

Data File : VL032837.D
Acq On : 29 Nov 2018 16:41
Operator : SY/AP
Sample : J6088-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IAS-1DL

Quant Time: Nov 30 06:24:27 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	1482846	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3773832	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3564076	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.59 95 2735938 10.26 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.02	51	103985	0.885	ppbv #	87
9) Propene	3.24	41	14932	0.317	ppbv	91
11) Trichlorofluoromethane	4.02	101	14649	0.073	ppbv	86
13) Ethanol	3.67	45	68648	4.455	ppbv	98
15) Acetone	3.91	43	443873	3.278	ppbv	97
19) Isopropyl Alcohol	4.06	45	53033	0.588	ppbv #	95
20) Methylene Chloride	4.42	84	47960	0.684	ppbv	84
25) Ethyl Acetate	5.79	43	86104	0.273	ppbv #	81
26) Hexane	5.79	57	111029	0.790	ppbv #	44
34) 2-Butanone	5.36	43	21709	0.111	ppbv #	28
36) Benzene	7.01	78	13003	0.043	ppbv #	83
38) Trichloroethene	7.97	130	8567	0.070	ppbv #	87
39) 1,2-Dichloropropane	7.30	63	925467	8.083	ppbv #	22
44) 2,2,4-Trimethylpentane	8.00	57	15744	0.031	ppbv #	49
53) Toluene	9.96	91	227314	0.725	ppbv	98
59) m/p-Xylene	13.13	91	19973	0.052	ppbv #	31

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

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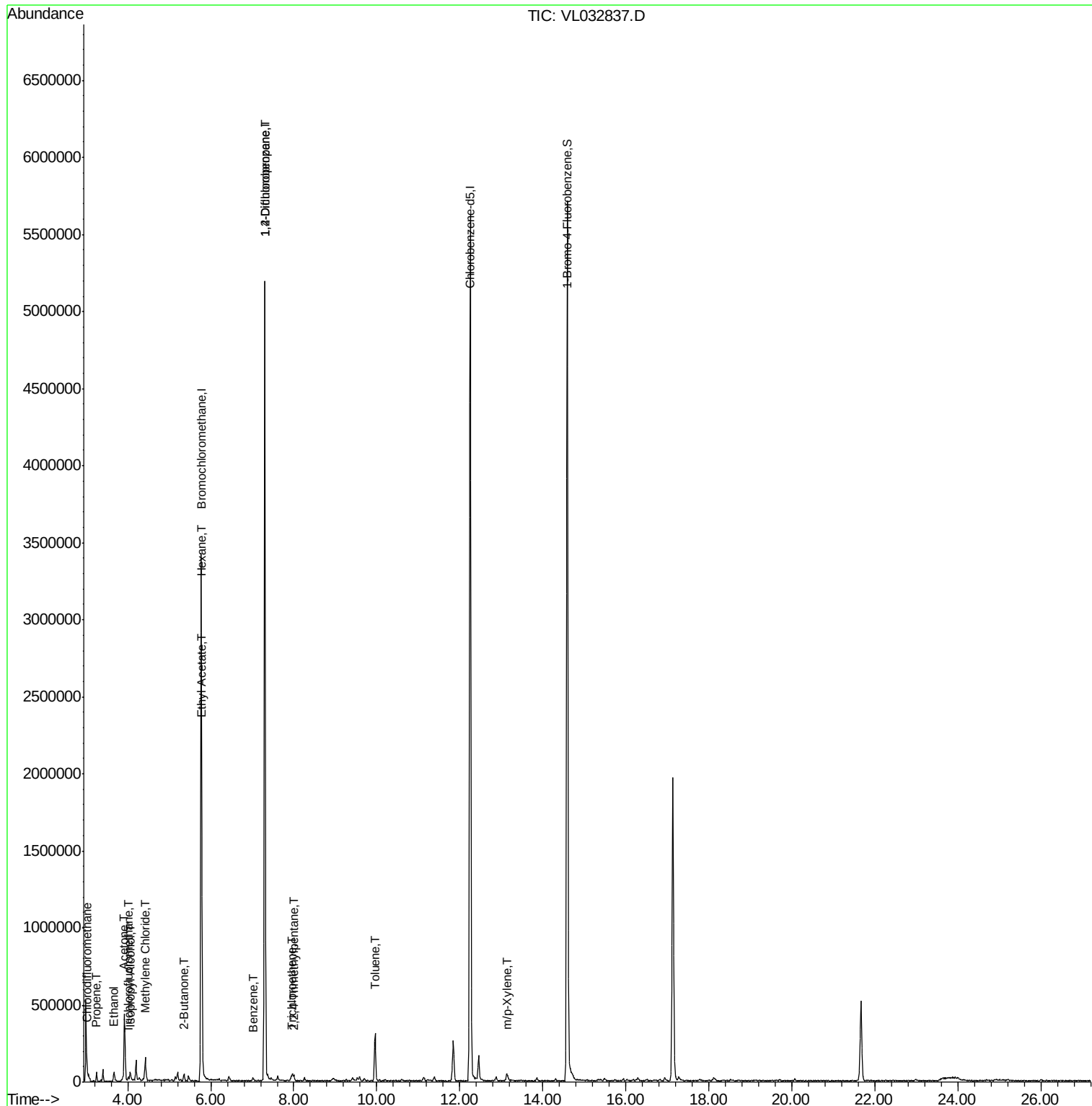
Quant Time: Nov 30 06:24:27 2018

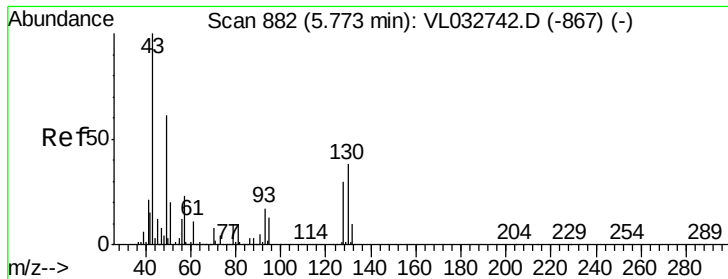
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M

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# 881

Delta R.T. -0.00 min

Lab File: VL032837.D

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Instrument :

MSVOA_L

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IAS-1DL

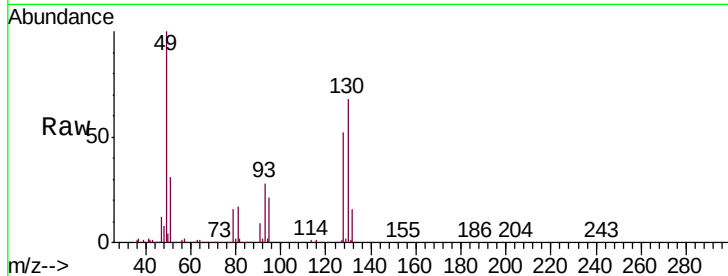
Tgt Ion: 49 Resp: 1482846

Ion Ratio Lower Upper

49 100

128 52.7 24.9 74.6

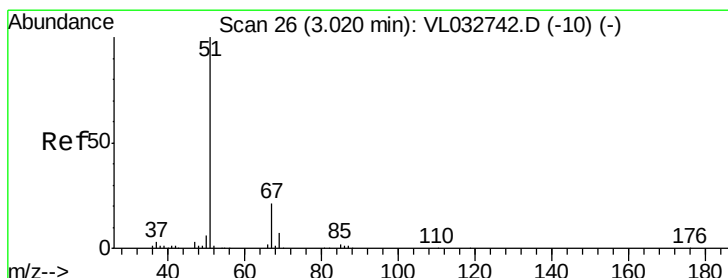
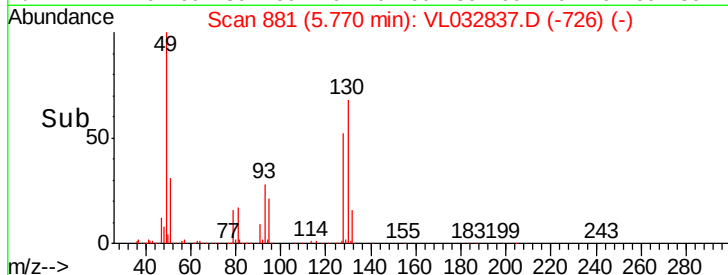
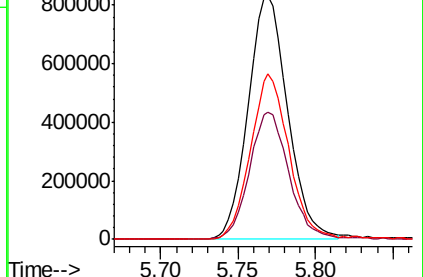
130 66.8 31.4 94.2



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



#3

Chlorodifluoromethane

Concen: 0.885 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032837.D

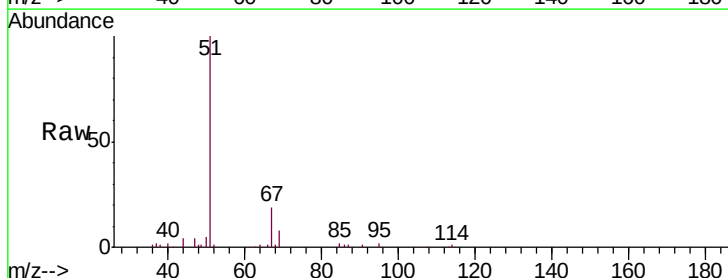
Acq: 29 Nov 2018 16:41

Tgt Ion: 51 Resp: 103985

Ion Ratio Lower Upper

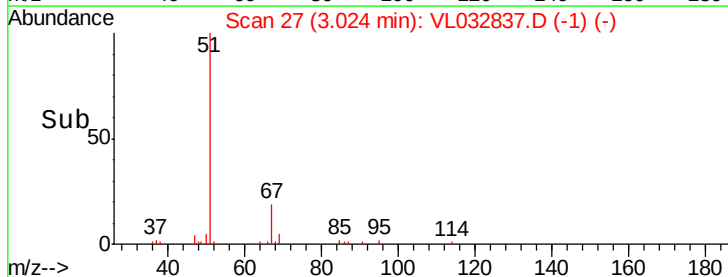
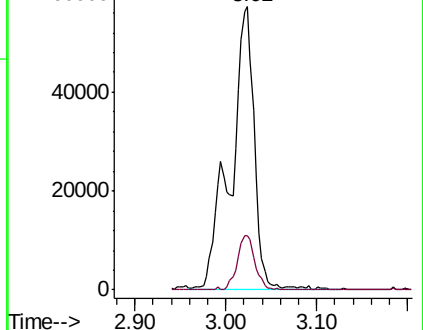
51 100

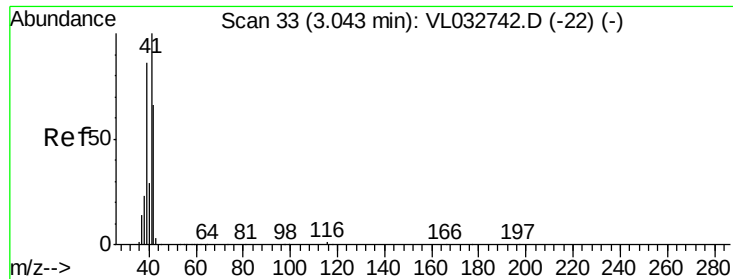
67 14.3 16.1 24.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.317 ppbv

RT: 3.24 min Scan# 95

Delta R.T. 0.20 min

Lab File: VL032837.D

Acq: 29 Nov 2018 16:41

Instrument :

MSVOA_L

ClientSampleID :

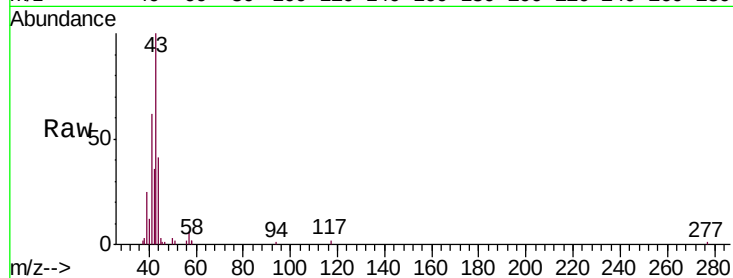
IAS-1DL

Tgt Ion: 41 Resp: 14932

Ion Ratio Lower Upper

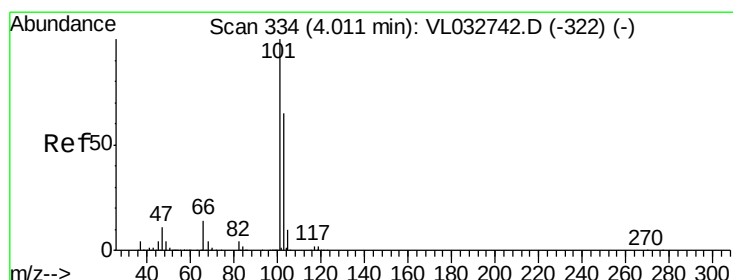
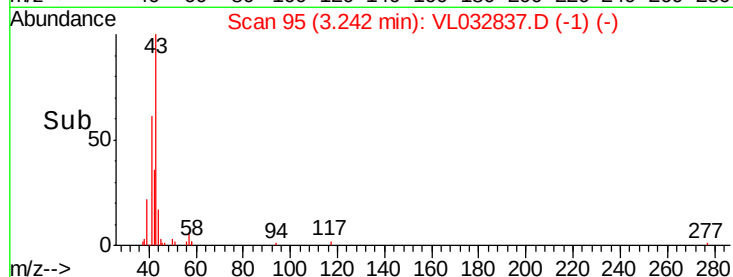
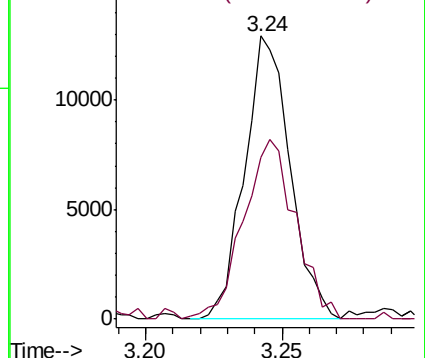
41 100

42 76.4 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.073 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.01 min

Lab File: VL032837.D

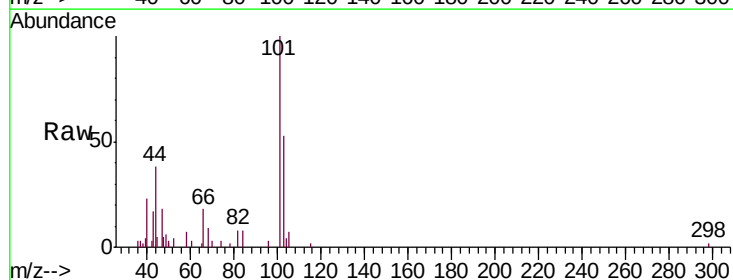
Acq: 29 Nov 2018 16:41

Tgt Ion: 101 Resp: 14649

Ion Ratio Lower Upper

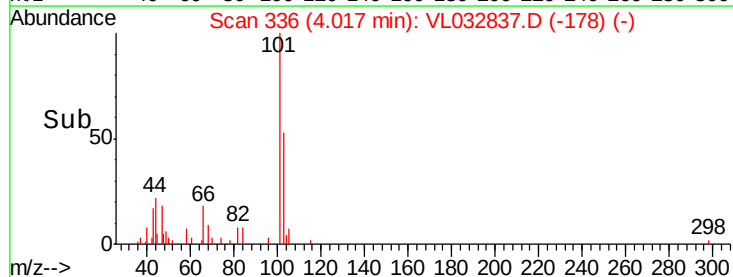
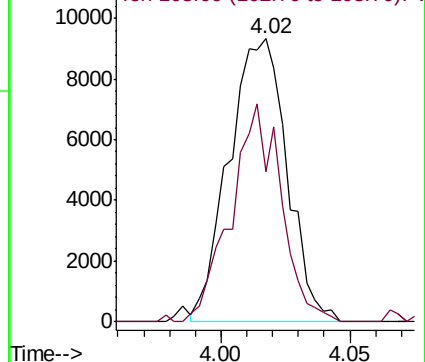
101 100

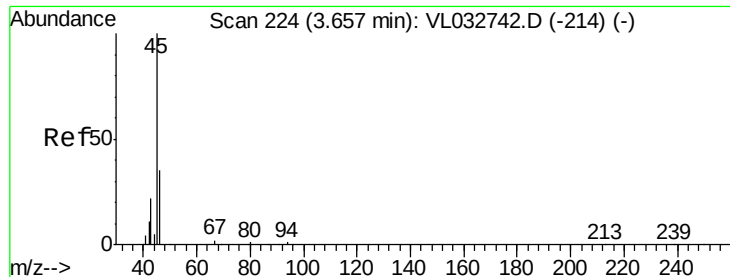
103 53.3 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

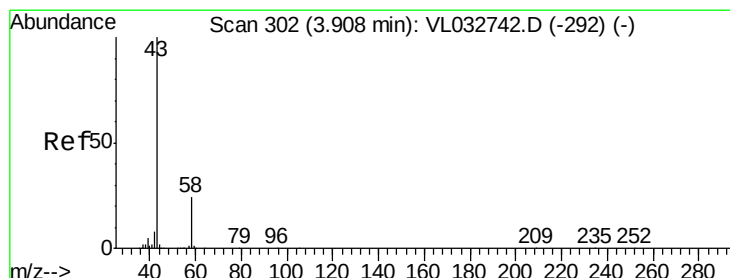
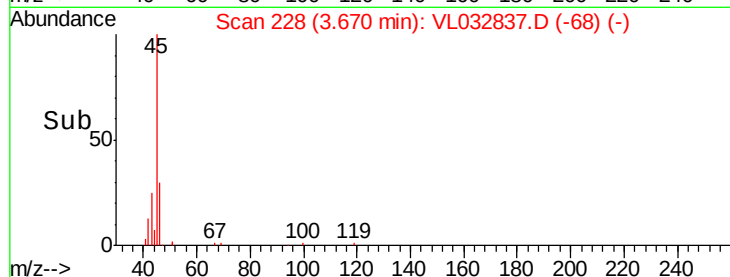
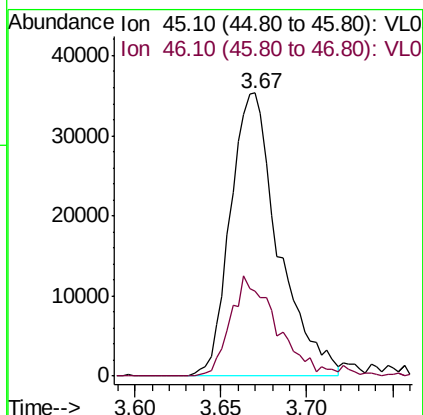
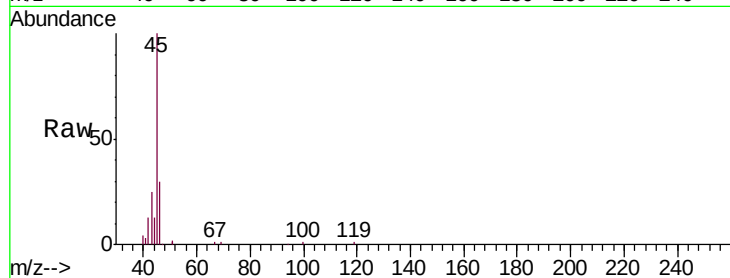




#13
Ethanol
Concen: 4.455 ppbv
RT: 3.67 min Scan# 228
Delta R.T. 0.01 min
Lab File: VL032837.D
Acq: 29 Nov 2018 16:41

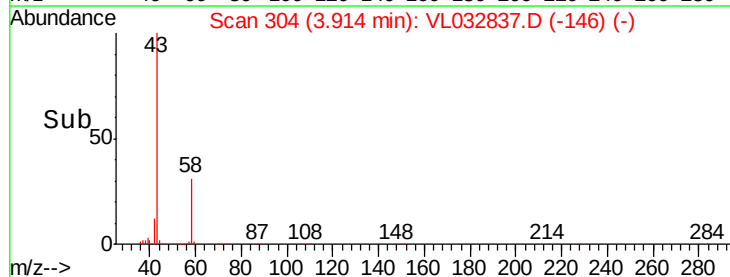
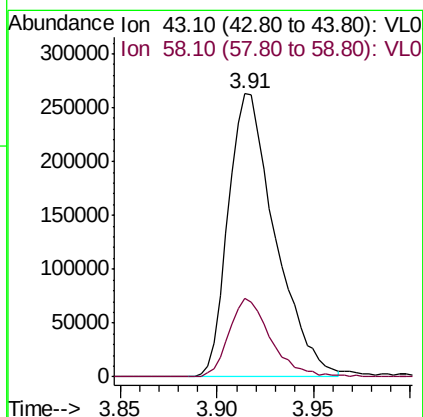
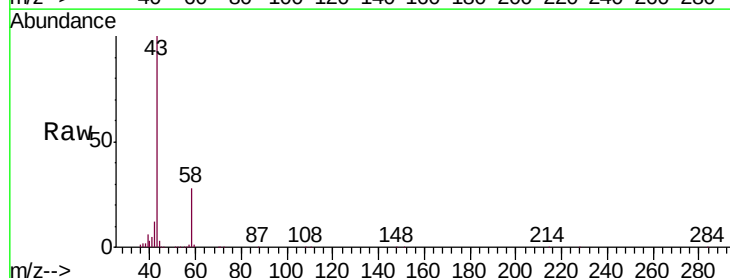
Instrument :
MSVOA_L
ClientSampleId :
IAS-1DL

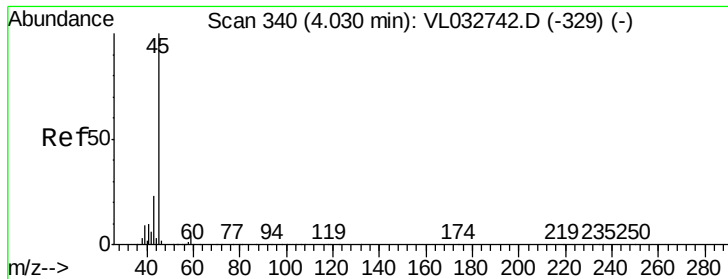
Tgt Ion: 45 Resp: 68648
Ion Ratio Lower Upper
45 100
46 35.0 14.5 57.9



#15
Acetone
Concen: 3.278 ppbv
RT: 3.91 min Scan# 304
Delta R.T. 0.01 min
Lab File: VL032837.D
Acq: 29 Nov 2018 16:41

Tgt Ion: 43 Resp: 443873
Ion Ratio Lower Upper
43 100
58 24.9 21.1 31.7





#19

Isopropyl Alcohol

Concen: 0.588 ppbv

RT: 4.06 min Scan# 348

Delta R.T. 0.03 min

Lab File: VL032837.D

Acq: 29 Nov 2018 16:41

Instrument :

MSVOA_L

ClientSampleId :

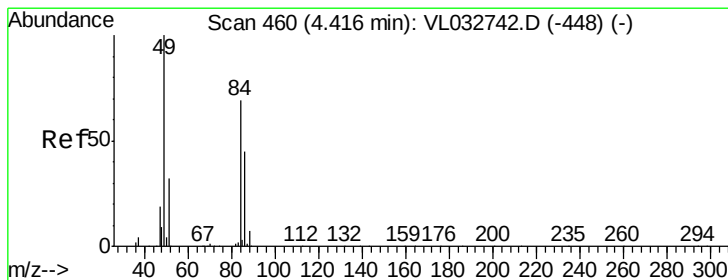
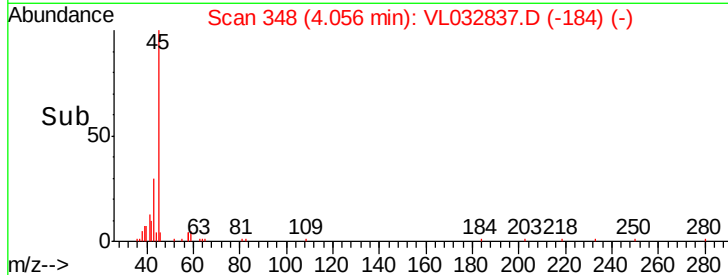
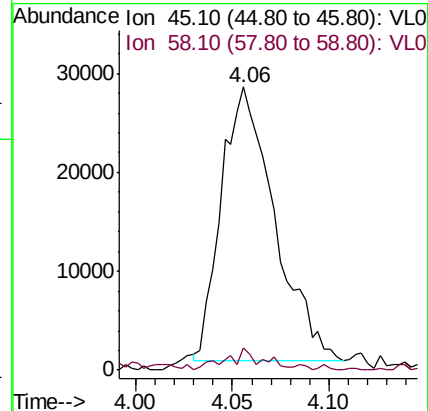
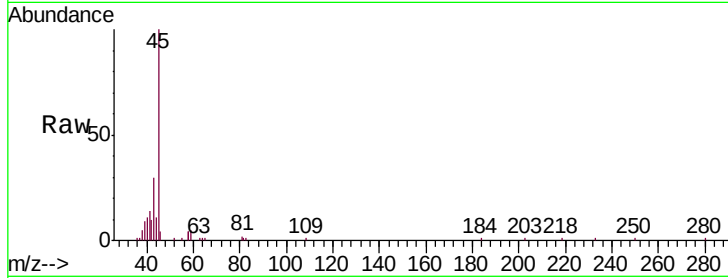
IAS-1DL

Tgt Ion: 45 Resp: 53033

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#



#20

Methylene Chloride

Concen: 0.684 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL032837.D

Acq: 29 Nov 2018 16:41

Tgt Ion: 84 Resp: 47960

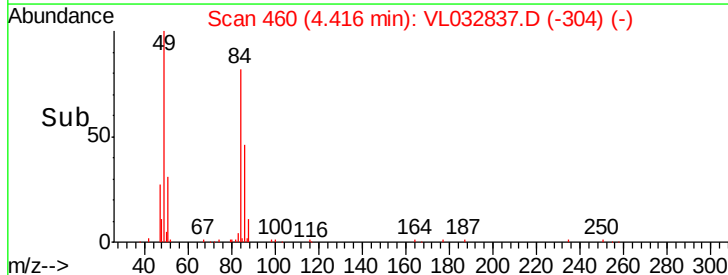
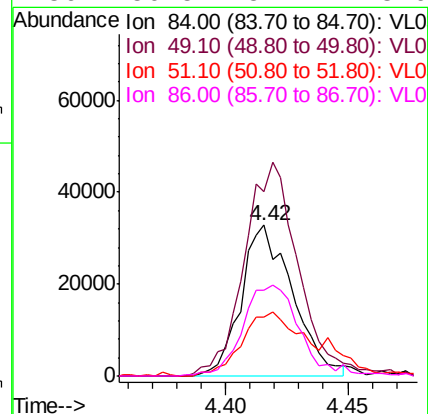
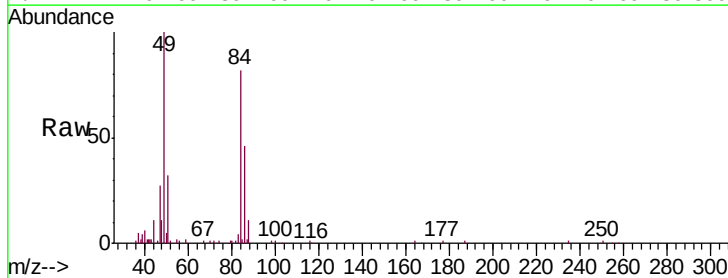
Ion Ratio Lower Upper

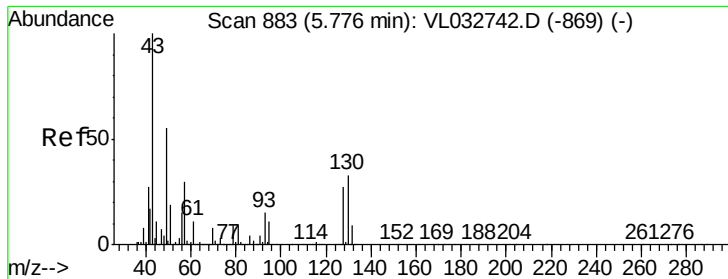
84 100

49 120.8 115.8 173.6

51 38.7 36.9 55.3

86 56.5 52.4 78.6





#25

Ethyl Acetate

Concen: 0.273 ppbv

RT: 5.79 min Scan# 888

Delta R.T. 0.02 min

Lab File: VL032837.D

Acq: 29 Nov 2018 16:41

Instrument :

MSVOA_L

ClientSampleId :

IAS-1DL

Tgt Ion: 43 Resp: 86104

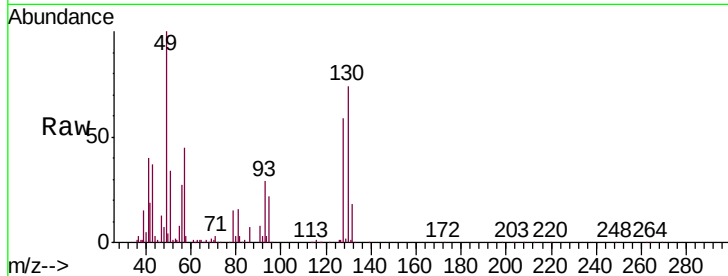
Ion Ratio Lower Upper

43 100

45 2.2 7.9 11.9#

61 1.5 7.8 11.6#

70 2.4 5.8 8.6#

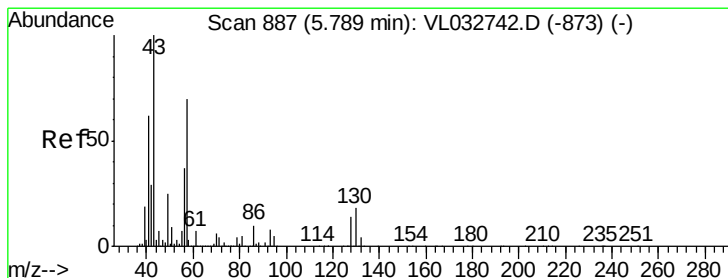
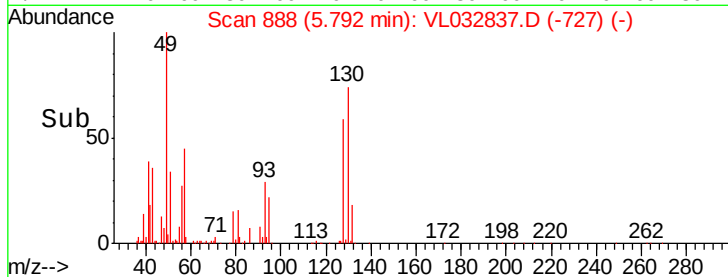
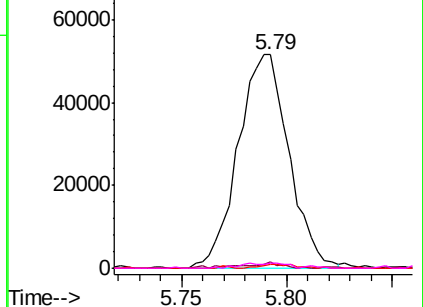


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.790 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.00 min

Lab File: VL032837.D

Acq: 29 Nov 2018 16:41

Tgt Ion: 57 Resp: 111029

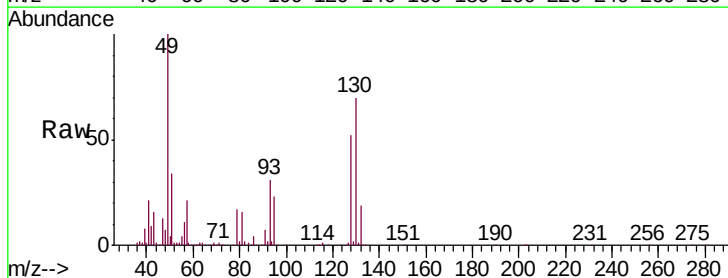
Ion Ratio Lower Upper

57 100

41 95.5 70.3 105.5

43 77.3 174.0 261.0#

56 57.8 42.3 63.5

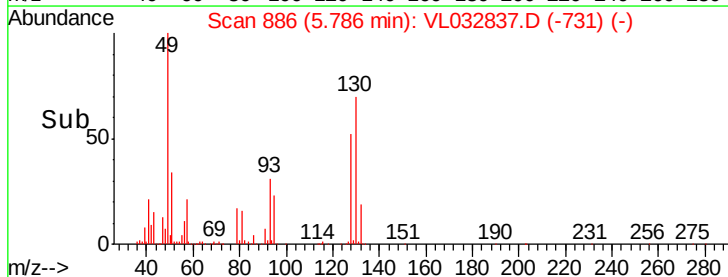
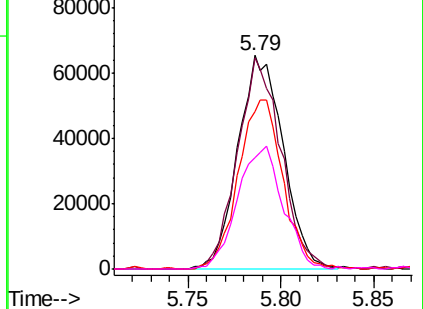


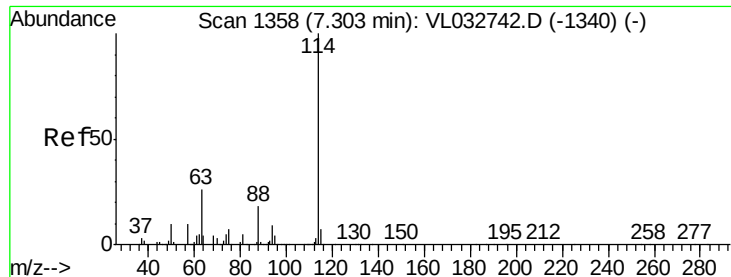
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

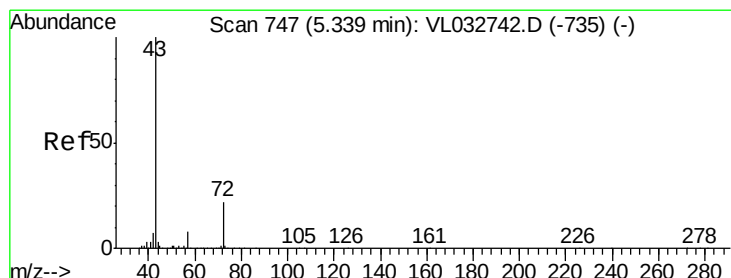
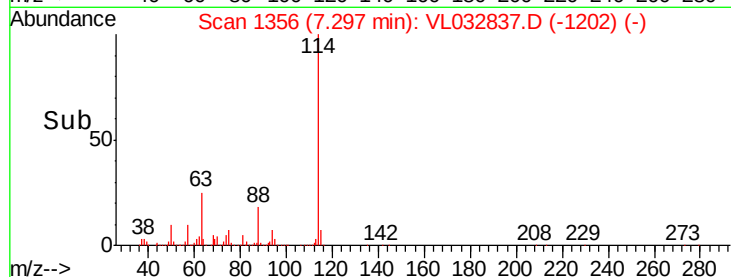
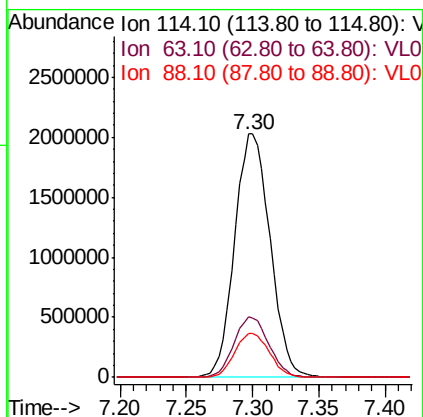
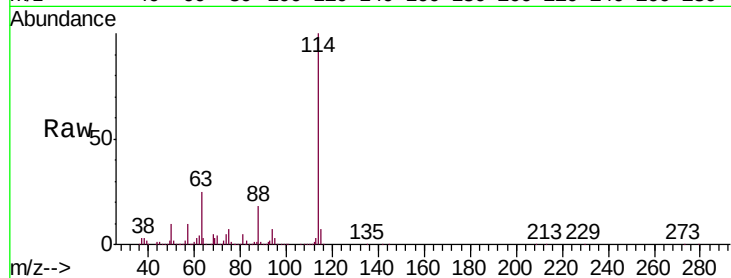




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VL032837.D
 Acq: 29 Nov 2018 16:41

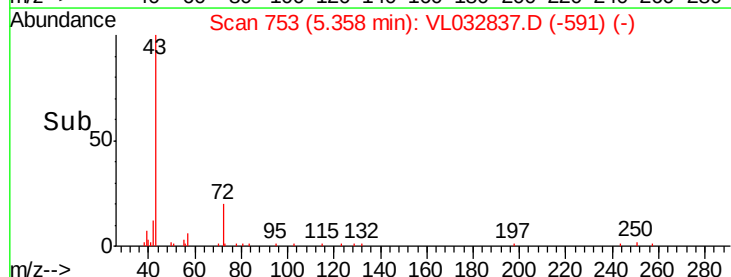
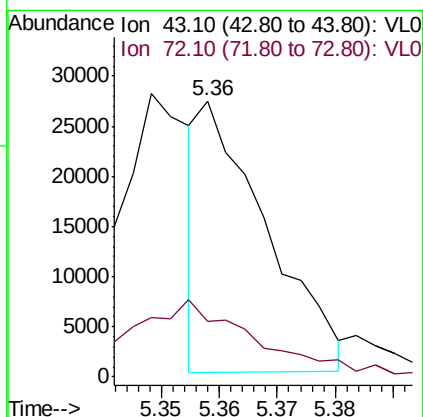
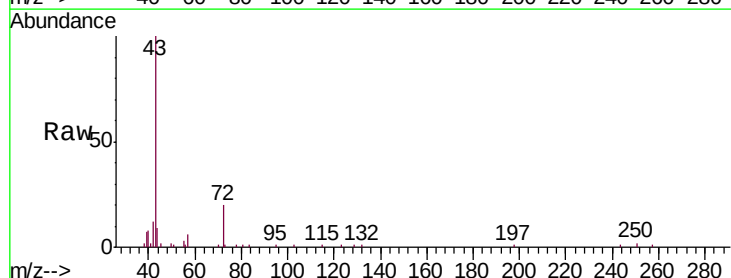
Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1DL

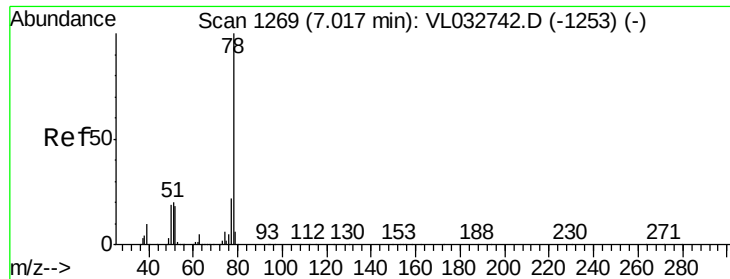
Tgt Ion:114 Resp: 3773832
 Ion Ratio Lower Upper
 114 100
 63 24.7 20.9 31.3
 88 17.8 14.4 21.6



#34
 2-Butanone
 Concen: 0.111 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. 0.02 min
 Lab File: VL032837.D
 Acq: 29 Nov 2018 16:41

Tgt Ion: 43 Resp: 21709
 Ion Ratio Lower Upper
 43 100
 72 57.8 18.4 27.6#





#36

Benzene

Concen: 0.043 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032837.D

Acq: 29 Nov 2018 16:41

Instrument :

MSVOA_L

ClientSampleId :

IAS-1DL

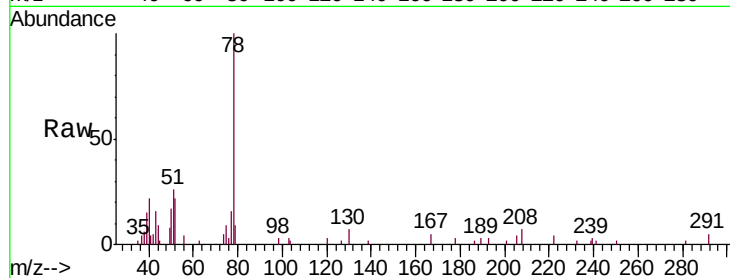
Tgt Ion: 78 Resp: 13003

Ion Ratio Lower Upper

78 100

77 11.7 17.8 26.8#

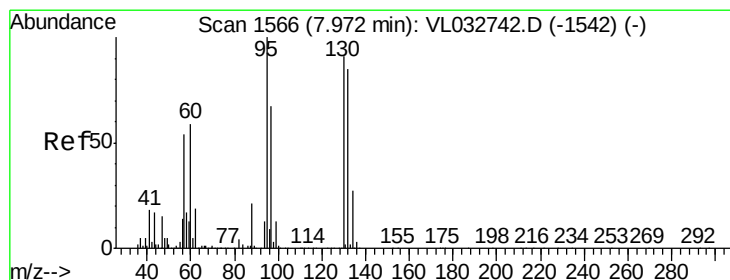
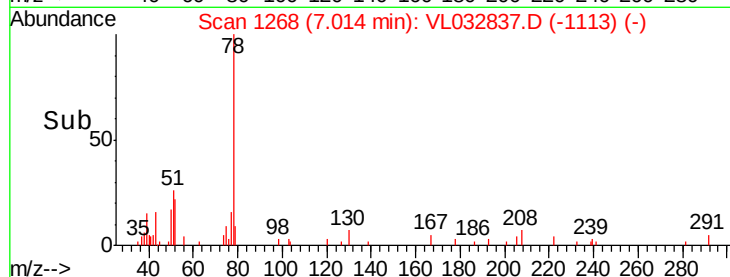
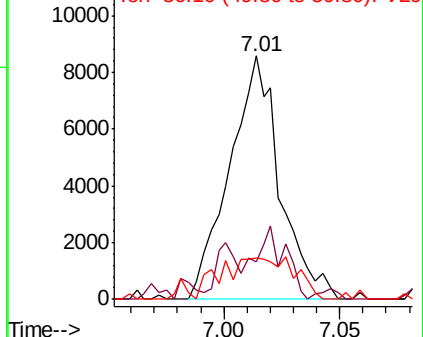
50 14.0 15.4 23.0#



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 0.070 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. -0.01 min

Lab File: VL032837.D

Acq: 29 Nov 2018 16:41

Tgt Ion: 130 Resp: 8567

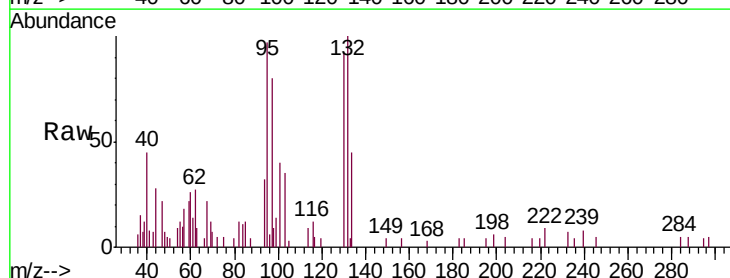
Ion Ratio Lower Upper

130 100

95 97.5 87.7 131.5

132 102.3 74.6 111.8

97 88.1 58.3 87.5#

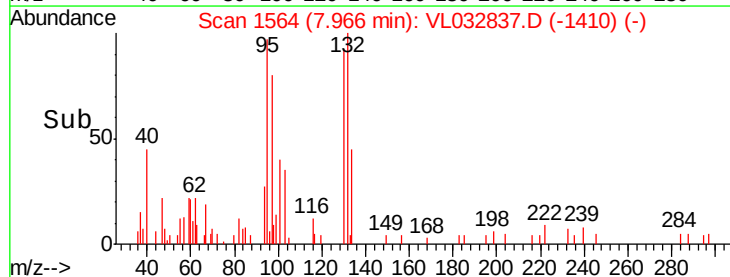
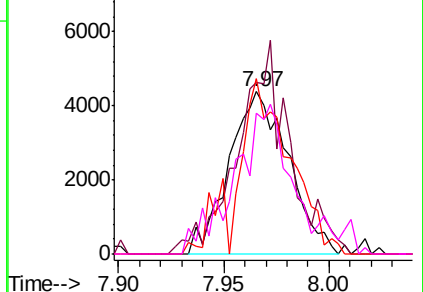


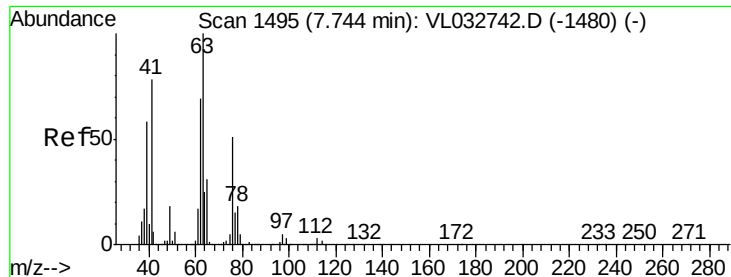
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 8.083 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032837.D

Acq: 29 Nov 2018 16:41

Instrument :

MSVOA_L

ClientSampleId :

IAS-1DL

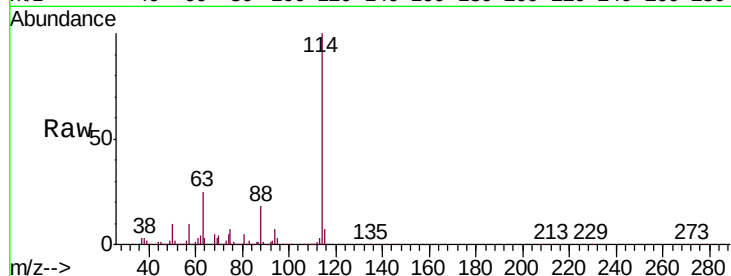
Tgt Ion: 63 Resp: 925467

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

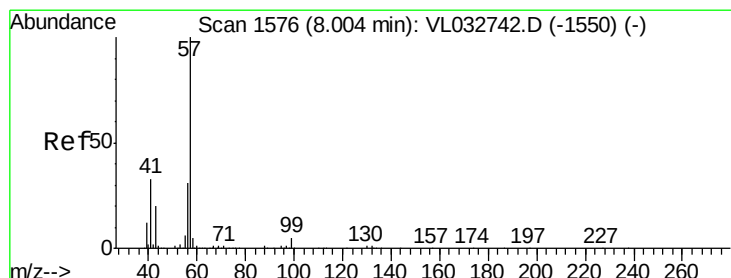
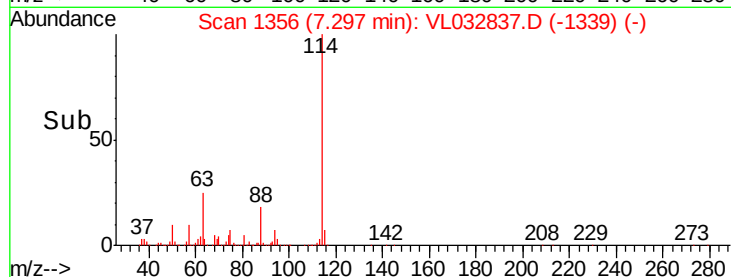
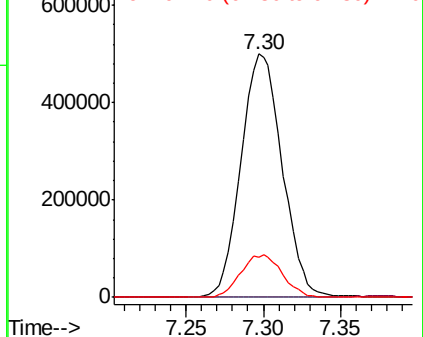
62 16.6 55.4 83.2#



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



#44

2,2,4-Trimethylpentane

Concen: 0.031 ppbv

RT: 8.00 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VL032837.D

Acq: 29 Nov 2018 16:41

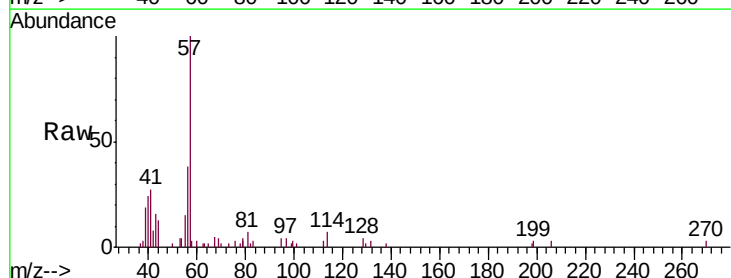
Tgt Ion: 57 Resp: 15744

Ion Ratio Lower Upper

57 100

41 61.8 26.6 39.8#

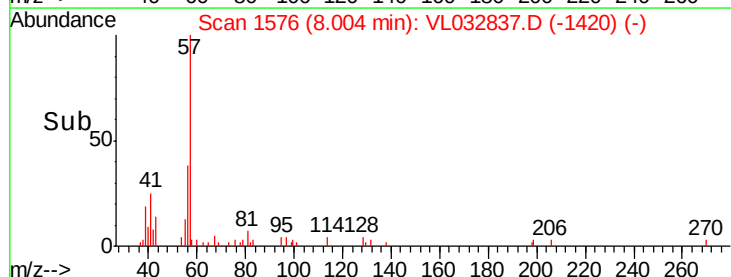
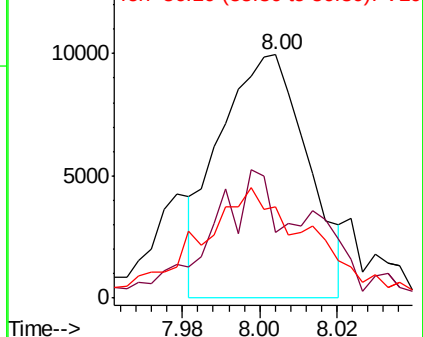
56 59.4 24.8 37.2#

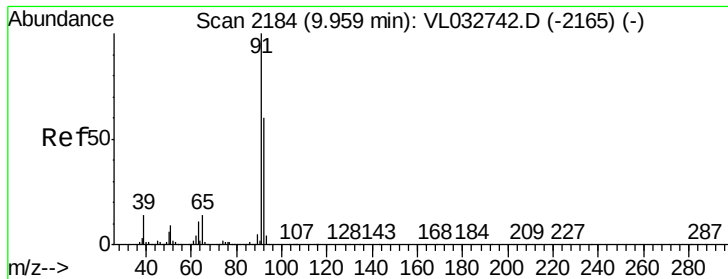


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.725 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. 0.00 min

Lab File: VL032837.D

Acq: 29 Nov 2018 16:41

Instrument :

MSVOA_L

ClientSampleId :

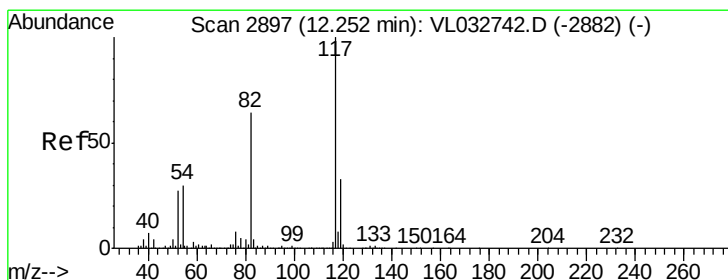
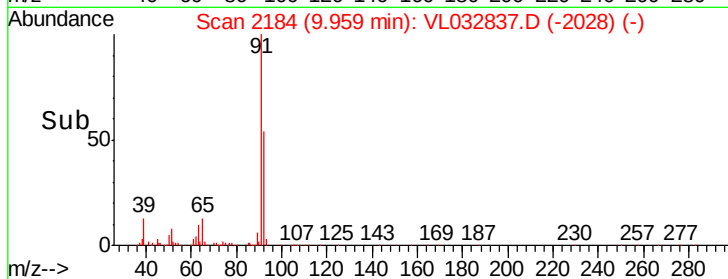
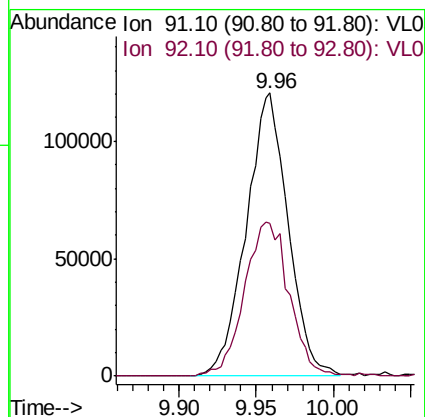
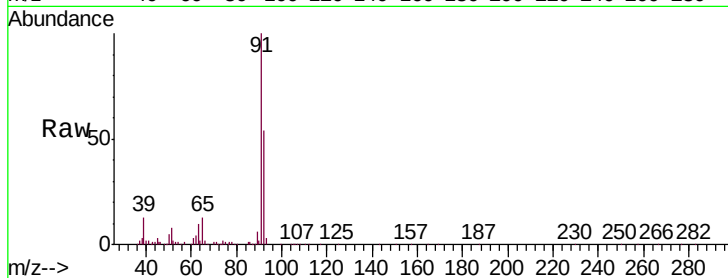
IAS-1DL

Tgt Ion: 91 Resp: 227314

Ion Ratio Lower Upper

91 100

92 58.2 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032837.D

Acq: 29 Nov 2018 16:41

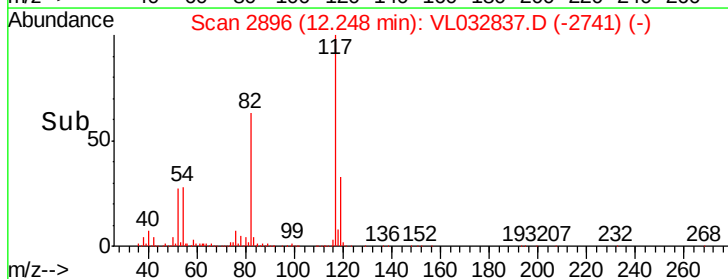
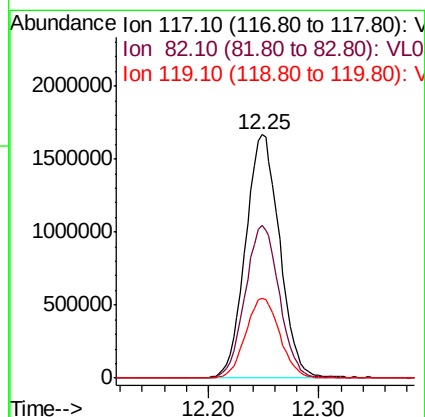
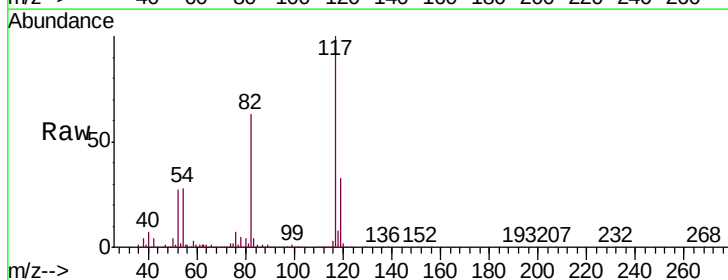
Tgt Ion: 117 Resp: 3564076

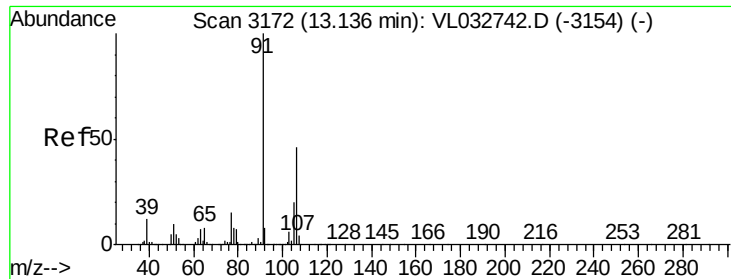
Ion Ratio Lower Upper

117 100

82 63.5 51.0 76.6

119 33.0 28.0 42.0

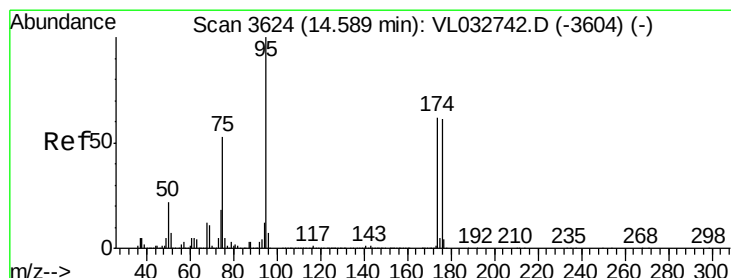
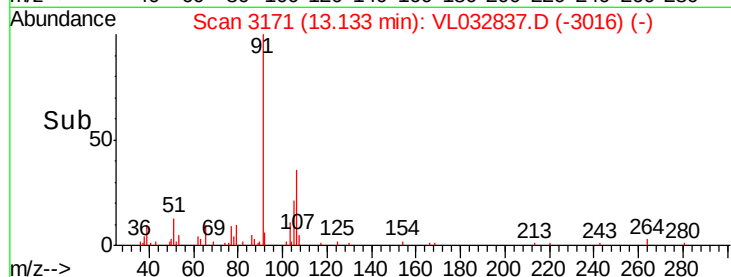
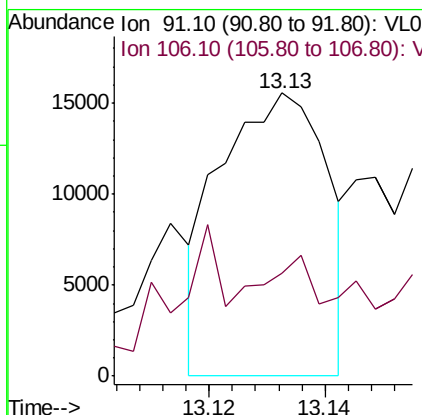
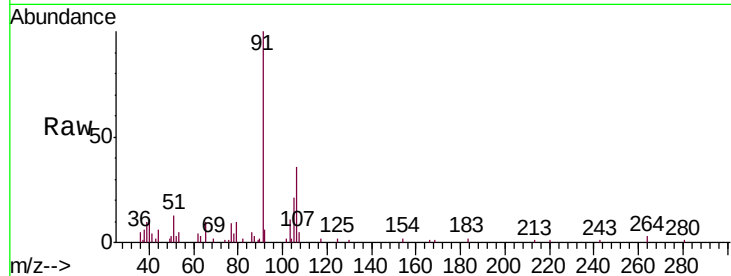




#59
m/p-Xylene
Concen: 0.052 ppbv
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL032837.D
Acq: 29 Nov 2018 16:41

Instrument :
MSVOA_L
ClientSampleId :
IAS-1DL

Tgt Ion: 91 Resp: 19973
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.263 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL032837.D
Acq: 29 Nov 2018 16:41

Tgt Ion: 95 Resp: 2735938
Ion Ratio Lower Upper
95 100
174 64.8 50.7 76.1
175 4.8 3.8 5.6

