

Data File : VL033547.D
Acq On : 5 Apr 2019 00:13
Operator : SY/AP
Sample : K2211-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA2DL

Quant Time: Apr 05 02:01:28 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	1199072	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2829730	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2796410	10.00	ppbv	0.00

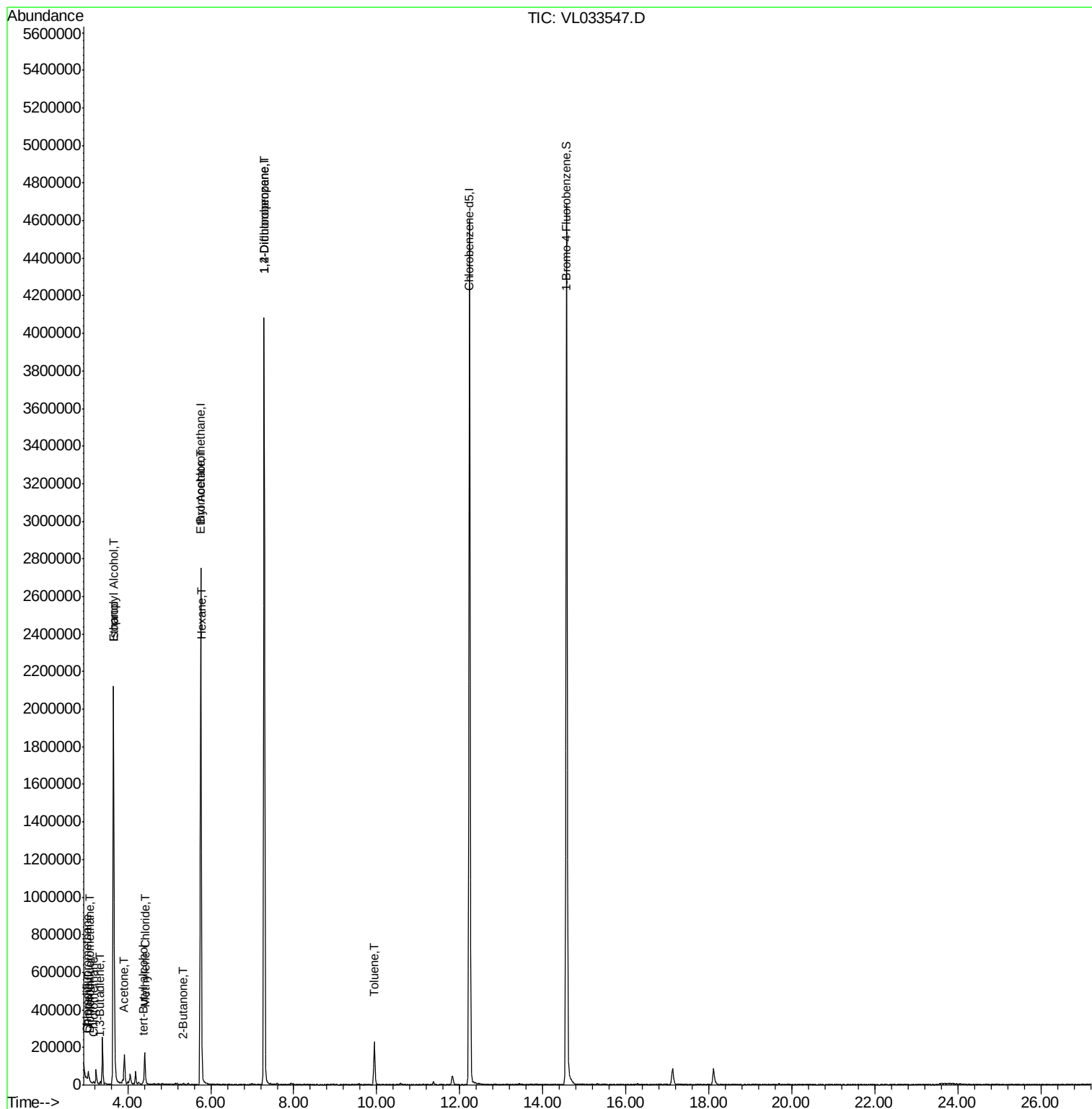
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 2192689 10.00 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.00%

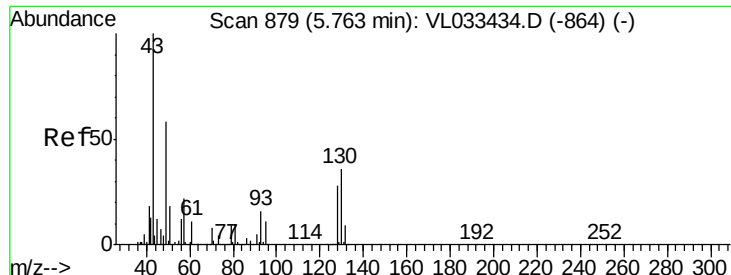
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	10206	0.058	ppbv	94
3) Chlorodifluoromethane	3.02	51	6857	0.050	ppbv #	88
4) Chloromethane	3.17	50	3746	0.051	ppbv #	48
9) Propene	3.06	41	9984	0.172	ppbv	84
13) Ethanol	3.66	45	2373900	158.243	ppbv	65
15) Acetone	3.91	43	119368	0.828	ppbv	91
16) 1,3-Butadiene	3.35	39	3298	0.058	ppbv #	6
17) tert-Butyl alcohol	4.37	59	4752	0.179	ppbv #	73
19) Isopropyl Alcohol	3.66	45	2373900	26.032	ppbv #	95
20) Methylene Chloride	4.41	84	55044	0.899	ppbv	97
25) Ethyl Acetate	5.77	43	52179	0.195	ppbv #	95
26) Hexane	5.78	57	34467	0.290	ppbv #	67
34) 2-Butanone	5.34	43	9336	0.055	ppbv	96
39) 1,2-Dichloropropane	7.29	63	744646	8.006	ppbv #	23
53) Toluene	9.94	91	169800	0.615	ppbv	97

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033547.D

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MSVOA_L

ClientSampleId :

LIHA-IA2DL

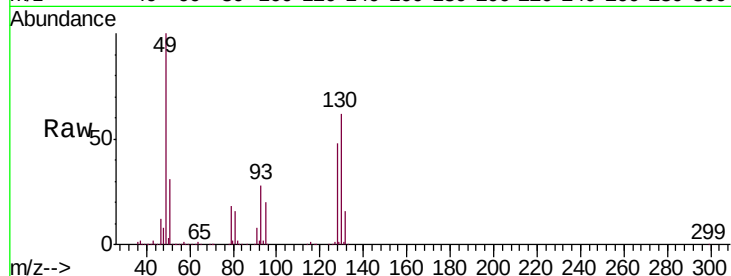
Tgt Ion: 49 Resp: 1199072

Ion Ratio Lower Upper

49 100

128 50.0 24.0 72.0

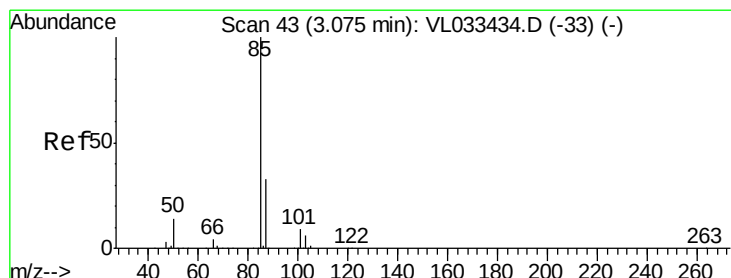
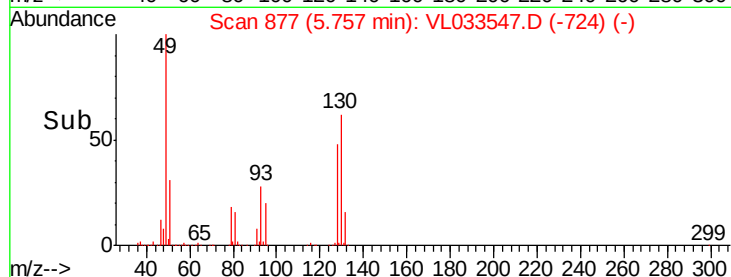
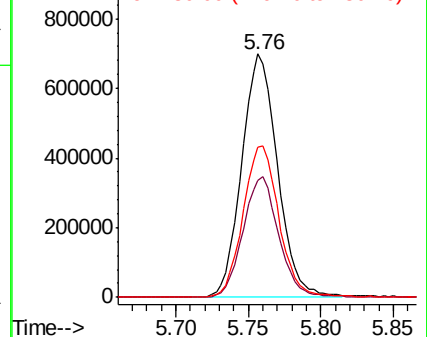
130 63.2 31.2 93.6



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# 44

Delta R.T. 0.00 min

Lab File: VL033547.D

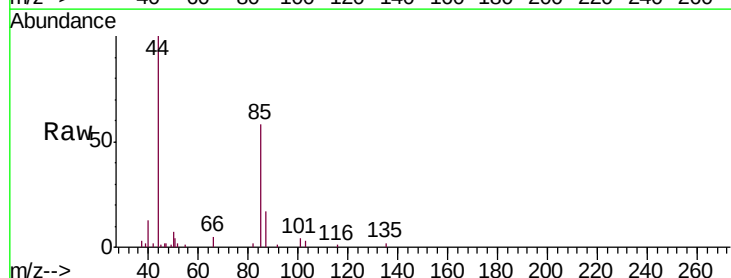
Acq: 5 Apr 2019 00:13

Tgt Ion: 85 Resp: 10206

Ion Ratio Lower Upper

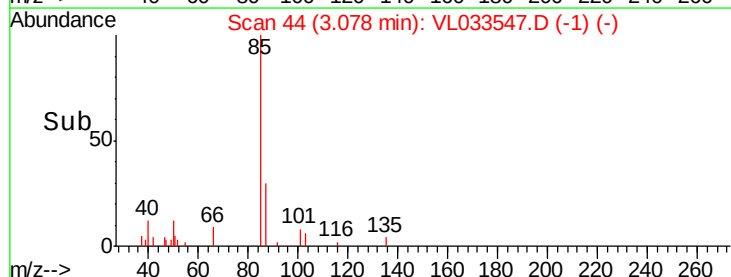
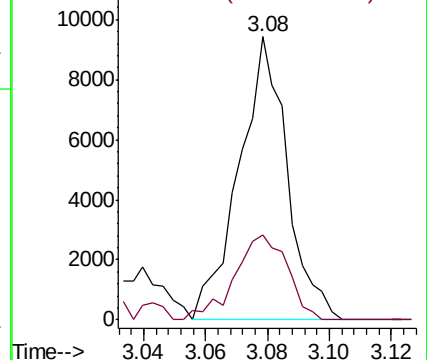
85 100

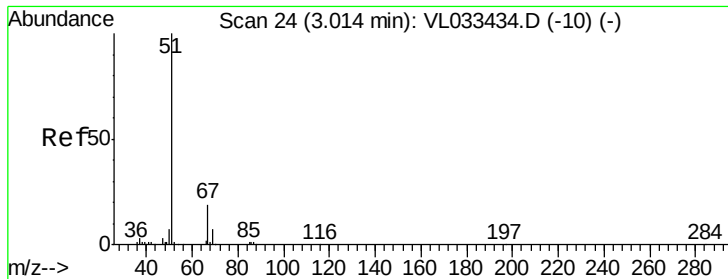
87 30.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

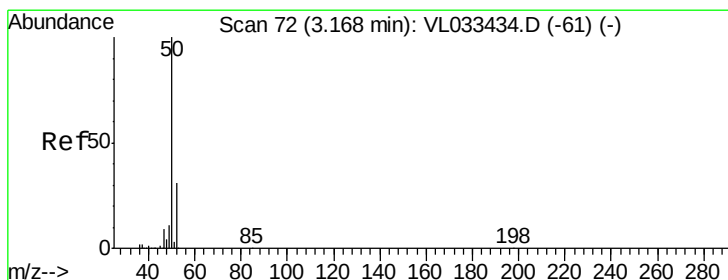
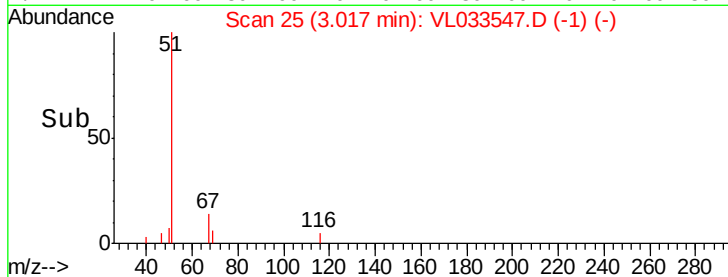
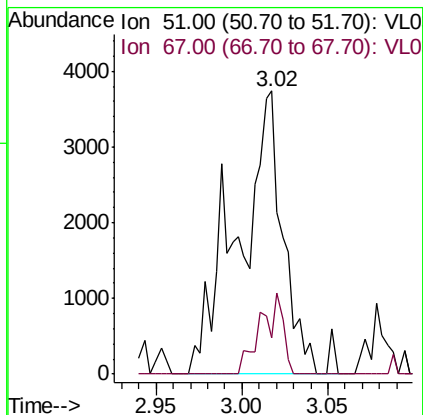
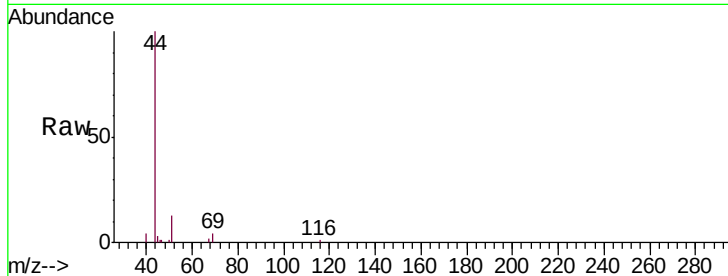




#3
 Chlorodifluoromethane
 Concen: 0.050 ppbv
 RT: 3.02 min Scan# 25
 Delta R.T. 0.00 min
 Lab File: VL033547.D
 Acq: 5 Apr 2019 00:13

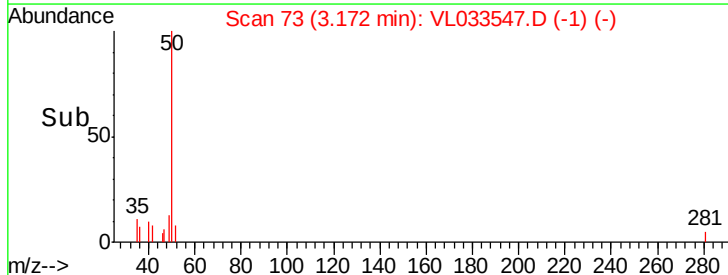
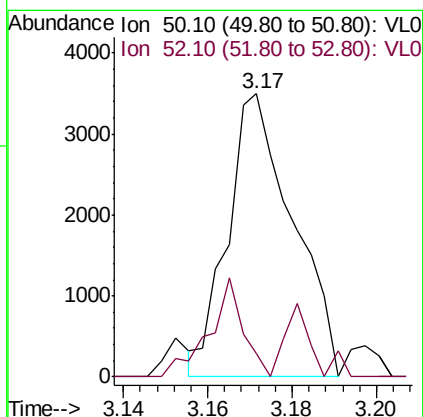
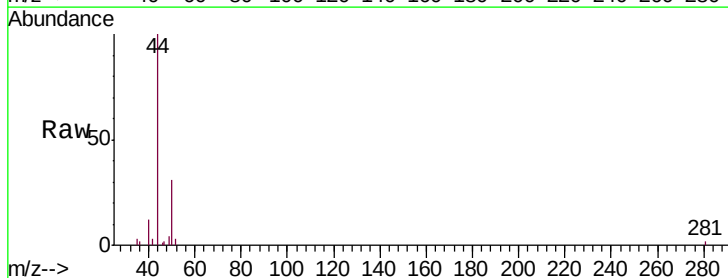
Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA2DL

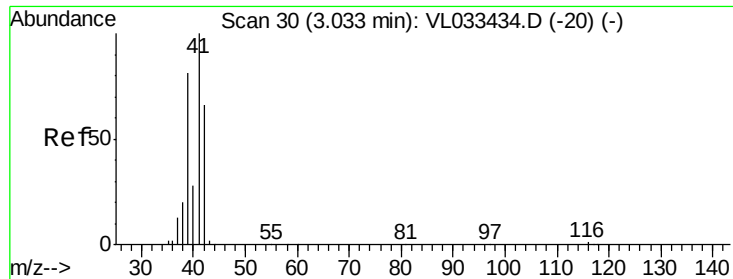
Tgt Ion: 51 Resp: 6857
 Ion Ratio Lower Upper
 51 100
 67 13.9 15.7 23.5#



#4
 Chloromethane
 Concen: 0.051 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. 0.00 min
 Lab File: VL033547.D
 Acq: 5 Apr 2019 00:13

Tgt Ion: 50 Resp: 3746
 Ion Ratio Lower Upper
 50 100
 52 2.7 25.0 37.6#





#9

Propene

Concen: 0.172 ppbv

RT: 3.06 min Scan# 37

Delta R.T. 0.02 min

Lab File: VL033547.D

Acq: 5 Apr 2019 00:13

Instrument :

MSVOA_L

ClientSampleId :

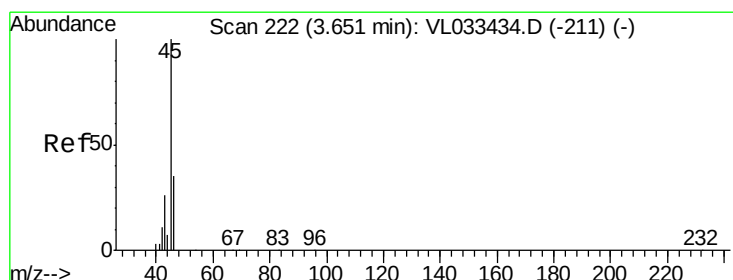
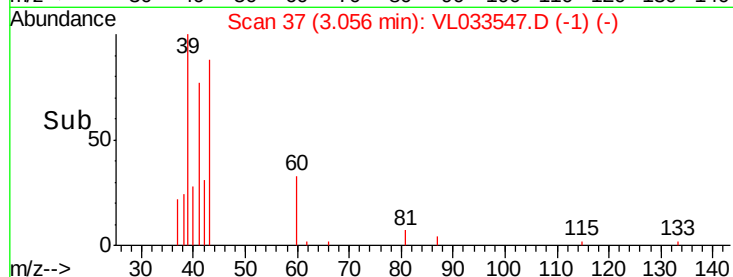
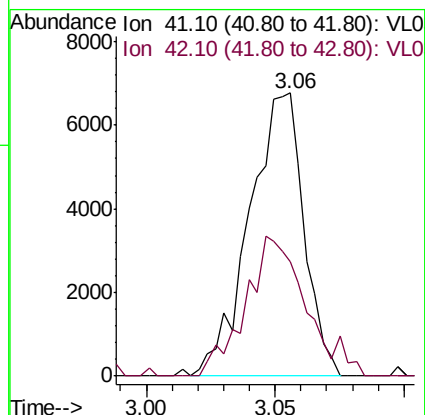
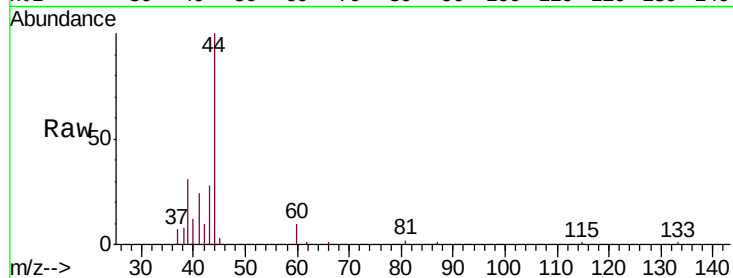
LIHA-IA2DL

Tgt Ion: 41 Resp: 9984

Ion Ratio Lower Upper

41 100

42 54.6 53.9 80.9



#13

Ethanol

Concen: 158.243 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033547.D

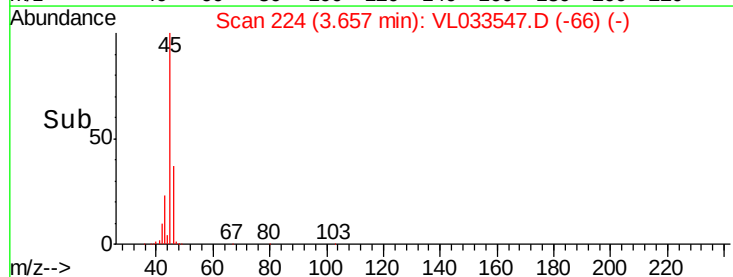
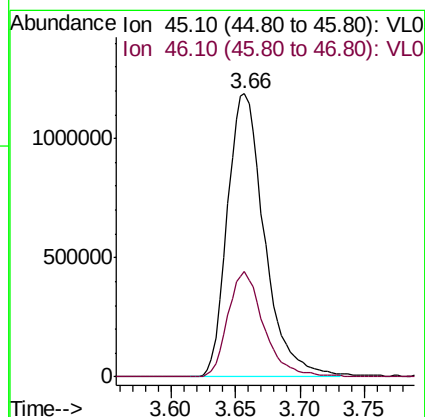
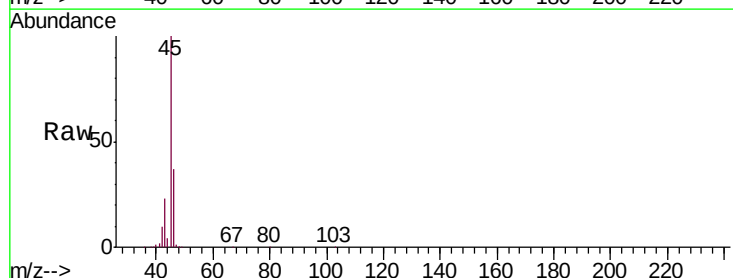
Acq: 5 Apr 2019 00:13

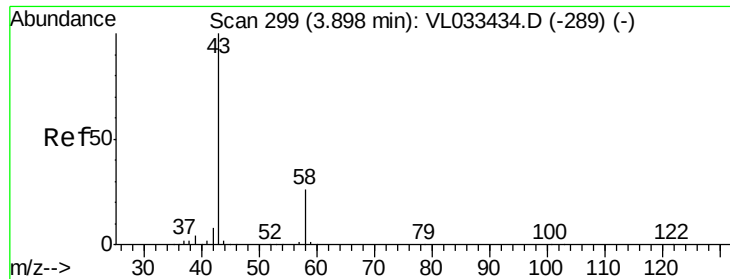
Tgt Ion: 45 Resp: 2373900

Ion Ratio Lower Upper

45 100

46 36.3 25.4 101.8





#15

Acetone

Concen: 0.828 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033547.D

Acq: 5 Apr 2019 00:13

Instrument :

MSVOA_L

ClientSampleId :

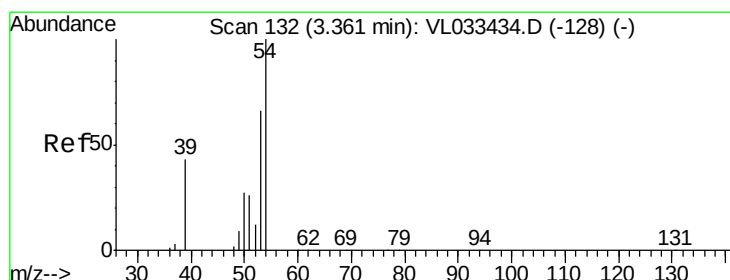
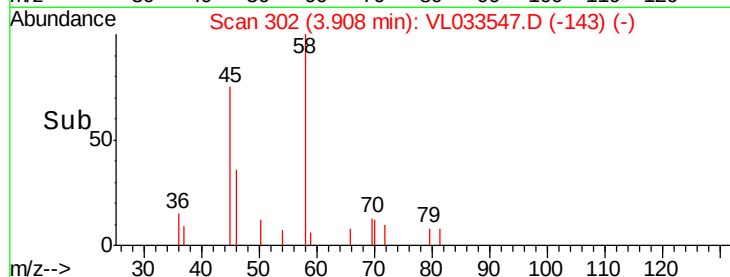
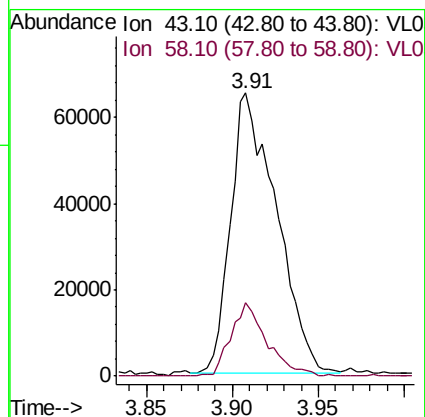
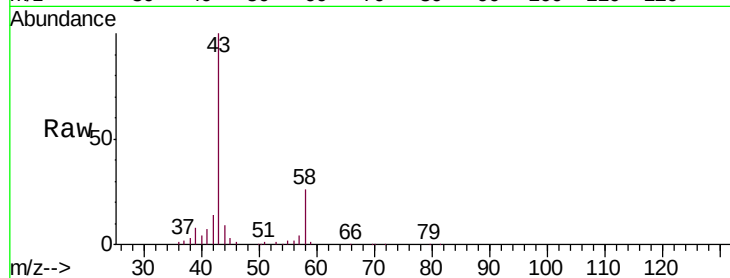
LIHA-IA2DL

Tgt Ion: 43 Resp: 119368

Ion Ratio Lower Upper

43 100

58 21.0 20.5 30.7



#16

1,3-Butadiene

Concen: 0.058 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL033547.D

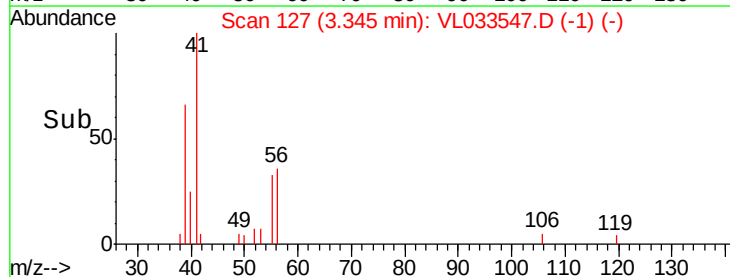
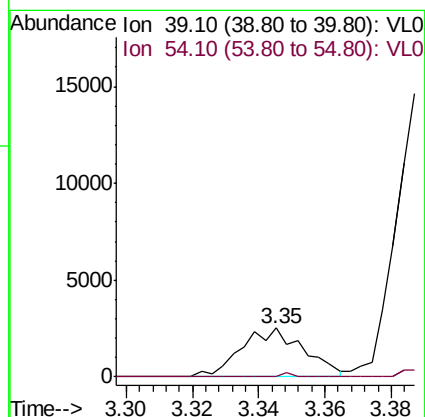
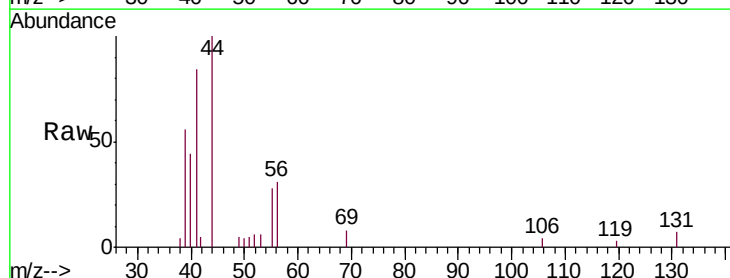
Acq: 5 Apr 2019 00:13

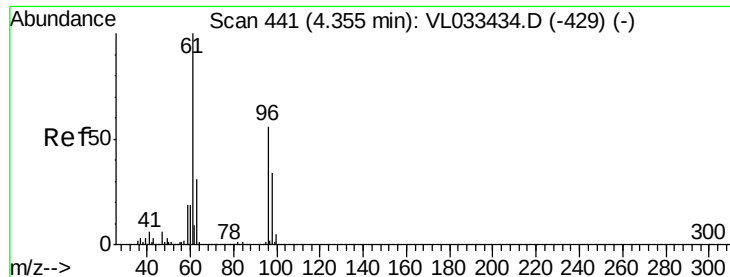
Tgt Ion: 39 Resp: 3298

Ion Ratio Lower Upper

39 100

54 0.0 69.4 104.2#





#17

tert-Butyl alcohol

Concen: 0.179 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.02 min

Lab File: VL033547.D

Acq: 5 Apr 2019 00:13

Instrument :

MSVOA_L

ClientSampleId :

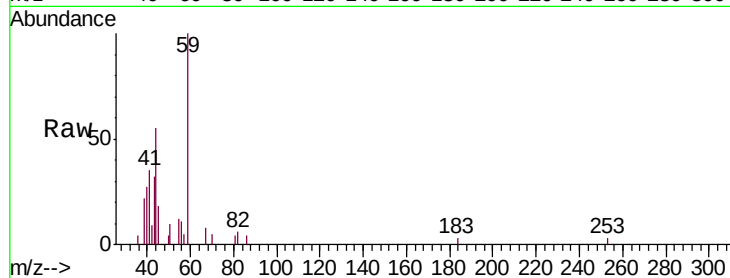
LIHA-IA2DL

Tgt Ion: 59 Resp: 4752

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



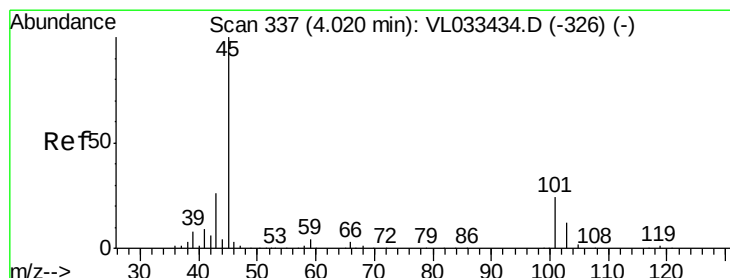
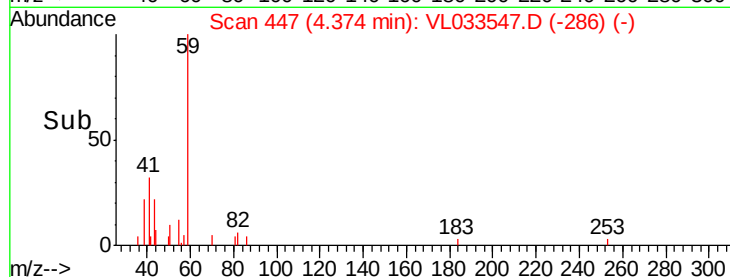
Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.37

4.34 4.36 4.38

Time-->



#19

Isopropyl Alcohol

Concen: 26.032 ppbv

RT: 3.66 min Scan# 224

Delta R.T. -0.36 min

Lab File: VL033547.D

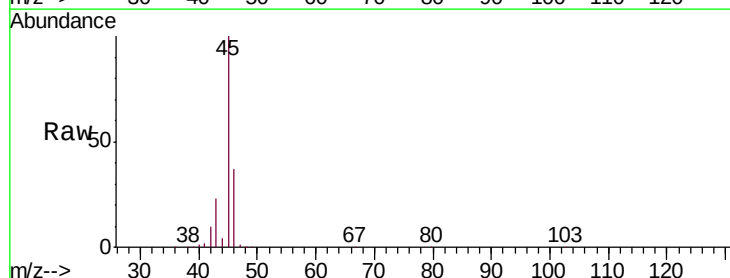
Acq: 5 Apr 2019 00:13

Tgt Ion: 45 Resp: 2373900

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



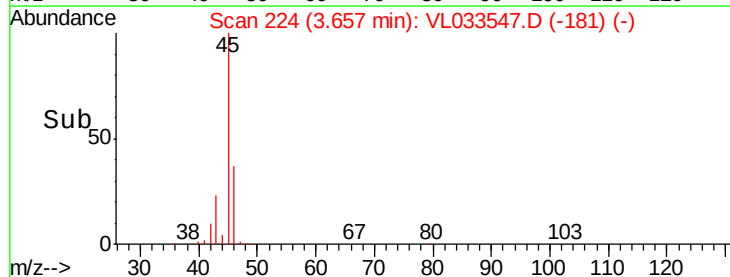
Abundance Ion 45.10 (44.80 to 45.80): VL0

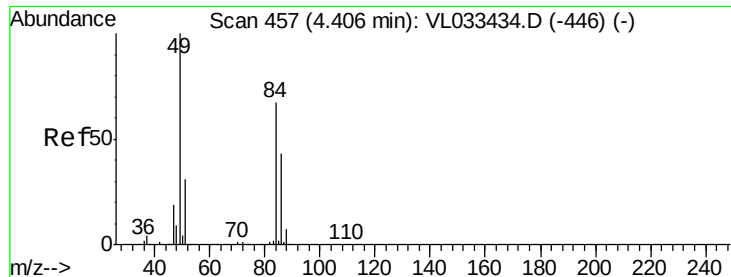
Ion 58.10 (57.80 to 58.80): VL0

3.66

3.60 3.65 3.70 3.75

Time-->

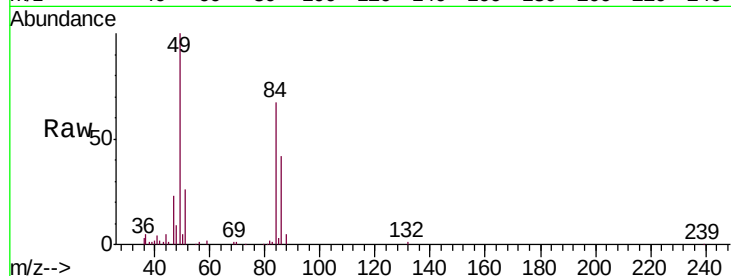




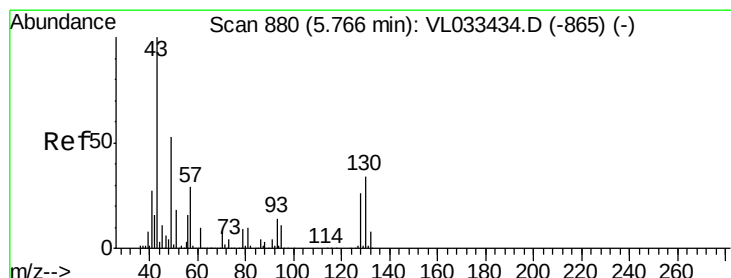
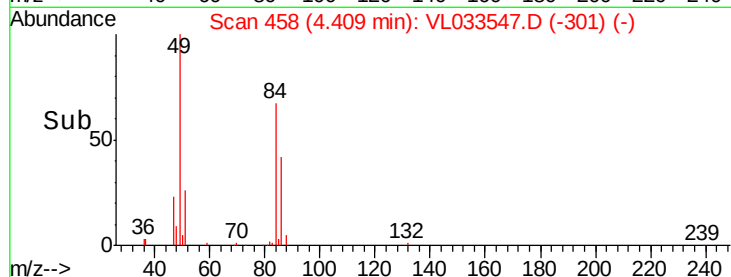
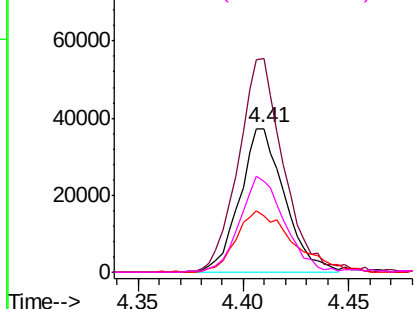
#20
Methylene Chloride
Concen: 0.899 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033547.D
Acq: 5 Apr 2019 00:13

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA2DL

Tgt Ion: 84 Resp: 55044
Ion Ratio Lower Upper
84 100
49 148.2 120.0 180.0
51 38.9 36.7 55.1
86 62.6 51.9 77.9

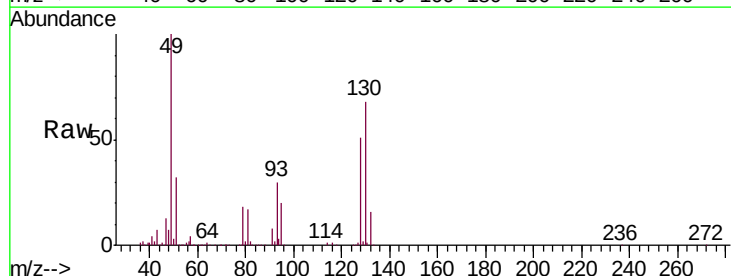


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

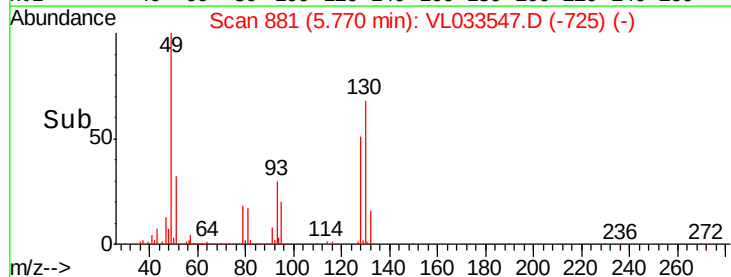
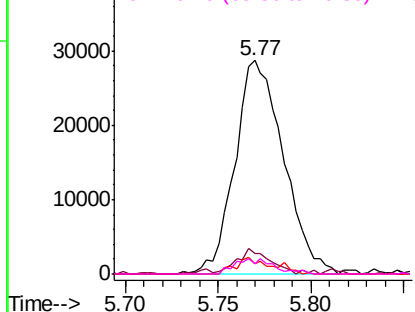


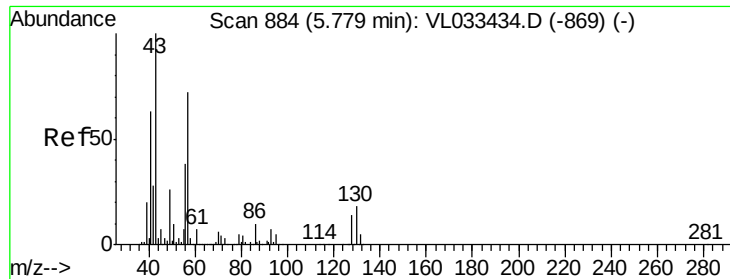
#25
Ethyl Acetate
Concen: 0.195 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033547.D
Acq: 5 Apr 2019 00:13

Tgt Ion: 43 Resp: 52179
Ion Ratio Lower Upper
43 100
45 10.2 7.8 11.6
61 5.8 7.3 10.9#
70 5.9 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: 0.290 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033547.D

Acq: 5 Apr 2019 00:13

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA2DL

Tgt Ion: 57 Resp: 34467

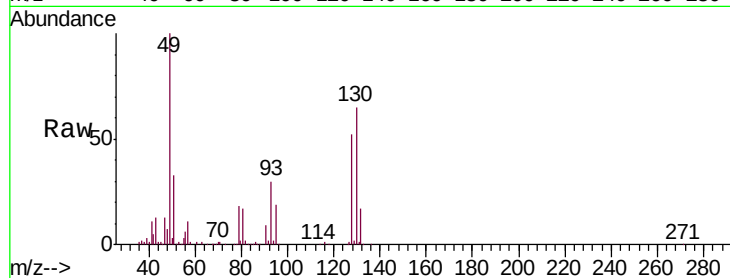
Ion Ratio Lower Upper

57 100

41 104.1 70.7 106.1

43 152.5 182.6 274.0#

56 57.5 42.0 63.0

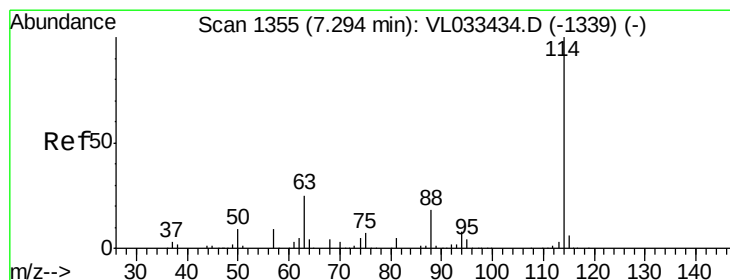
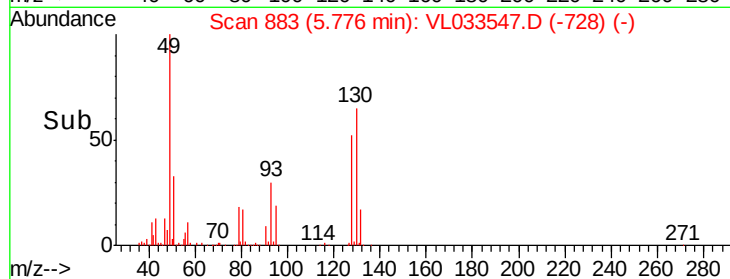
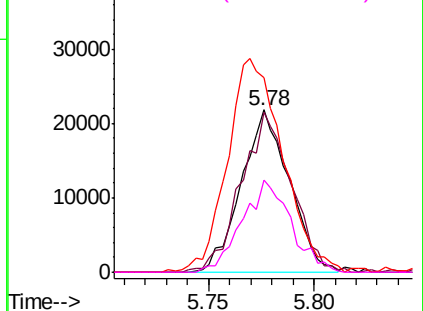


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: VL033547.D

Acq: 5 Apr 2019 00:13

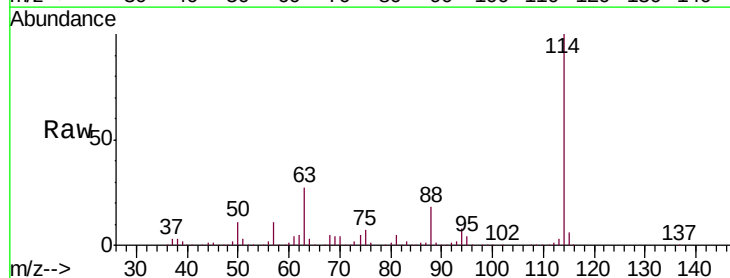
Tgt Ion: 114 Resp: 2829730

Ion Ratio Lower Upper

114 100

63 26.5 21.5 32.3

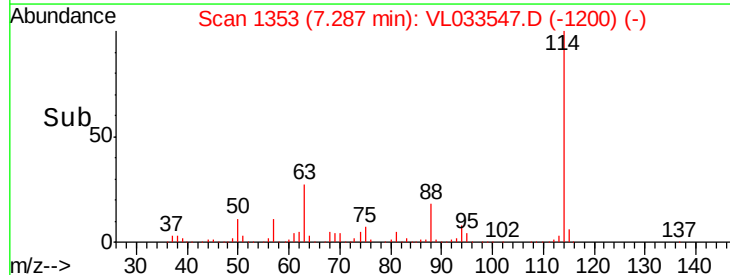
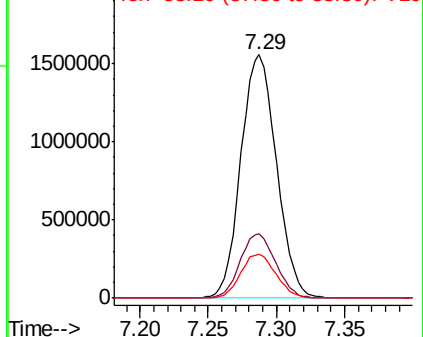
88 18.0 14.5 21.7

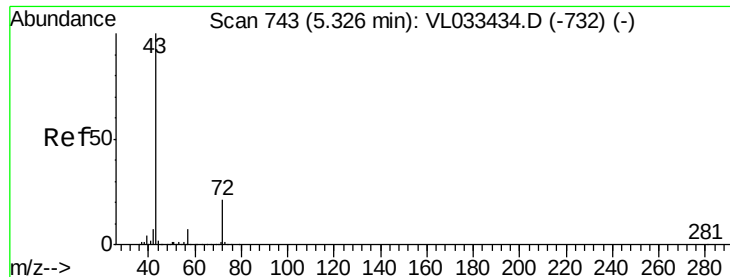


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

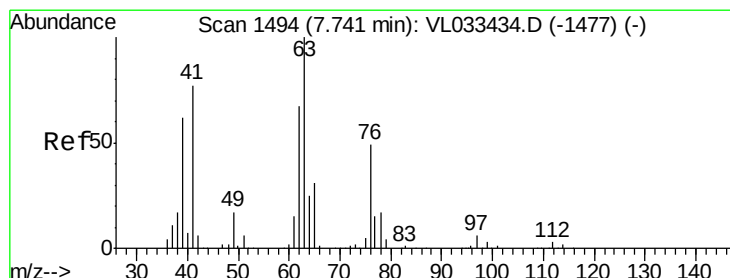
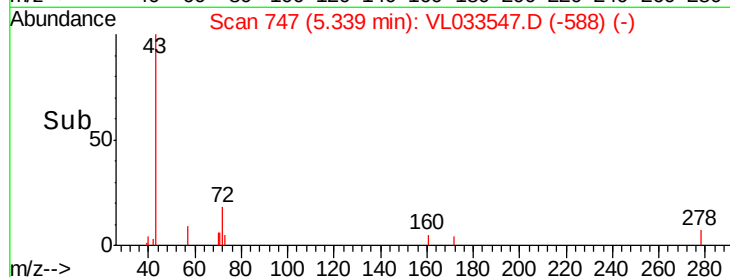
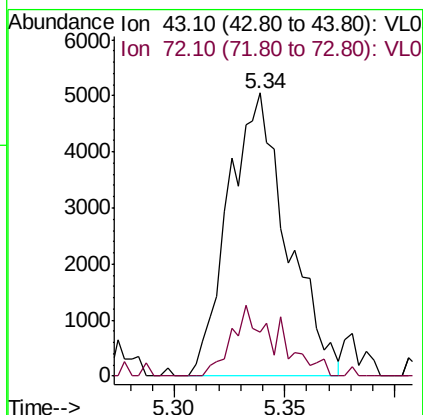
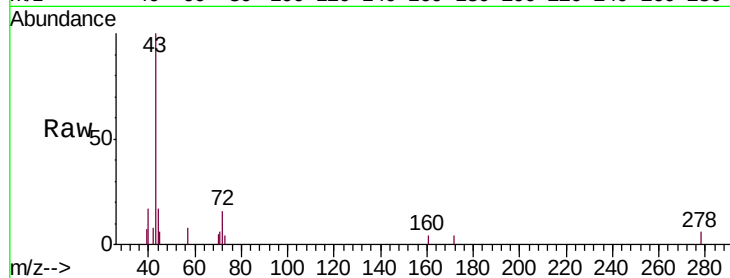




#34
2-Butanone
Concen: 0.055 ppbv
RT: 5.34 min Scan# 747
Delta R.T. 0.01 min
Lab File: VL033547.D
Acq: 5 Apr 2019 00:13

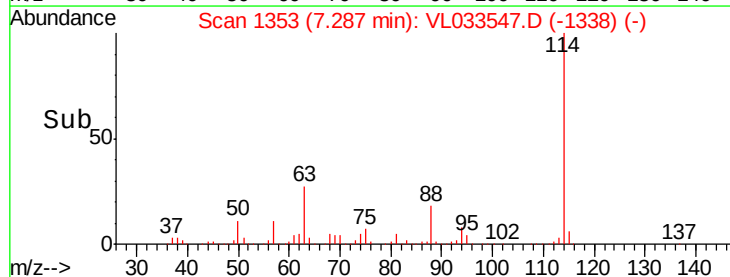
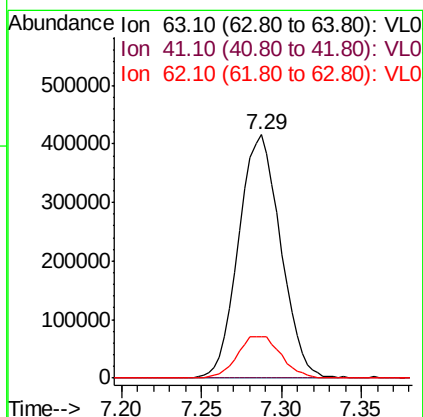
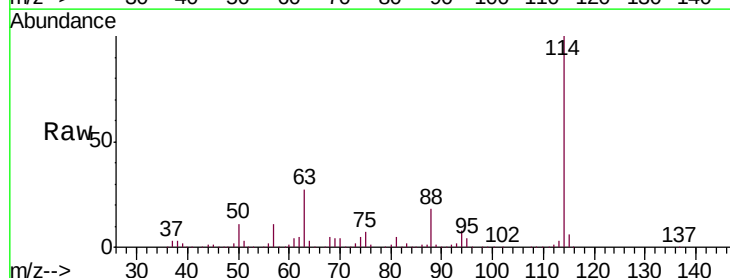
Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA2DL

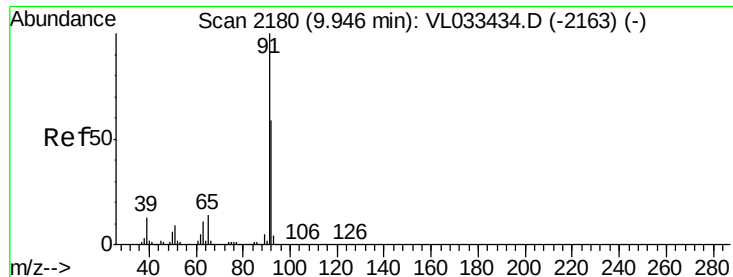
Tgt Ion: 43 Resp: 9336
Ion Ratio Lower Upper
43 100
72 20.0 17.4 26.2



#39
1,2-Dichloropropane
Concen: 8.006 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.45 min
Lab File: VL033547.D
Acq: 5 Apr 2019 00:13

Tgt Ion: 63 Resp: 744646
Ion Ratio Lower Upper
63 100
41 0.0 61.2 91.8#
62 16.9 54.0 81.0#





#53

Toluene

Concen: 0.615 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033547.D

Acq: 5 Apr 2019 00:13

Instrument :

MSVOA_L

ClientSampleId :

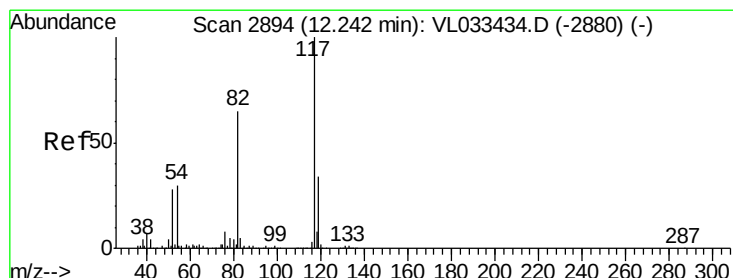
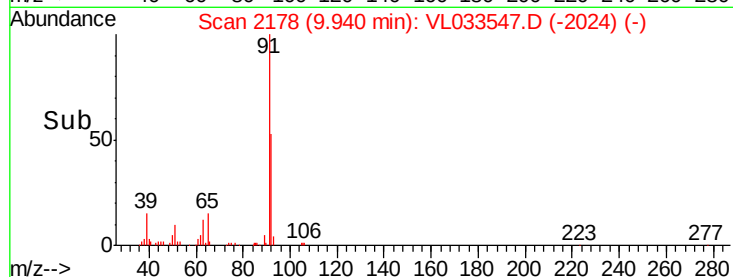
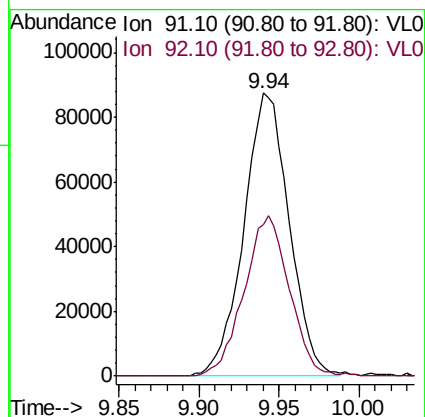
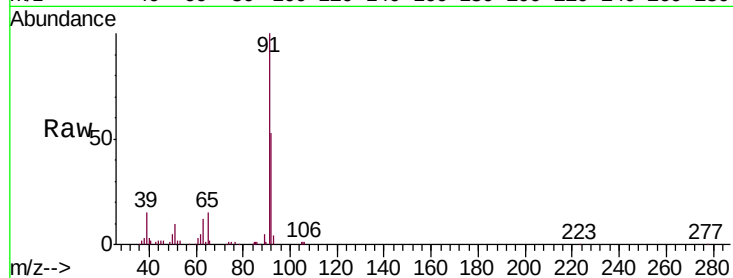
LIHA-IA2DL

Tgt Ion: 91 Resp: 169800

Ion Ratio Lower Upper

91 100

92 56.6 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033547.D

Acq: 5 Apr 2019 00:13

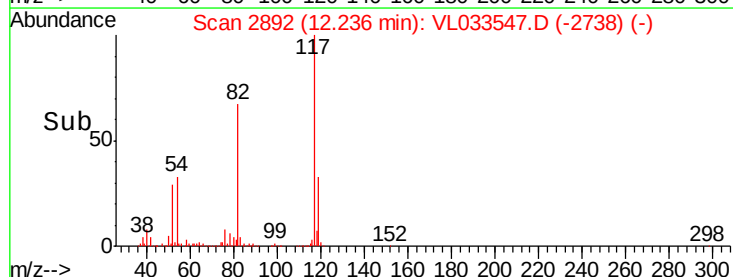
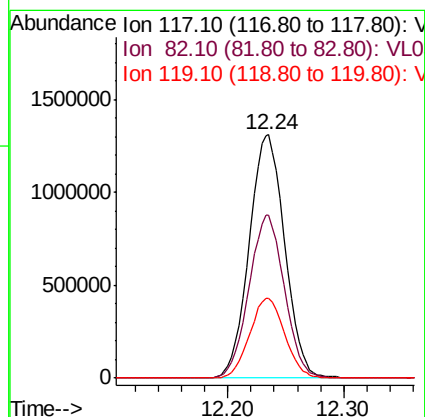
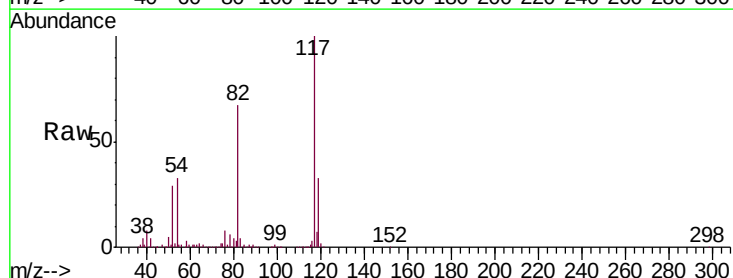
Tgt Ion: 117 Resp: 2796410

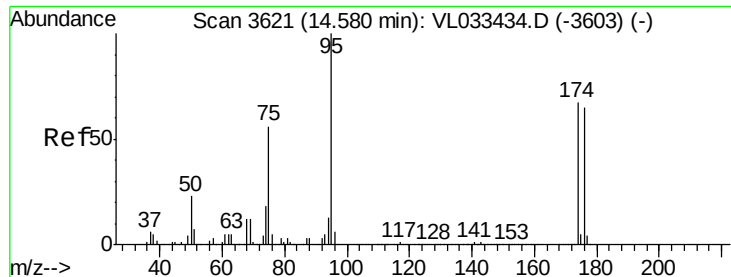
Ion Ratio Lower Upper

117 100

82 67.2 51.5 77.3

119 32.7 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.002 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033547.D

Acq: 5 Apr 2019 00:13

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA2DL

Tgt Ion: 95 Resp: 2192689

Ion Ratio Lower Upper

95 100

174 66.9 52.9 79.3

175 4.9 3.8 5.6

