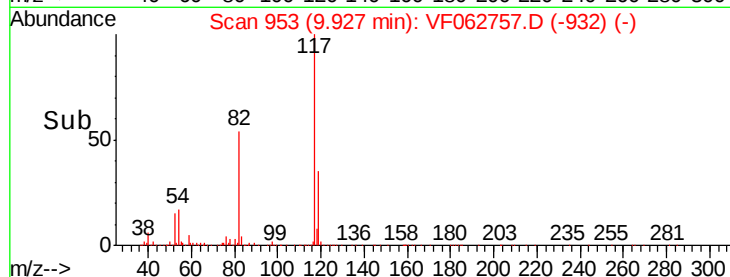
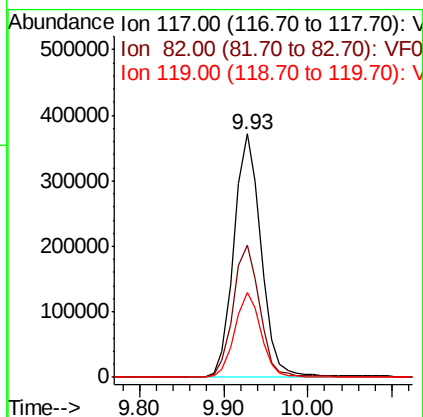
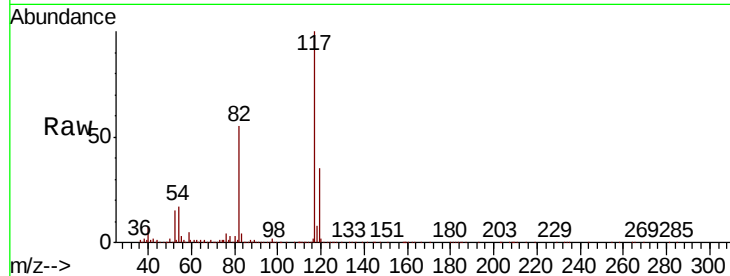




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.01 min
Lab File: VF062757.D
Acq: 28 May 2019 13:32

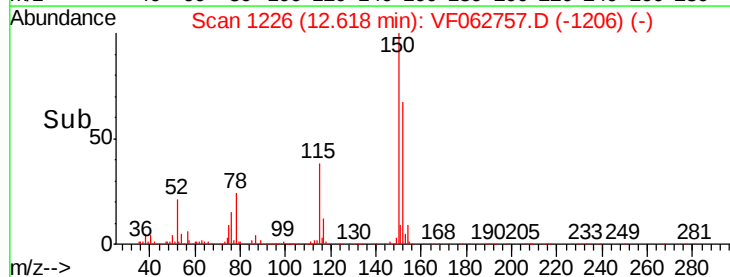
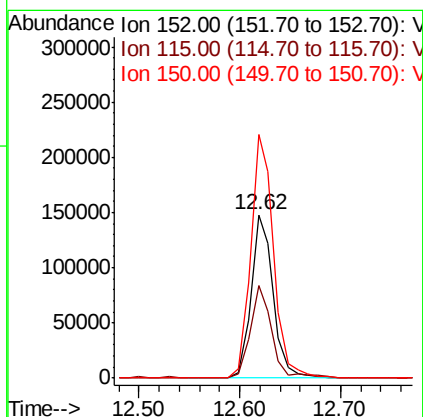
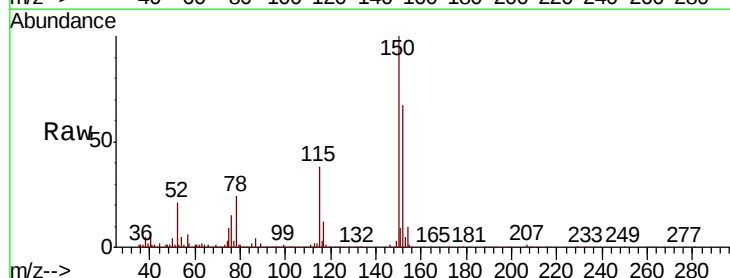
Instrument :
MSVOA_F
ClientSampleId :
FK-SF-03-007-ARE

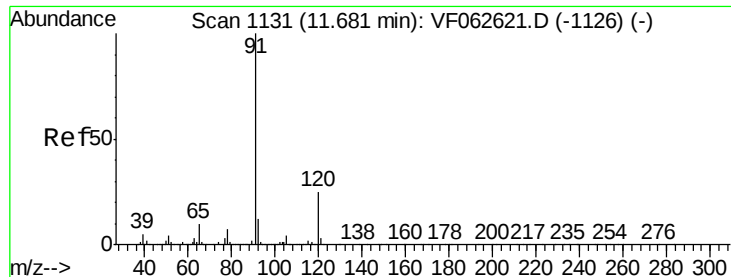
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.3	64.9
119	35.0	27.4	41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062757.D
Acq: 28 May 2019 13:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.4	25.2	75.6
150	149.2	0.0	306.2





#78

n-propylbenzene

Concen: 1.060 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

Instrument :

MSVOA_F

ClientSampleId :

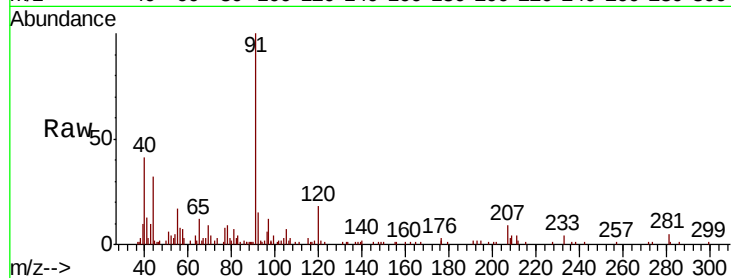
FK-SF-03-007-ARE

Tot Ion: 91 Resp: 20367

Ion Ratio Lower Upper

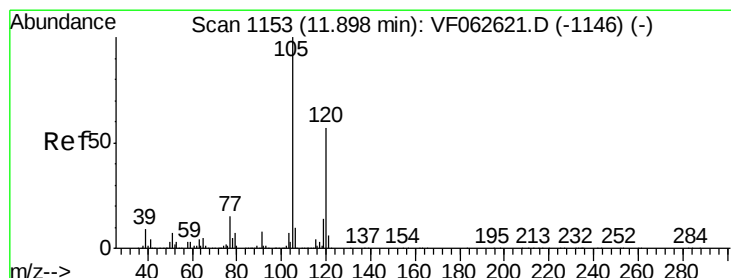
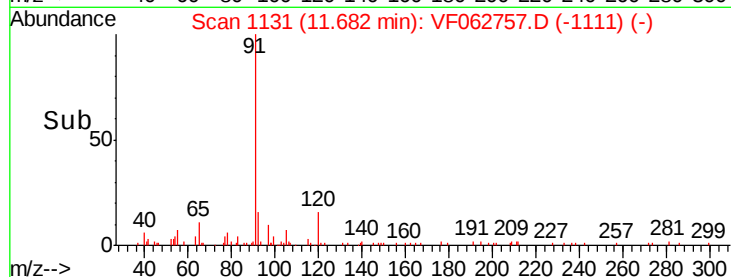
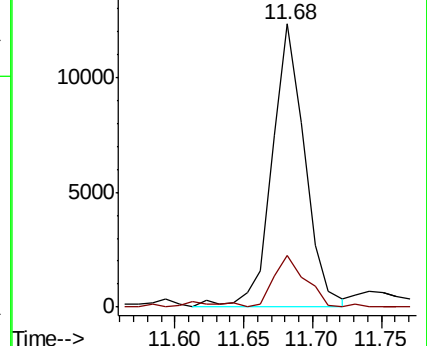
91 100

120 18.2 12.7 38.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 5.817 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VF062757.D

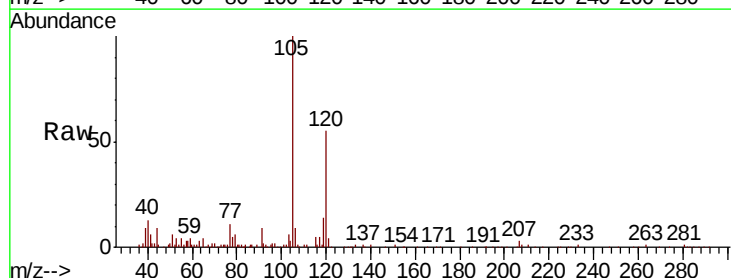
Acq: 28 May 2019 13:32

Tgt Ion:105 Resp: 75763

Ion Ratio Lower Upper

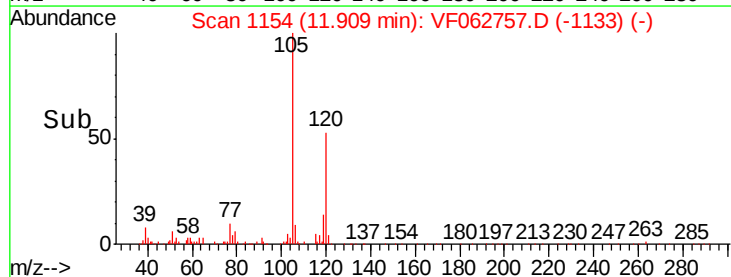
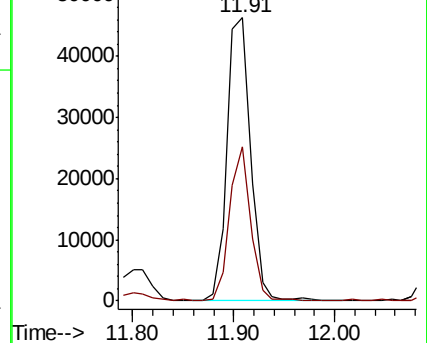
105 100

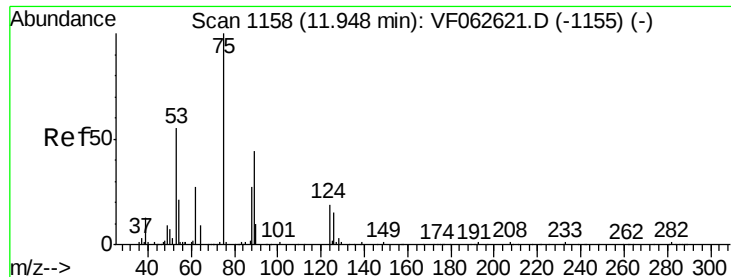
120 54.5 28.7 86.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.081 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

Instrument :

MSVOA_F

ClientSampleId :

FK-SF-03-007-ARE

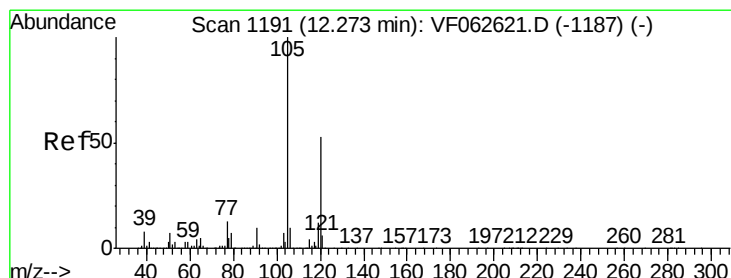
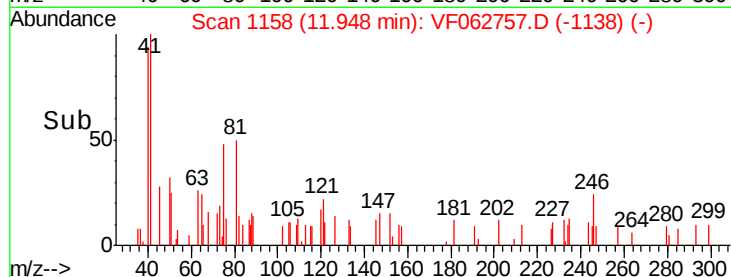
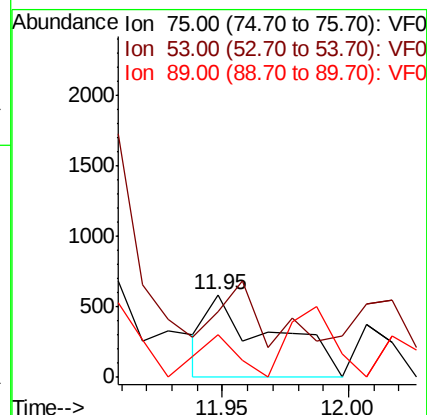
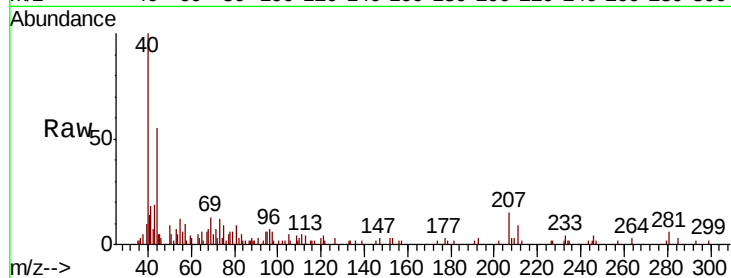
Tot Ion: 75 Resp: 1048

Ion Ratio Lower Upper

75 100

53 79.6 46.9 70.3#

89 51.0 36.4 54.6



#84

1,2,4-Trimethylbenzene

Concen: 1.108 ug/l

RT: 12.28 min Scan# 1192

Delta R.T. 0.01 min

Lab File: VF062757.D

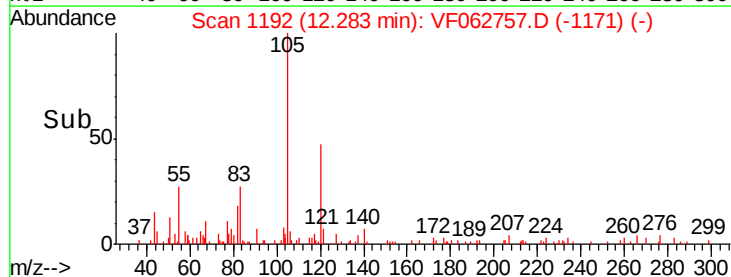
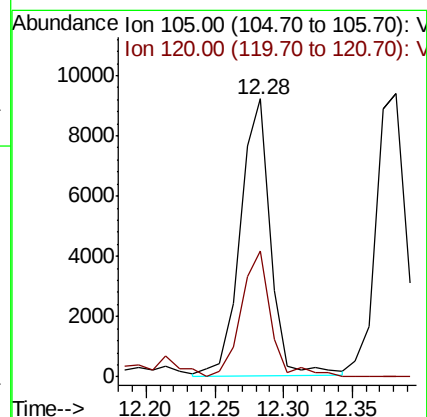
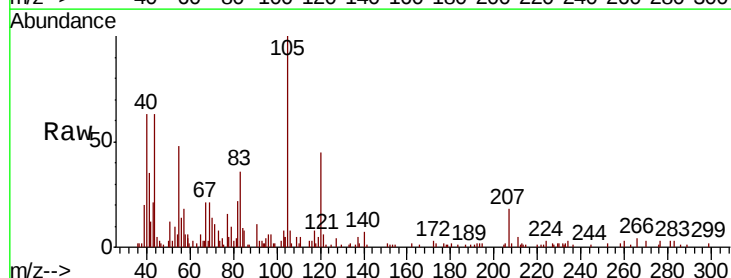
Acq: 28 May 2019 13:32

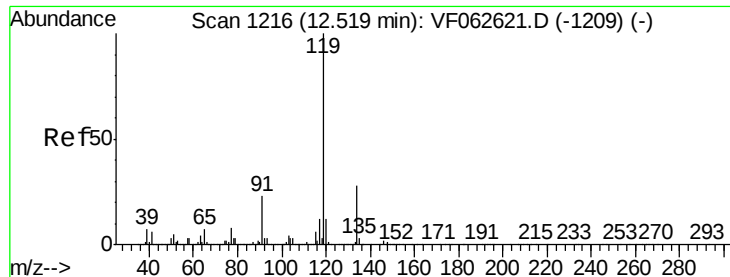
Tgt Ion: 105 Resp: 13967

Ion Ratio Lower Upper

105 100

120 45.3 26.7 80.1

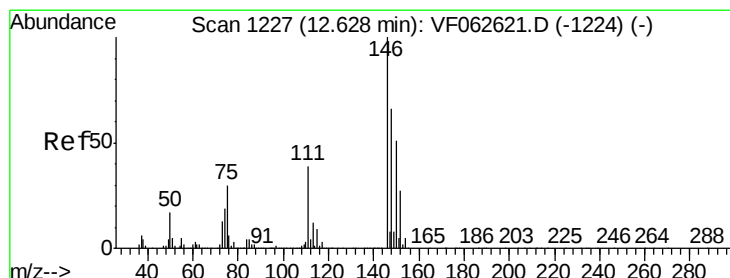
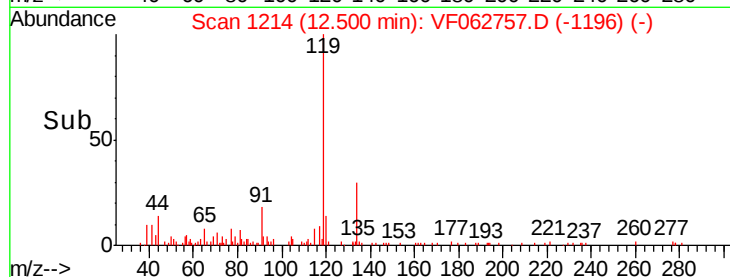
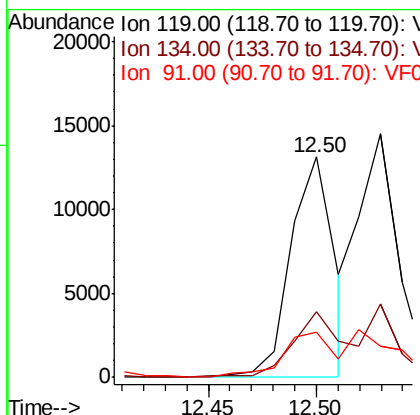
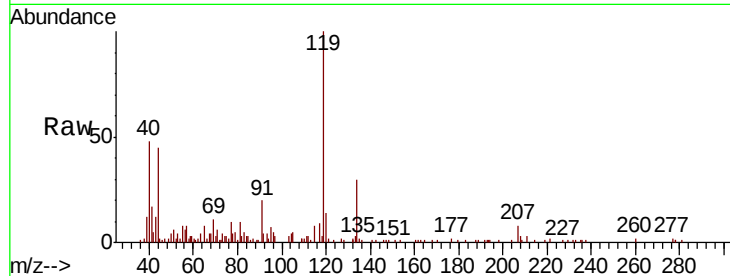




#86
 p-Isopropyltoluene
 Concen: 1.214 ug/l
 RT: 12.50 min Scan# 1214
 Delta R.T. -0.02 min
 Lab File: VF062757.D
 Acq: 28 May 2019 13:32

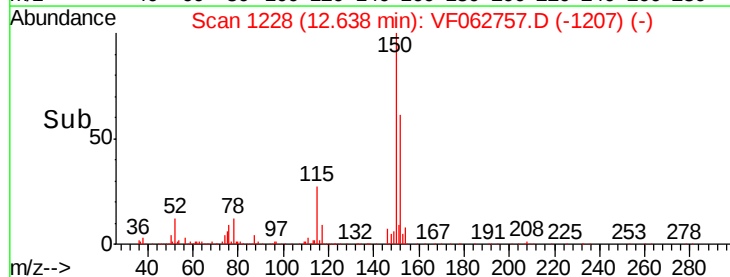
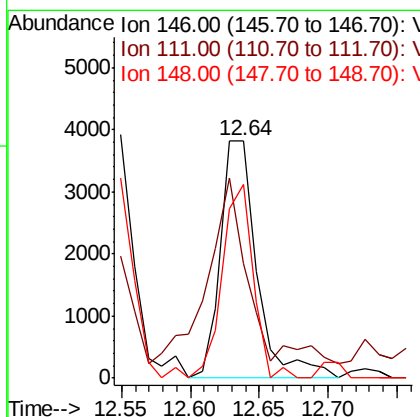
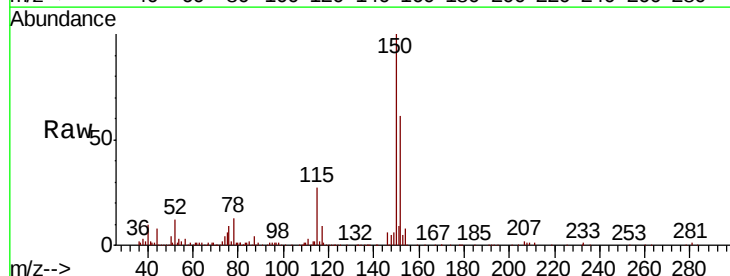
Instrument :
 MSVOA_F
 ClientSampleId :
 FK-SF-03-007-ARE

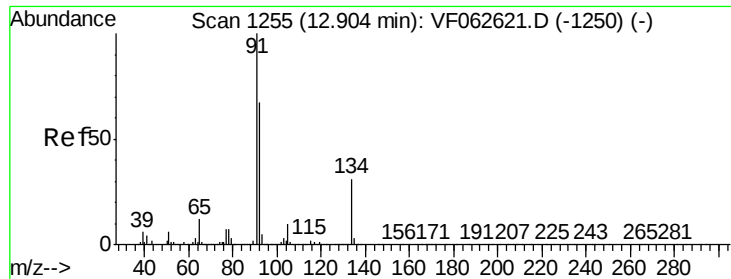
Tot Ion:	119	Resp:	18142
Ion	Ratio	Lower	Upper
119	100		
134	29.7	14.1	42.3
91	20.5	11.4	34.2



#88
 1,4-Dichlorobenzene
 Concen: 1.031 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. 0.01 min
 Lab File: VF062757.D
 Acq: 28 May 2019 13:32

Tgt Ion:	146	Resp:	7064
Ion	Ratio	Lower	Upper
146	100		
111	48.1	19.4	58.2
148	81.3	33.2	99.6





#89

n-Butylbenzene

Concen: 1.379 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

Instrument :

MSVOA_F

ClientSampleId :

FK-SF-03-007-ARE

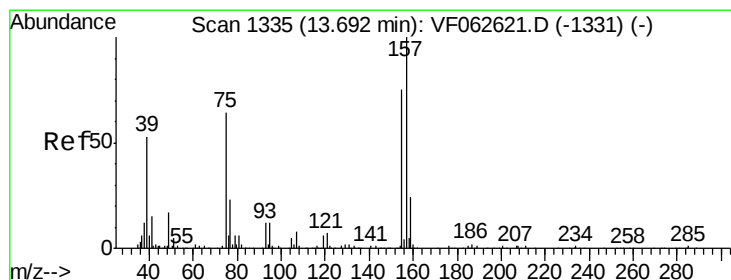
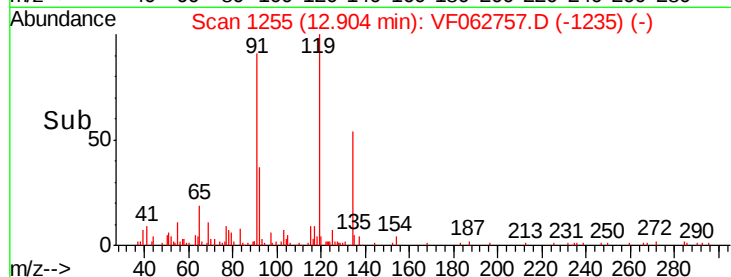
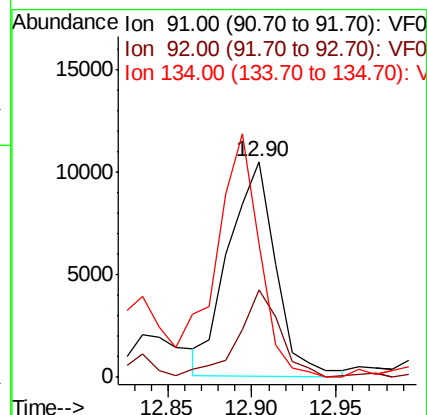
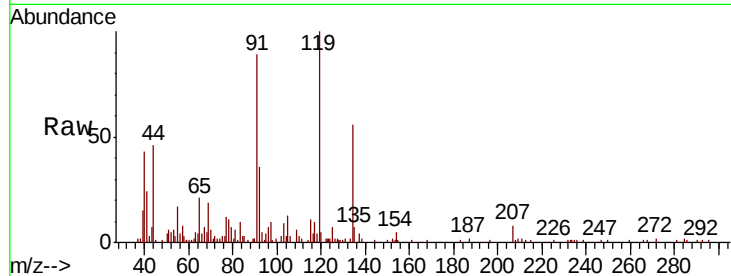
Tot Ion: 91 Resp: 20323

Ion Ratio Lower Upper

91 100

92 40.5 33.3 99.8

134 62.1 15.4 46.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.548 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VF062757.D

Acq: 28 May 2019 13:32

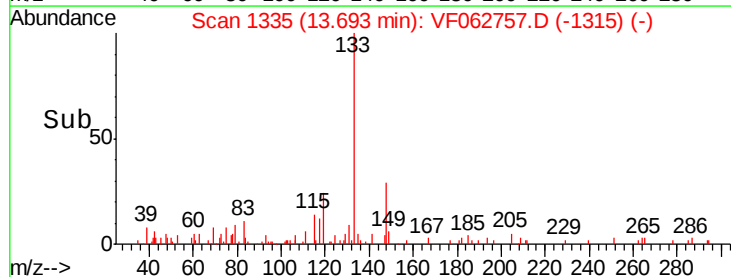
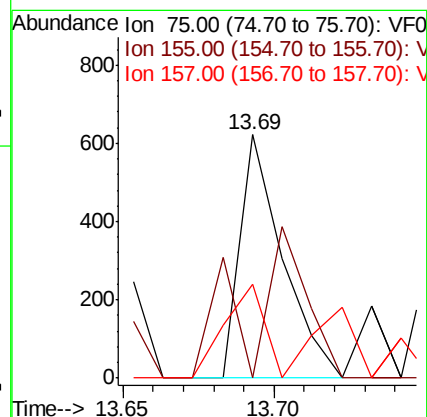
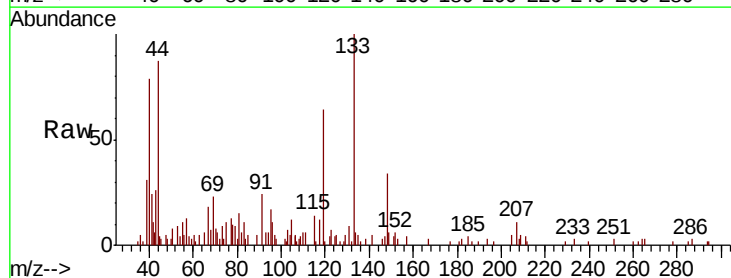
Tgt Ion: 75 Resp: 613

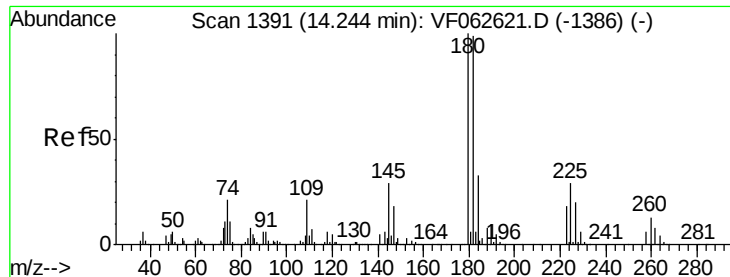
Ion Ratio Lower Upper

75 100

155 0.0 58.1 174.3#

157 38.3 77.8 233.4#

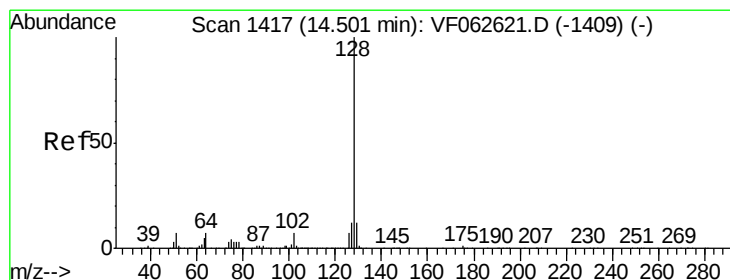
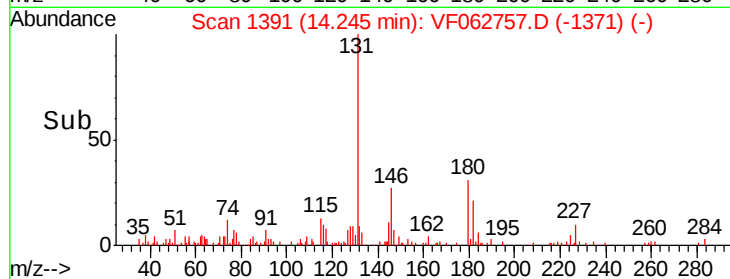
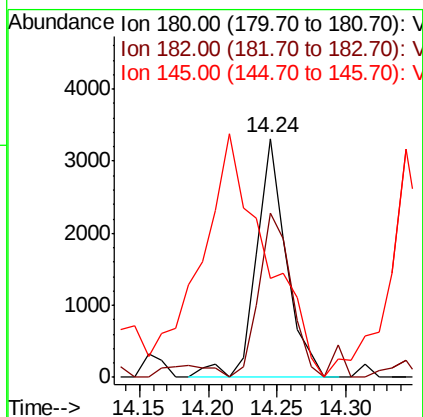
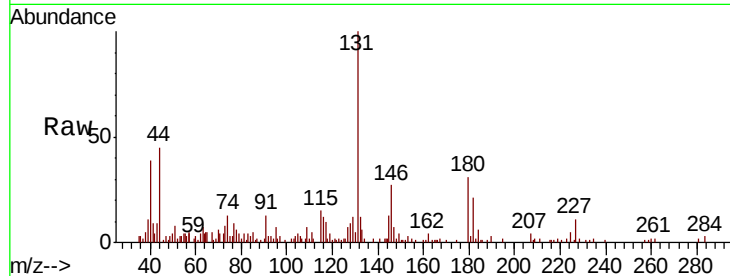




#93
 1,2,4-Trichlorobenzene
 Concen: 1.081 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.00 min
 Lab File: VF062757.D
 Acq: 28 May 2019 13:32

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-SF-03-007-ARE

Tot Ion:180 Resp: 5040
 Ion Ratio Lower Upper
 180 100
 182 68.6 49.7 149.1
 145 41.3 14.6 44.0



#95
 Naphthalene
 Concen: 4.477 ug/l
 RT: 14.50 min Scan# 1417
 Delta R.T. 0.00 min
 Lab File: VF062757.D
 Acq: 28 May 2019 13:32

Tgt Ion:128 Resp: 37902
 Ion Ratio Lower Upper
 128 100
 127 9.8 9.7 14.5
 129 18.9 9.3 13.9#

