

Data File : VL032624.D
Acq On : 12 Oct 2018 4:10
Operator : SY/AP
Sample : VIBLK
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Quant Time: Oct 12 07:25:43 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 01 06:49:26 2018
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1240965	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.31	114	2799345	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3011162	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2171463	9.56	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.60%

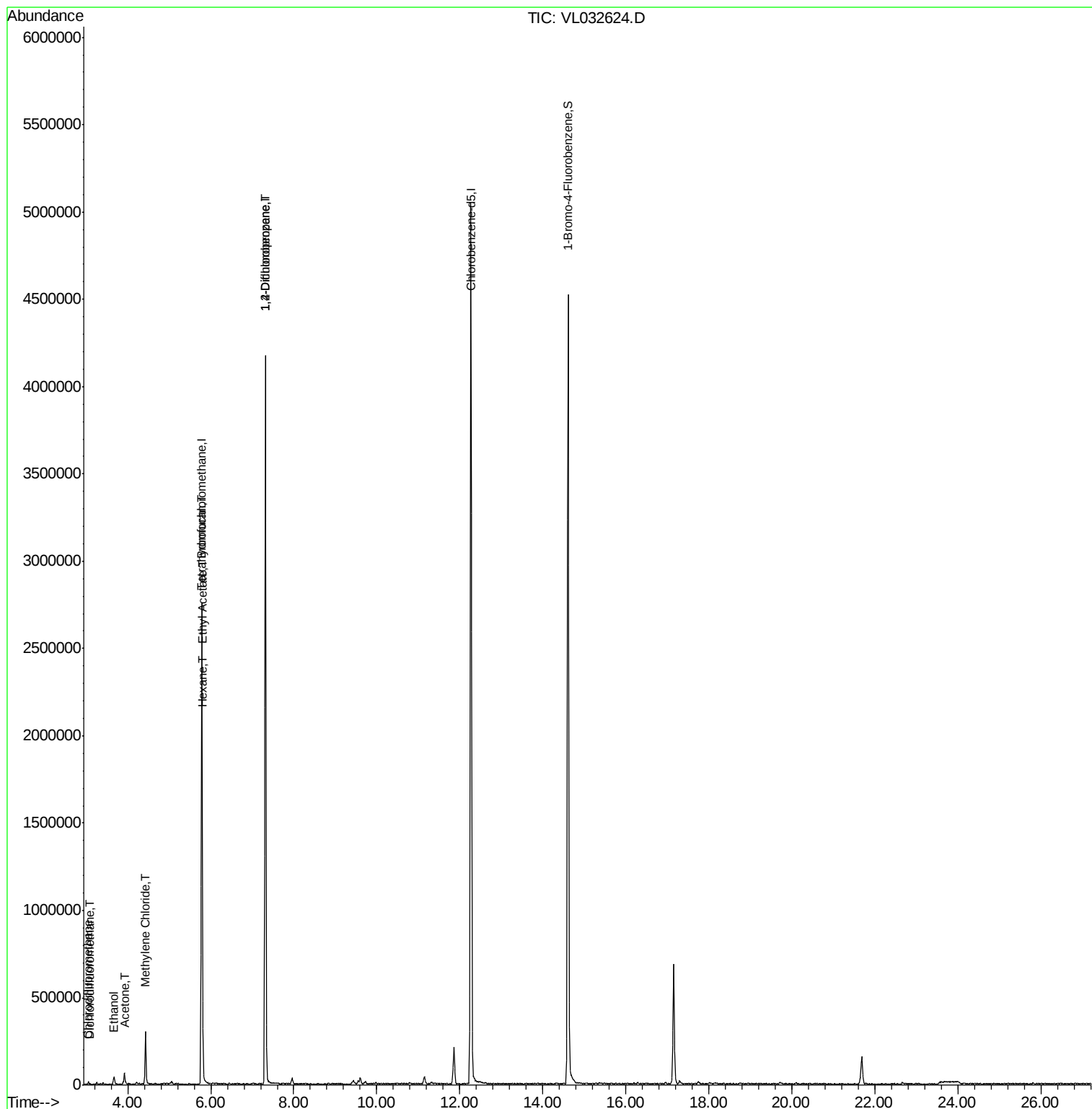
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	4008	0.035	ppbv	94
3) Chlorodifluoromethane	3.03	51	4164	0.040	ppbv	100
13) Ethanol	3.67	45	24170	1.796	ppbv #	42
15) Acetone	3.92	43	63049	0.579	ppbv	99
20) Methylene Chloride	4.43	84	102309	1.940	ppbv	95
25) Ethyl Acetate	5.80	43	68846	0.260	ppbv #	80
26) Hexane	5.80	57	102478	0.858	ppbv #	39
39) 1,2-Dichloropropane	7.31	63	751967	7.376	ppbv #	26
41) Tetrahydrofuran	5.80	42	45004	0.497	ppbv #	50

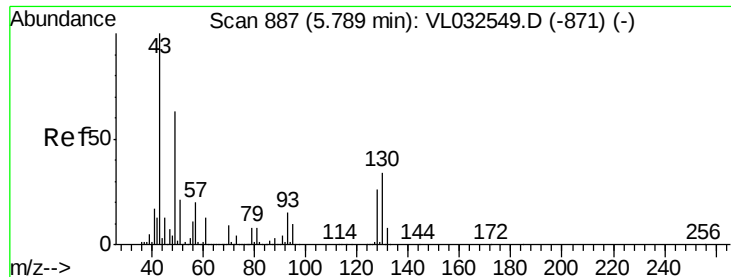
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.03 min

Lab File: VL032624.D

Acq: 12 Oct 2018 4:10

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

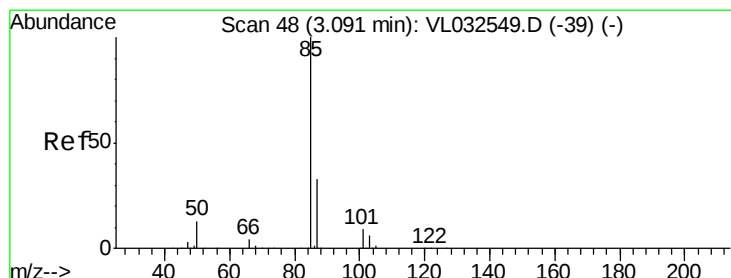
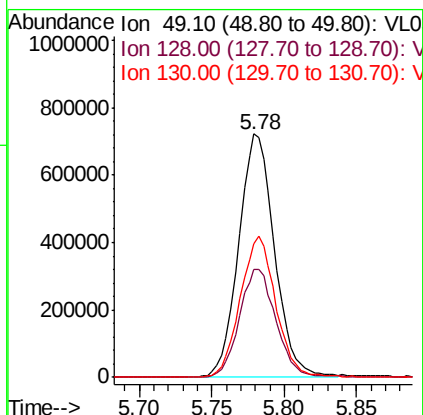
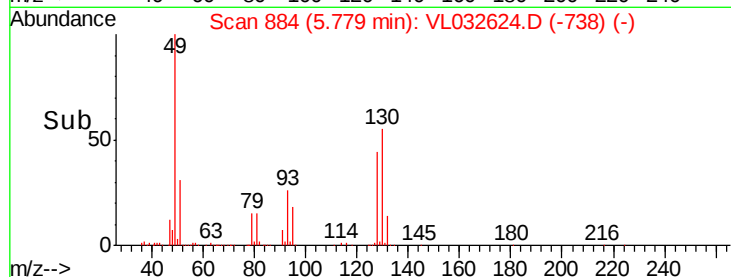
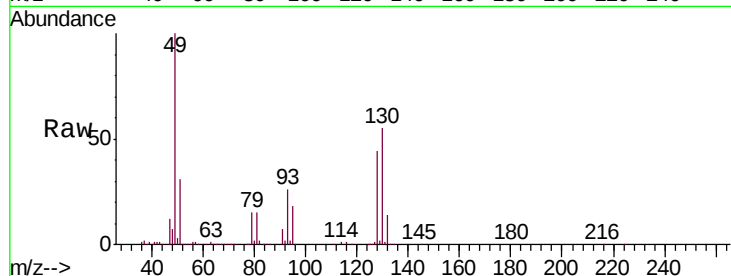
Tgt Ion: 49 Resp: 1240965

Ion Ratio Lower Upper

49 100

128 45.7 20.7 62.1

130 58.4 26.6 79.7



#2

Dichlorodifluoromethane

Concen: 0.035 ppbv

RT: 3.09 min Scan# 47

Delta R.T. -0.02 min

Lab File: VL032624.D

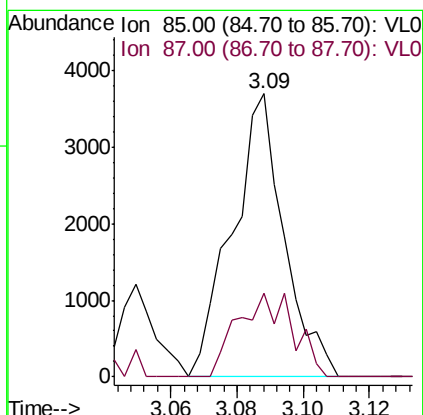
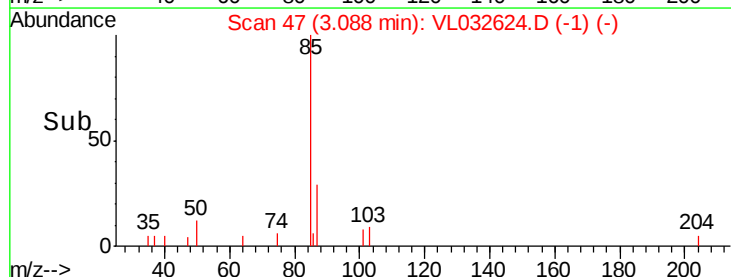
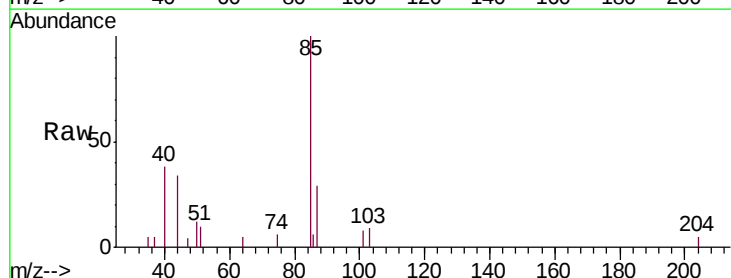
Acq: 12 Oct 2018 4:10

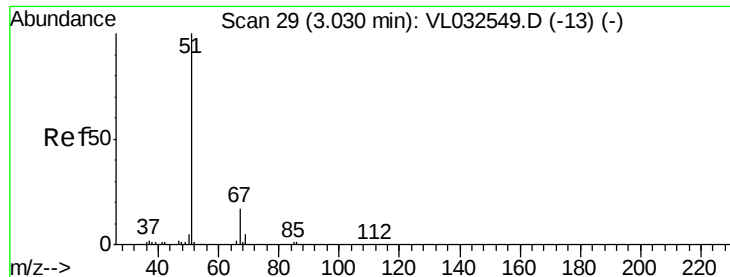
Tgt Ion: 85 Resp: 4008

Ion Ratio Lower Upper

85 100

87 29.4 26.2 39.4





#3

Chlorodifluoromethane

Concen: 0.040 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.02 min

Lab File: VL032624.D

Acq: 12 Oct 2018 4:10

Instrument :

MSVOA_L

ClientSampleId :

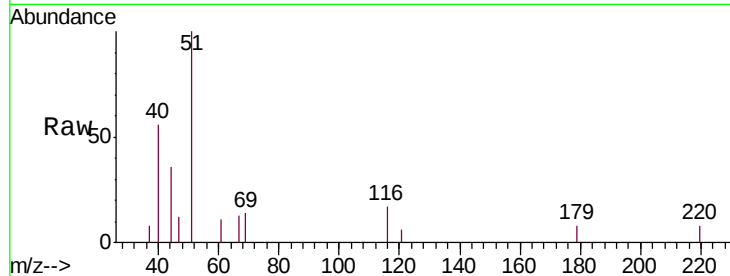
VIBLK

Tgt Ion: 51 Resp: 4164

Ion Ratio Lower Upper

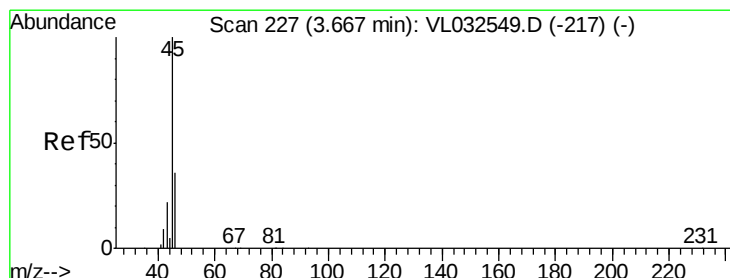
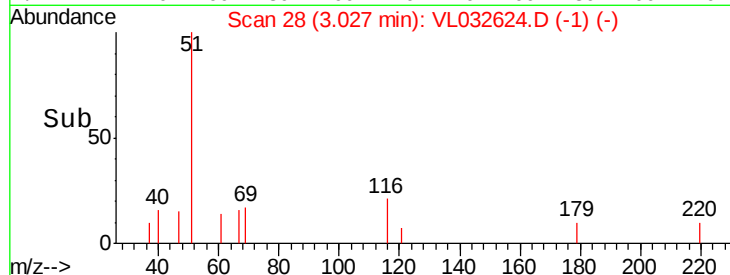
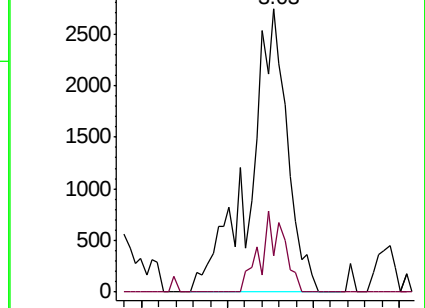
51 100

67 17.5 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#13

Ethanol

Concen: 1.796 ppbv

RT: 3.67 min Scan# 227

Delta R.T. -0.02 min

Lab File: VL032624.D

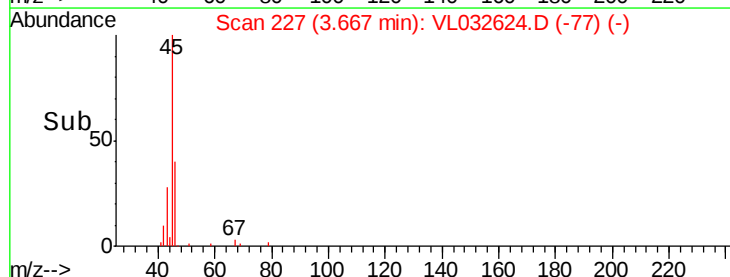
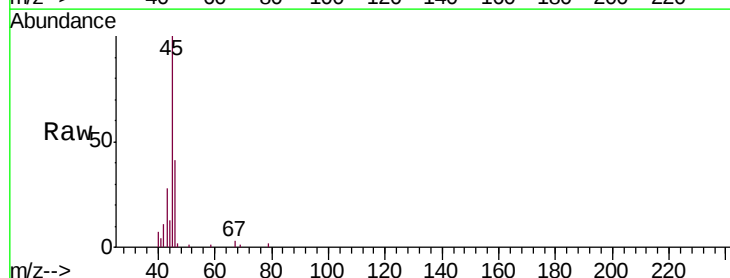
Acq: 12 Oct 2018 4:10

Tgt Ion: 45 Resp: 24170

Ion Ratio Lower Upper

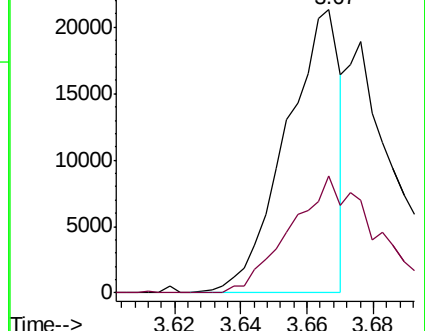
45 100

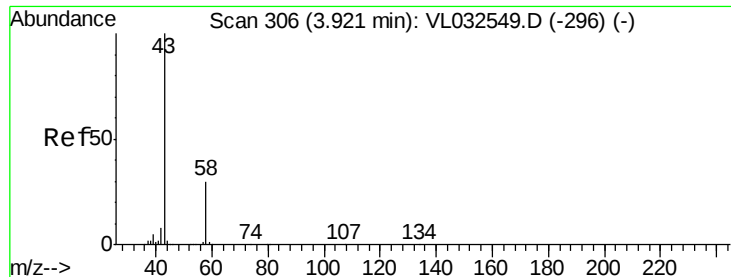
46 69.5 14.2 56.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.579 ppbv

RT: 3.92 min Scan# 306

Delta R.T. -0.02 min

Lab File: VL032624.D

Acq: 12 Oct 2018 4:10

Instrument :

MSVOA_L

ClientSampleId :

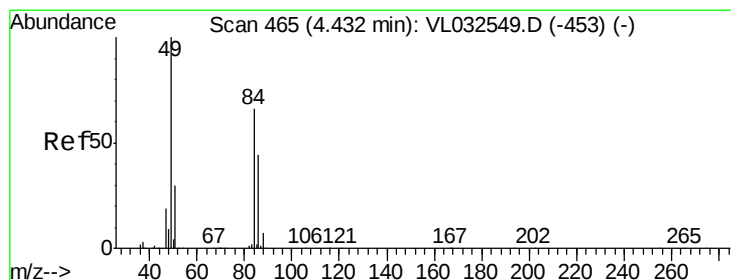
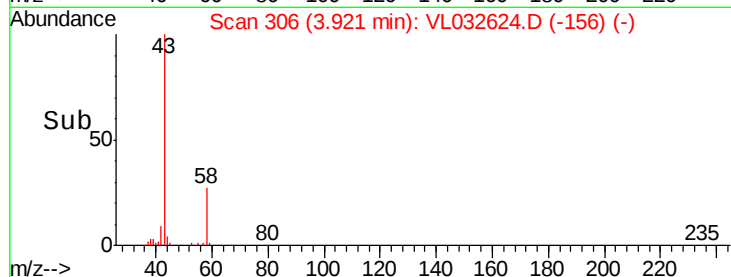
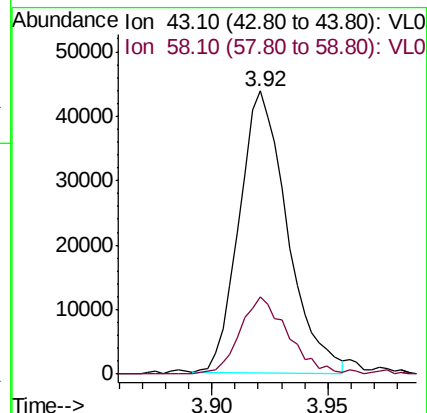
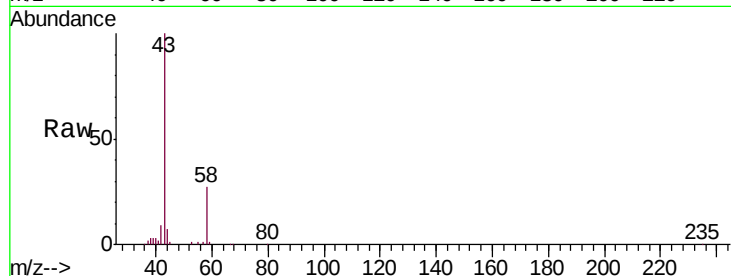
VIBLK

Tgt Ion: 43 Resp: 63049

Ion Ratio Lower Upper

43 100

58 27.9 22.6 33.8



#20

Methylene Chloride

Concen: 1.940 ppbv

RT: 4.43 min Scan# 463

Delta R.T. -0.02 min

Lab File: VL032624.D

Acq: 12 Oct 2018 4:10

Tgt Ion: 84 Resp: 102309

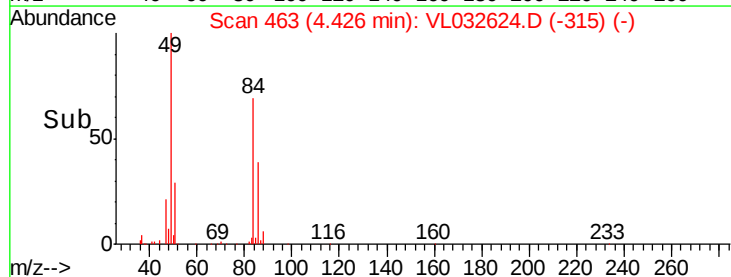
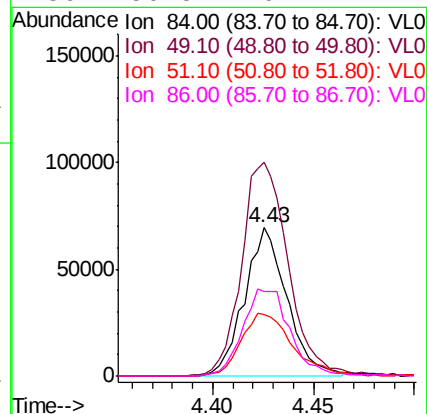
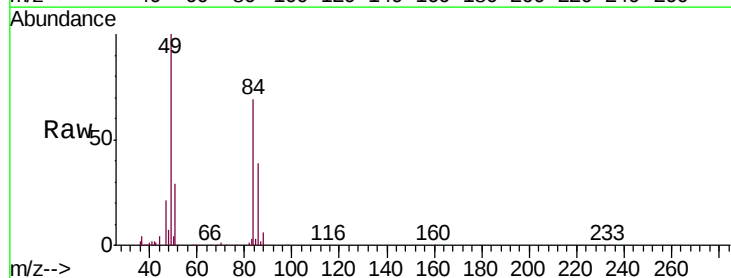
Ion Ratio Lower Upper

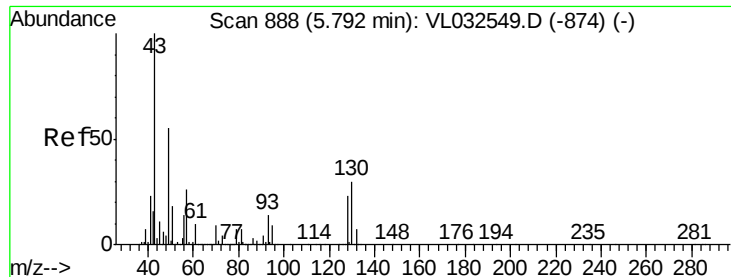
84 100

49 143.6 119.1 178.7

51 41.4 35.2 52.8

86 56.8 49.4 74.2

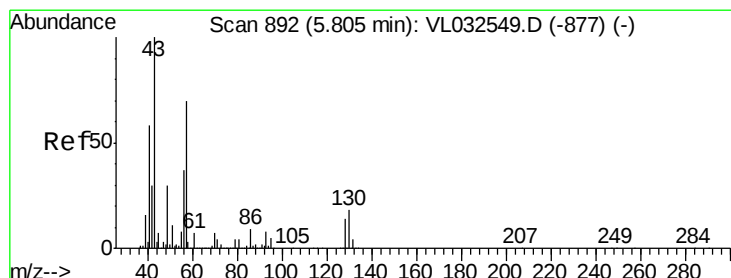
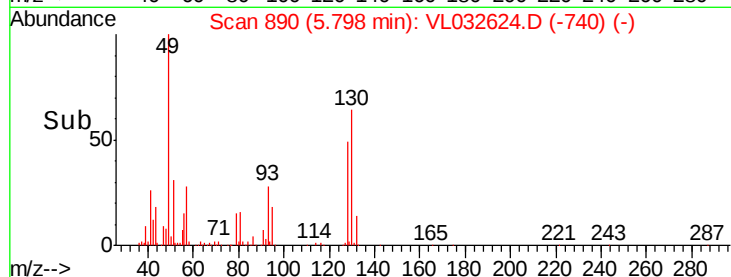
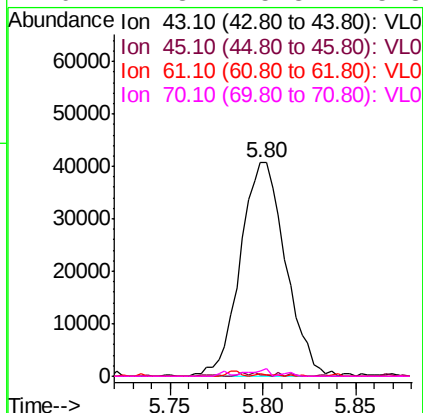
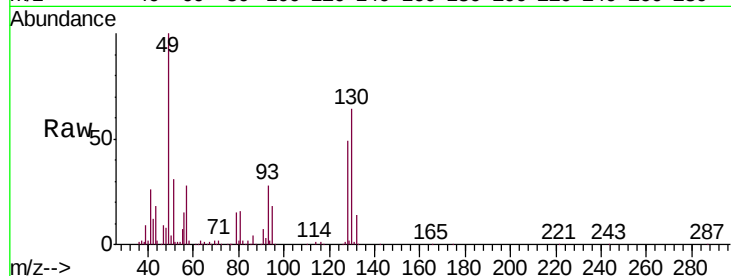




#25
Ethyl Acetate
Concen: 0.260 ppbv
RT: 5.80 min Scan# 890
Delta R.T. -0.02 min
Lab File: VL032624.D
Acq: 12 Oct 2018 4:10

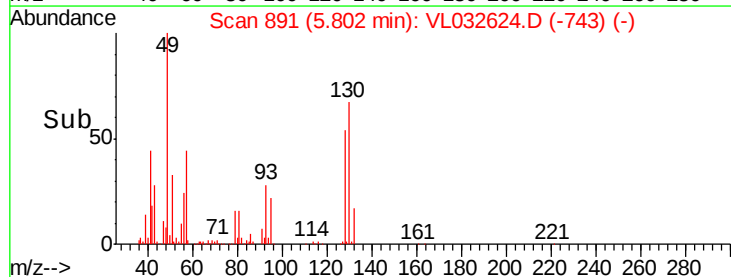
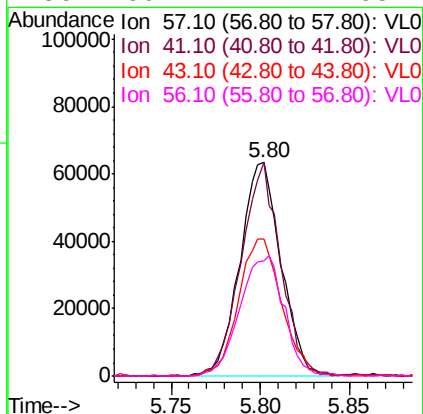
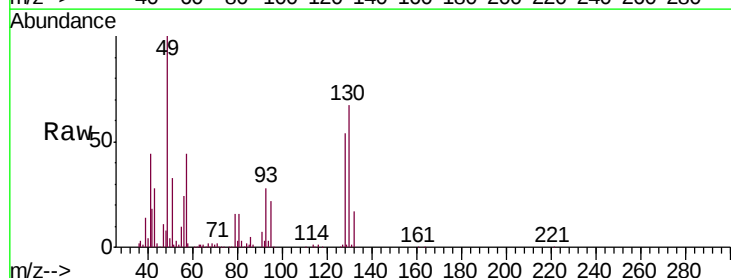
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

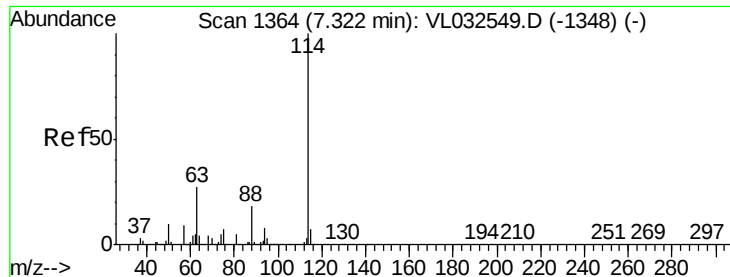
Tgt Ion:	43	Resp:	68846
Ion	Ratio	Lower	Upper
43	100		
45	1.4	8.0	12.0#
61	1.3	7.6	11.4#
70	2.3	5.8	8.8#



#26
Hexane
Concen: 0.858 ppbv
RT: 5.80 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL032624.D
Acq: 12 Oct 2018 4:10

Tgt Ion:	57	Resp:	102478
Ion	Ratio	Lower	Upper
57	100		
41	96.3	69.0	103.4
43	67.9	172.1	258.1#
56	60.4	42.2	63.2

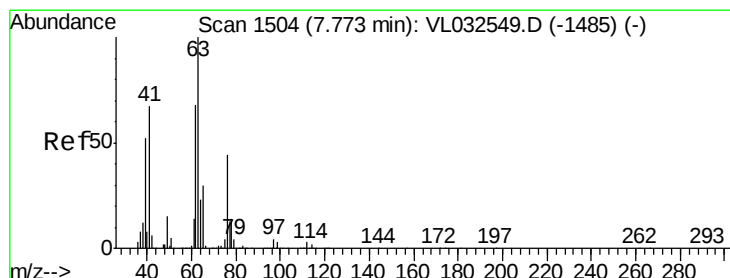
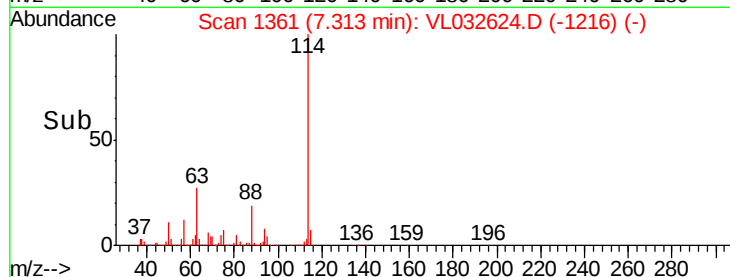
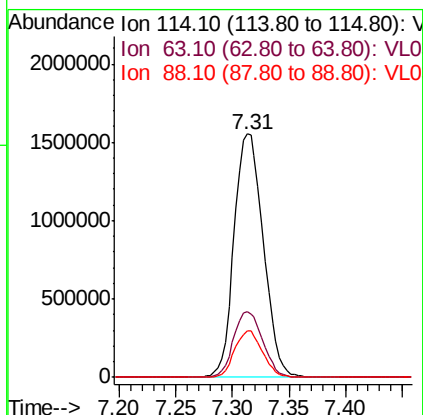
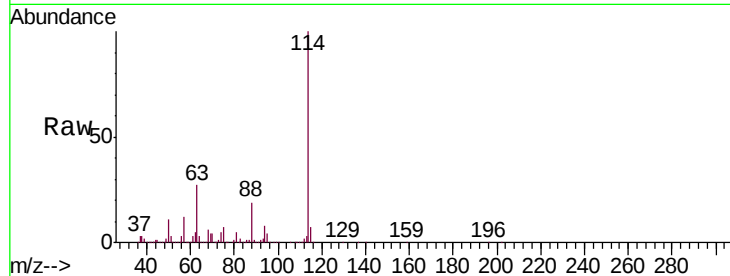




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1361
 Delta R.T. -0.03 min
 Lab File: VL032624.D
 Acq: 12 Oct 2018 4:10

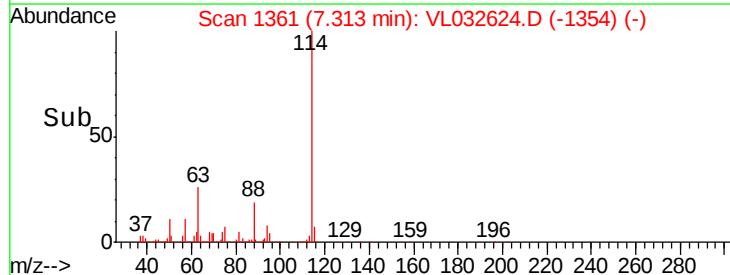
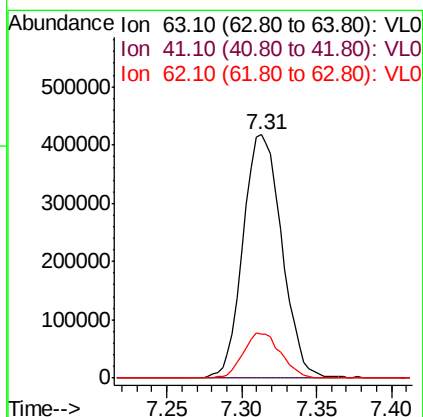
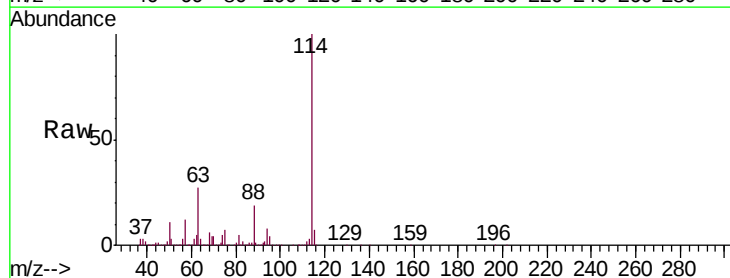
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

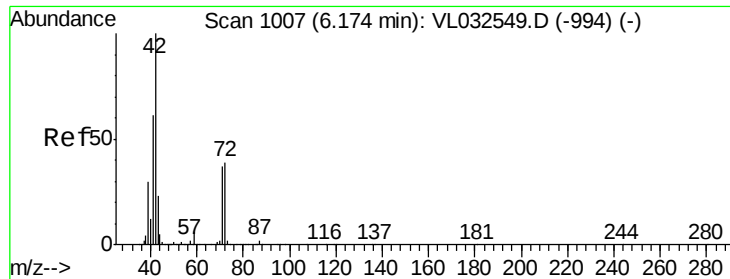
Tgt Ion: 114 Resp: 2799345
 Ion Ratio Lower Upper
 114 100
 63 27.1 22.2 33.4
 88 18.5 15.0 22.4



#39
 1,2-Dichloropropane
 Concen: 7.376 ppbv
 RT: 7.31 min Scan# 1361
 Delta R.T. -0.48 min
 Lab File: VL032624.D
 Acq: 12 Oct 2018 4:10

Tgt Ion: 63 Resp: 751967
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.4 83.0#
 62 18.2 55.4 83.0#





#41

Tetrahydrofuran

Concen: 0.497 ppbv

RT: 5.80 min Scan# 889

Delta R.T. -0.40 min

Lab File: VL032624.D

Acq: 12 Oct 2018 4:10

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

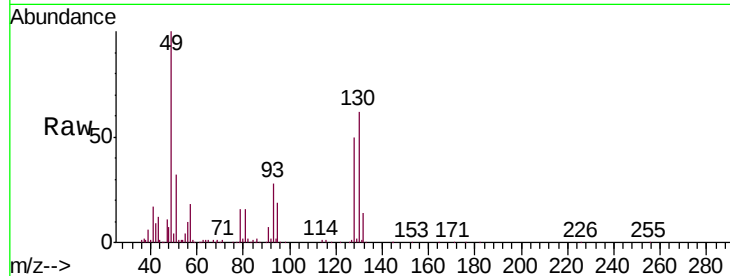
Tgt Ion: 42 Resp: 45004

Ion Ratio Lower Upper

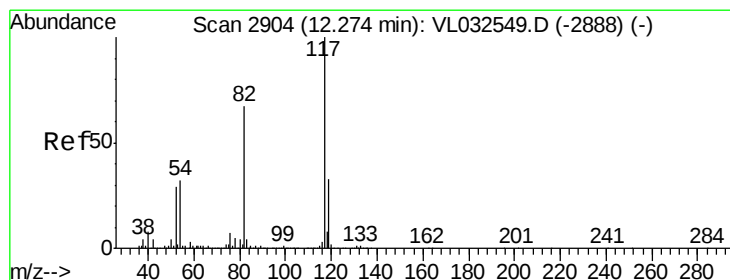
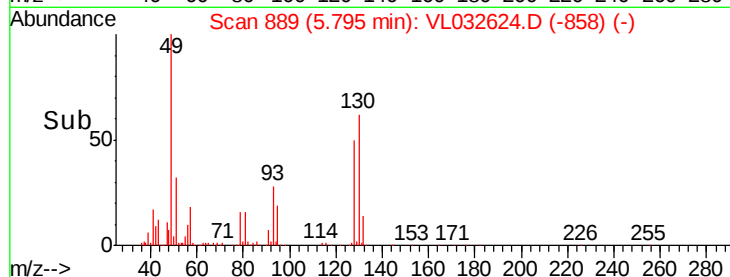
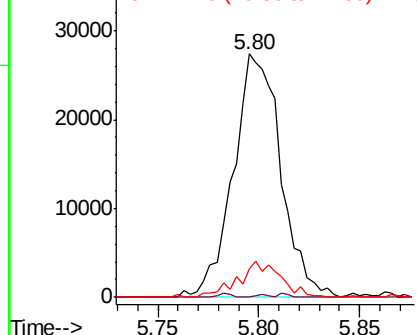
42 100

72 0.6 29.5 44.3#

71 13.4 28.3 42.5#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.03 min

Lab File: VL032624.D

Acq: 12 Oct 2018 4:10

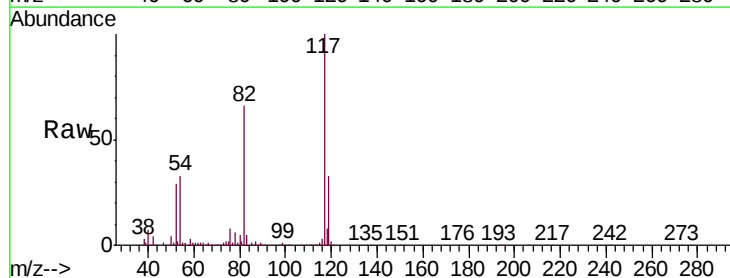
Tgt Ion: 117 Resp: 3011162

Ion Ratio Lower Upper

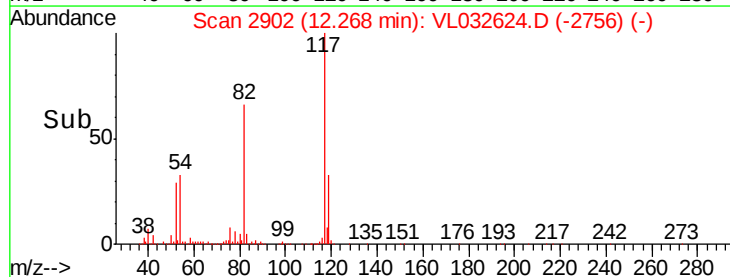
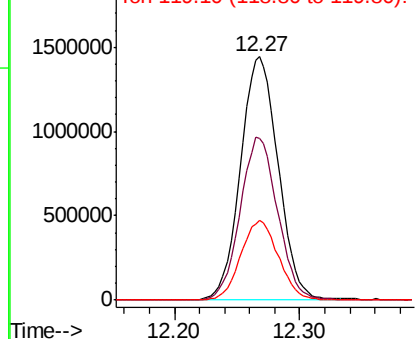
117 100

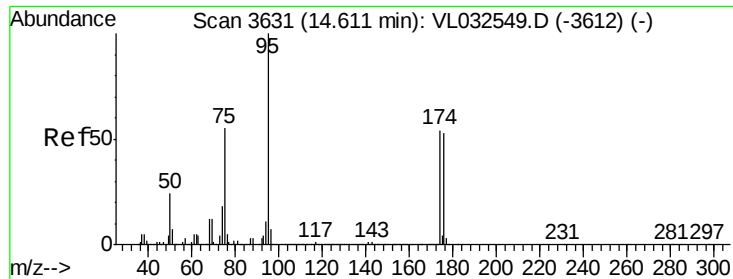
82 67.0 53.0 79.6

119 32.9 45.9 68.9#



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: 9.563 ppbv

RT: 14.61 min Scan# 3629

Delta R.T. -0.03 min

Lab File: VL032624.D

Acq: 12 Oct 2018 4:10

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tgt Ion: 95 Resp: 2171463

Ion Ratio Lower Upper

95 100

174 59.0 46.3 69.5

175 4.1 3.4 5.0

