

Data File : VL033541.D
Acq On : 4 Apr 2019 20:18
Operator : SY/AP
Sample : K2096-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
A-3DL

Quant Time: Apr 05 01:59:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1161112	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2705130	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2696885	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2125823	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	9802	0.058	ppbv	94
3) Chlorodifluoromethane	3.01	51	4694	0.035	ppbv #	86
4) Chloromethane	3.17	50	3489	0.049	ppbv	94
13) Ethanol	3.66	45	36361	2.503	ppbv	79
15) Acetone	3.91	43	48584	0.348	ppbv	95
20) Methylene Chloride	4.41	84	69719	1.176	ppbv	96
25) Ethyl Acetate	5.78	43	50678	0.196	ppbv #	87
26) Hexane	5.78	57	54989	0.477	ppbv #	46
39) 1,2-Dichloropropane	7.29	63	711449	8.002	ppbv #	23
41) Tetrahydrofuran	5.78	42	25417	0.284	ppbv #	48
53) Toluene	9.94	91	63955	0.242	ppbv	99

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

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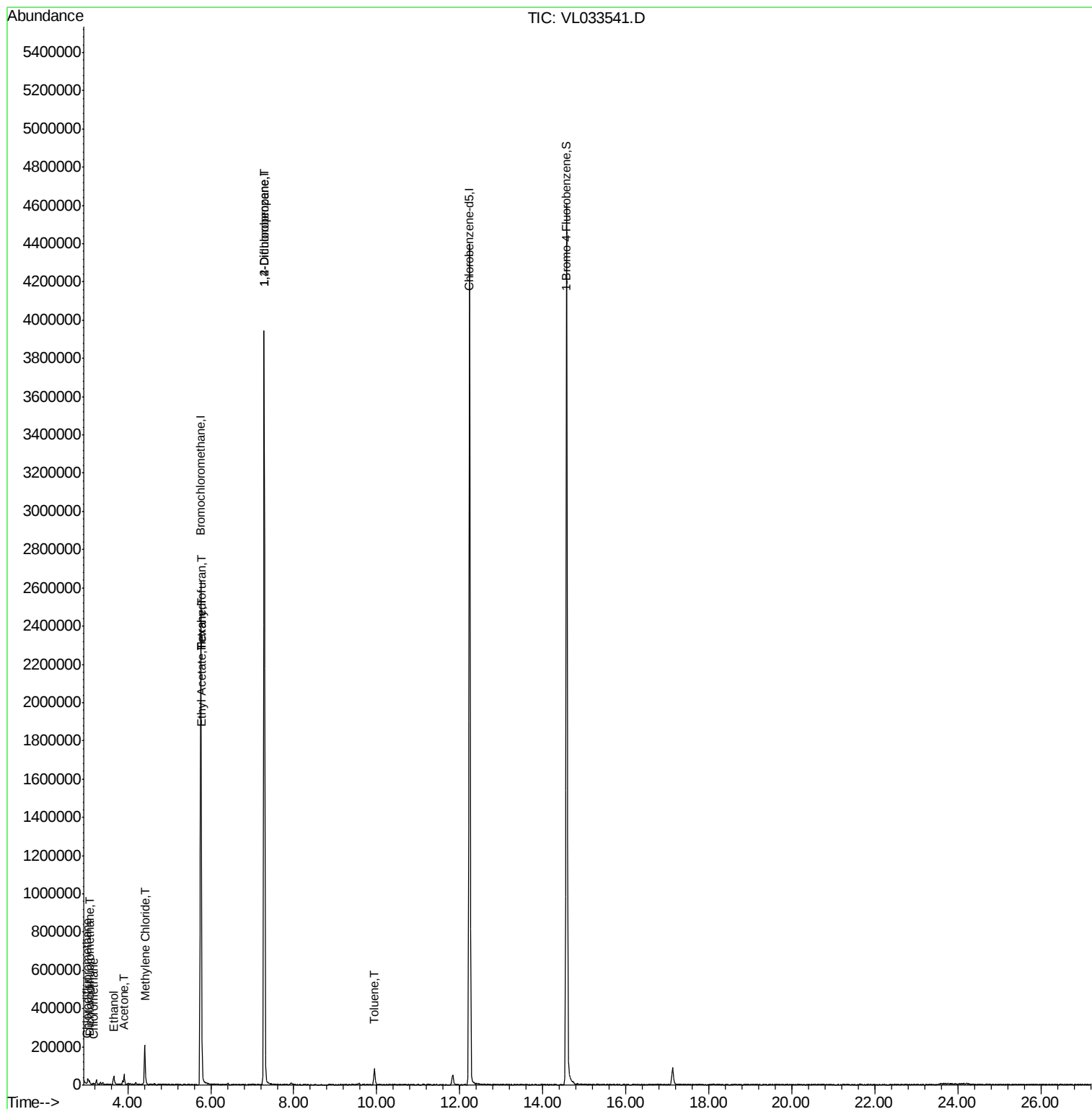
Quant Time: Apr 05 01:59:13 2019

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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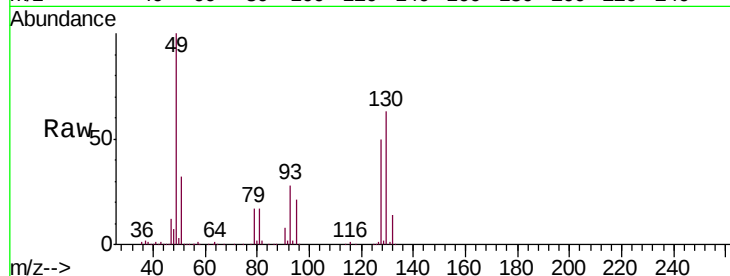
Tgt Ion: 49 Resp: 1161112

Ion Ratio Lower Upper

49 100

128 48.8 24.0 72.0

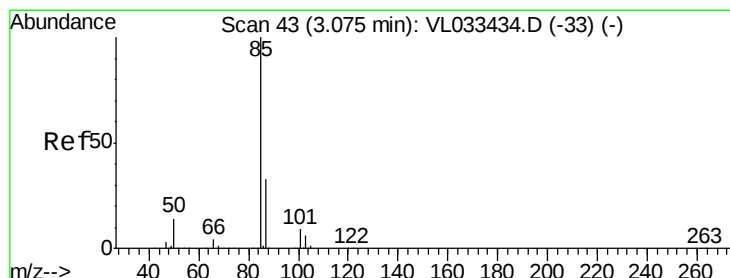
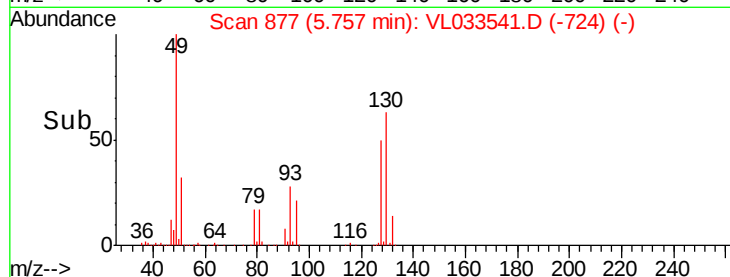
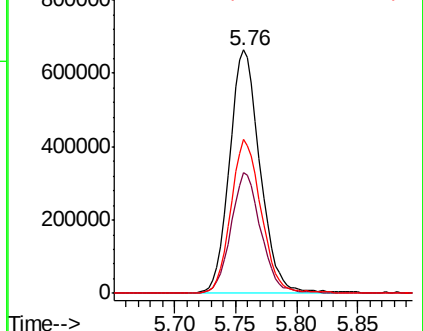
130 63.4 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.058 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033541.D

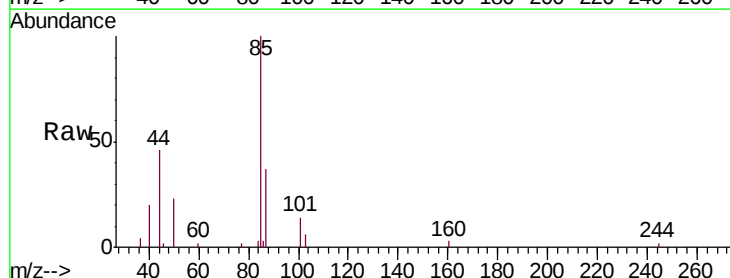
Acq: 4 Apr 2019 20:18

Tgt Ion: 85 Resp: 9802

Ion Ratio Lower Upper

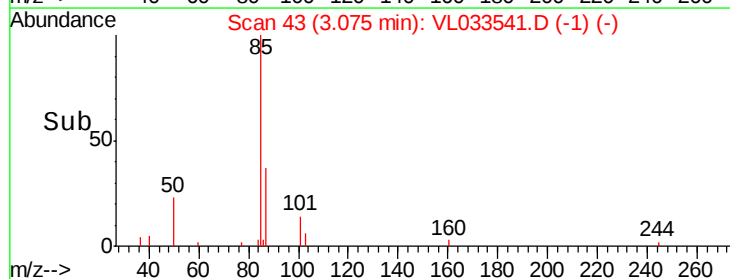
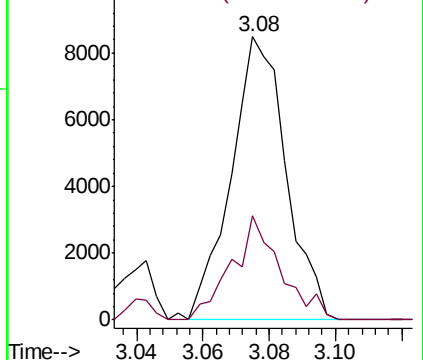
85 100

87 36.7 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

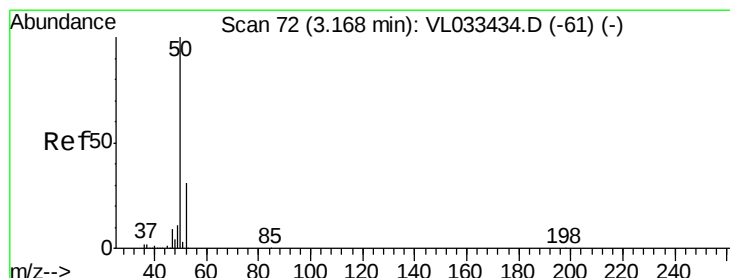
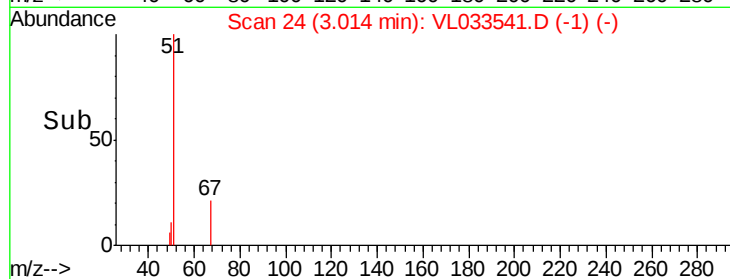
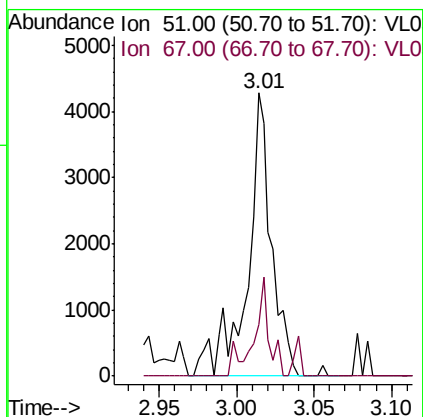
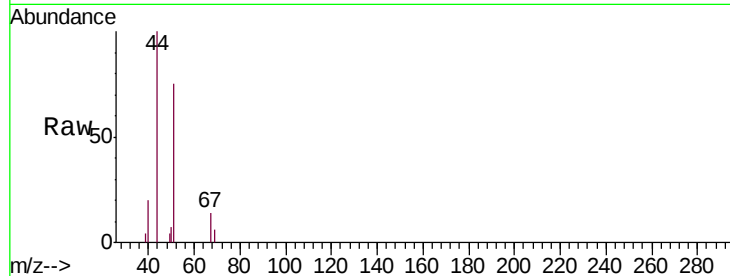




#3
Chlorodifluoromethane
Concen: 0.035 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033541.D
Acq: 4 Apr 2019 20:18

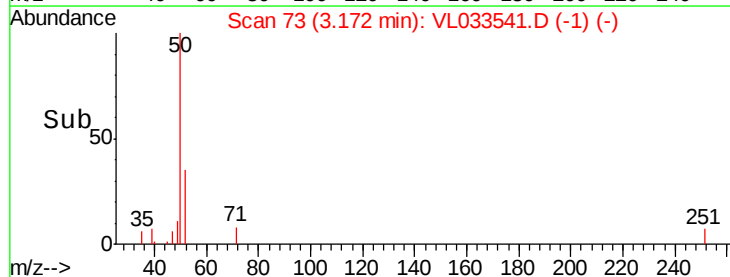
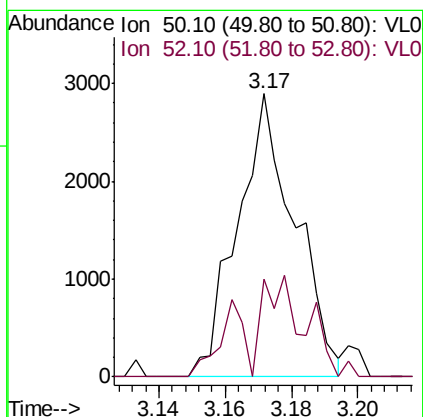
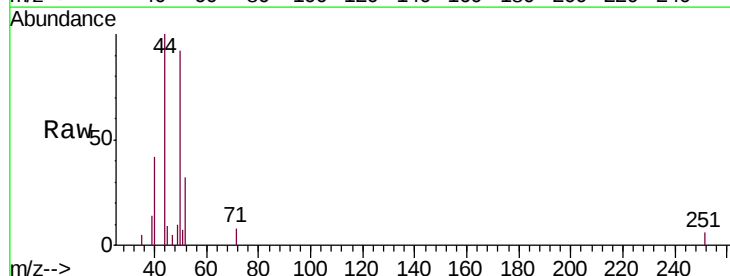
Instrument :
MSVOA_L
ClientSampleId :
A-3DL

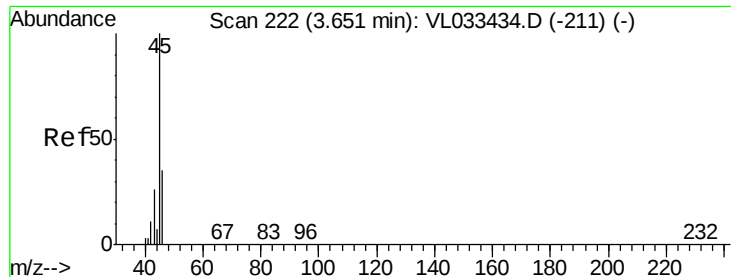
Tgt Ion: 51 Resp: 4694
Ion Ratio Lower Upper
51 100
67 26.0 15.7 23.5#



#4
Chloromethane
Concen: 0.049 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033541.D
Acq: 4 Apr 2019 20:18

Tgt Ion: 50 Resp: 3489
Ion Ratio Lower Upper
50 100
52 34.6 25.0 37.6





#13

Ethanol

Concen: 2.503 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033541.D

Acq: 4 Apr 2019 20:18

Instrument :

MSVOA_L

ClientSampleId :

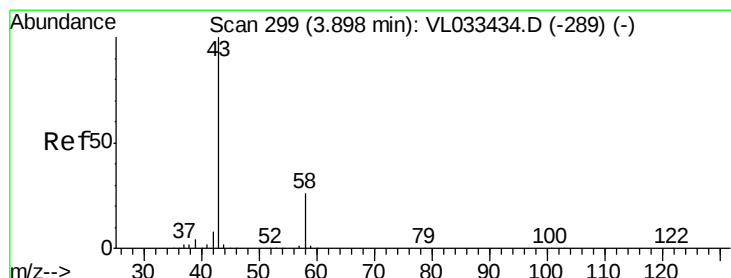
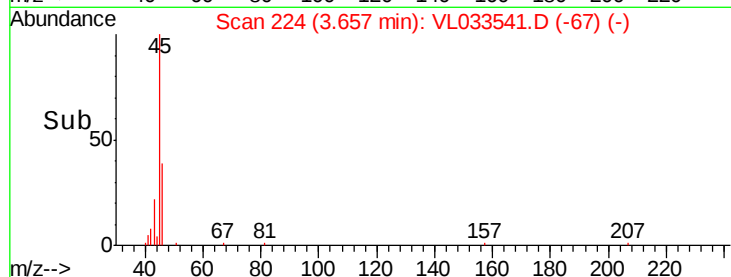
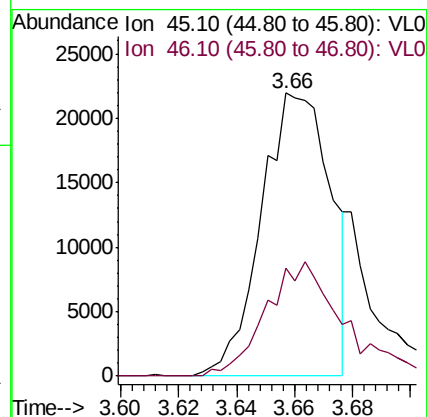
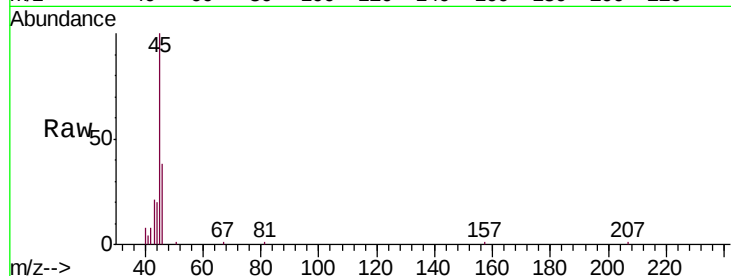
A-3DL

Tgt Ion: 45 Resp: 36361

Ion Ratio Lower Upper

45 100

46 47.0 25.4 101.8



#15

Acetone

Concen: 0.348 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033541.D

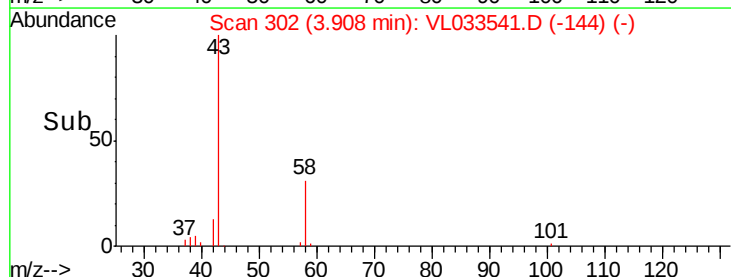
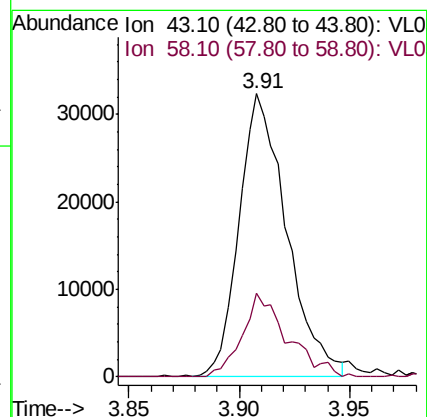
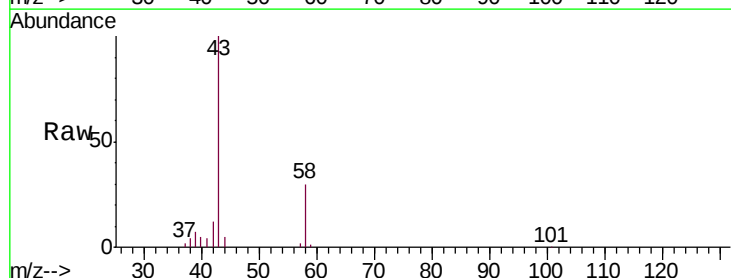
Acq: 4 Apr 2019 20:18

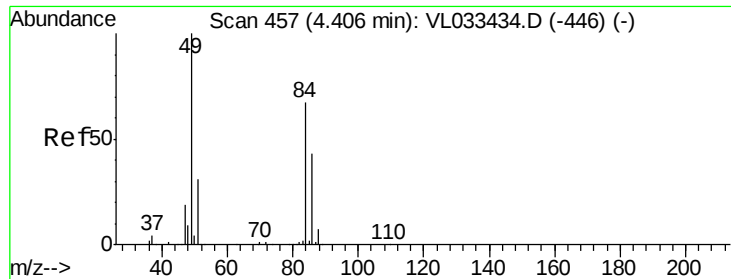
Tgt Ion: 43 Resp: 48584

Ion Ratio Lower Upper

43 100

58 28.0 20.5 30.7

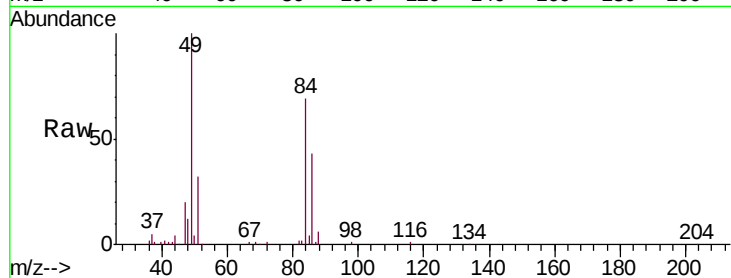




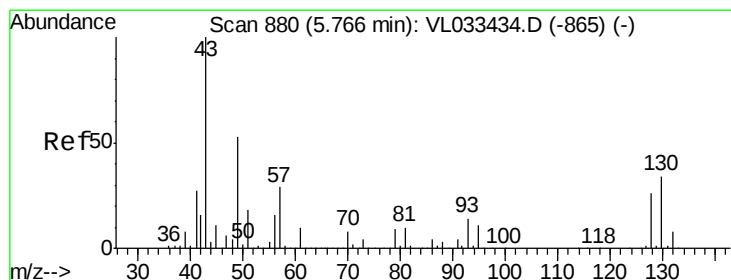
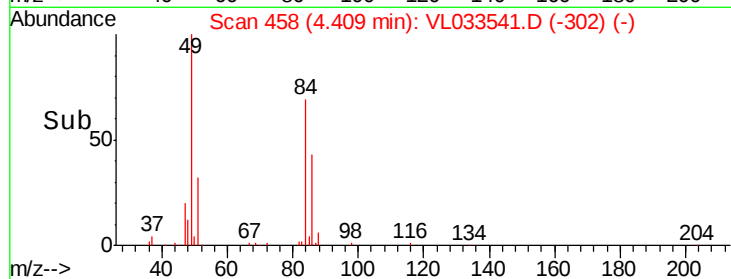
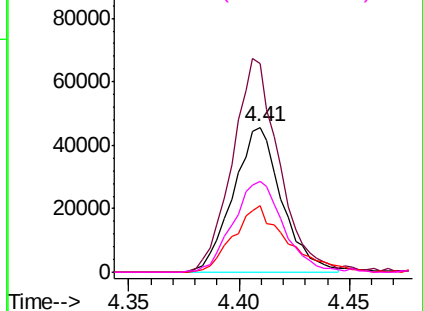
#20
Methylene Chloride
Concen: 1.176 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033541.D
Acq: 4 Apr 2019 20:18

Instrument :
MSVOA_L
ClientSampleId :
A-3DL

Tgt Ion: 84 Resp: 69719
Ion Ratio Lower Upper
84 100
49 143.2 120.0 180.0
51 46.2 36.7 55.1
86 61.9 51.9 77.9

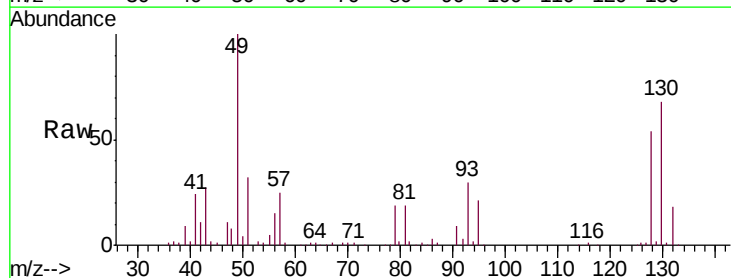


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

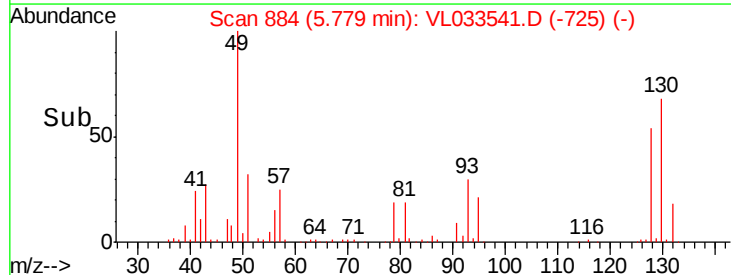
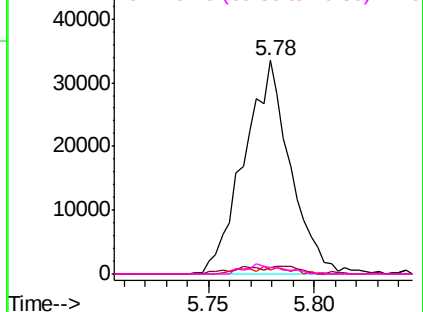


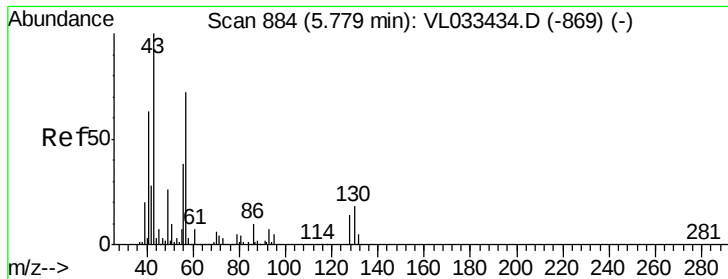
#25
Ethyl Acetate
Concen: 0.196 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033541.D
Acq: 4 Apr 2019 20:18

Tgt Ion: 43 Resp: 50678
Ion Ratio Lower Upper
43 100
45 5.3 7.8 11.6#
61 3.3 7.3 10.9#
70 3.6 5.6 8.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 0.477 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033541.D

Acq: 4 Apr 2019 20:18

Instrument :

MSVOA_L

ClientSampleId :

A-3DL

Tgt Ion: 57 Resp: 54989

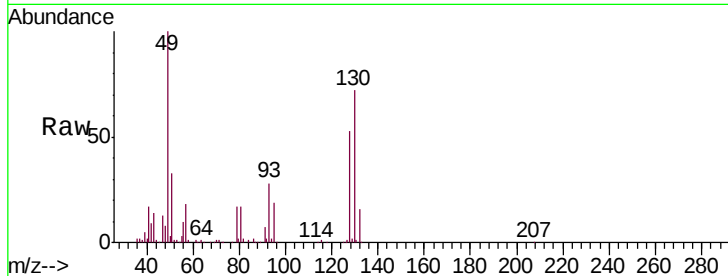
Ion Ratio Lower Upper

57 100

41 98.8 70.7 106.1

43 93.3 182.6 274.0#

56 56.5 42.0 63.0

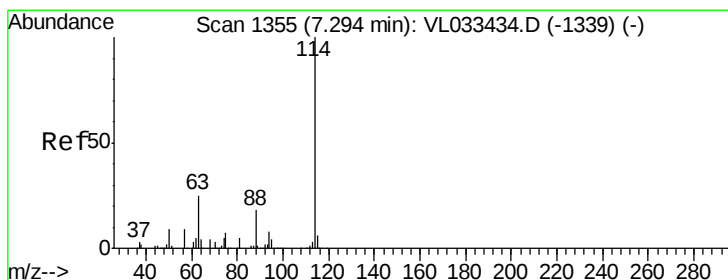
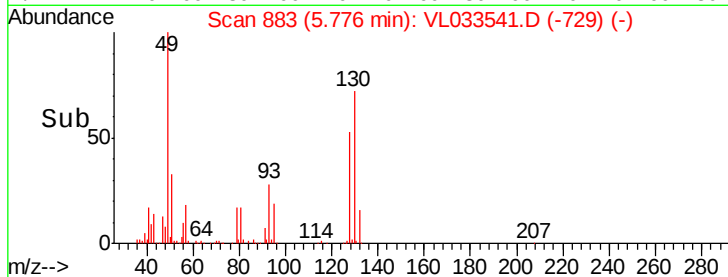
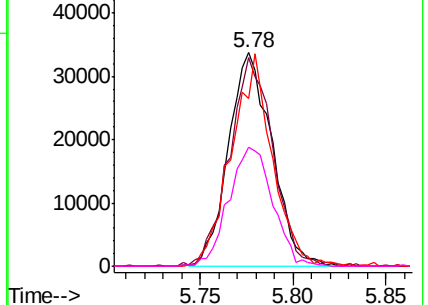


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033541.D

Acq: 4 Apr 2019 20:18

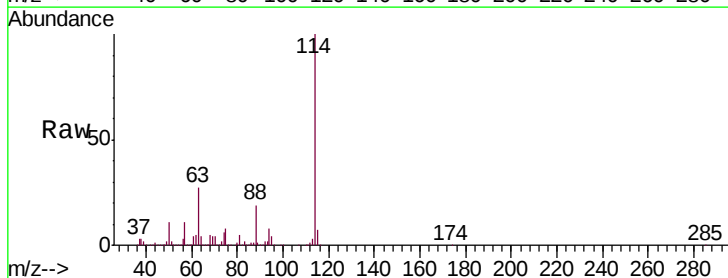
Tgt Ion:114 Resp: 2705130

Ion Ratio Lower Upper

114 100

63 26.5 21.5 32.3

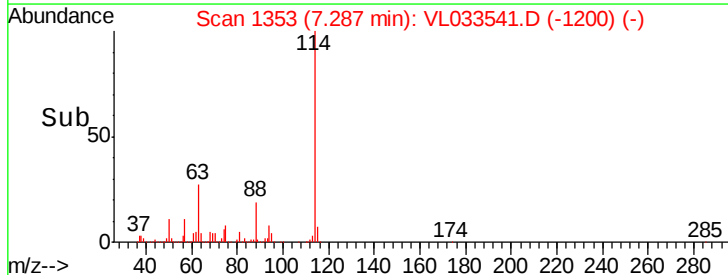
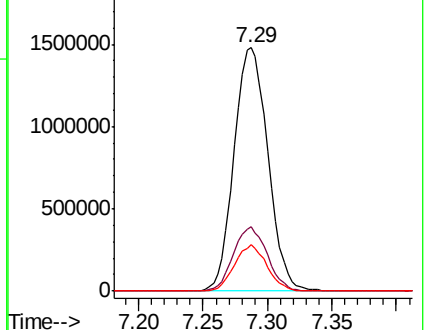
88 18.4 14.5 21.7

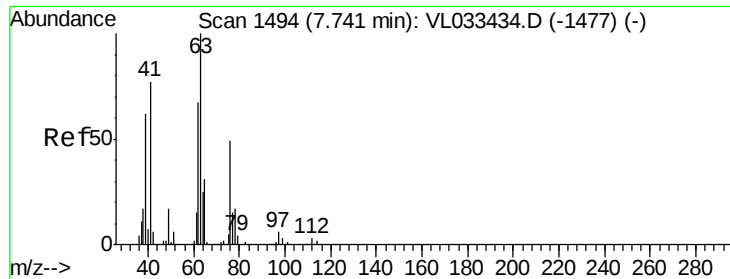


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

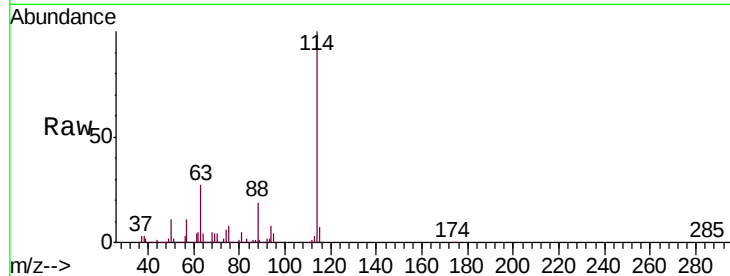




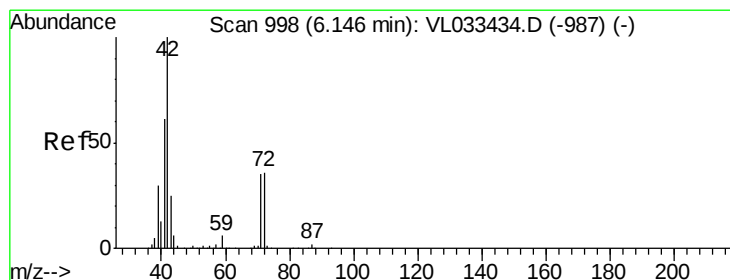
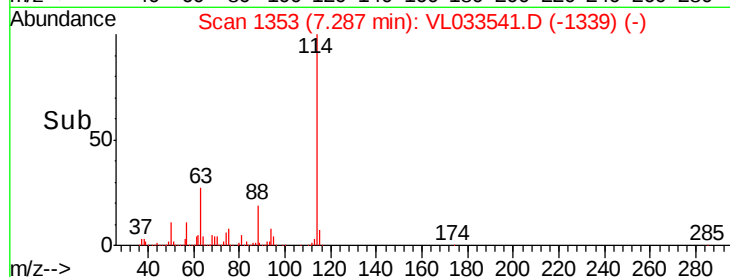
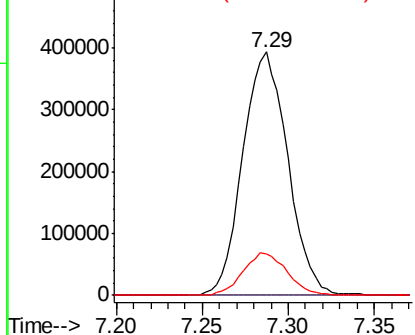
#39
 1,2-Dichloropropane
 Concen: 8.002 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033541.D
 Acq: 4 Apr 2019 20:18

Instrument :
 MSVOA_L
 ClientSampleId :
 A-3DL

Tgt Ion: 63 Resp: 711449
 Ion Ratio Lower Upper
 63 100
 41 0.1 61.2 91.8#
 62 17.1 54.0 81.0#

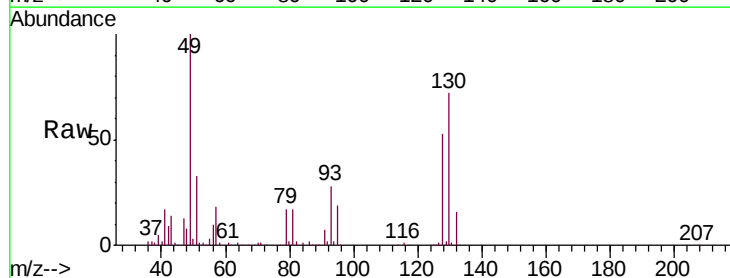


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

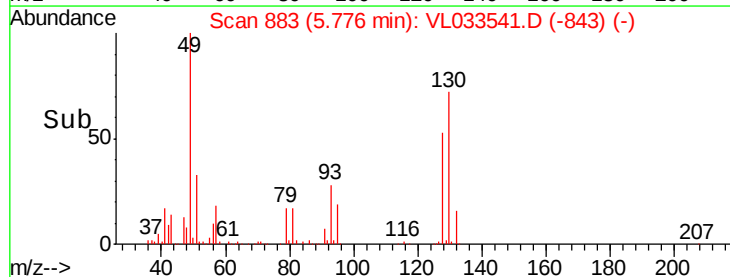
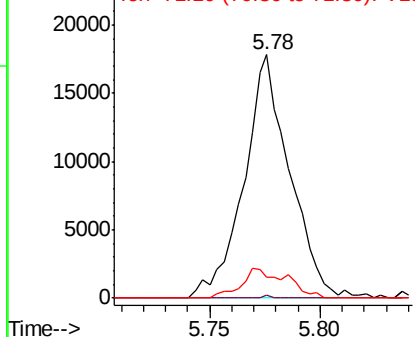


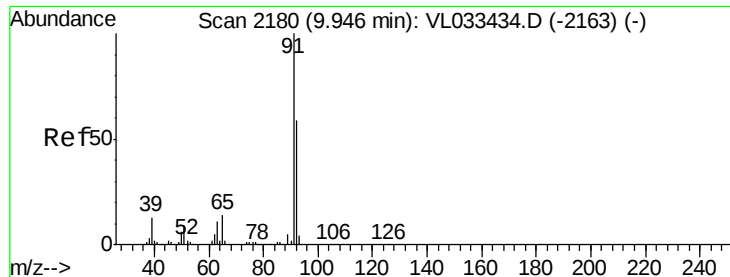
#41
 Tetrahydrofuran
 Concen: 0.284 ppbv
 RT: 5.78 min Scan# 883
 Delta R.T. -0.37 min
 Lab File: VL033541.D
 Acq: 4 Apr 2019 20:18

Tgt Ion: 42 Resp: 25417
 Ion Ratio Lower Upper
 42 100
 72 0.1 30.2 45.2#
 71 12.1 29.4 44.2#



Abundance Ion 42.10 (41.80 to 42.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0
 Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.242 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033541.D

Acq: 4 Apr 2019 20:18

Instrument :

MSVOA_L

ClientSampleId :

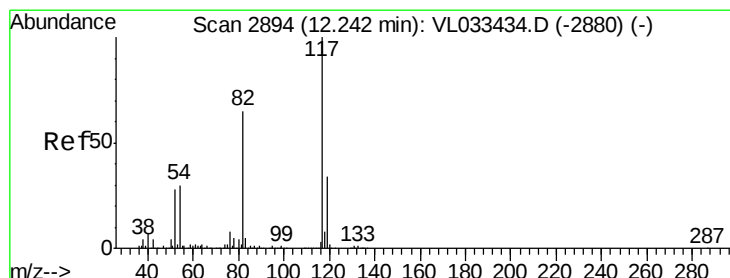
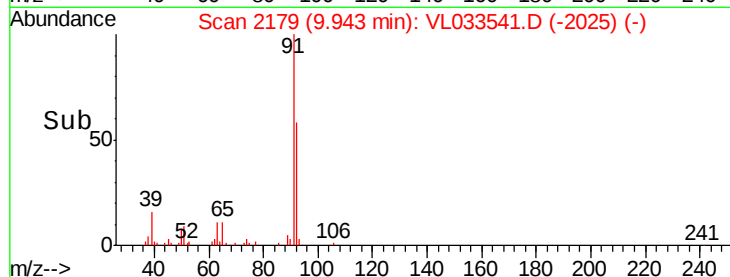
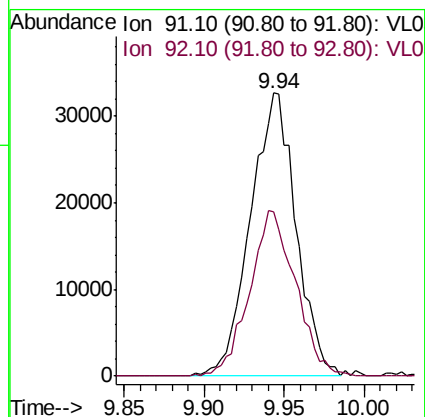
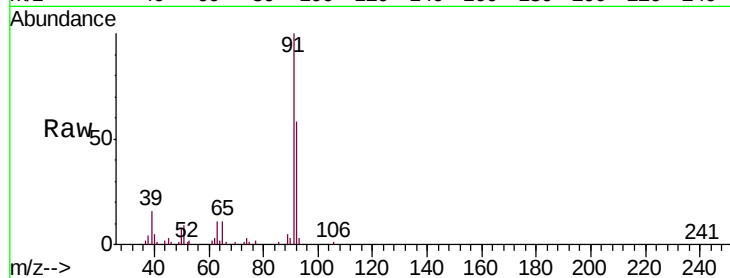
A-3DL

Tgt Ion: 91 Resp: 63955

Ion Ratio Lower Upper

91 100

92 58.8 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033541.D

Acq: 4 Apr 2019 20:18

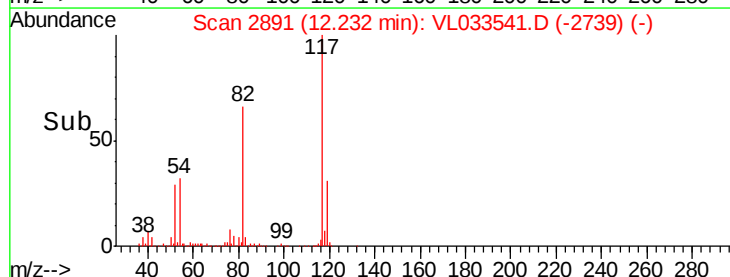
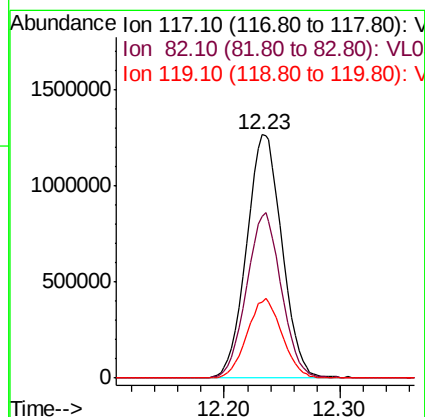
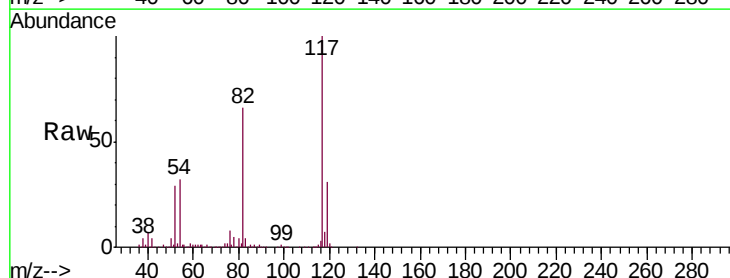
Tgt Ion: 117 Resp: 2696885

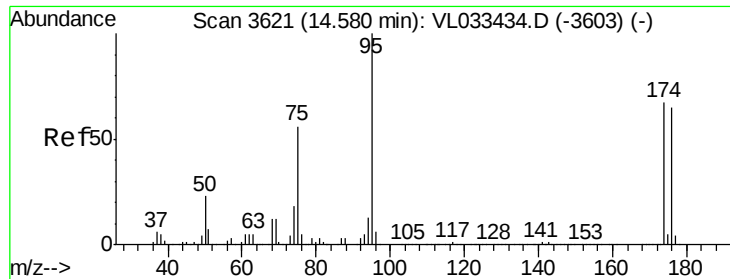
Ion Ratio Lower Upper

117 100

82 67.0 51.5 77.3

119 32.5 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.055 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033541.D

Acq: 4 Apr 2019 20:18

Instrument :

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ClientSampleId :

A-3DL

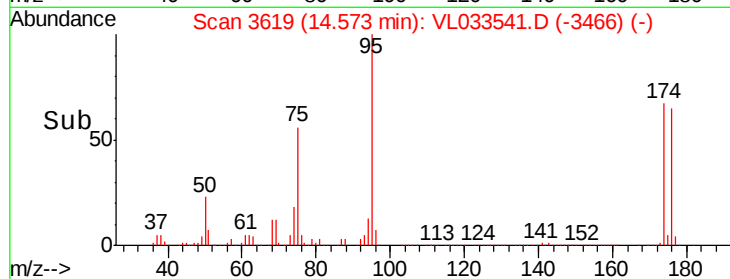
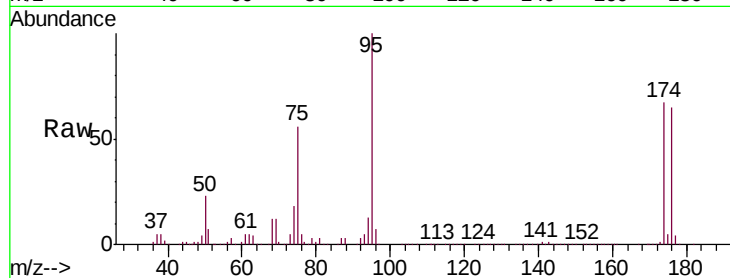
Tgt Ion: 95 Resp: 2125823

Ion Ratio Lower Upper

95 100

174 66.9 52.9 79.3

175 4.9 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

