

Data File : VL032767.D
Acq On : 14 Nov 2018 20:23
Operator : SY/AP
Sample : J5896-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Quant Time: Nov 15 04:58:46 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1513436	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3691909	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3306922	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 2580304 10.43 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.30%

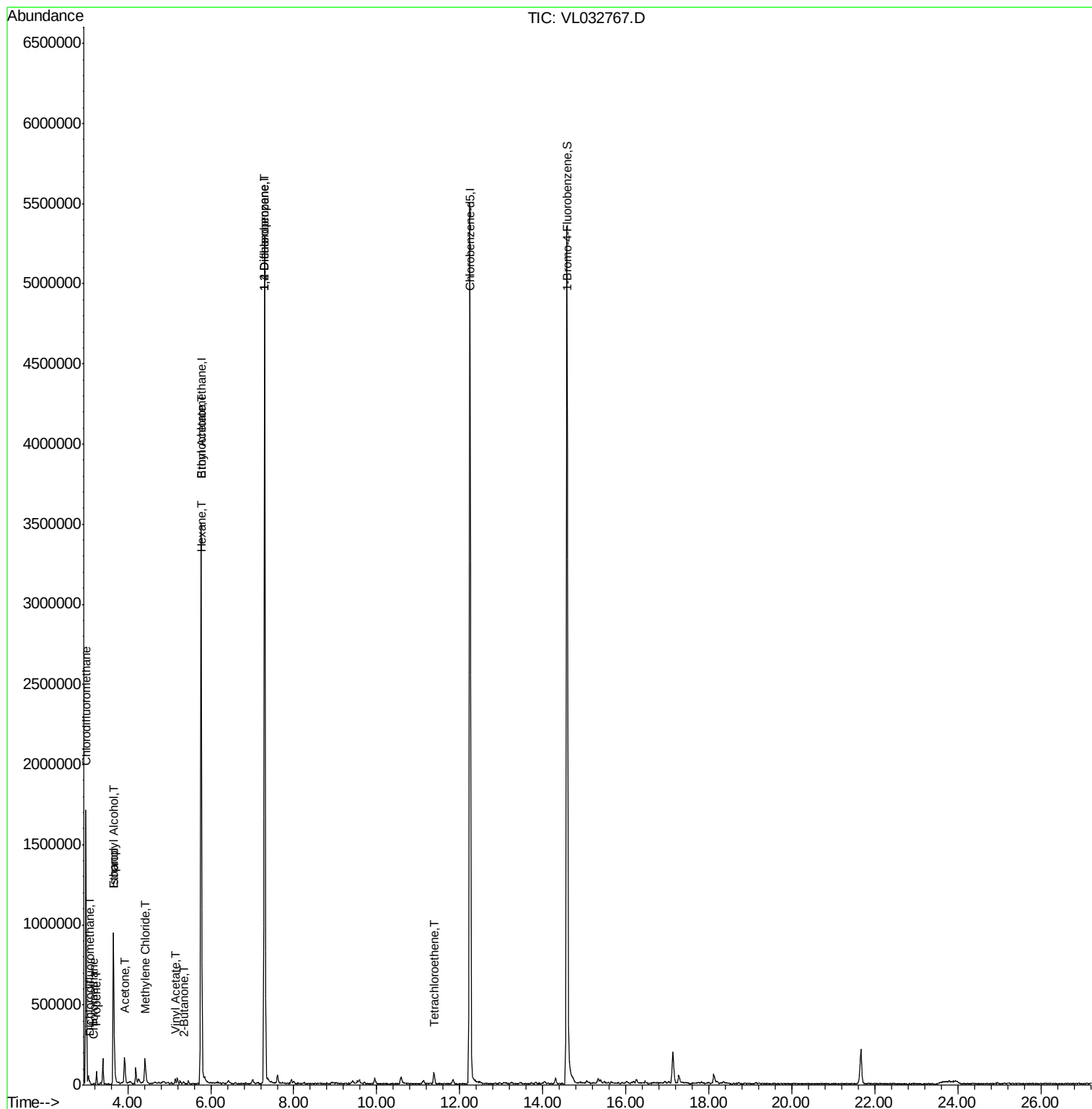
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	12200	0.056	ppbv	92
3) Chlorodifluoromethane	2.99	51	973042	8.110	ppbv #	57
4) Chloromethane	3.18	50	3251	0.049	ppbv #	55
9) Propene	3.25	41	18857	0.393	ppbv	87
13) Ethanol	3.65	45	1005508	63.934	ppbv	99
15) Acetone	3.92	43	153634	1.112	ppbv	98
19) Isopropyl Alcohol	3.65	45	1005508	10.921	ppbv #	95
20) Methylene Chloride	4.42	84	33175	0.464	ppbv	95
23) Vinyl Acetate	5.15	43	7827	0.031	ppbv #	1
25) Ethyl Acetate	5.78	43	136378	0.423	ppbv	97
26) Hexane	5.78	57	21401	0.149	ppbv #	1
34) 2-Butanone	5.34	43	13470	0.070	ppbv	94
39) 1,2-Dichloropropane	7.30	63	944601	8.433	ppbv #	23
52) Tetrachloroethene	11.39	164	3470	0.034	ppbv	84

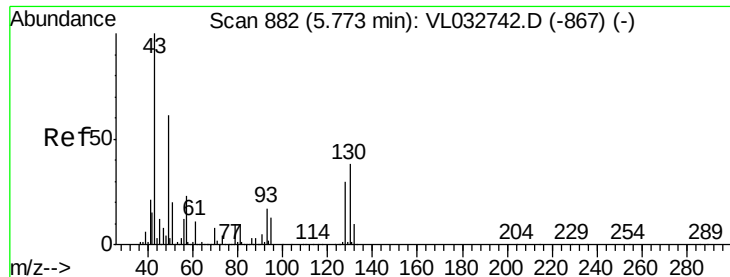
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

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MSVOA_L

ClientSampleId :

IA2DL

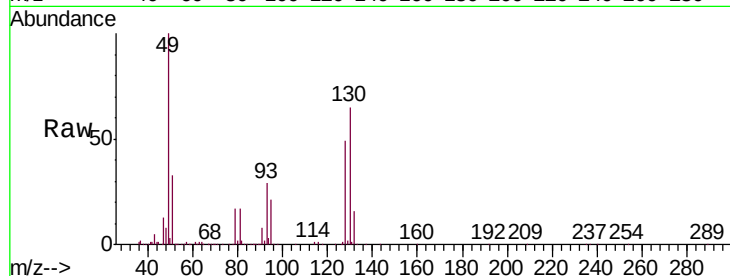
Tgt Ion: 49 Resp: 1513436

Ion Ratio Lower Upper

49 100

128 50.4 24.9 74.6

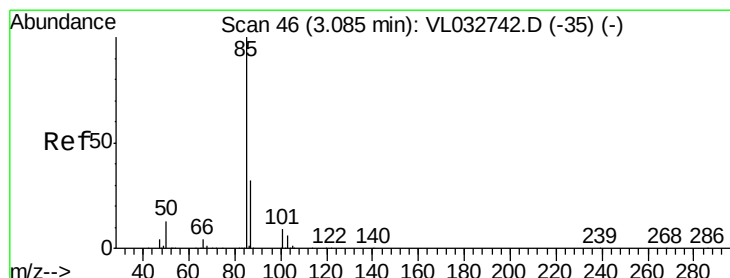
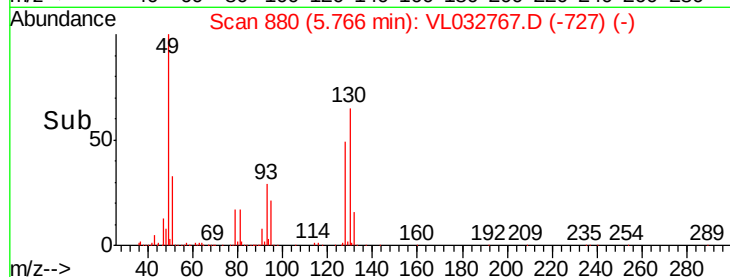
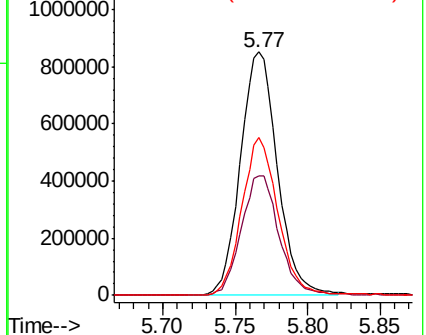
130 64.0 31.4 94.2



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: 0.056 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032767.D

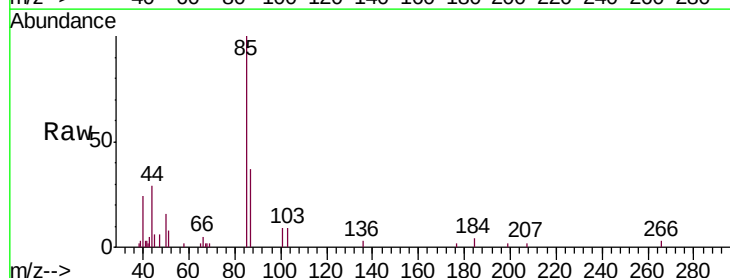
Acq: 14 Nov 2018 20:23

Tgt Ion: 85 Resp: 12200

Ion Ratio Lower Upper

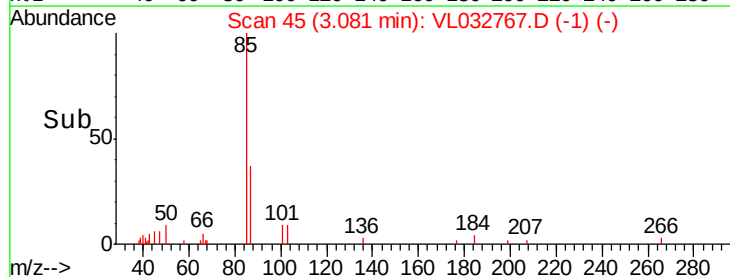
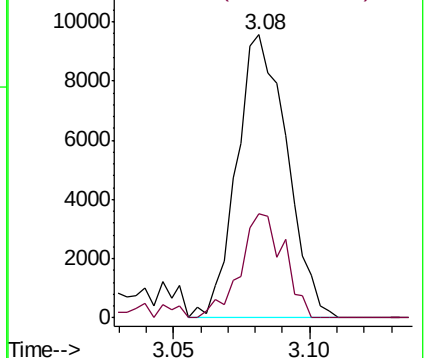
85 100

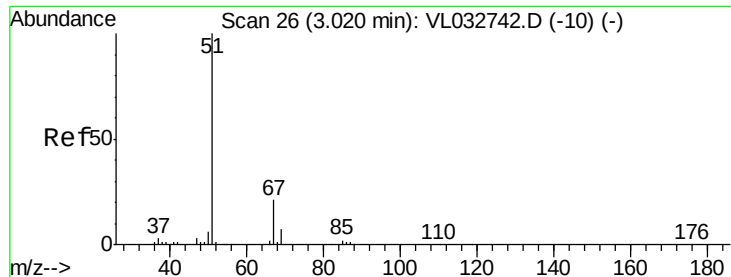
87 36.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.110 ppbv

RT: 2.99 min Scan# 18

Delta R.T. -0.03 min

Lab File: VL032767.D

Acq: 14 Nov 2018 20:23

Instrument :

MSVOA_L

ClientSampleId :

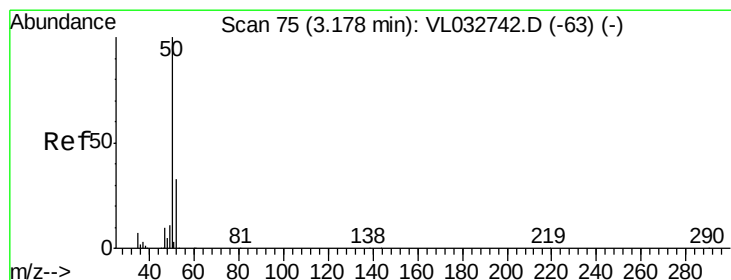
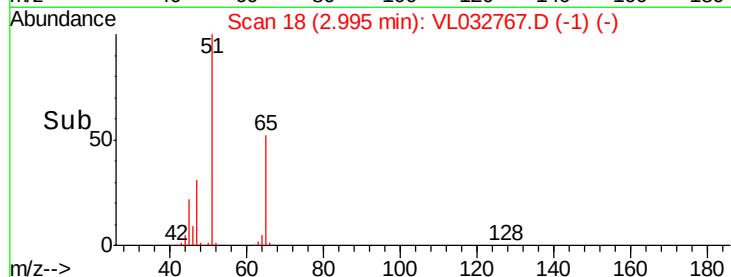
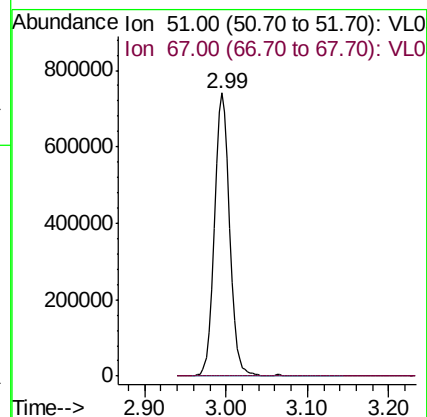
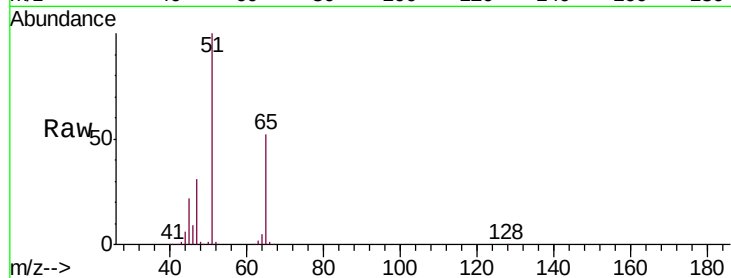
IA2DL

Tgt Ion: 51 Resp: 973042

Ion Ratio Lower Upper

51 100

67 0.2 16.1 24.1#



#4

Chloromethane

Concen: 0.049 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032767.D

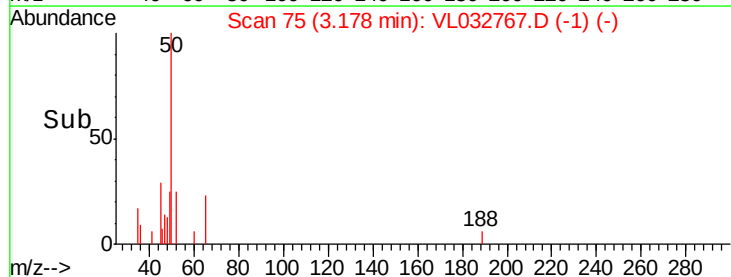
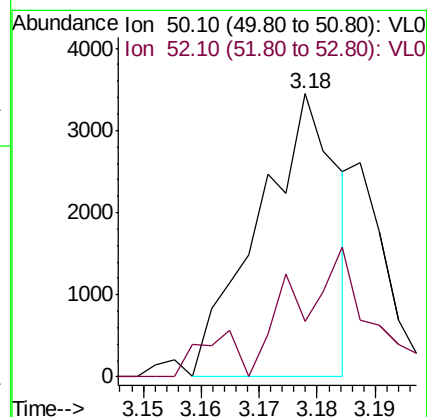
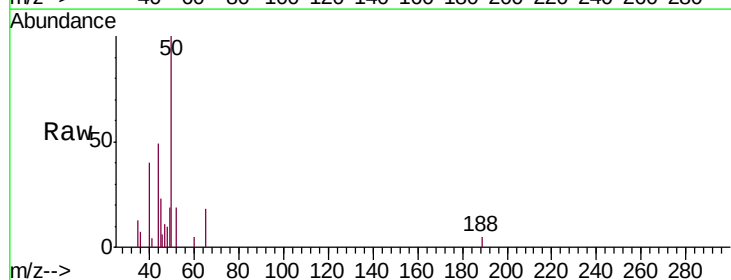
Acq: 14 Nov 2018 20:23

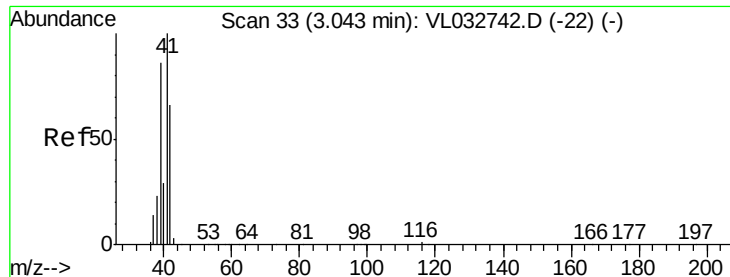
Tgt Ion: 50 Resp: 3251

Ion Ratio Lower Upper

50 100

52 8.0 26.6 40.0#





#9

Propene

Concen: 0.393 ppbv

RT: 3.25 min Scan# 96

Delta R.T. 0.20 min

Lab File: VL032767.D

Acq: 14 Nov 2018 20:23

Instrument :

MSVOA_L

ClientSampleId :

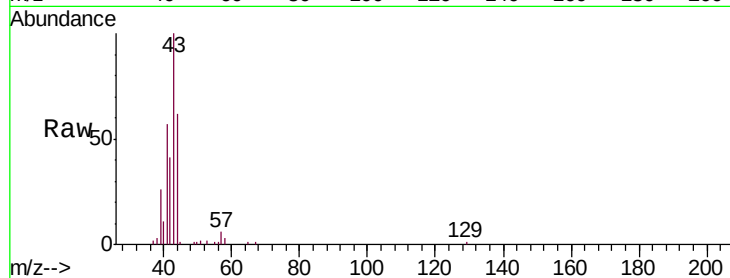
IA2DL

Tgt Ion: 41 Resp: 18857

Ion Ratio Lower Upper

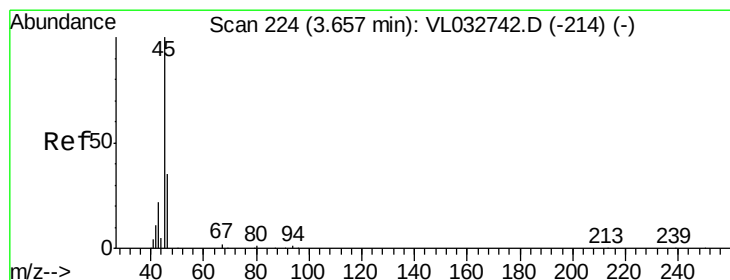
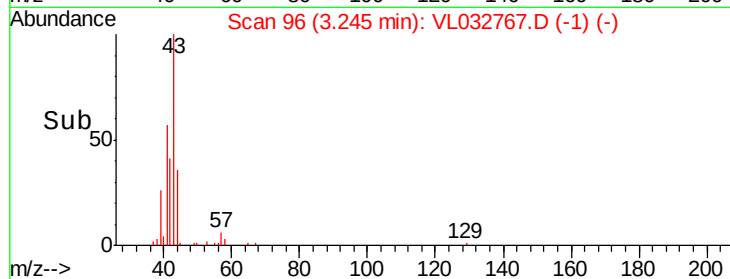
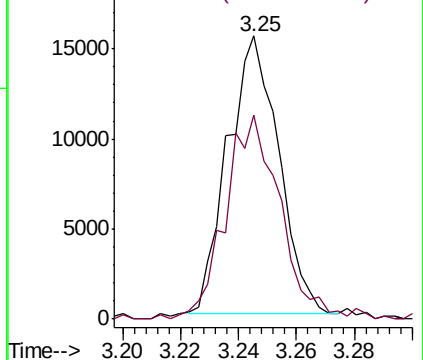
41 100

42 79.2 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 63.934 ppbv

RT: 3.65 min Scan# 223

Delta R.T. -0.00 min

Lab File: VL032767.D

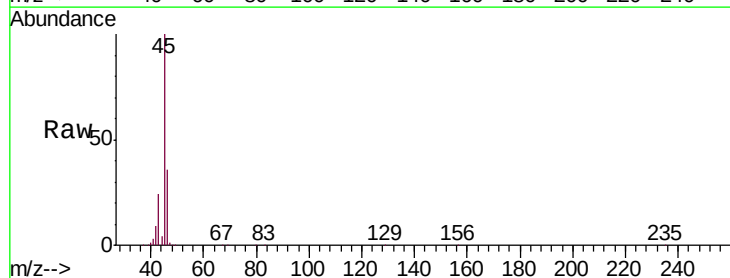
Acq: 14 Nov 2018 20:23

Tgt Ion: 45 Resp: 1005508

Ion Ratio Lower Upper

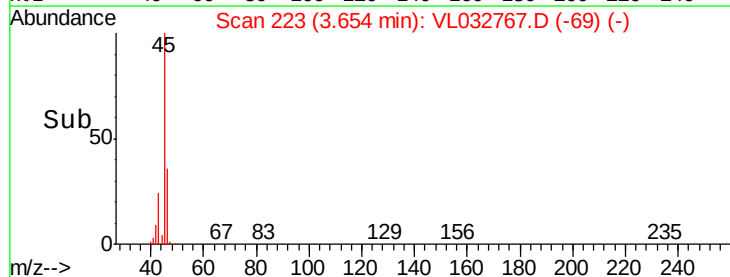
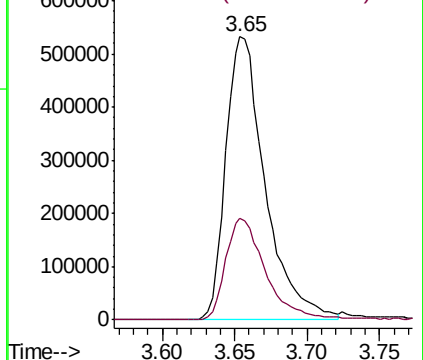
45 100

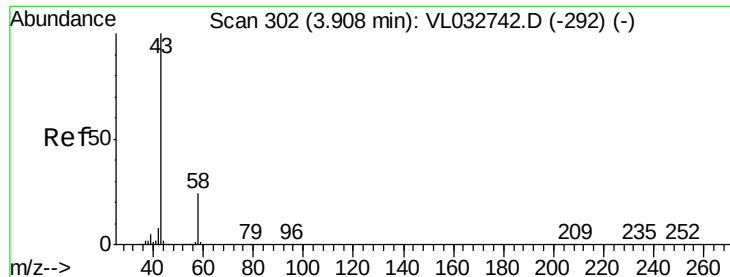
46 36.9 14.5 57.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.112 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL032767.D

Acq: 14 Nov 2018 20:23

Instrument :

MSVOA_L

ClientSampleId :

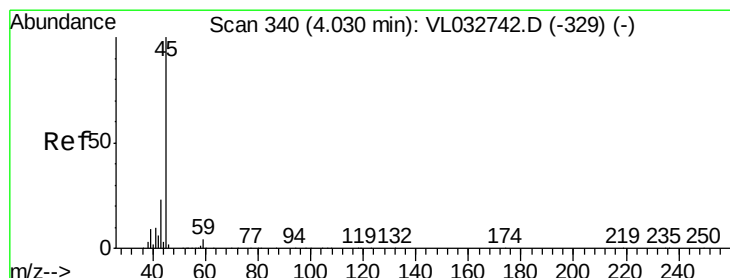
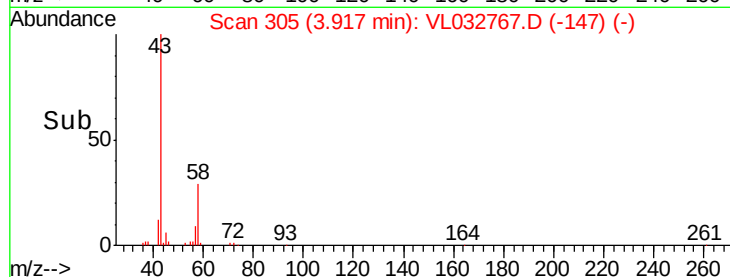
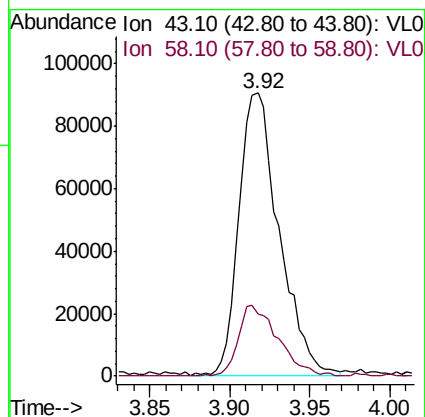
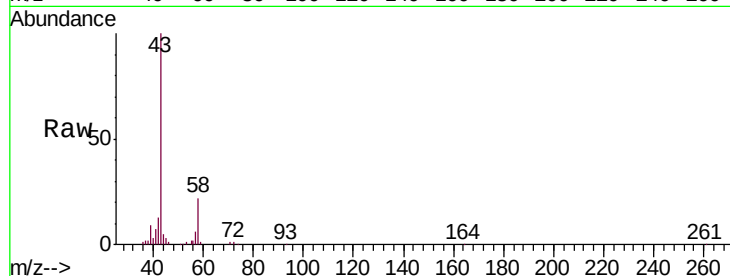
IA2DL

Tgt Ion: 43 Resp: 153634

Ion Ratio Lower Upper

43 100

58 25.2 21.1 31.7



#19

Isopropyl Alcohol

Concen: 10.921 ppbv

RT: 3.65 min Scan# 223

Delta R.T. -0.38 min

Lab File: VL032767.D

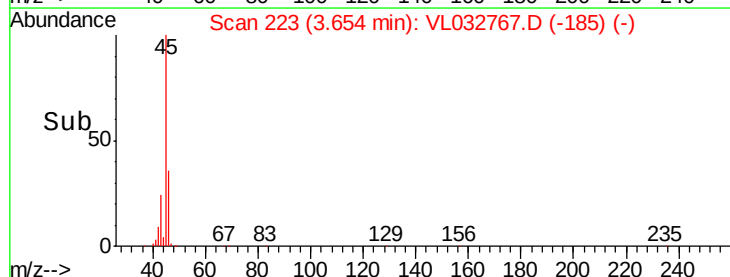
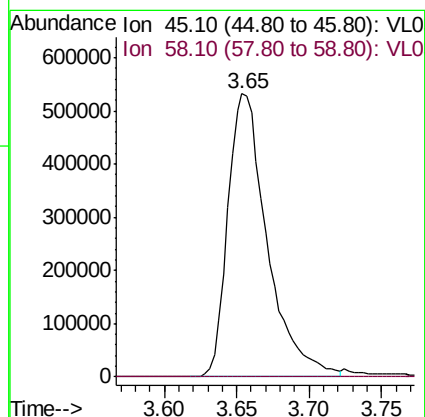
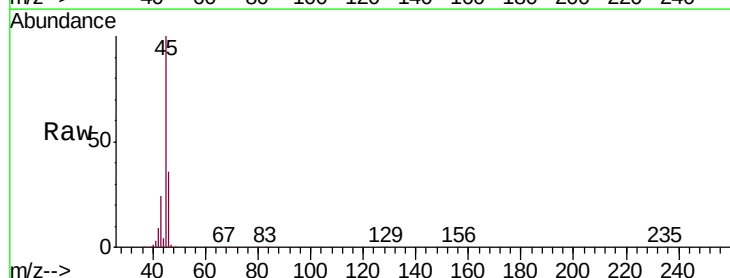
Acq: 14 Nov 2018 20:23

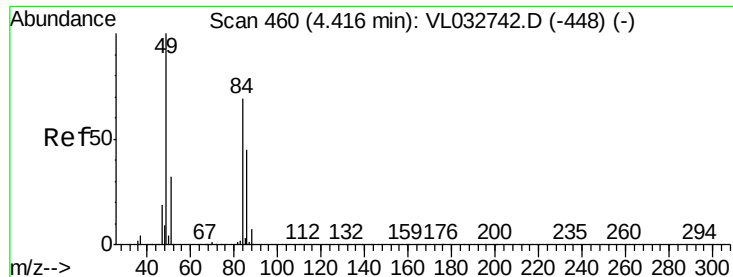
Tgt Ion: 45 Resp: 1005508

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#

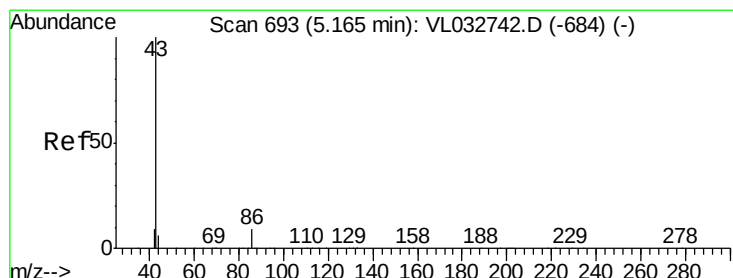
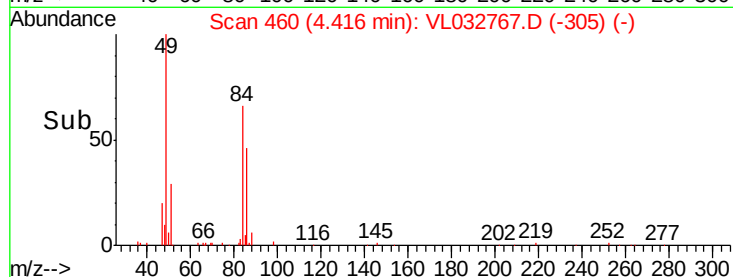
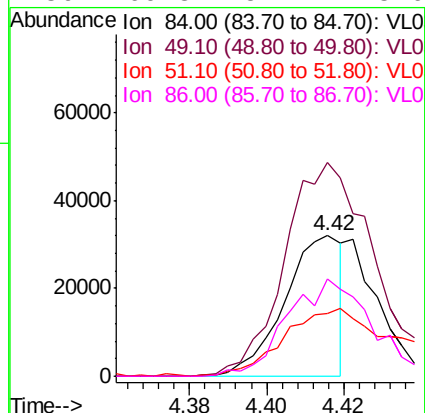
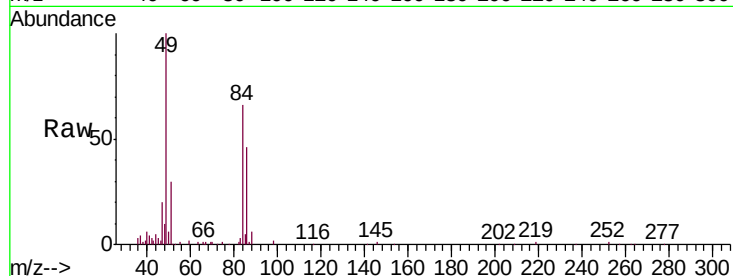




#20
Methylene Chloride
Concen: 0.464 ppbv
RT: 4.42 min Scan# 460
Delta R.T. -0.00 min
Lab File: VL032767.D
Acq: 14 Nov 2018 20:23

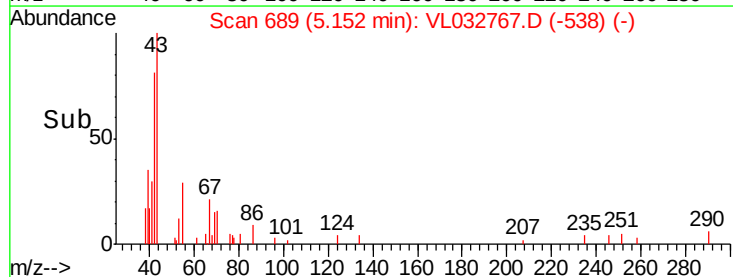
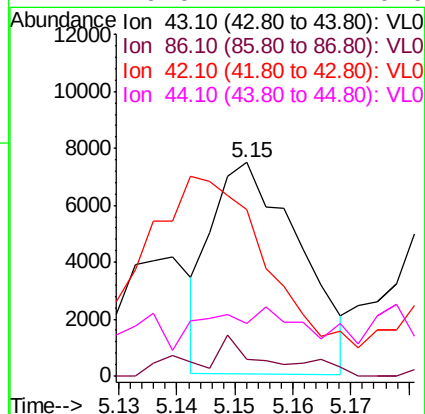
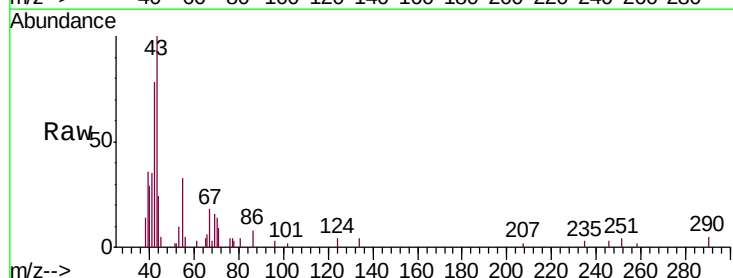
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

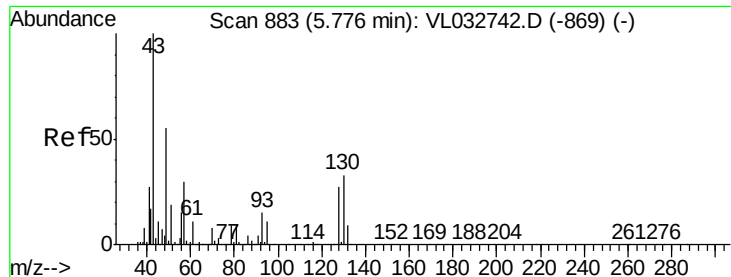
Tgt Ion:	84	Resp:	33175
Ion	Ratio	Lower	Upper
84	100		
49	152.2	115.8	173.6
51	45.0	36.9	55.3
86	69.3	52.4	78.6



#23
Vinyl Acetate
Concen: 0.031 ppbv
RT: 5.15 min Scan# 689
Delta R.T. -0.01 min
Lab File: VL032767.D
Acq: 14 Nov 2018 20:23

Tgt Ion:	43	Resp:	7827
Ion	Ratio	Lower	Upper
43	100		
86	6.6	6.2	9.4
42	105.9	7.8	11.6#
44	0.0	4.4	6.6#

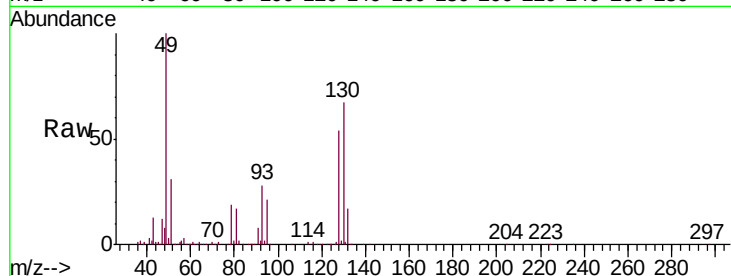




#25
Ethyl Acetate
Concen: 0.423 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL032767.D
Acq: 14 Nov 2018 20:23

Instrument :
MSVOA_L
ClientSampleID :
IA2DL

Tgt Ion:	43	Resp:	136378
Ion	Ratio	Lower	Upper
43	100		
45	11.0	7.9	11.9
61	10.9	7.8	11.6
70	8.0	5.8	8.6



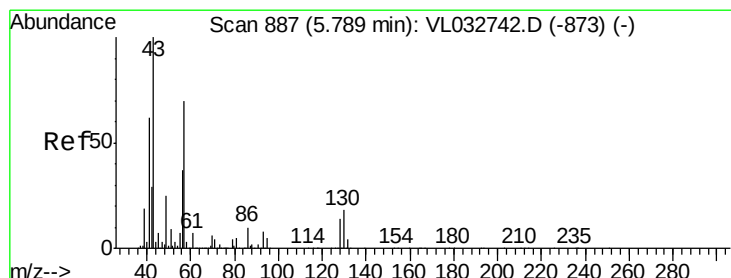
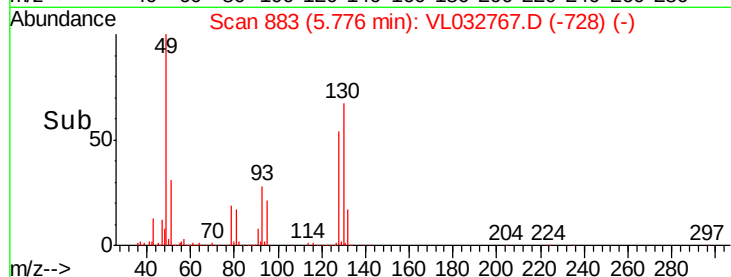
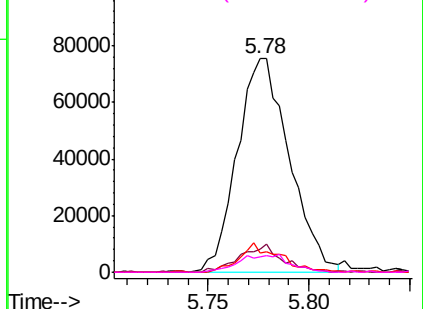
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

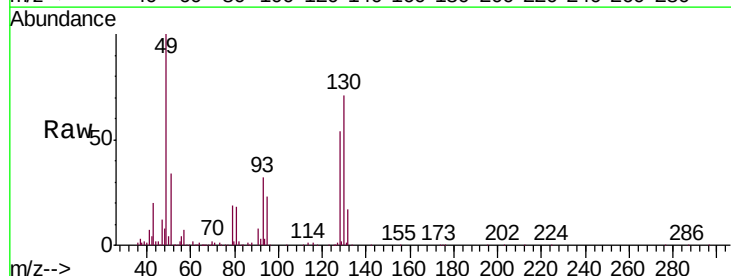
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.149 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.01 min
Lab File: VL032767.D
Acq: 14 Nov 2018 20:23

Tgt Ion:	57	Resp:	21401
Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.3	105.5#
43	661.4	174.0	261.0#
56	105.4	42.3	63.5#



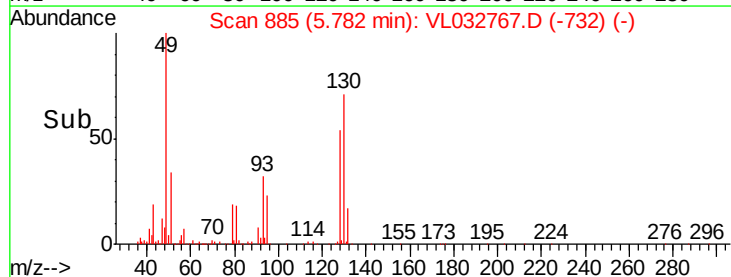
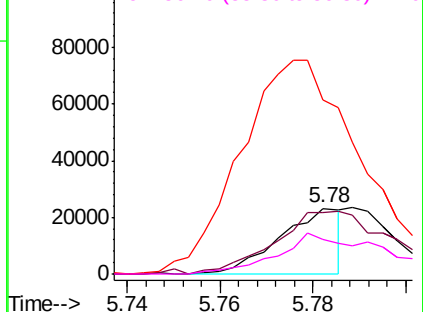
Abundance

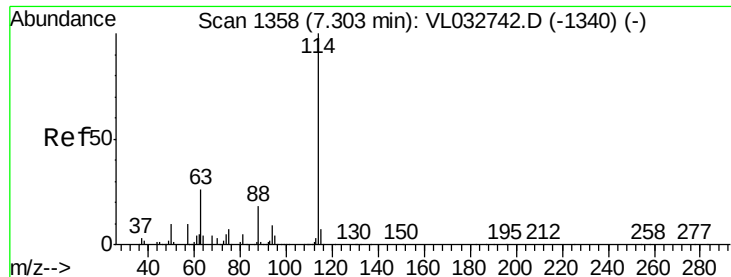
Ion 57.10 (56.80 to 57.80): VL0

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

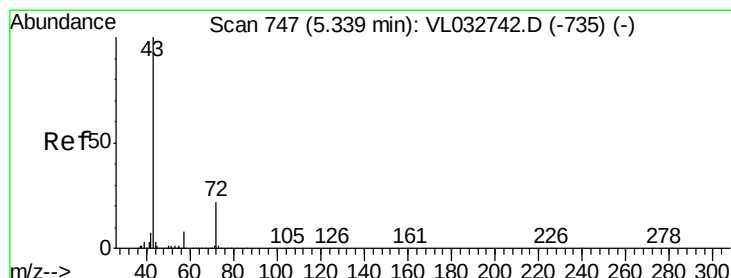
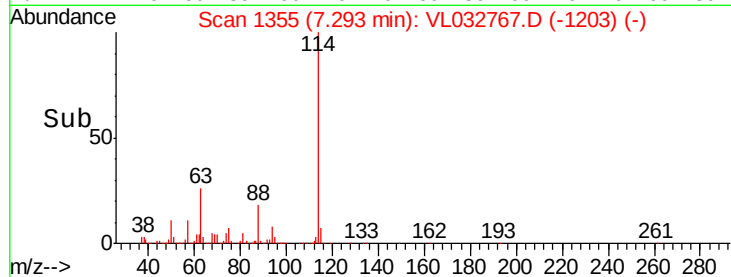
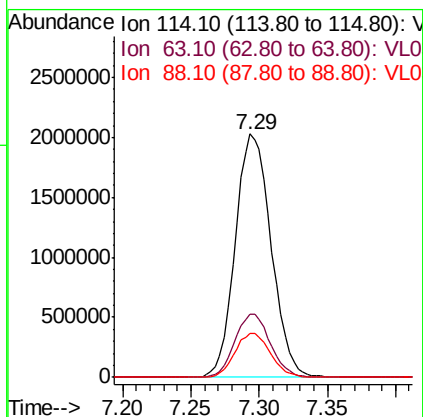
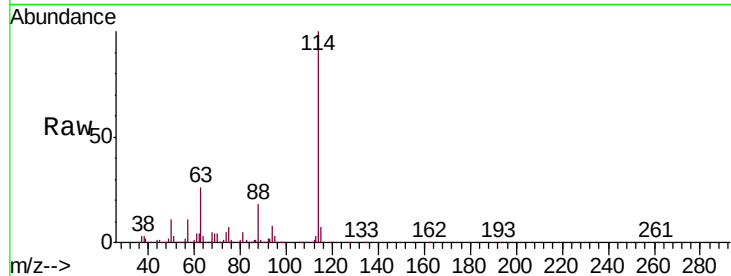




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032767.D
 Acq: 14 Nov 2018 20:23

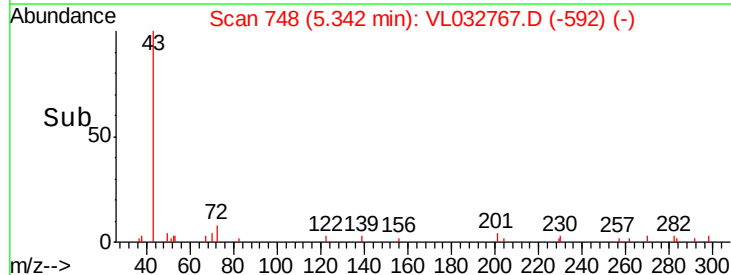
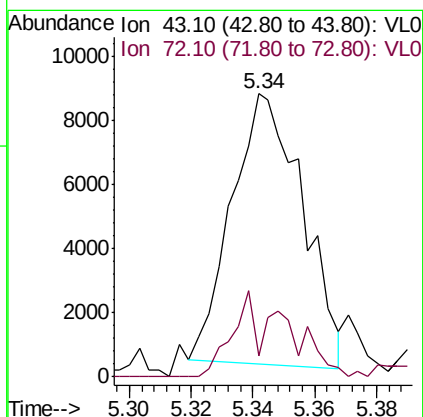
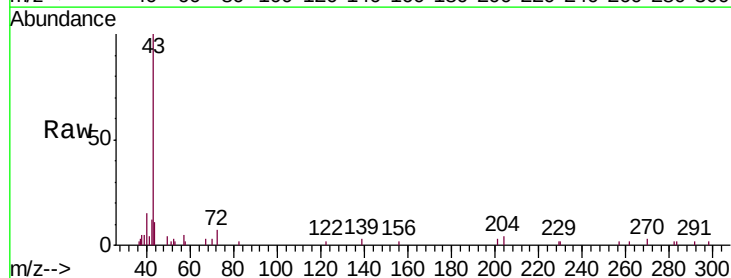
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

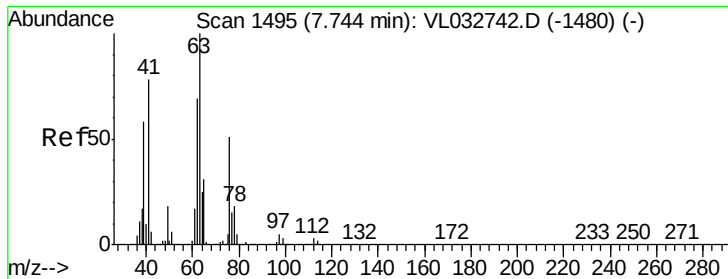
Tgt Ion:114 Resp: 3691909
 Ion Ratio Lower Upper
 114 100
 63 25.9 20.9 31.3
 88 18.1 14.4 21.6



#34
 2-Butanone
 Concen: 0.070 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.00 min
 Lab File: VL032767.D
 Acq: 14 Nov 2018 20:23

Tgt Ion: 43 Resp: 13470
 Ion Ratio Lower Upper
 43 100
 72 25.8 18.4 27.6





#39

1,2-Dichloropropane

Concen: 8.433 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032767.D

Acq: 14 Nov 2018 20:23

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

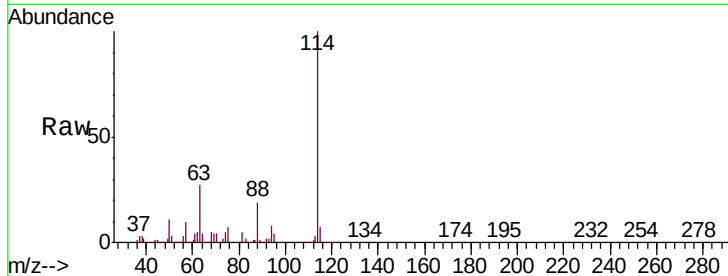
Tgt Ion: 63 Resp: 944601

Ion Ratio Lower Upper

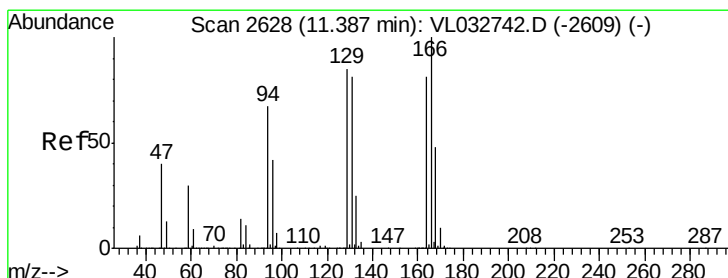
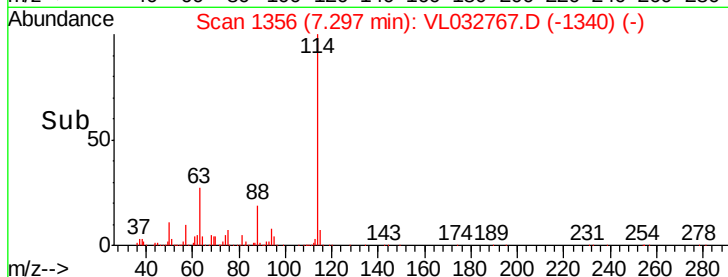
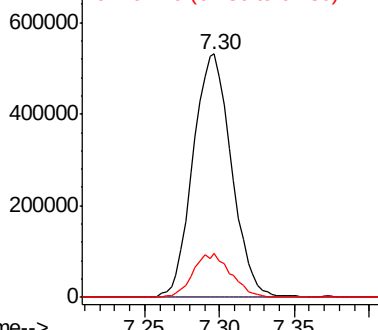
63 100

41 0.0 62.0 93.0#

62 18.2 55.4 83.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#52

Tetrachloroethene

Concen: 0.034 ppbv

RT: 11.39 min Scan# 2629

Delta R.T. 0.00 min

Lab File: VL032767.D

Acq: 14 Nov 2018 20:23

Tgt Ion: 164 Resp: 3470

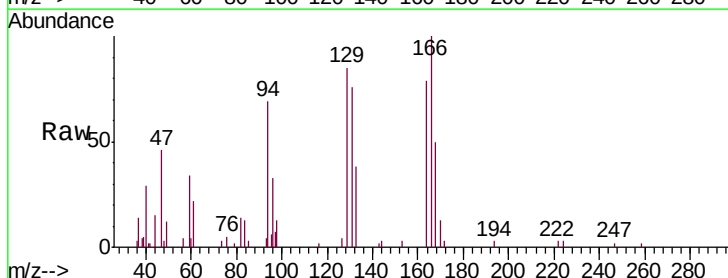
Ion Ratio Lower Upper

164 100

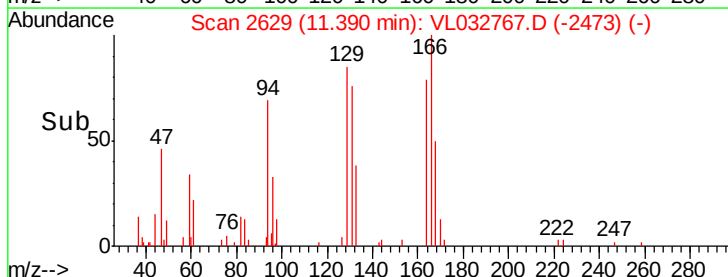
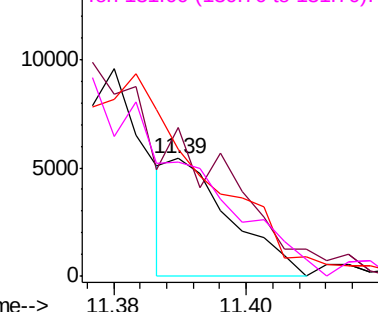
166 104.6 99.3 148.9

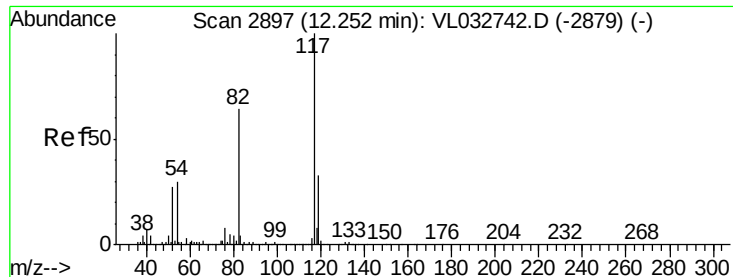
129 91.3 83.9 125.9

131 82.8 80.8 121.2



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

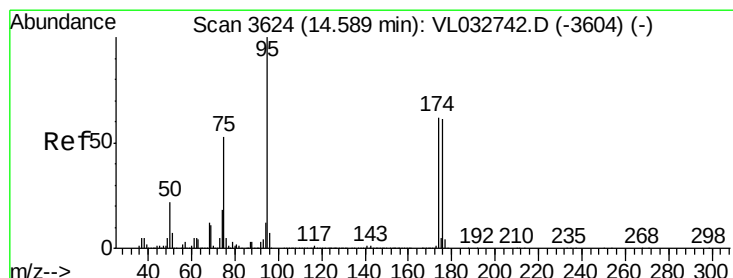
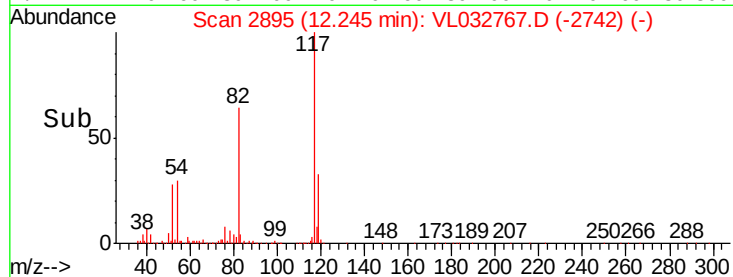
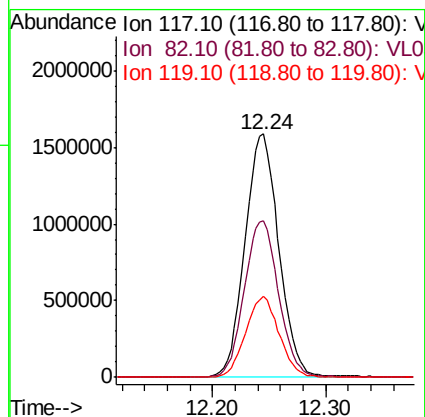
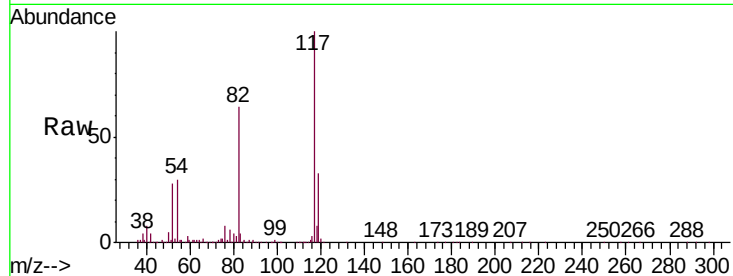




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032767.D
Acq: 14 Nov 2018 20:23

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tgt Ion:117 Resp: 3306922
Ion Ratio Lower Upper
117 100
82 65.8 51.0 76.6
119 33.1 28.0 42.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.432 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.01 min
Lab File: VL032767.D
Acq: 14 Nov 2018 20:23

Tgt Ion: 95 Resp: 2580304
Ion Ratio Lower Upper
95 100
174 63.1 50.7 76.1
175 4.7 3.8 5.6

