

Data File : VL032841.D
Acq On : 29 Nov 2018 19:19
Operator : SY/AP
Sample : J6088-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IAS-2DL

Quant Time: Nov 30 06:25:35 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	1409129	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3555046	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3399958	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.59 95 2604247 10.24 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.40%

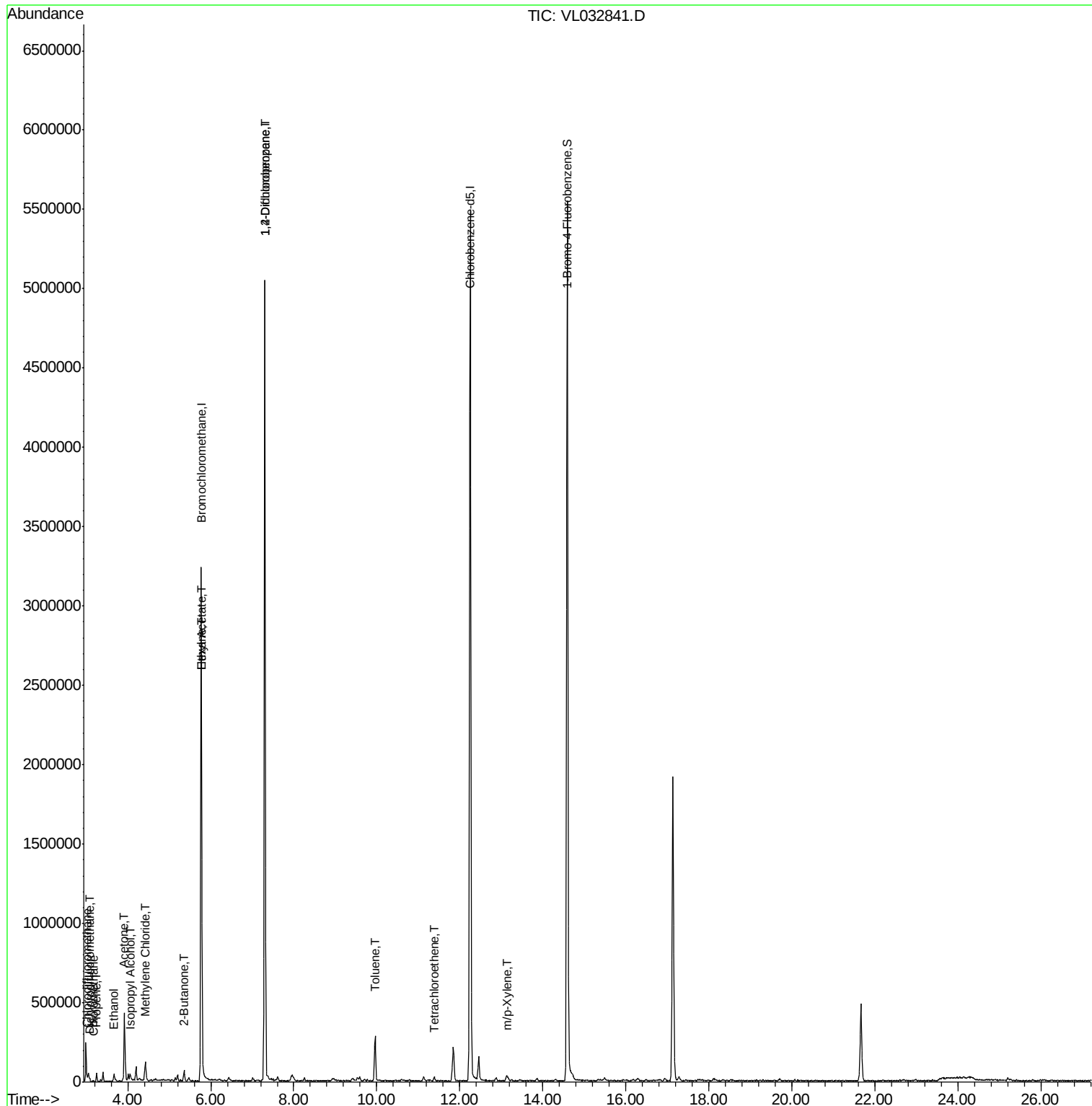
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	9626	0.048	ppbv	89
3) Chlorodifluoromethane	3.02	51	61321	0.549	ppbv #	90
4) Chloromethane	3.18	50	3446	0.056	ppbv	93
9) Propene	3.25	41	13757	0.308	ppbv	93
13) Ethanol	3.67	45	42491	2.902	ppbv	96
15) Acetone	3.92	43	396459	3.081	ppbv	99
19) Isopropyl Alcohol	4.05	45	14857	0.173	ppbv #	95
20) Methylene Chloride	4.42	84	39837	0.598	ppbv	94
25) Ethyl Acetate	5.79	43	33967	0.113	ppbv #	84
26) Hexane	5.79	57	42093	0.315	ppbv #	45
34) 2-Butanone	5.35	43	71044	0.385	ppbv	100
39) 1,2-Dichloropropane	7.30	63	882718	8.184	ppbv #	23
52) Tetrachloroethene	11.38	164	3594	0.036	ppbv #	61
53) Toluene	9.96	91	212788	0.720	ppbv	95
59) m/p-Xylene	13.13	91	13785	0.038	ppbv #	31

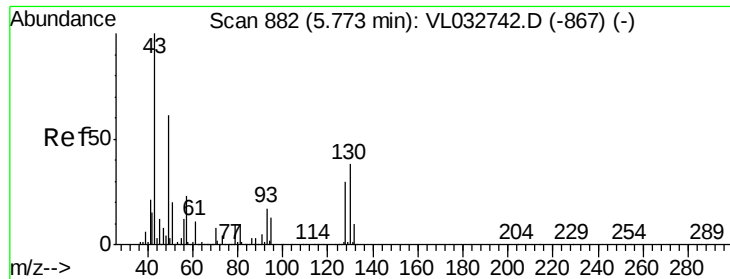
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

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Instrument :

MSVOA_L

ClientSampleId :

IAS-2DL

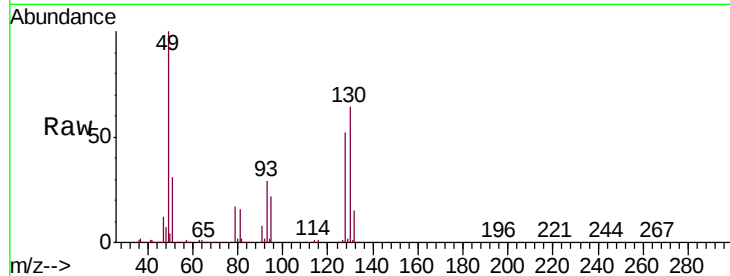
Tgt Ion: 49 Resp: 1409129

Ion Ratio Lower Upper

49 100

128 52.9 24.9 74.6

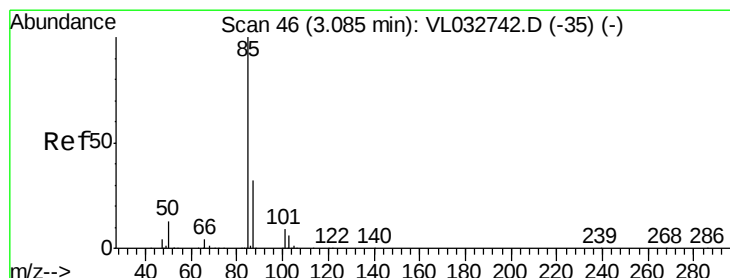
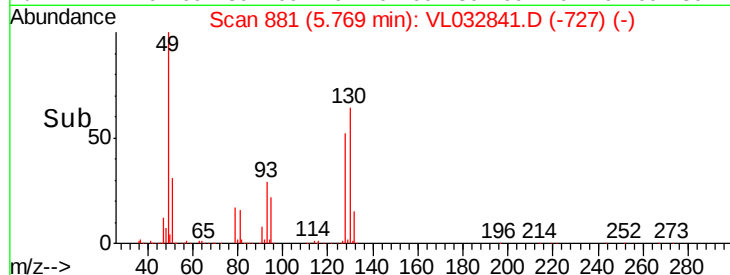
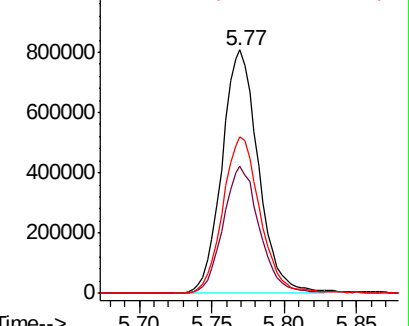
130 66.5 31.4 94.2



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: 0.048 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032841.D

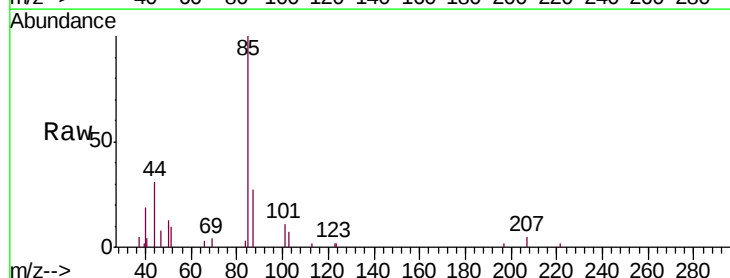
Acq: 29 Nov 2018 19:19

Tgt Ion: 85 Resp: 9626

Ion Ratio Lower Upper

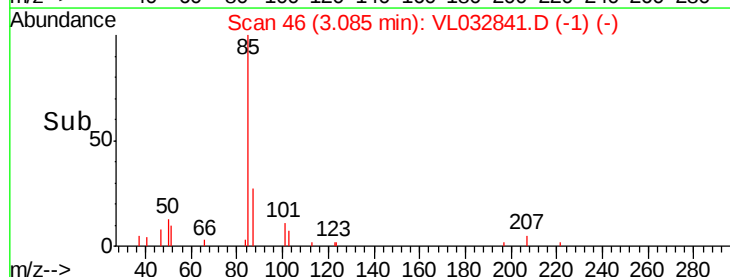
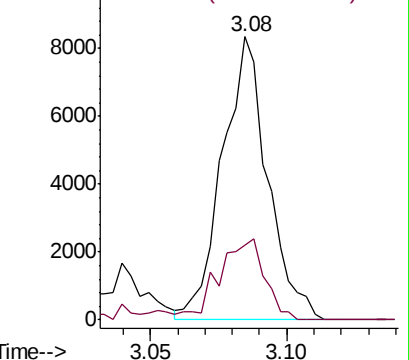
85 100

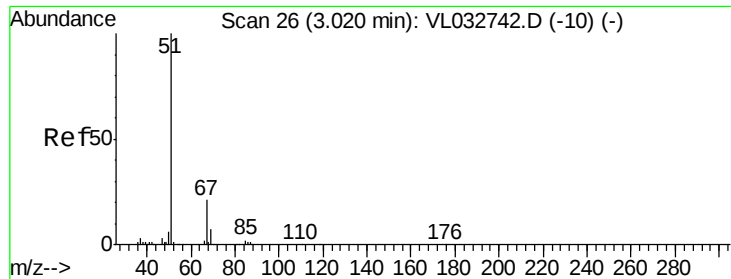
87 26.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.549 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032841.D

Acq: 29 Nov 2018 19:19

Instrument :

MSVOA_L

ClientSampleId :

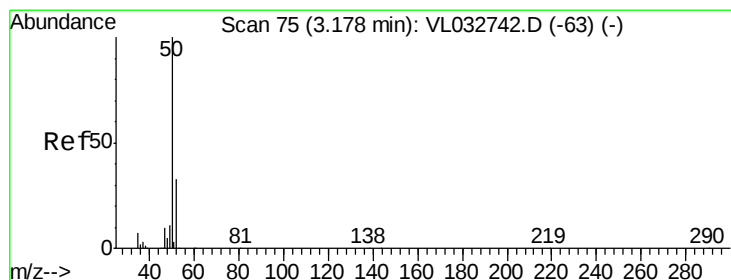
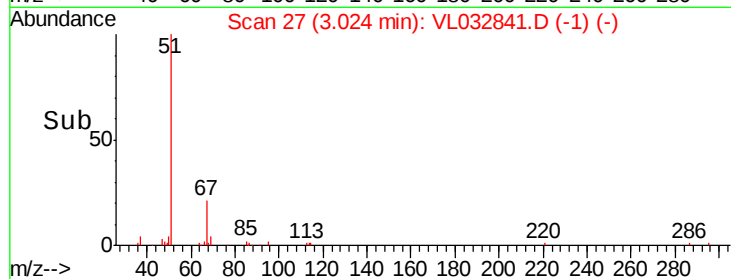
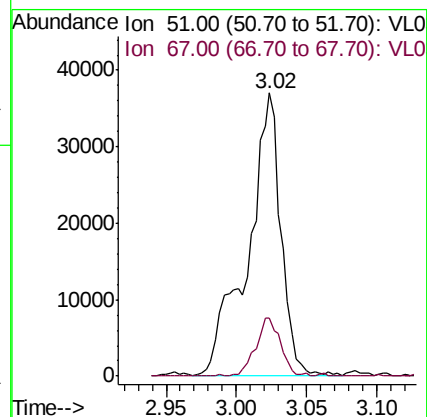
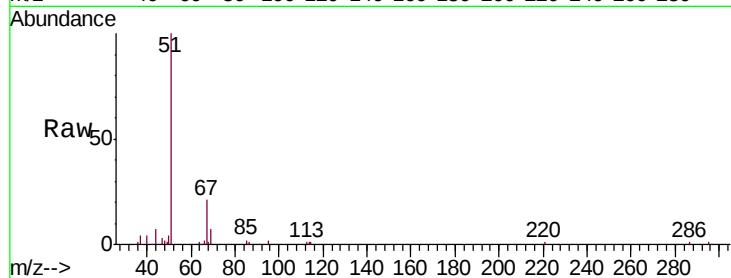
IAS-2DL

Tgt Ion: 51 Resp: 61321

Ion Ratio Lower Upper

51 100

67 15.6 16.1 24.1#



#4

Chloromethane

Concen: 0.056 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032841.D

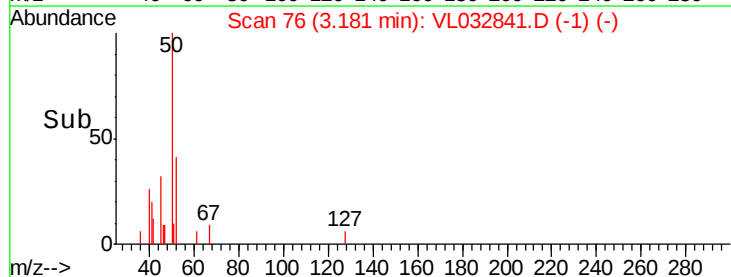
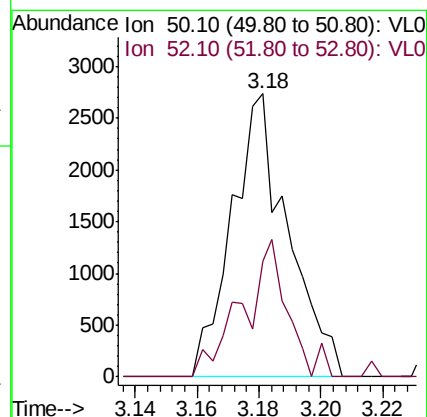
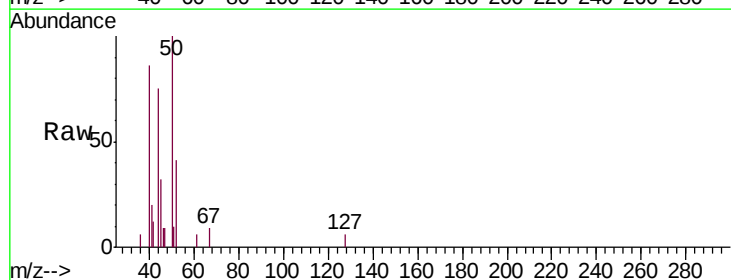
Acq: 29 Nov 2018 19:19

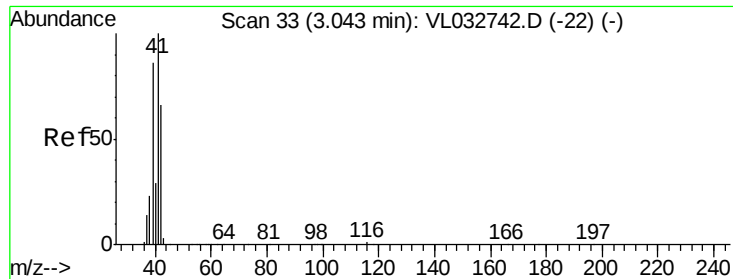
Tgt Ion: 50 Resp: 3446

Ion Ratio Lower Upper

50 100

52 37.1 26.6 40.0





#9

Propene

Concen: 0.308 ppbv

RT: 3.25 min Scan# 97

Delta R.T. 0.21 min

Lab File: VL032841.D

Acq: 29 Nov 2018 19:19

Instrument :

MSVOA_L

ClientSampleId :

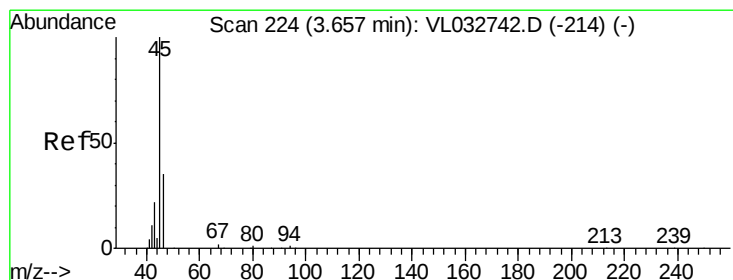
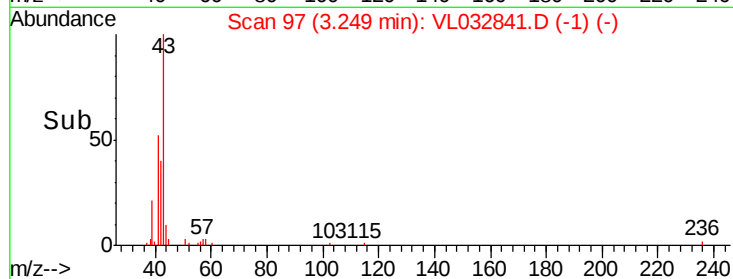
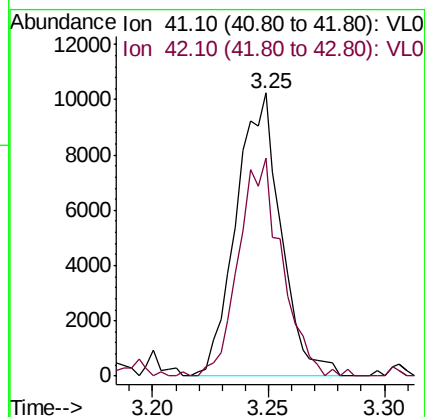
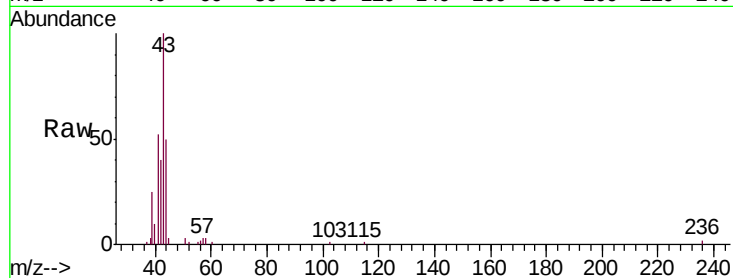
IAS-2DL

Tgt Ion: 41 Resp: 13757

Ion Ratio Lower Upper

41 100

42 74.1 55.0 82.6



#13

Ethanol

Concen: 2.902 ppbv

RT: 3.67 min Scan# 229

Delta R.T. 0.02 min

Lab File: VL032841.D

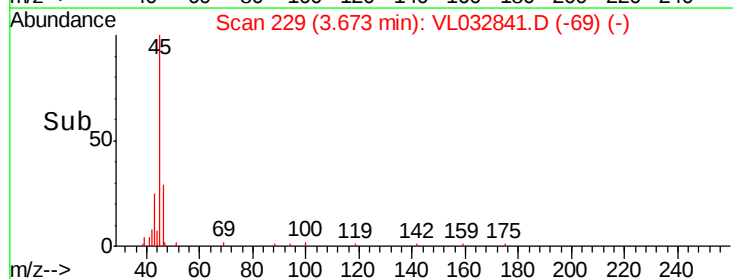
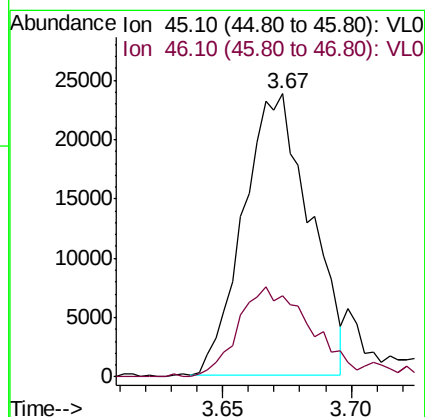
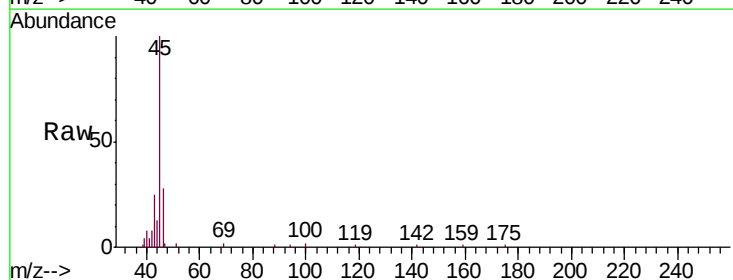
Acq: 29 Nov 2018 19:19

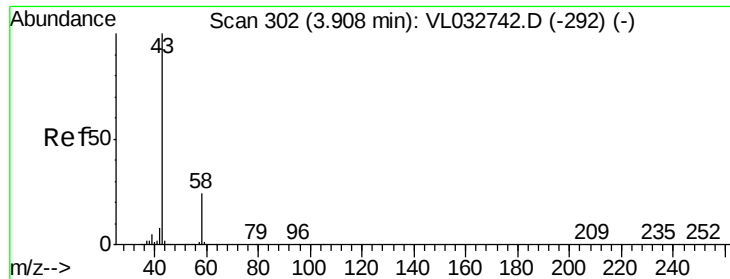
Tgt Ion: 45 Resp: 42491

Ion Ratio Lower Upper

45 100

46 38.4 14.5 57.9





#15

Acetone

Concen: 3.081 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL032841.D

Acq: 29 Nov 2018 19:19

Instrument :

MSVOA_L

ClientSampleId :

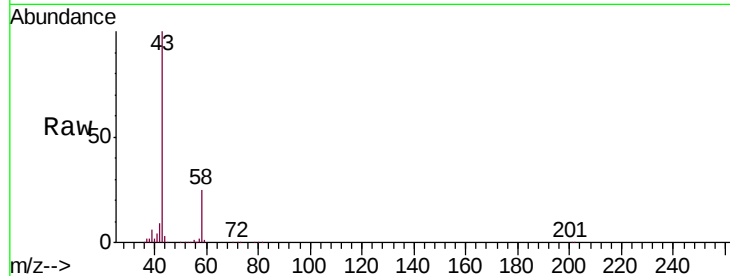
IAS-2DL

Tgt Ion: 43 Resp: 396459

Ion Ratio Lower Upper

43 100

58 25.8 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.92

300000

250000

200000

150000

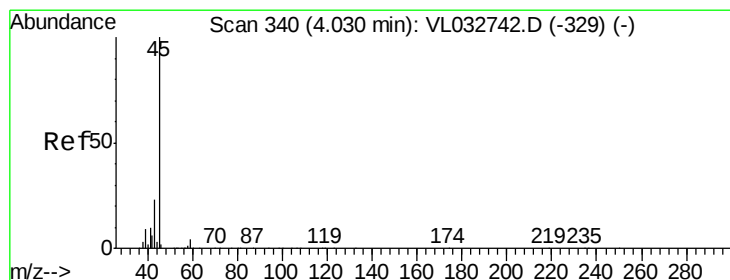
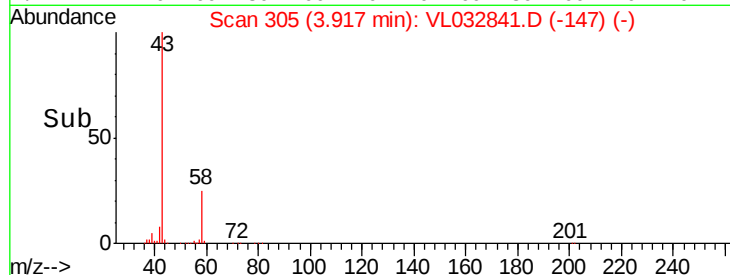
100000

50000

0

Time-->

3.85 3.90 3.95



#19

Isopropyl Alcohol

Concen: 0.173 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.02 min

Lab File: VL032841.D

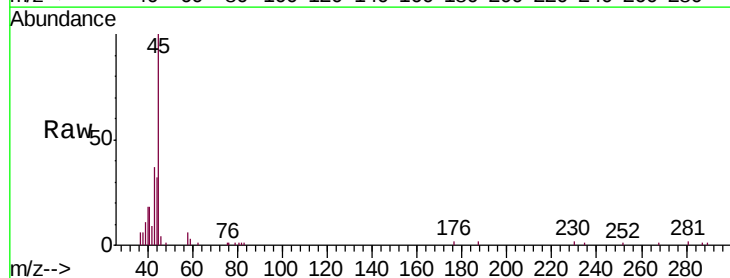
Acq: 29 Nov 2018 19:19

Tgt Ion: 45 Resp: 14857

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

25000

20000

15000

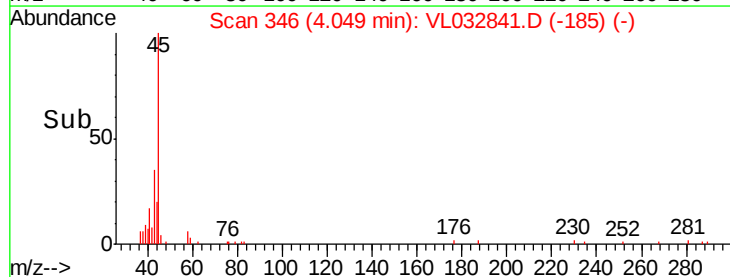
10000

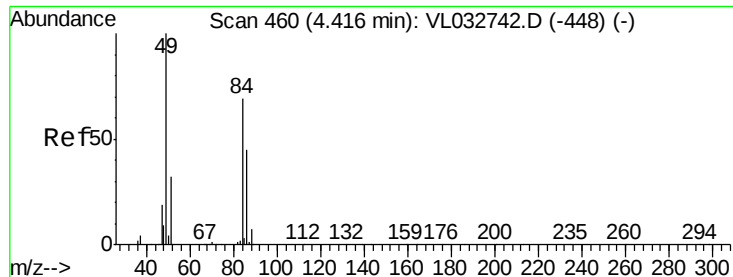
5000

0

Time-->

4.02 4.04 4.06





#20

Methylene Chloride

Concen: 0.598 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032841.D

Acq: 29 Nov 2018 19:19

Instrument :

MSVOA_L

ClientSampleId :

IAS-2DL

Tgt Ion: 84 Resp: 39837

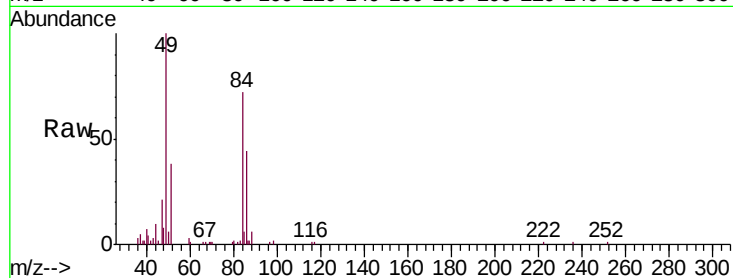
Ion Ratio Lower Upper

84 100

49 137.6 115.8 173.6

51 51.6 36.9 55.3

86 61.3 52.4 78.6

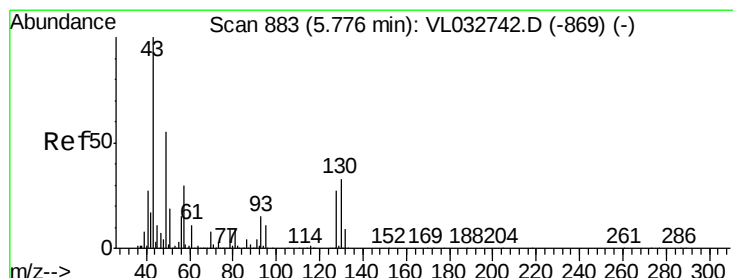
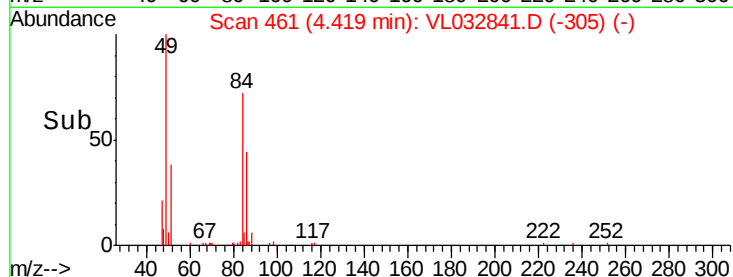
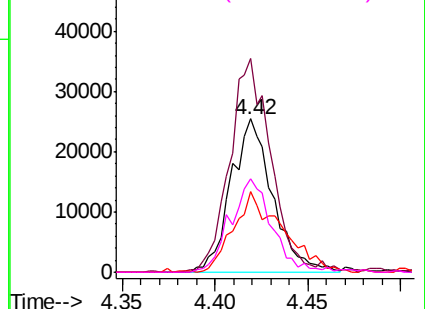


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25

Ethyl Acetate

Concen: 0.113 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.01 min

Lab File: VL032841.D

Acq: 29 Nov 2018 19:19

Tgt Ion: 43 Resp: 33967

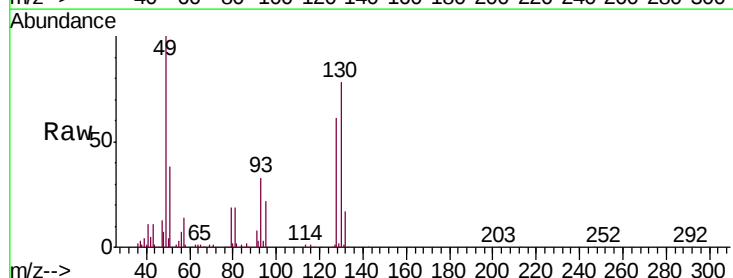
Ion Ratio Lower Upper

43 100

45 2.9 7.9 11.9#

61 2.1 7.8 11.6#

70 5.1 5.8 8.6#

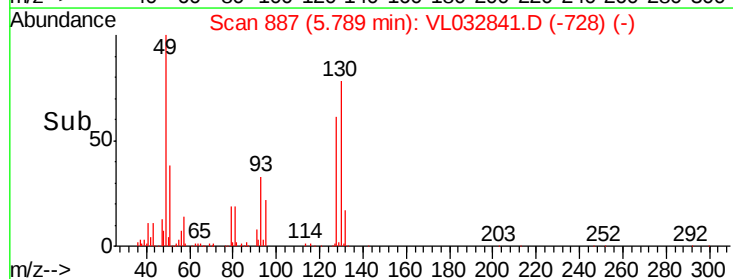
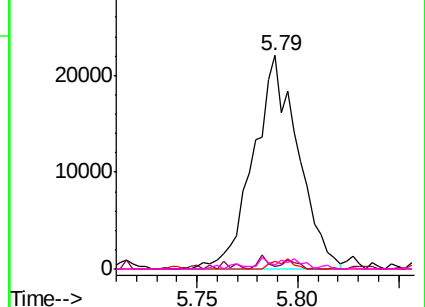


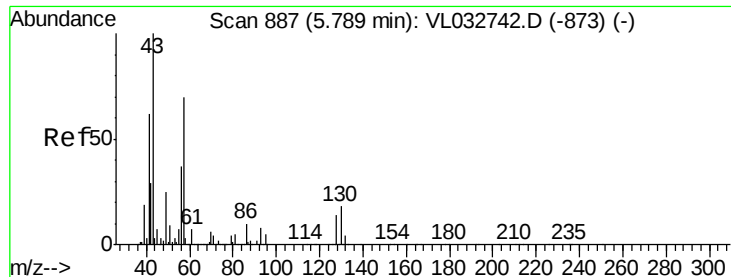
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

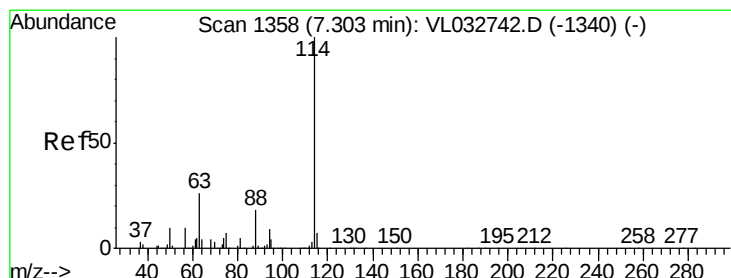
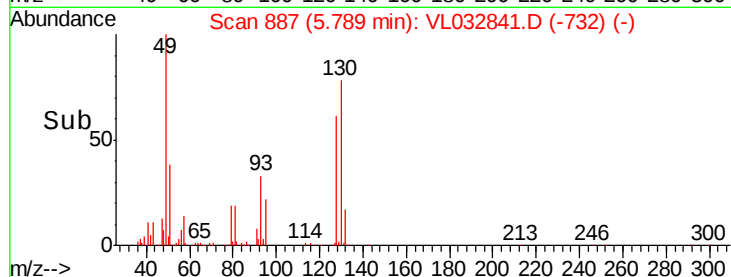
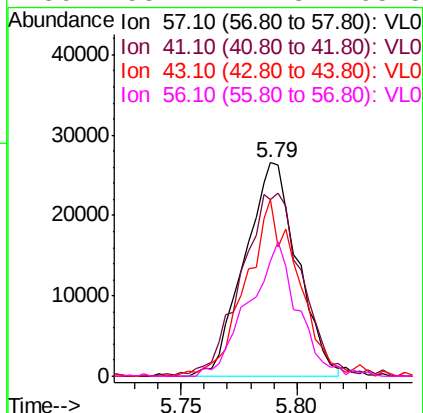
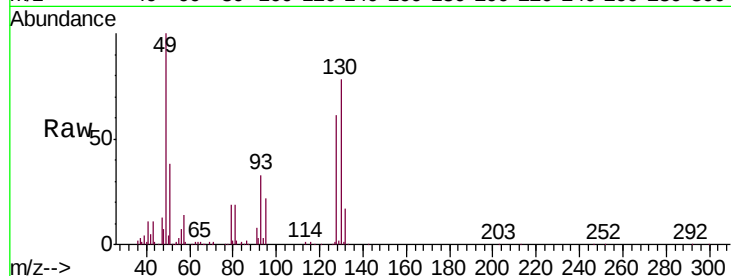




#26
Hexane
Concen: 0.315 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032841.D
Acq: 29 Nov 2018 19:19

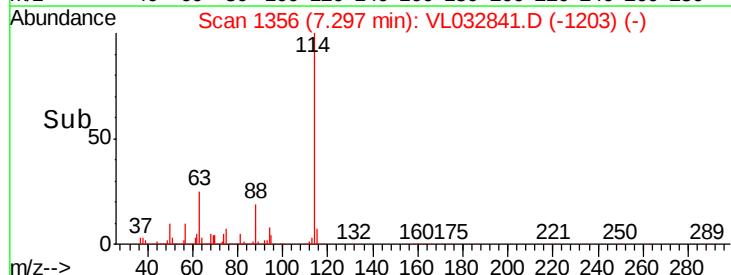
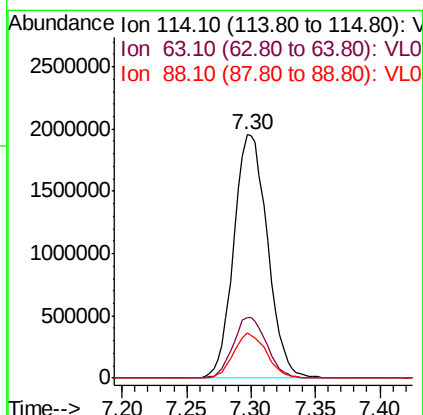
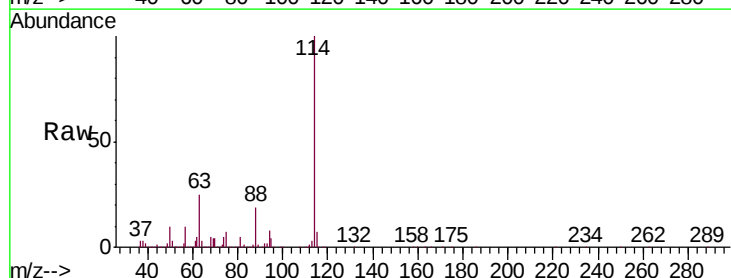
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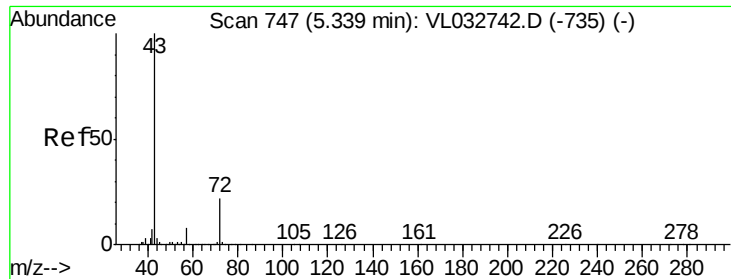
Tgt Ion: 57 Resp: 42093
Ion Ratio Lower Upper
57 100
41 98.5 70.3 105.5
43 83.8 174.0 261.0#
56 58.7 42.3 63.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VL032841.D
Acq: 29 Nov 2018 19:19

Tgt Ion: 114 Resp: 3555046
Ion Ratio Lower Upper
114 100
63 24.9 20.9 31.3
88 18.0 14.4 21.6

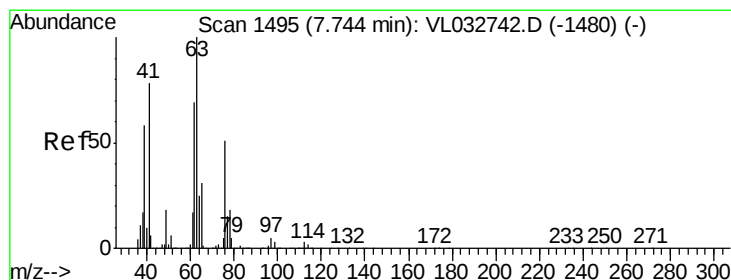
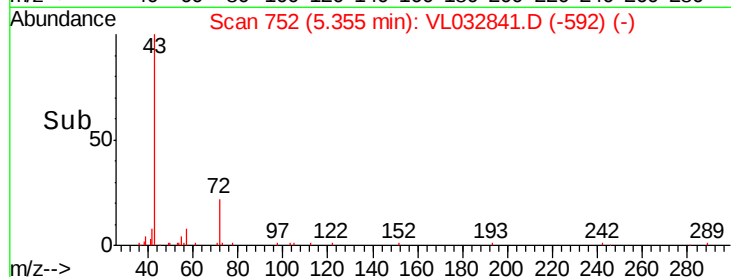
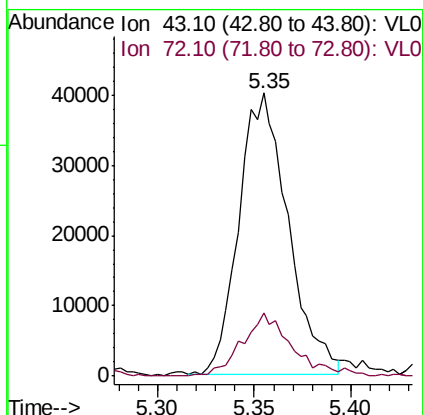
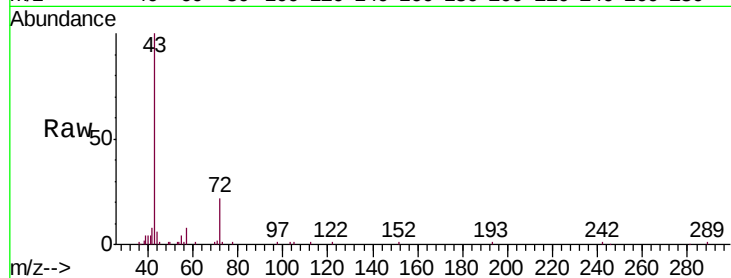




#34
2-Butanone
Concen: 0.385 ppbv
RT: 5.35 min Scan# 752
Delta R.T. 0.02 min
Lab File: VL032841.D
Acq: 29 Nov 2018 19:19

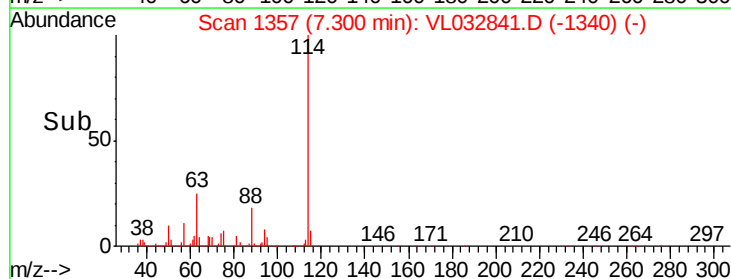
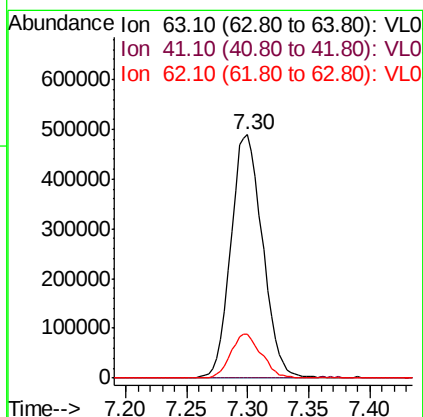
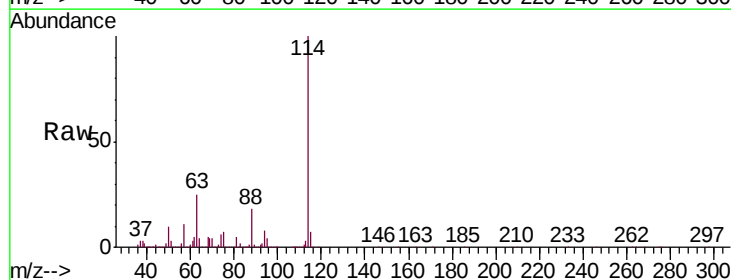
Instrument :
MSVOA_L
ClientSampleId :
IAS-2DL

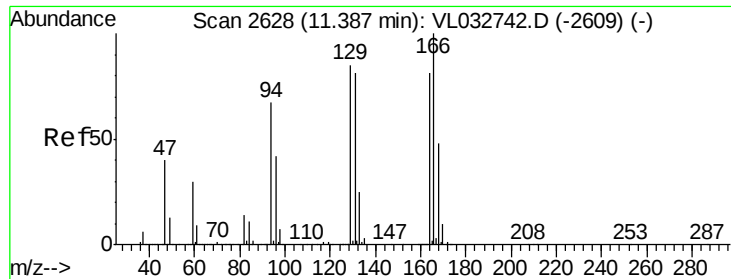
Tgt Ion: 43 Resp: 71044
Ion Ratio Lower Upper
43 100
72 22.9 18.4 27.6



#39
1,2-Dichloropropane
Concen: 8.184 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. -0.44 min
Lab File: VL032841.D
Acq: 29 Nov 2018 19:19

Tgt Ion: 63 Resp: 882718
Ion Ratio Lower Upper
63 100
41 0.0 62.0 93.0#
62 18.2 55.4 83.2#





#52

Tetrachloroethene

Concen: 0.036 ppbv

RT: 11.38 min Scan# 2627

Delta R.T. -0.00 min

Lab File: VL032841.D

Acq: 29 Nov 2018 19:19

Instrument :

MSVOA_L

ClientSampleId :

IAS-2DL

Tgt Ion:164 Resp: 3594

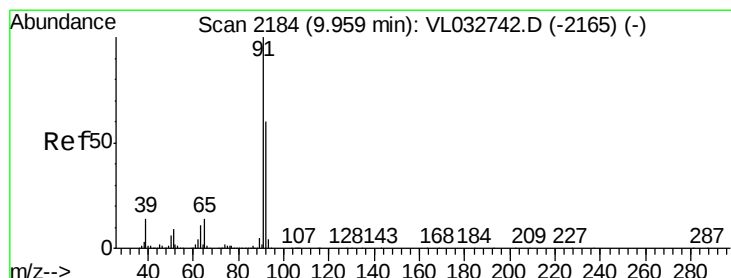
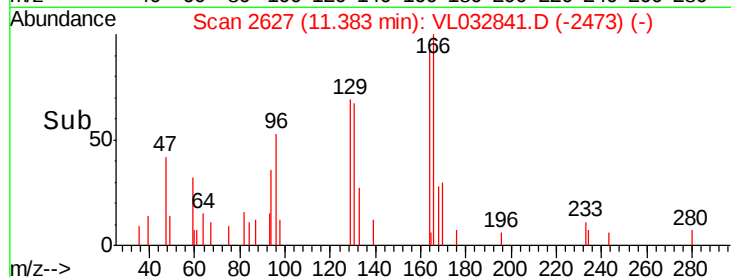
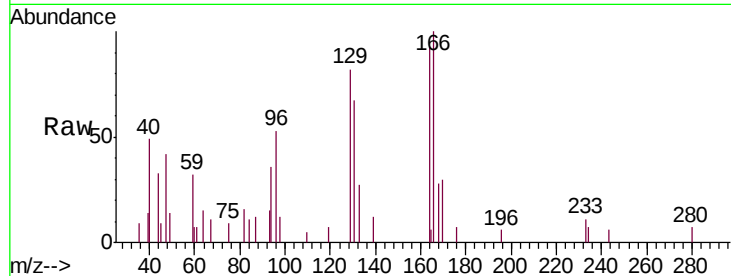
Ion Ratio Lower Upper

164 100

166 99.1 99.3 148.9#

129 64.8 83.9 125.9#

131 39.5 80.8 121.2#



#53

Toluene

Concen: 0.720 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032841.D

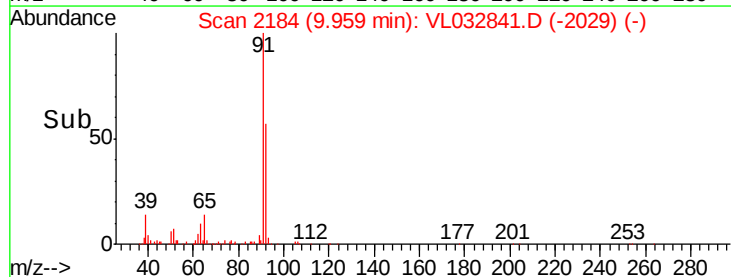
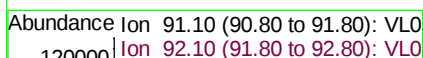
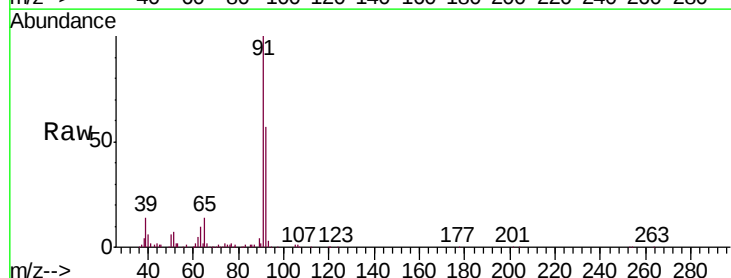
Acq: 29 Nov 2018 19:19

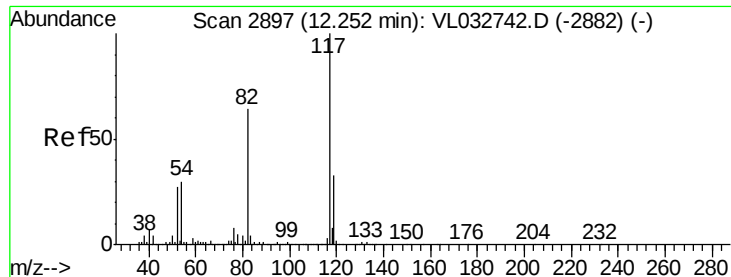
Tgt Ion: 91 Resp: 212788

Ion Ratio Lower Upper

91 100

92 56.3 47.9 71.9

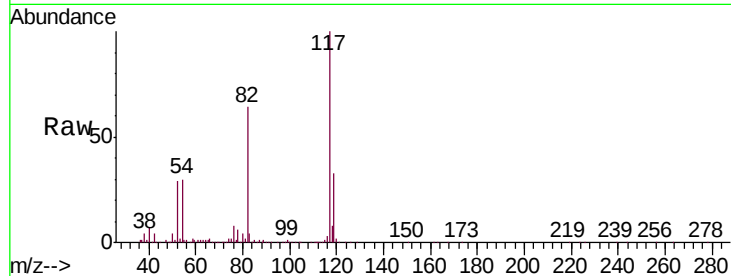




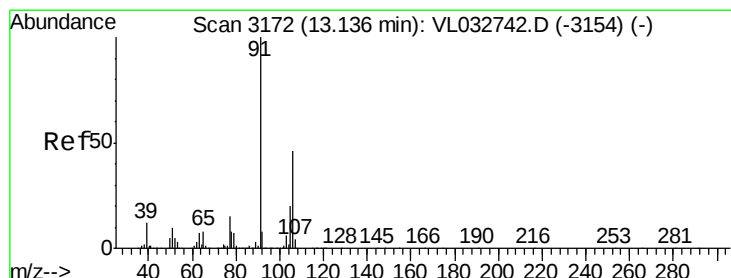
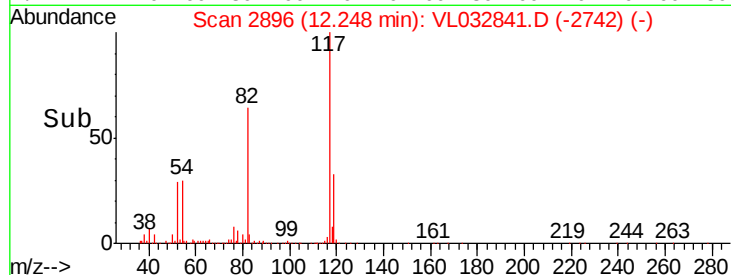
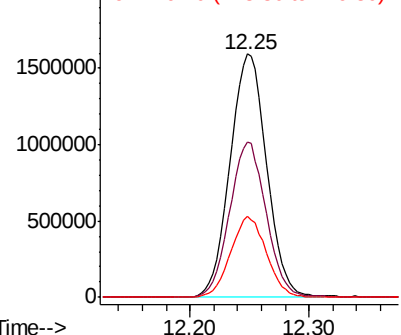
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032841.D
Acq: 29 Nov 2018 19:19

Instrument :
MSVOA_L
ClientSampleId :
IAS-2DL

Tgt Ion: 117 Resp: 3399958
Ion Ratio Lower Upper
117 100
82 63.8 51.0 76.6
119 32.5 28.0 42.0

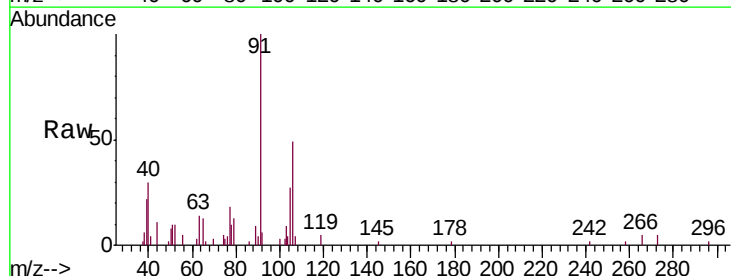


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

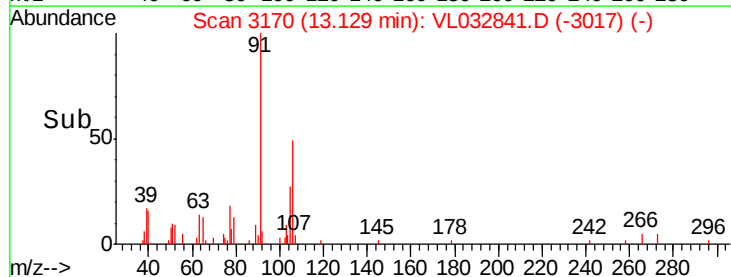
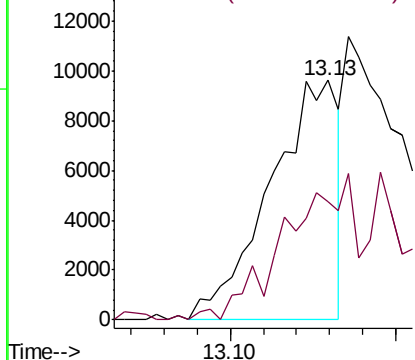


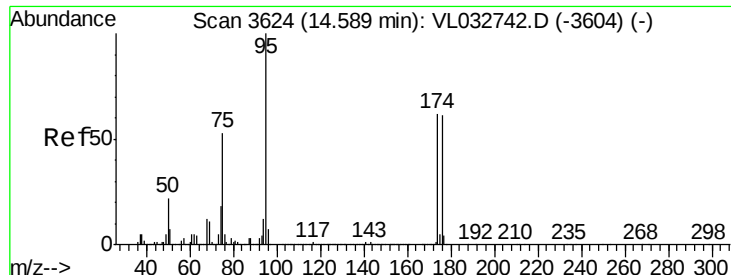
#59
m/p-Xylene
Concen: 0.038 ppbv
RT: 13.13 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL032841.D
Acq: 29 Nov 2018 19:19

Tgt Ion: 91 Resp: 13785
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.241 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032841.D

Acq: 29 Nov 2018 19:19

Instrument :

MSVOA_L

ClientSampleId :

IAS-2DL

Tgt Ion: 95 Resp: 2604247

Ion Ratio Lower Upper

95 100

174 66.0 50.7 76.1

175 4.7 3.8 5.6

