

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021219\
 Data File : VF061609.D
 Acq On : 12 Feb 2019 15:21
 Operator : VA/AP
 Sample : K1343-05
 Misc : 7.34g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-C

Quant Time: Feb 13 02:49:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	32006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	44016	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	28822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	8738	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	7540	19.08	ug/l	0.00
Spiked Amount			Recovery	=	38.16%	
35) Dibromofluoromethane	4.10	113	11477	33.04	ug/l	0.00
Spiked Amount			Recovery	=	66.08%	
50) Toluene-d8	7.55	98	35009	36.79	ug/l	0.00
Spiked Amount			Recovery	=	73.58%	
62) 4-Bromofluorobenzene	11.40	95	10656	23.97	ug/l	0.00
Spiked Amount			Recovery	=	47.94%	

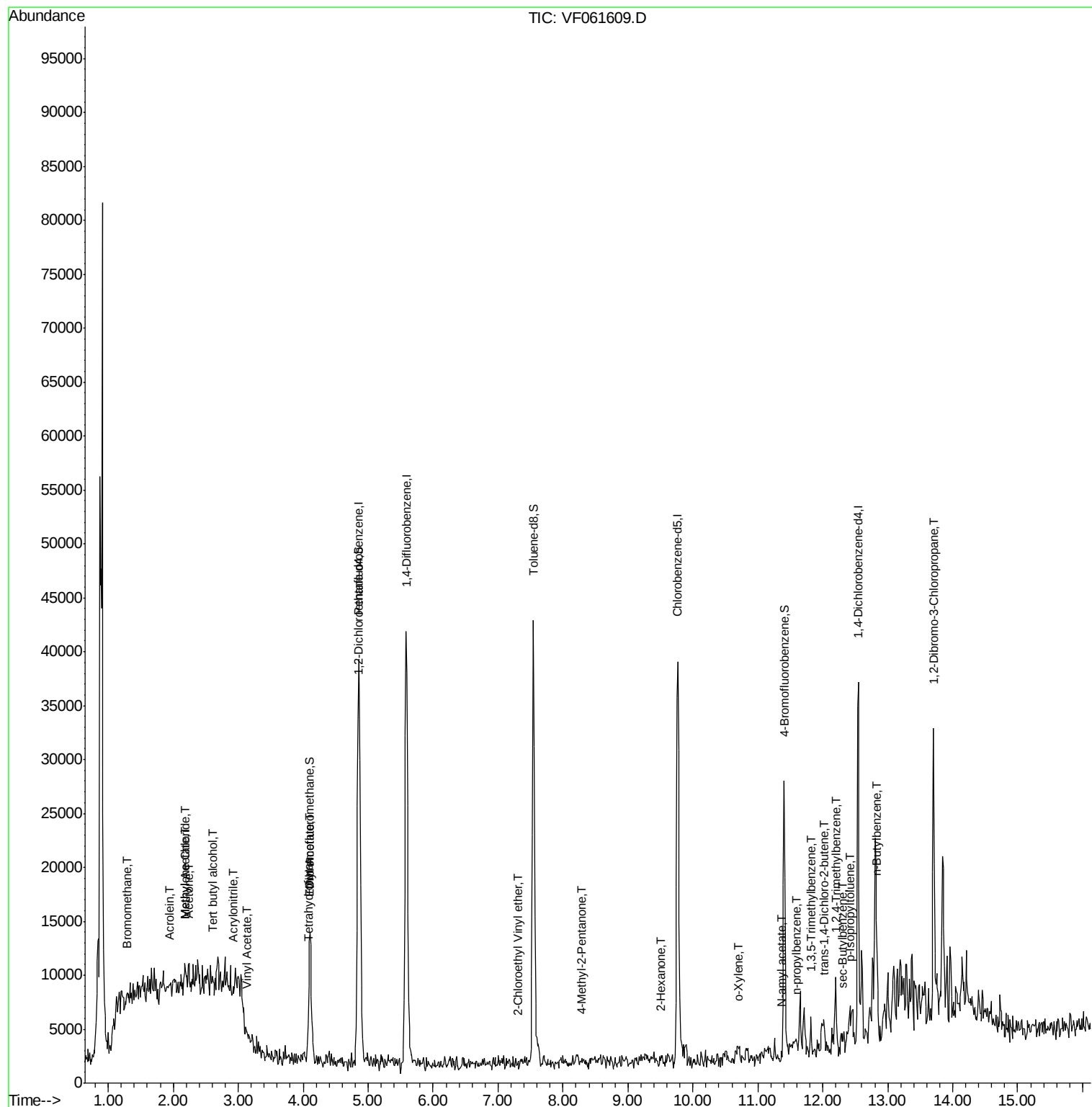
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.28	94	867	3.241	ug/l #	2
11) Tert butyl alcohol	2.62	59	66	3.946	ug/l #	1
13) Acrolein	1.93	56	208	24.177	ug/l	96
14) Allyl chloride	2.08	41	311	Below Cal	#	58
15) Acrylonitrile	2.91	53	111	2.591	ug/l #	3
16) Acetone	2.23	43	1207	15.226	ug/l #	30
18) Methyl Acetate	2.18	43	307	1.953	ug/l	99
20) Methylene Chloride	2.18	84	981	1.957	ug/l #	67
23) Vinyl Acetate	3.15	43	992	5.392	ug/l #	78
29) Tetrahydrofuran	4.08	42	187	3.294	ug/l #	38
37) Ethyl Acetate	4.08	43	220	1.078	ug/l #	5
49) 1,4-Dioxane	7.06	88	68	Below Cal	#	28
51) 4-Methyl-2-Pentanone	8.28	43	443	2.354	ug/l #	39
58) 2-Chloroethyl Vinyl ether	7.30	63	61	29.613	ug/l #	47
59) 2-Hexanone	9.51	43	240	1.829	ug/l #	26
69) o-Xylene	10.70	106	614	1.471	ug/l	94
74) N-amyl acetate	11.36	43	189	1.125	ug/l #	47
78) n-propylbenzene	11.59	91	1419	1.679	ug/l #	54
80) 1,3,5-Trimethylbenzene	11.82	105	1793	3.126	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.02	75	99	2.503	ug/l #	19
84) 1,2,4-Trimethylbenzene	12.19	105	1594	2.698	ug/l	78
85) sec-Butylbenzene	12.30	105	908	1.126	ug/l #	56
86) p-Isopropyltoluene	12.42	119	1600	2.418	ug/l	95
89) n-Butylbenzene	12.83	91	1797	2.633	ug/l	80
92) 1,2-Dibromo-3-Chloropropan	13.69	75	65	2.895	ug/l #	1

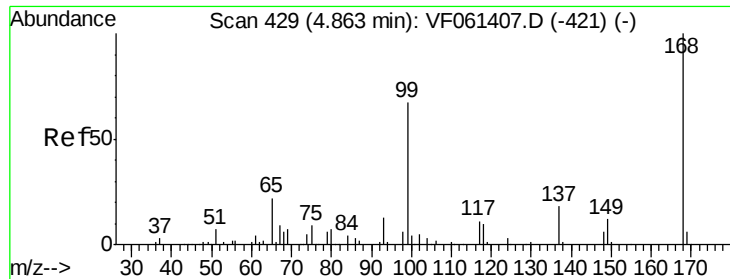
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF021219\
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Quant Time: Feb 13 02:49:11 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.00 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Instrument :

MSVOA_F

ClientSampleId :

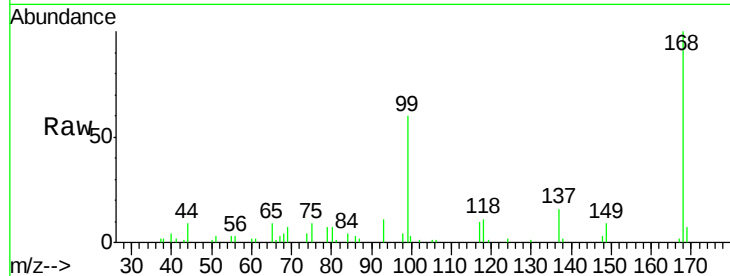
JC-02-021119-C

Tot Ion:168 Resp: 32006

Ion Ratio Lower Upper

168 100

99 59.9 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

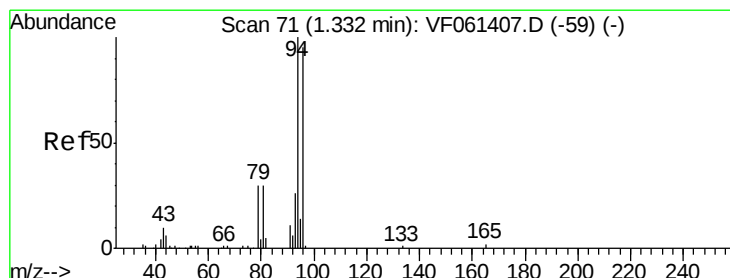
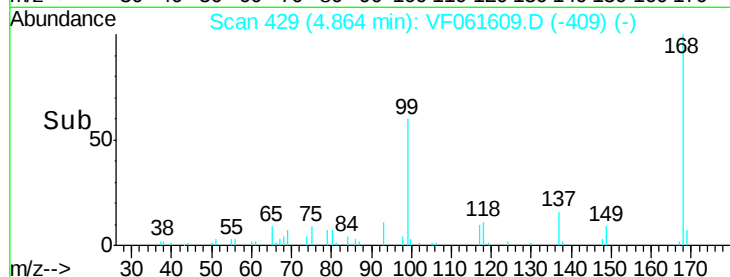
4.86

10000

5000

0

Time-->



#5

Bromomethane

Concen: 3.241 ug/l

RT: 1.28 min Scan# 66

Delta R.T. -0.05 min

Lab File: VF061609.D

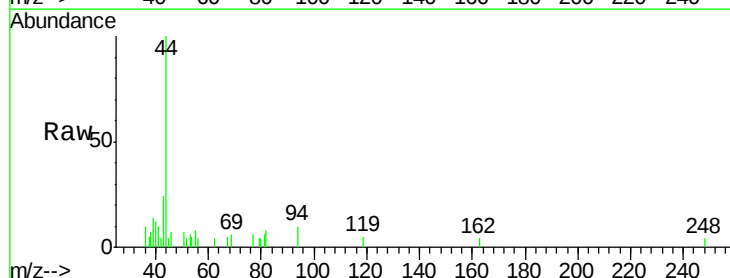
Acq: 12 Feb 2019 15:21

Tgt Ion: 94 Resp: 867

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.28

300

250

200

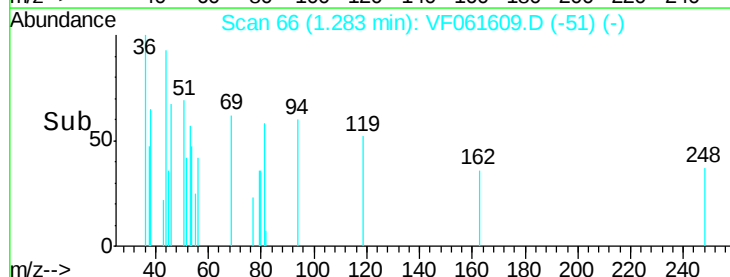
150

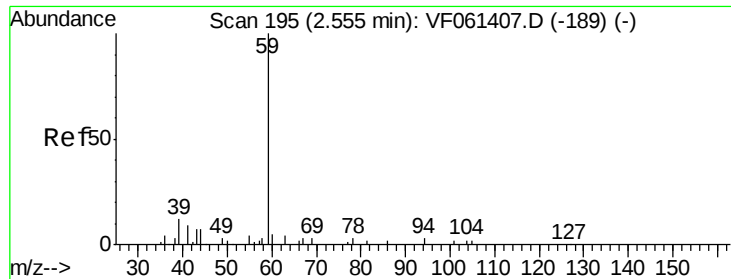
100

50

0

Time-->



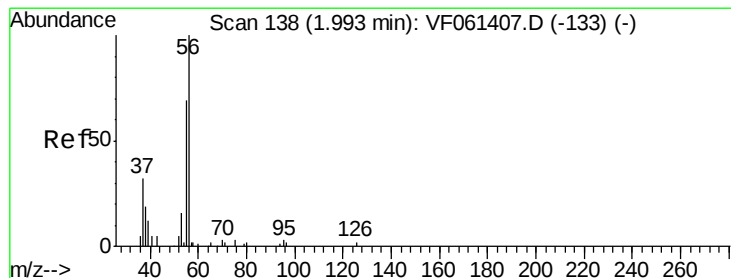
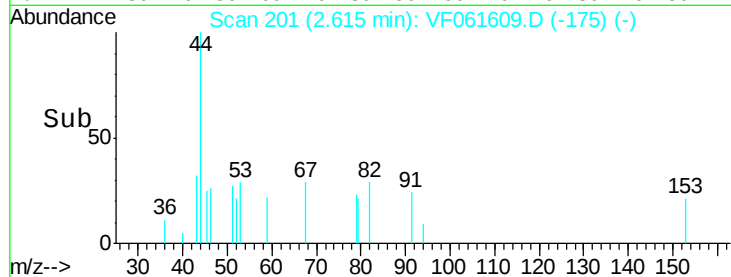
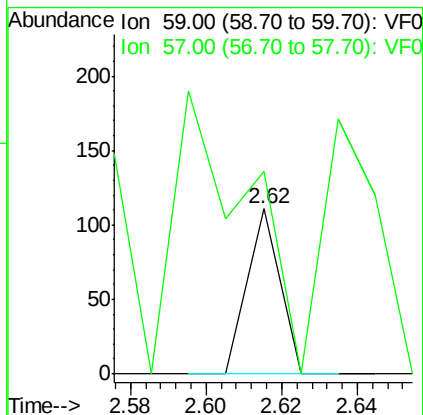
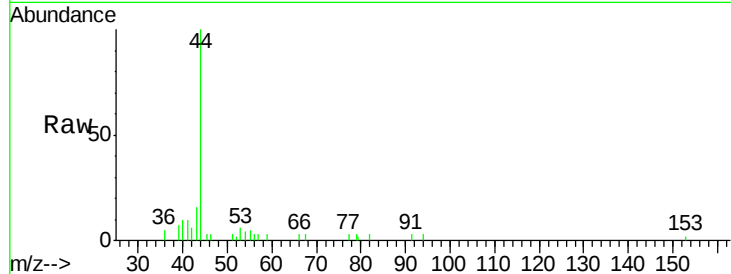


#11

Tert butyl alcohol
 Concen: 3.946 ug/l
 RT: 2.62 min Scan# 201
 Delta R.T. 0.06 min
 Lab File: VF061609.D
 Acq: 12 Feb 2019 15:21

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-C

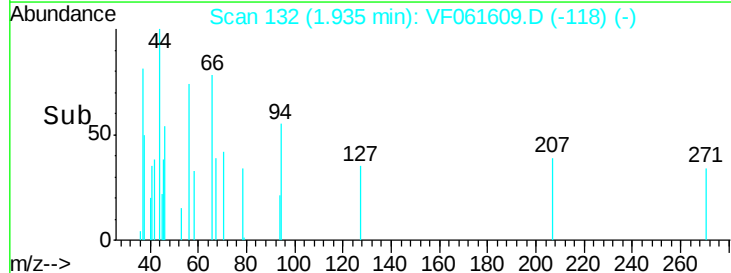
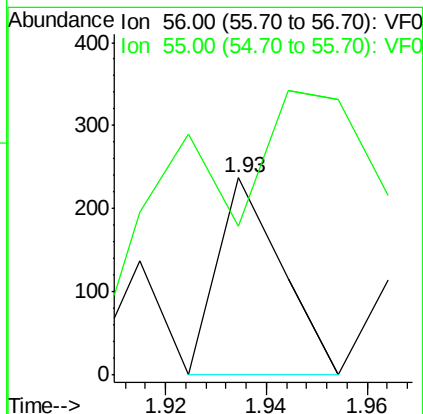
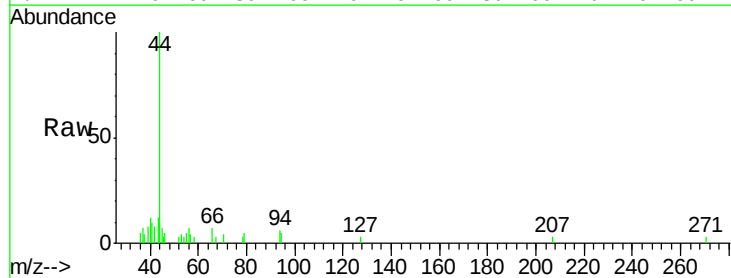
Tot Ion: 59 Resp: 66
 Ion Ratio Lower Upper
 59 100
 57 122.5 11.9 17.9#

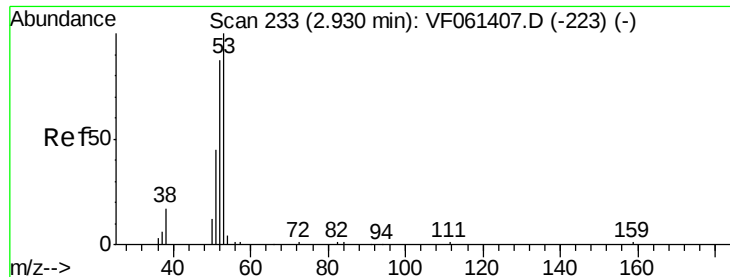


#13

Acrolein
 Concen: 24.177 ug/l
 RT: 1.93 min Scan# 132
 Delta R.T. -0.06 min
 Lab File: VF061609.D
 Acq: 12 Feb 2019 15:21

Tgt Ion: 56 Resp: 208
 Ion Ratio Lower Upper
 56 100
 55 75.5 57.5 86.3





#15

Acrylonitrile

Concen: 2.591 ug/l

RT: 2.91 min Scan# 231

Delta R.T. -0.02 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-C

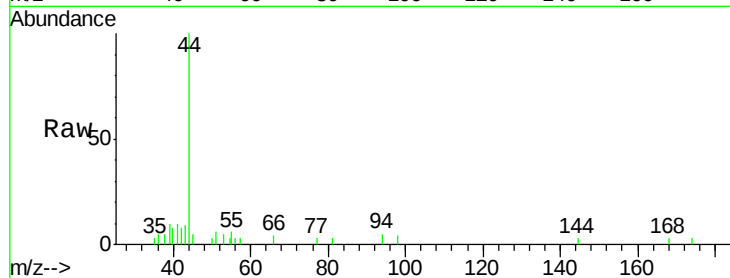
Tot Ion: 53 Resp: 111

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

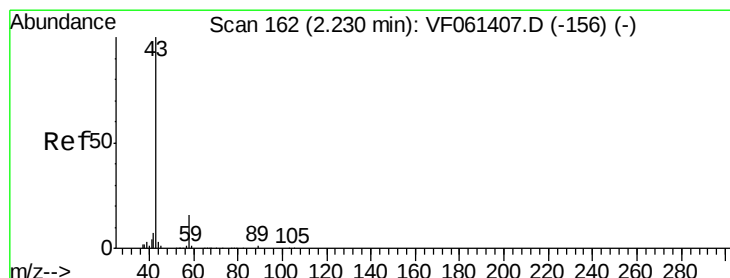
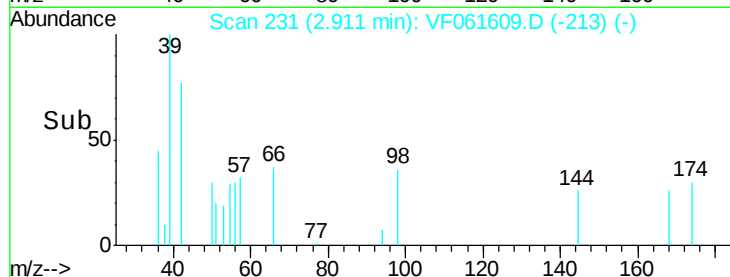
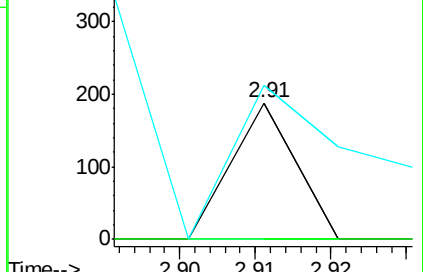
51 113.3 36.8 55.2#



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



#16

Acetone

Concen: 15.226 ug/l

RT: 2.23 min Scan# 162

Delta R.T. 0.00 min

Lab File: VF061609.D

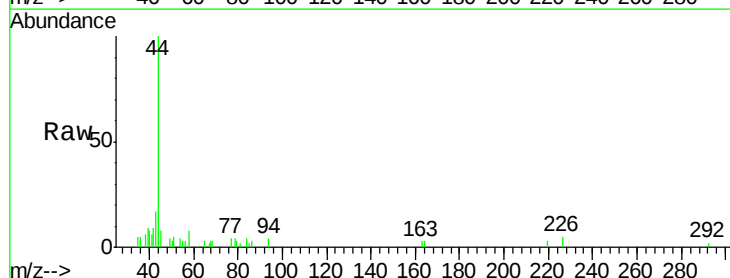
Acq: 12 Feb 2019 15:21

Tgt Ion: 43 Resp: 1207

Ion Ratio Lower Upper

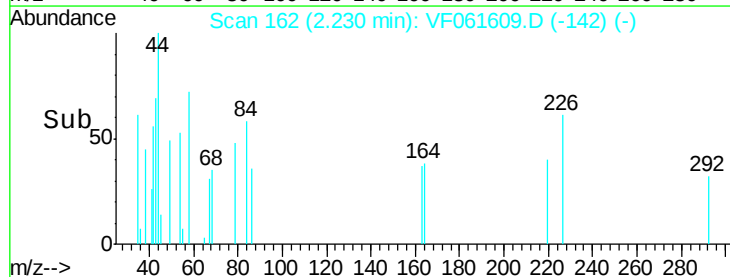
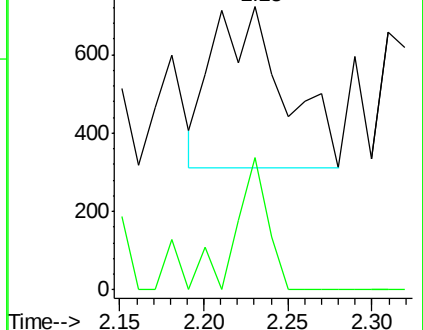
43 100

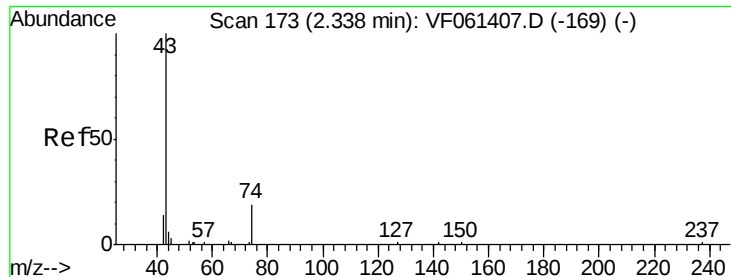
58 46.5 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

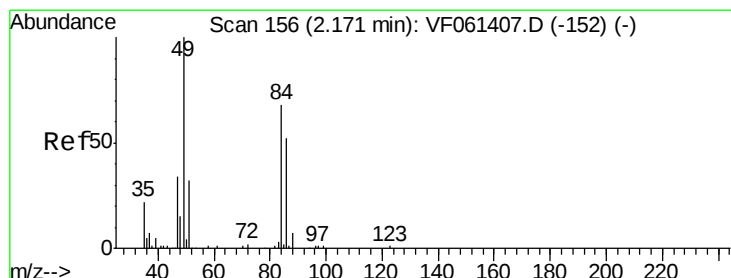
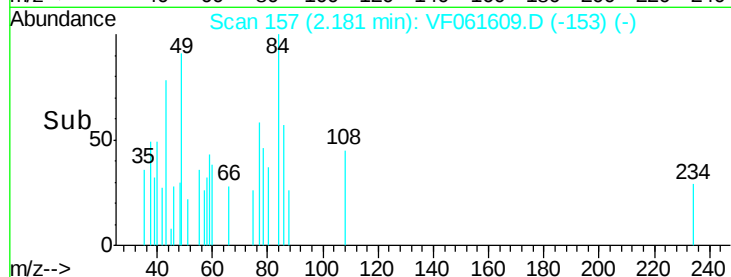
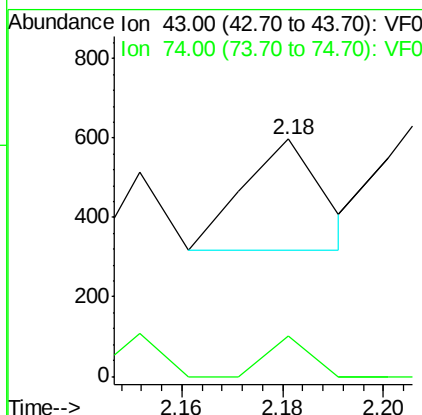
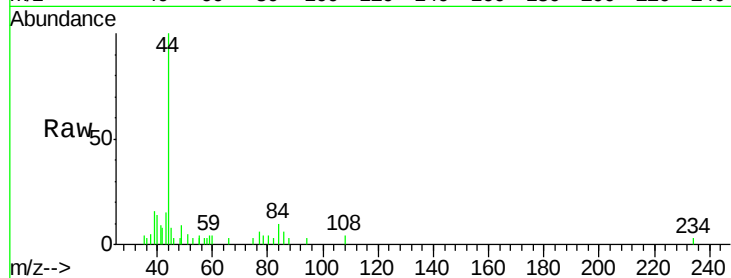




#18
Methyl Acetate
Concen: 1.953 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.16 min
Lab File: VF061609.D
Acq: 12 Feb 2019 15:21

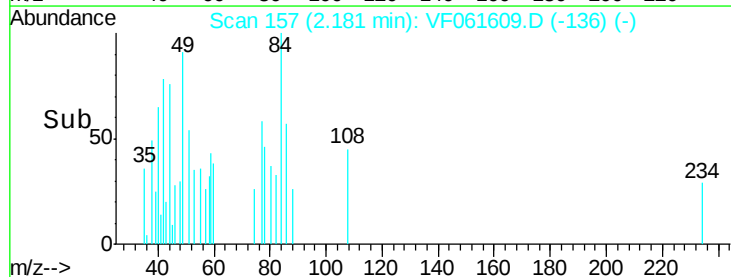
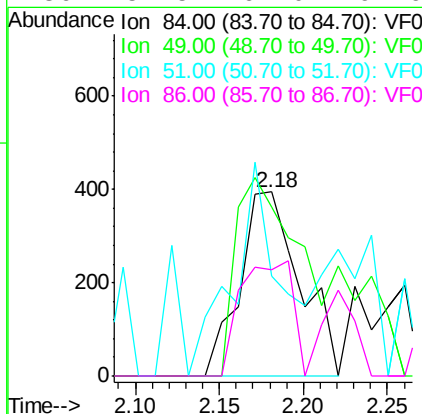
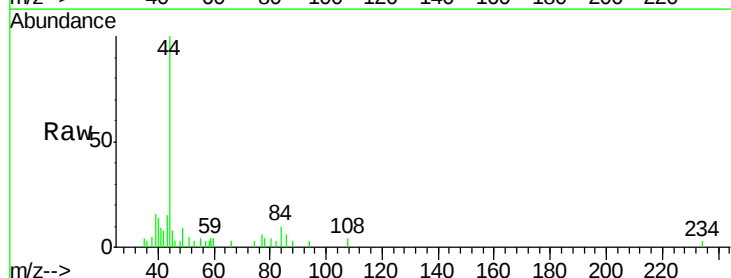
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-C

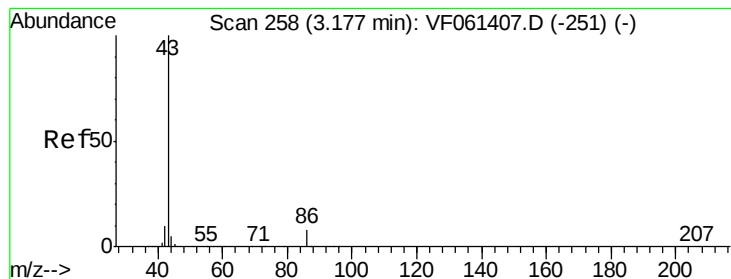
Tot Ion: 43 Resp: 307
Ion Ratio Lower Upper
43 100
74 17.1 13.4 20.0



#20
Methylene Chloride
Concen: 1.957 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061609.D
Acq: 12 Feb 2019 15:21

Tgt Ion: 84 Resp: 981
Ion Ratio Lower Upper
84 100
49 91.4 120.0 180.0#
51 54.4 38.6 58.0
86 57.5 61.0 91.6#





#23

Vinyl Acetate

Concen: 5.392 ug/l

RT: 3.15 min Scan# 255

Delta R.T. -0.03 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Instrument :

MSVOA_F

ClientSampleId :

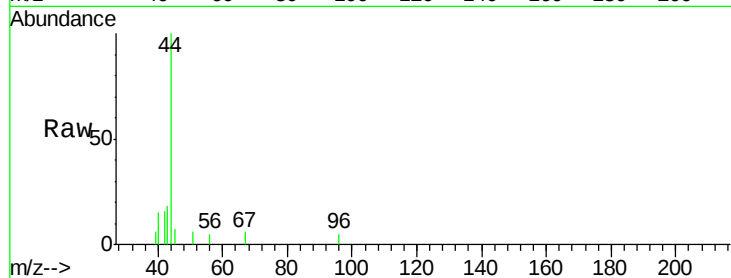
JC-02-021119-C

Tot Ion: 43 Resp: 992

Ion Ratio Lower Upper

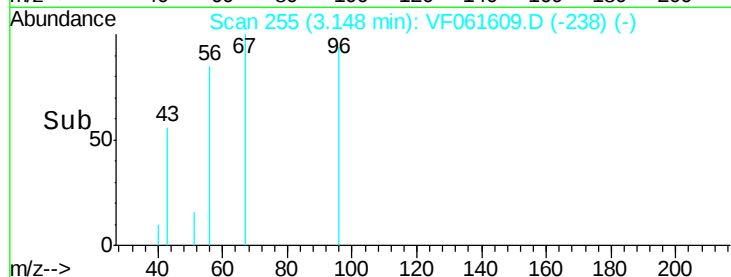
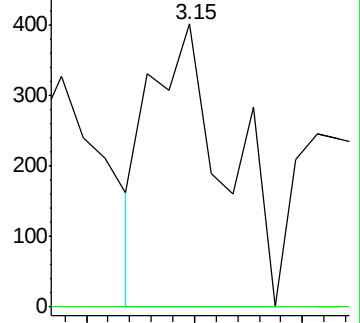
43 100

86 0.0 6.2 9.4#

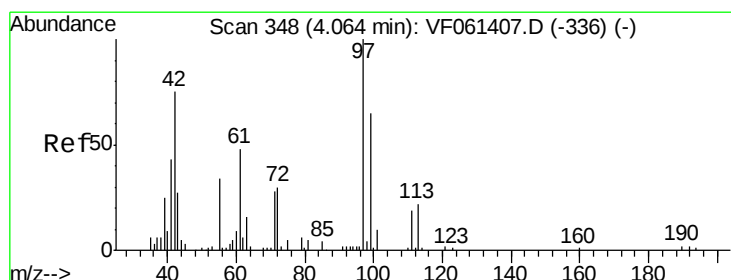


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#29

Tetrahydrofuran

Concen: 3.294 ug/l

RT: 4.08 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

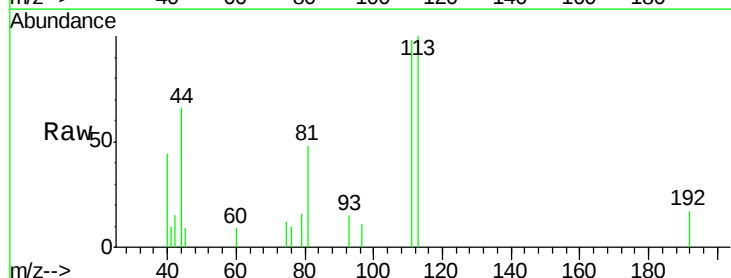
Tgt Ion: 42 Resp: 187

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

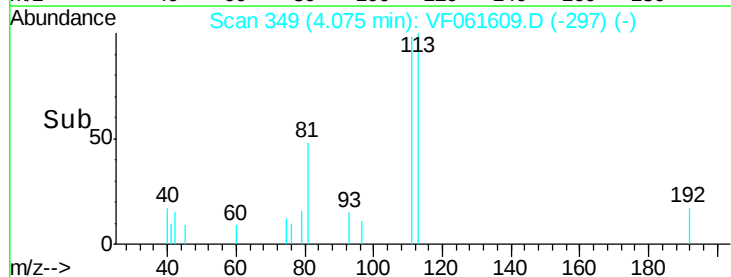
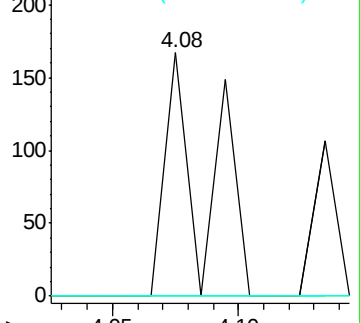
71 0.0 29.6 44.4#



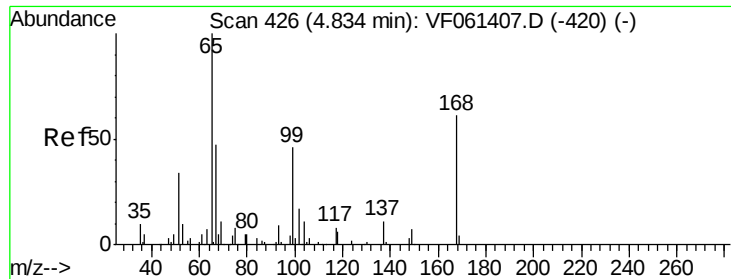
Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 19.081 ug/l

RT: 4.83 min Scan# 426

Delta R.T. 0.00 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Instrument :

MSVOA_F

ClientSampleId :

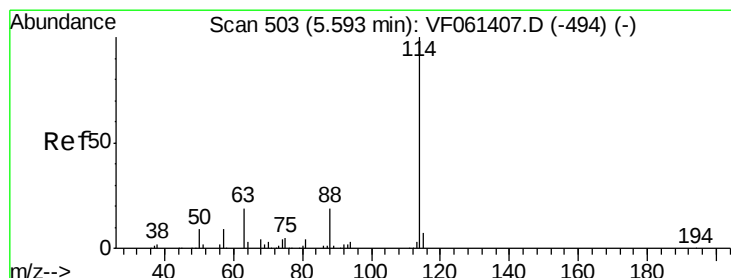
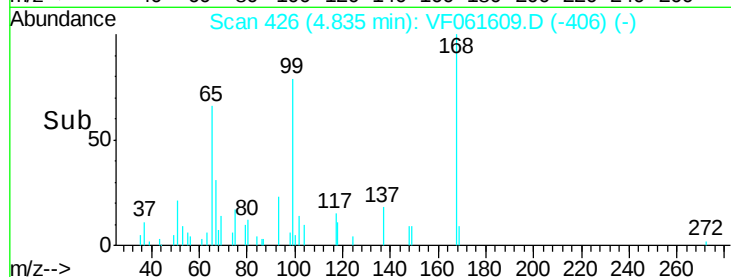
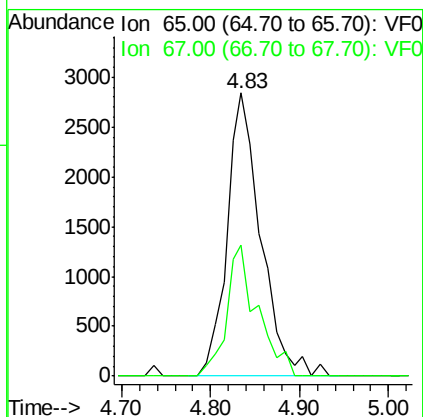
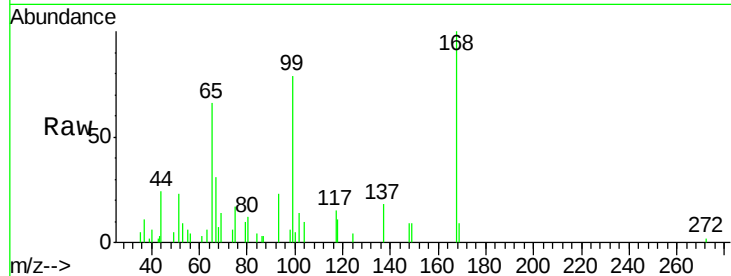
JC-02-021119-C

Tot Ion: 65 Resp: 7540

Ion Ratio Lower Upper

65 100

67 46.1 0.0 99.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

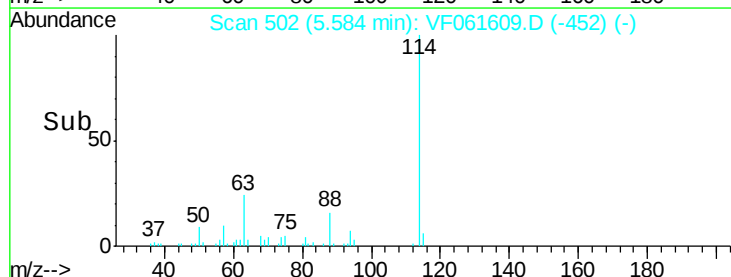
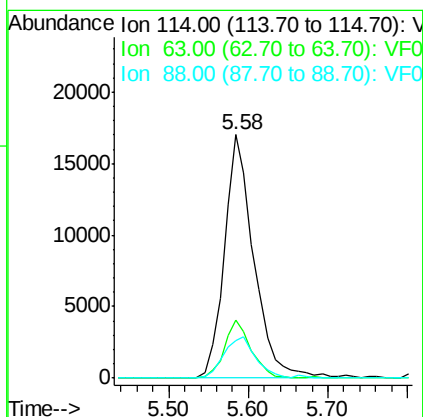
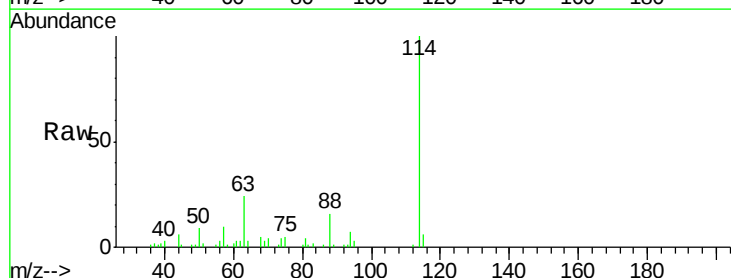
Tgt Ion: 114 Resp: 44016

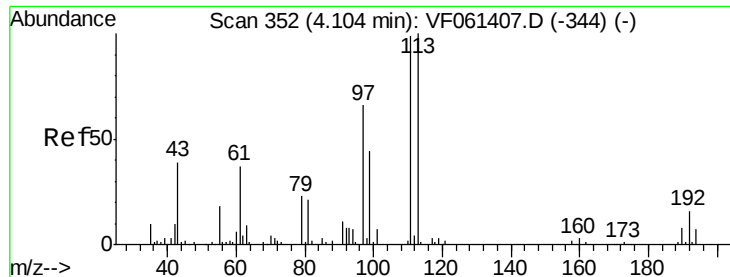
Ion Ratio Lower Upper

114 100

63 23.7 0.0 39.0

88 15.5 0.0 37.4

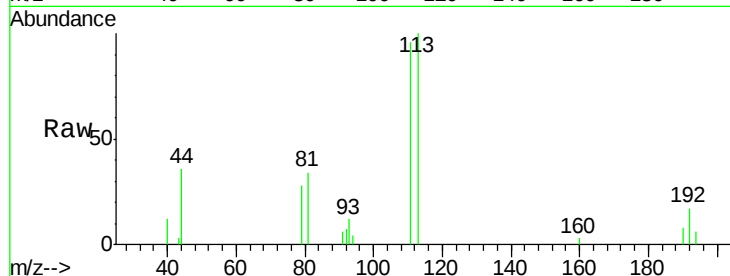




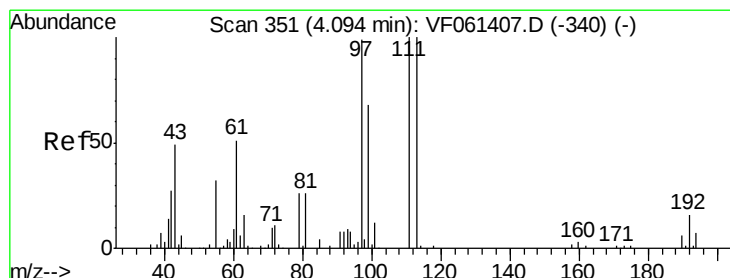
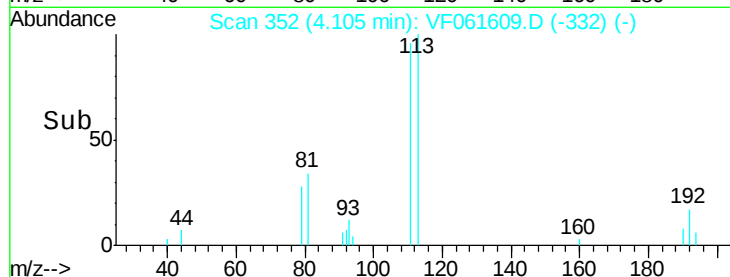
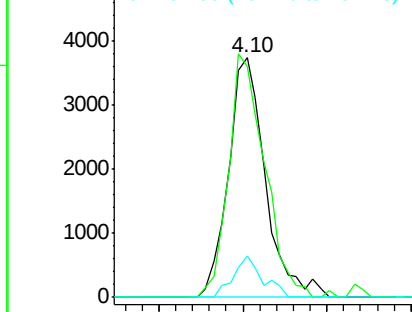
#35
Dibromofluoromethane
Concen: 33.044 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.00 min
Lab File: VF061609.D
Acq: 12 Feb 2019 15:21

Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-C

Tot Ion:113 Resp: 11477
Ion Ratio Lower Upper
113 100
111 96.4 79.4 119.0
192 17.0 12.4 18.6

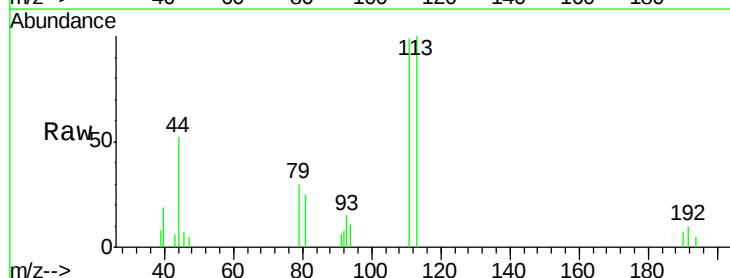


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

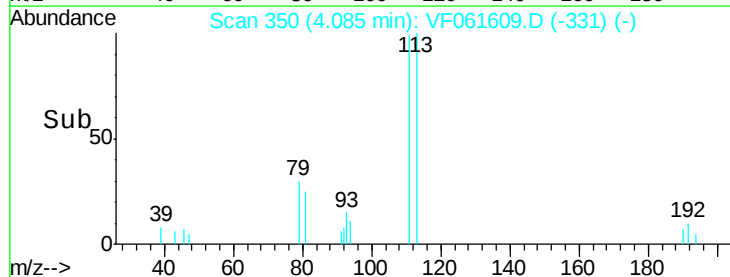
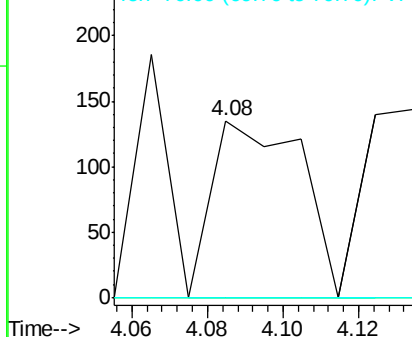


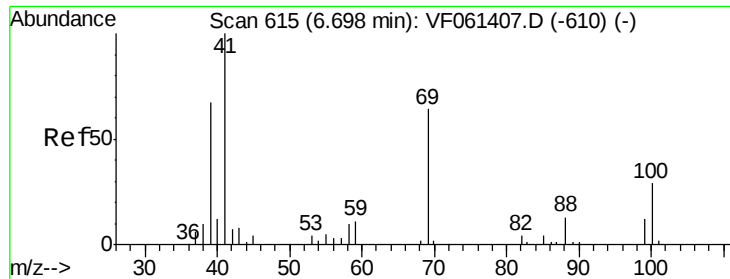
#37
Ethyl Acetate
Concen: 1.078 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.01 min
Lab File: VF061609.D
Acq: 12 Feb 2019 15:21

Tgt Ion: 43 Resp: 220
Ion Ratio Lower Upper
43 100
61 0.0 81.7 122.5#
70 0.0 6.2 9.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

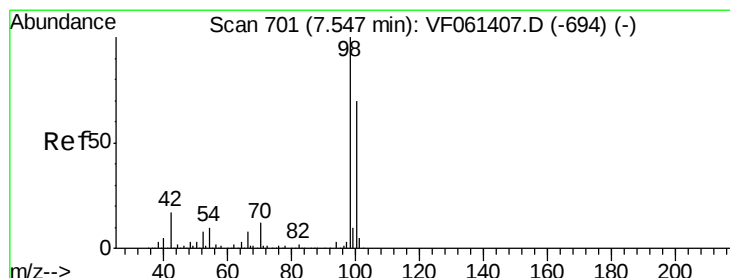
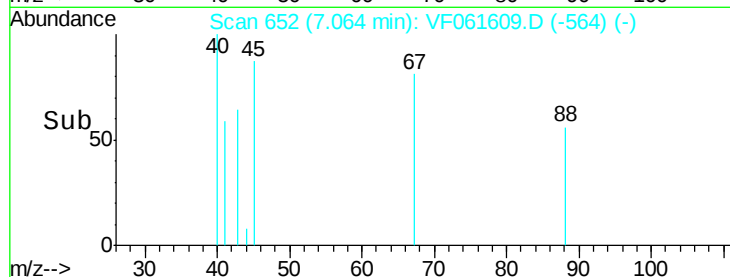
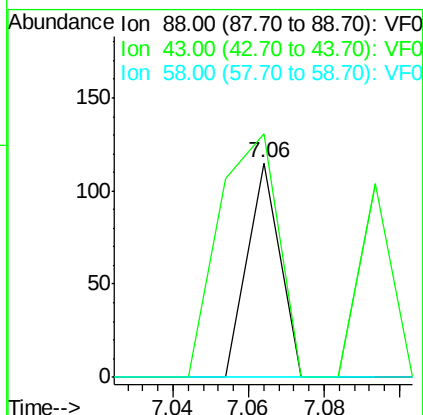
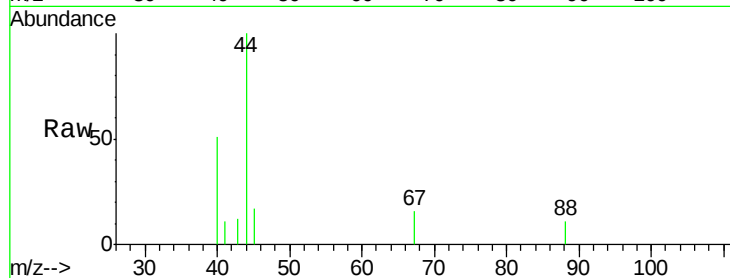




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.06 min Scan# 652
Delta R.T. 0.37 min
Lab File: VF061609.D
Acq: 12 Feb 2019 15:21

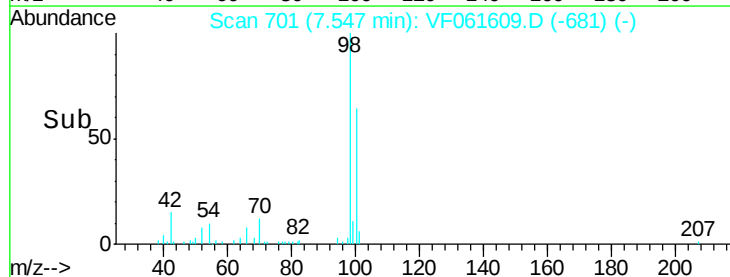
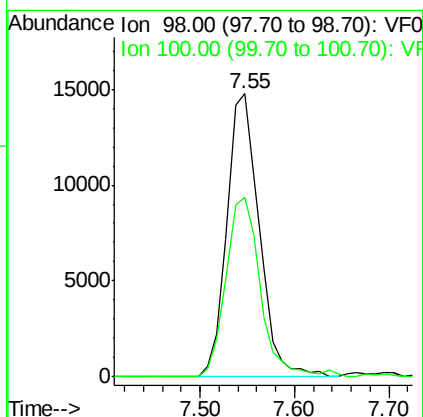
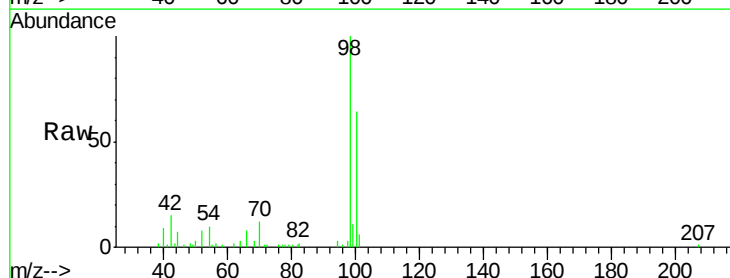
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-C

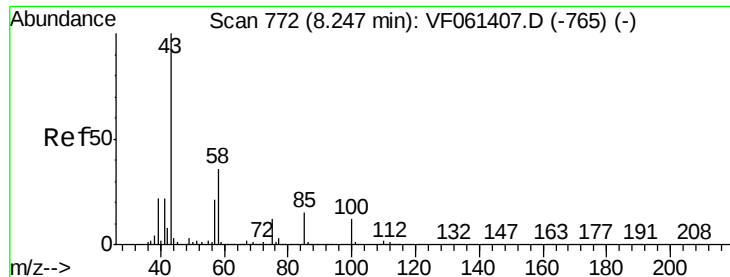
Tot Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 113.9 55.5 83.3#
58 0.0 59.9 89.9#



#50
Toluene-d8
Concen: 36.789 ug/l
RT: 7.55 min Scan# 701
Delta R.T. 0.00 min
Lab File: VF061609.D
Acq: 12 Feb 2019 15:21

Tgt Ion: 98 Resp: 35009
Ion Ratio Lower Upper
98 100
100 63.7 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 2.354 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.03 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Instrument :

MSVOA_F

ClientSampleId :

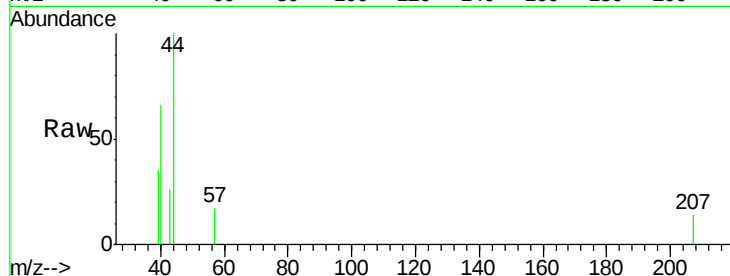
JC-02-021119-C

Tot Ion: 43 Resp: 443

Ion Ratio Lower Upper

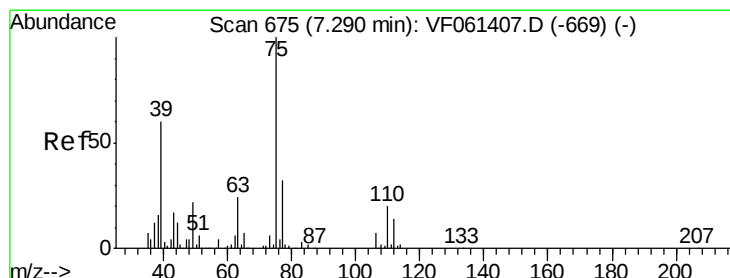
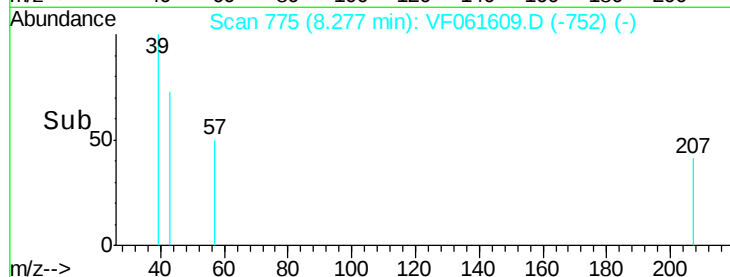
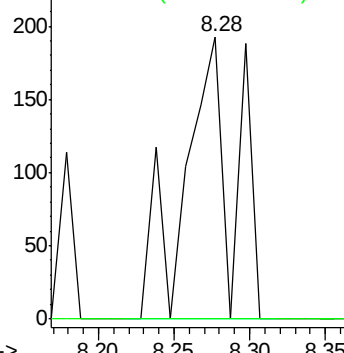
43 100

58 0.0 28.8 43.2#



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: 29.613 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061609.D

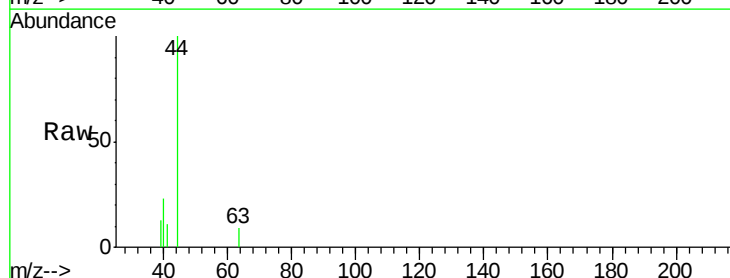
Acq: 12 Feb 2019 15:21

Tgt Ion: 63 Resp: 61

Ion Ratio Lower Upper

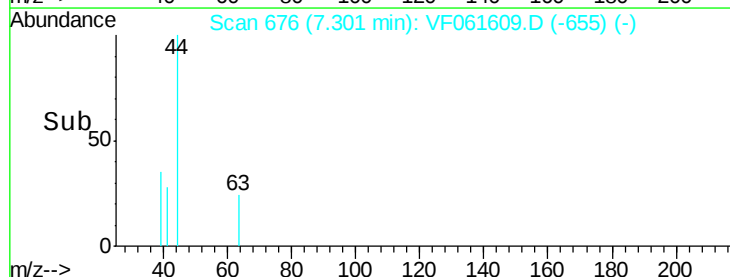
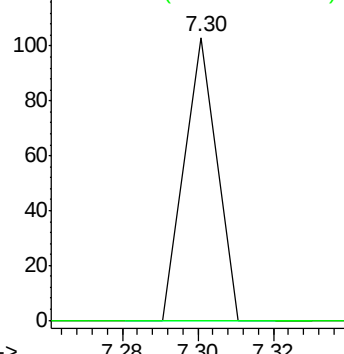
63 100

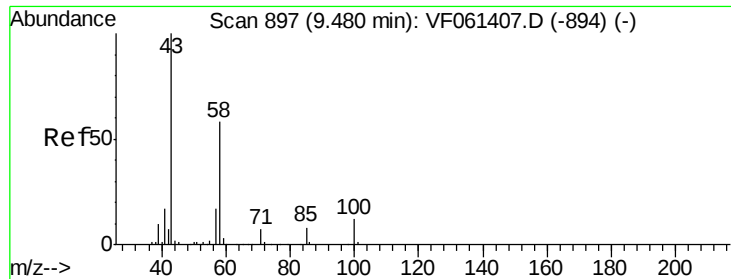
106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#59

2-Hexanone

Concen: 1.829 ug/l

RT: 9.51 min Scan# 900

Delta R.T. 0.03 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Instrument :

MSVOA_F

ClientSampleId :

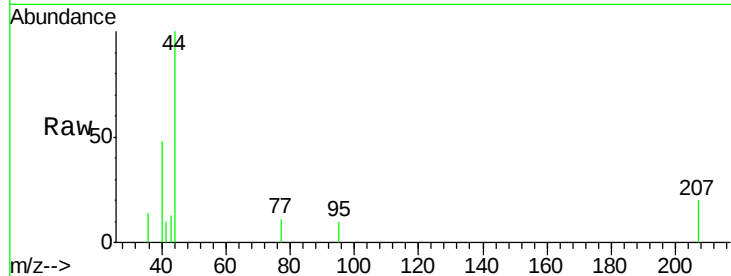
JC-02-021119-C

Tot Ion: 43 Resp: 240

Ion Ratio Lower Upper

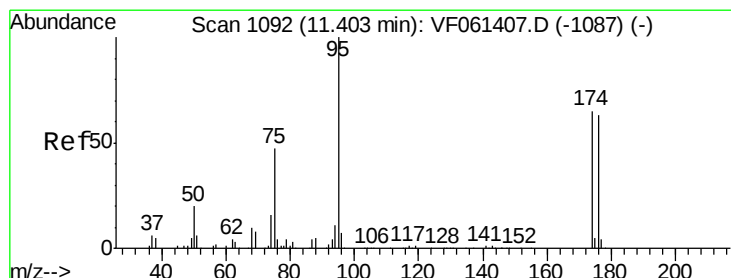
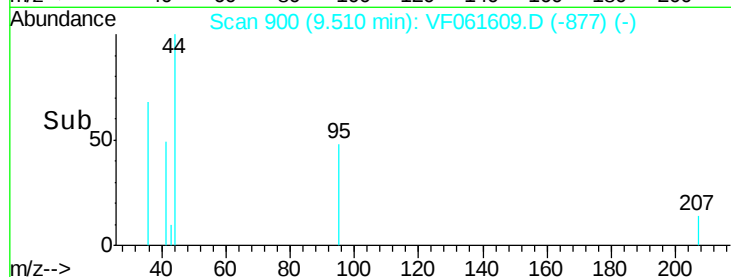
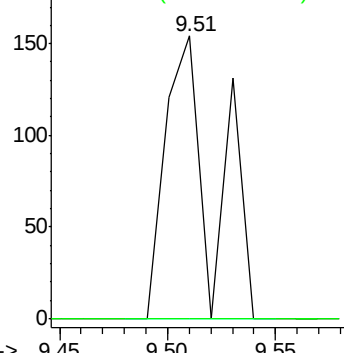
43 100

58 0.0 25.9 77.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 23.967 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

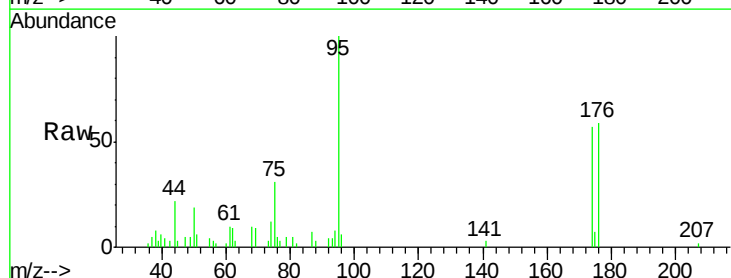
Tgt Ion: 95 Resp: 10656

Ion Ratio Lower Upper

95 100

174 56.7 0.0 130.4

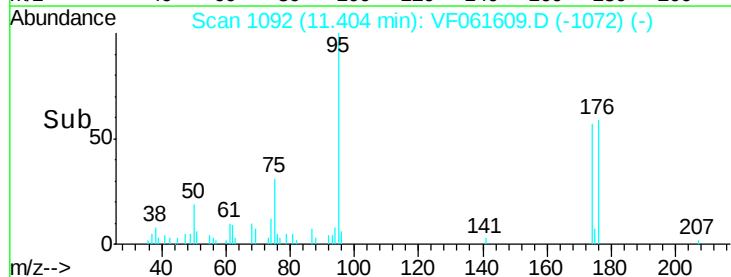
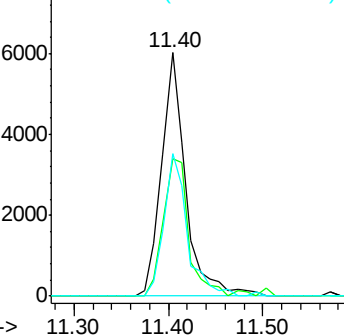
176 58.7 0.0 126.2

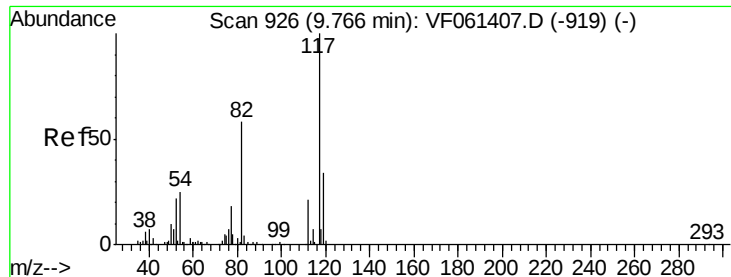


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

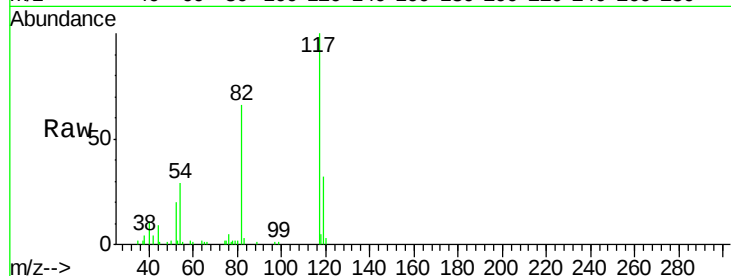




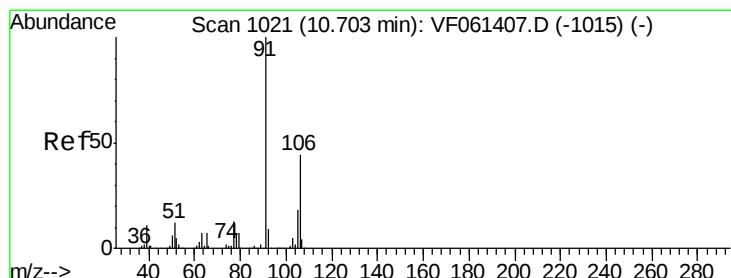
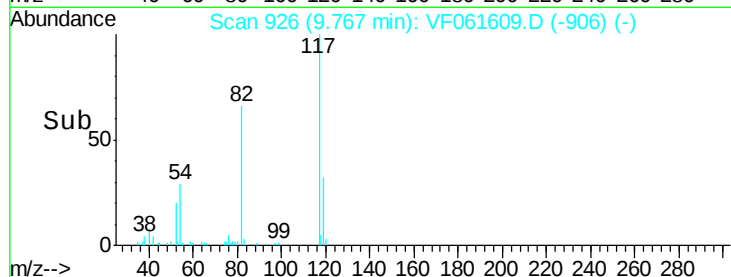
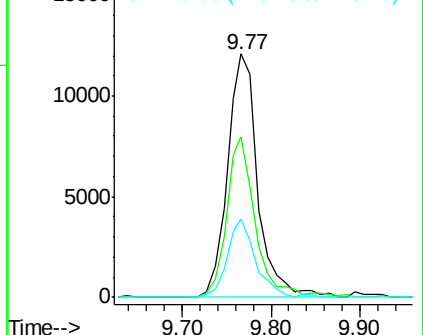
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. 0.00 min
Lab File: VF061609.D
Acq: 12 Feb 2019 15:21

Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-C

Tot Ion:117 Resp: 28822
Ion Ratio Lower Upper
117 100
82 66.0 46.4 69.6
119 32.3 27.2 40.8

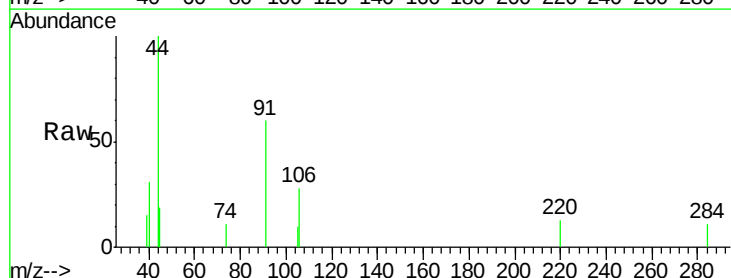


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

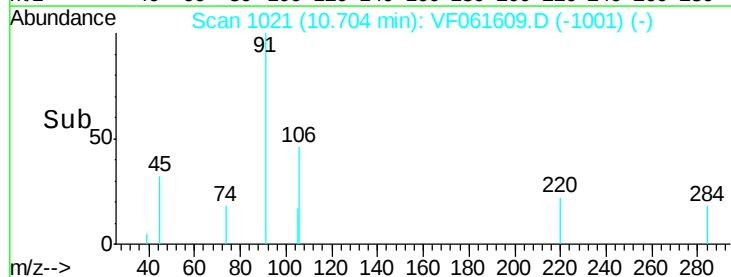
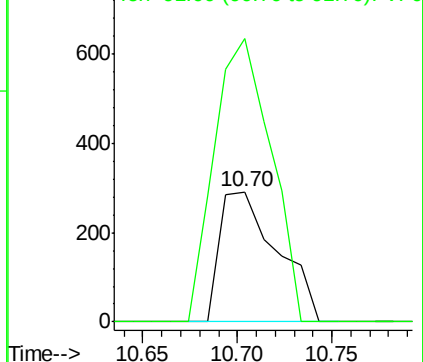


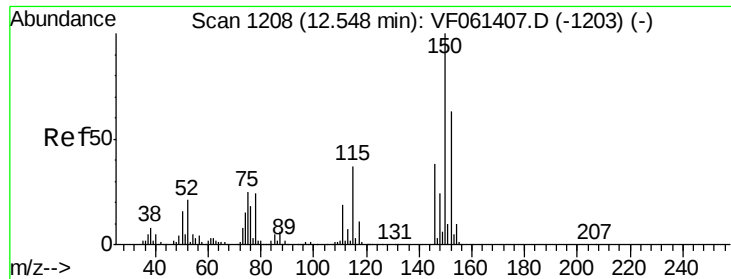
#69
o-Xylene
Concen: 1.471 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VF061609.D
Acq: 12 Feb 2019 15:21

Tgt Ion:106 Resp: 614
Ion Ratio Lower Upper
106 100
91 217.1 113.3 339.8



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: 12.55 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-C

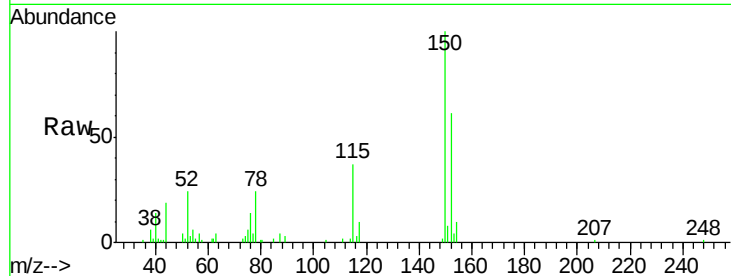
Tot Ion:152 Resp: 8738

Ion Ratio Lower Upper

152 100

115 59.8 30.0 90.0

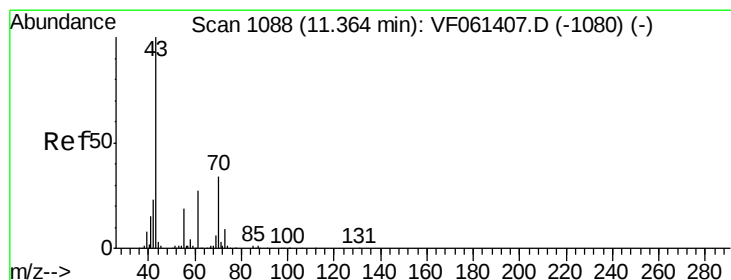
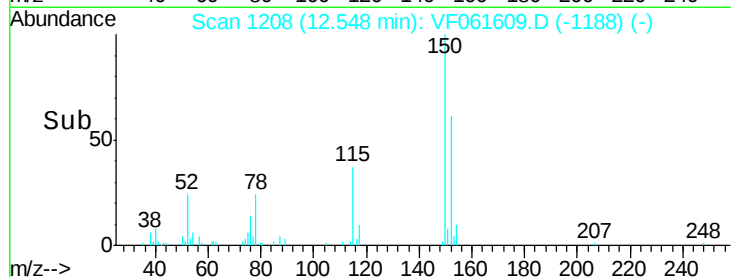
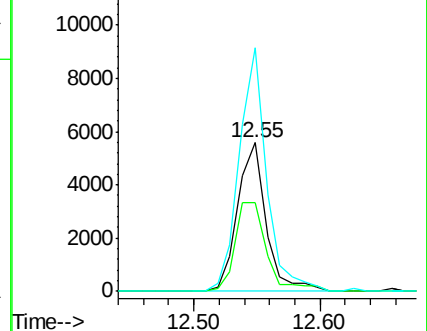
150 163.6 0.0 321.4



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



#74

N-ethyl acetate

Concen: 1.125 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Tgt Ion: 43 Resp: 189

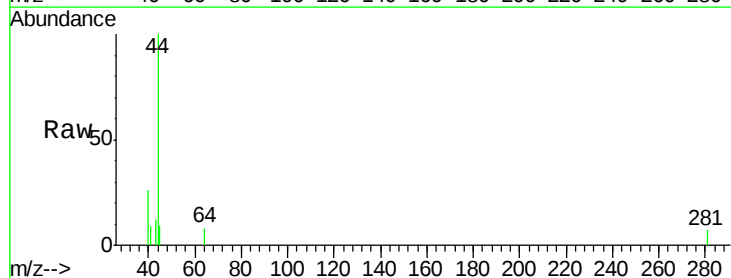
Ion Ratio Lower Upper

43 100

70 0.0 27.6 41.4#

55 0.0 15.4 23.2#

61 0.0 21.8 32.6#

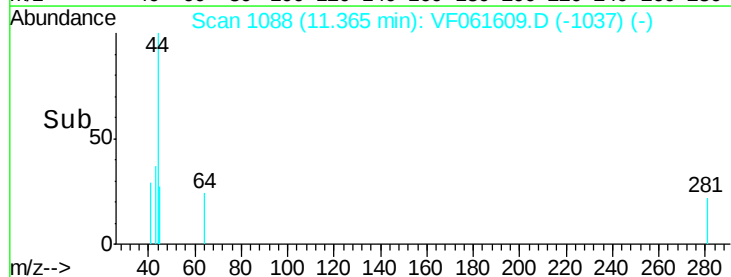
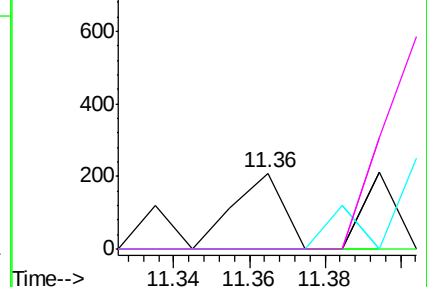


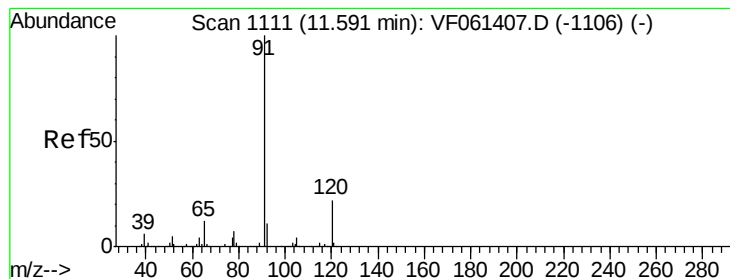
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#78

n-propylbenzene

Concen: 1.679 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Instrument :

MSVOA_F

ClientSampleId :

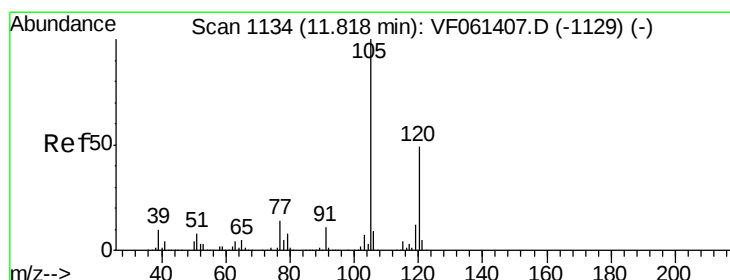
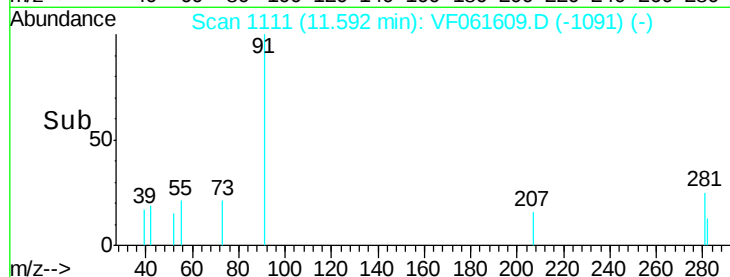
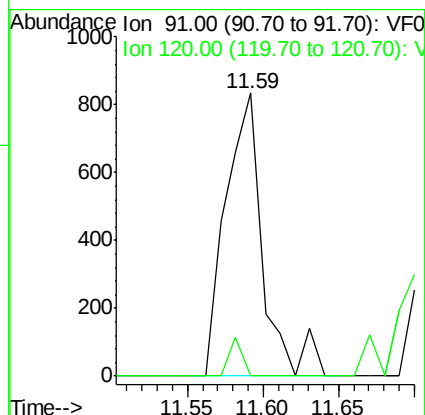
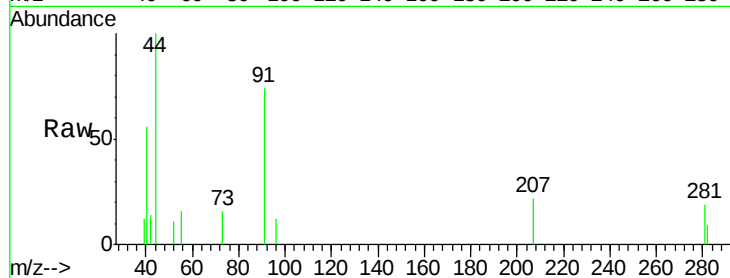
JC-02-021119-C

Tot Ion: 91 Resp: 1419

Ion Ratio Lower Upper

91 100

120 0.0 10.9 32.6#



#80

1,3,5-Trimethylbenzene

Concen: 3.126 ug/l

RT: 11.82 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VF061609.D

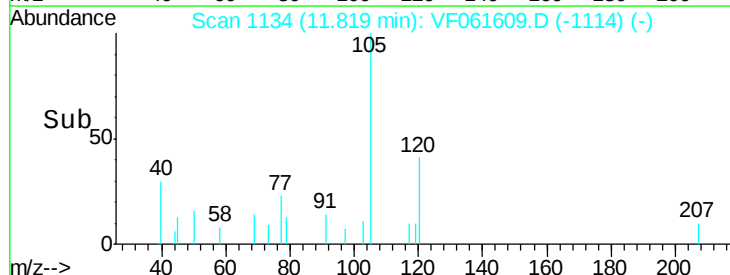
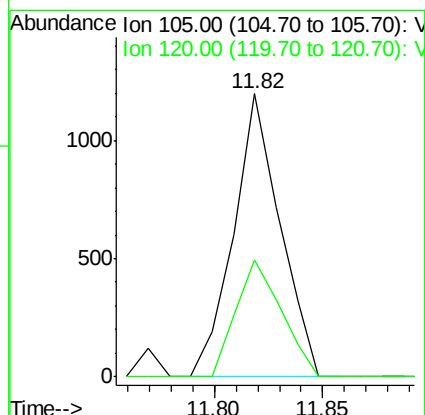
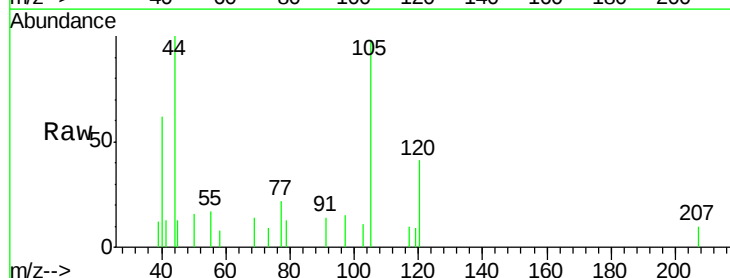
Acq: 12 Feb 2019 15:21

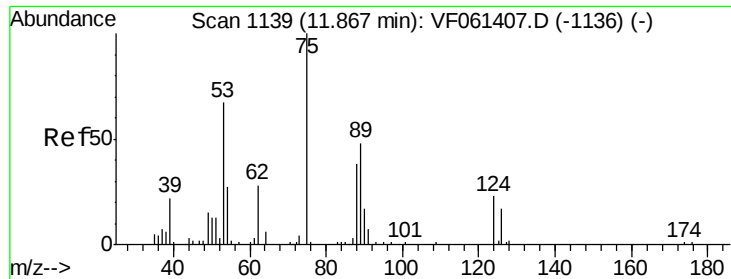
Tgt Ion: 105 Resp: 1793

Ion Ratio Lower Upper

105 100

120 41.4 24.7 74.1

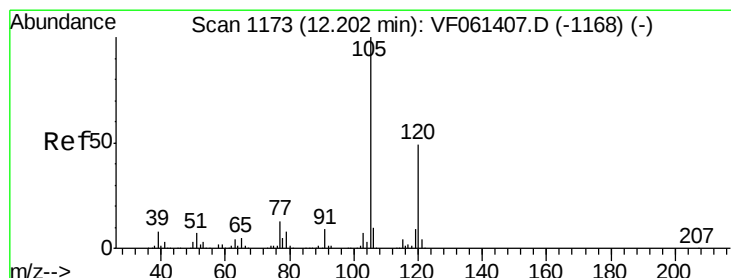
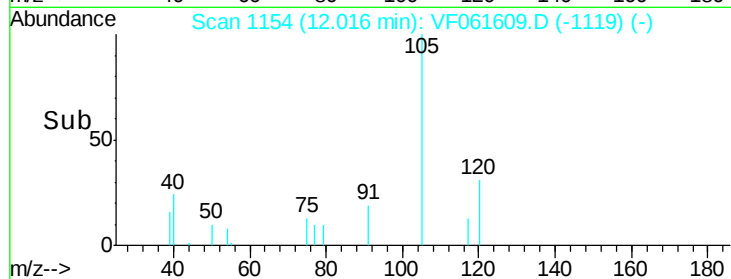
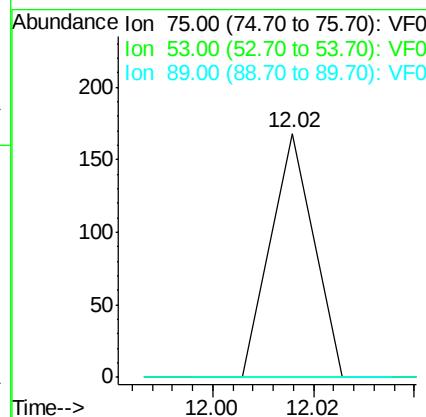
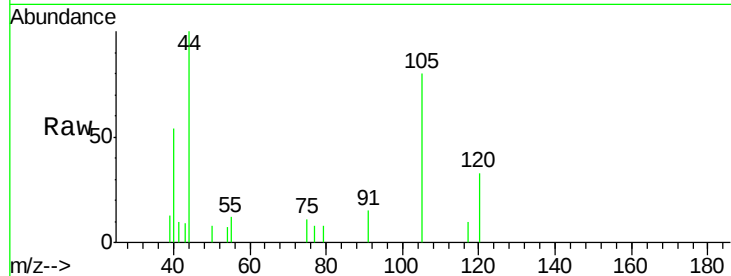




#81
trans-1,4-Dichloro-2-butene
Concen: 2.503 ug/l
RT: 12.02 min Scan# 1154
Delta R.T. 0.15 min
Lab File: VF061609.D
Acq: 12 Feb 2019 15:21

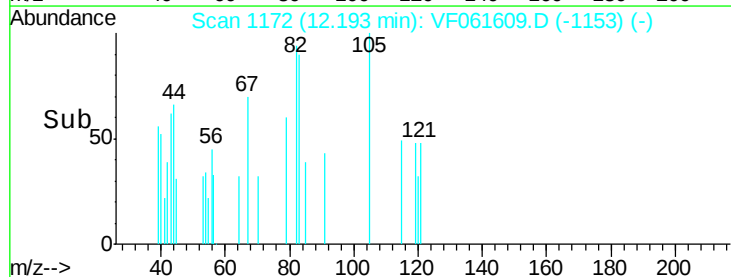
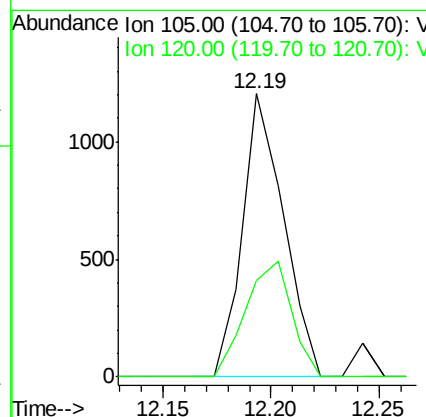
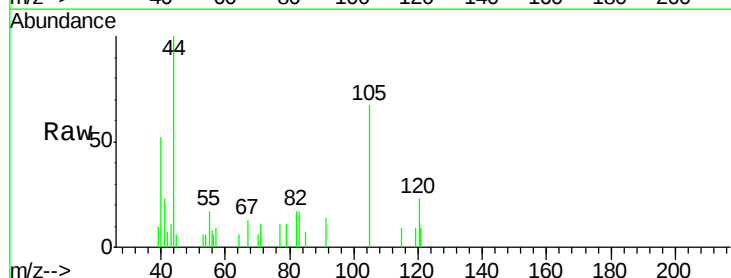
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-C

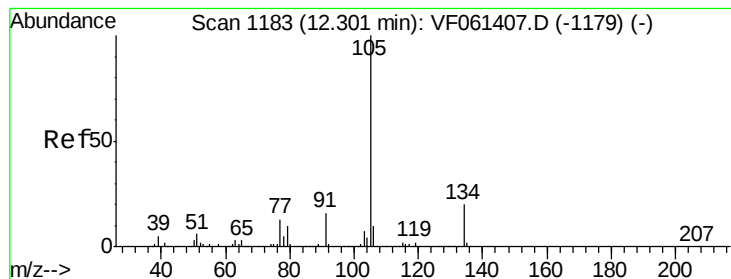
Tot Ion: 75 Resp: 99
Ion Ratio Lower Upper
75 100
53 0.0 57.8 86.6#
89 0.0 40.7 61.1#



#84
1,2,4-Trimethylbenzene
Concen: 2.698 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.01 min
Lab File: VF061609.D
Acq: 12 Feb 2019 15:21

Tgt Ion: 105 Resp: 1594
Ion Ratio Lower Upper
105 100
120 34.3 24.9 74.6





#85

sec-Butylbenzene

Concen: 1.126 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Instrument :

MSVOA_F

ClientSampleId :

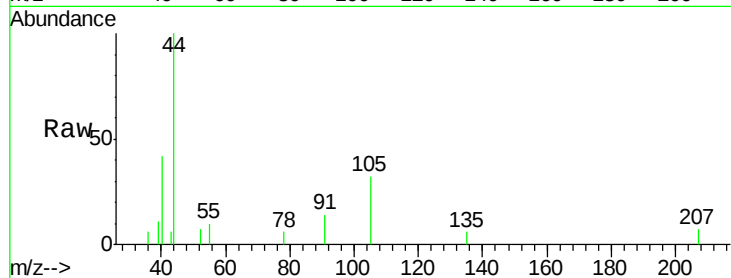
JC-02-021119-C

Tot Ion:105 Resp: 908

Ion Ratio Lower Upper

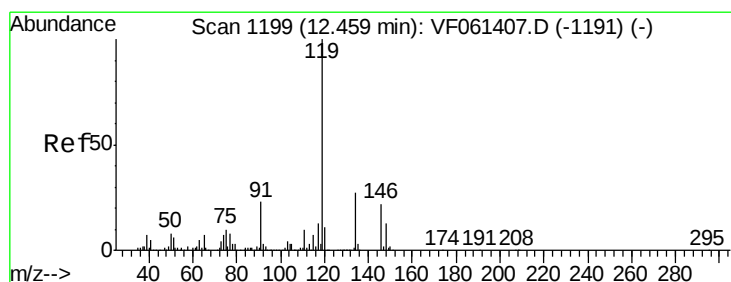
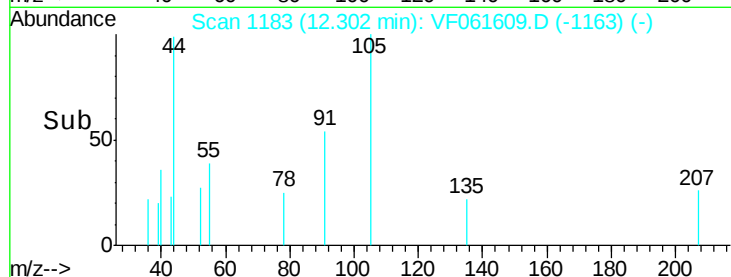
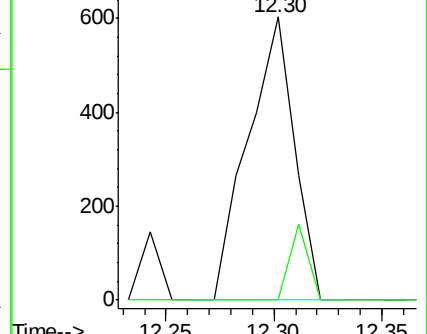
105 100

134 0.0 10.0 30.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.418 ug/l

RT: 12.42 min Scan# 1195

Delta R.T. -0.04 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

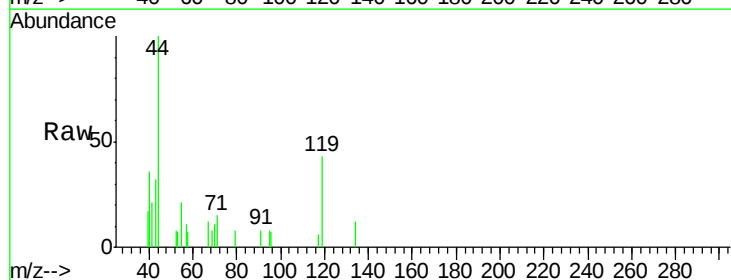
Tgt Ion:119 Resp: 1600

Ion Ratio Lower Upper

119 100

134 28.0 13.4 40.2

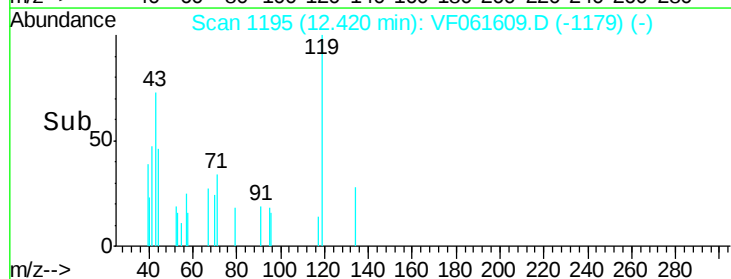
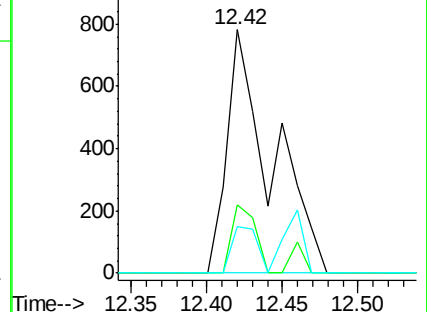
91 19.3 11.4 34.2

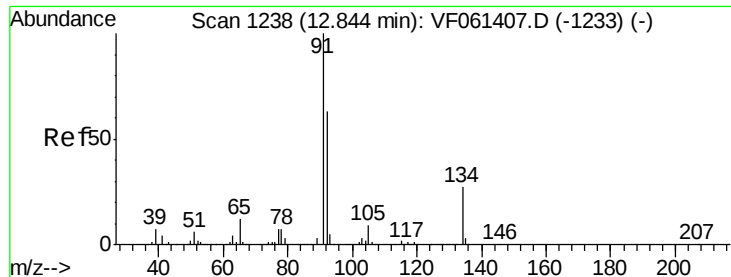


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 2.633 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.01 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-C

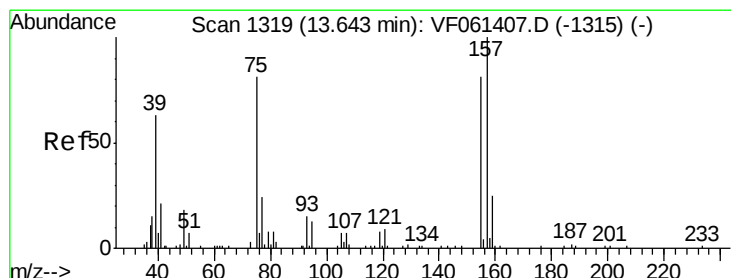
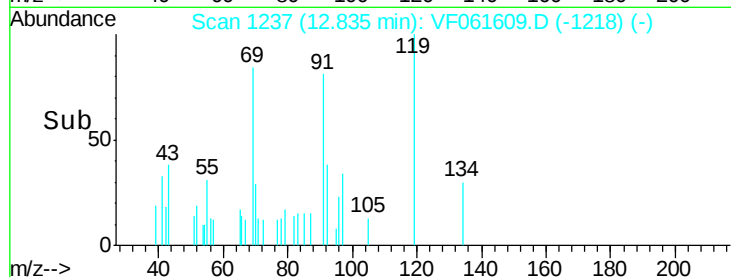
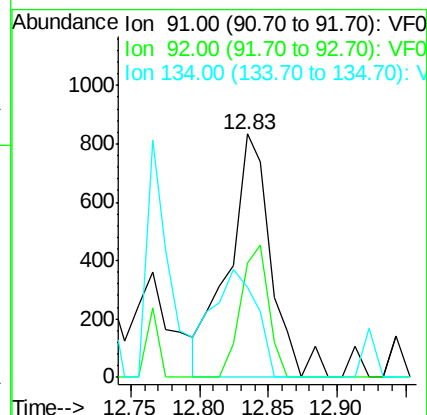
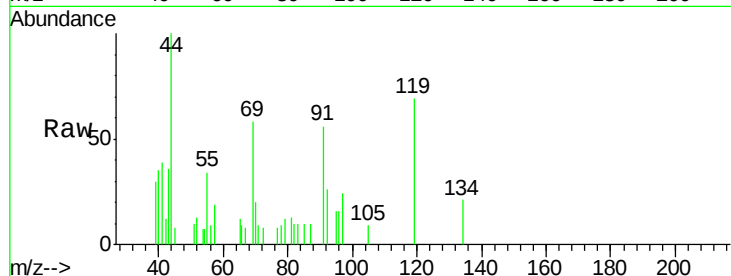
Tot Ion: 91 Resp: 1797

Ion Ratio Lower Upper

91 100

92 47.0 31.6 94.7

134 37.2 13.6 40.8



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.895 ug/l

RT: 13.69 min Scan# 1324

Delta R.T. 0.05 min

Lab File: VF061609.D

Acq: 12 Feb 2019 15:21

Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

155 0.0 49.7 149.1#

157 0.0 61.4 184.1#

