

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033643.D
 Acq On : 3 May 2019 1:03
 Operator : SY/AP
 Sample : K2628-09DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-9DL

Quant Time: May 03 04:42:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 06:29:02 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	912268	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2173245	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2284388	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1808319	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

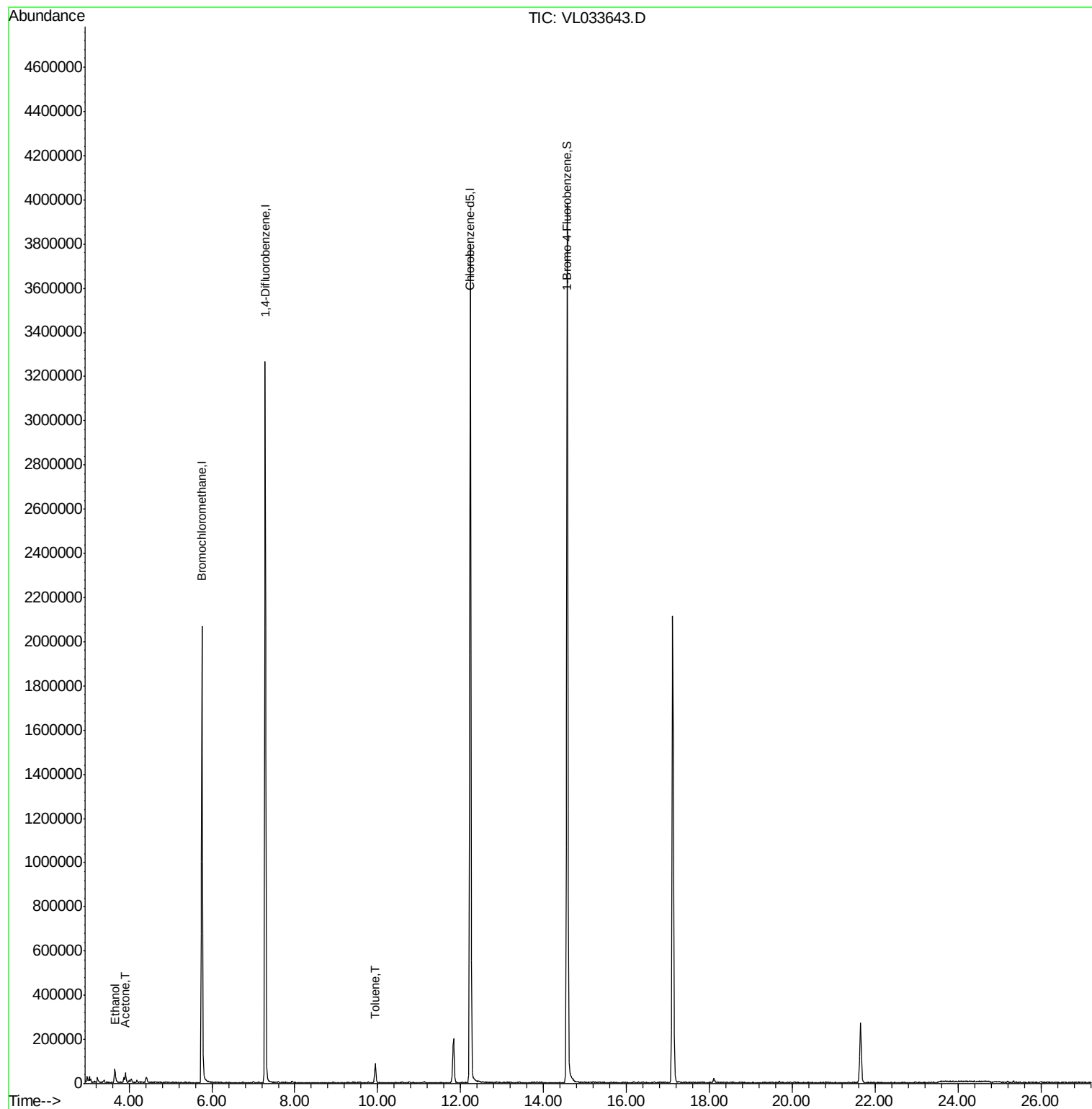
Target Compounds					Ovalue
13) Ethanol	3.65	45	59634	4.211 ppbv	99
15) Acetone	3.91	43	43123	0.388 ppbv	96
53) Toluene	9.94	91	60670	0.260 ppbv	96

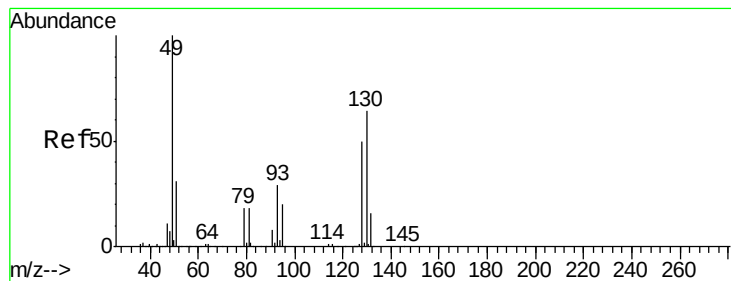
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL033643.D

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Instrument :

MSVOA_L

ClientSampleId :

A-9DL

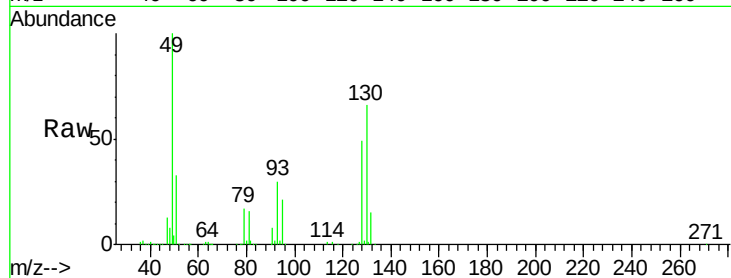
Tot Ion: 49 Resp: 912268

Ion Ratio Lower Upper

49 100

128 49.0 25.0 75.0

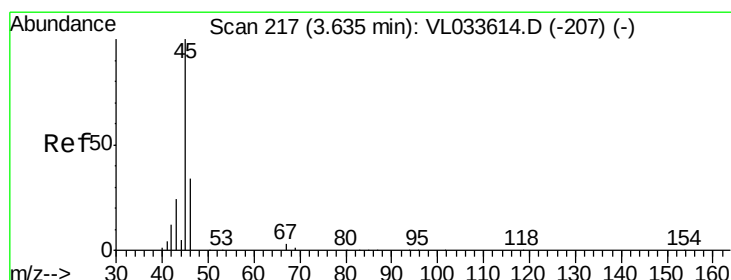
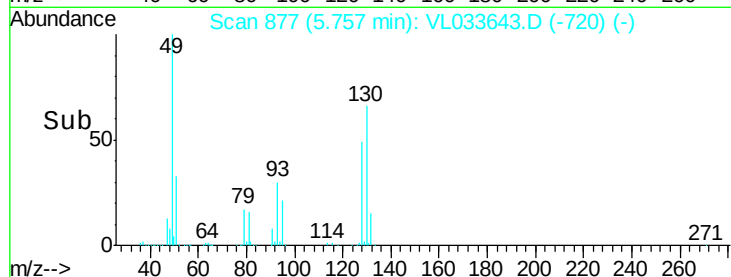
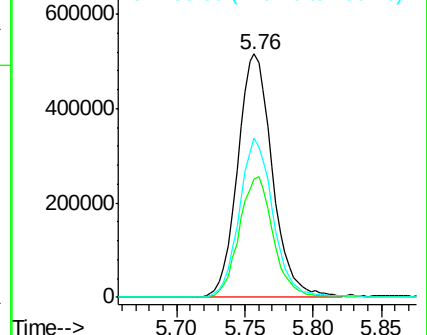
130 63.8 31.9 95.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#13

Ethanol

Concen: 4.211 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.02 min

Lab File: VL033643.D

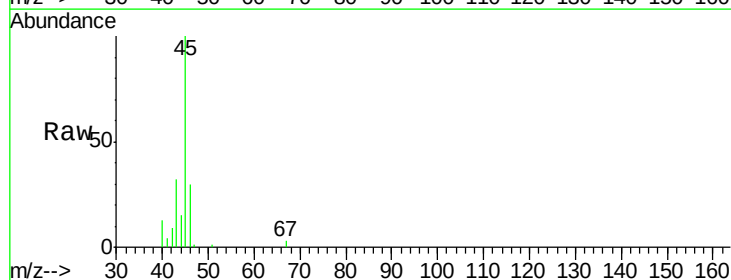
Acq: 3 May 2019 1:03

Tgt Ion: 45 Resp: 59634

Ion Ratio Lower Upper

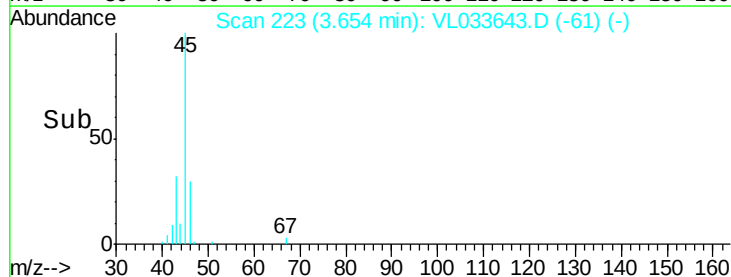
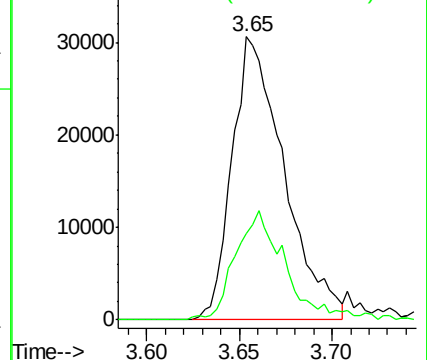
45 100

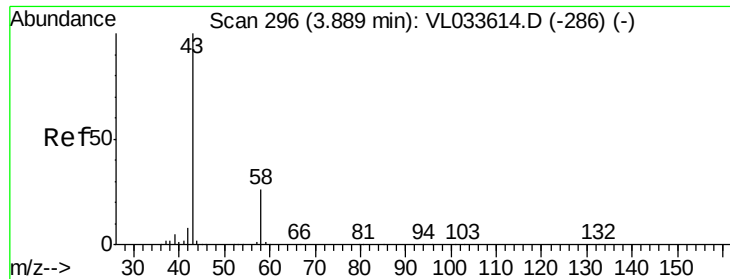
46 37.2 14.6 58.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.388 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.02 min

Lab File: VL033643.D

Acq: 3 May 2019 1:03

Instrument :

MSVOA_L

ClientSampleId :

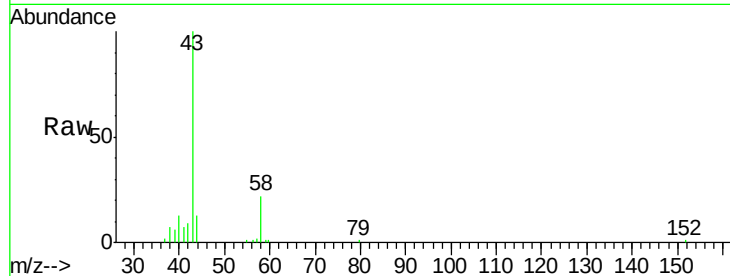
A-9DL

Tot Ion: 43 Resp: 43123

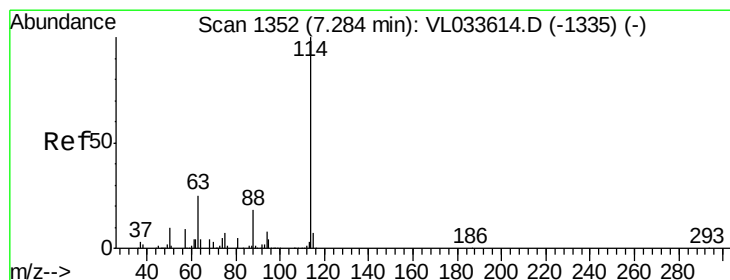
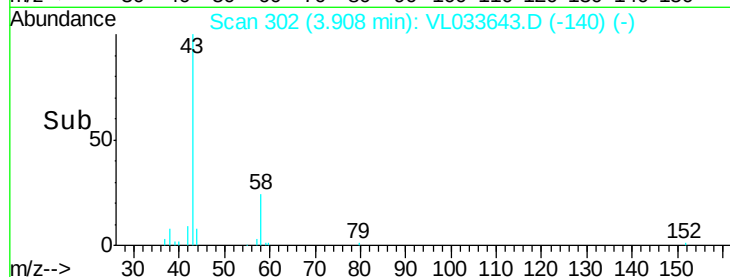
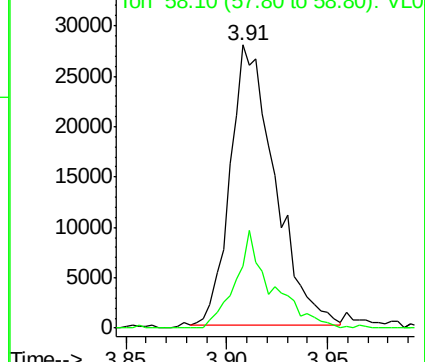
Ion Ratio Lower Upper

43 100

58 28.6 21.2 31.8



Abundance Ion 43.10 (42.80 to 43.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. 0.00 min

Lab File: VL033643.D

Acq: 3 May 2019 1:03

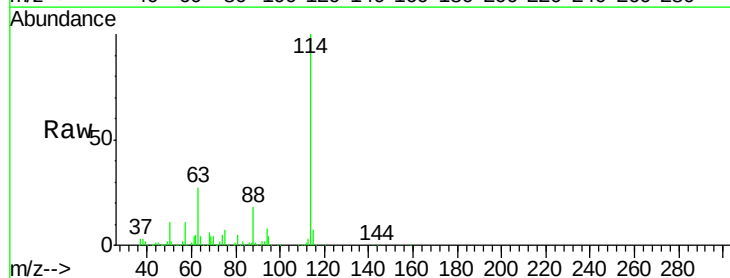
Tgt Ion: 114 Resp: 2173245

Ion Ratio Lower Upper

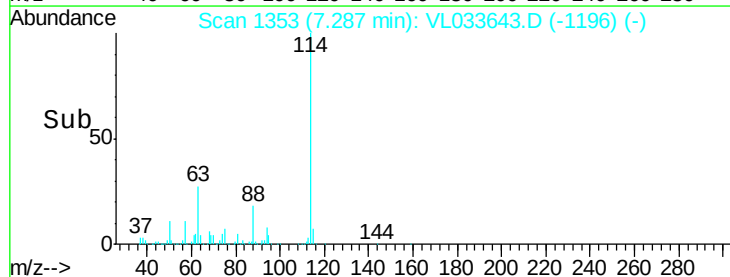
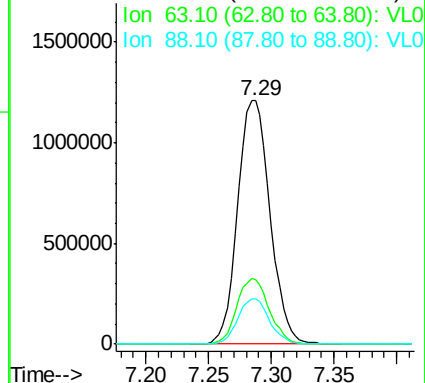
114 100

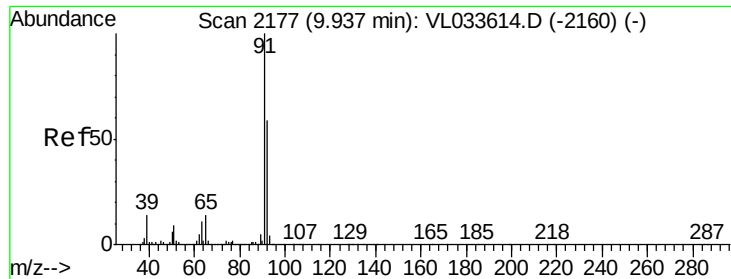
63 27.0 21.1 31.7

88 18.2 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): V





#53

Toluene

Concen: 0.260 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. 0.00 min

Lab File: VL033643.D

Acq: 3 May 2019 1:03

Instrument :

MSVOA_L

ClientSampleId :

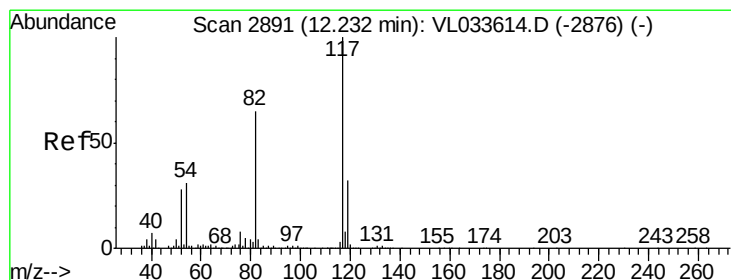
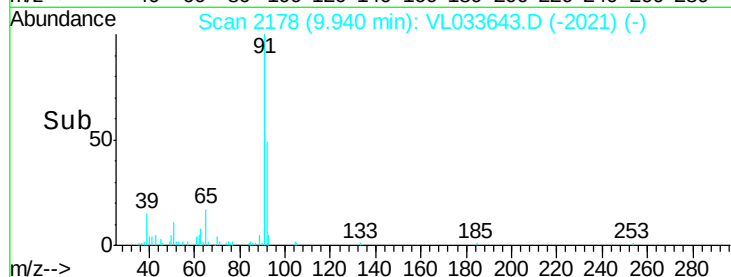
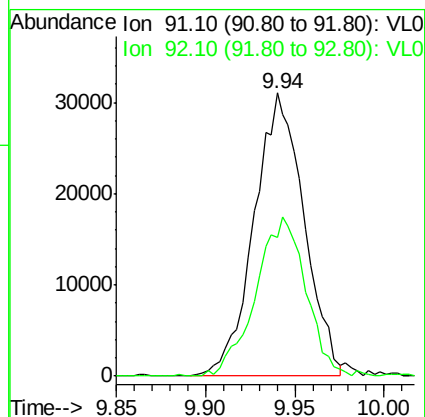
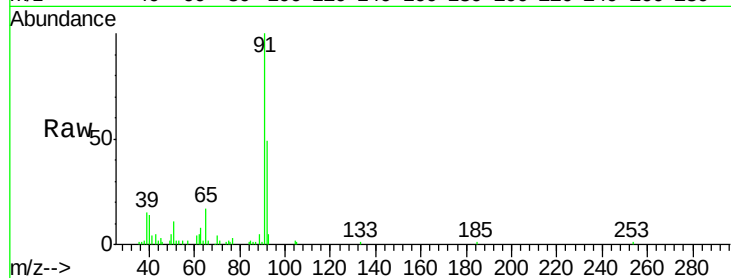
A-9DL

Tot Ion: 91 Resp: 60670

Ion Ratio Lower Upper

91 100

92 56.7 47.8 71.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. 0.00 min

Lab File: VL033643.D

Acq: 3 May 2019 1:03

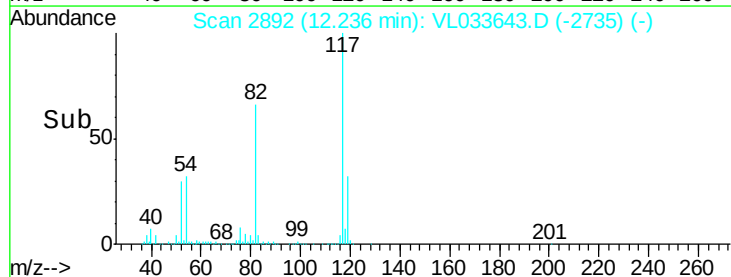
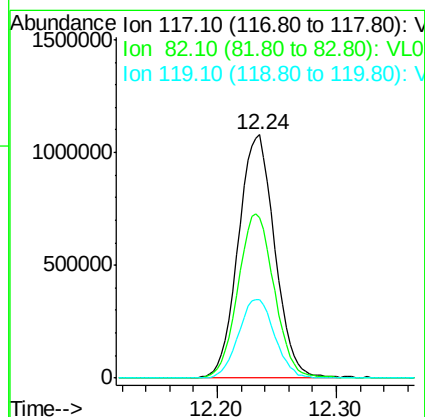
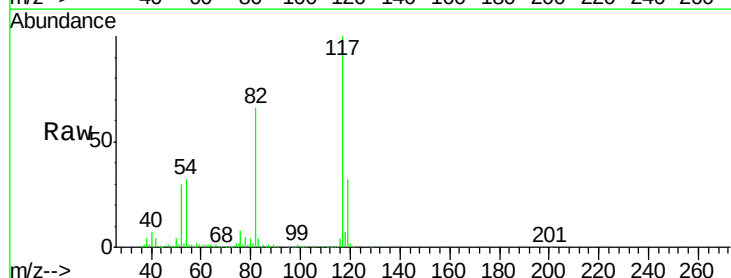
Tgt Ion: 117 Resp: 2284388

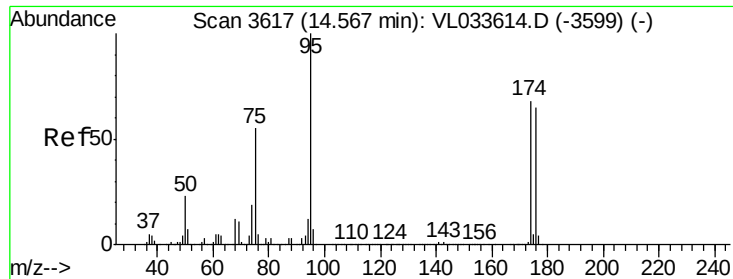
Ion Ratio Lower Upper

117 100

82 67.9 52.6 78.8

119 32.4 28.3 42.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.398 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. 0.00 min

Lab File: VL033643.D

Acq: 3 May 2019 1:03

Instrument :

MSVOA_L

ClientSampleId :

A-9DL

Tot Ion: 95 Resp: 1808319

Ion Ratio Lower Upper

95 100

174 66.5 53.9 80.9

175 4.8 4.0 6.0

