

Data File : VL032843.D
Acq On : 29 Nov 2018 20:39
Operator : SY/AP
Sample : J6088-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IAS-3DL

Quant Time: Nov 30 06:26:07 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	1352599	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3414095	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3253831	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2480439	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

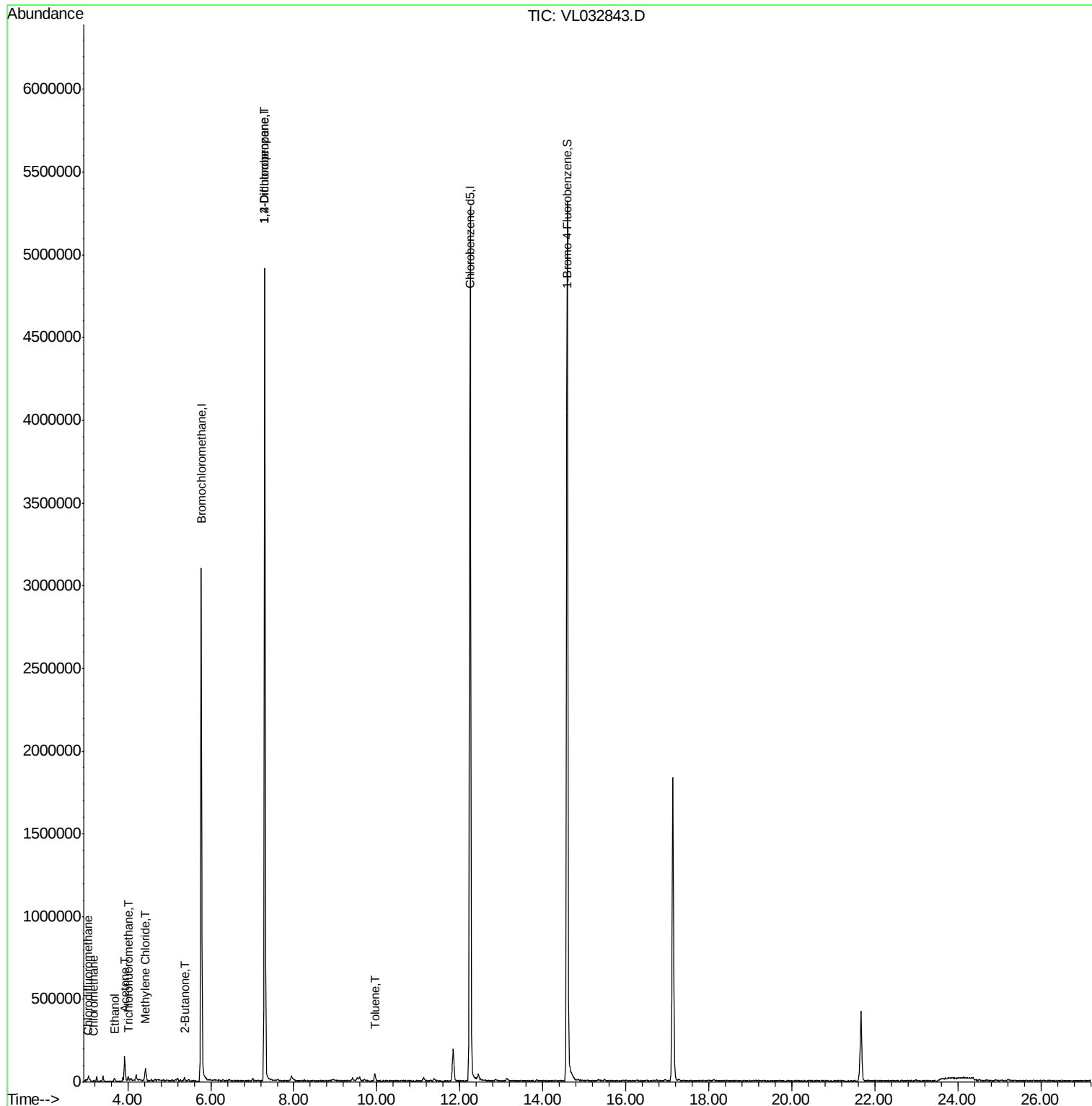
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.03	51	7882	0.074	ppbv	94
4) Chloromethane	3.18	50	3976	0.067	ppbv	97
11) Trichlorofluoromethane	4.01	101	6461	0.035	ppbv	95
13) Ethanol	3.68	45	7839	0.558	ppbv #	39
15) Acetone	3.92	43	129632	1.049	ppbv	100
20) Methylene Chloride	4.42	84	19487	0.305	ppbv #	91
34) 2-Butanone	5.36	43	13854	0.078	ppbv #	53
39) 1,2-Dichloropropane	7.30	63	847931	8.186	ppbv #	23
53) Toluene	9.95	91	32529	0.115	ppbv	98

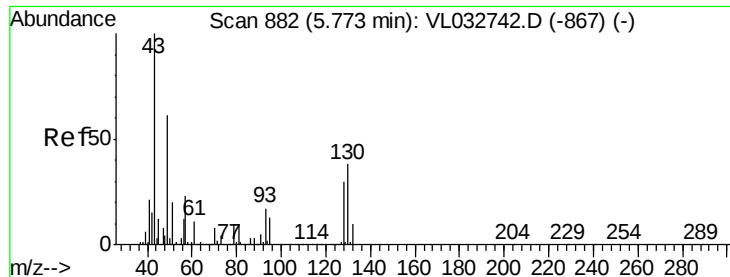
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
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QLast Update : Wed Nov 14 07:00:23 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

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IAS-3DL

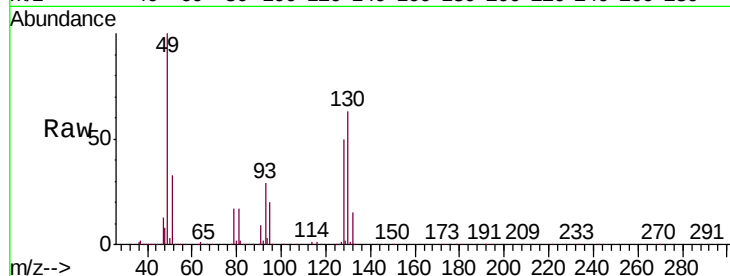
Tgt Ion: 49 Resp: 1352599

Ion Ratio Lower Upper

49 100

128 52.8 24.9 74.6

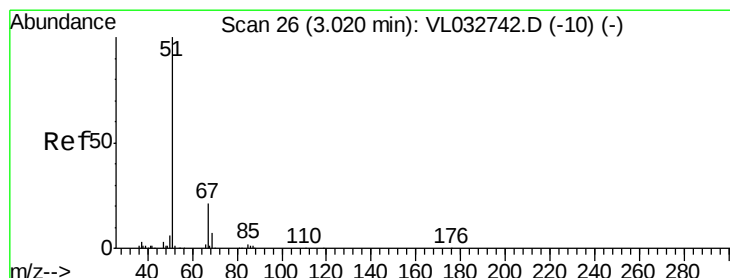
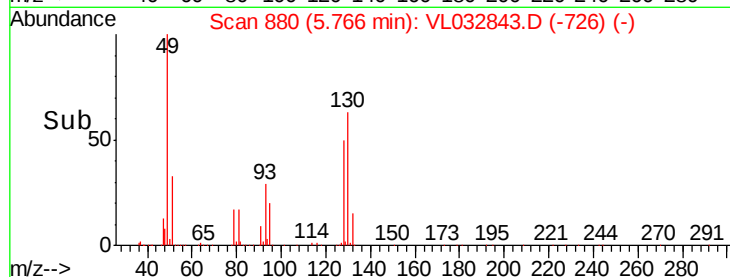
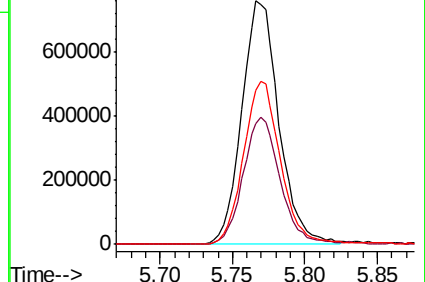
130 67.9 31.4 94.2



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



#3

Chlorodifluoromethane

Concen: 0.074 ppbv

RT: 3.03 min Scan# 28

Delta R.T. 0.01 min

Lab File: VL032843.D

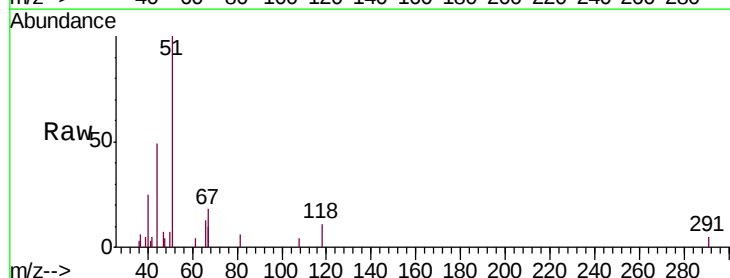
Acq: 29 Nov 2018 20:39

Tgt Ion: 51 Resp: 7882

Ion Ratio Lower Upper

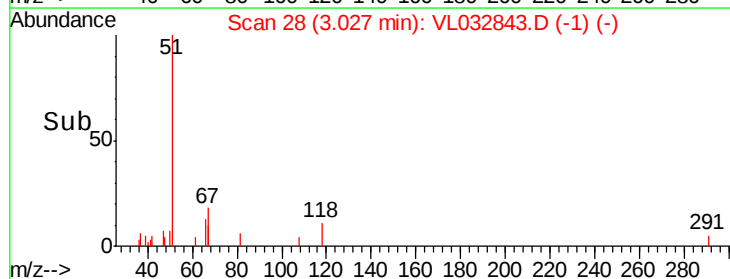
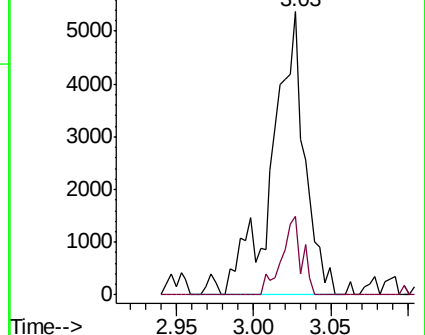
51 100

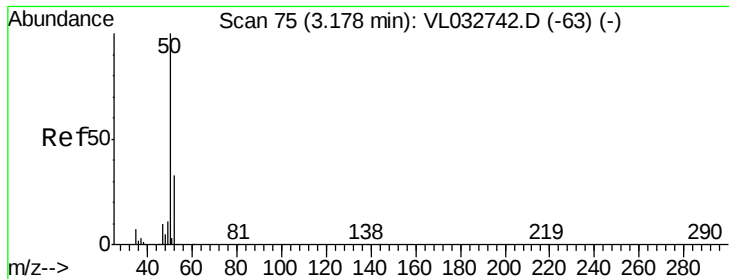
67 17.1 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.067 ppbv

RT: 3.18 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL032843.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_L

ClientSampleId :

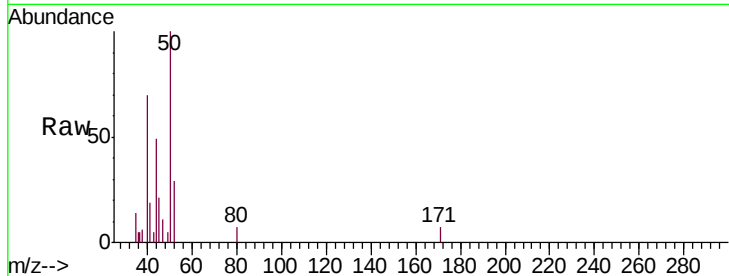
IAS-3DL

Tgt Ion: 50 Resp: 3976

Ion Ratio Lower Upper

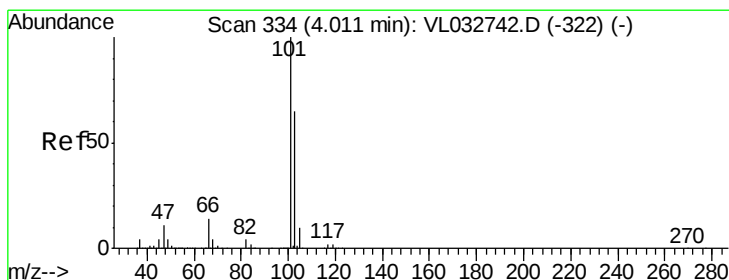
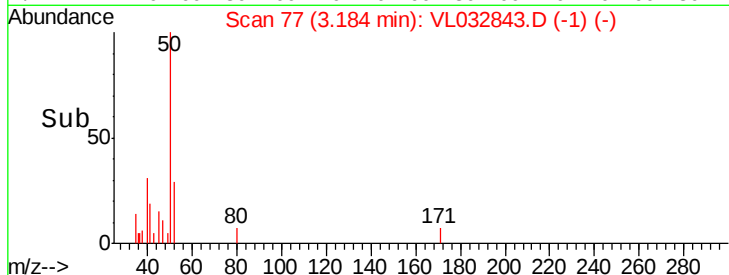
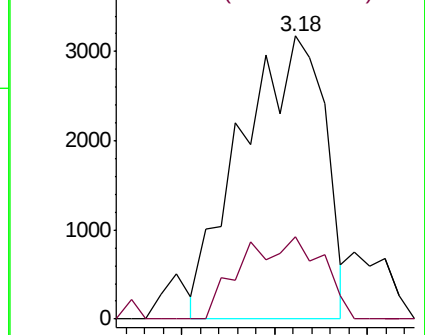
50 100

52 31.8 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#11

Trichlorofluoromethane

Concen: 0.035 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL032843.D

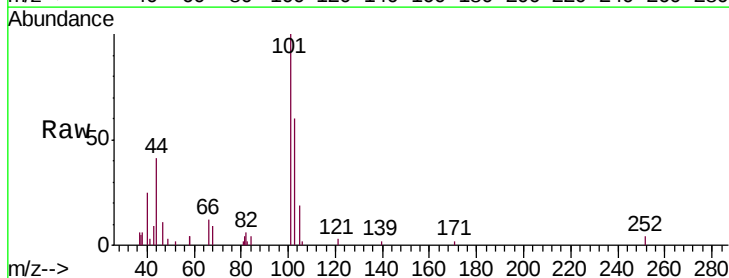
Acq: 29 Nov 2018 20:39

Tgt Ion: 101 Resp: 6461

Ion Ratio Lower Upper

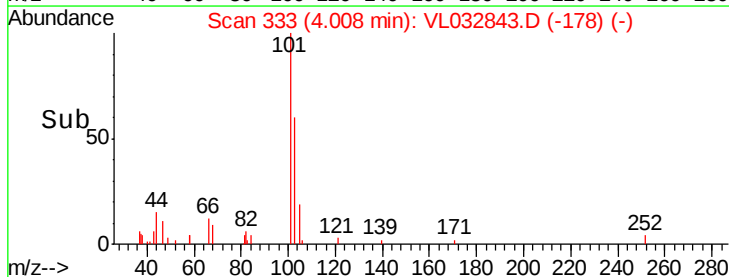
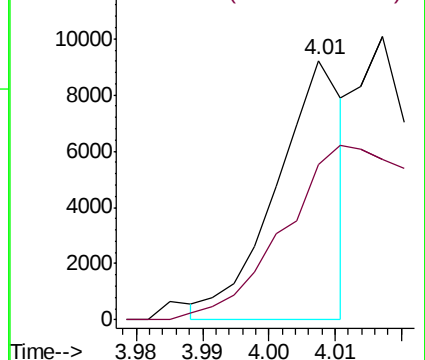
101 100

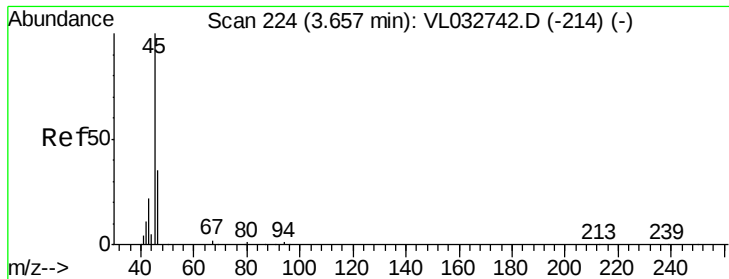
103 60.8 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

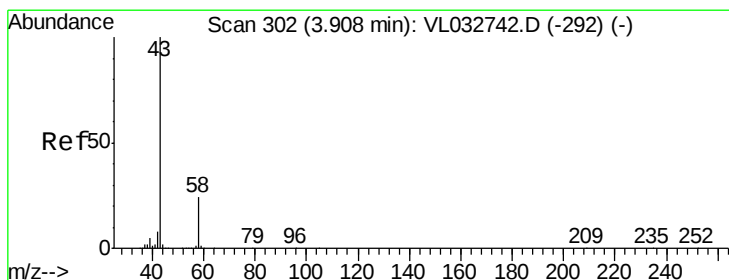
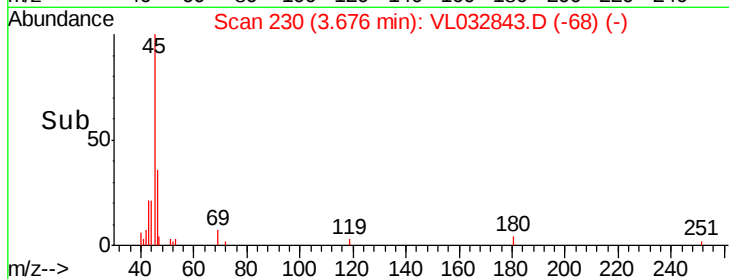
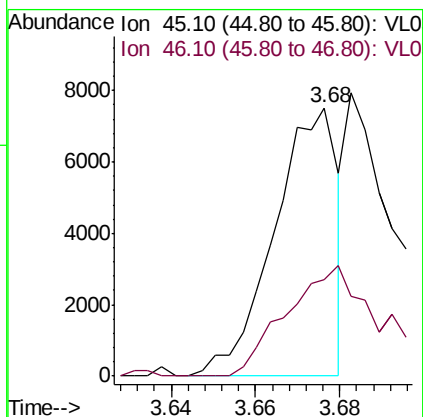
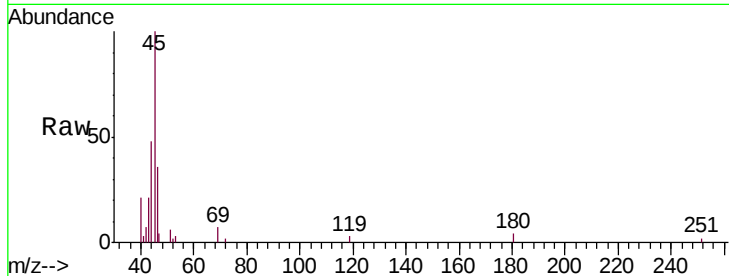




#13
Ethanol
Concen: 0.558 ppbv
RT: 3.68 min Scan# 230
Delta R.T. 0.02 min
Lab File: VL032843.D
Acq: 29 Nov 2018 20:39

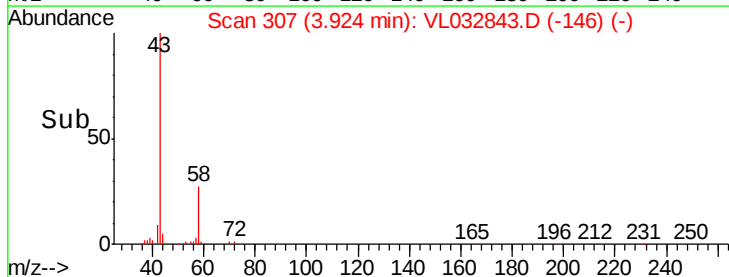
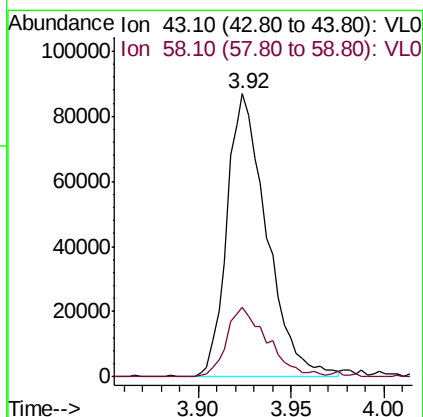
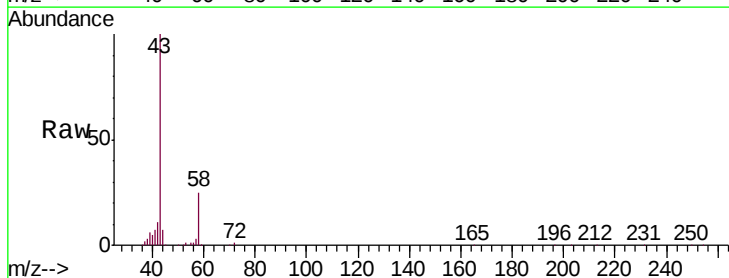
Instrument :
MSVOA_L
ClientSampleId :
IAS-3DL

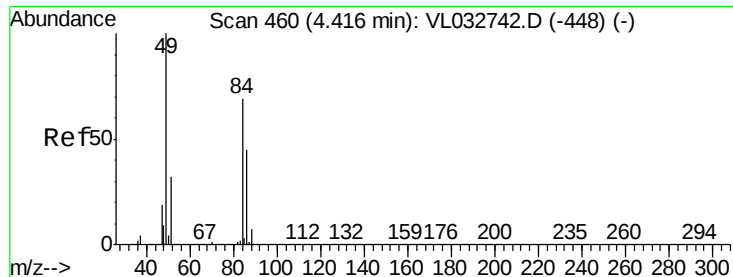
Tgt Ion: 45 Resp: 7839
Ion Ratio Lower Upper
45 100
46 0.0 14.5 57.9#



#15
Acetone
Concen: 1.049 ppbv
RT: 3.92 min Scan# 307
Delta R.T. 0.02 min
Lab File: VL032843.D
Acq: 29 Nov 2018 20:39

Tgt Ion: 43 Resp: 129632
Ion Ratio Lower Upper
43 100
58 26.4 21.1 31.7

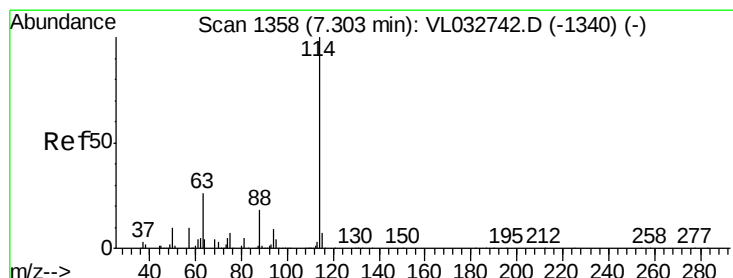
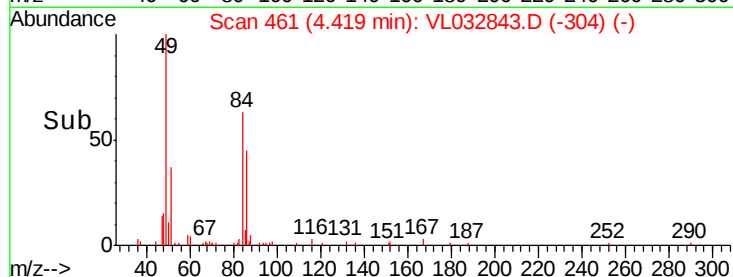
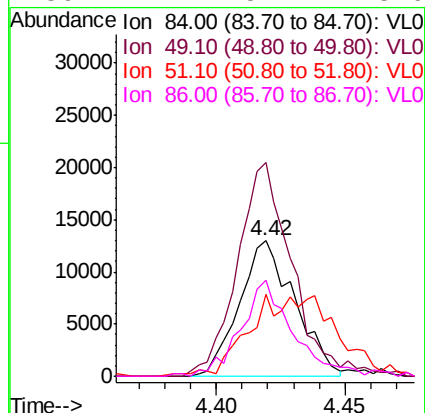
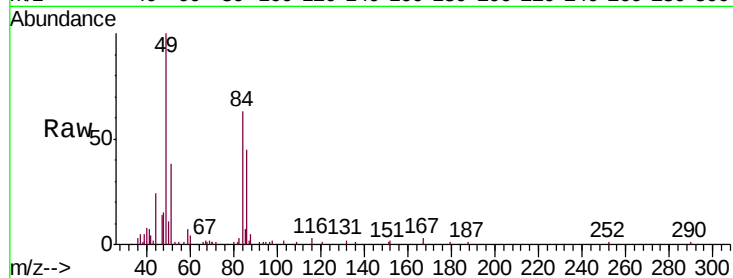




#20
Methylene Chloride
Concen: 0.305 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032843.D
Acq: 29 Nov 2018 20:39

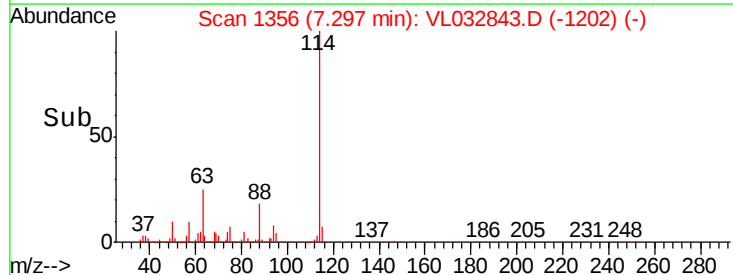
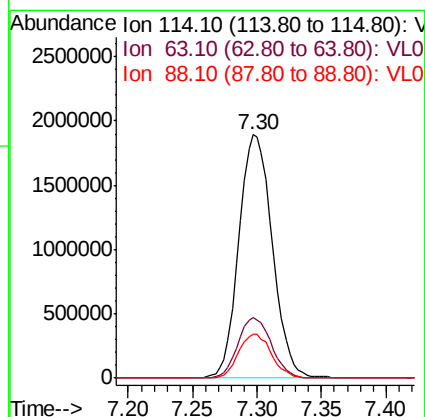
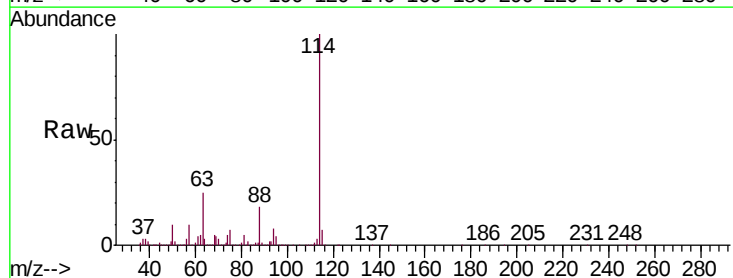
Instrument :
MSVOA_L
ClientSampleId :
IAS-3DL

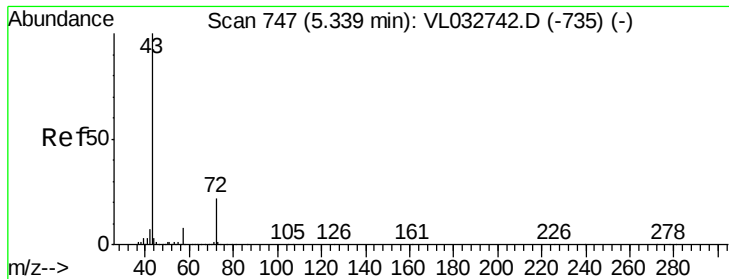
Tgt Ion:	84	Resp:	19487
Ion	Ratio	Lower	Upper
84	100		
49	153.7	115.8	173.6
51	58.3	36.9	55.3#
86	71.1	52.4	78.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VL032843.D
Acq: 29 Nov 2018 20:39

Tgt Ion:	114	Resp:	3414095
Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.9	31.3
88	17.9	14.4	21.6





#34

2-Butanone

Concen: 0.078 ppbv

RT: 5.36 min Scan# 754

Delta R.T. 0.02 min

Lab File: VL032843.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_L

ClientSampleId :

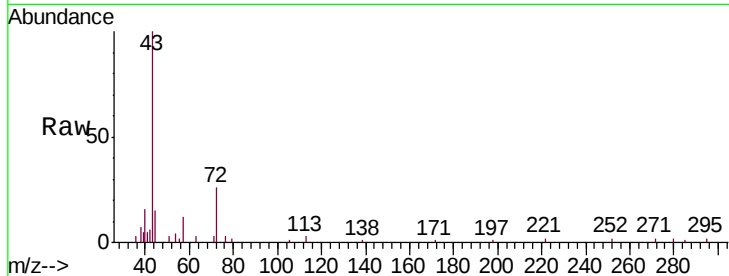
IAS-3DL

Tgt Ion: 43 Resp: 13854

Ion Ratio Lower Upper

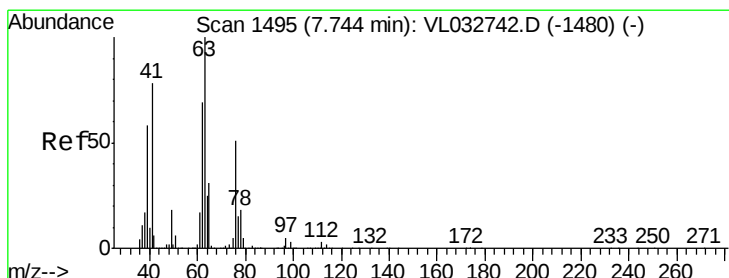
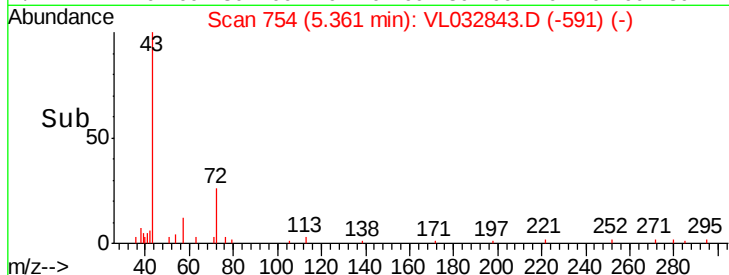
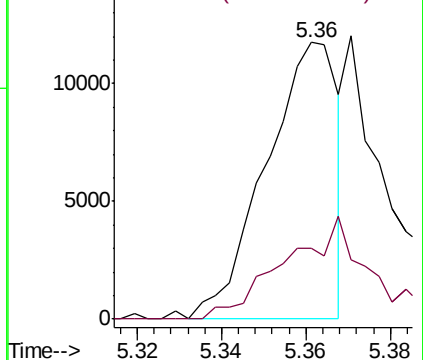
43 100

72 0.0 18.4 27.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#39

1,2-Dichloropropane

Concen: 8.186 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032843.D

Acq: 29 Nov 2018 20:39

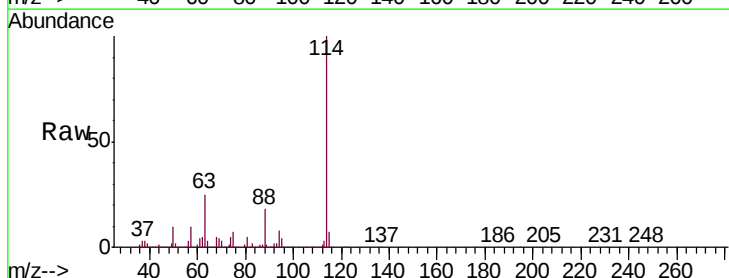
Tgt Ion: 63 Resp: 847931

Ion Ratio Lower Upper

63 100

41 0.1 62.0 93.0#

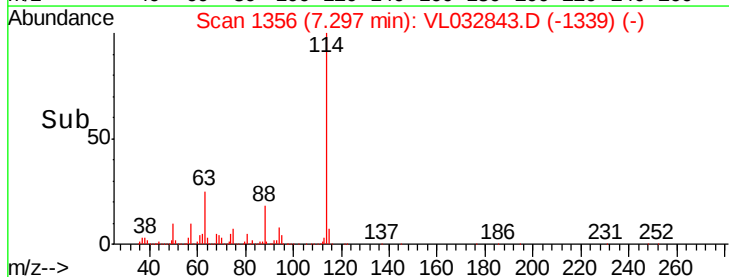
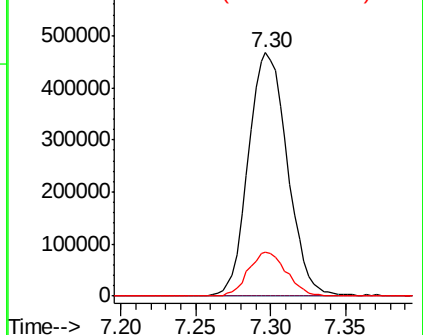
62 18.3 55.4 83.2#

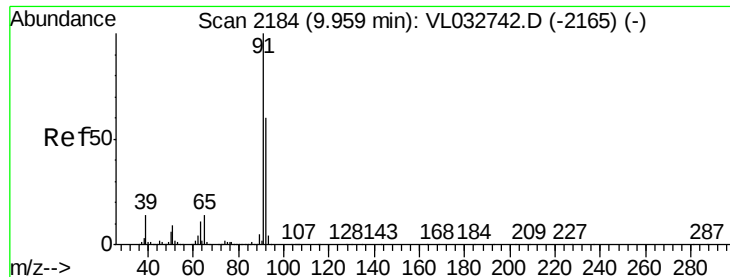


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.115 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032843.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_L

ClientSampleId :

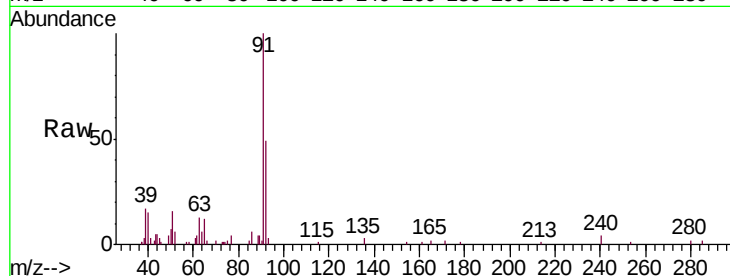
IAS-3DL

Tgt Ion: 91 Resp: 32529

Ion Ratio Lower Upper

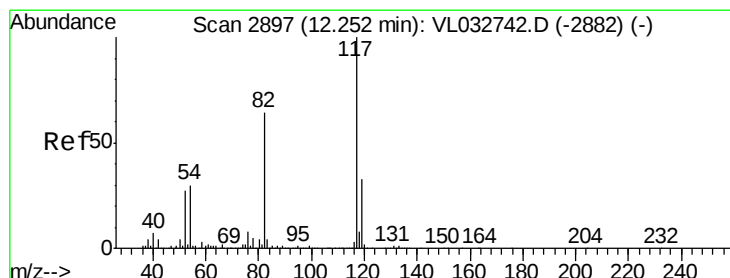
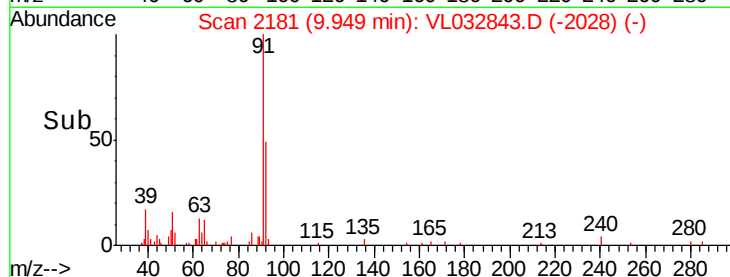
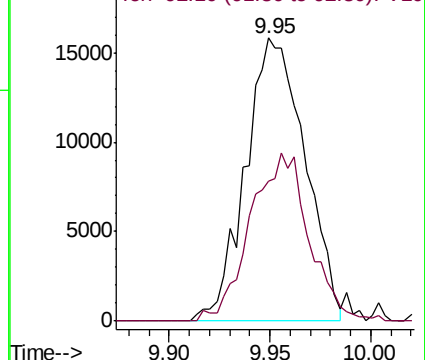
91 100

92 58.6 47.9 71.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032843.D

Acq: 29 Nov 2018 20:39

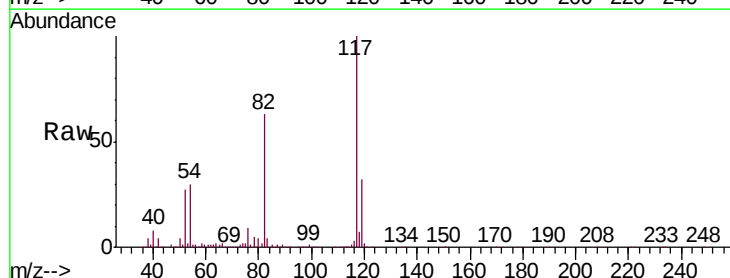
Tgt Ion: 117 Resp: 3253831

Ion Ratio Lower Upper

117 100

82 63.8 51.0 76.6

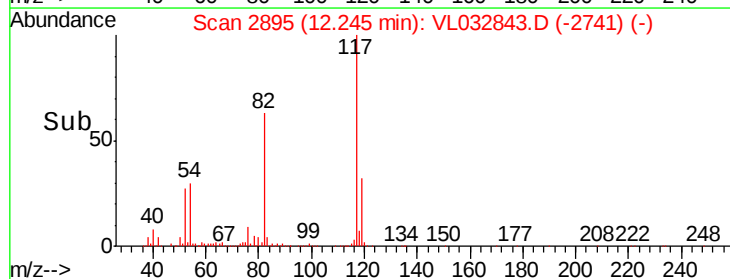
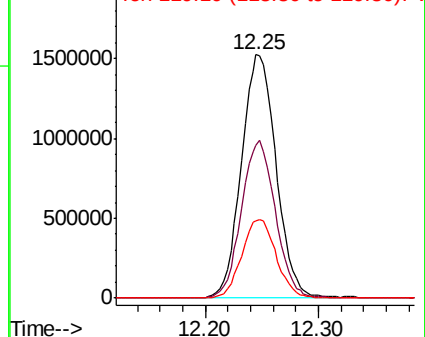
119 32.5 28.0 42.0

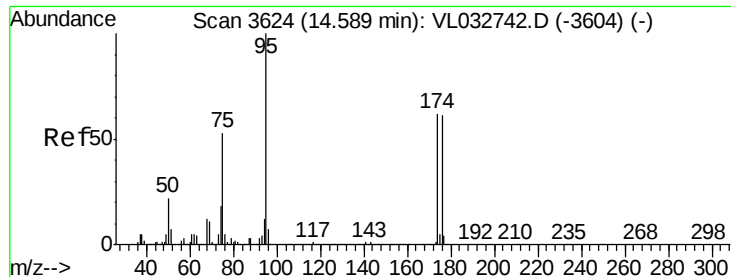


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.192 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032843.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_L

ClientSampleId :

IAS-3DL

Tgt Ion: 95 Resp: 2480439

Ion Ratio Lower Upper

95 100

174 65.7 50.7 76.1

175 4.8 3.8 5.6

