

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022819\
 Data File : VF061792.D
 Acq On : 28 Feb 2019 17:23
 Operator : VA/AP
 Sample : K1340-01
 Misc : 7.34g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BU-03-022719

Quant Time: Mar 01 00:20:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	300787	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.58	114	479052	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	390710	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	208169	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	126159	57.20	ug/l	-0.03
Spiked Amount			Recovery	=	114.40%	
35) Dibromofluoromethane	4.10	113	177386	49.86	ug/l	-0.02
Spiked Amount			Recovery	=	99.72%	
50) Toluene-d8	7.54	98	401663	39.28	ug/l	-0.02
Spiked Amount			Recovery	=	78.56%	
62) 4-Bromofluorobenzene	11.40	95	184221	44.52	ug/l	-0.02
Spiked Amount			Recovery	=	89.04%	

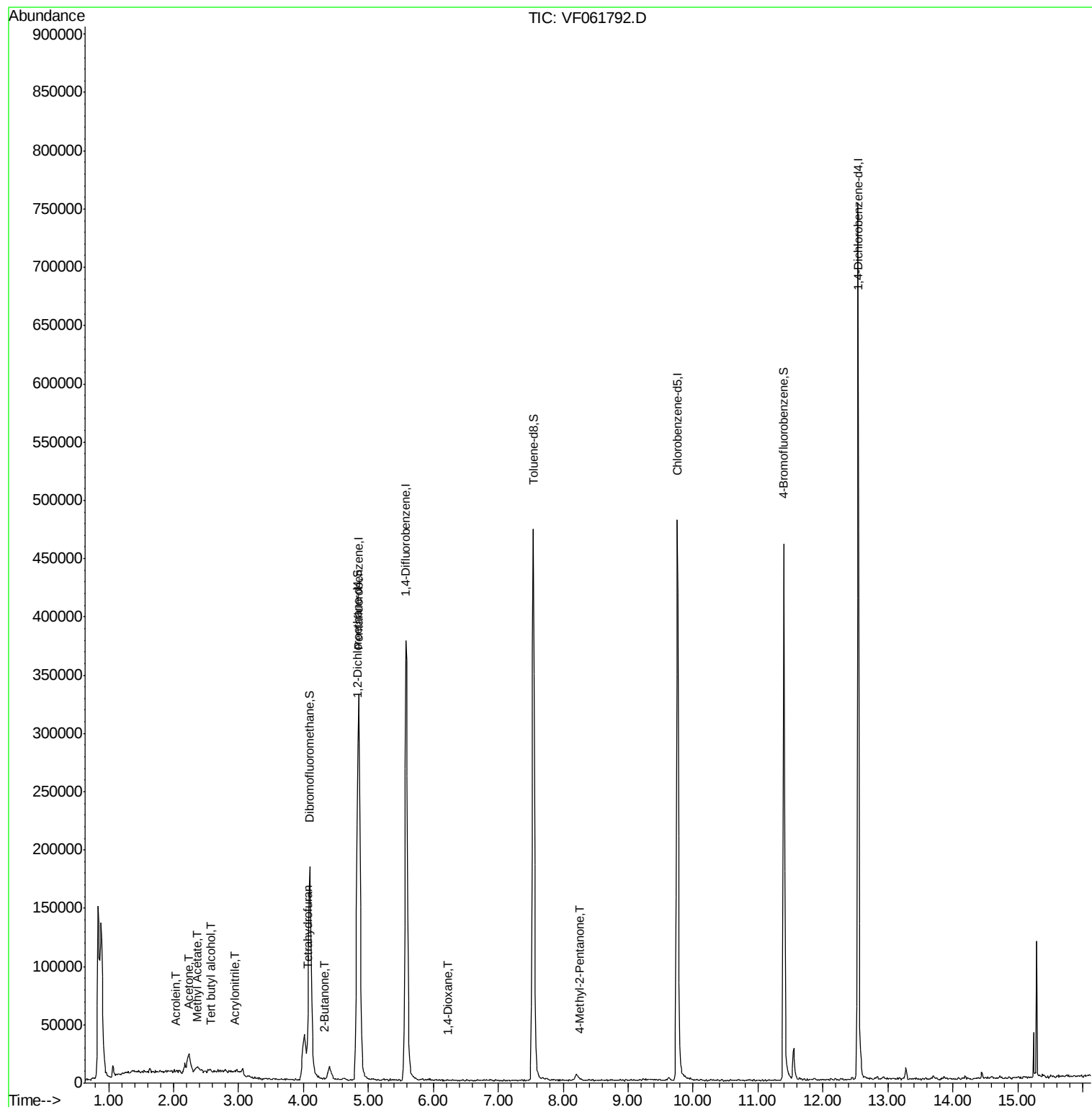
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	760	5.954	ug/l #	63
13) Acrolein	2.04	56	808	5.036	ug/l	95
15) Acrylonitrile	2.94	53	485	1.071	ug/l #	73
16) Acetone	2.23	43	14355	30.333	ug/l	90
18) Methyl Acetate	2.35	43	2932	2.750	ug/l #	59
20) Methylene Chloride	2.24	84	5746	Below Cal		88
25) 2-Butanone	4.33	43	2279	2.205	ug/l #	55
29) Tetrahydrofuran	4.06	42	2502	5.325	ug/l #	84
49) 1,4-Dioxane	6.21	88	64	4.336	ug/l #	20
51) 4-Methyl-2-Pentanone	8.26	43	2152	1.154	ug/l	99

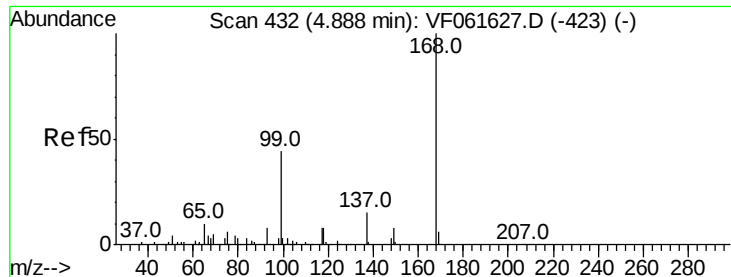
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF061792.D

Acq: 28 Feb 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

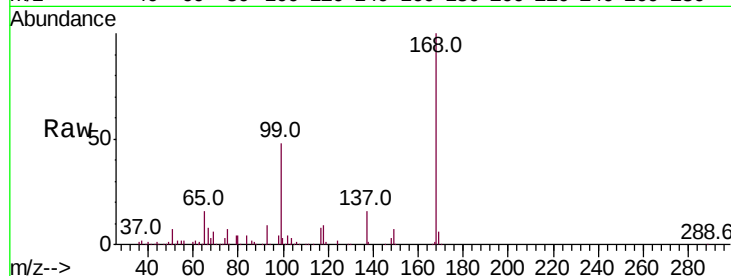
BU-03-022719

Tot Ion:168 Resp: 300787

Ion Ratio Lower Upper

168 100

99 48.5 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

100000

80000

60000

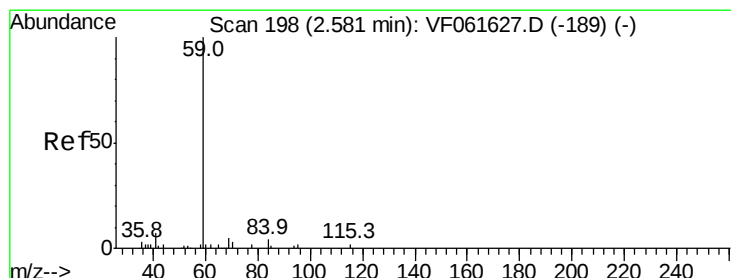
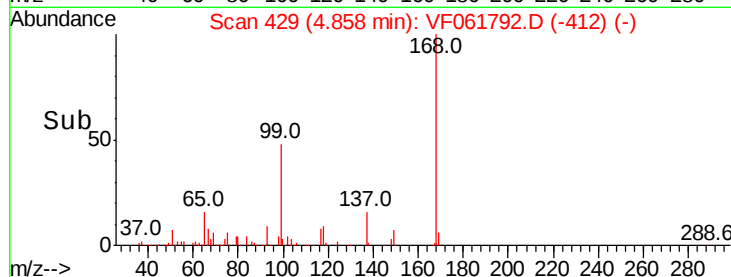
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#11

Tert butyl alcohol

Concen: 5.954 ug/l

RT: 2.58 min Scan# 198

Delta R.T. -0.00 min

Lab File: VF061792.D

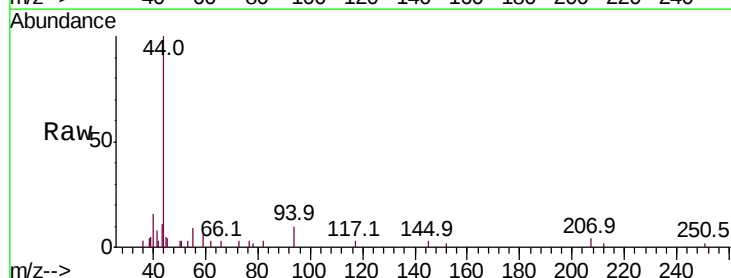
Acq: 28 Feb 2019 17:23

Tgt Ion: 59 Resp: 760

Ion Ratio Lower Upper

59 100

57 0.0 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.58

250

200

150

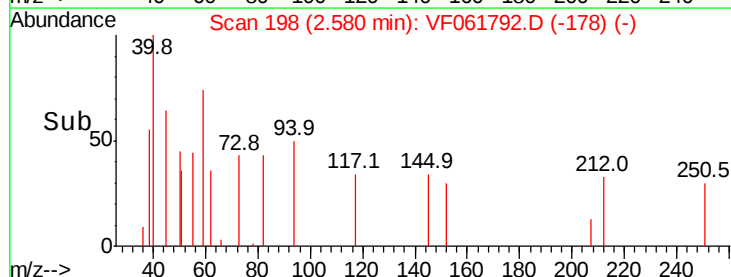
100

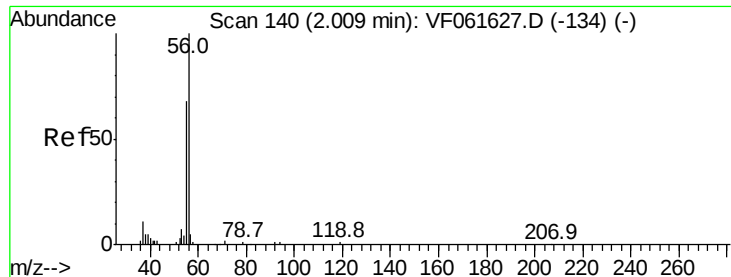
50

0

2.50 2.55 2.60 2.65

Time-->





#13

Acrolein

Concen: 5.036 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.03 min

Lab File: VF061792.D

Acq: 28 Feb 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

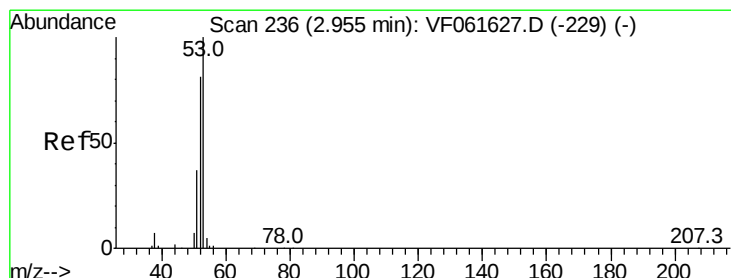
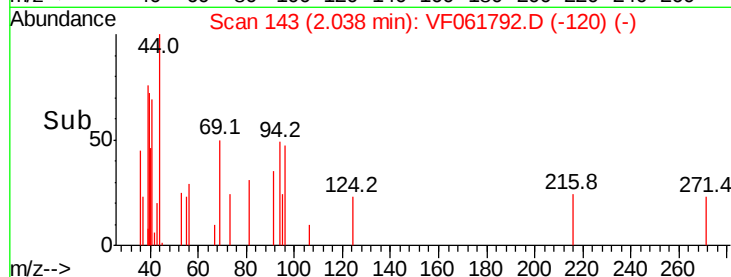
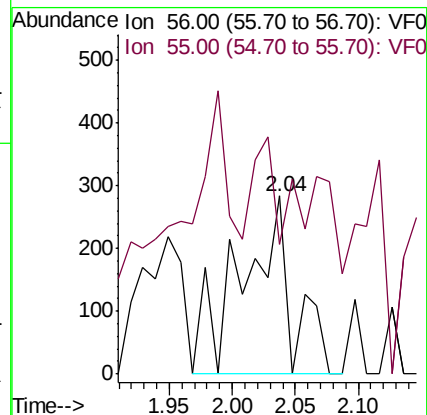
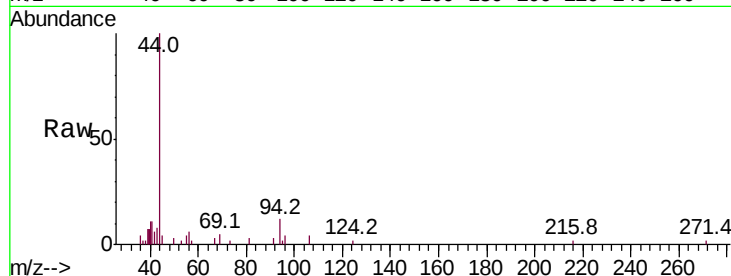
BU-03-022719

Tot Ion: 56 Resp: 808

Ion Ratio Lower Upper

56 100

55 72.8 55.0 82.6



#15

Acrylonitrile

Concen: 1.071 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061792.D

Acq: 28 Feb 2019 17:23

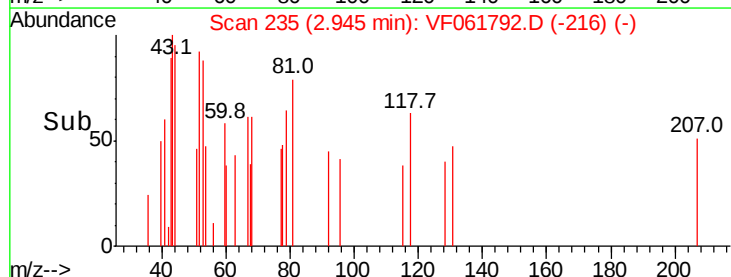
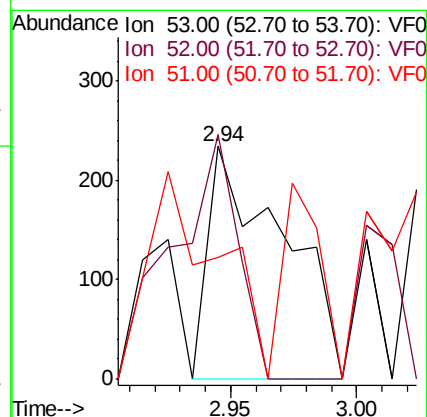
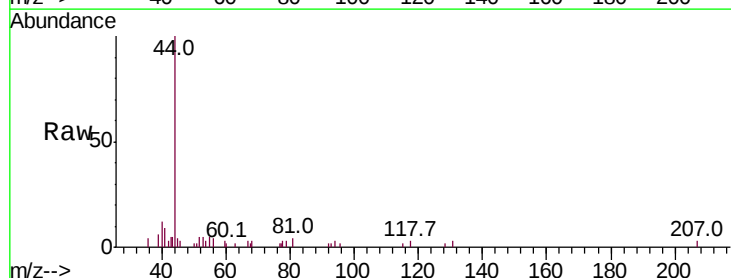
Tgt Ion: 53 Resp: 485

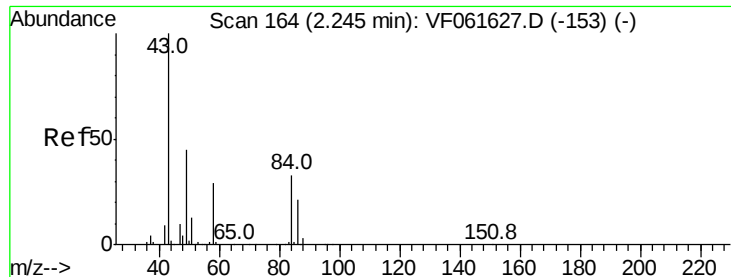
Ion Ratio Lower Upper

53 100

52 105.1 64.6 97.0#

51 52.1 29.8 44.8#





#16

Acetone

Concen: 30.333 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF061792.D

Acq: 28 Feb 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

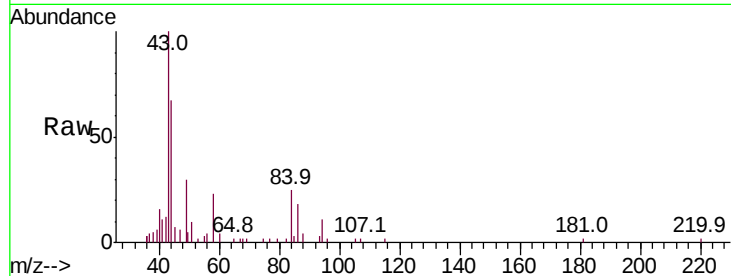
BU-03-022719

Tot Ion: 43 Resp: 14355

Ion Ratio Lower Upper

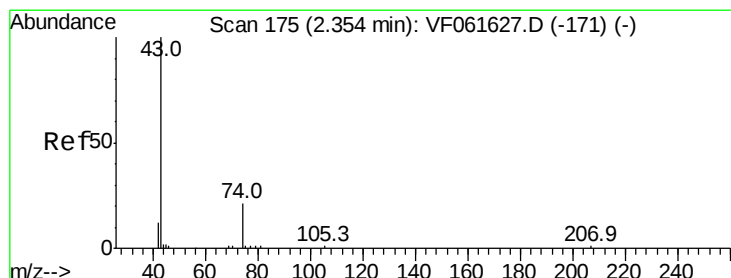
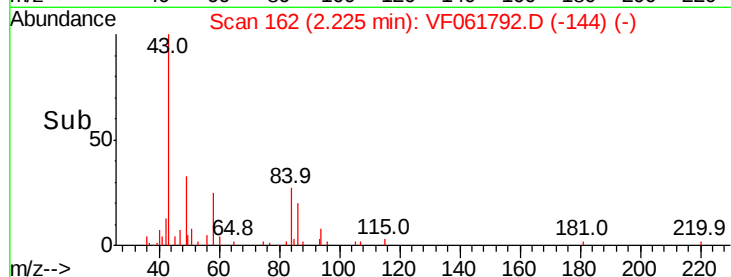
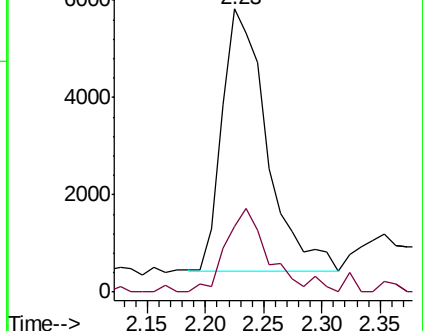
43 100

58 23.1 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 2.750 ug/l

RT: 2.35 min Scan# 175

Delta R.T. -0.00 min

Lab File: VF061792.D

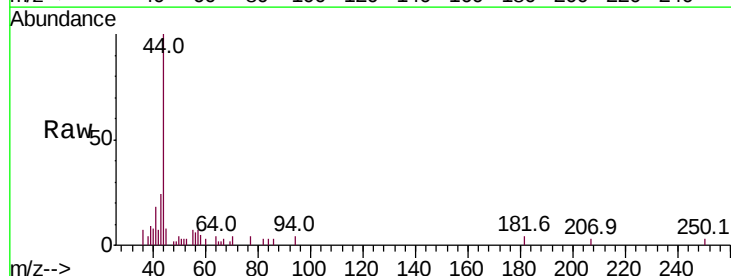
Acq: 28 Feb 2019 17:23

Tgt Ion: 43 Resp: 2932

Ion Ratio Lower Upper

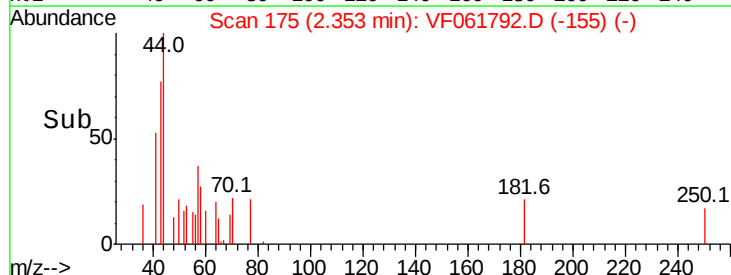
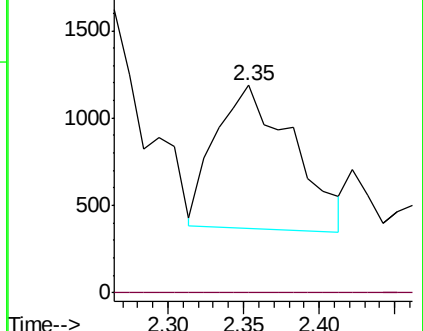
43 100

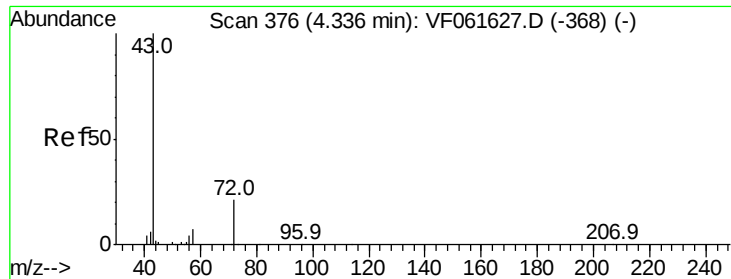
74 0.0 14.6 21.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#25

2-Butanone

Concen: 2.205 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.01 min

Lab File: VF061792.D

Acq: 28 Feb 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

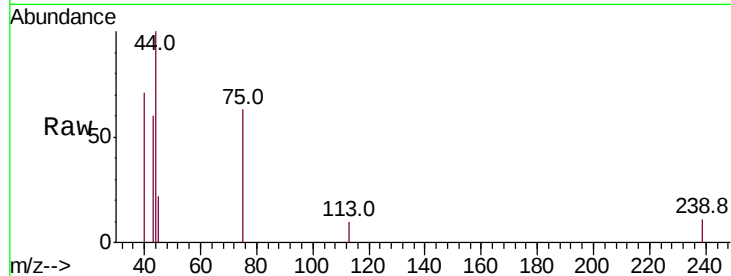
BU-03-022719

Tot Ion: 43 Resp: 2279

Ion Ratio Lower Upper

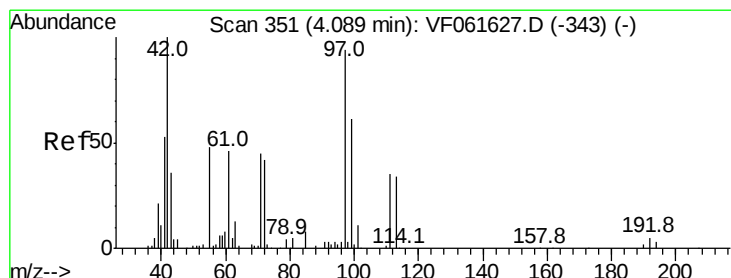
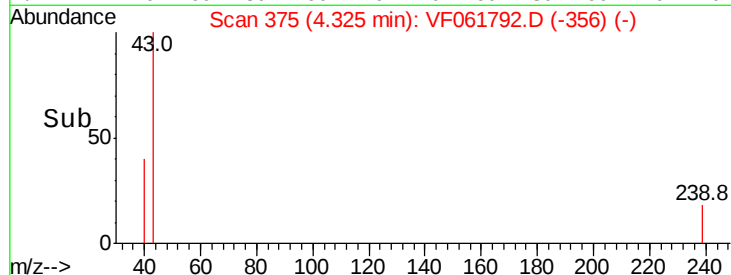
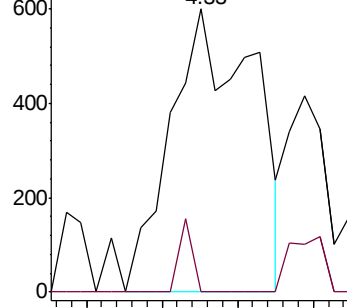
43 100

72 0.0 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 5.325 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.03 min

Lab File: VF061792.D

Acq: 28 Feb 2019 17:23

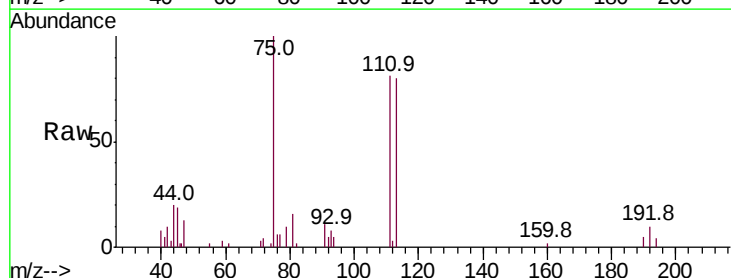
Tgt Ion: 42 Resp: 2502

Ion Ratio Lower Upper

42 100

72 32.5 35.2 52.8#

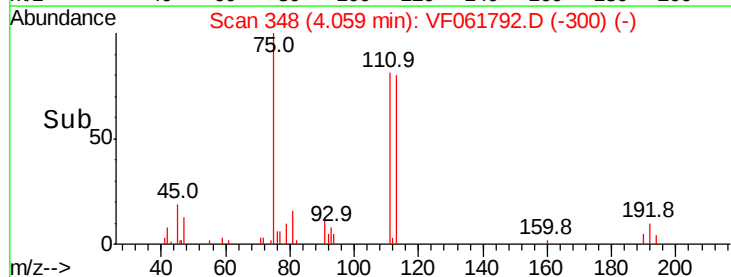
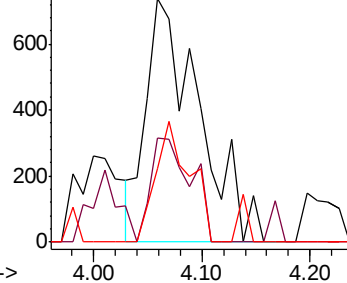
71 32.0 32.9 49.3#

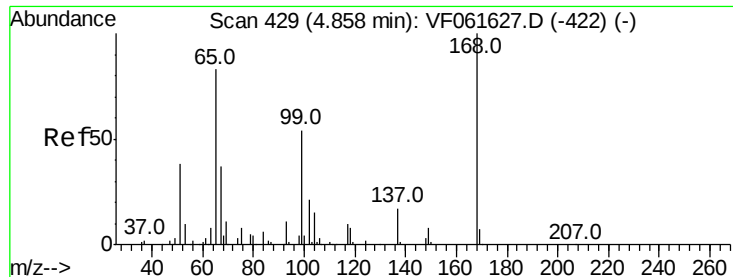


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 57.196 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.03 min

Lab File: VF061792.D

Acq: 28 Feb 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

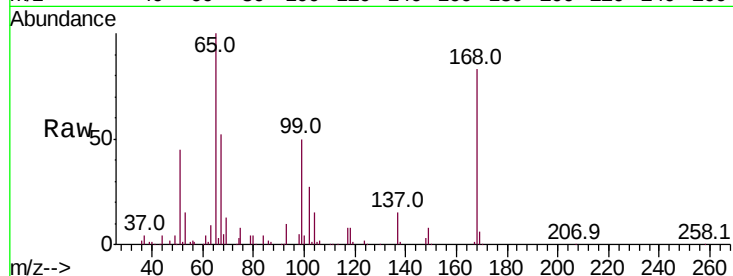
BU-03-022719

Tot Ion: 65 Resp: 126159

Ion Ratio Lower Upper

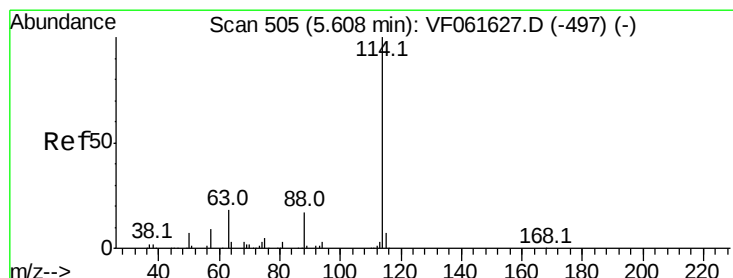
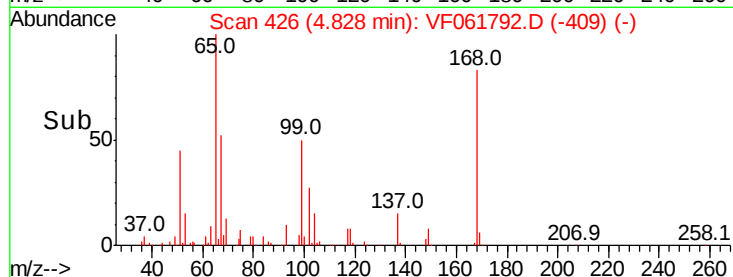
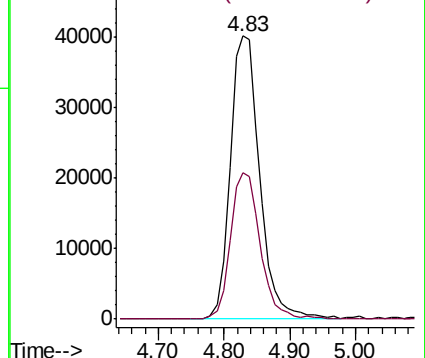
65 100

67 51.9 0.0 104.0



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: 5.58 min Scan# 502

Delta R.T. -0.03 min

Lab File: VF061792.D

Acq: 28 Feb 2019 17:23

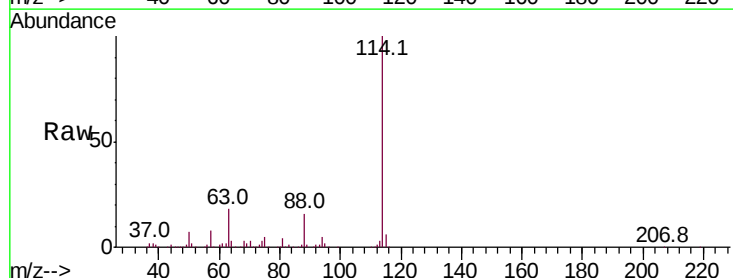
Tgt Ion: 114 Resp: 479052

Ion Ratio Lower Upper

114 100

63 18.0 0.0 36.6

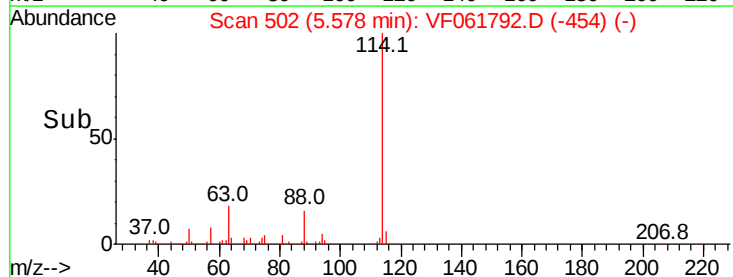
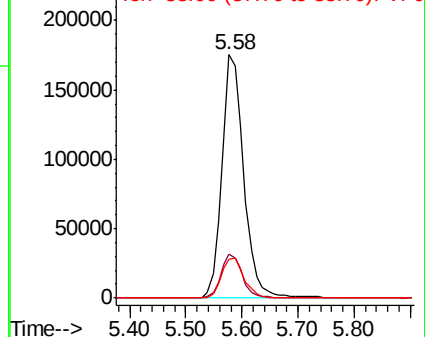
88 16.2 0.0 34.4

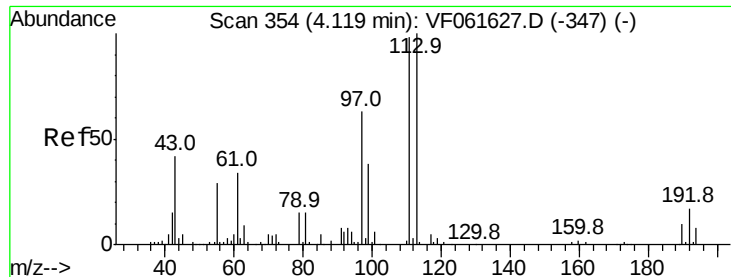


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

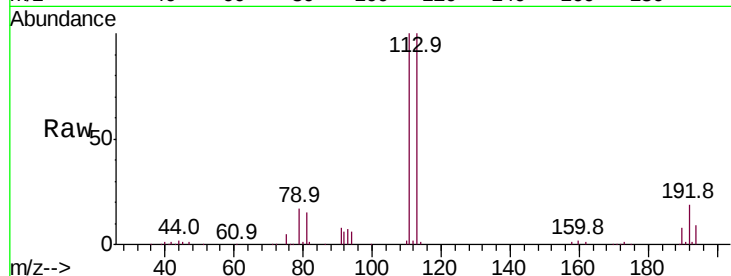




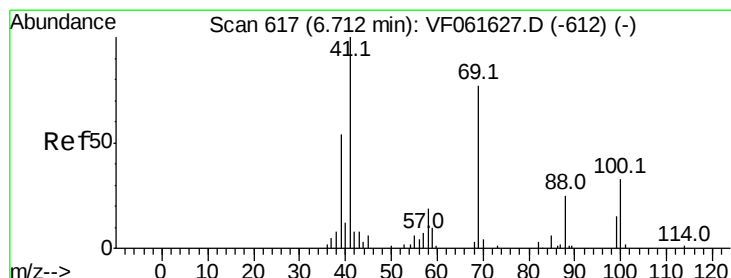
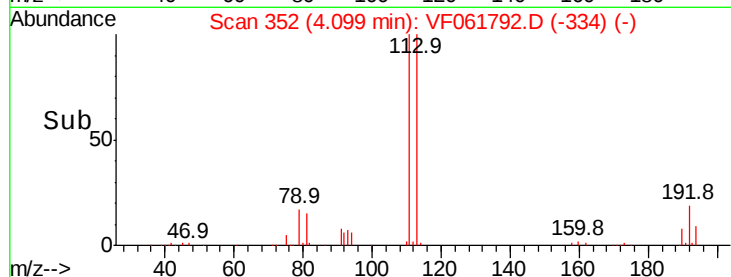
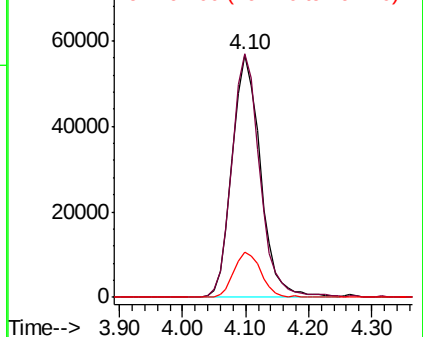
#35
 Dibromofluoromethane
 Concen: 49.863 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.02 min
 Lab File: VF061792.D
 Acq: 28 Feb 2019 17:23

Instrument :
 MSVOA_F
 ClientSampleId :
 BU-03-022719

Tot Ion:113 Resp: 177386
 Ion Ratio Lower Upper
 113 100
 111 100.2 78.8 118.2
 192 18.6 13.4 20.0

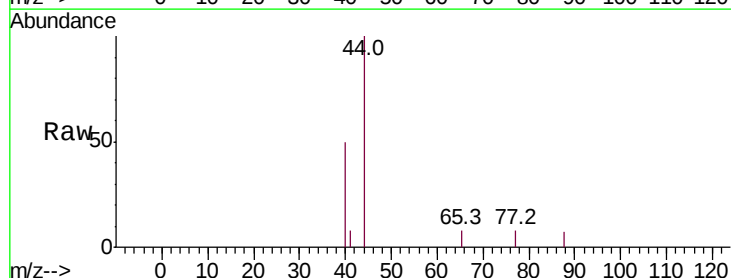


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

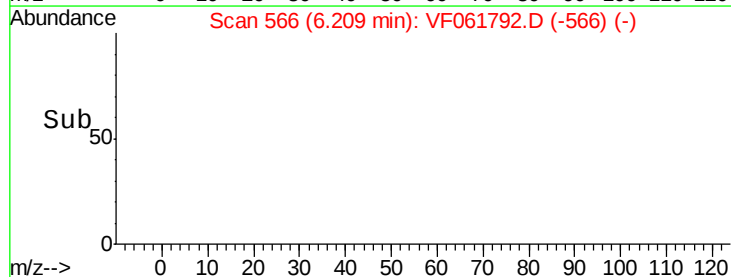
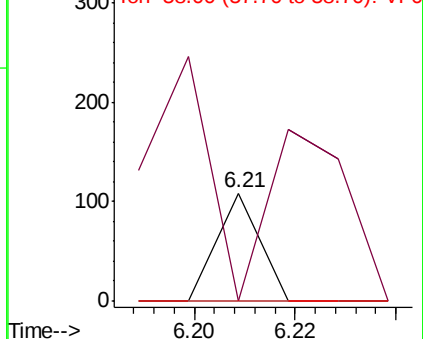


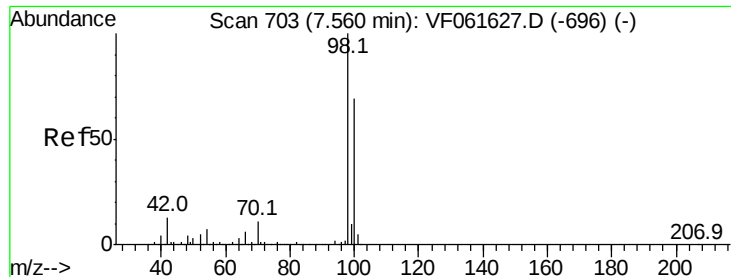
#49
 1,4-Dioxane
 Concen: 4.336 ug/l
 RT: 6.21 min Scan# 566
 Delta R.T. -0.50 min
 Lab File: VF061792.D
 Acq: 28 Feb 2019 17:23

Tgt Ion: 88 Resp: 64
 Ion Ratio Lower Upper
 88 100
 43 0.0 32.3 48.5#
 58 0.0 59.4 89.2#



Abundance Ion 88.00 (87.70 to 88.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 39.276 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061792.D

Acq: 28 Feb 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

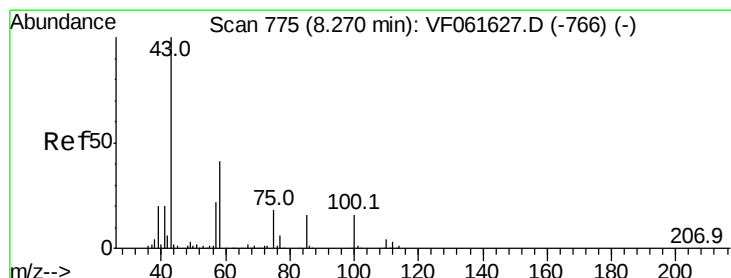
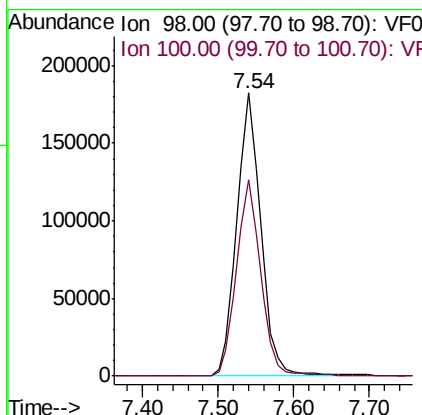
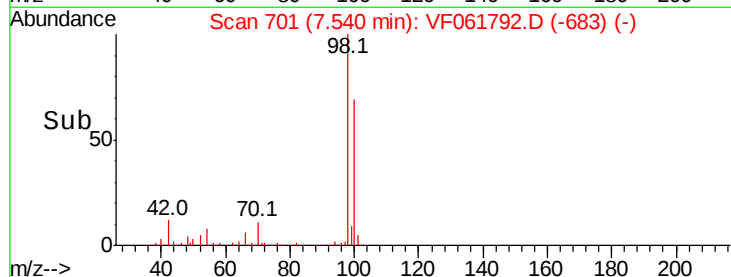
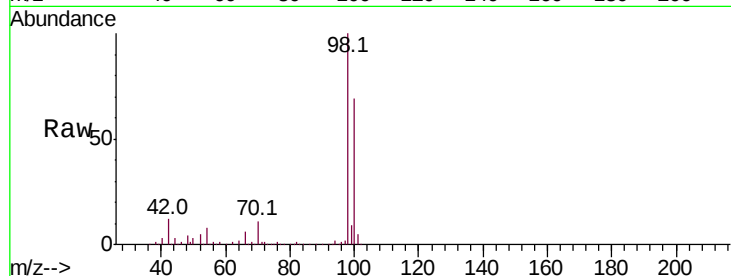
BU-03-022719

Tot Ion: 98 Resp: 401663

Ion Ratio Lower Upper

98 100

100 69.3 55.4 83.2



#51

4-Methyl-2-Pentanone

Concen: 1.154 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061792.D

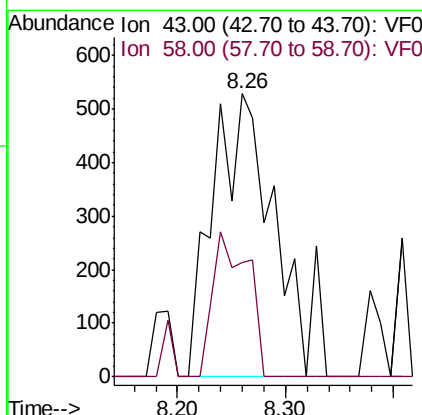
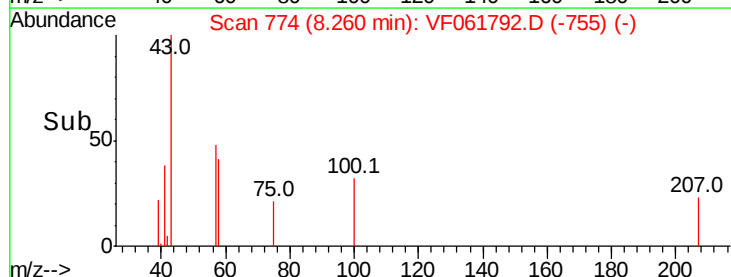
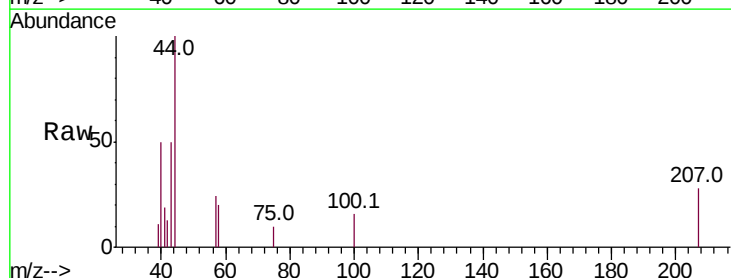
Acq: 28 Feb 2019 17:23

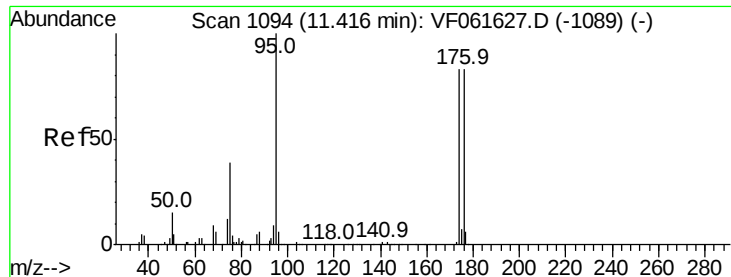
Tgt Ion: 43 Resp: 2152

Ion Ratio Lower Upper

43 100

58 40.5 33.1 49.7





#62

4-Bromofluorobenzene

Concen: 44.520 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061792.D

Acq: 28 Feb 2019 17:23

Instrument :

MSVOA_F

ClientSampled :

BU-03-022719

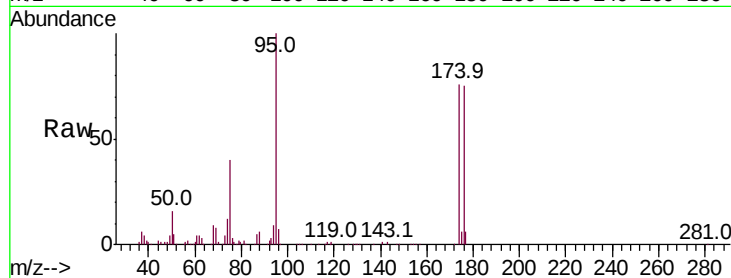
Tot Ion: 95 Resp: 184221

Ion Ratio Lower Upper

95 100

174 75.9 0.0 165.8

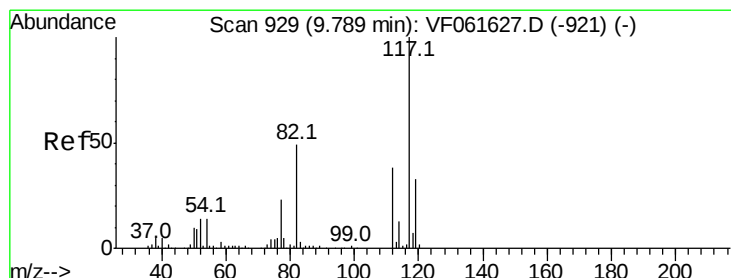
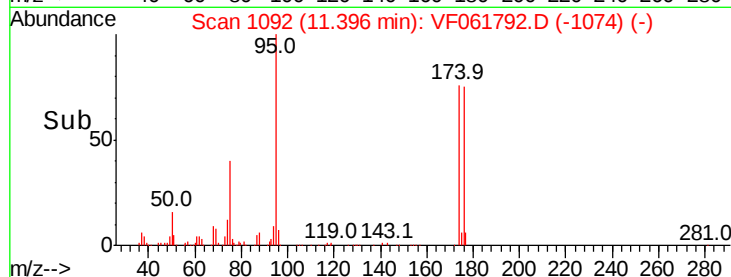
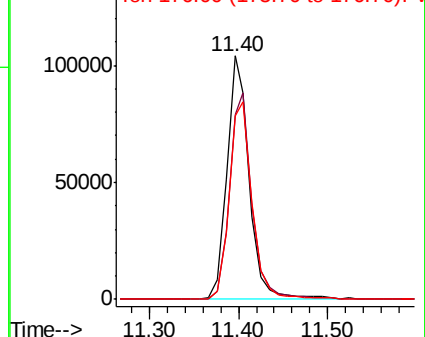
176 75.4 0.0 167.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.03 min

Lab File: VF061792.D

Acq: 28 Feb 2019 17:23

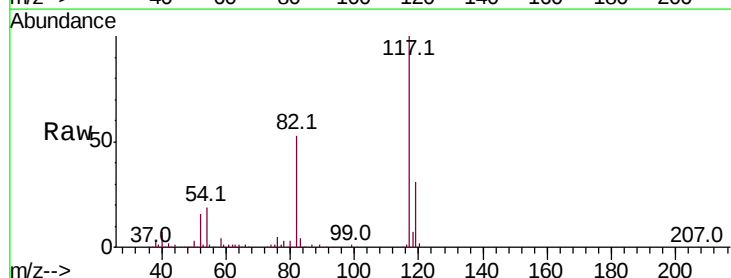
Tgt Ion: 117 Resp: 390710

Ion Ratio Lower Upper

117 100

82 53.2 39.3 58.9

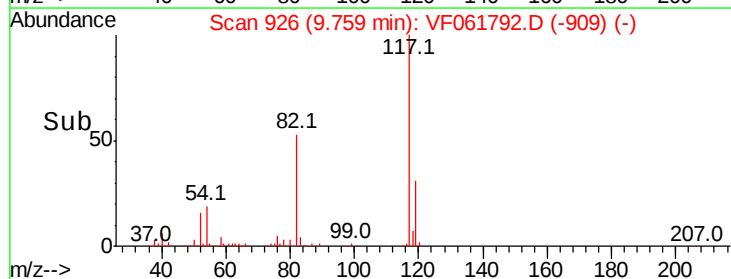
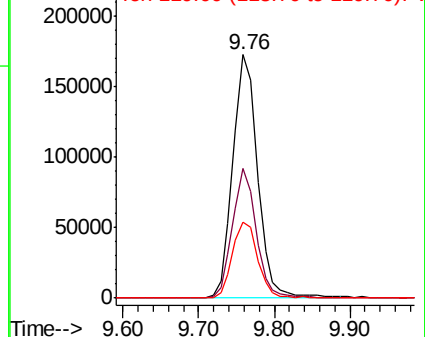
119 31.0 26.6 40.0

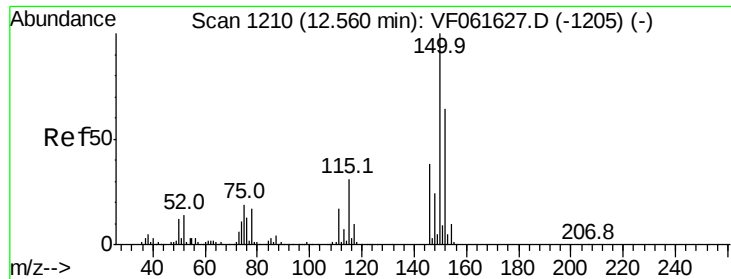


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): 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: VF061792.D

Acq: 28 Feb 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

BU-03-022719

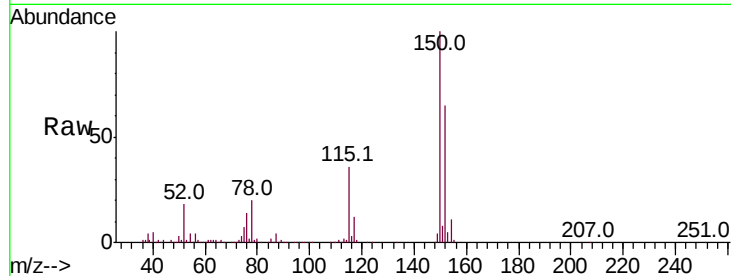
Tot Ion:152 Resp: 208169

Ion Ratio Lower Upper

152 100

115 55.0 24.3 72.8

150 153.4 0.0 312.0



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

