

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

Manual Integrations
 APPROVED

MMDadoda
 6/4/2018 3:35:52 PM

Quant Time: Jun 03 13:58:26 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 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	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.74	45	5402404	357.87	ppbv	99
15) Acetone	3.99	43	228924	1.51	ppbv	96
19) Isopropyl Alcohol	4.13	45	271171m	2.70	ppbv	
20) Methylene Chloride	4.50	84	31354	0.46	ppbv #	88
25) Ethyl Acetate	5.87	43	82461	0.27	ppbv	97
26) Hexane	5.88	57	52601	0.38	ppbv #	74
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

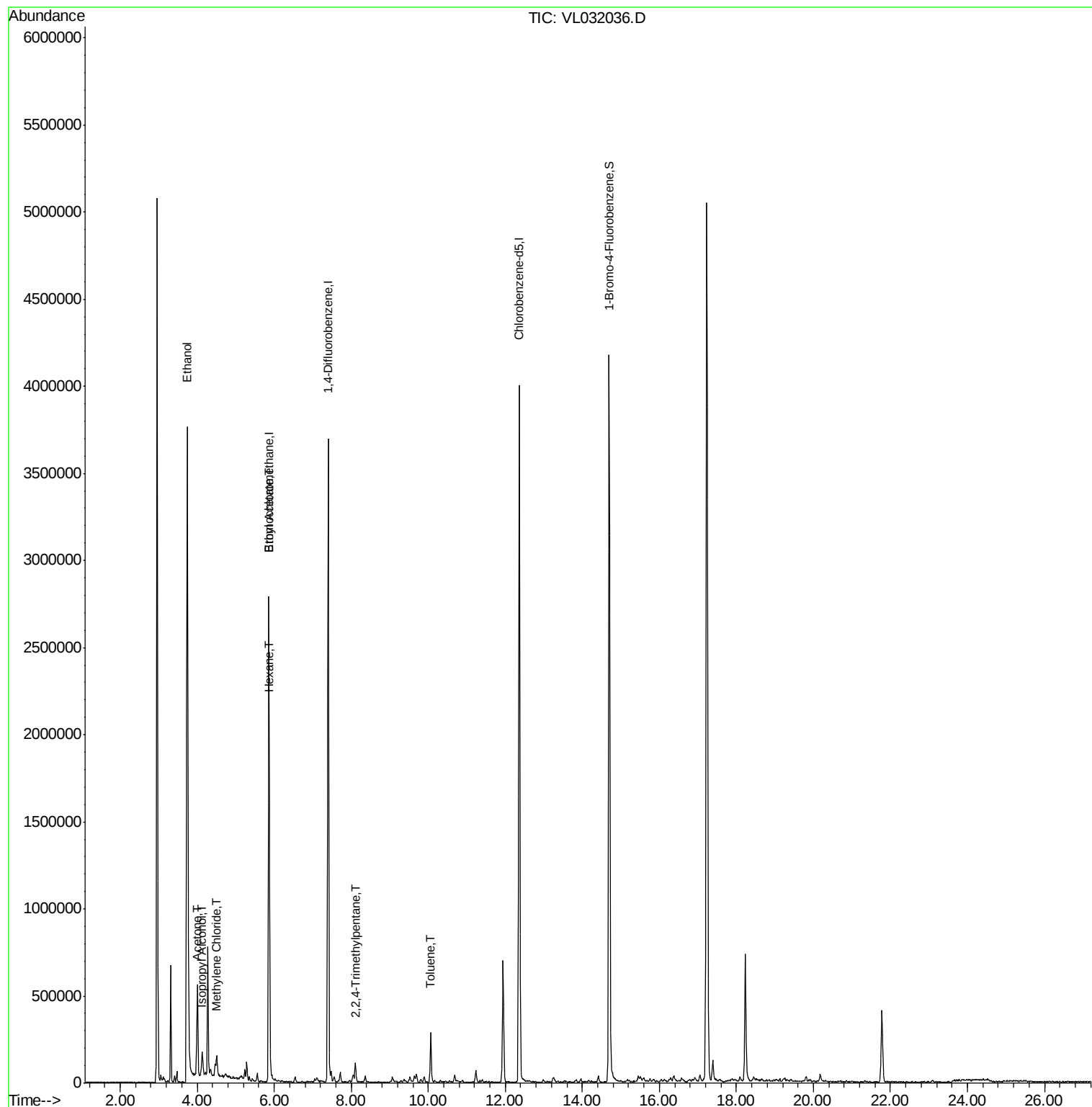
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL060118\
Data File : VL032036.D
Acq On : 2 Jun 2018 00:53
Operator : SY/AP
Sample : J3193-02DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

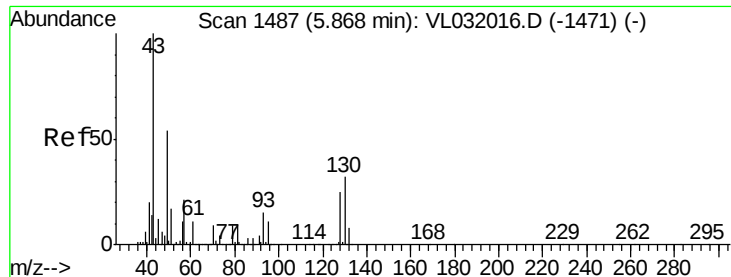
Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-DUP-052518DL

Manual Integrations
APPROVED

MMDadoda
6/4/2018 3:35:52 PM

Quant Time: Jun 03 13:58:26 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 01 02:31:35 2018
Response via : Initial Calibration





#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

Tot Ion: 49 Resp: 1257308

Ion Ratio Lower Upper

49 100

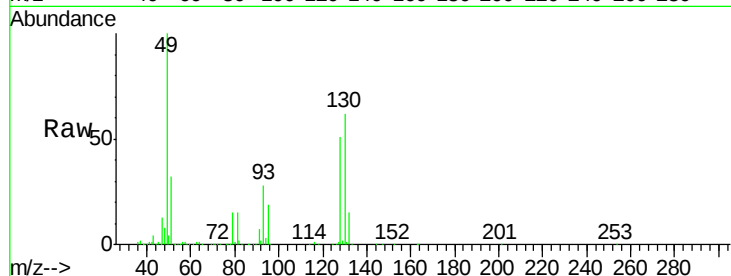
128 49.7 24.1 72.3

130 63.5 30.9 92.8

Manual Integrations
APPROVED

MMDadoda

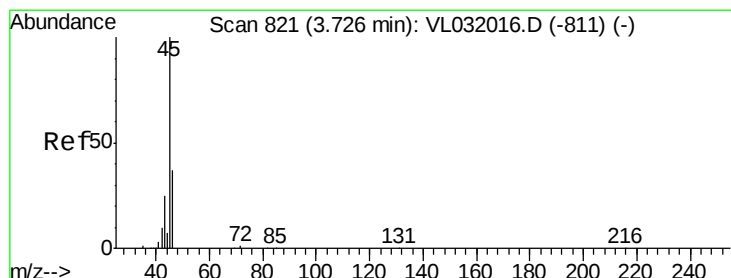
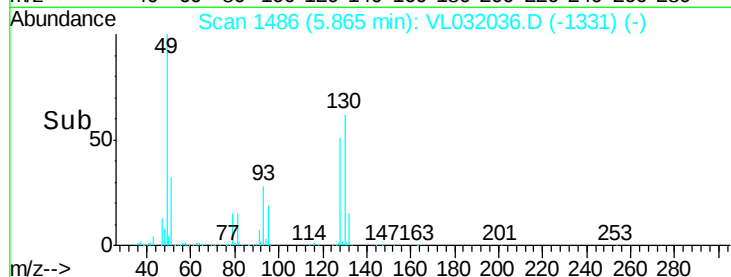
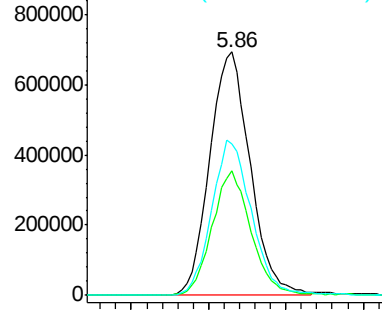
6/4/2018 3:35:52 PM



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



#13

Ethanol

Concen: 357.87 ppbv

RT: 3.74 min Scan# 825

Delta R.T. 0.01 min

Lab File: VL032036.D

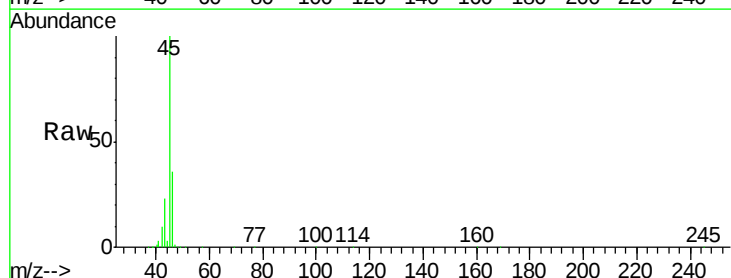
Acq: 2 Jun 2018 00:53

Tgt Ion: 45 Resp: 5402404

Ion Ratio Lower Upper

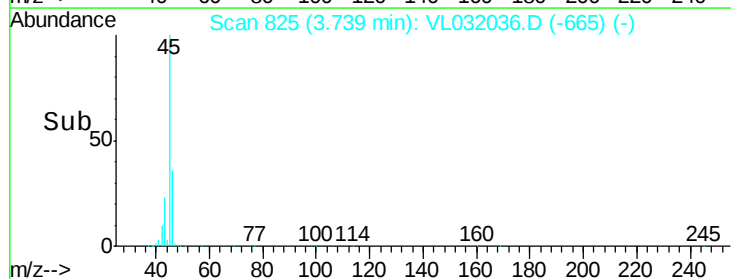
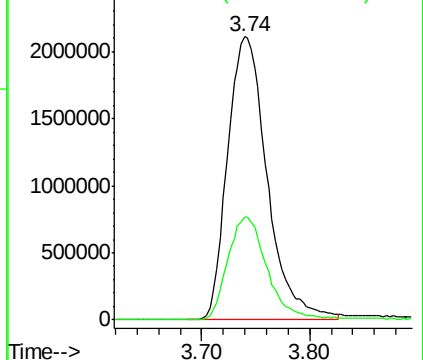
45 100

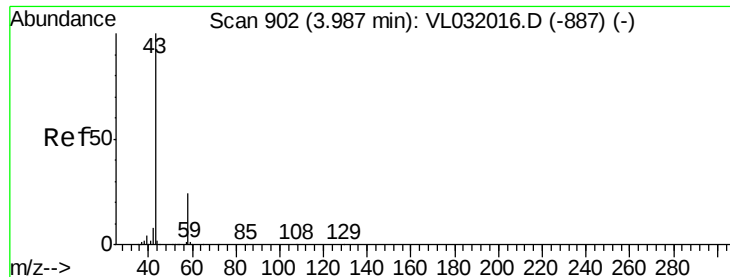
46 36.8 14.9 59.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#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

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA1-DUP-052518DL

Tot Ion: 43 Resp: 228924

Ion Ratio Lower Upper

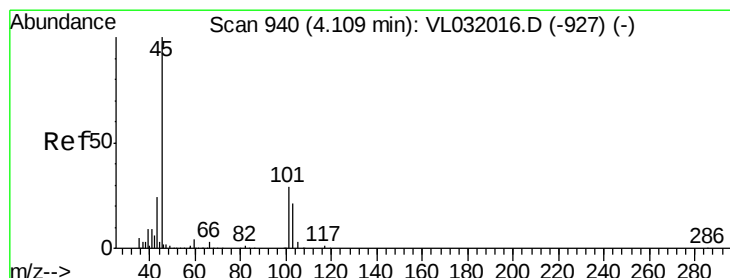
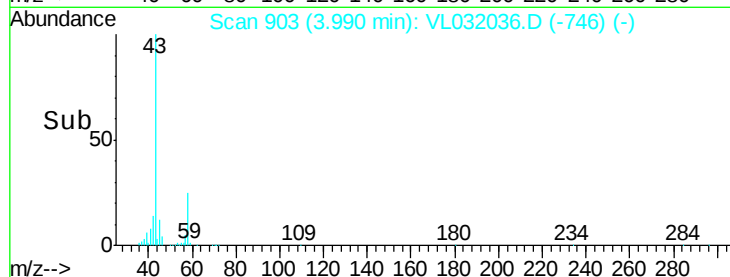
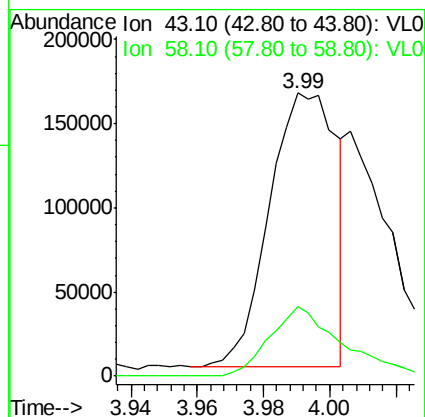
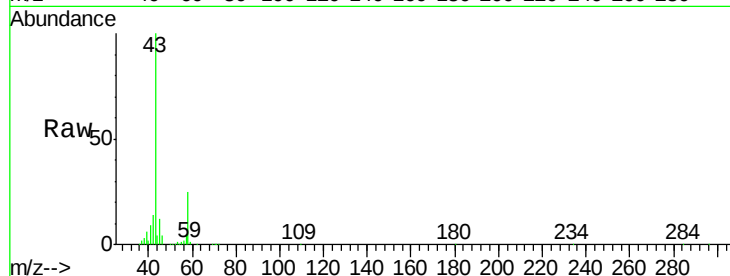
43 100

58 27.8 20.7 31.1

Manual Integrations
APPROVED

MMDadoda

6/4/2018 3:35:52 PM



#19

Isopropyl Alcohol

Concen: 2.70 ppbv m

RT: 4.13 min Scan# 945

Delta R.T. 0.02 min

Lab File: VL032036.D

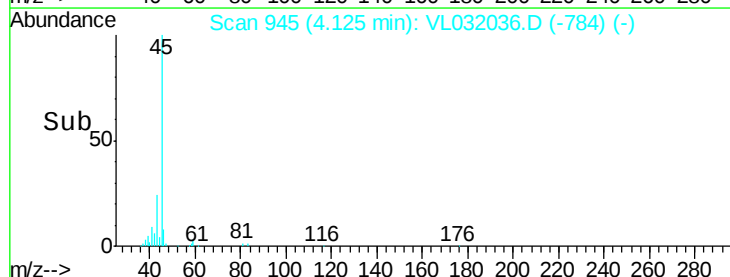
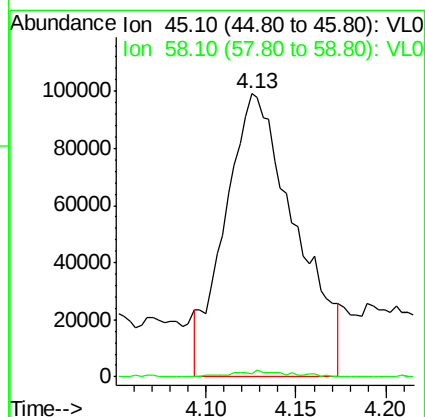
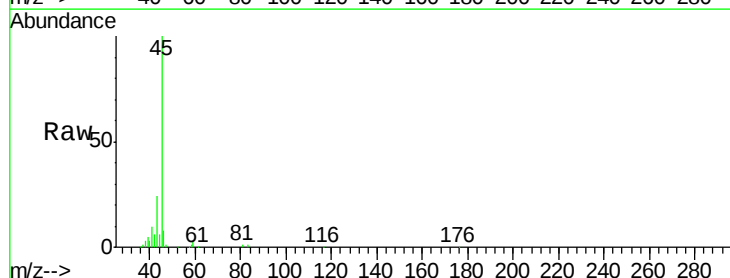
Acq: 2 Jun 2018 00:53

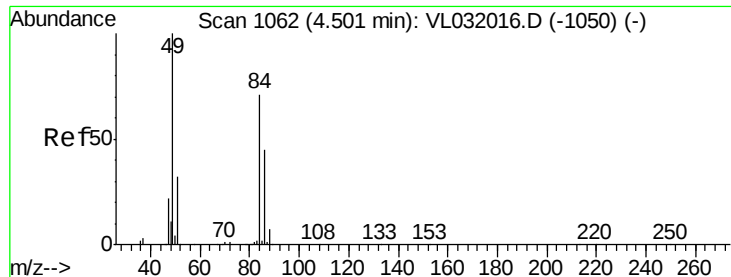
Tgt Ion: 45 Resp: 271171

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#





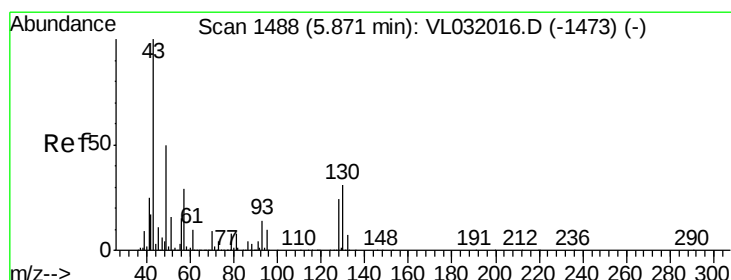
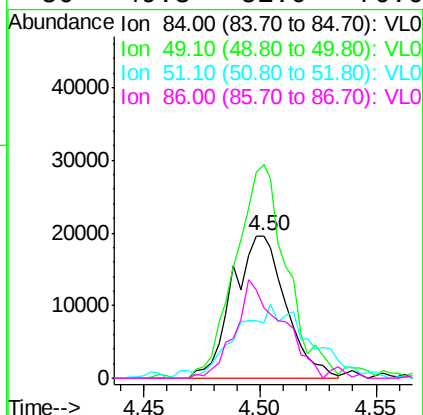
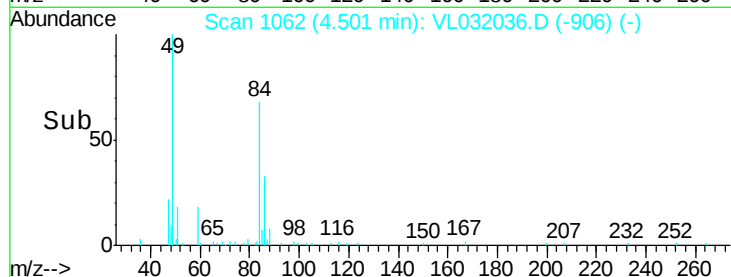
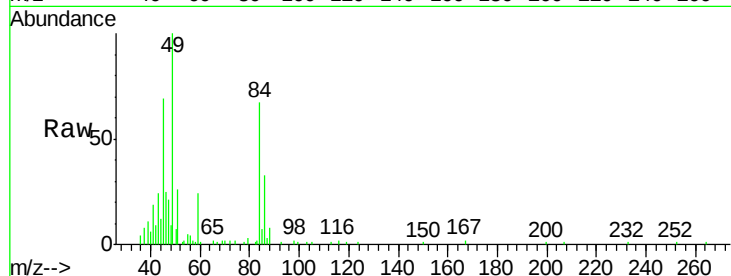
#20
Methvlene Chloride
Concen: 0.46 ppbv
RT: 4.50 min Scan# 1062
Delta R.T. 0.00 min
Lab File: VL032036.D
Acq: 2 Jun 2018 00:53

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

Tot Ion	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	

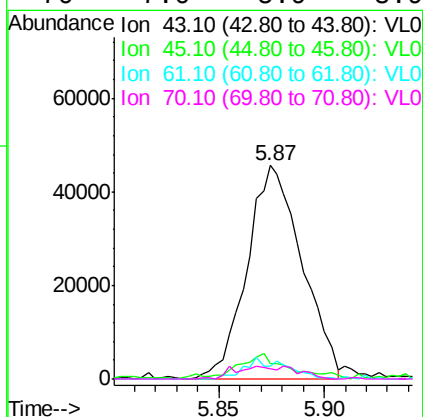
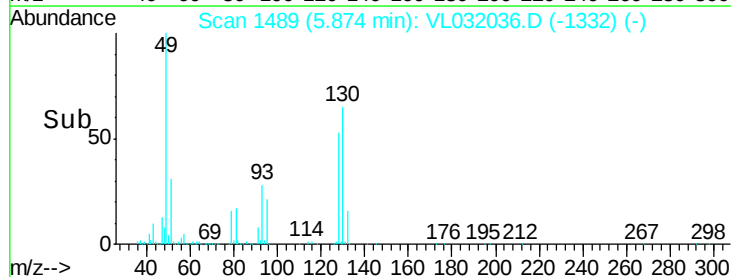
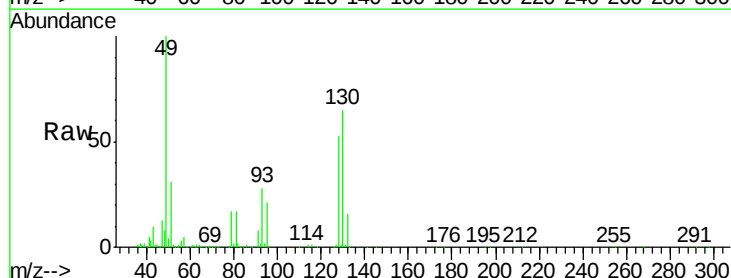
Manual Integrations
APPROVED

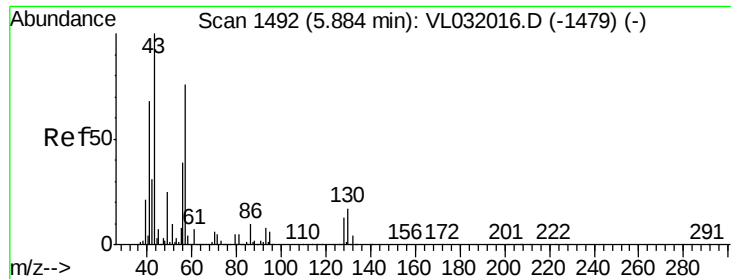
MMDadoda
6/4/2018 3:35:52 PM



#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

Tgt Ion	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	





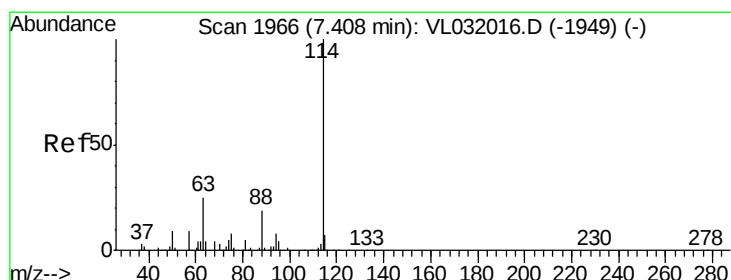
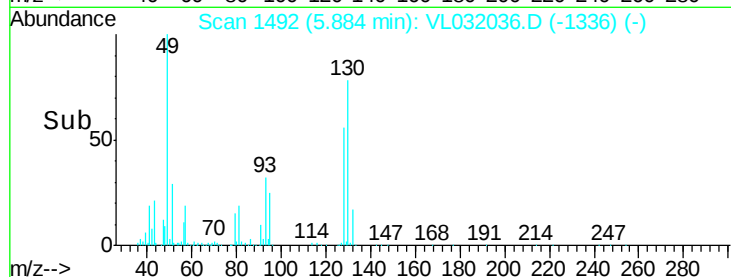
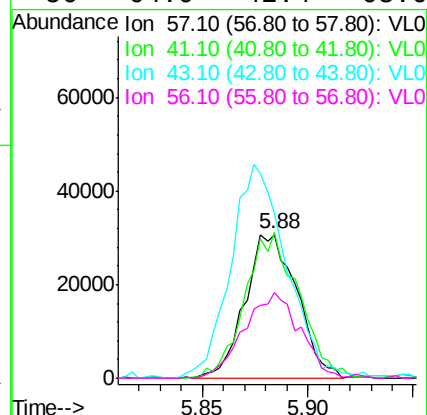
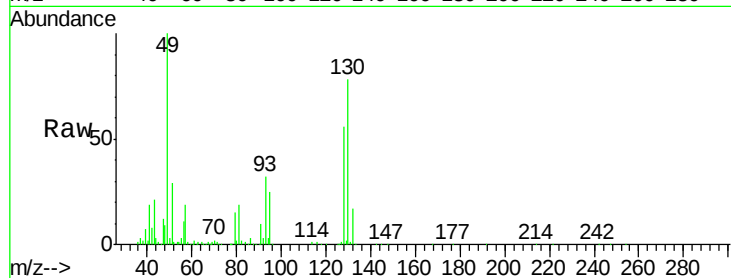
#26
Hexane
Concen: 0.38 ppbv
RT: 5.88 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VL032036.D
Acq: 2 Jun 2018 00:53

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

Tot 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#

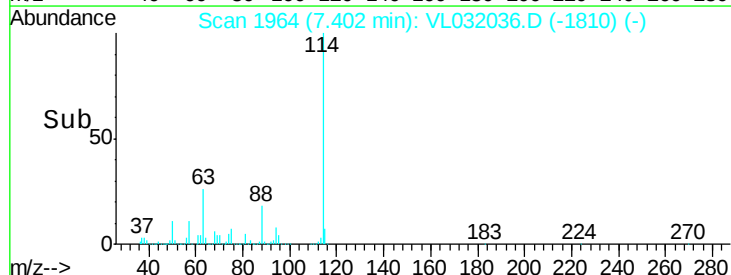
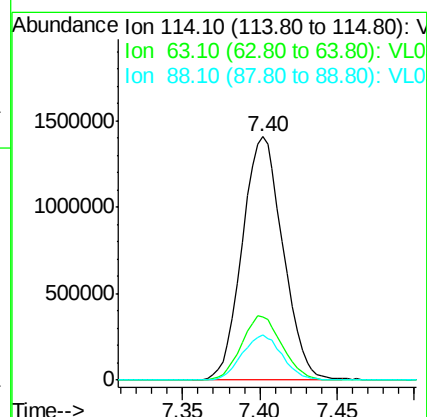
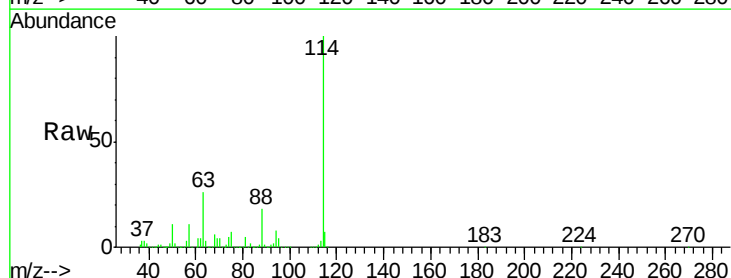
Manual Integrations
APPROVED

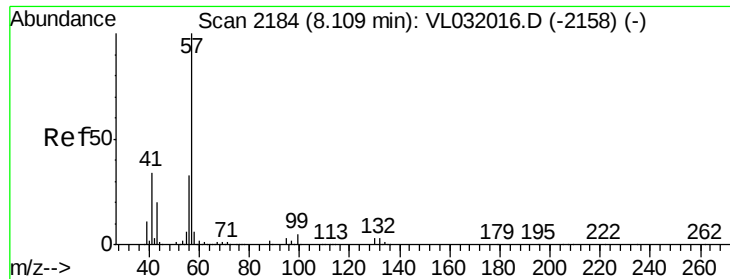
MMDadoda
6/4/2018 3:35:52 PM



#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

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





#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

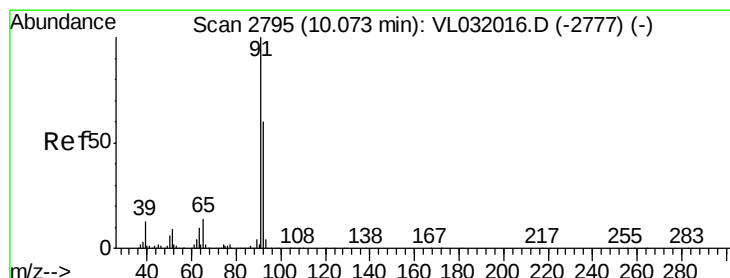
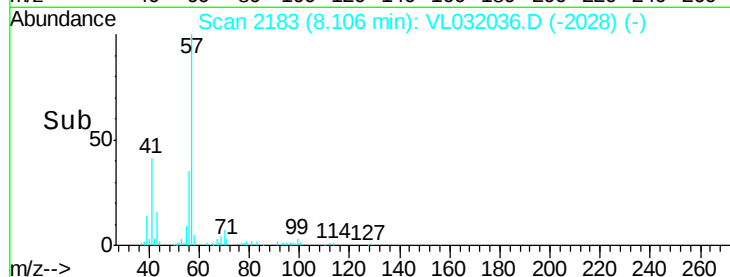
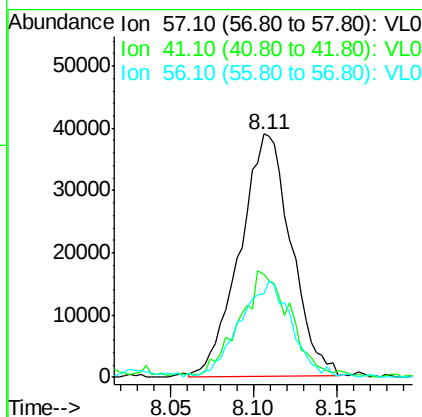
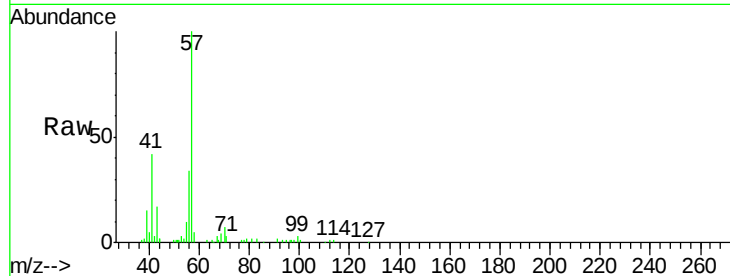
ClientSampleId :

LIHA-IA1-DUP-052518DL

Tot Ion:	57	Resp:	83540
Ion Ratio	Lower	Upper	
57	100		
41	44.8	26.6	40.0#
56	39.4	24.9	37.3#

Manual Integrations
APPROVED

MMDadoda
6/4/2018 3:35:52 PM



#53

Toluene

Concen: 0.72 ppbv

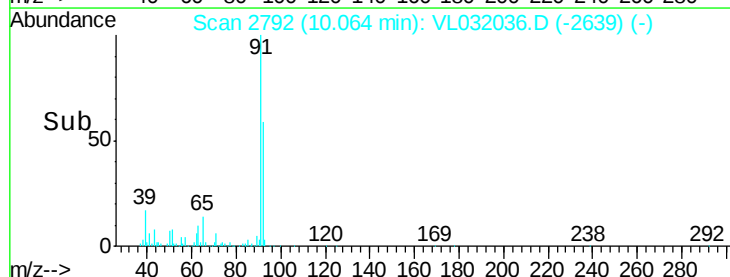
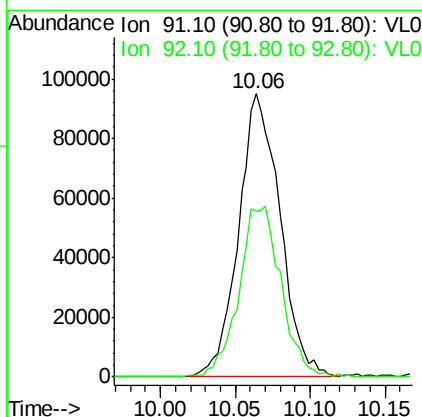
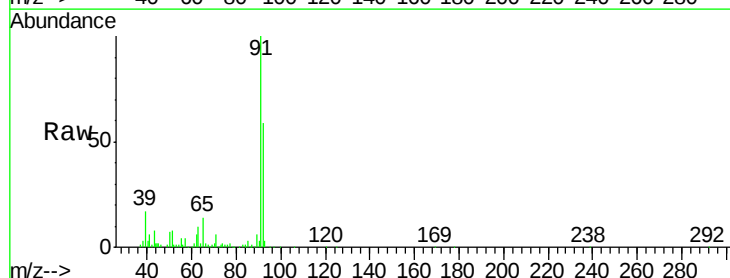
RT: 10.06 min Scan# 2792

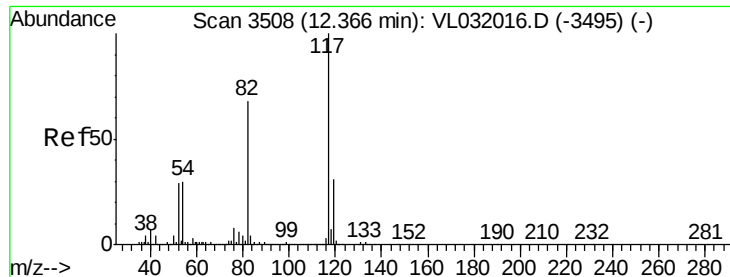
Delta R.T. -0.01 min

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





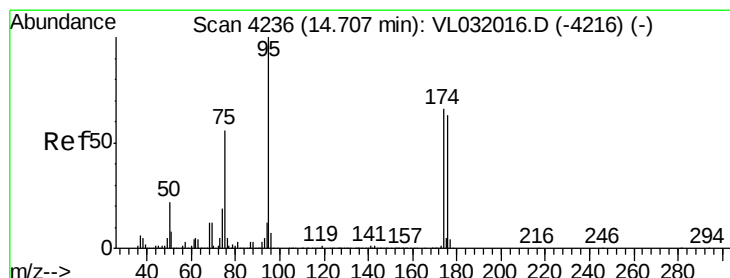
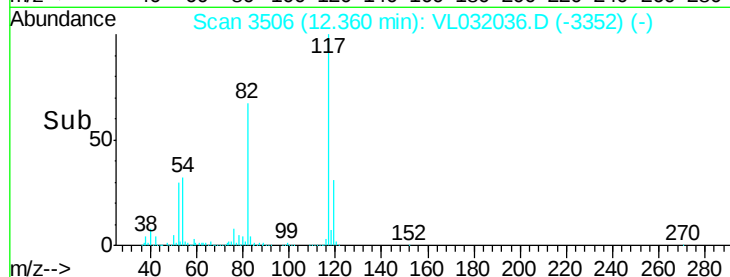
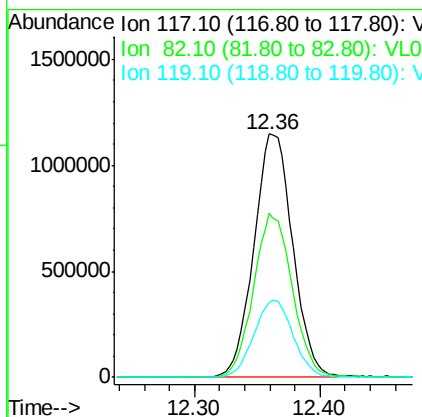
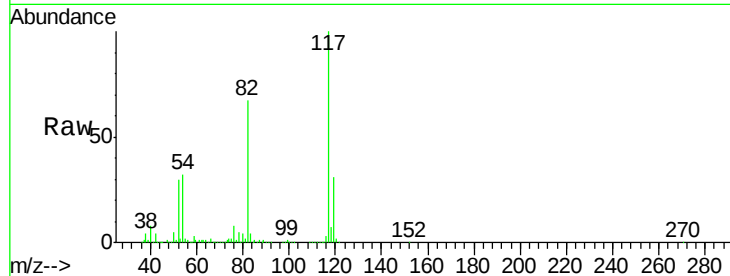
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.36 min Scan# 3506
Delta R.T. -0.01 min
Lab File: VL032036.D
Acq: 2 Jun 2018 00:53

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

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

Manual Integrations
APPROVED

MMDadoda
6/4/2018 3:35:52 PM



#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

