

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033350.D
 Acq On : 16 Mar 2019 3:44
 Operator : SY/AP
 Sample : K1827-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 16 06:48:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	750672	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1688849	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1874739	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1439516	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

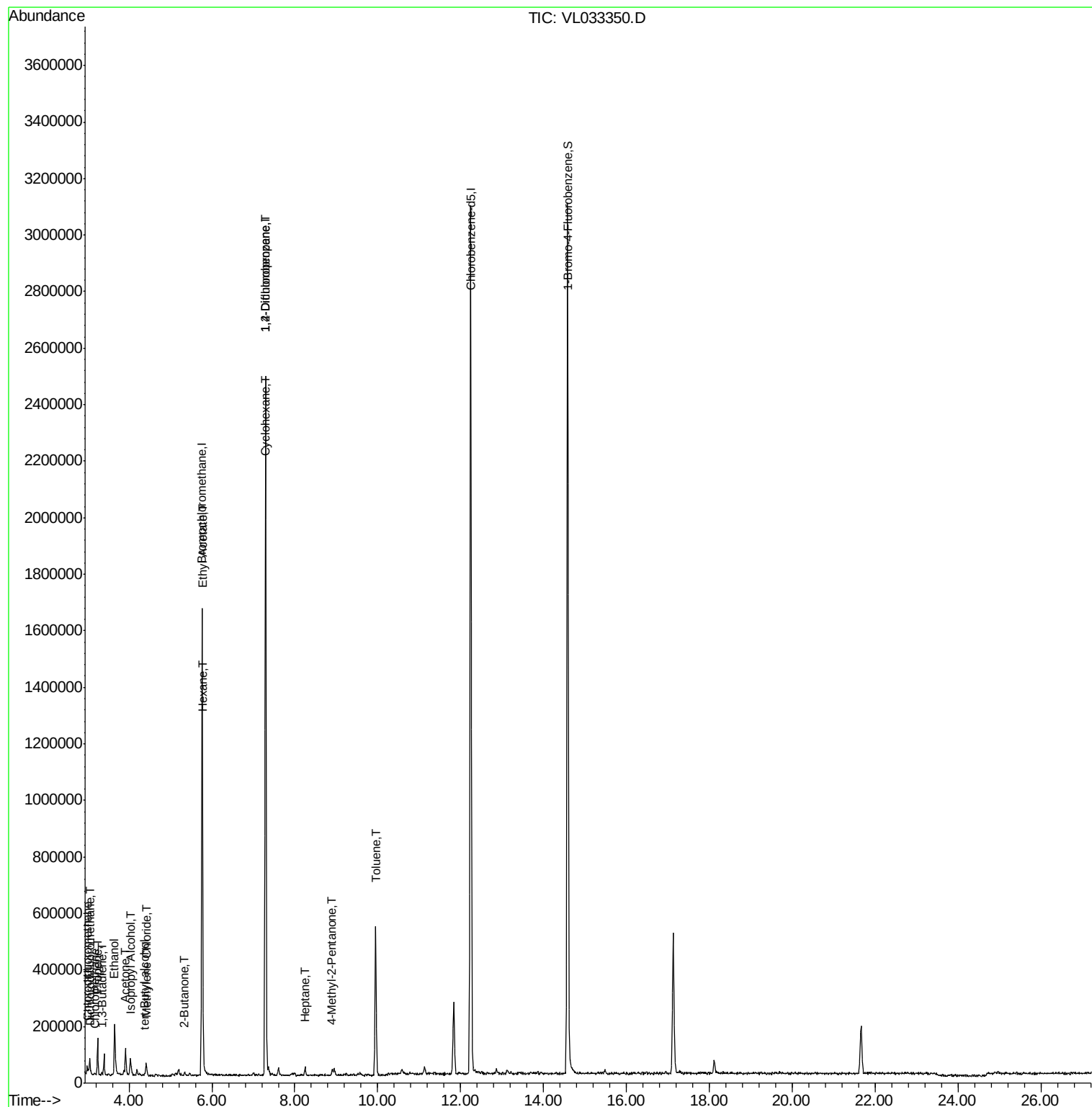
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	8153	0.062 ppbv	96
3) Chlorodifluoromethane	2.99	51	29118	0.338 ppbv #	80
4) Chloromethane	3.17	50	2448	0.052 ppbv #	44
9) Propene	3.24	41	35338	0.919 ppbv	96
10) Heptane	8.25	43	4991	0.052 ppbv #	27
13) Ethanol	3.65	45	204574	11.157 ppbv	98
15) Acetone	3.91	43	93818	0.804 ppbv	98
16) 1,3-Butadiene	3.35	39	2388	0.063 ppbv #	2
17) tert-Butyl alcohol	4.36	59	392	0.024 ppbv #	74
19) Isopropyl Alcohol	4.04	45	68836	1.240 ppbv #	94
20) Methylene Chloride	4.42	84	13951	0.367 ppbv	83
25) Ethyl Acetate	5.78	43	18255	0.108 ppbv #	75
26) Hexane	5.78	57	15790	0.208 ppbv #	86
30) Cyclohexane	7.27	84	2213	0.036 ppbv #	1
34) 2-Butanone	5.34	43	5527	0.050 ppbv #	54
39) 1,2-Dichloropropane	7.29	63	454677	8.033 ppbv #	24
50) 4-Methyl-2-Pentanone	8.89	43	6194	0.040 ppbv #	23
53) Toluene	9.95	91	383737	2.234 ppbv	99

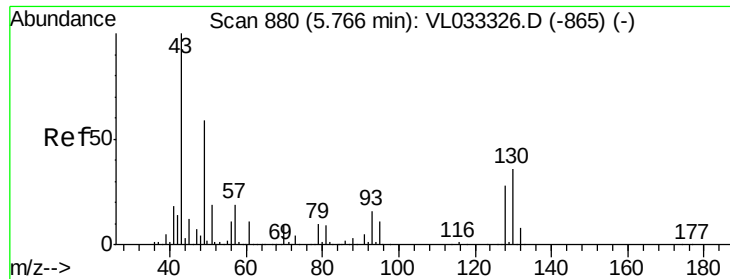
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033350.D

Acq: 16 Mar 2019 3:44

Instrument :

MSVOA_L

ClientSampleId :

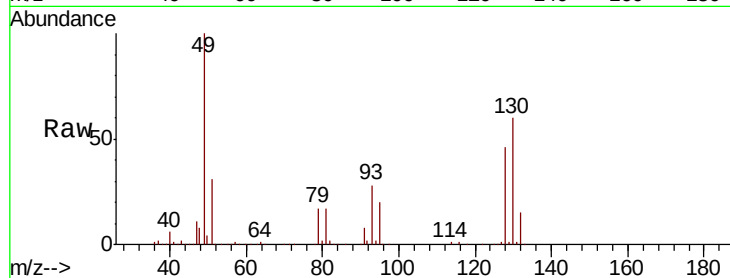
Tot Ion: 49 Resp: 750672

Ion Ratio Lower Upper

49 100

128 46.7 23.5 70.6

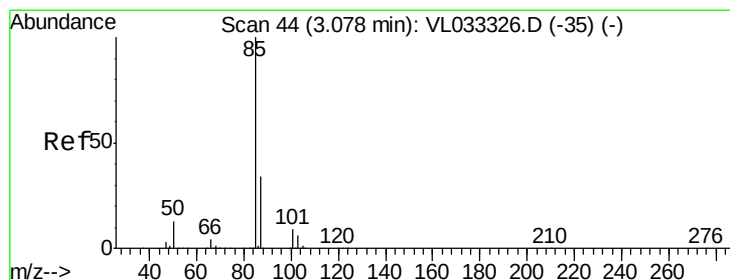
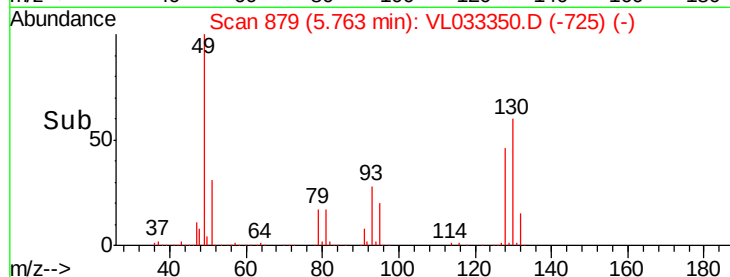
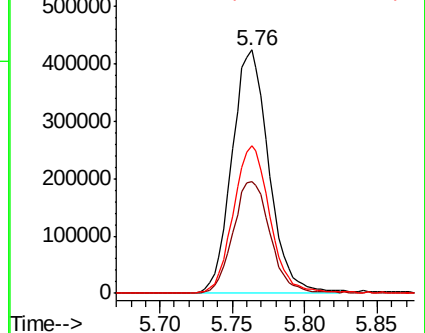
130 60.8 30.1 90.3



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: 0.062 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033350.D

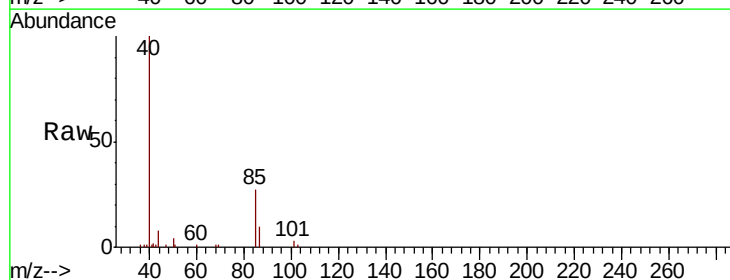
Acq: 16 Mar 2019 3:44

Tgt Ion: 85 Resp: 8153

Ion Ratio Lower Upper

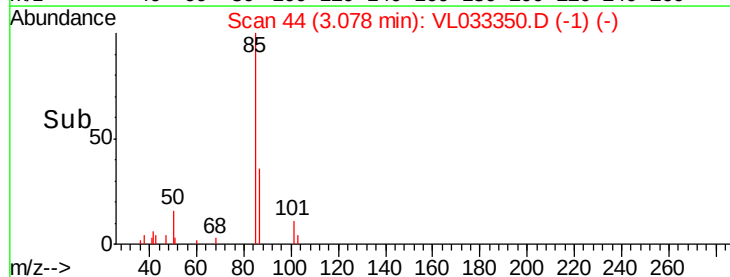
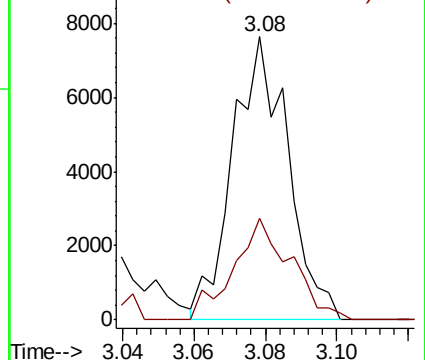
85 100

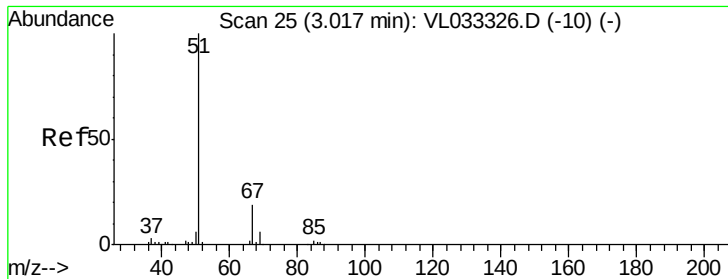
87 35.9 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.338 ppbv

RT: 2.99 min Scan# 17

Delta R.T. -0.03 min

Lab File: VL033350.D

Acq: 16 Mar 2019 3:44

Instrument :

MSVOA_L

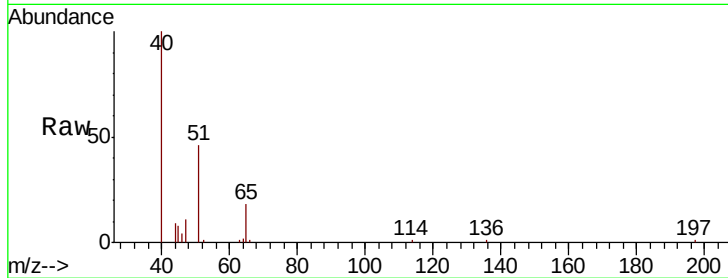
ClientSampleId :

Tot Ion: 51 Resp: 29118

Ion Ratio Lower Upper

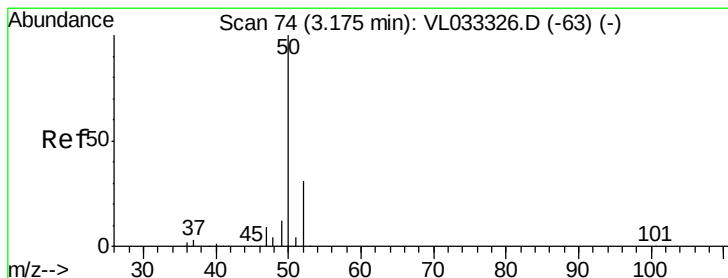
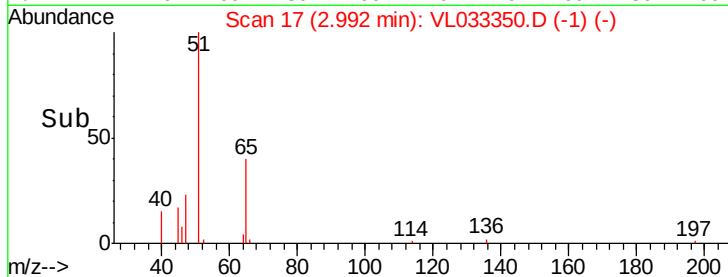
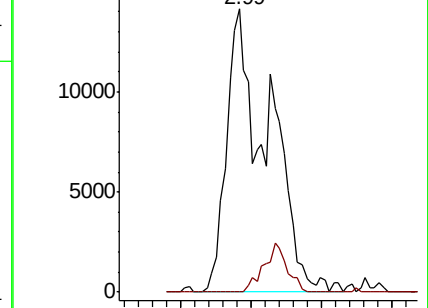
51 100

67 9.7 14.9 22.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.052 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL033350.D

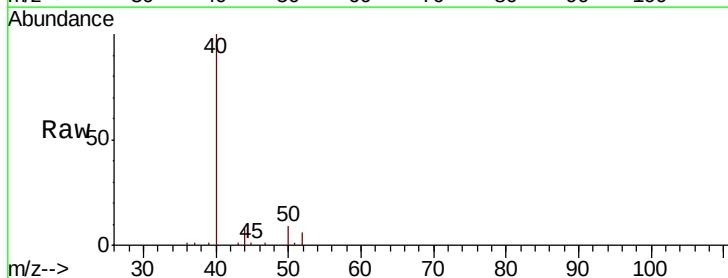
Acq: 16 Mar 2019 3:44

Tgt Ion: 50 Resp: 2448

Ion Ratio Lower Upper

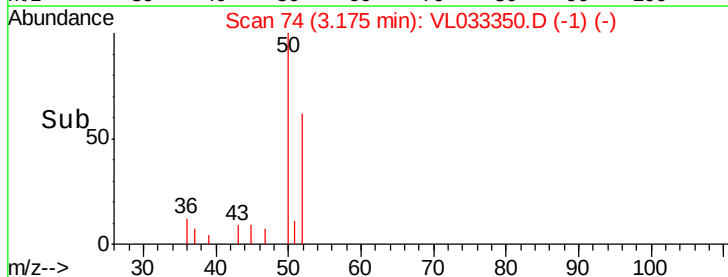
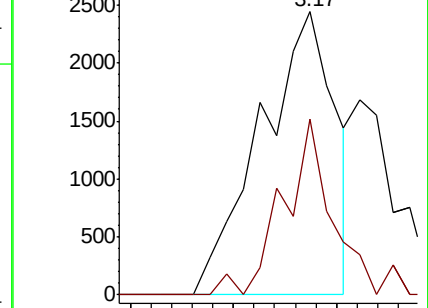
50 100

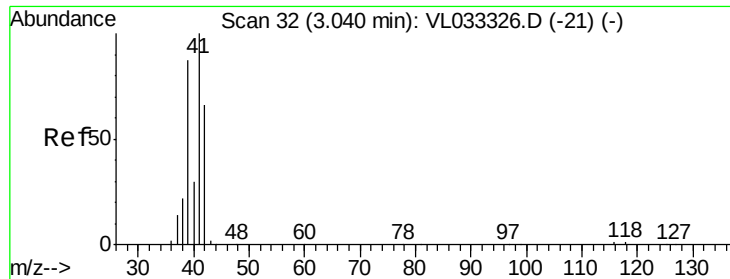
52 62.2 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.919 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033350.D

Acq: 16 Mar 2019 3:44

Instrument :

MSVOA_L

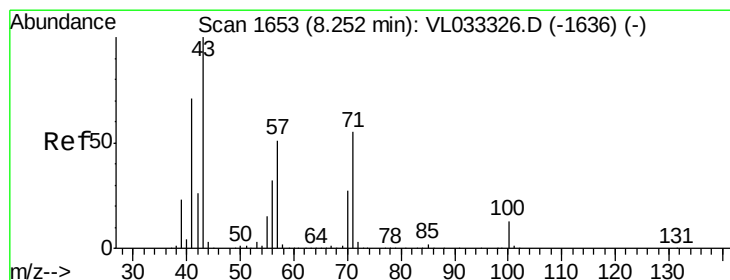
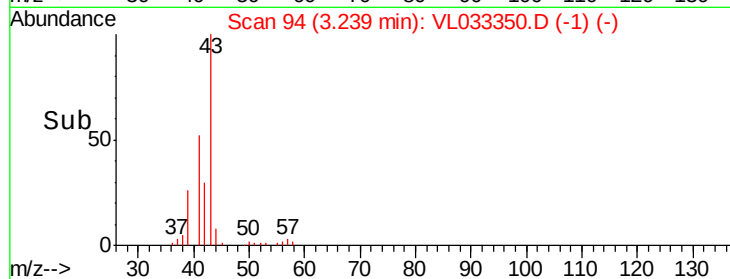
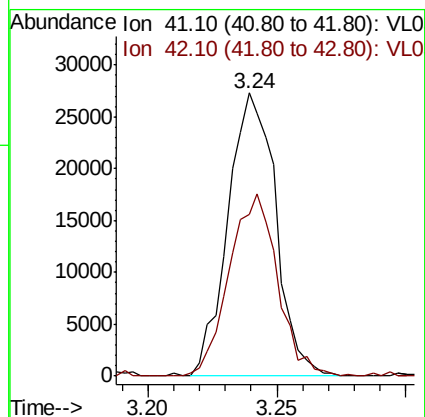
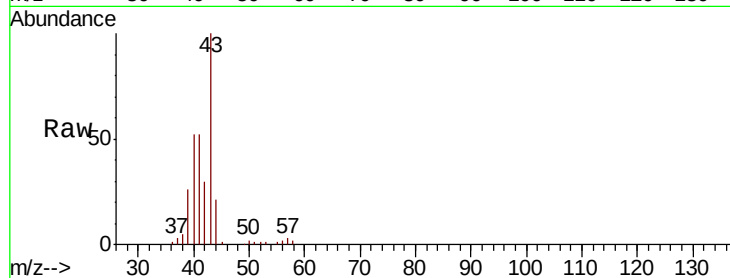
ClientSampleId :

Tot Ion: 41 Resp: 35338

Ion Ratio Lower Upper

41 100

42 65.5 55.2 82.8



#10

Heptane

Concen: 0.052 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL033350.D

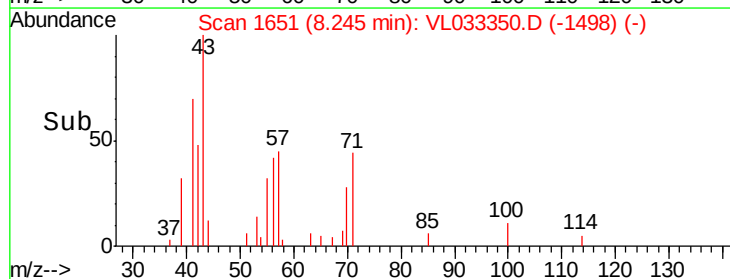
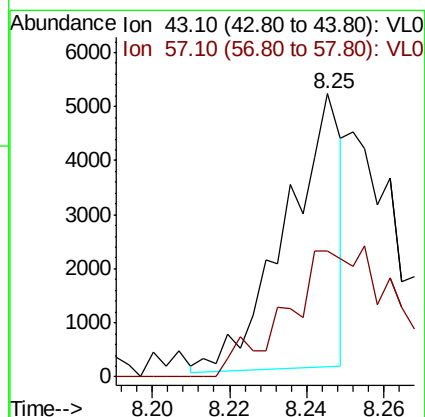
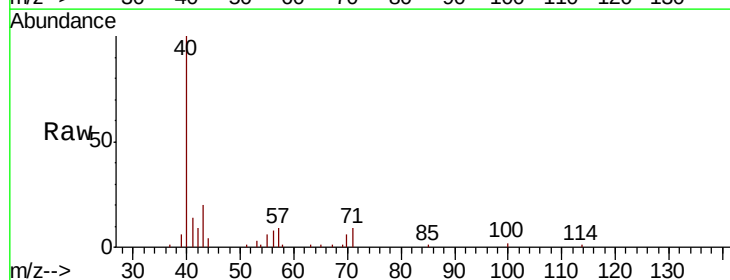
Acq: 16 Mar 2019 3:44

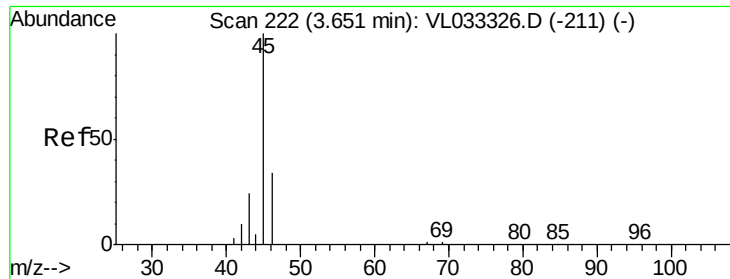
Tgt Ion: 43 Resp: 4991

Ion Ratio Lower Upper

43 100

57 0.0 40.4 60.6#





#13

Ethanol

Concen: 11.157 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033350.D

Acq: 16 Mar 2019 3:44

Instrument :

MSVOA_L

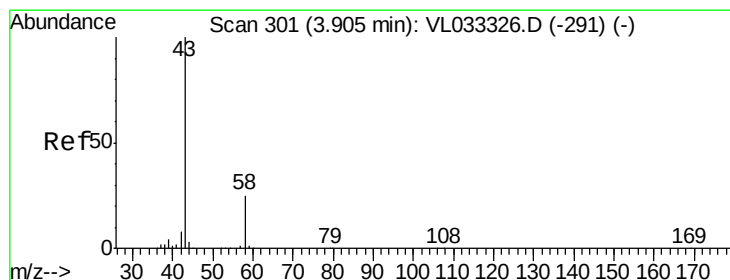
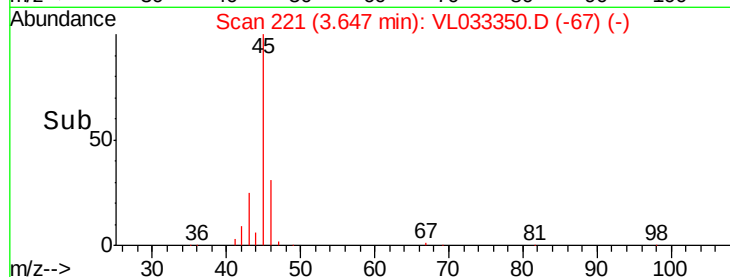
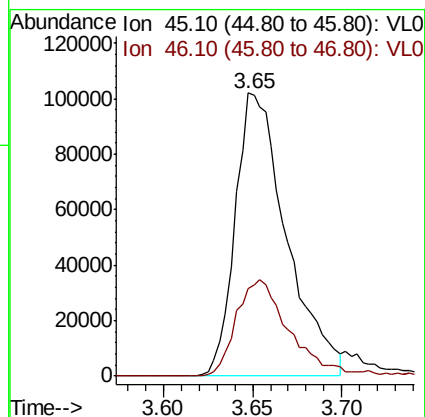
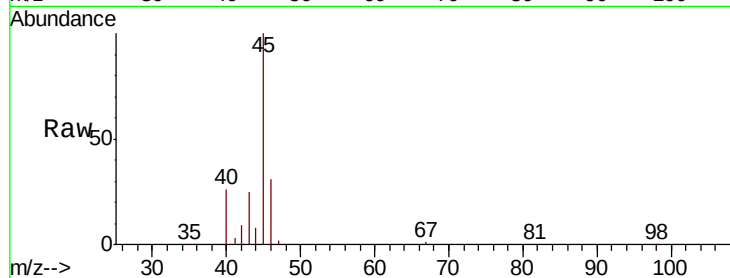
ClientSampleId :

Tot Ion: 45 Resp: 204574

Ion Ratio Lower Upper

45 100

46 36.3 14.9 59.7



#15

Acetone

Concen: 0.804 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033350.D

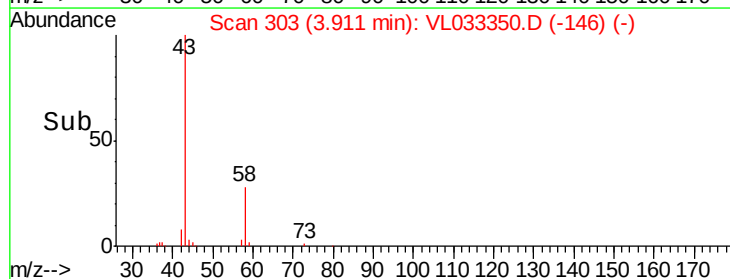
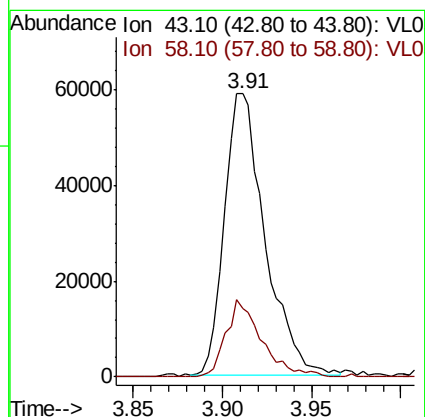
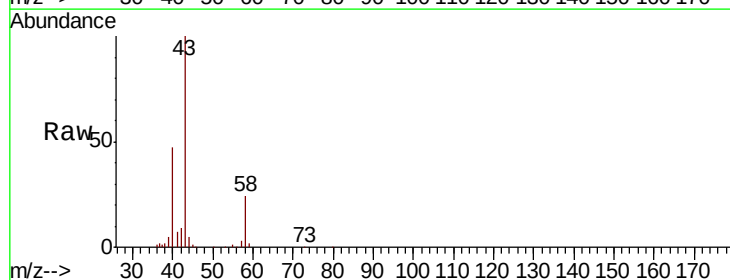
Acq: 16 Mar 2019 3:44

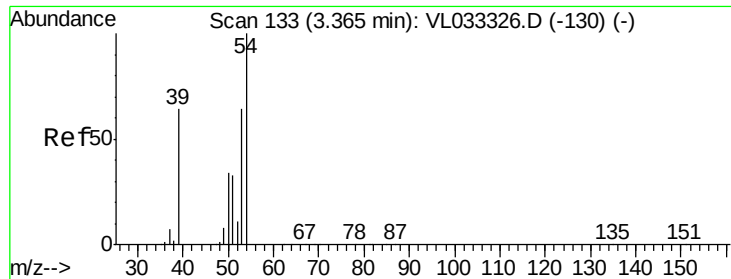
Tgt Ion: 43 Resp: 93818

Ion Ratio Lower Upper

43 100

58 24.6 20.4 30.6

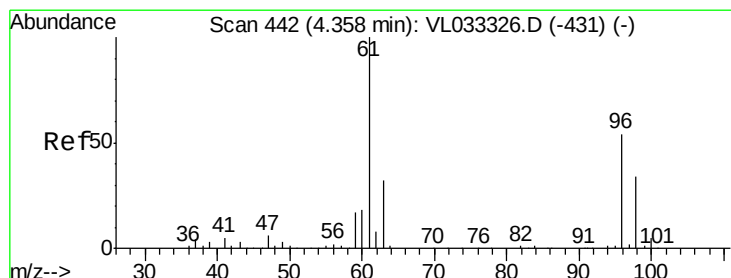
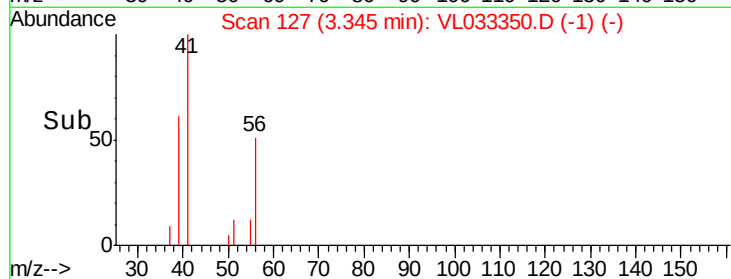
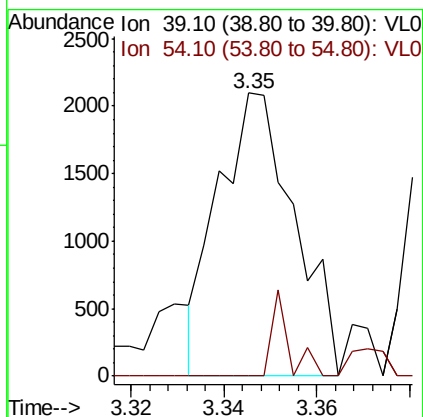
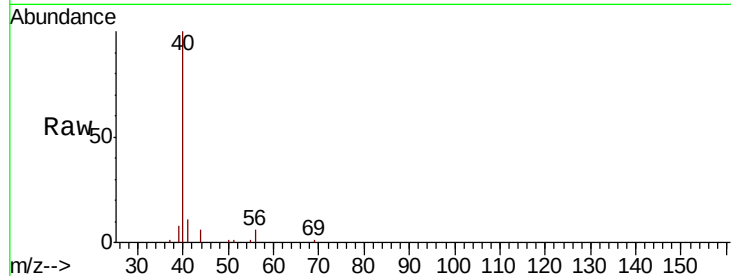




#16
1,3-Butadiene
Concen: 0.063 ppbv
RT: 3.35 min Scan# 127
Delta R.T. -0.02 min
Lab File: VL033350.D
Acq: 16 Mar 2019 3:44

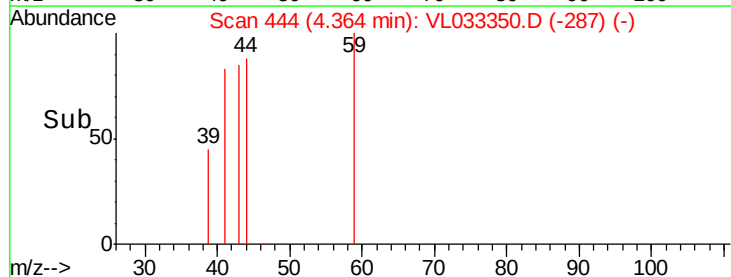
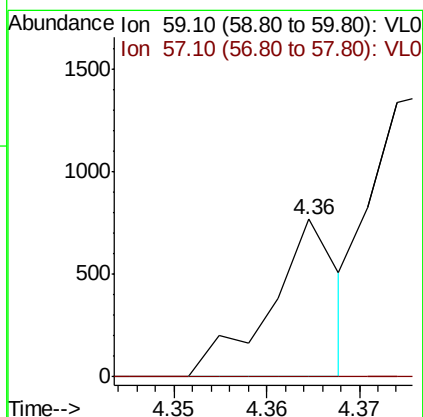
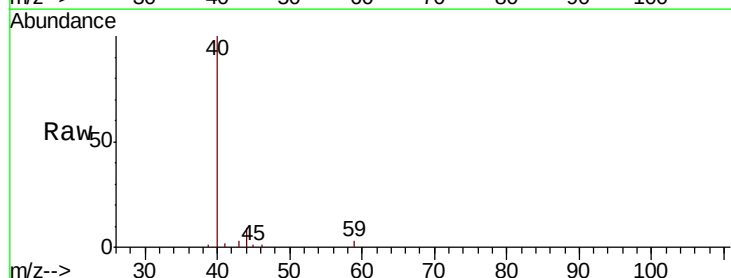
Instrument :
MSVOA_L
ClientSampleId :

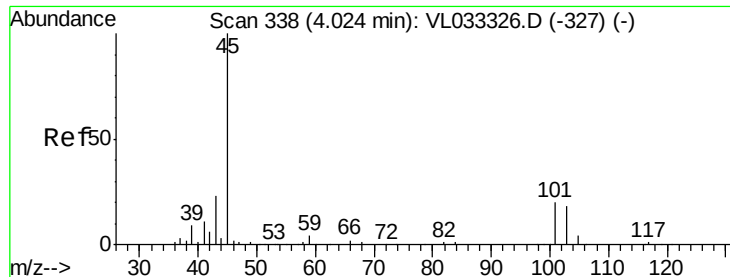
Tot Ion: 39 Resp: 2388
Ion Ratio Lower Upper
39 100
54 0.0 76.8 115.2#



#17
tert-Butyl alcohol
Concen: 0.024 ppbv
RT: 4.36 min Scan# 444
Delta R.T. 0.01 min
Lab File: VL033350.D
Acq: 16 Mar 2019 3:44

Tgt Ion: 59 Resp: 392
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#





#19

Isopropyl Alcohol

Concen: 1.240 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033350.D

Acq: 16 Mar 2019 3:44

Instrument :

MSVOA_L

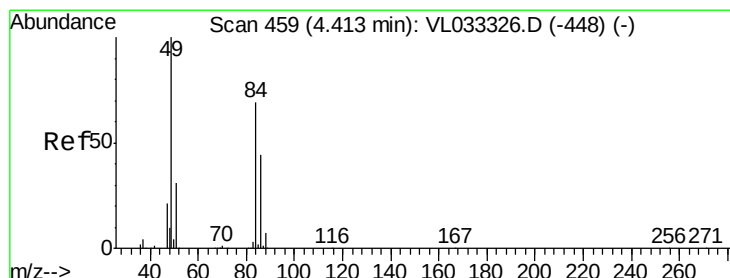
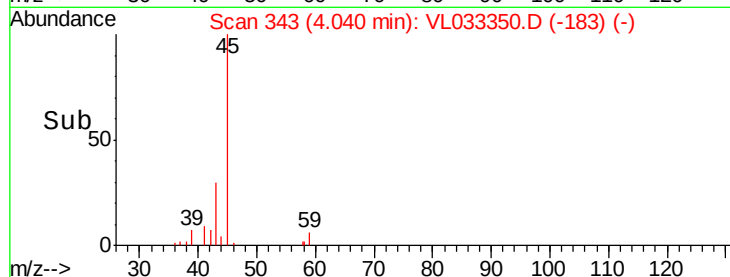
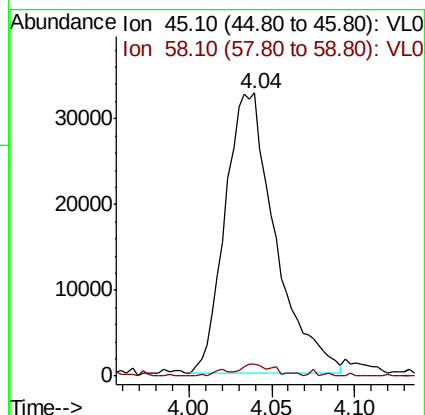
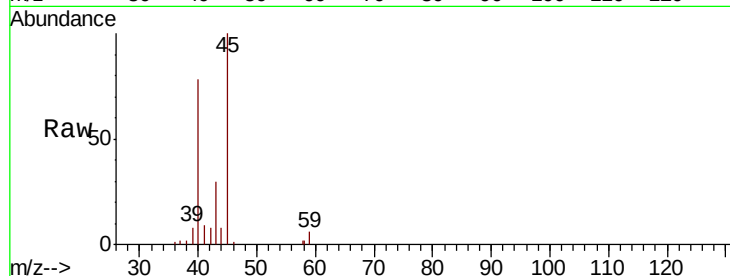
ClientSampleId :

Tot Ion: 45 Resp: 68836

Ion Ratio Lower Upper

45 100

58 4.1 1.5 2.3#



#20

Methylene Chloride

Concen: 0.367 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL033350.D

Acq: 16 Mar 2019 3:44

Tgt Ion: 84 Resp: 13951

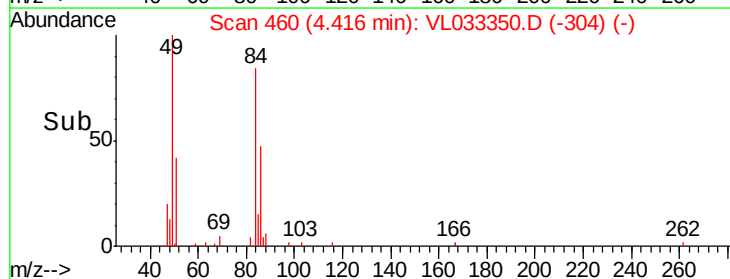
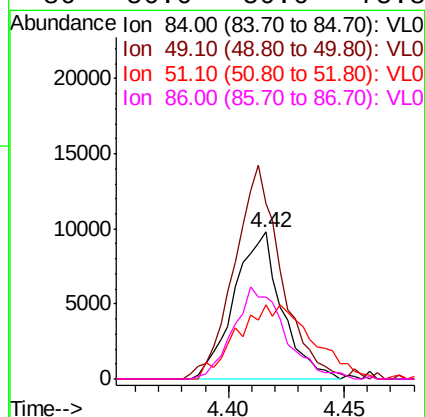
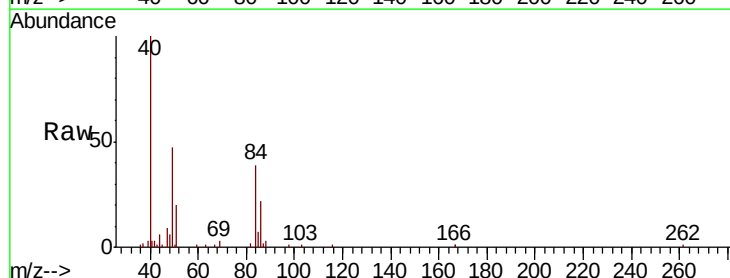
Ion Ratio Lower Upper

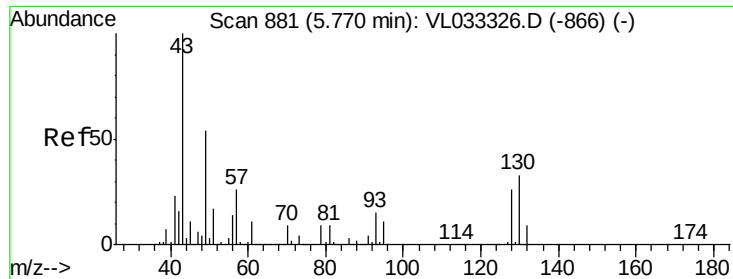
84 100

49 115.9 115.4 173.0

51 50.7 35.8 53.6

86 56.0 50.6 75.8

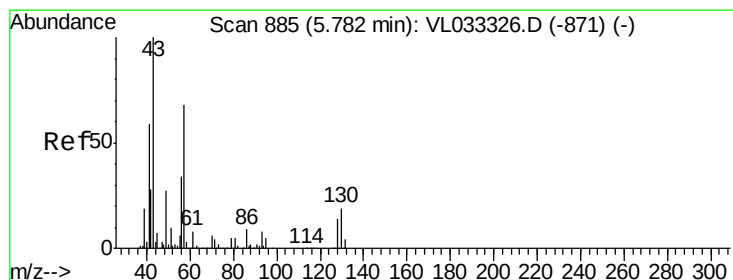
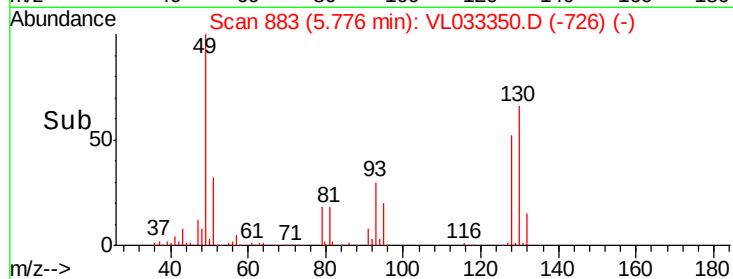
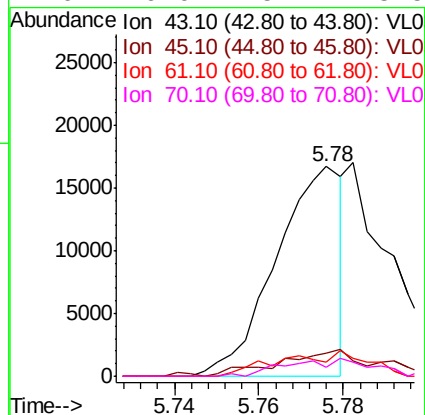
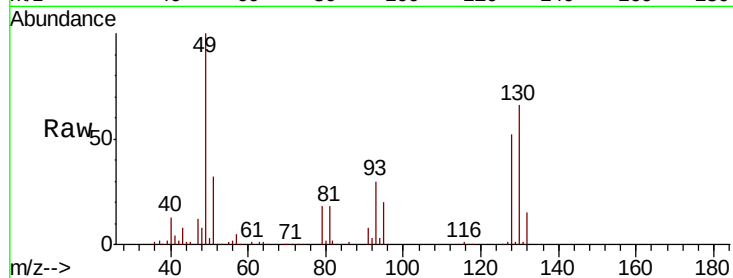




#25
Ethyl Acetate
Concen: 0.108 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033350.D
Acq: 16 Mar 2019 3:44

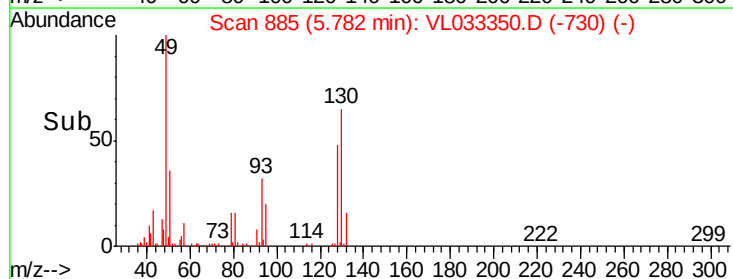
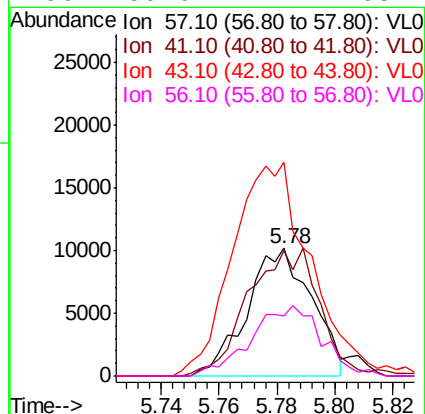
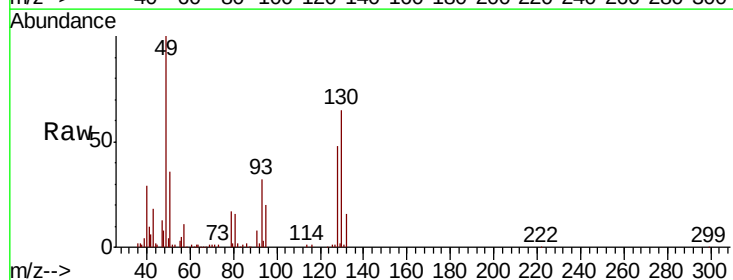
Instrument :
MSVOA_L
ClientSampleId :

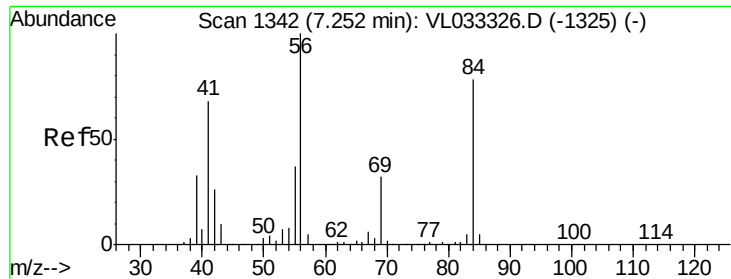
Tot Ion:	43	Resp:	18255
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	0.0	7.4	11.2#
70	0.0	5.7	8.5#



#26
Hexane
Concen: 0.208 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033350.D
Acq: 16 Mar 2019 3:44

Tgt Ion:	57	Resp:	15790
Ion	Ratio	Lower	Upper
57	100		
41	110.2	70.5	105.7#
43	208.4	181.8	272.8
56	59.6	42.2	63.2

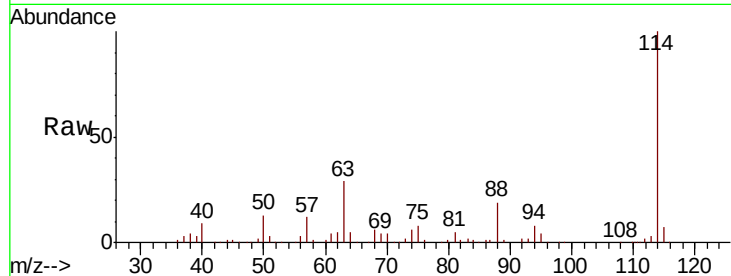




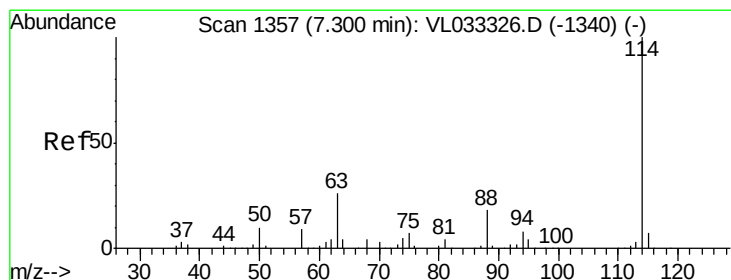
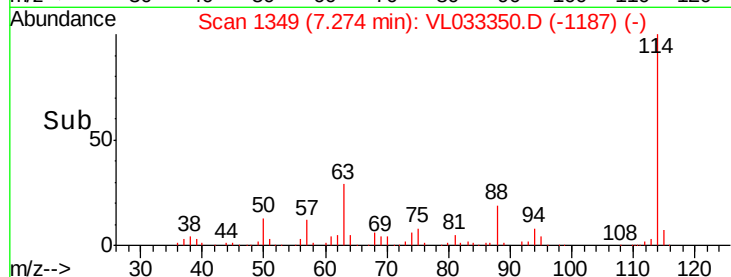
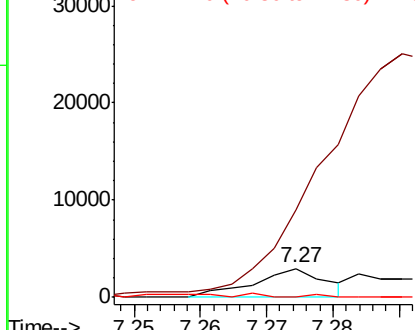
#30
Cyclohexane
Concen: 0.036 ppbv
RT: 7.27 min Scan# 1349
Delta R.T. 0.02 min
Lab File: VL033350.D
Acq: 16 Mar 2019 3:44

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 2213
Ion Ratio Lower Upper
84 100
56 0.0 111.3 166.9#
41 16.6 69.6 104.4#

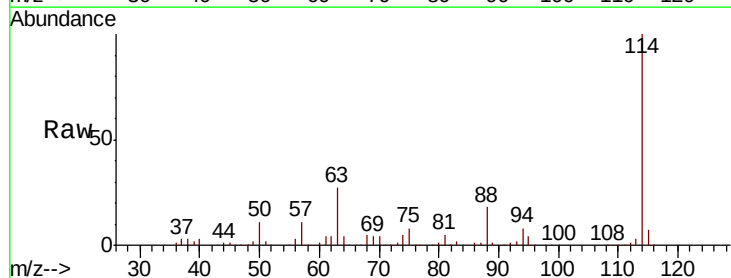


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

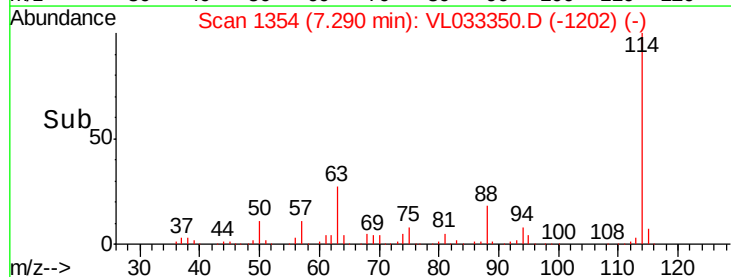
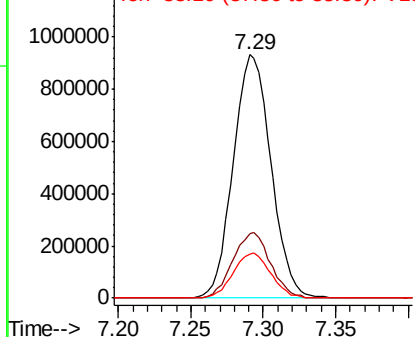


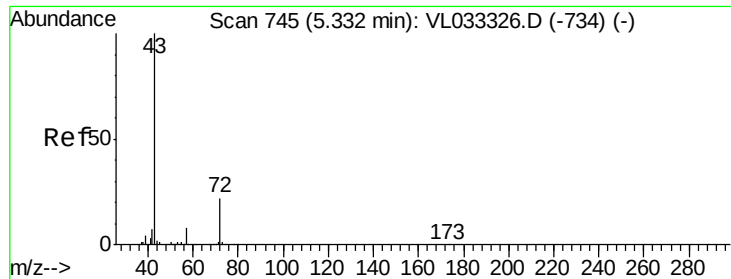
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL033350.D
Acq: 16 Mar 2019 3:44

Tgt Ion: 114 Resp: 1688849
Ion Ratio Lower Upper
114 100
63 26.9 21.4 32.2
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





#34

2-Butanone

Concen: 0.050 ppbv

RT: 5.34 min Scan# 748

Delta R.T. 0.01 min

Lab File: VL033350.D

Acq: 16 Mar 2019 3:44

Instrument :

MSVOA_L

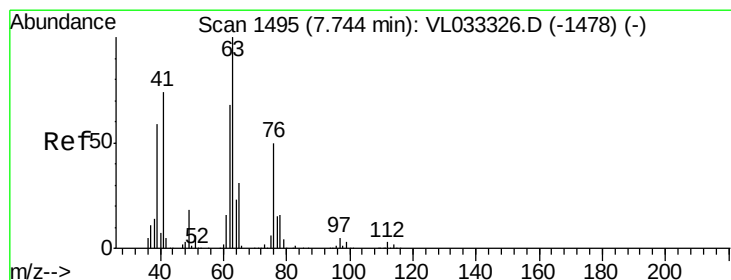
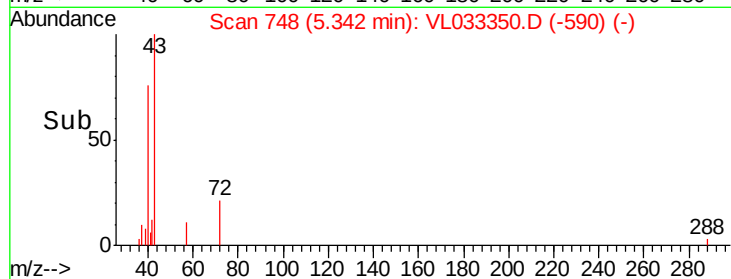
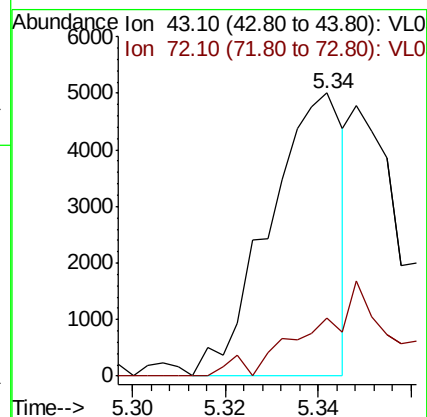
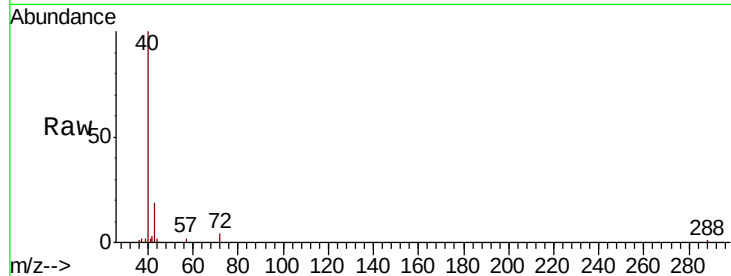
ClientSampled :

Tot Ion: 43 Resp: 5527

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#39

1,2-Dichloropropane

Concen: 8.033 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL033350.D

Acq: 16 Mar 2019 3:44

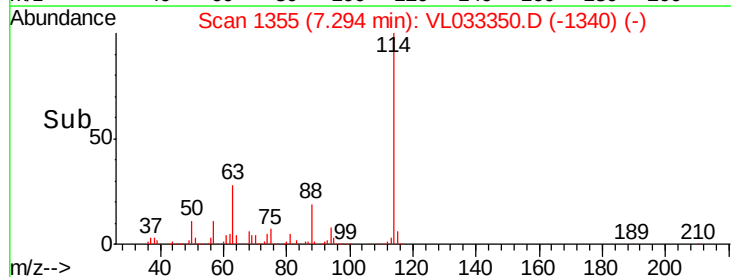
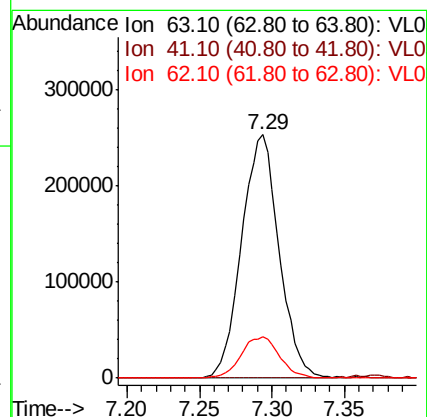
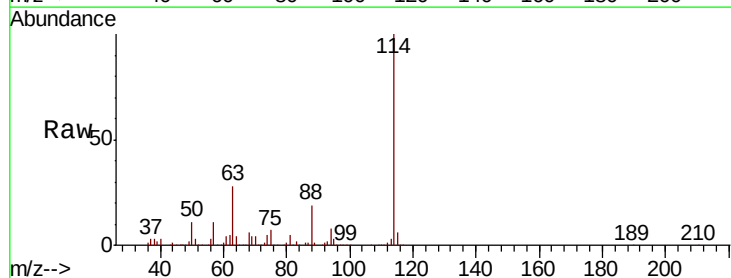
Tgt Ion: 63 Resp: 454677

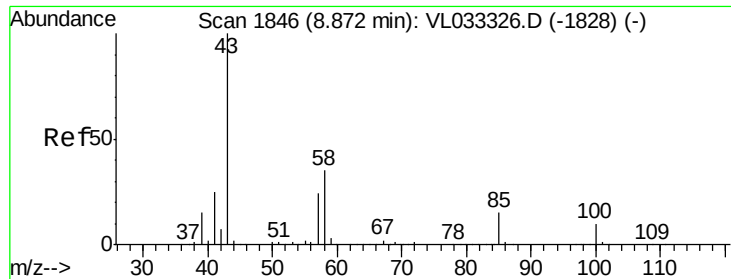
Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 17.3 54.7 82.1#





#50

4-Methyl-2-Pentanone

Concen: 0.040 ppbv

RT: 8.89 min Scan# 1853

Delta R.T. 0.02 min

Lab File: VL033350.D

Acq: 16 Mar 2019 3:44

Instrument :

MSVOA_L

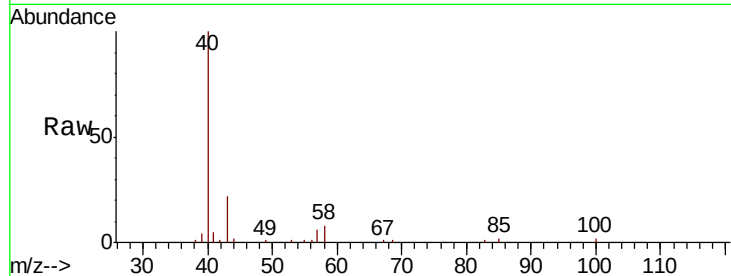
ClientSampleId :

Tot Ion: 43 Resp: 6194

Ion Ratio Lower Upper

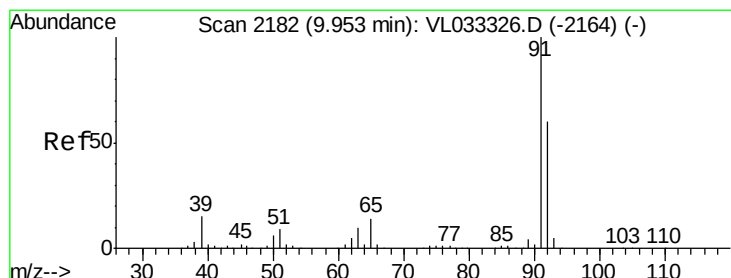
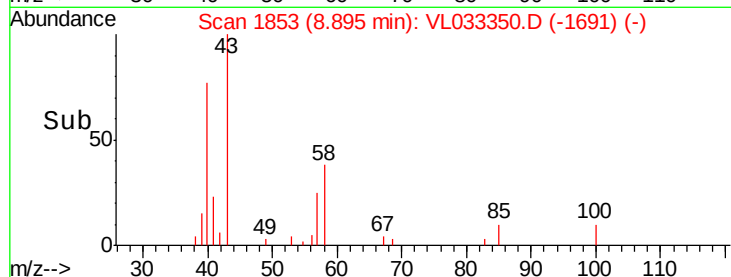
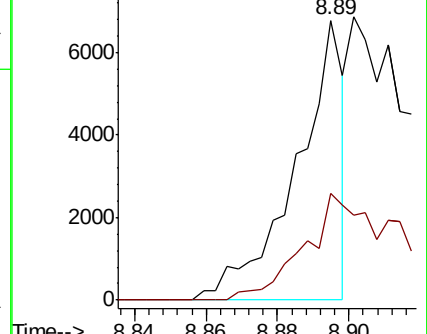
43 100

58 80.7 28.4 42.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#53

Toluene

Concen: 2.234 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033350.D

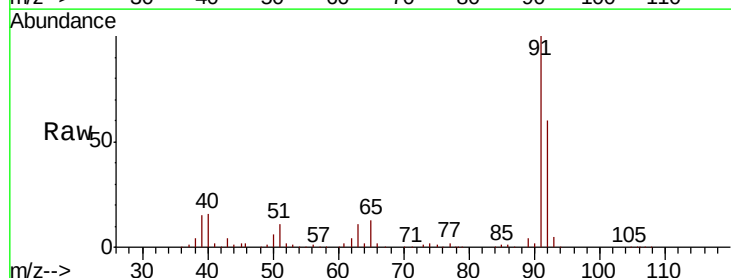
Acq: 16 Mar 2019 3:44

Tgt Ion: 91 Resp: 383737

Ion Ratio Lower Upper

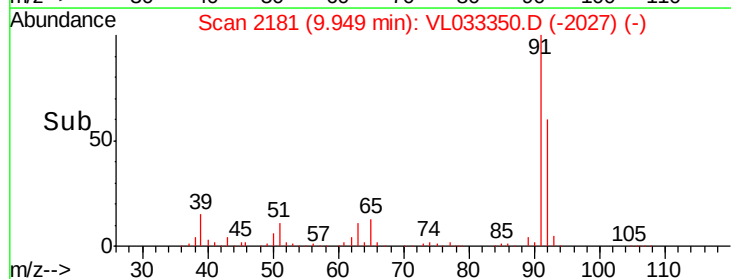
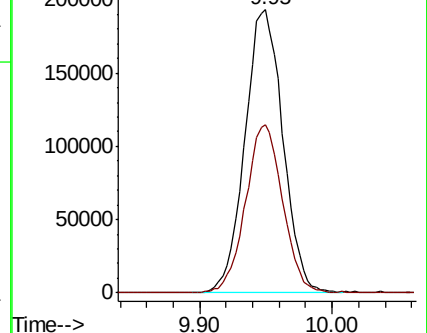
91 100

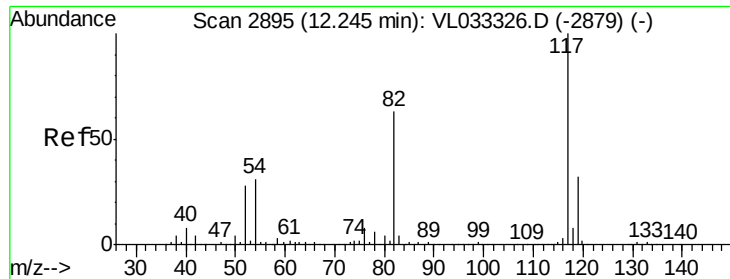
92 58.2 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033350.D

Acq: 16 Mar 2019 3:44

Instrument :

MSVOA_L

ClientSampled :

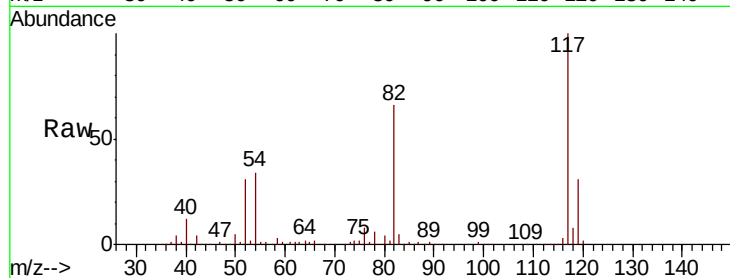
Tot Ion:117 Resp: 1874739

Ion Ratio Lower Upper

117 100

82 69.0 53.4 80.2

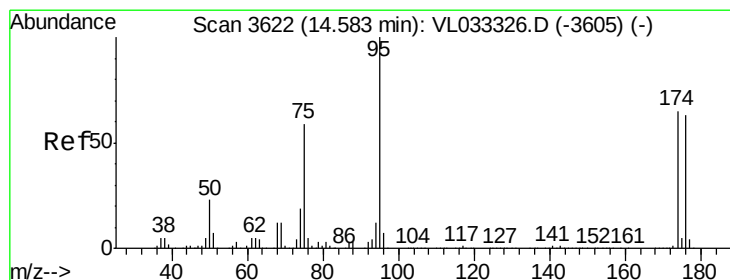
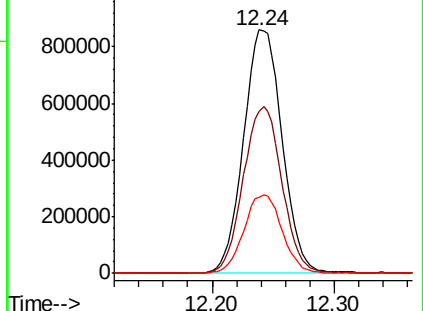
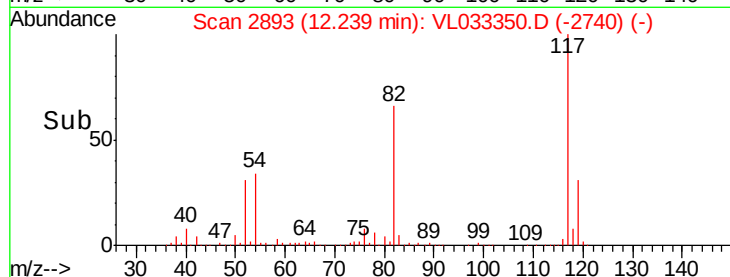
119 32.2 27.3 40.9



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.362 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033350.D

Acq: 16 Mar 2019 3:44

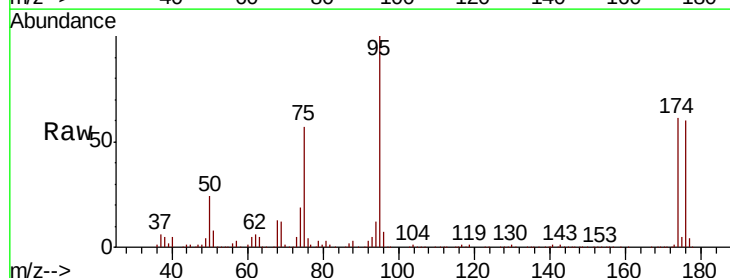
Tgt Ion: 95 Resp: 1439516

Ion Ratio Lower Upper

95 100

174 64.7 51.5 77.3

175 4.6 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

