

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\
 Data File : VF061855.D
 Acq On : 5 Mar 2019 19:58
 Operator : VA/AP
 Sample : K1707-05
 Misc : 7.41g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S12

Quant Time: Mar 06 05:46:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	148523	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	199849	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	89065	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	16212	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	47585	43.99	ug/l	0.00
Spiked Amount 50.000			Recovery =	87.98%		
35) Dibromofluoromethane	4.11	113	66053	47.36	ug/l	-0.01
Spiked Amount 50.000			Recovery =	94.72%		
50) Toluene-d8	7.55	98	131449	31.71	ug/l	-0.01
Spiked Amount 50.000			Recovery =	63.42%		
62) 4-Bromofluorobenzene	11.41	95	20956	12.91	ug/l	-0.01
Spiked Amount 50.000			Recovery =	25.82%		

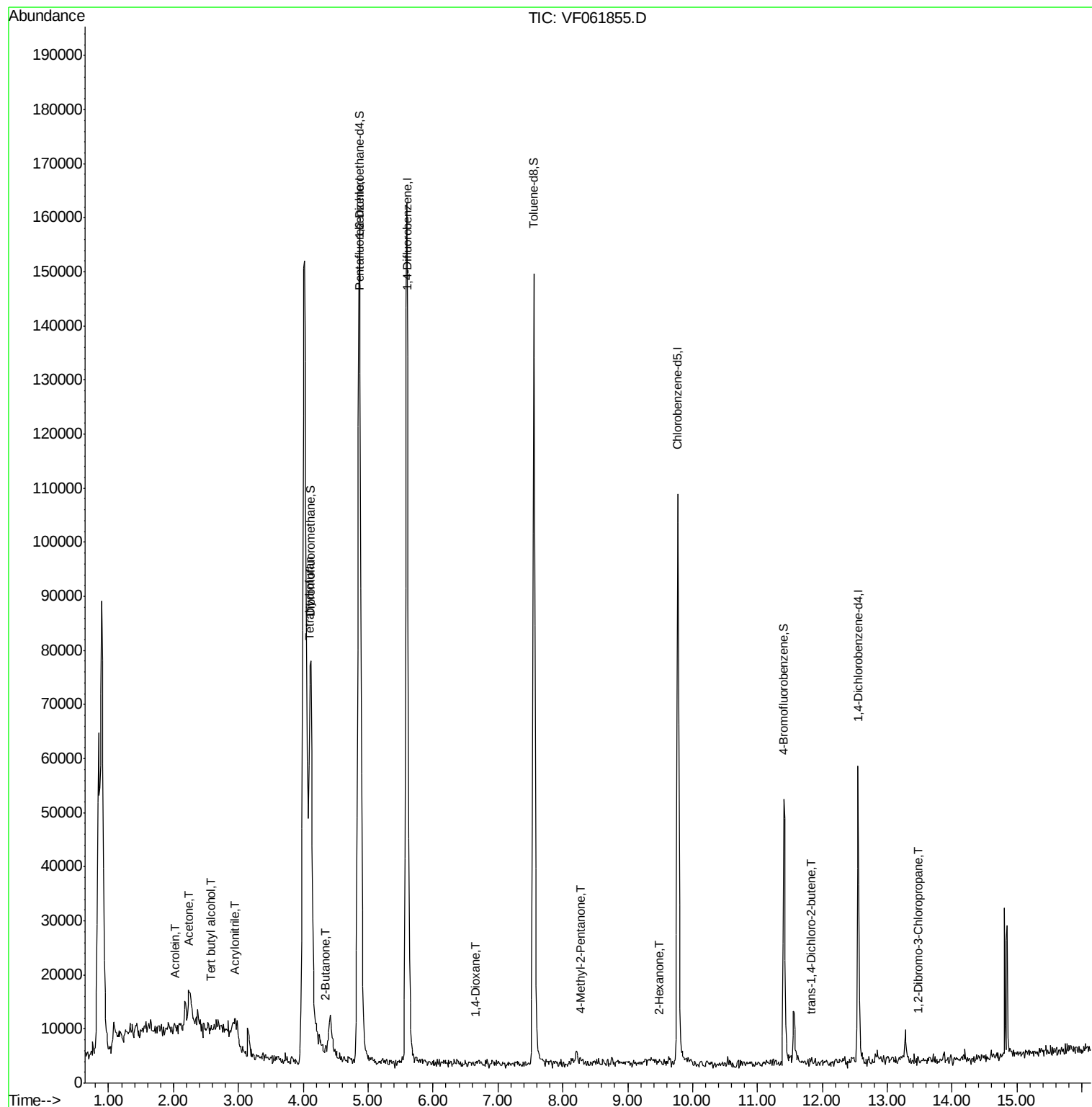
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	301	4.903	ug/l #	1
13) Acrolein	2.02	56	175	2.250	ug/l #	4
15) Acrylonitrile	2.94	53	256	1.310	ug/l #	16
16) Acetone	2.24	43	5670	25.026	ug/l	96
18) Methyl Acetate	2.19	43	288	Below Cal		95
20) Methylene Chloride	2.18	84	2769	Below Cal		96
25) 2-Butanone	4.35	43	960	2.083	ug/l #	56
29) Tetrahydrofuran	4.09	42	1106	5.565	ug/l #	49
49) 1,4-Dioxane	6.64	88	64	11.326	ug/l #	26
51) 4-Methyl-2-Pentanone	8.26	43	815	1.207	ug/l #	83
59) 2-Hexanone	9.49	43	841	1.727	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.82	75	62	1.071	ug/l #	18
92) 1,2-Dibromo-3-Chloropropan	13.49	75	128	7.442	ug/l #	1

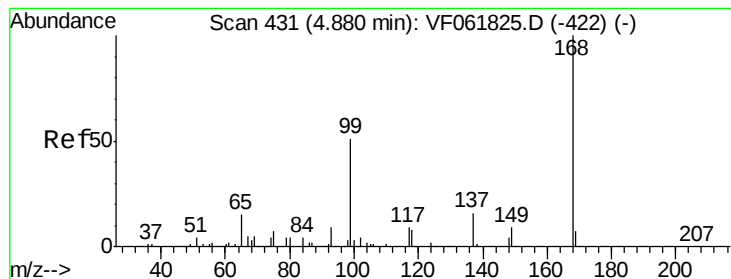
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

Instrument :

MSVOA_F

ClientSampleId :

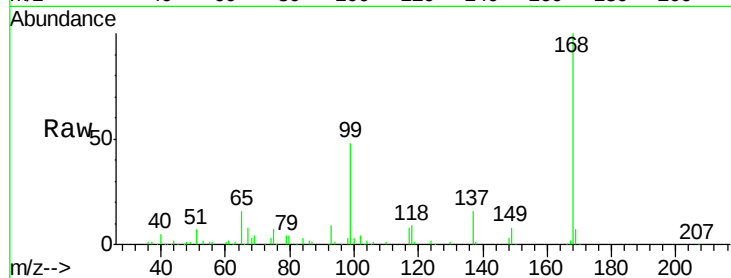
S12

Tot Ion:168 Resp: 148523

Ion Ratio Lower Upper

168 100

99 48.2 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

50000

40000

30000

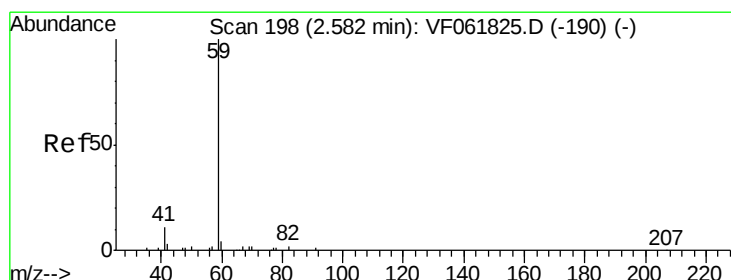
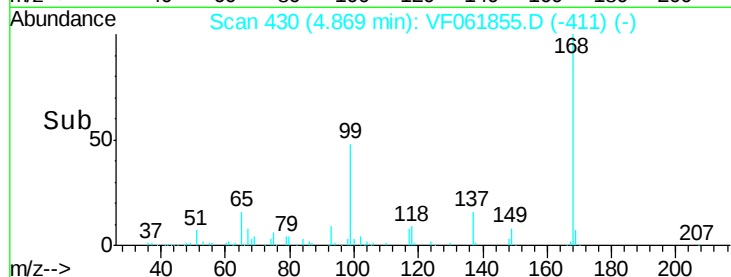
20000

10000

0

Time-->

4.70 4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 4.903 ug/l

RT: 2.58 min Scan# 198

Delta R.T. -0.00 min

Lab File: VF061855.D

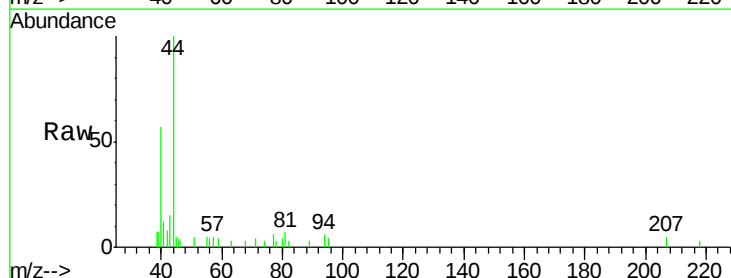
Acq: 5 Mar 2019 19:58

Tgt Ion: 59 Resp: 301

Ion Ratio Lower Upper

59 100

57 113.3 11.8 17.6#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

200

150

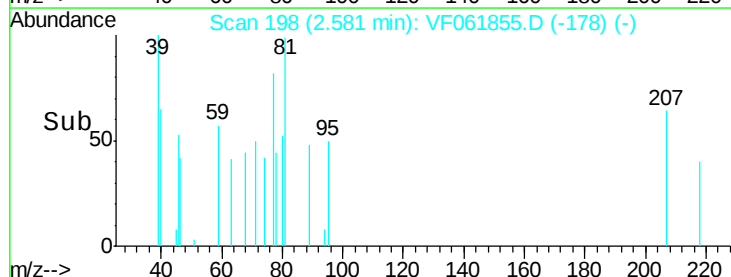
100

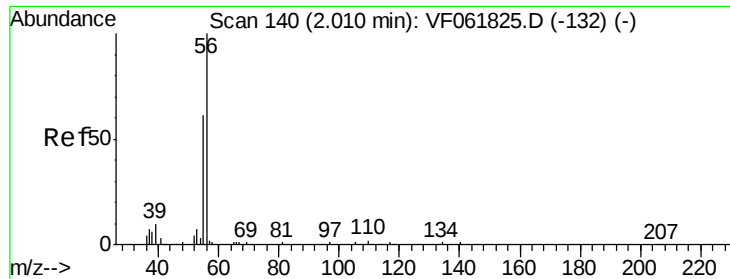
50

0

Time-->

2.55 2.60





#13

Acrolein

Concen: 2.250 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.01 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

Instrument :

MSVOA_F

ClientSampleId :

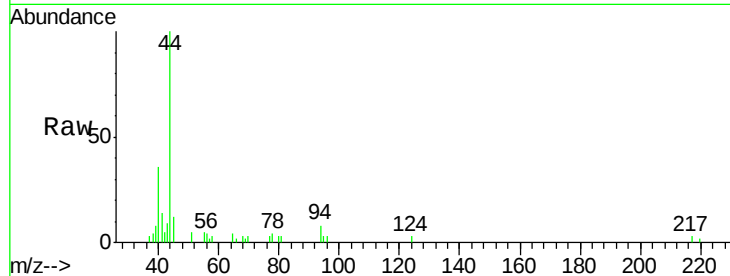
S12

Tot Ion: 56 Resp: 175

Ion Ratio Lower Upper

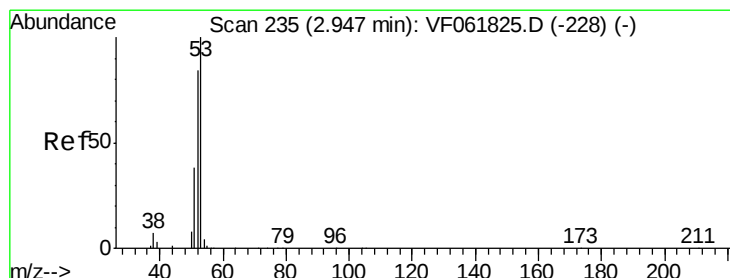
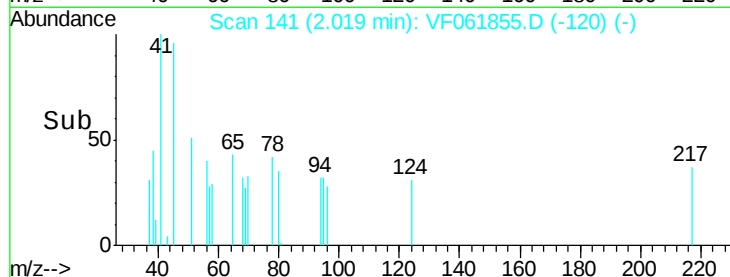
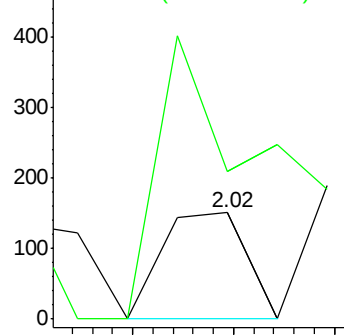
56 100

55 139.1 51.3 76.9#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 1.310 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

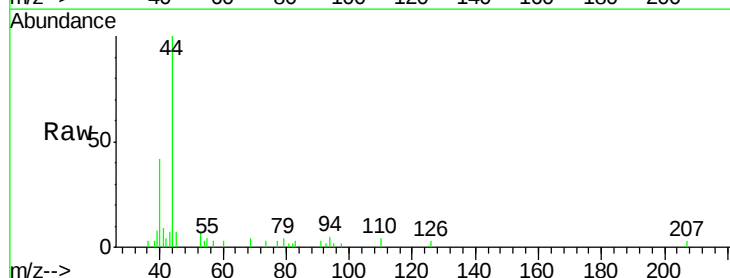
Tgt Ion: 53 Resp: 256

Ion Ratio Lower Upper

53 100

52 0.0 67.4 101.0#

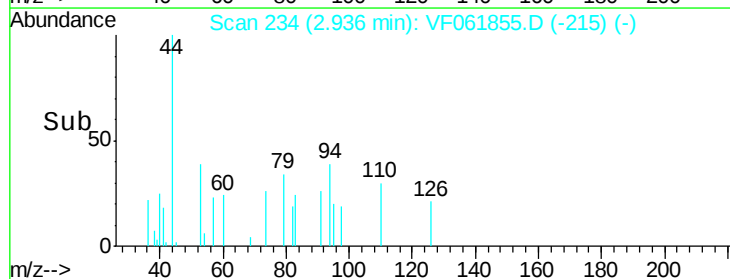
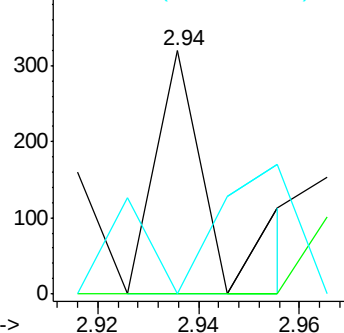
51 0.0 30.7 46.1#

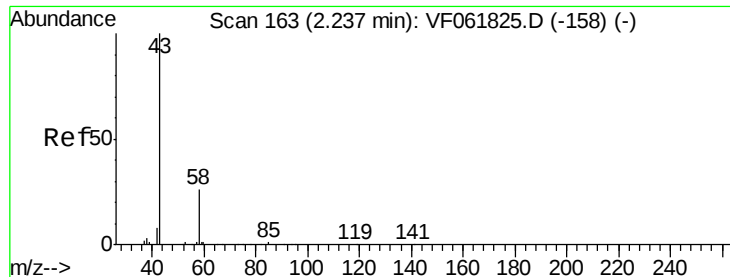


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 25.026 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

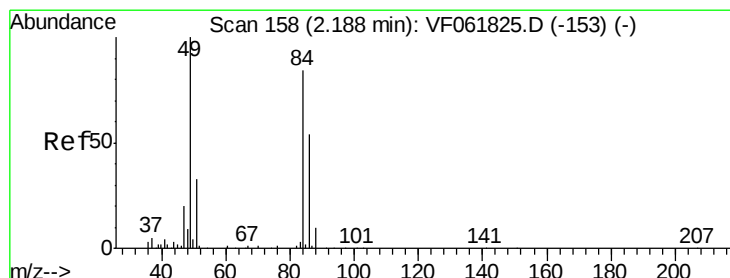
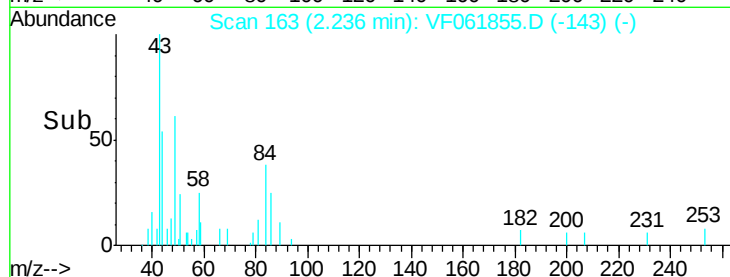
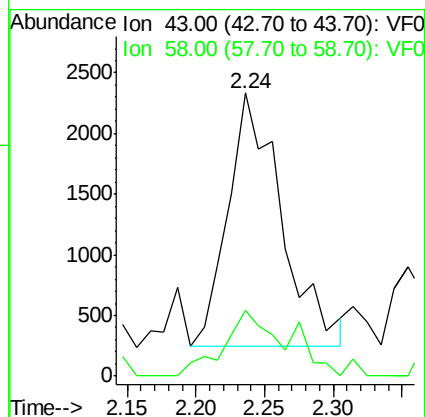
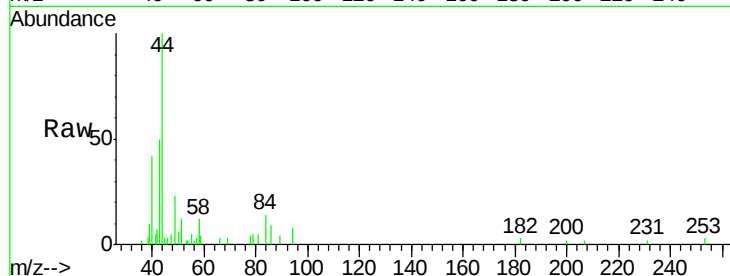
Instrument :
MSVOA_F
ClientSampleId :
S12

Tot Ion: 43 Resp: 5670

Ion Ratio Lower Upper

43 100

58 23.1 20.3 30.5



#20

Methylene Chloride

Concen: Below Cal

RT: 2.18 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

Tgt Ion: 84 Resp: 2769

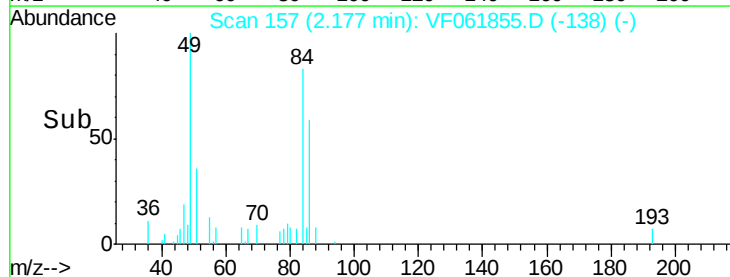
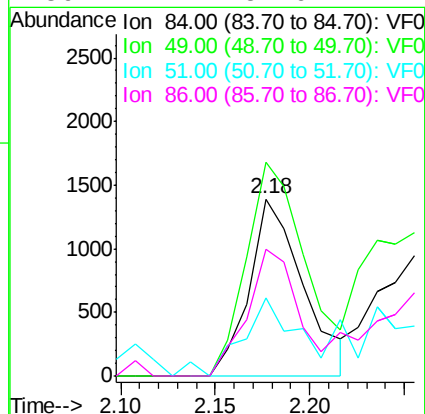
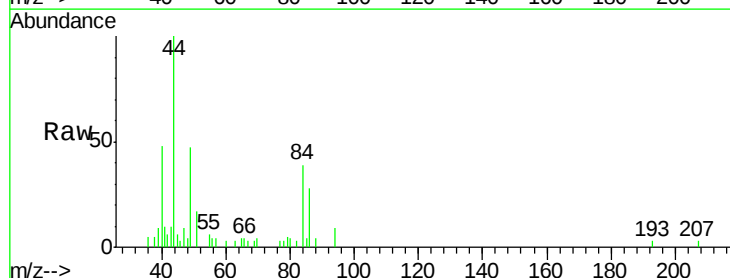
Ion Ratio Lower Upper

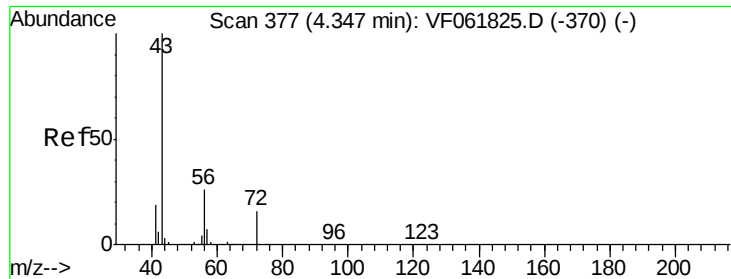
84 100

49 120.9 96.8 145.2

51 43.9 31.8 47.6

86 71.7 51.6 77.4





#25

2-Butanone

Concen: 2.083 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.00 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

Instrument :

MSVOA_F

ClientSampled :

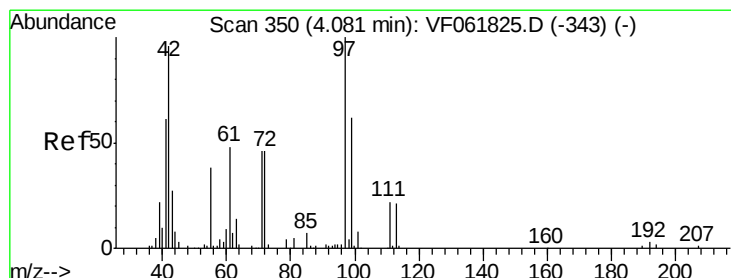
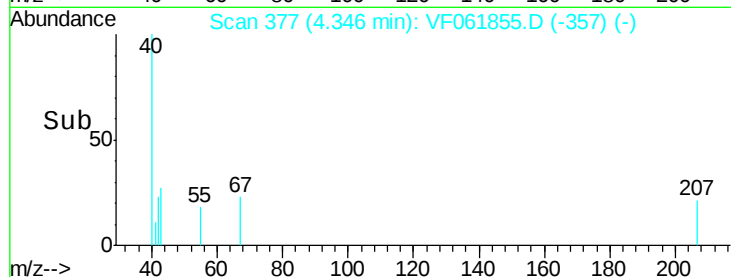
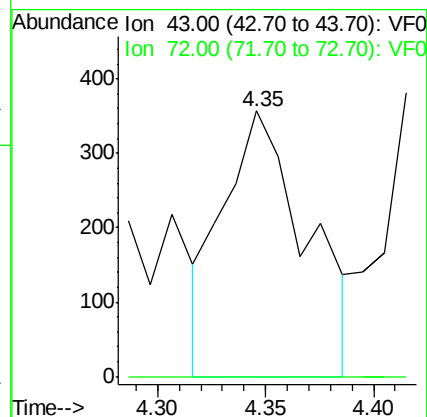
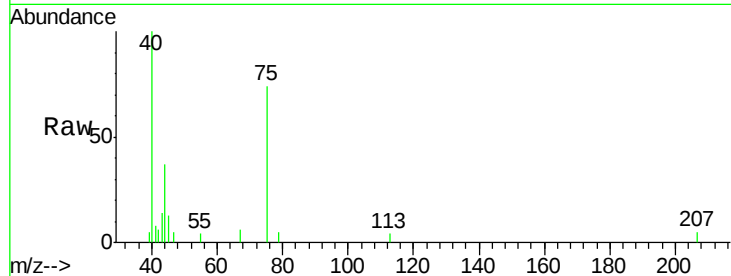
S12

Tot Ion: 43 Resp: 960

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.4#



#29

Tetrahydrofuran

Concen: 5.565 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.01 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

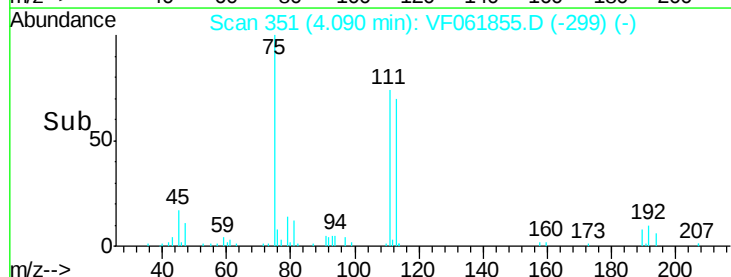
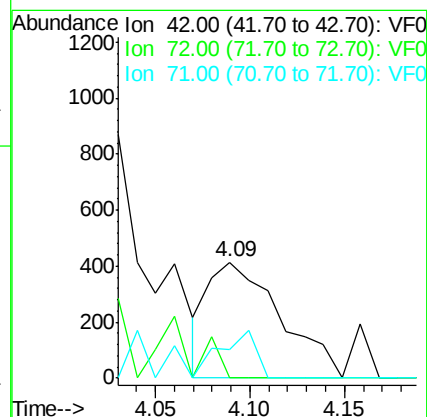
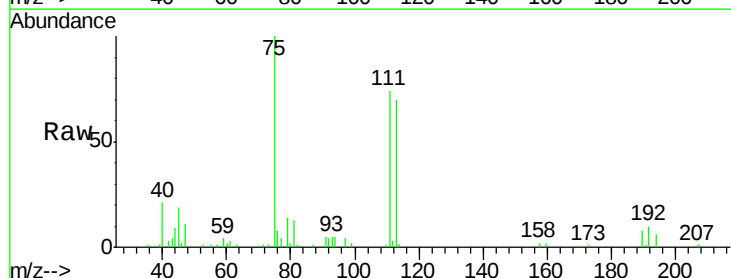
Tgt Ion: 42 Resp: 1106

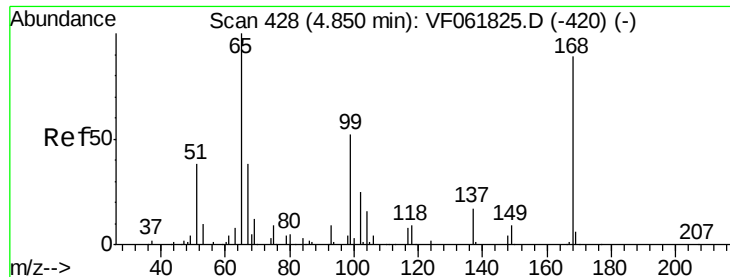
Ion Ratio Lower Upper

42 100

72 0.0 34.4 51.6#

71 20.3 34.6 52.0#





#33

1,2-Dichloroethane-d4

Concen: 43.995 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.00 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

Instrument :

MSVOA_F

ClientSampled :

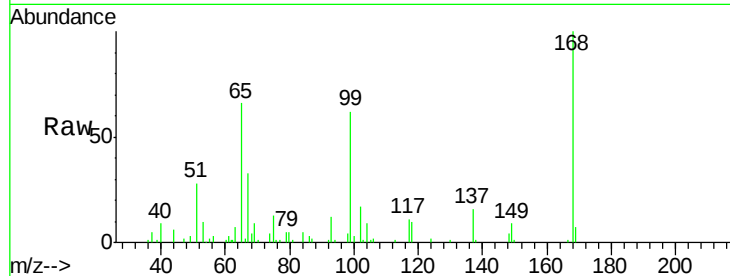
S12

Tot Ion: 65 Resp: 47585

Ion Ratio Lower Upper

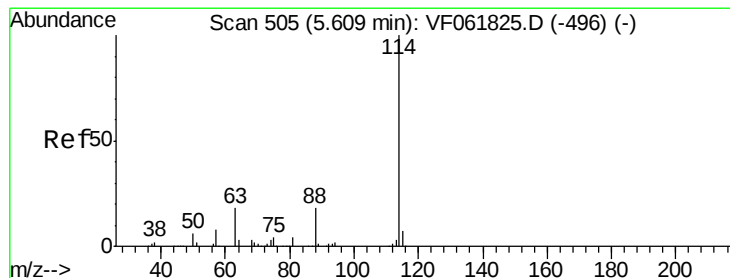
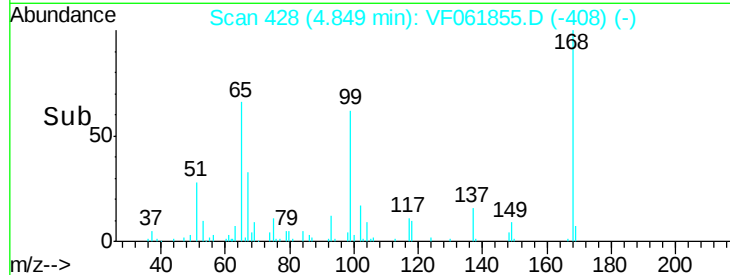
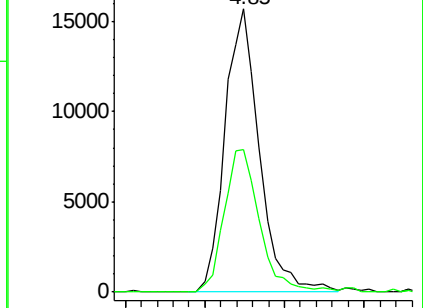
65 100

67 50.2 0.0 108.6



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: 5.60 min Scan# 504

Delta R.T. -0.01 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

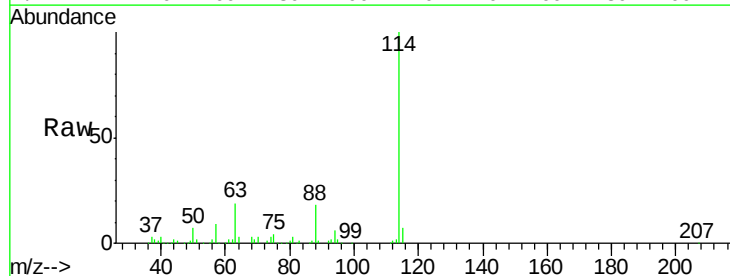
Tgt Ion:114 Resp: 199849

Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.6

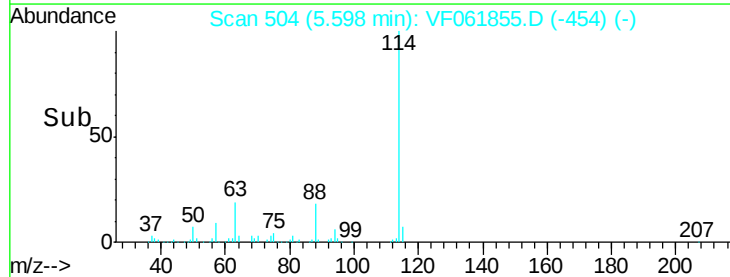
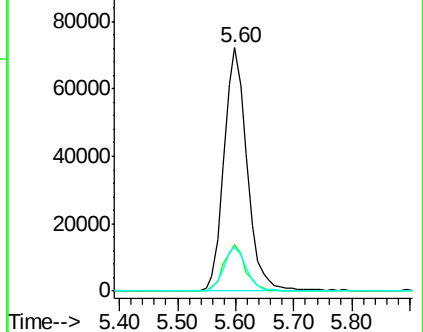
88 17.9 0.0 35.6

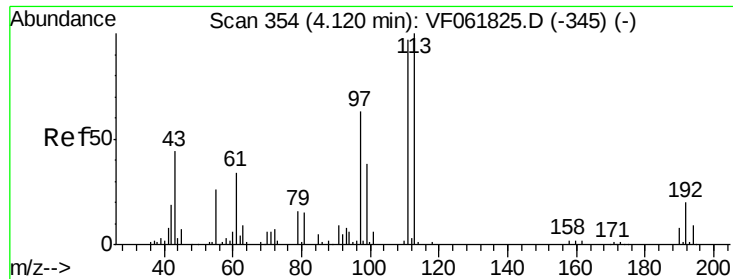


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 47.360 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

Instrument :
MSVOA_F
ClientSampled :
S12

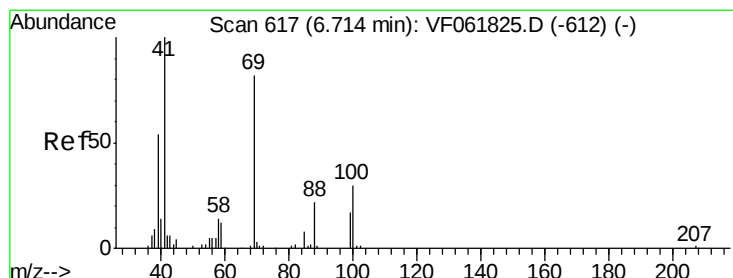
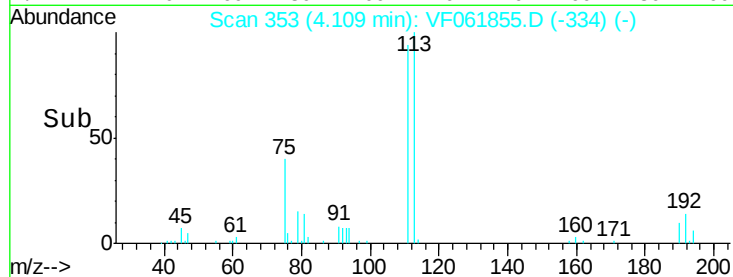
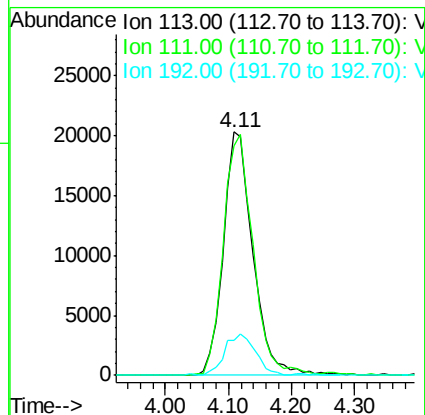
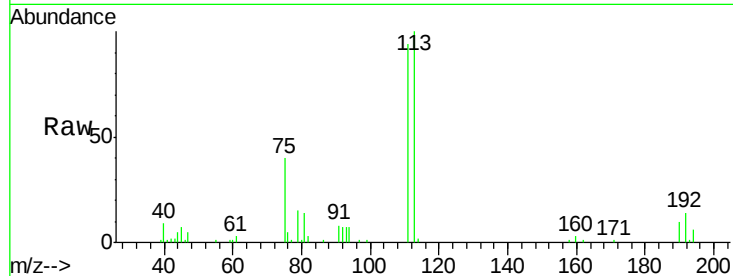
Tot Ion:113 Resp: 66053

Ion Ratio Lower Upper

113 100

111 94.1 77.6 116.4

192 15.0 15.9 23.9#



#49

1,4-Dioxane

Concen: 11.326 ug/l

RT: 6.64 min Scan# 610

Delta R.T. -0.07 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

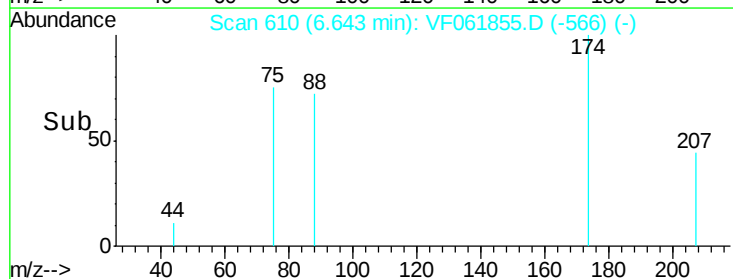
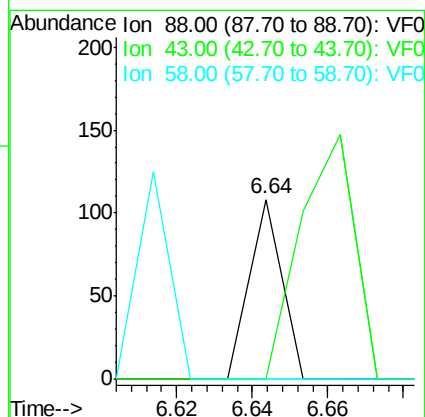
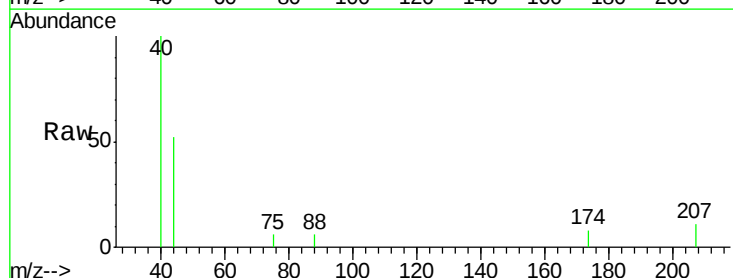
Tgt Ion: 88 Resp: 64

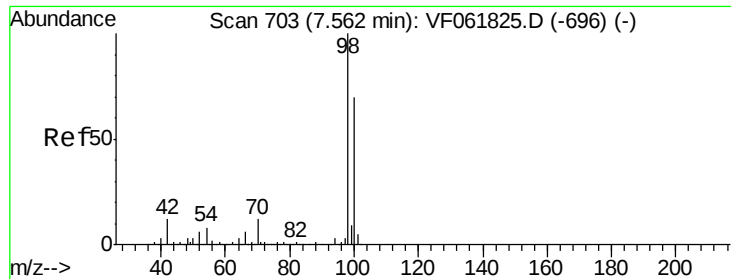
Ion Ratio Lower Upper

88 100

43 0.0 28.4 42.6#

58 0.0 50.7 76.1#





#50

Toluene-d8

Concen: 31.709 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

Instrument :

MSVOA_F

ClientSampleId :

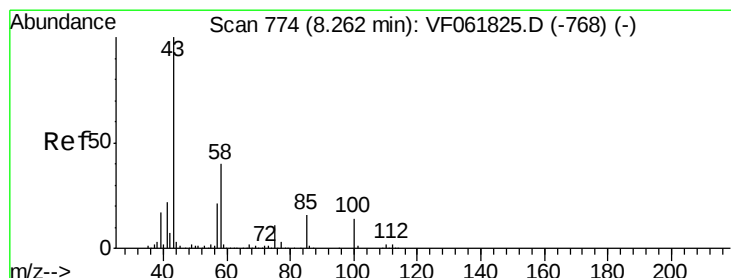
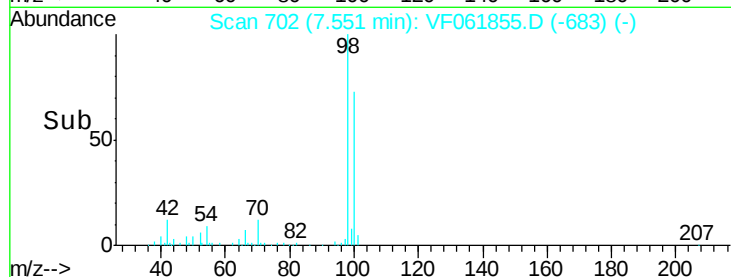
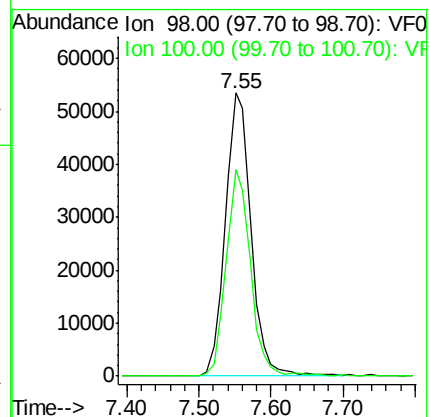
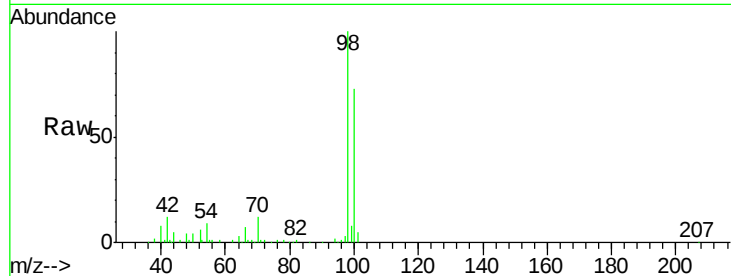
S12

Tot Ion: 98 Resp: 131449

Ion Ratio Lower Upper

98 100

100 73.1 56.0 84.0



#51

4-Methyl-2-Pentanone

Concen: 1.207 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061855.D

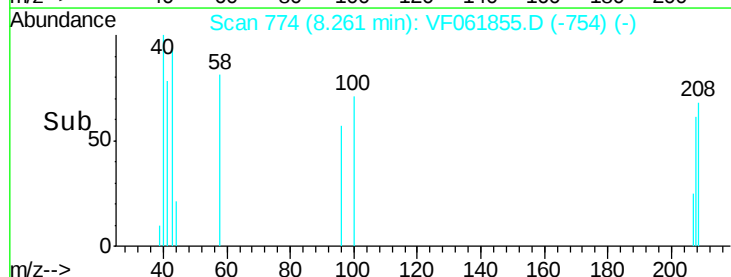
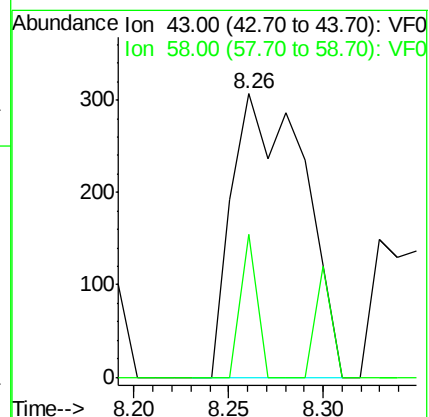
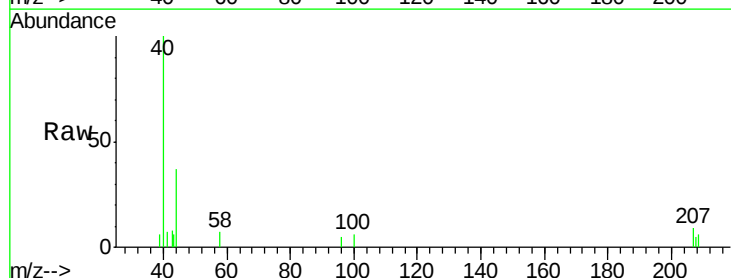
Acq: 5 Mar 2019 19:58

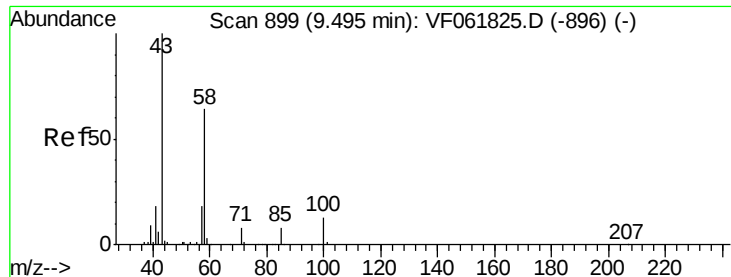
Tgt Ion: 43 Resp: 815

Ion Ratio Lower Upper

43 100

58 50.2 31.8 47.8#

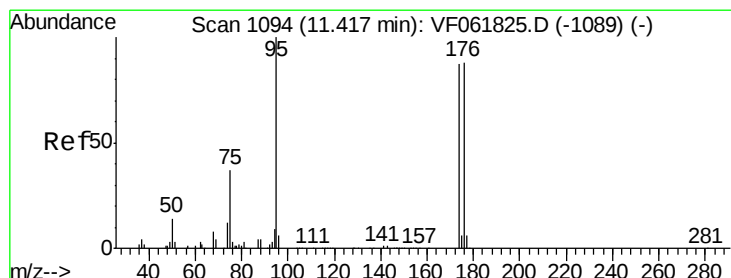
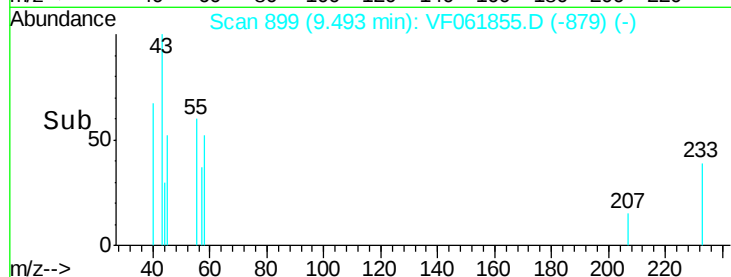
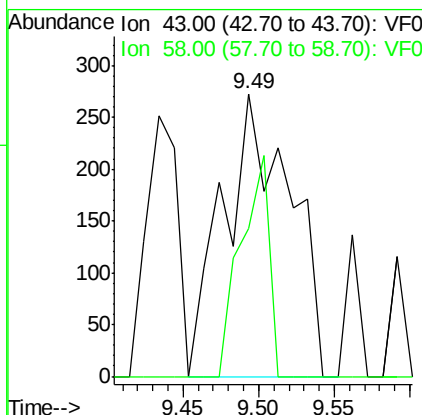
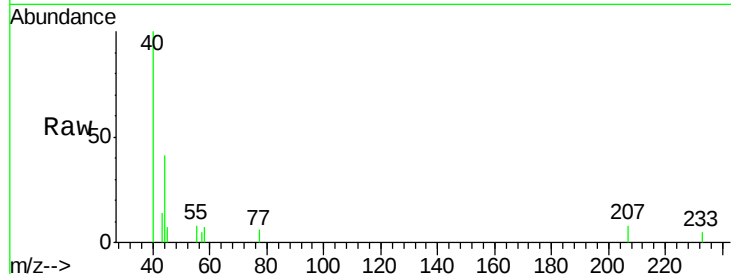




#59
2-Hexanone
Concen: 1.727 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061855.D
Acq: 5 Mar 2019 19:58

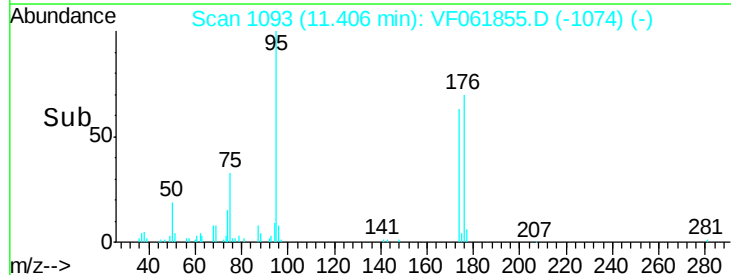
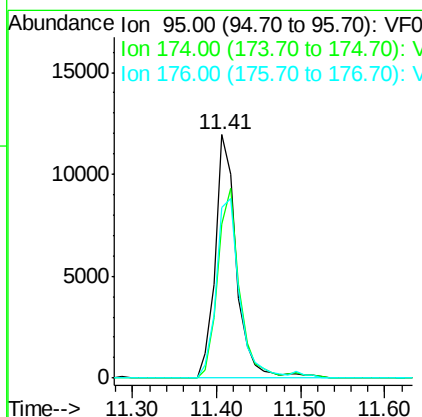
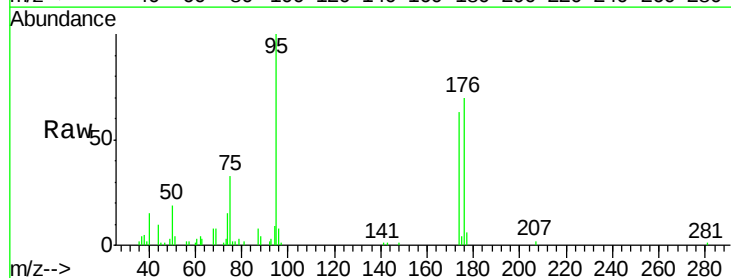
Instrument :
MSVOA_F
ClientSampleId :
S12

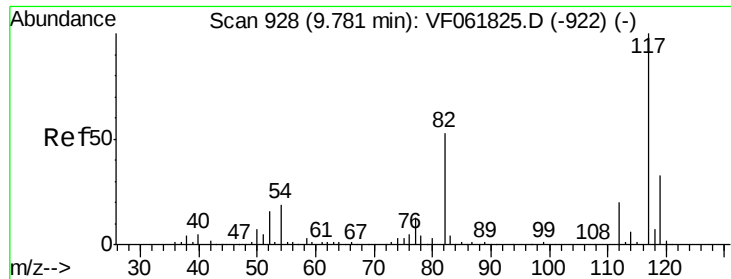
Tot Ion: 43 Resp: 841
Ion Ratio Lower Upper
43 100
58 52.4 28.8 86.4



#62
4-Bromofluorobenzene
Concen: 12.905 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF061855.D
Acq: 5 Mar 2019 19:58

Tgt Ion: 95 Resp: 20956
Ion Ratio Lower Upper
95 100
174 63.0 0.0 174.0
176 70.0 0.0 175.2

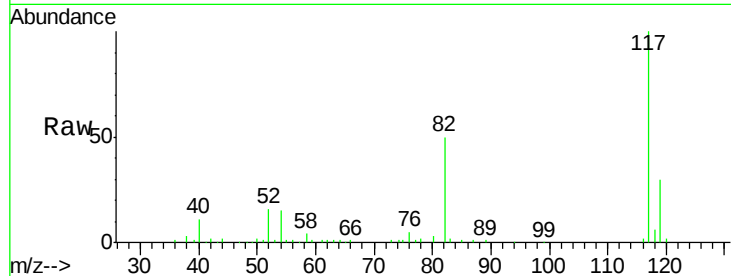




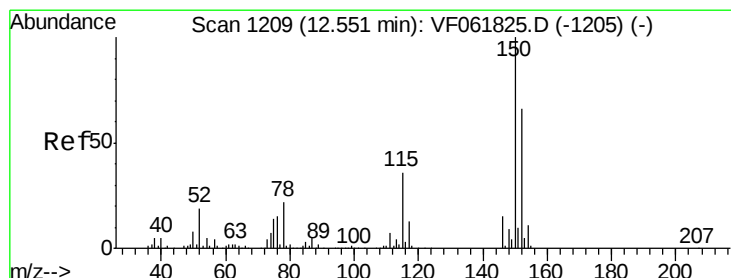
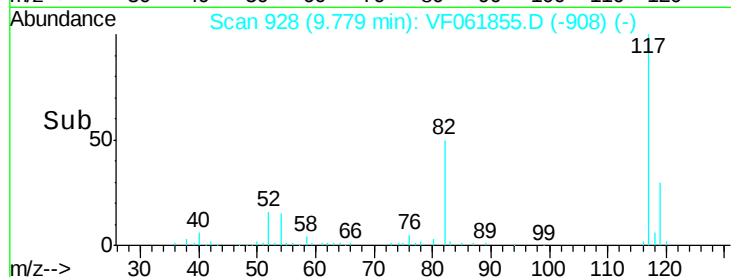
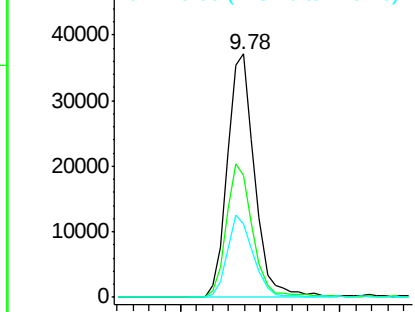
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF061855.D
Acq: 5 Mar 2019 19:58

Instrument :
MSVOA_F
ClientSampled :
S12

Tot Ion:117 Resp: 89065
Ion Ratio Lower Upper
117 100
82 50.3 42.6 63.8
119 30.1 26.0 39.0

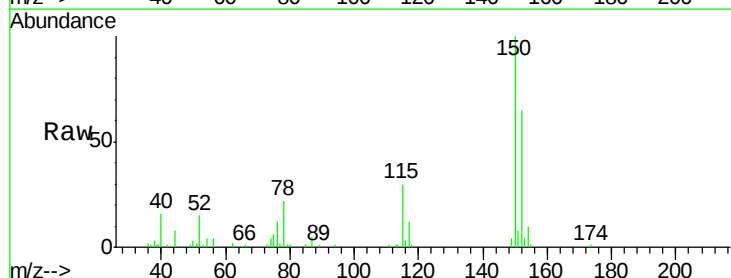


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

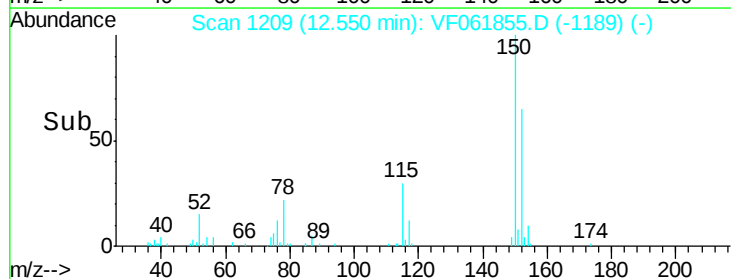
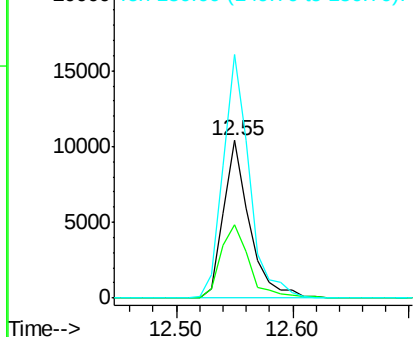


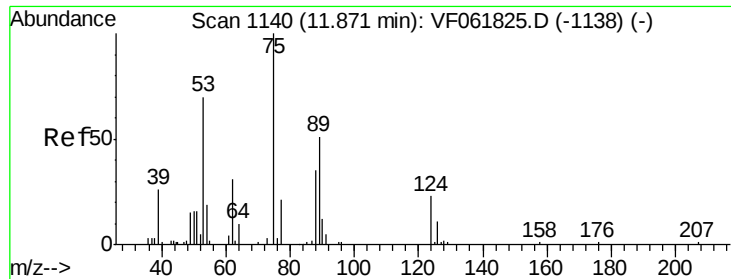
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.00 min
Lab File: VF061855.D
Acq: 5 Mar 2019 19:58

Tgt Ion:152 Resp: 16212
Ion Ratio Lower Upper
152 100
115 46.5 27.7 83.1
150 154.6 0.0 304.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.071 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.05 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

Instrument :

MSVOA_F

ClientSampled :

S12

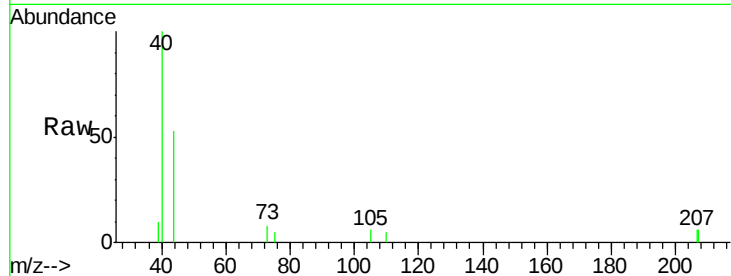
Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

53 0.0 58.6 88.0#

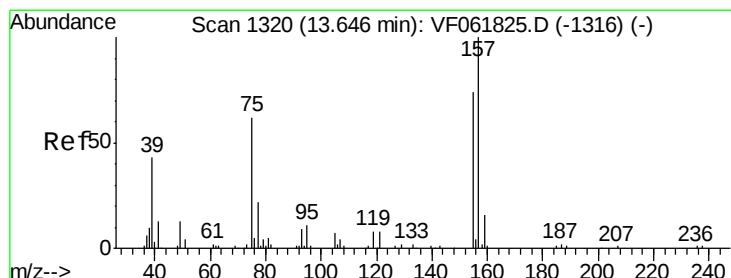
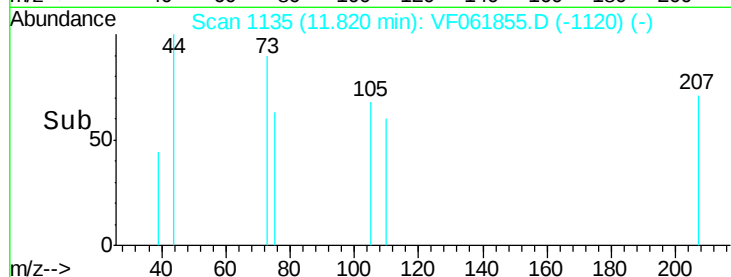
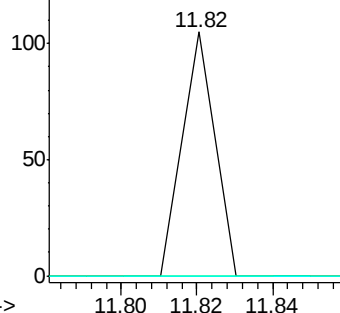
89 0.0 41.4 62.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#92

1,2-Dibromo-3-Chloropropane

Concen: 7.442 ug/l

RT: 13.49 min Scan# 1304

Delta R.T. -0.16 min

Lab File: VF061855.D

Acq: 5 Mar 2019 19:58

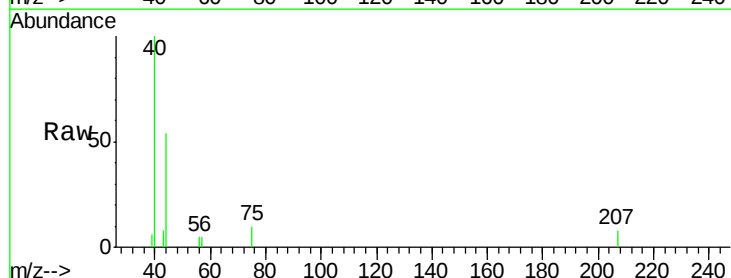
Tgt Ion: 75 Resp: 128

Ion Ratio Lower Upper

75 100

155 0.0 59.8 179.4#

157 0.0 81.2 243.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

