

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL060118\
 Data File : VL032036.D
 Acq On : 2 Jun 2018 00:53
 Operator : SY/AP
 Sample : J3193-02DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA1-DUP-052518DL

Quant Time: Jun 02 02:06:20 2018
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:31:35 2018
 QLast Update : Fri Jun 01 02:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1257308	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.40	114	2575073	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.36	117	2473672	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.70	95	1932701	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

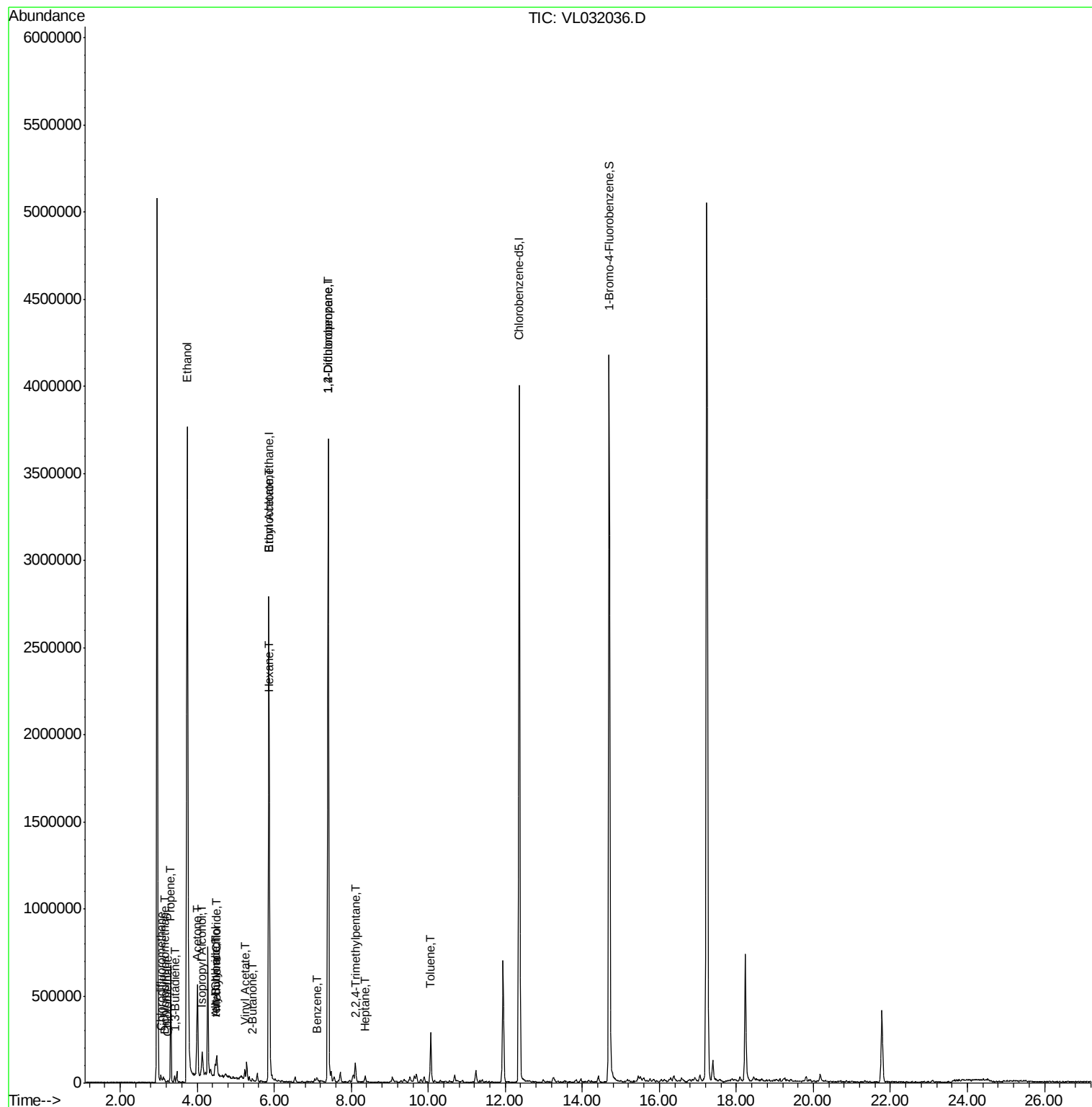
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.15	85	6737	0.04	ppbv	99
3) Chlorodifluoromethane	3.06	51	26322	0.22	ppbv #	66
4) Chloromethane	3.24	50	3255	0.05	ppbv #	61
9) Propene	3.31	41	193300	5.00	ppbv	93
10) Heptane	8.37	43	5823	0.04	ppbv #	1
13) Ethanol	3.74	45	5402404	357.87	ppbv	99
15) Acetone	3.99	43	228924	1.51	ppbv	96
16) 1,3-Butadiene	3.41	39	6902	0.12	ppbv #	13
17) tert-Butyl alcohol	4.47	59	52830	0.73	ppbv #	89
19) Isopropyl Alcohol	4.13	45	156049	1.55	ppbv #	97
20) Methylene Chloride	4.50	84	31354	0.46	ppbv #	88
21) Allyl Chloride	4.46	41	11191	0.10	ppbv #	41
23) Vinyl Acetate	5.25	43	10514	0.05	ppbv #	81
25) Ethyl Acetate	5.87	43	82461	0.27	ppbv	97
26) Hexane	5.88	57	52601	0.38	ppbv #	74
34) 2-Butanone	5.44	43	15260	0.08	ppbv #	83
36) Benzene	7.12	78	14463	0.06	ppbv #	82
39) 1,2-Dichloropropane	7.40	63	671824	8.05	ppbv #	21
44) 2,2,4-Trimethylpentane	8.11	57	83540	0.22	ppbv #	82
53) Toluene	10.06	91	183177	0.72	ppbv	99

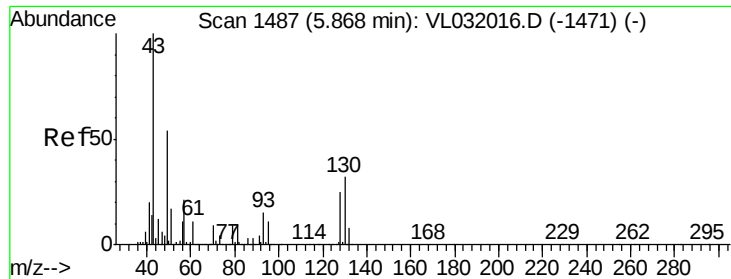
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 01 02:31:35 2018
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.86 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VL032036.D

Acq: 2 Jun 2018 00:53

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA1-DUP-052518DL

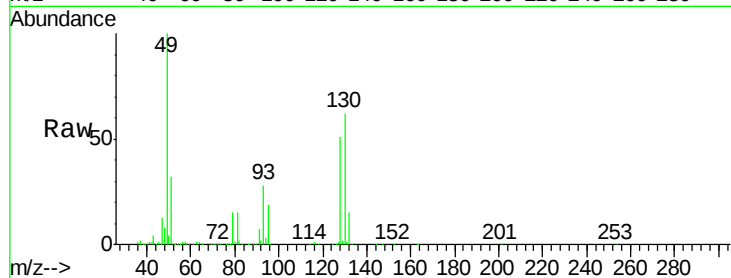
Tgt Ion: 49 Resp: 1257308

Ion Ratio Lower Upper

49 100

128 49.7 24.1 72.3

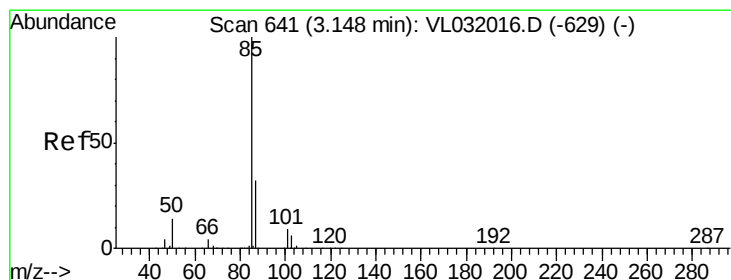
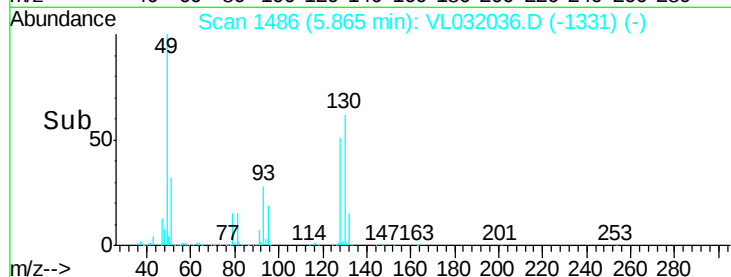
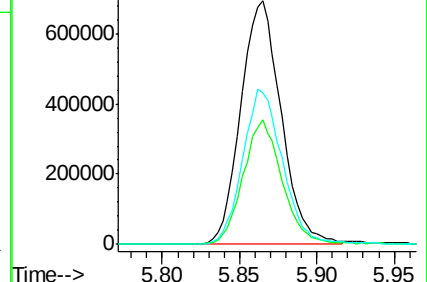
130 63.5 30.9 92.8



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



#2

Dichlorodifluoromethane

Concen: 0.04 ppbv

RT: 3.15 min Scan# 642

Delta R.T. 0.00 min

Lab File: VL032036.D

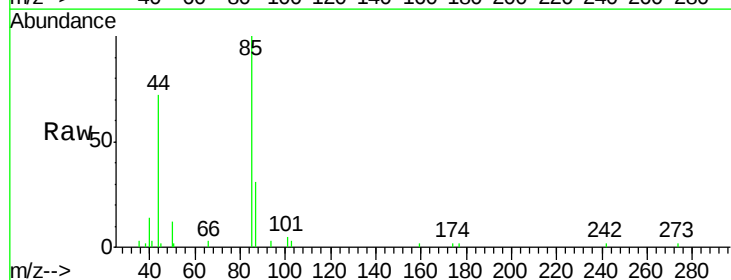
Acq: 2 Jun 2018 00:53

Tgt Ion: 85 Resp: 6737

Ion Ratio Lower Upper

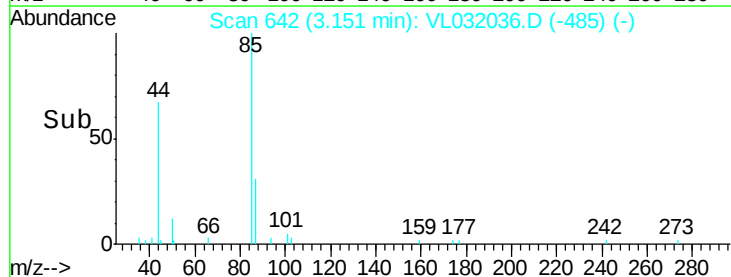
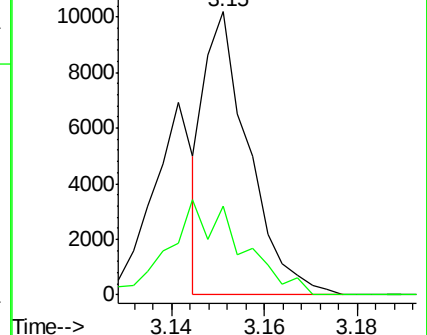
85 100

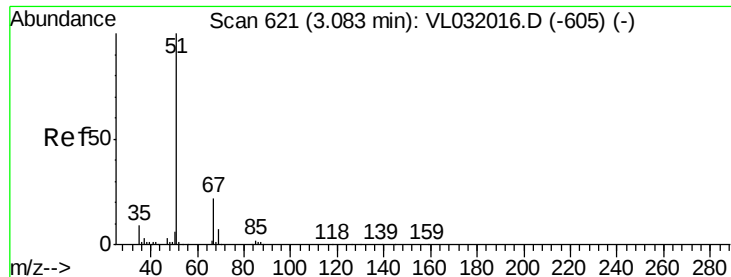
87 31.4 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.22 ppbv

RT: 3.06 min Scan# 614

Delta R.T. -0.02 min

Lab File: VL032036.D

Acq: 2 Jun 2018 00:53

Instrument :

MSVOA_L

ClientSampleId :

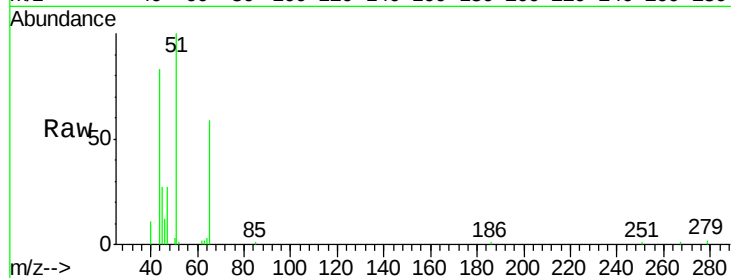
LIHA-IA1-DUP-052518DL

Tgt Ion: 51 Resp: 26322

Ion Ratio Lower Upper

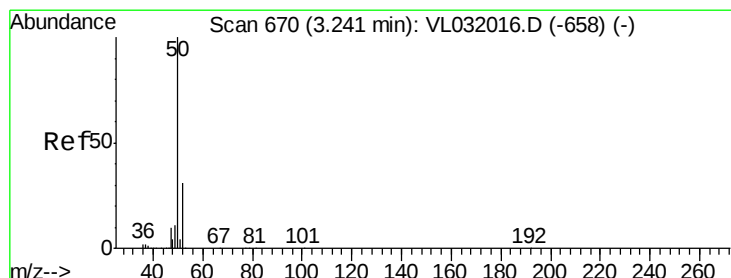
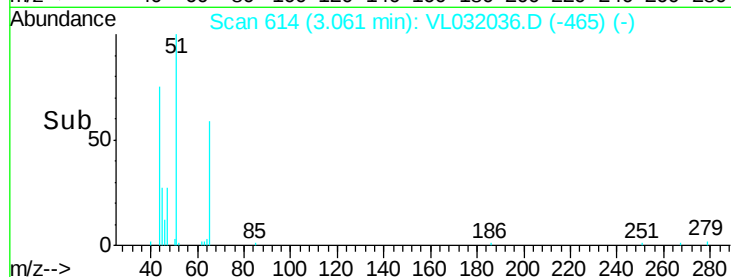
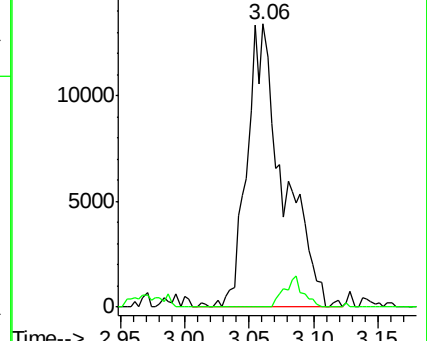
51 100

67 5.7 17.2 25.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.05 ppbv

RT: 3.24 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL032036.D

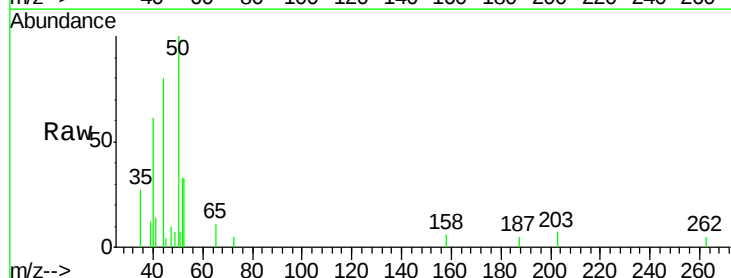
Acq: 2 Jun 2018 00:53

Tgt Ion: 50 Resp: 3255

Ion Ratio Lower Upper

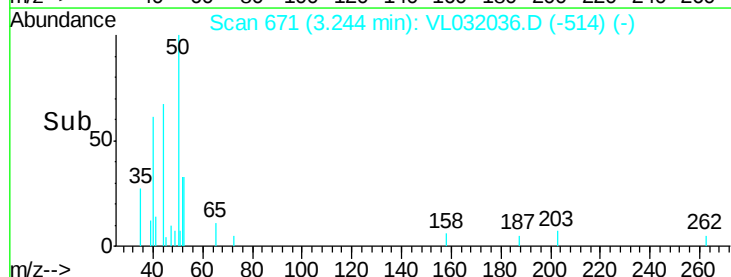
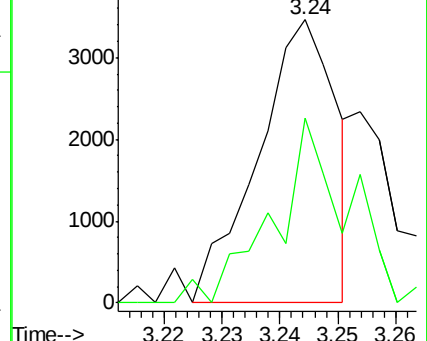
50 100

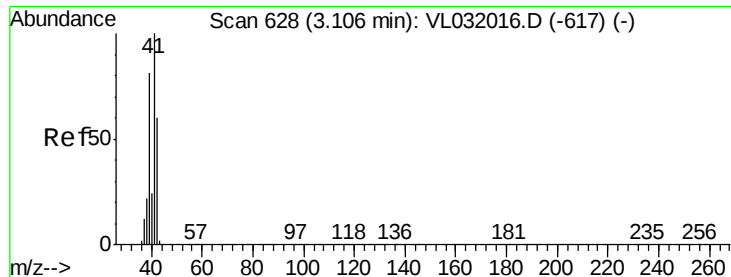
52 53.1 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 5.00 ppbv

RT: 3.31 min Scan# 692

Delta R.T. 0.21 min

Lab File: VL032036.D

Acq: 2 Jun 2018 00:53

Instrument :

MSVOA_L

ClientSampleId :

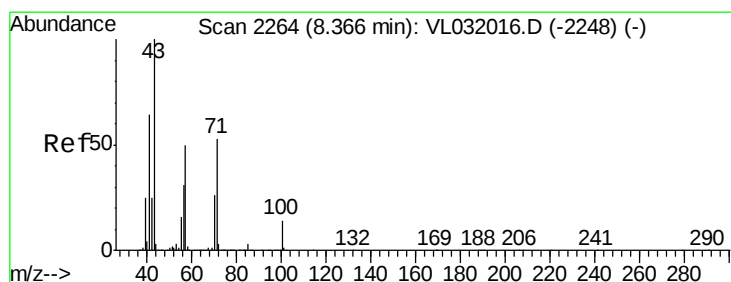
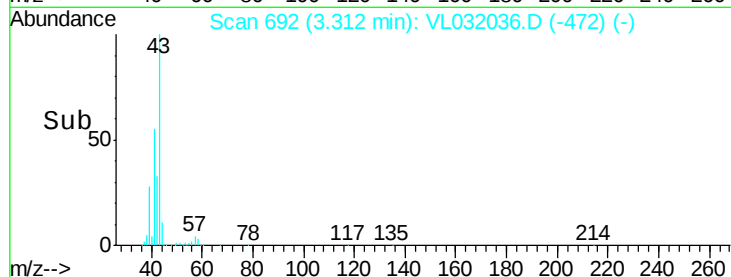
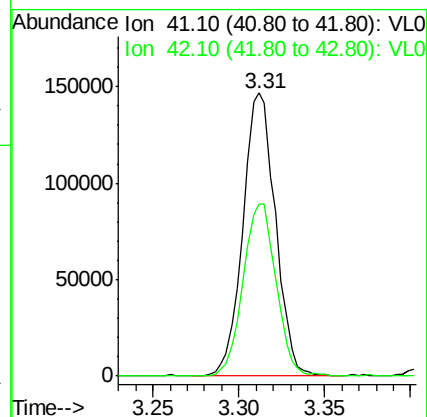
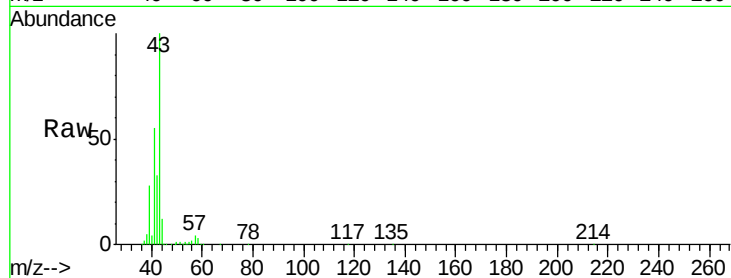
LIHA-IA1-DUP-052518DL

Tgt Ion: 41 Resp: 193300

Ion Ratio Lower Upper

41 100

42 62.1 54.4 81.6



#10

Heptane

Concen: 0.04 ppbv

RT: 8.37 min Scan# 2264

Delta R.T. 0.00 min

Lab File: VL032036.D

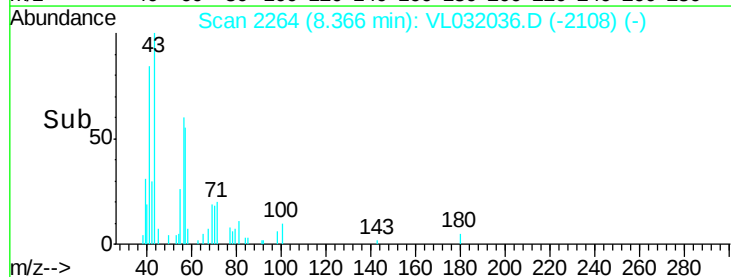
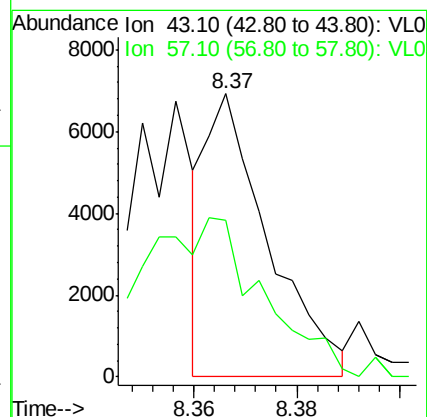
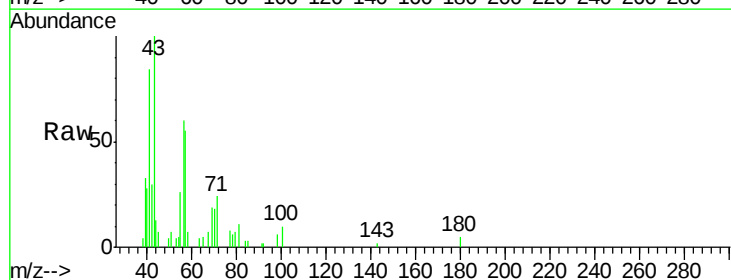
Acq: 2 Jun 2018 00:53

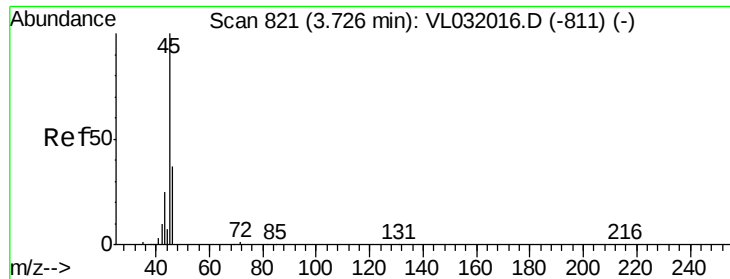
Tgt Ion: 43 Resp: 5823

Ion Ratio Lower Upper

43 100

57 126.5 41.7 62.5#





#13

Ethanol

Concen: 357.87 ppbv

RT: 3.74 min Scan# 825

Delta R.T. 0.01 min

Lab File: VL032036.D

Acq: 2 Jun 2018 00:53

Instrument :

MSVOA_L

ClientSampleId :

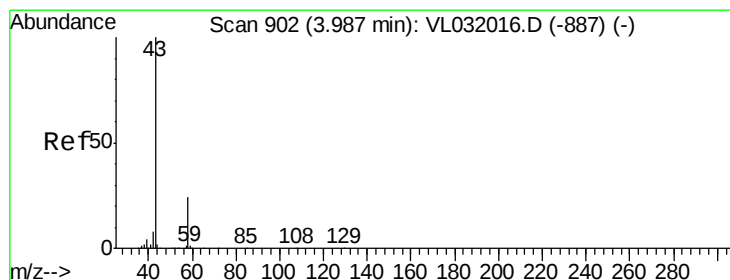
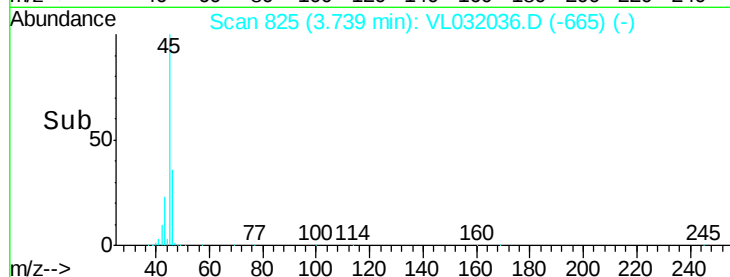
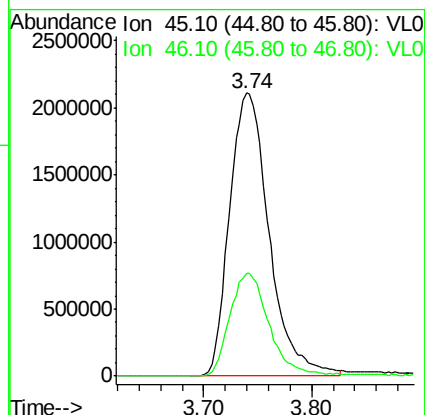
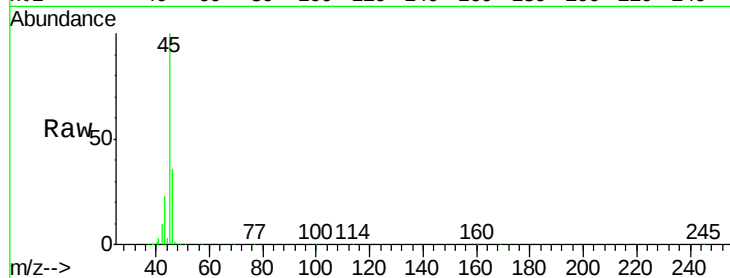
LIHA-IA1-DUP-052518DL

Tgt Ion: 45 Resp: 5402404

Ion Ratio Lower Upper

45 100

46 36.8 14.9 59.5



#15

Acetone

Concen: 1.51 ppbv

RT: 3.99 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL032036.D

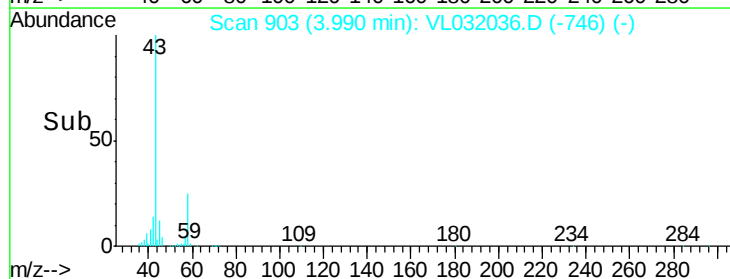
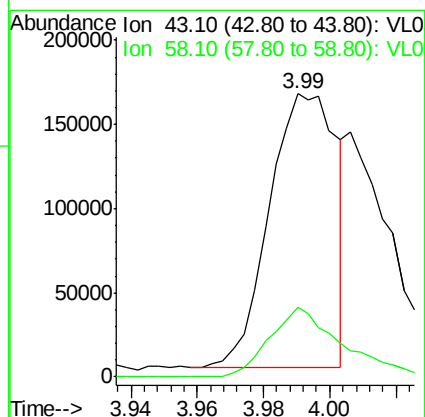
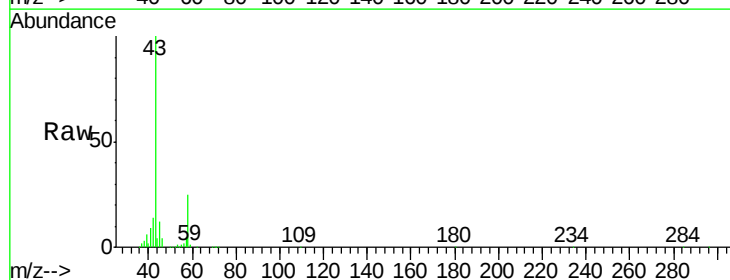
Acq: 2 Jun 2018 00:53

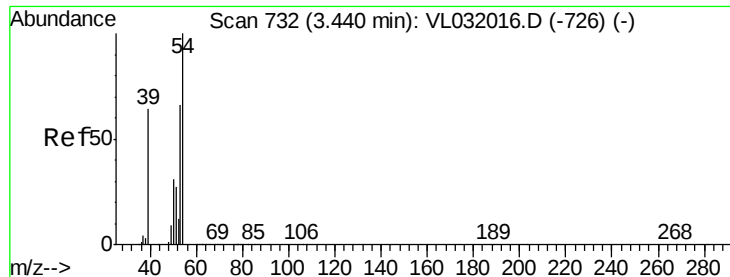
Tgt Ion: 43 Resp: 228924

Ion Ratio Lower Upper

43 100

58 27.8 20.7 31.1

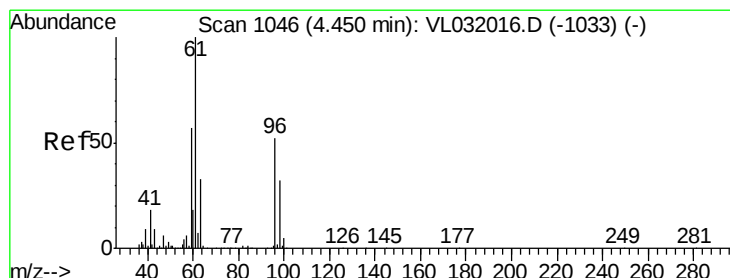
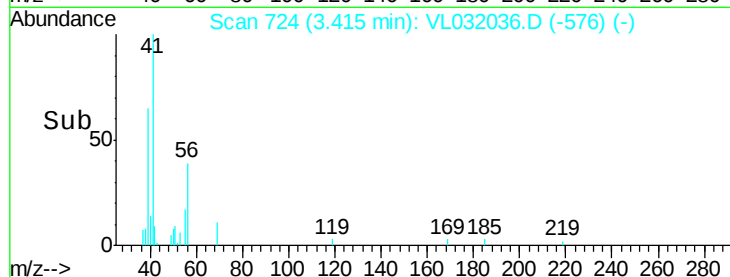
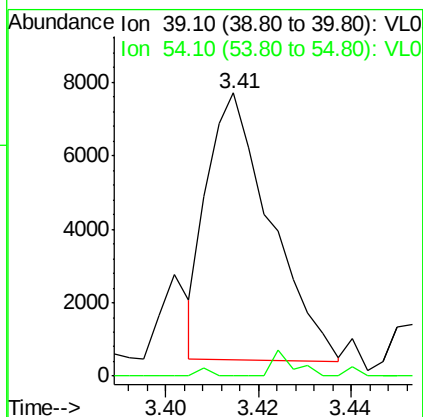
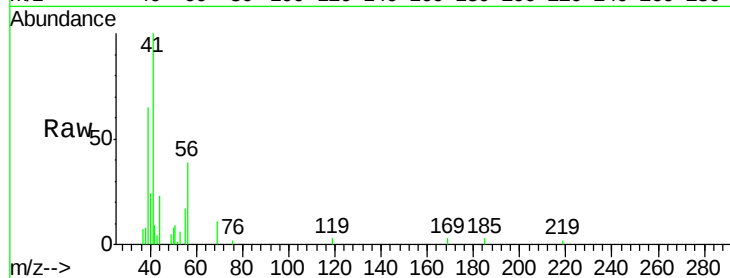




#16
 1,3-Butadiene
 Concen: 0.12 ppbv
 RT: 3.41 min Scan# 724
 Delta R.T. -0.03 min
 Lab File: VL032036.D
 Acq: 2 Jun 2018 00:53

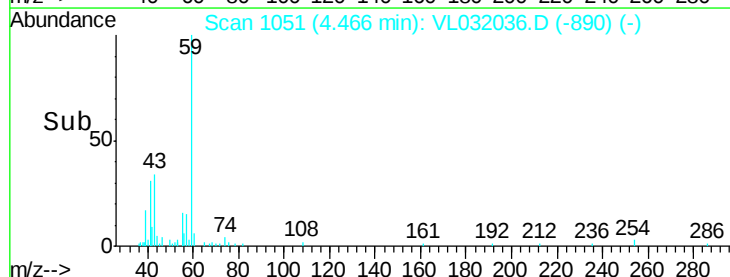
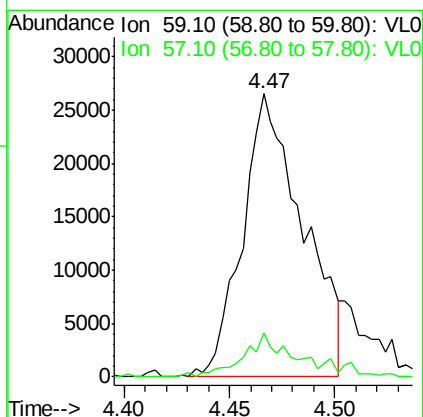
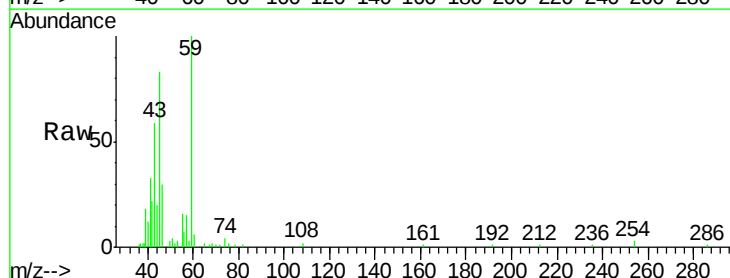
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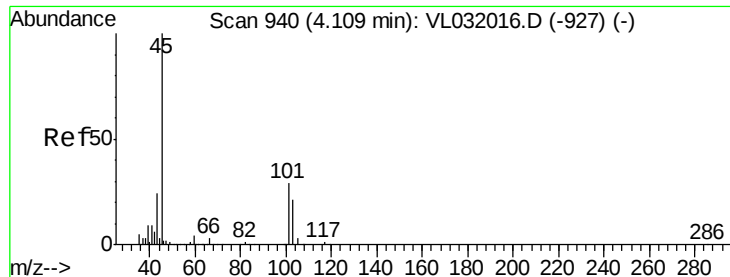
Tgt Ion: 39 Resp: 6902
 Ion Ratio Lower Upper
 39 100
 54 4.0 65.7 98.5#



#17
 tert-Butyl alcohol
 Concen: 0.73 ppbv
 RT: 4.47 min Scan# 1051
 Delta R.T. 0.02 min
 Lab File: VL032036.D
 Acq: 2 Jun 2018 00:53

Tgt Ion: 59 Resp: 52830
 Ion Ratio Lower Upper
 59 100
 57 14.4 8.3 12.5#



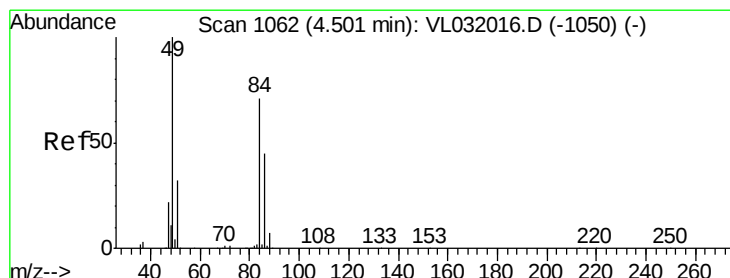
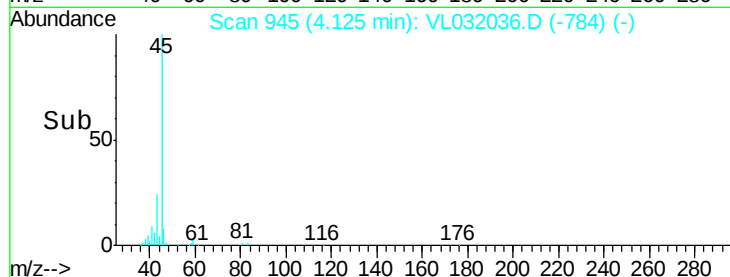
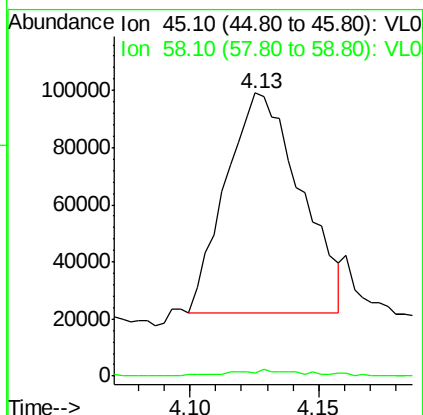
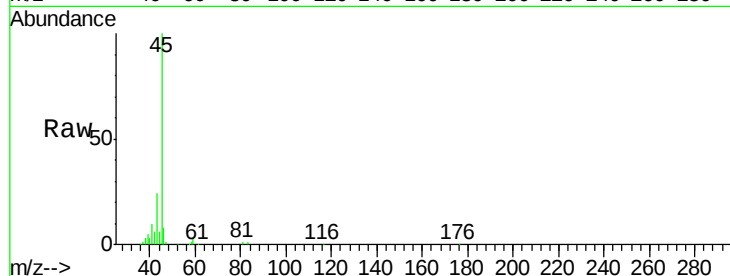


#19

Isopropyl Alcohol
 Concen: 1.55 ppbv
 RT: 4.13 min Scan# 945
 Delta R.T. 0.02 min
 Lab File: VL032036.D
 Acq: 2 Jun 2018 00:53

Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA1-DUP-052518DL

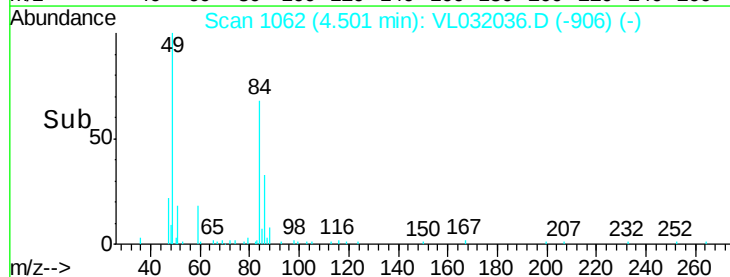
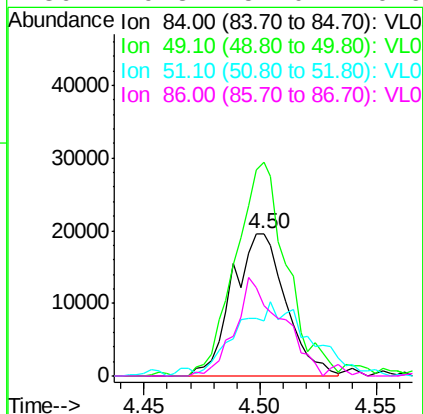
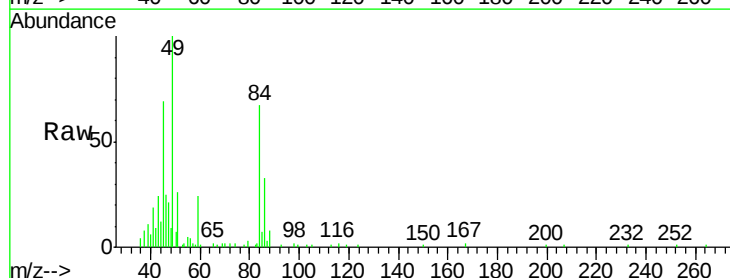
Tgt Ion: 45 Resp: 156049
 Ion Ratio Lower Upper
 45 100
 58 3.0 1.5 2.3#

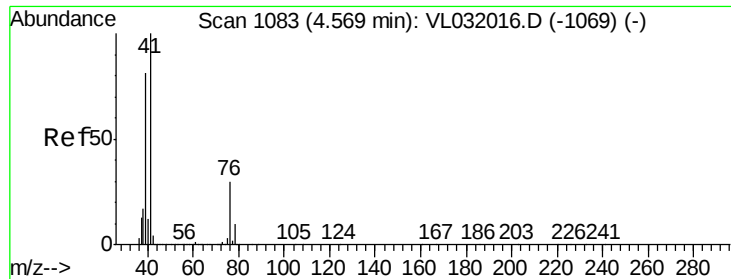


#20

Methylene Chloride
 Concen: 0.46 ppbv
 RT: 4.50 min Scan# 1062
 Delta R.T. 0.00 min
 Lab File: VL032036.D
 Acq: 2 Jun 2018 00:53

Tgt Ion: 84 Resp: 31354
 Ion Ratio Lower Upper
 84 100
 49 148.8 113.0 169.4
 51 33.2 36.4 54.6#
 86 49.3 51.0 76.6#

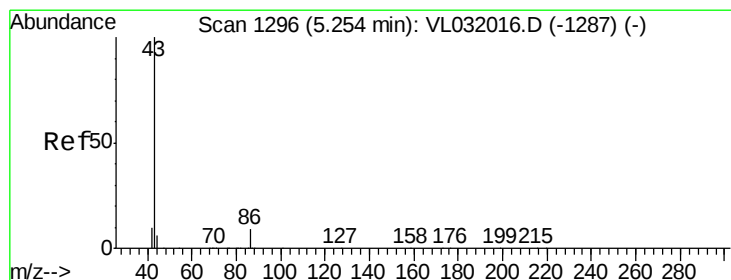
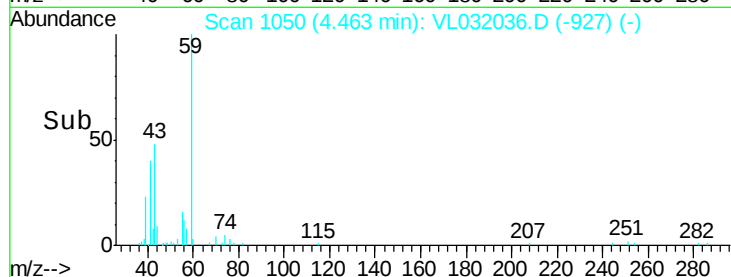
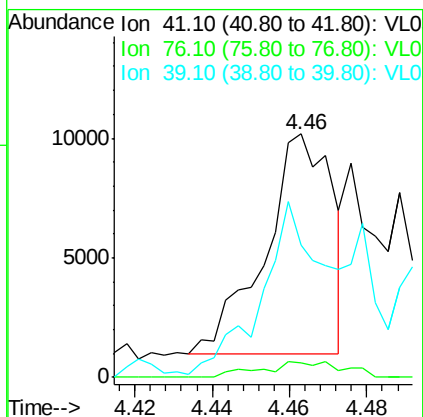
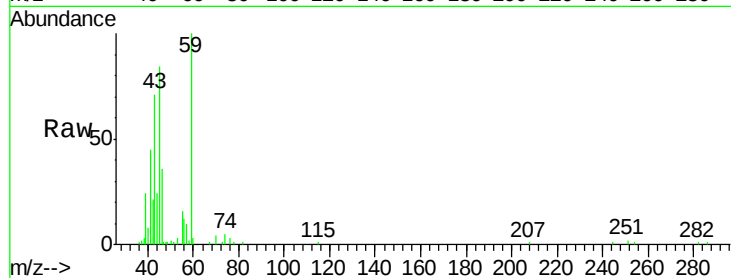




#21
 Allyl Chloride
 Concen: 0.10 ppbv
 RT: 4.46 min Scan# 1050
 Delta R.T. -0.11 min
 Lab File: VL032036.D
 Acq: 2 Jun 2018 00:53

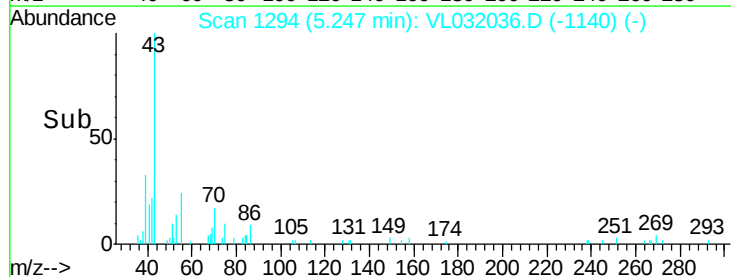
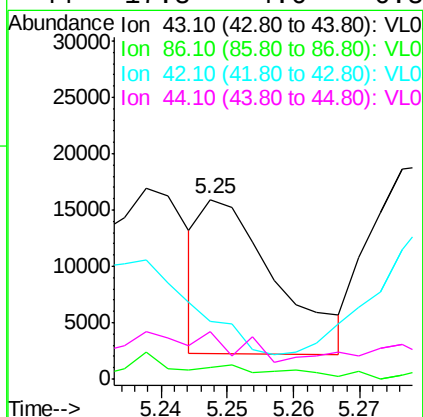
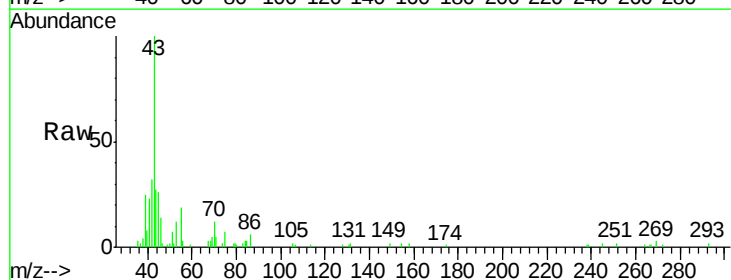
Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA1-DUP-052518DL

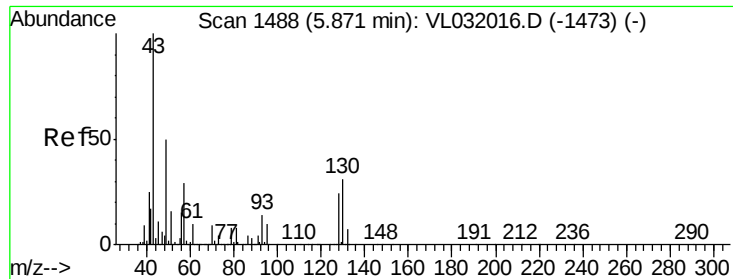
Tgt Ion: 41 Resp: 11191
 Ion Ratio Lower Upper
 41 100
 76 8.5 23.9 35.9#
 39 141.8 65.9 98.9#



#23
 Vinyl Acetate
 Concen: 0.05 ppbv
 RT: 5.25 min Scan# 1294
 Delta R.T. -0.01 min
 Lab File: VL032036.D
 Acq: 2 Jun 2018 00:53

Tgt Ion: 43 Resp: 10514
 Ion Ratio Lower Upper
 43 100
 86 7.7 6.2 9.4
 42 2.2 8.7 13.1#
 44 17.8 4.6 6.8#

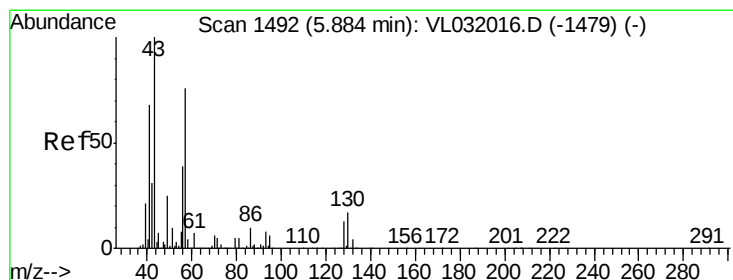
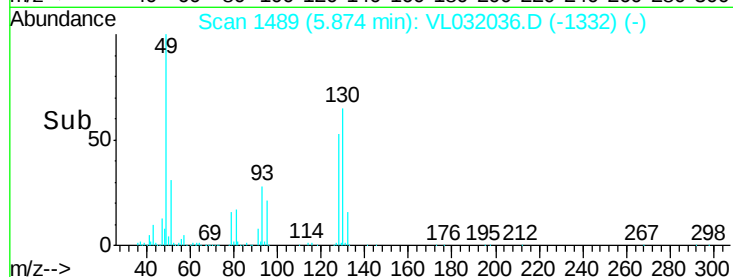
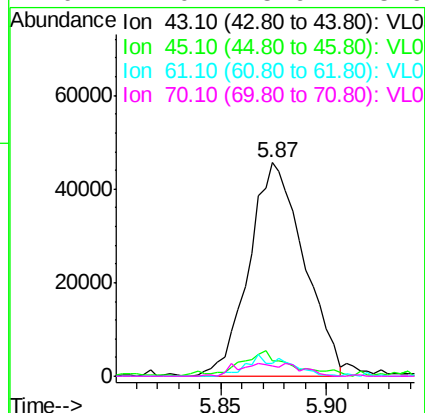
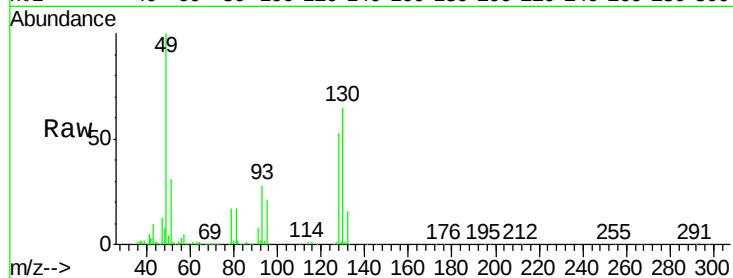




#25
Ethyl Acetate
Concen: 0.27 ppbv
RT: 5.87 min Scan# 1489
Delta R.T. 0.00 min
Lab File: VL032036.D
Acq: 2 Jun 2018 00:53

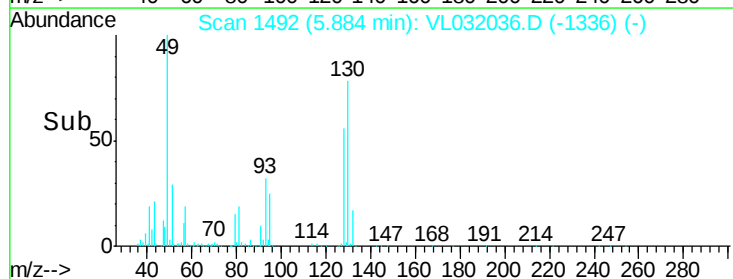
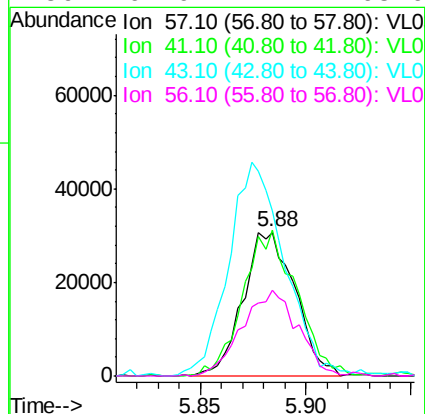
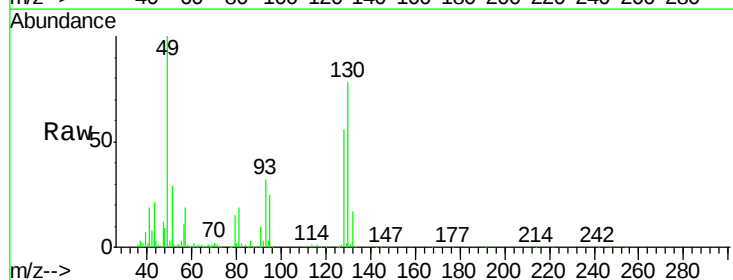
Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-DUP-052518DL

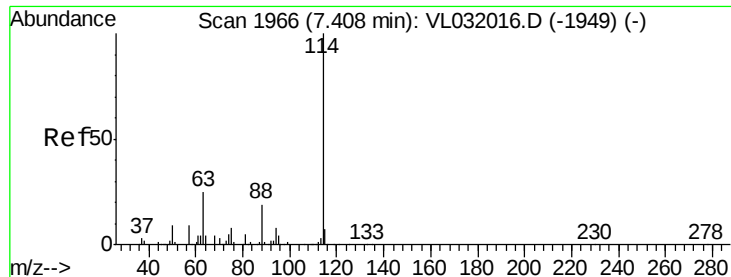
Tgt Ion:	43	Resp:	82461
Ion	Ratio	Lower	Upper
43	100		
45	10.5	7.8	11.6
61	7.9	7.4	11.2
70	7.0	5.9	8.9



#26
Hexane
Concen: 0.38 ppbv
RT: 5.88 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VL032036.D
Acq: 2 Jun 2018 00:53

Tgt Ion:	57	Resp:	52601
Ion	Ratio	Lower	Upper
57	100		
41	106.2	71.4	107.2
43	161.8	168.6	252.8#
56	64.9	42.4	63.6#

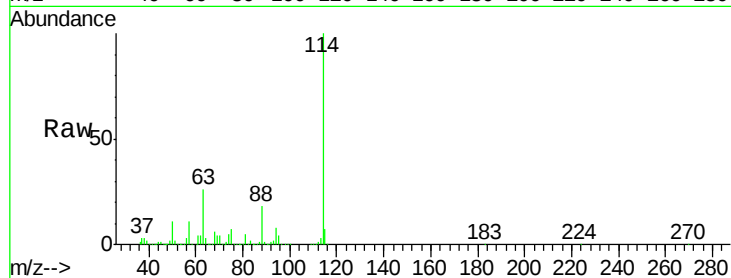




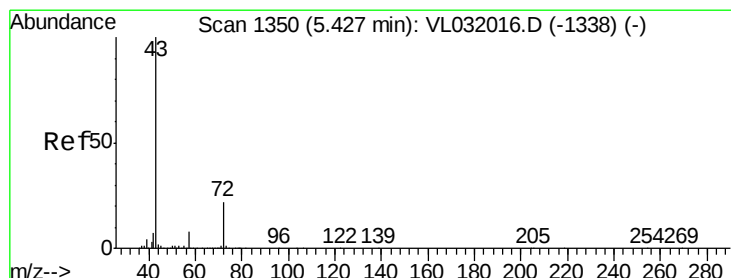
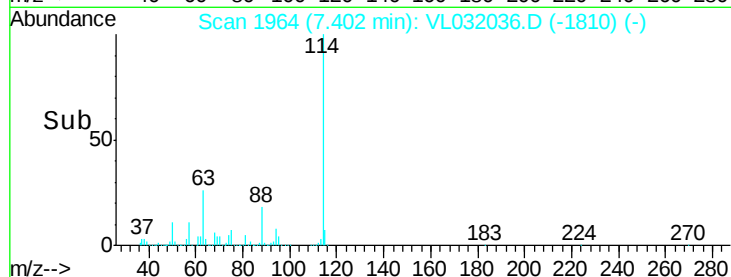
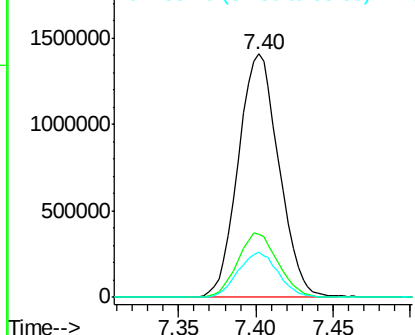
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.40 min Scan# 1964
 Delta R.T. -0.01 min
 Lab File: VL032036.D
 Acq: 2 Jun 2018 00:53

Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA1-DUP-052518DL

Tgt Ion:114 Resp: 2575073
 Ion Ratio Lower Upper
 114 100
 63 26.4 21.1 31.7
 88 18.5 14.8 22.2

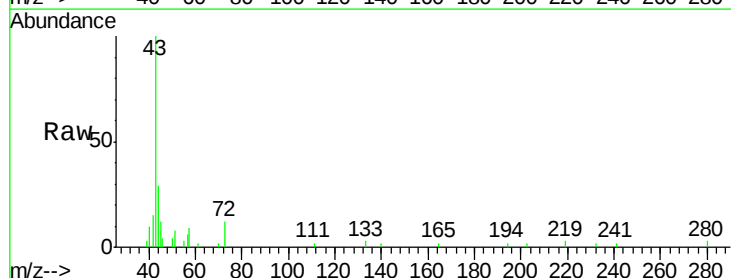


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

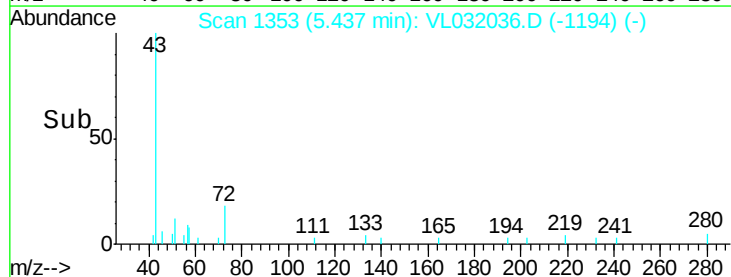
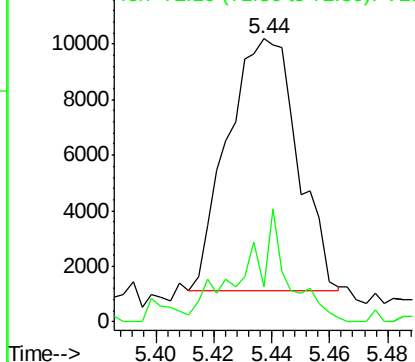


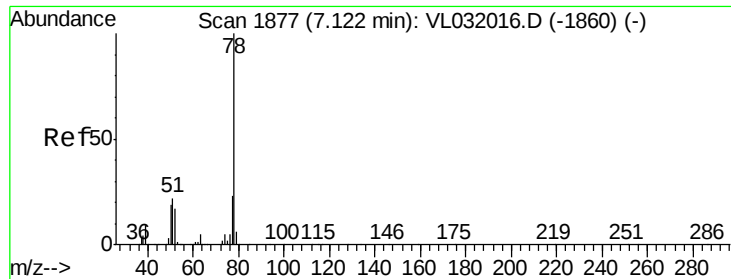
#34
 2-Butanone
 Concen: 0.08 ppbv
 RT: 5.44 min Scan# 1353
 Delta R.T. 0.01 min
 Lab File: VL032036.D
 Acq: 2 Jun 2018 00:53

Tgt Ion: 43 Resp: 15260
 Ion Ratio Lower Upper
 43 100
 72 31.4 18.6 27.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.06 ppbv

RT: 7.12 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VL032036.D

Acq: 2 Jun 2018 00:53

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA1-DUP-052518DL

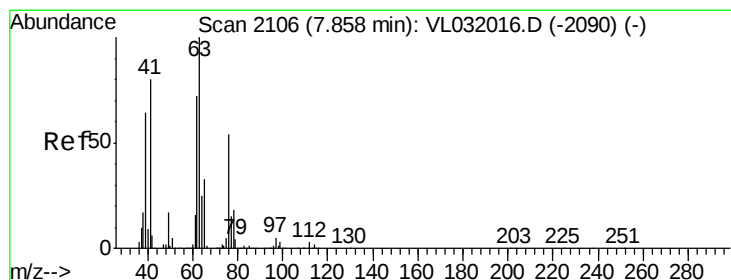
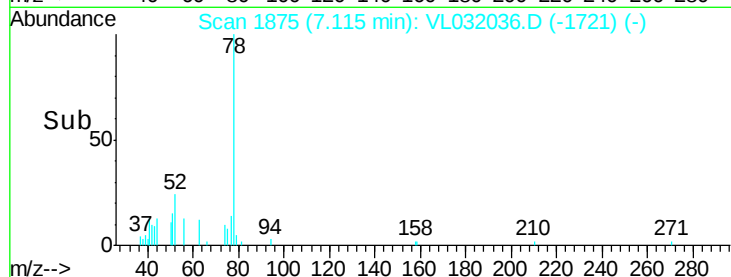
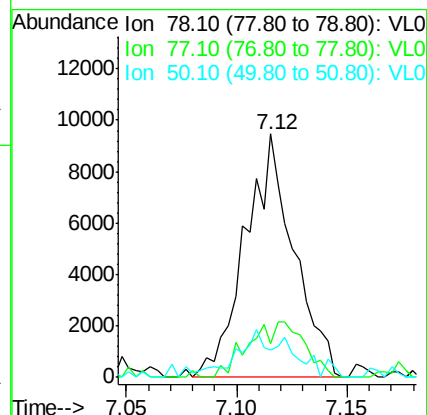
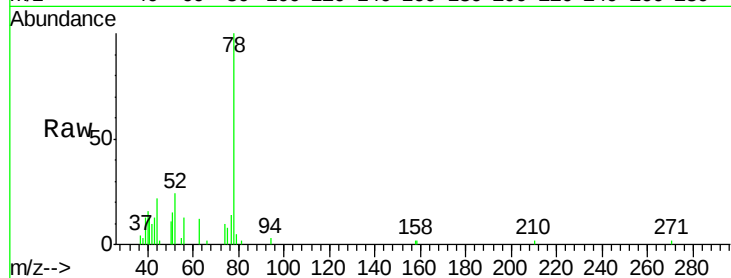
Tgt Ion: 78 Resp: 14463

Ion Ratio Lower Upper

78 100

77 13.9 18.1 27.1#

50 11.1 14.9 22.3#



#39

1,2-Dichloropropane

Concen: 8.05 ppbv

RT: 7.40 min Scan# 1963

Delta R.T. -0.46 min

Lab File: VL032036.D

Acq: 2 Jun 2018 00:53

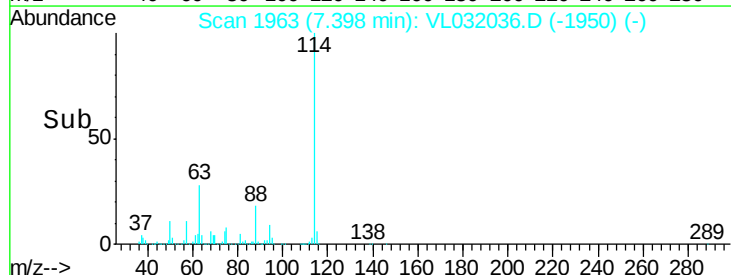
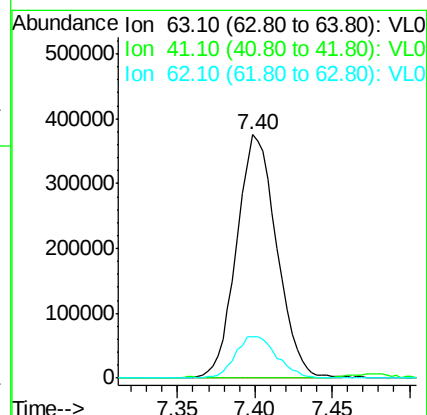
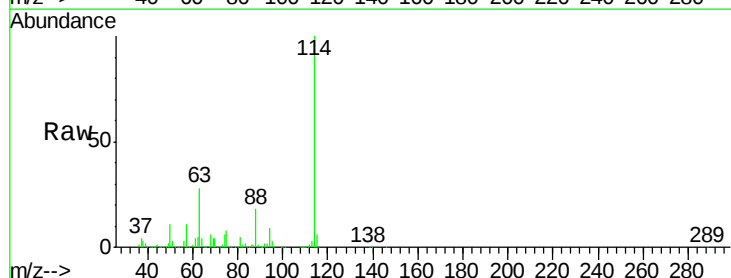
Tgt Ion: 63 Resp: 671824

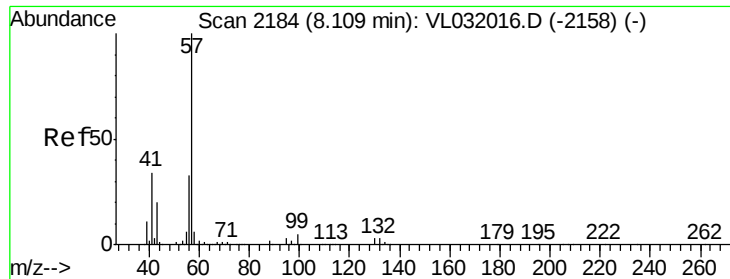
Ion Ratio Lower Upper

63 100

41 0.0 64.0 96.0#

62 17.3 57.6 86.4#





#44

2,2,4-Trimethylpentane

Concen: 0.22 ppbv

RT: 8.11 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032036.D

Acq: 2 Jun 2018 00:53

Instrument :

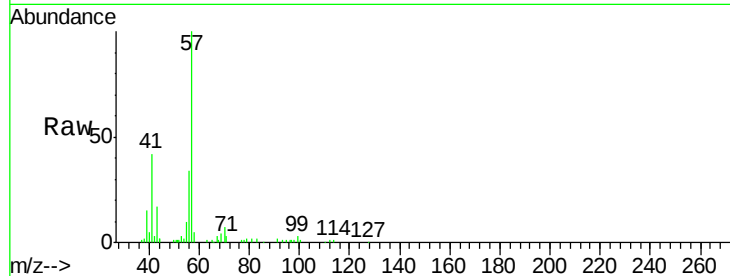
MSVOA_L

ClientSampleId :

LIHA-IA1-DUP-052518DL

Tgt Ion: 57 Resp: 83540

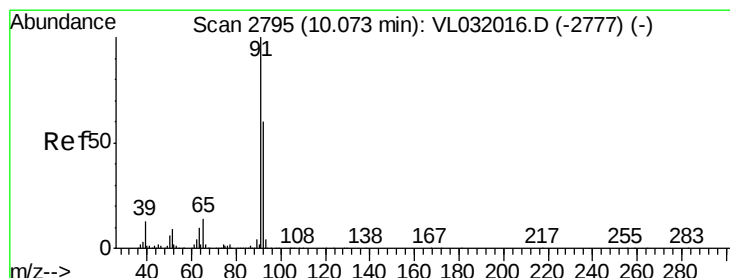
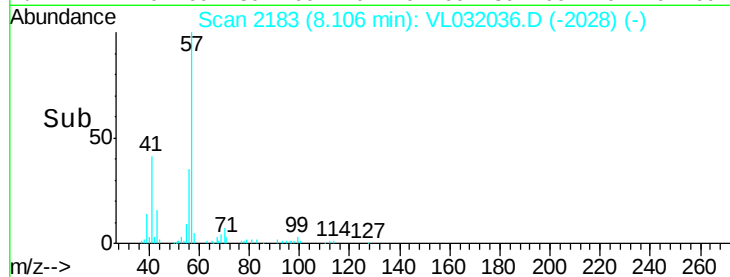
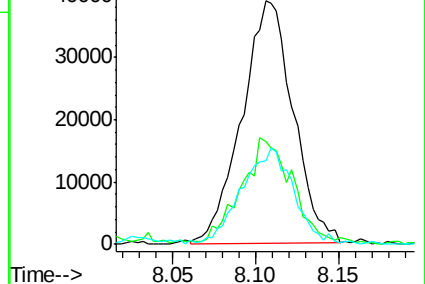
Ion	Ratio	Lower	Upper
57	100		
41	44.8	26.6	40.0#
56	39.4	24.9	37.3#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#53

Toluene

Concen: 0.72 ppbv

RT: 10.06 min Scan# 2792

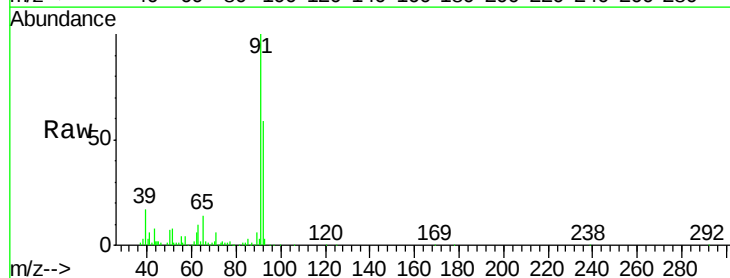
Delta R.T. -0.01 min

Lab File: VL032036.D

Acq: 2 Jun 2018 00:53

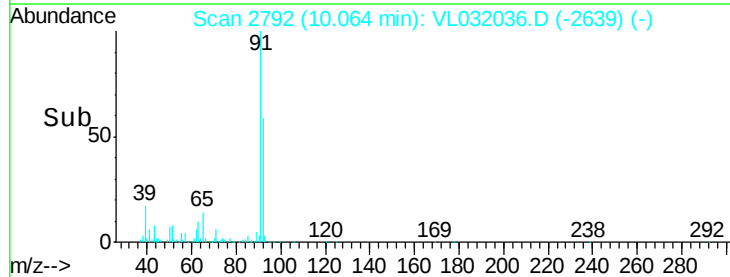
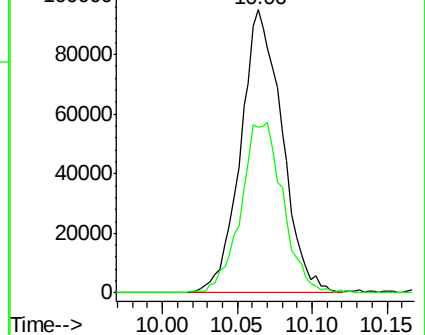
Tgt Ion: 91 Resp: 183177

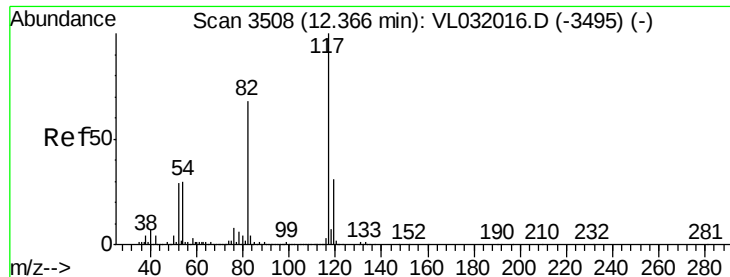
Ion	Ratio	Lower	Upper
91	100		
92	61.3	48.2	72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

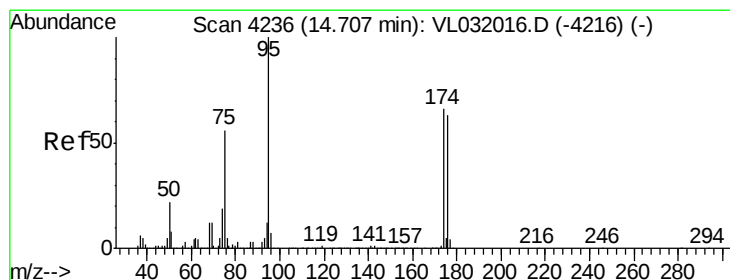
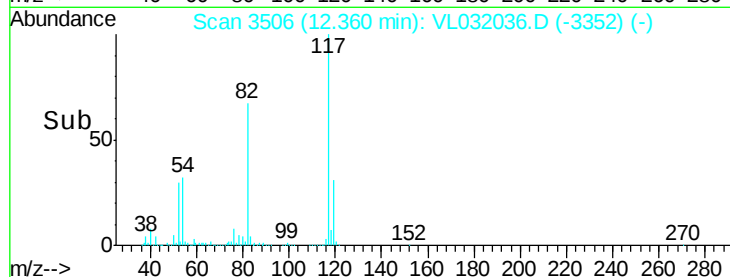
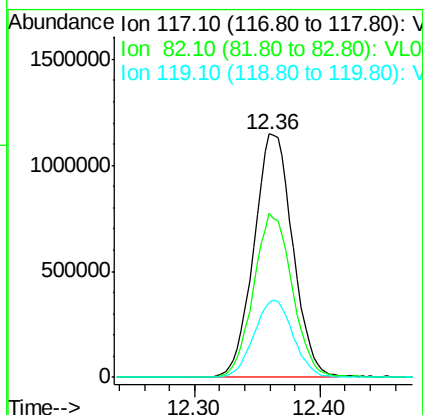
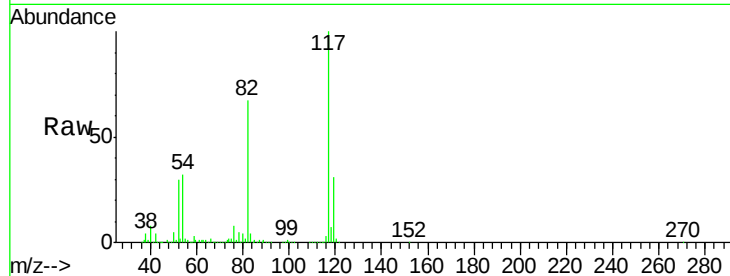




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.36 min Scan# 3506
Delta R.T. -0.01 min
Lab File: VL032036.D
Acq: 2 Jun 2018 00:53

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-DUP-052518DL

Tgt Ion: 117 Resp: 2473672
Ion Ratio Lower Upper
117 100
82 67.6 52.7 79.1
119 32.2 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.12 ppbv
RT: 14.70 min Scan# 4233
Delta R.T. -0.01 min
Lab File: VL032036.D
Acq: 2 Jun 2018 00:53

Tgt Ion: 95 Resp: 1932701
Ion Ratio Lower Upper
95 100
174 66.4 53.2 79.8
175 5.0 3.7 5.5

