

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034394.D
 Acq On : 20 Nov 2019 00:52
 Operator : SY/AP
 Sample : K5924-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Quant Time: Nov 20 11:14:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 20 03:30:54 2019
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	967938	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1861109	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1864243	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1552134	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

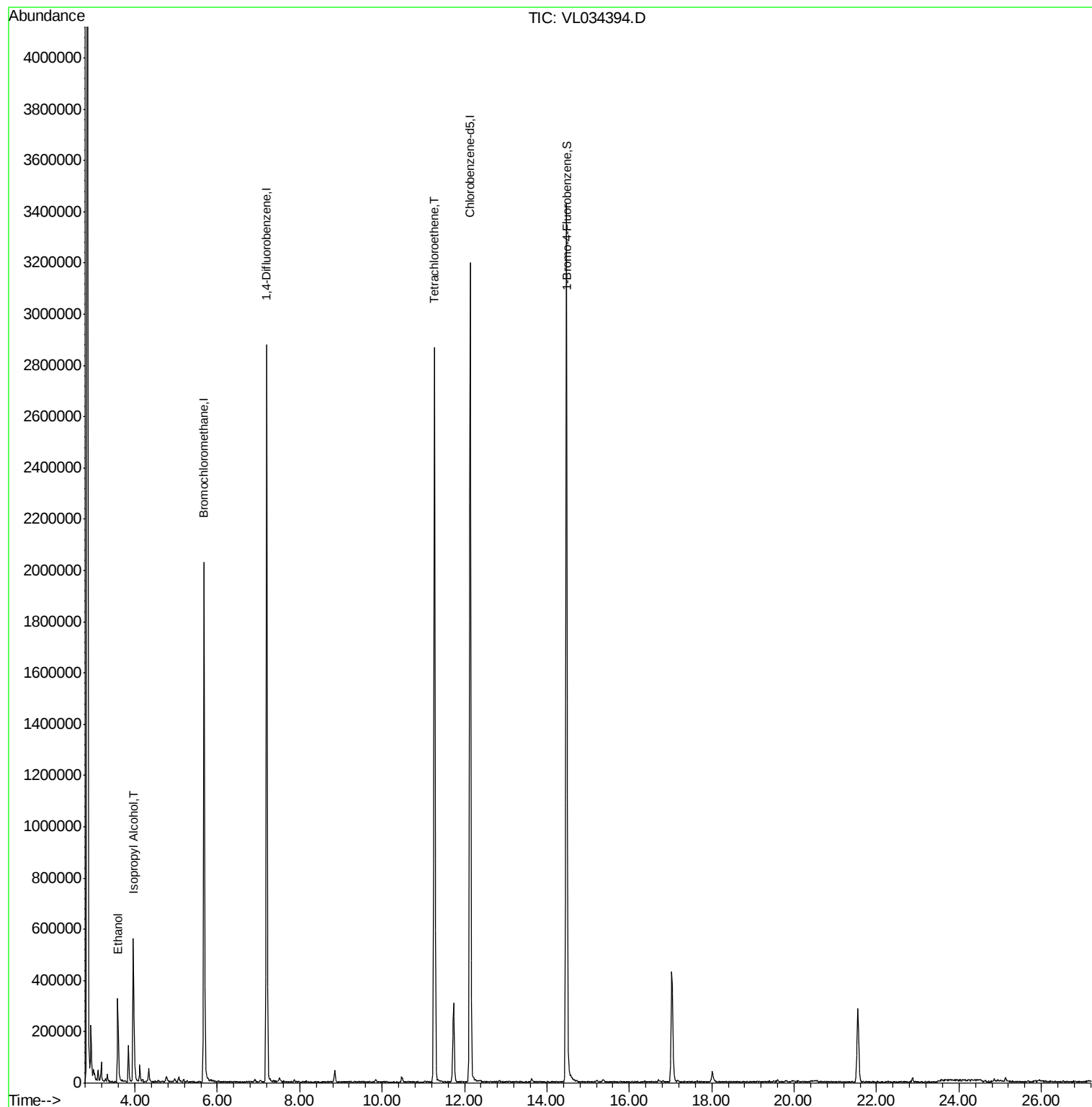
Target Compounds					Ovalue
13) Ethanol	3.58	45	311005	19.804	ppbv 95
19) Isopropyl Alcohol	3.96	45	632033	6.270	ppbv 99
52) Tetrachloroethene	11.28	164	674555	8.380	ppbv 94

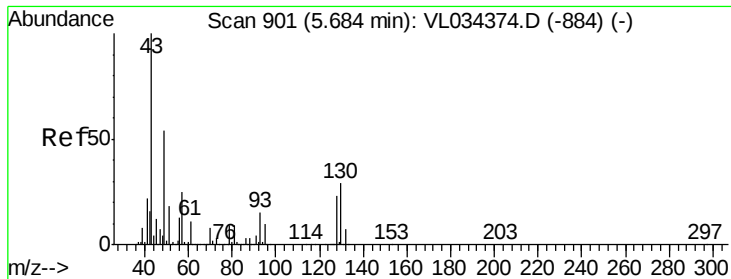
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

IA2DL

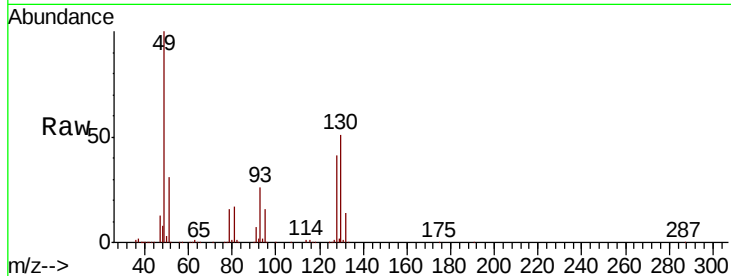
Tot Ion: 49 Resp: 967938

Ion Ratio Lower Upper

49 100

128 42.1 21.8 65.3

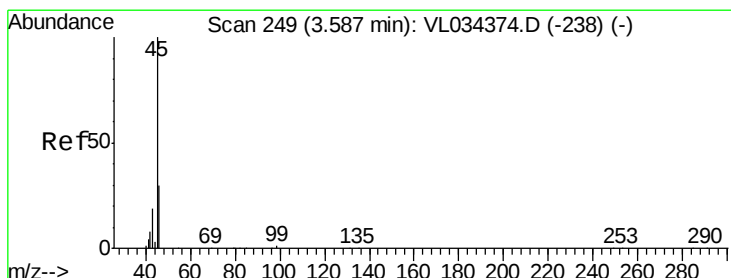
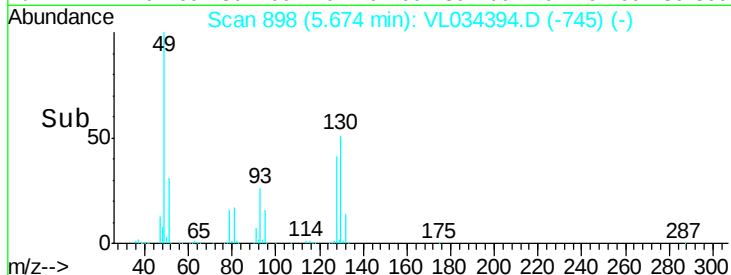
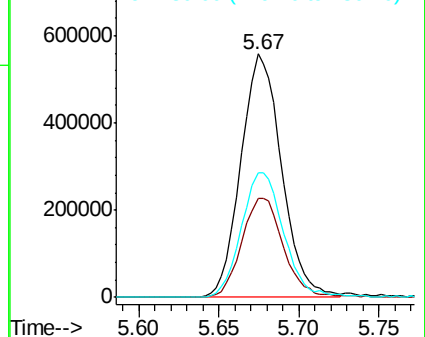
130 53.2 28.0 84.0



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: 19.804 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL034394.D

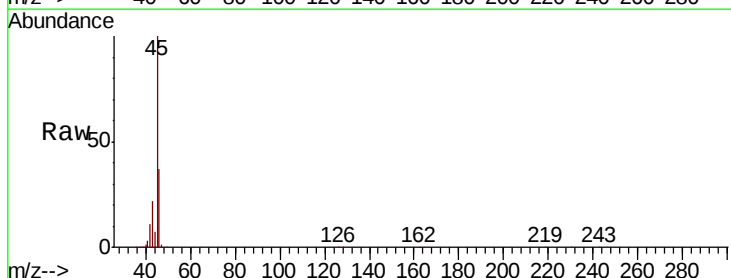
Acq: 20 Nov 2019 00:52

Tgt Ion: 45 Resp: 311005

Ion Ratio Lower Upper

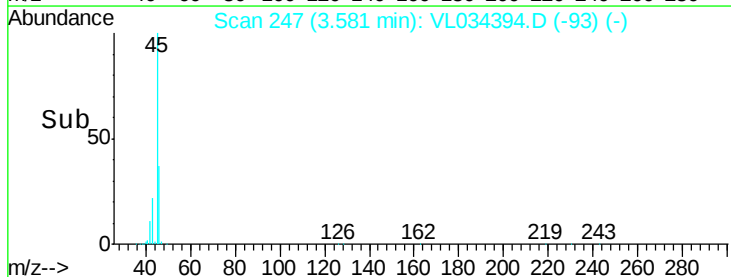
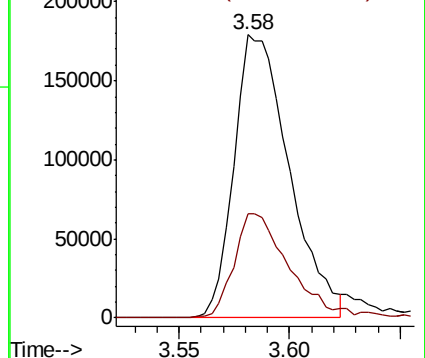
45 100

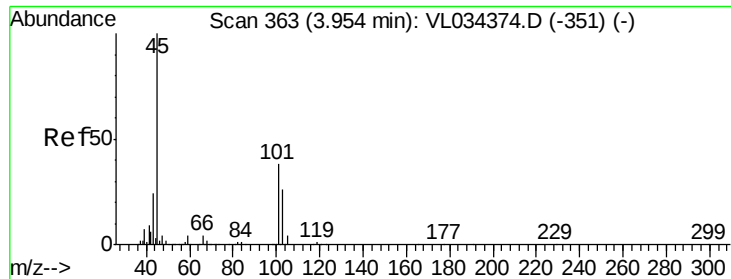
46 37.6 13.8 55.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#19

Isopropyl Alcohol

Concen: 6.270 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

Instrument :

MSVOA_L

ClientSampleId :

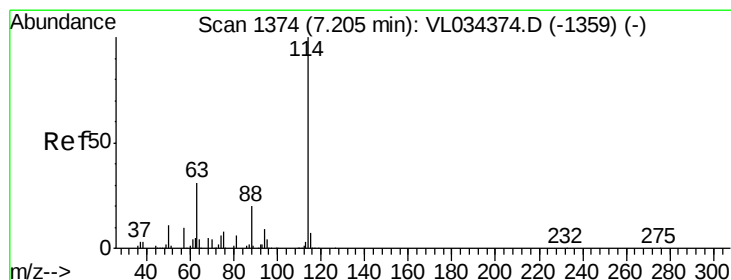
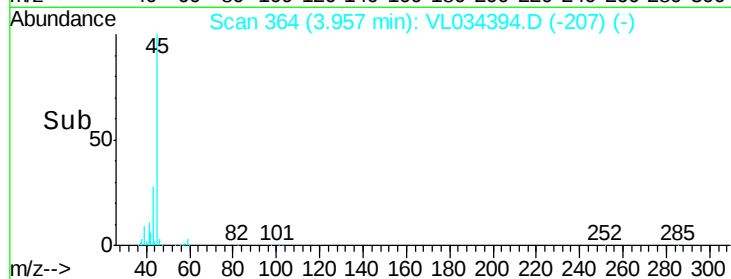
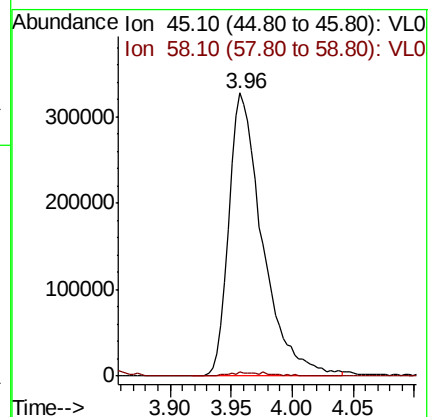
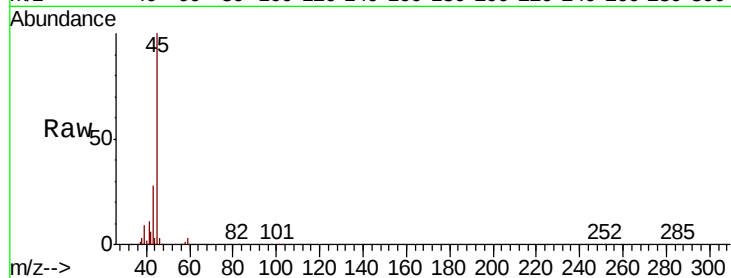
IA2DL

Tot Ion: 45 Resp: 632033

Ion Ratio Lower Upper

45 100

58 1.8 1.3 1.9



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.01 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

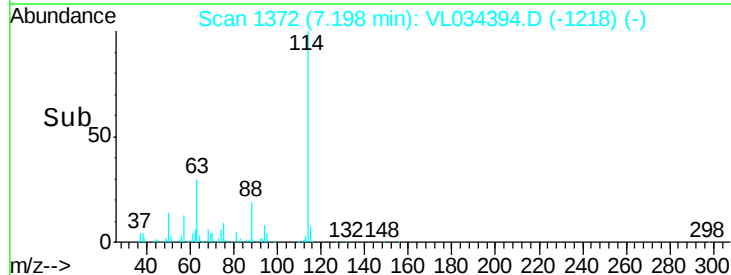
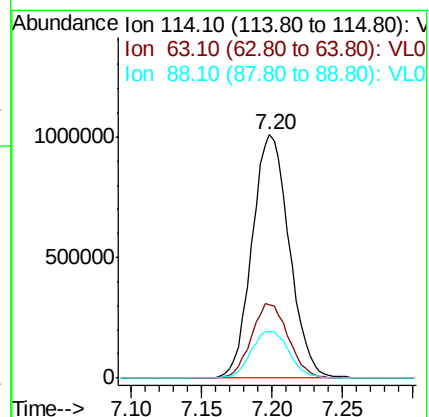
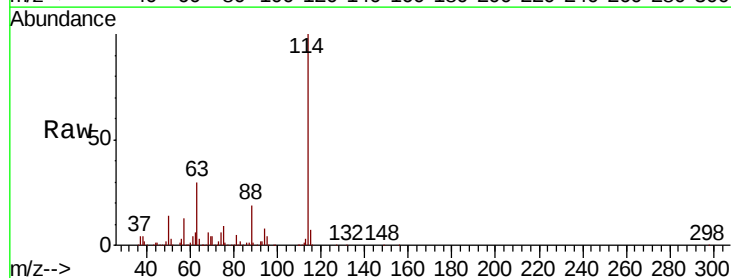
Tgt Ion: 114 Resp: 1861109

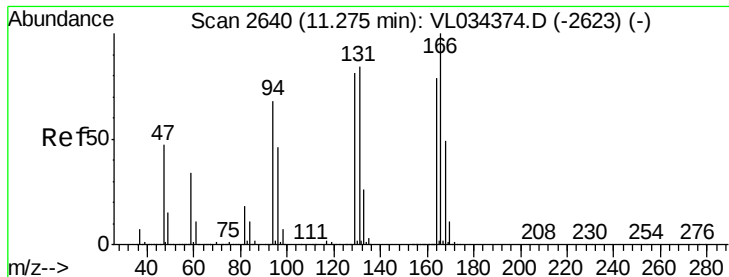
Ion Ratio Lower Upper

114 100

63 30.5 24.2 36.4

88 19.8 15.9 23.9





#52

Tetrachloroethene

Concen: 8.380 ppbv

RT: 11.28 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

Tot Ion:164 Resp: 674555

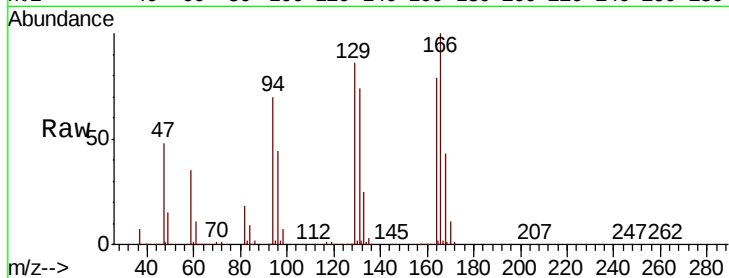
Ion Ratio Lower Upper

164 100

166 127.2 101.7 152.5

129 109.5 82.6 123.8

131 94.4 85.2 127.8

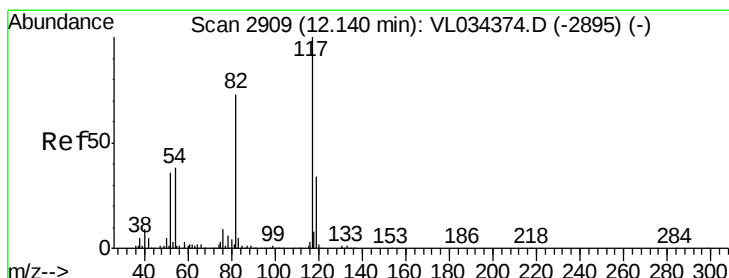
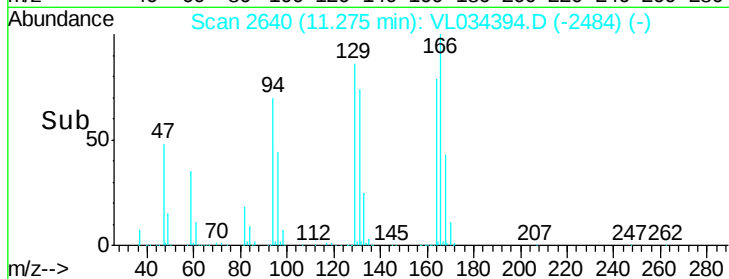
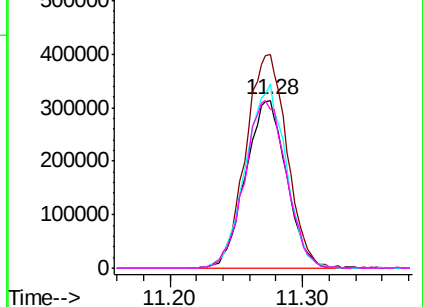


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.01 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

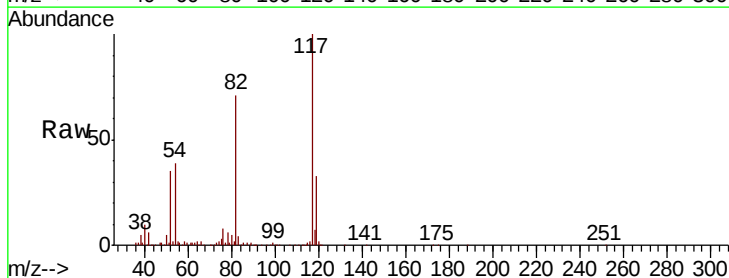
Tgt Ion:117 Resp: 1864243

Ion Ratio Lower Upper

117 100

82 71.7 57.5 86.3

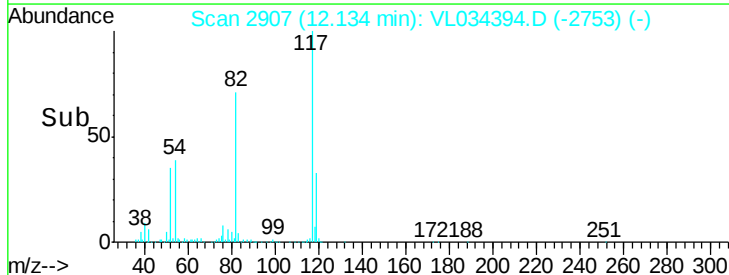
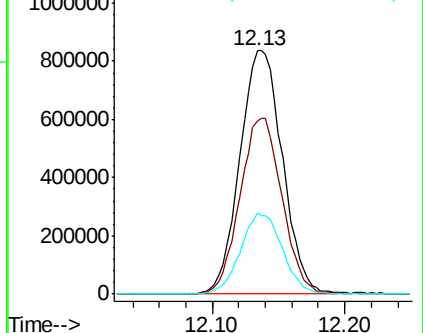
119 32.8 25.4 38.2

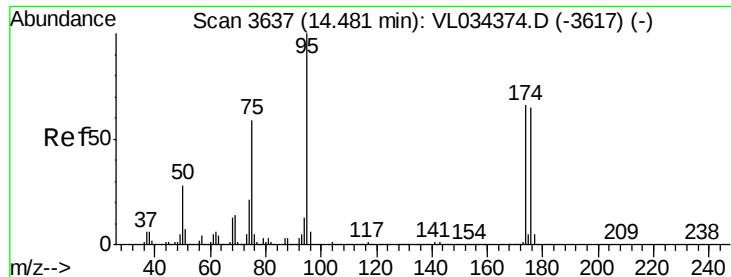


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.897 ppbv

RT: 14.47 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

Tot Ion: 95 Resp: 1552134

Ion Ratio Lower Upper

95 100

174 66.2 52.2 78.2

175 4.7 3.8 5.8

