

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026188.D
 Acq On : 9 Oct 2015 22:54
 Operator : SY/MD
 Sample : G3973-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

Quant Time: Oct 10 06:10:26 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 16:23:14 2015
 QLast Update : Fri Oct 09 16:23:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.66	49	776595	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.33	114	2222443	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.76	117	2515107	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.30	95	1973524	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

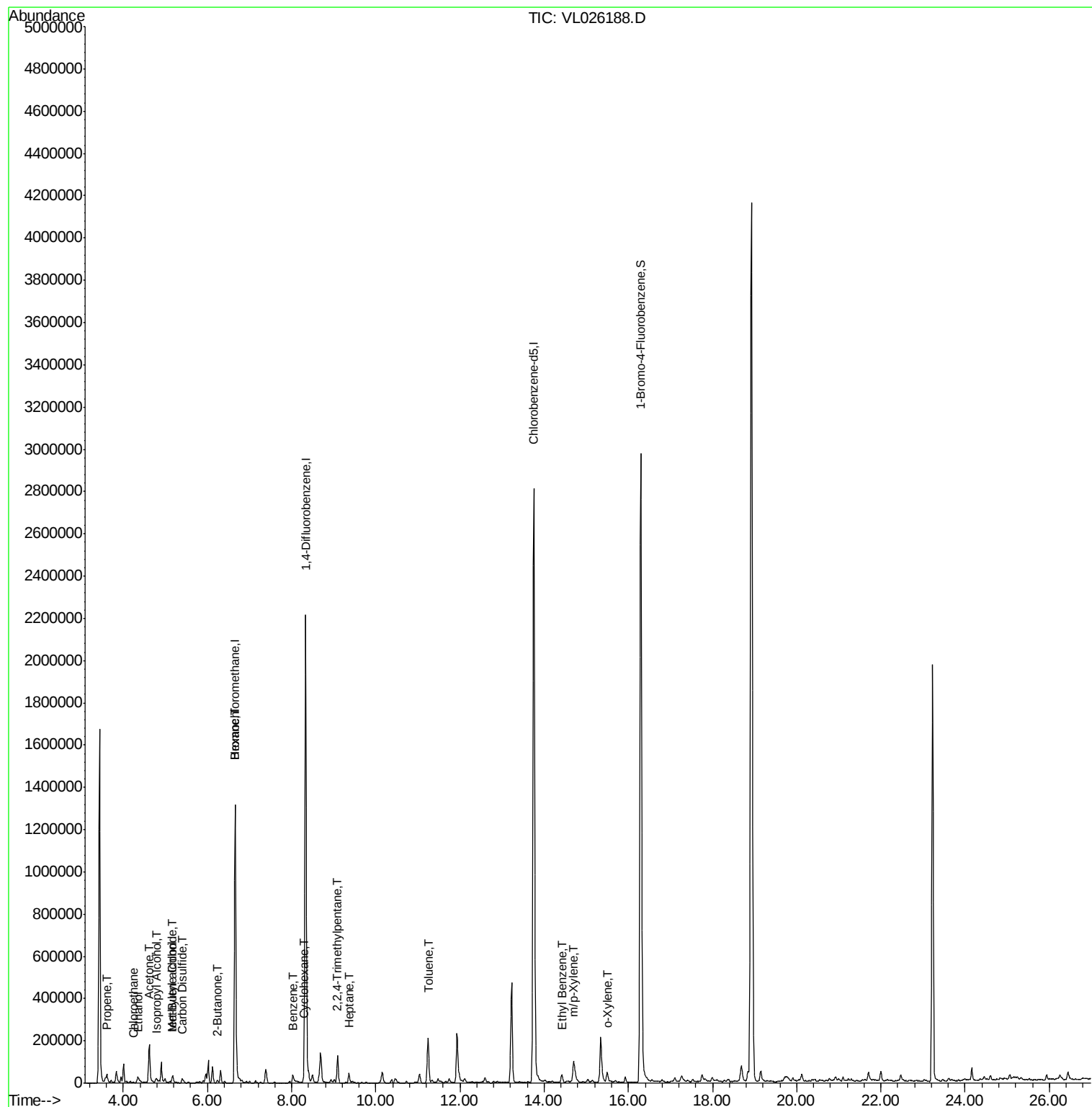
Target Compounds						Ovalue
7) Chloroethane	4.25	64	2355	0.11	ppbv	97
9) Propene	3.61	41	14506	0.35	ppbv #	80
10) Heptane	9.36	43	26041	0.18	ppbv	96
13) Ethanol	4.35	45	41890	6.84	ppbv	98
15) Acetone	4.62	43	191469	1.91	ppbv	98
17) tert-Butyl alcohol	5.18	59	12165	0.20	ppbv #	94
19) Isopropyl Alcohol	4.79	45	30304	0.78	ppbv #	94
20) Methylene Chloride	5.15	84	8226	0.19	ppbv	91
26) Hexane	6.67	57	39025	0.42	ppbv #	52
27) Carbon Disulfide	5.40	76	30746	0.27	ppbv #	87
30) Cyclohexane	8.29	84	14979	0.17	ppbv #	1
34) 2-Butanone	6.23	43	20405	0.16	ppbv	95
36) Benzene	8.03	78	35803	0.17	ppbv	95
44) 2,2,4-Trimethylpentane	9.09	57	138411	0.39	ppbv #	89
53) Toluene	11.24	91	197793	0.72	ppbv	98
58) Ethyl Benzene	14.43	91	46759	0.13	ppbv	98
59) m/p-Xylene	14.70	91	123188	0.42	ppbv	97
60) o-Xylene	15.51	91	46581	0.15	ppbv	98

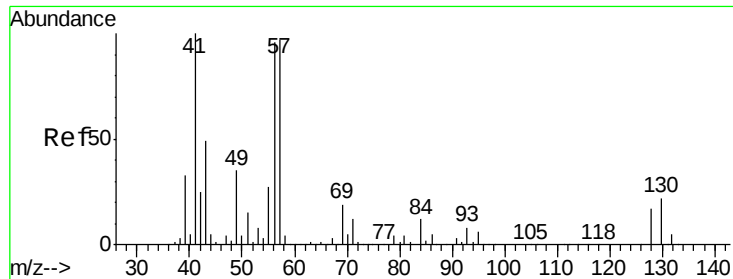
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 09 16:23:14 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.66 min Scan# 586

Delta R.T. 0.00 min

Lab File: VL026188.D

Acq: 9 Oct 2015 22:54

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

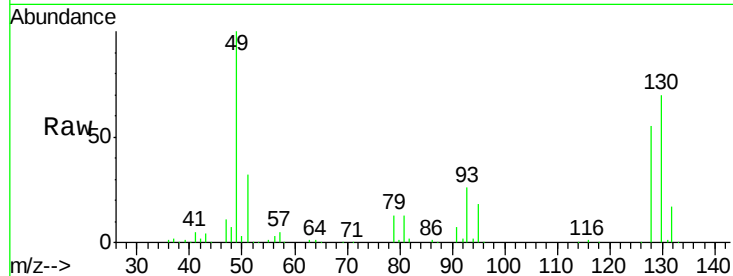
Tot Ion: 49 Resp: 776595

Ion Ratio Lower Upper

49 100

128 54.8 26.3 78.8

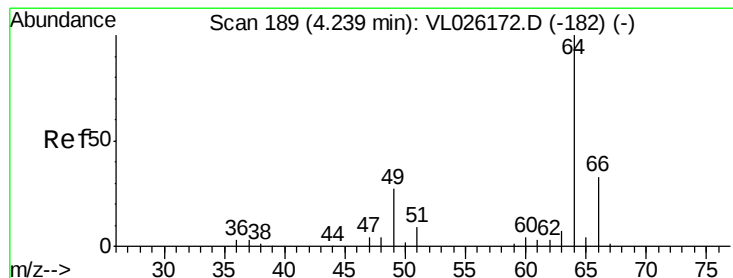
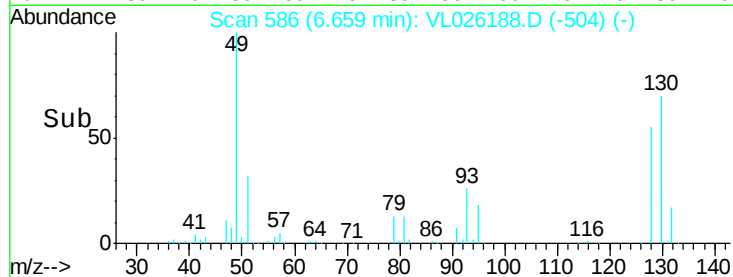
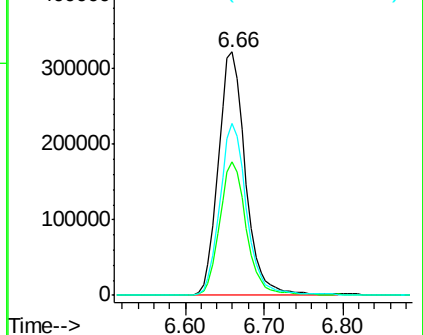
130 70.4 34.2 102.5



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



#7

Chloroethane

Concen: 0.11 ppbv

RT: 4.25 min Scan# 190

Delta R.T. 0.01 min

Lab File: VL026188.D

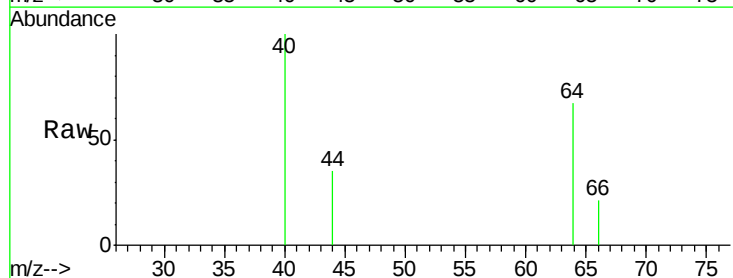
Acq: 9 Oct 2015 22:54

Tgt Ion: 64 Resp: 2355

Ion Ratio Lower Upper

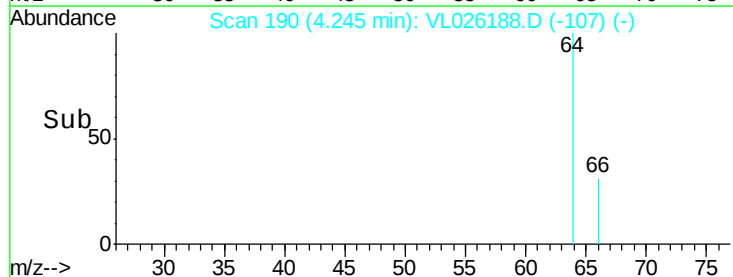
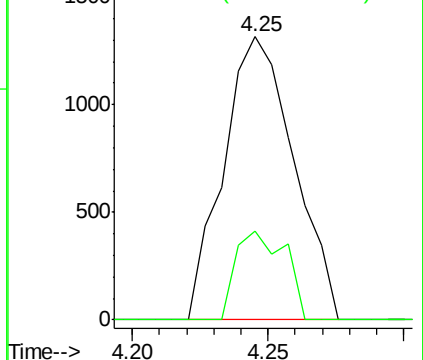
64 100

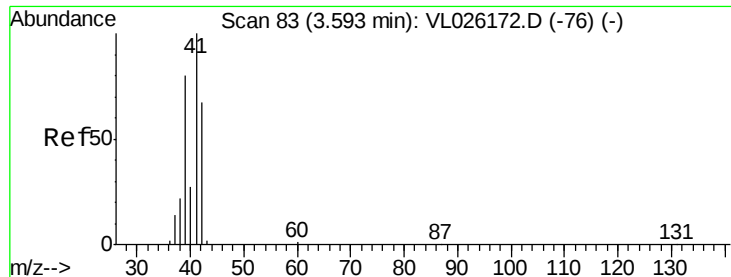
66 31.5 26.5 39.7



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 0.35 ppbv

RT: 3.61 min Scan# 86

Delta R.T. 0.02 min

Lab File: VL026188.D

Acq: 9 Oct 2015 22:54

Instrument :

MSVOA_L

ClientSampleId :

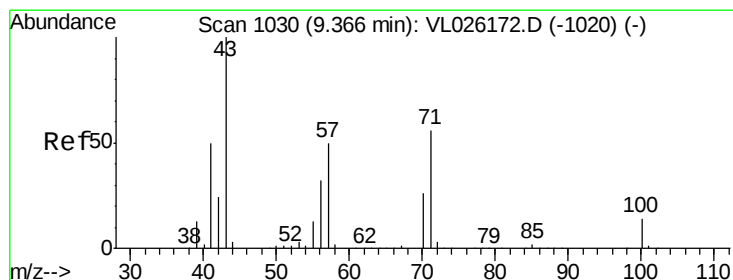
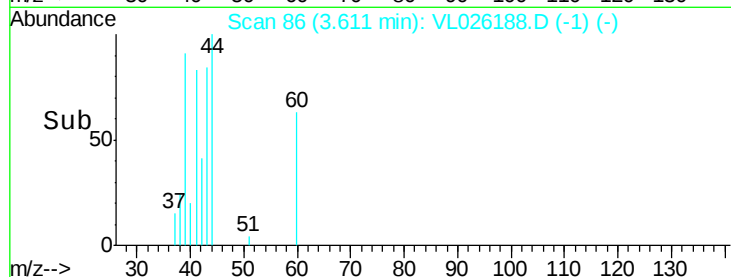
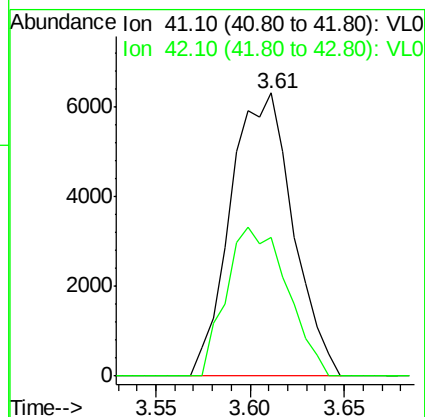
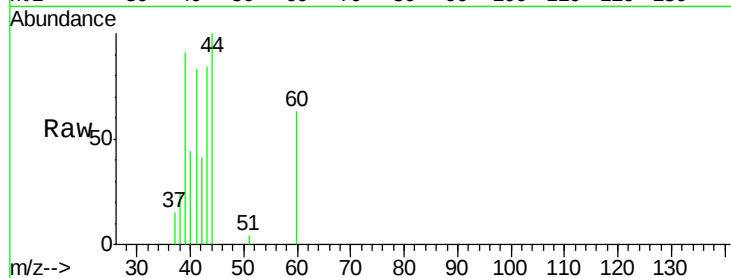
SS-2DL

Tot Ion: 41 Resp: 14506

Ion Ratio Lower Upper

41 100

42 51.2 53.6 80.4#



#10

Heptane

Concen: 0.18 ppbv

RT: 9.36 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VL026188.D

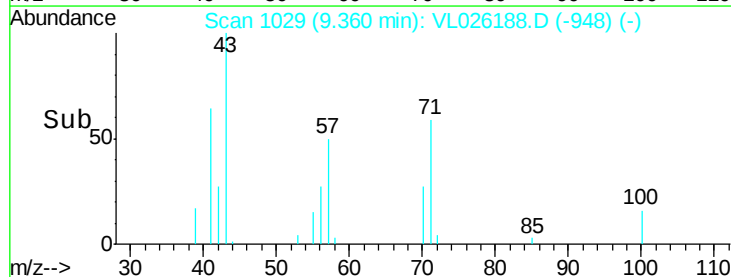
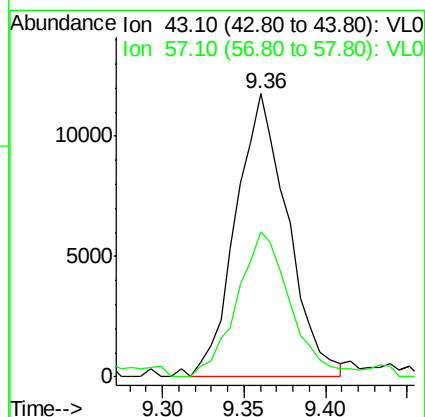
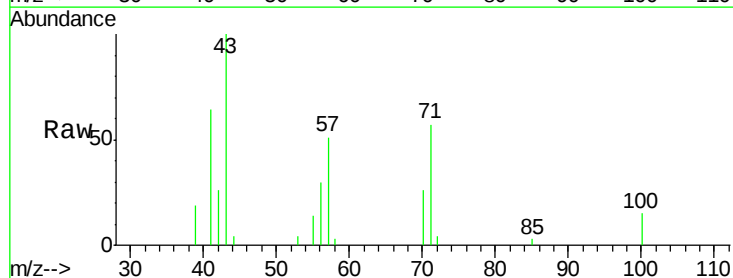
Acq: 9 Oct 2015 22:54

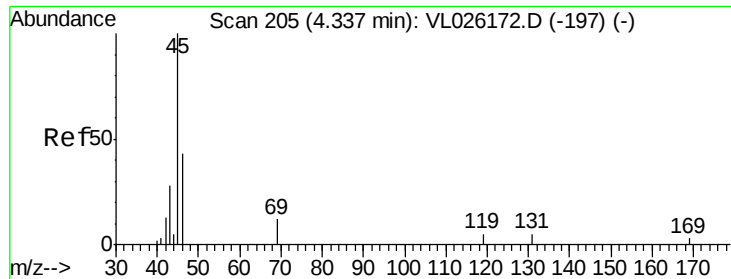
Tgt Ion: 43 Resp: 26041

Ion Ratio Lower Upper

43 100

57 54.9 41.8 62.8





#13

Ethanol

Concen: 6.84 ppbv

RT: 4.35 min Scan# 207

Delta R.T. 0.01 min

Lab File: VL026188.D

Acq: 9 Oct 2015 22:54

Instrument :

MSVOA_L

ClientSampleId :

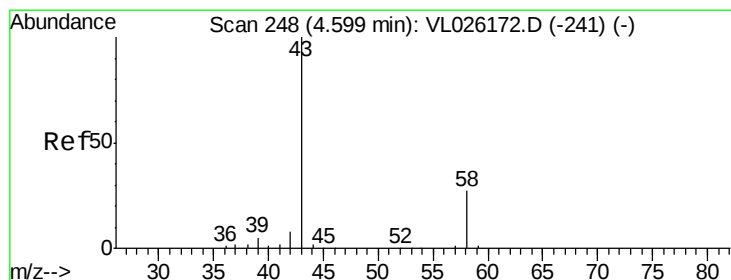
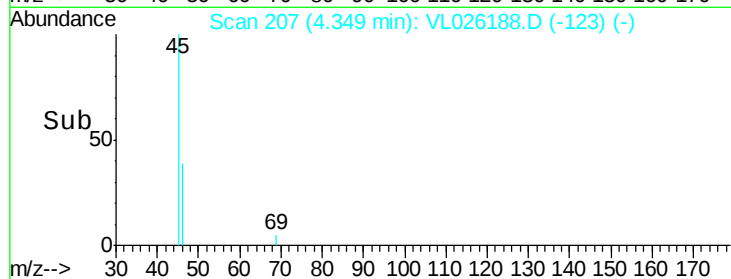
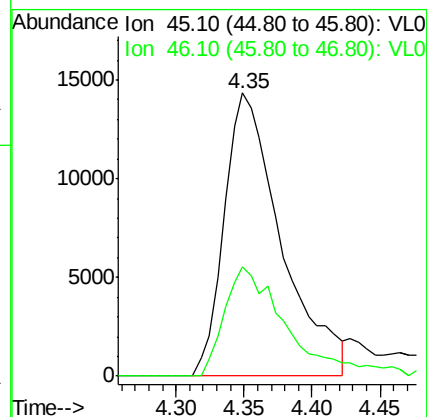
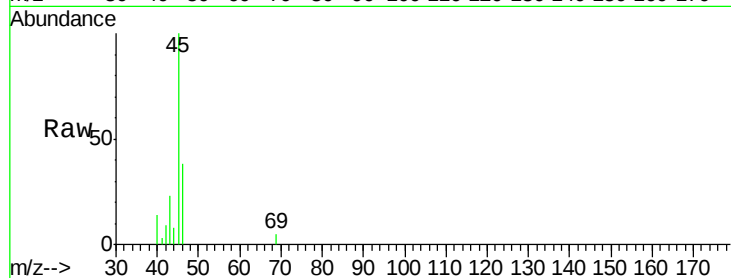
SS-2DL

Tot Ion: 45 Resp: 41890

Ion Ratio Lower Upper

45 100

46 44.1 18.1 72.5



#15

Acetone

Concen: 1.91 ppbv

RT: 4.62 min Scan# 252

Delta R.T. 0.02 min

Lab File: VL026188.D

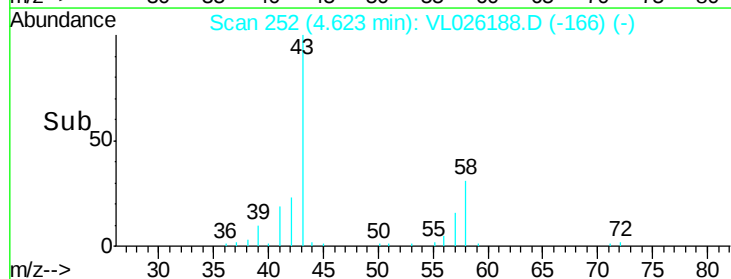
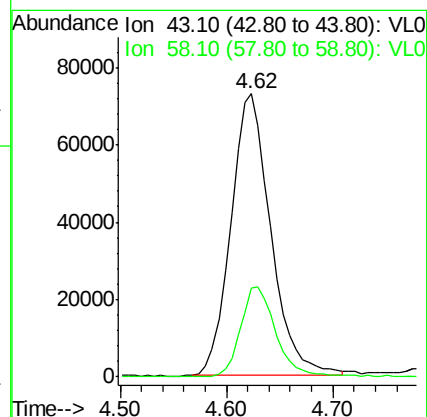
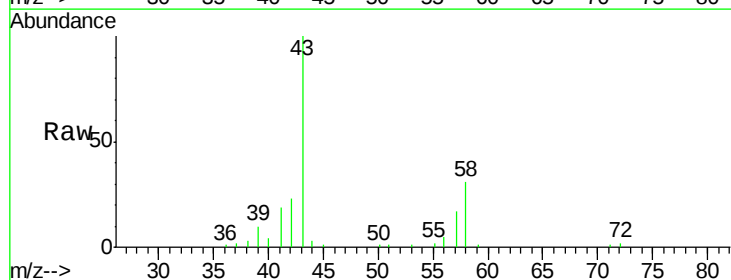
Acq: 9 Oct 2015 22:54

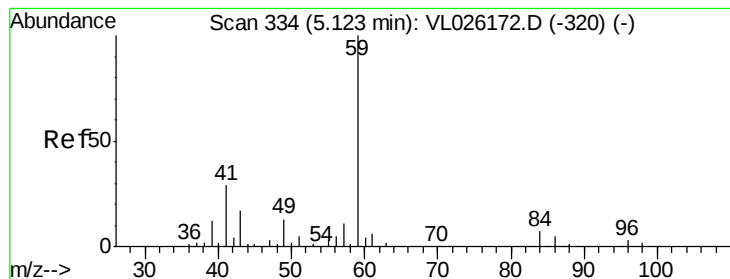
Tgt Ion: 43 Resp: 191469

Ion Ratio Lower Upper

43 100

58 28.6 22.0 33.0



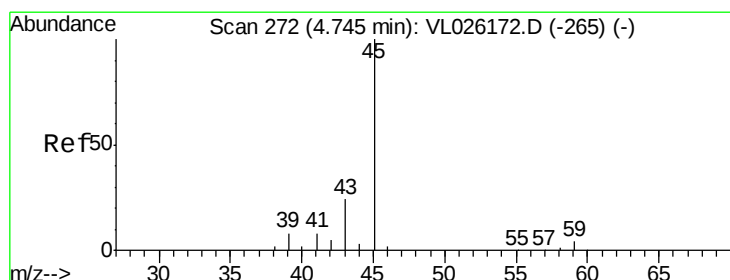
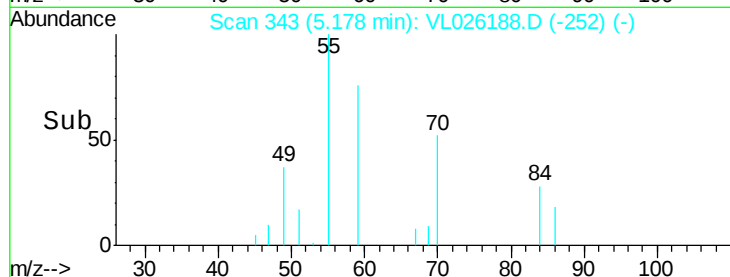
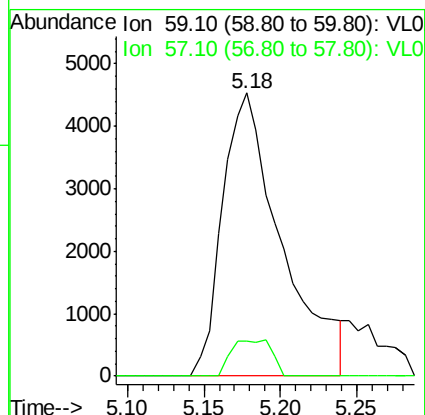
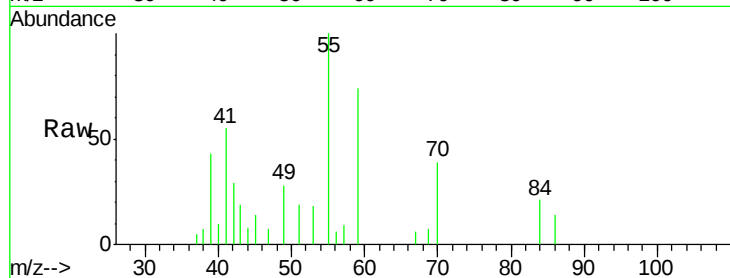


#17

tert-Butyl alcohol
Concen: 0.20 ppbv
RT: 5.18 min Scan# 343
Delta R.T. 0.05 min
Lab File: VL026188.D
Acq: 9 Oct 2015 22:54

Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

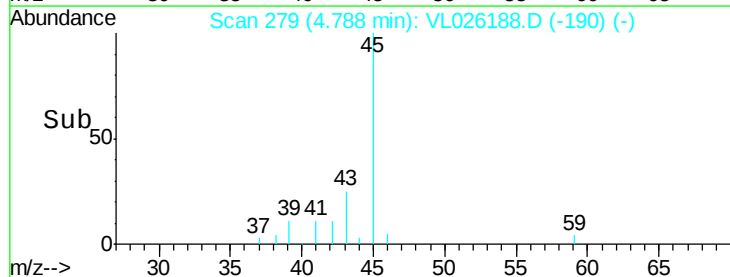
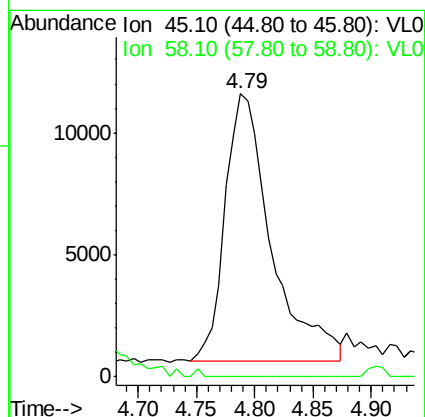
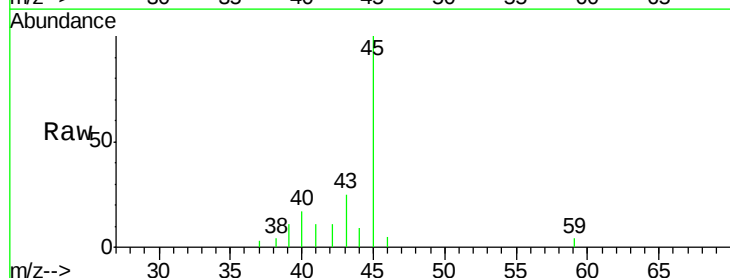
Tot Ion: 59 Resp: 12165
Ion Ratio Lower Upper
59 100
57 8.6 8.8 13.2#

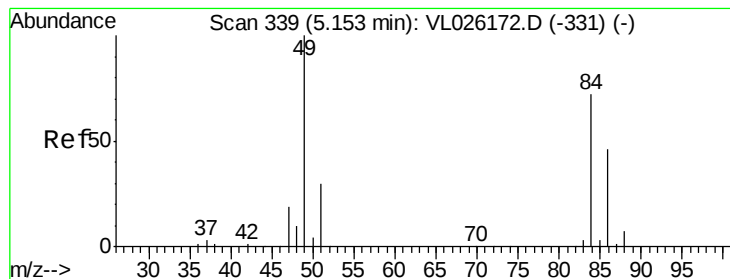


#19

Isopropyl Alcohol
Concen: 0.78 ppbv
RT: 4.79 min Scan# 279
Delta R.T. 0.04 min
Lab File: VL026188.D
Acq: 9 Oct 2015 22:54

Tgt Ion: 45 Resp: 30304
Ion Ratio Lower Upper
45 100
58 0.0 1.7 2.5#





#20

Methvlene Chloride

Concen: 0.19 ppbv

RT: 5.15 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL026188.D

Acq: 9 Oct 2015 22:54

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

Tot Ion: 84 Resp: 8226

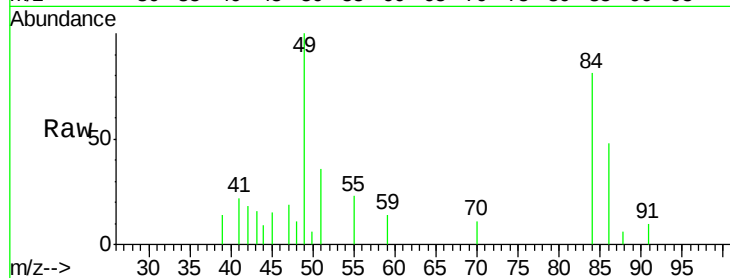
Ion Ratio Lower Upper

84 100

49 124.2 111.3 166.9

51 44.2 33.0 49.6

86 59.6 51.6 77.4

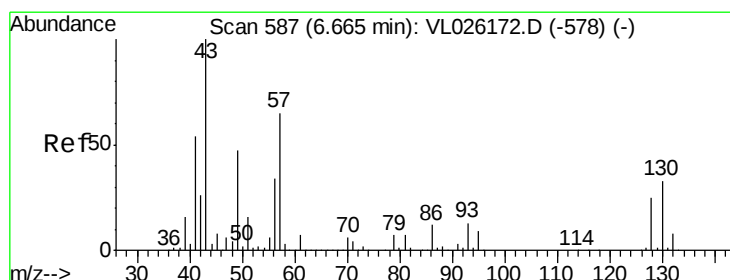
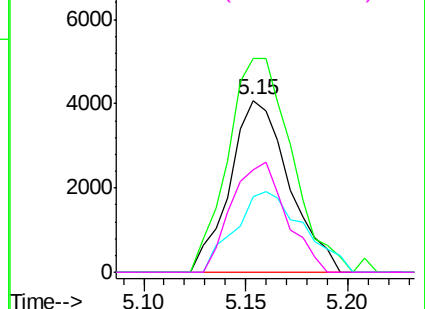
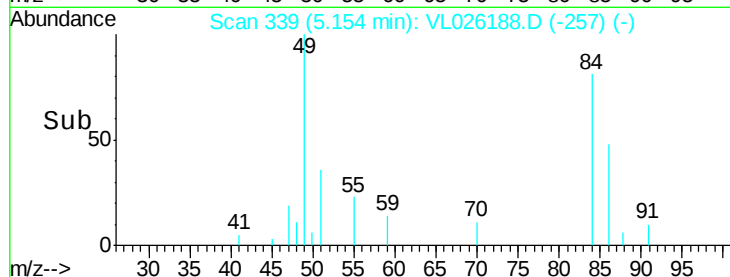


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#26

Hexane

Concen: 0.42 ppbv

RT: 6.67 min Scan# 587

Delta R.T. 0.00 min

Lab File: VL026188.D

Acq: 9 Oct 2015 22:54

Tgt Ion: 57 Resp: 39025

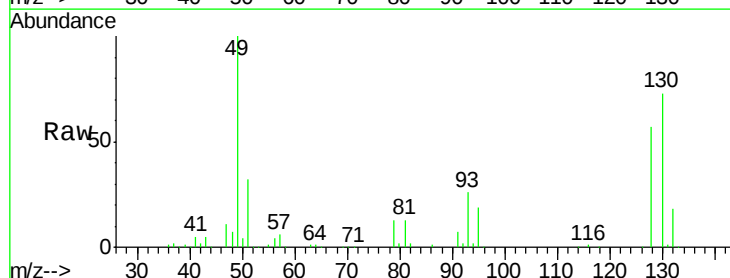
Ion Ratio Lower Upper

57 100

41 89.1 68.0 102.0

43 83.7 164.4 246.6#

56 53.3 42.7 64.1

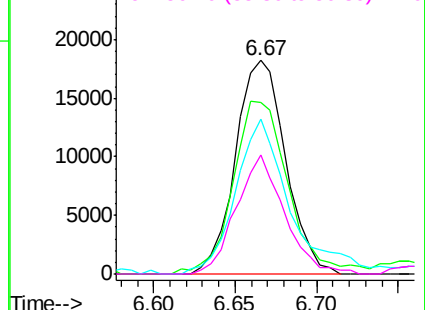
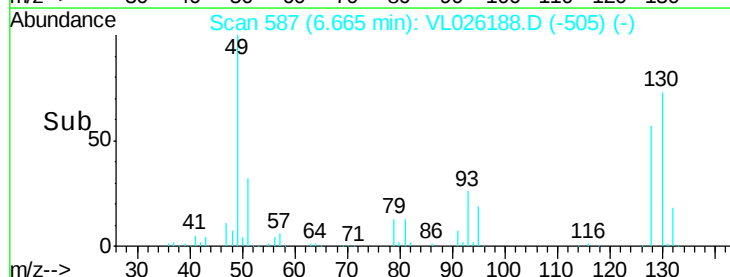


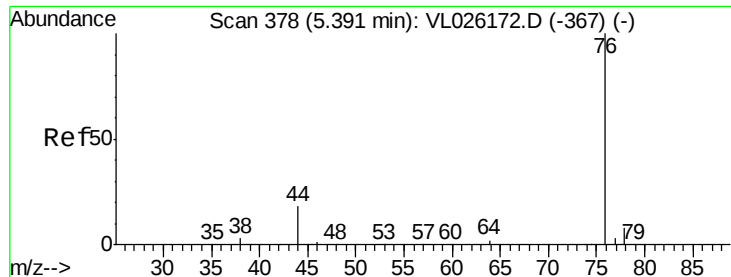
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.27 ppbv

RT: 5.40 min Scan# 379

Delta R.T. 0.01 min

Lab File: VL026188.D

Acq: 9 Oct 2015 22:54

Instrument :

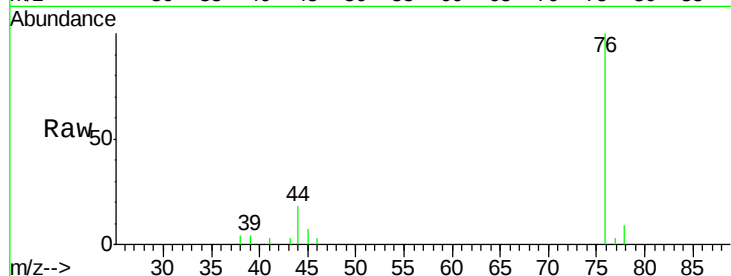
MSVOA_L

ClientSampled :

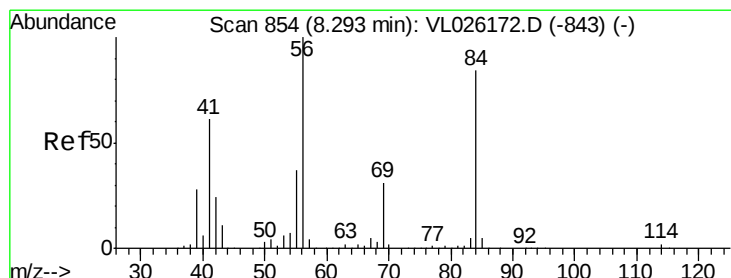
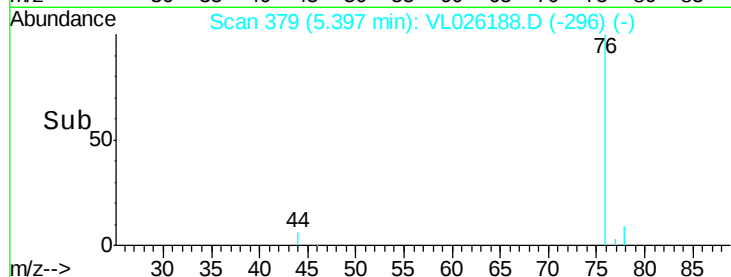
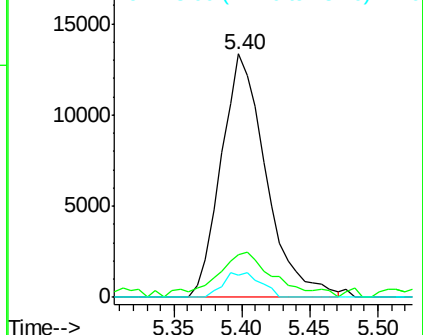
SS-2DL

Tot Ion: 76 Resp: 30746

Ion	Ratio	Lower	Upper
76	100		
44	25.6	14.2	21.4#
78	8.4	7.5	11.3



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#30

Cyclohexane

Concen: 0.17 ppbv

RT: 8.29 min Scan# 853

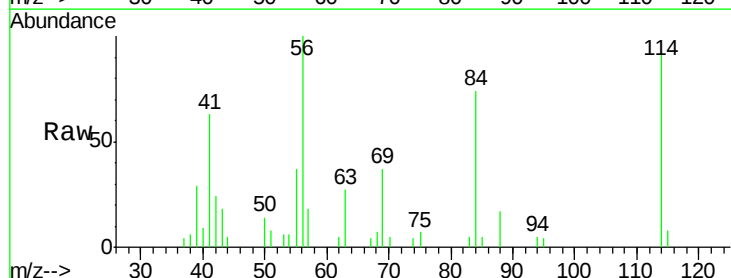
Delta R.T. -0.01 min

Lab File: VL026188.D

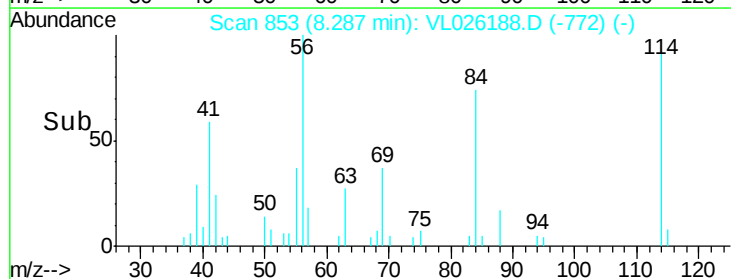
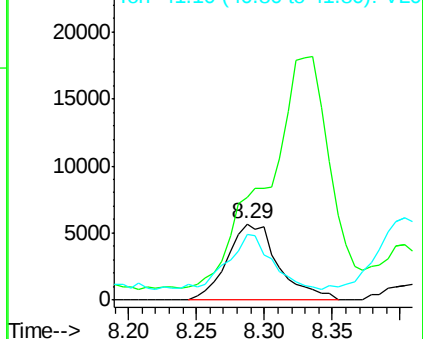
Acq: 9 Oct 2015 22:54

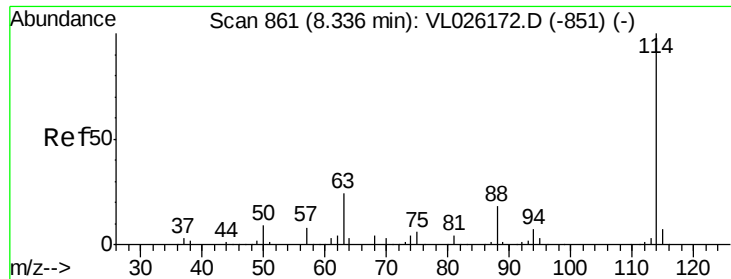
Tgt Ion: 84 Resp: 14979

Ion	Ratio	Lower	Upper
84	100		
56	470.5	99.8	149.8#
41	86.8	58.1	87.1



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

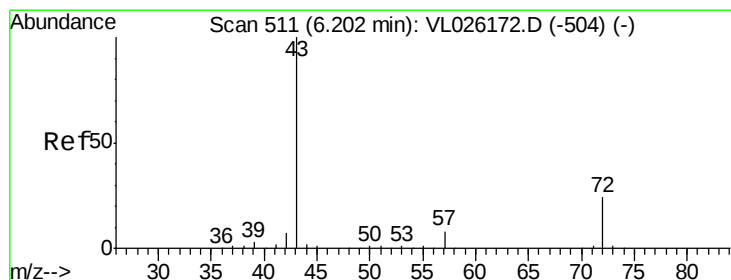
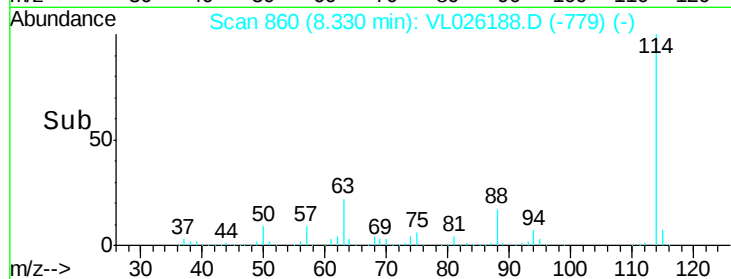
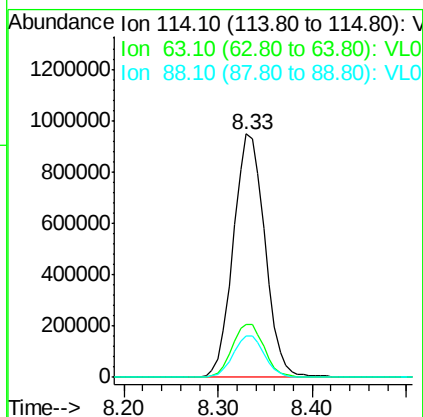
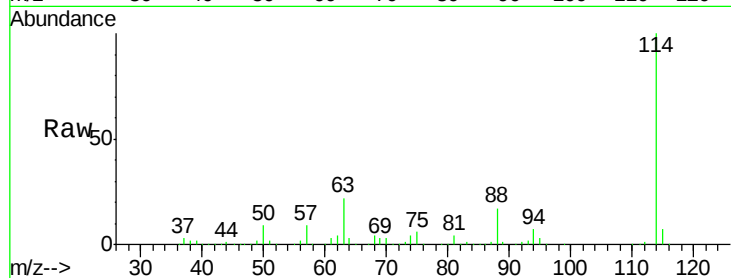




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.33 min Scan# 860
 Delta R.T. -0.01 min
 Lab File: VL026188.D
 Acq: 9 Oct 2015 22:54

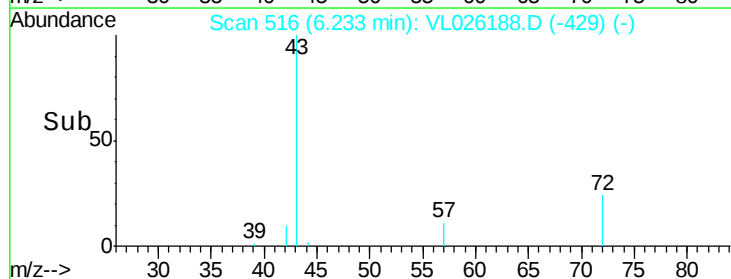
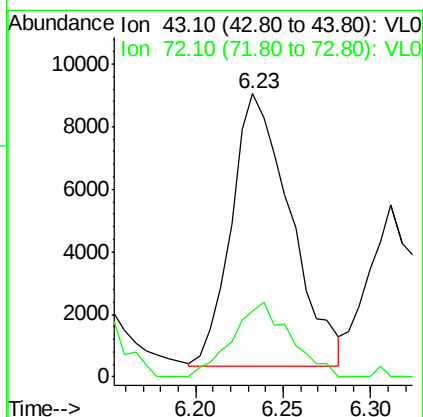
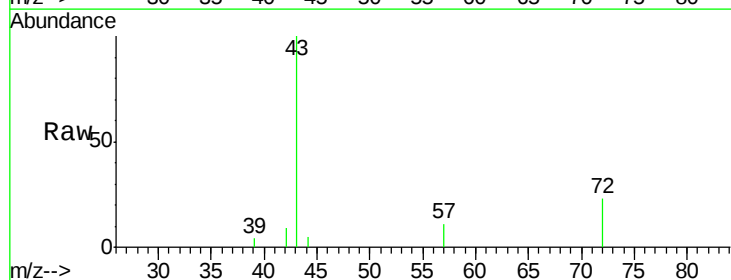
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

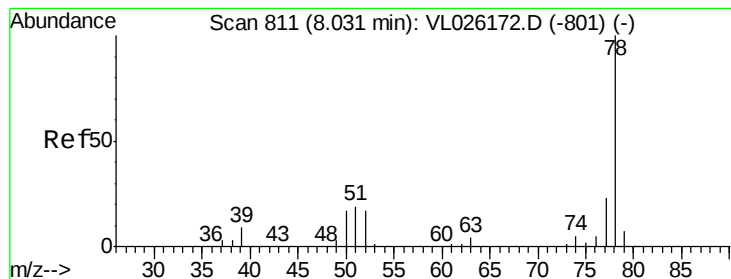
Tot Ion:114 Resp: 2222443
 Ion Ratio Lower Upper
 114 100
 63 22.1 19.0 28.6
 88 17.1 13.8 20.8



#34
 2-Butanone
 Concen: 0.16 ppbv
 RT: 6.23 min Scan# 516
 Delta R.T. 0.03 min
 Lab File: VL026188.D
 Acq: 9 Oct 2015 22:54

Tgt Ion: 43 Resp: 20405
 Ion Ratio Lower Upper
 43 100
 72 27.0 19.6 29.4





#36

Benzene

Concen: 0.17 ppbv

RT: 8.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VL026188.D

Acq: 9 Oct 2015 22:54

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

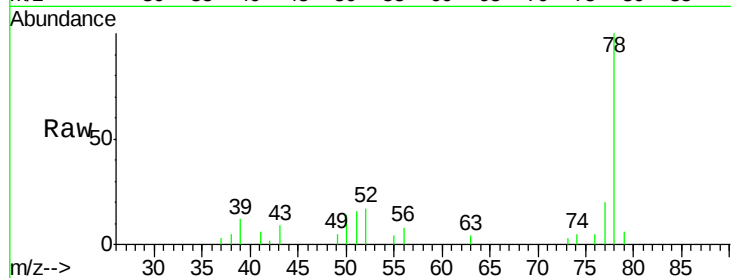
Tot Ion: 78 Resp: 35803

Ion Ratio Lower Upper

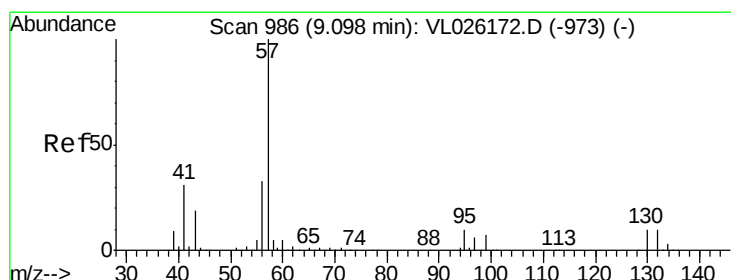
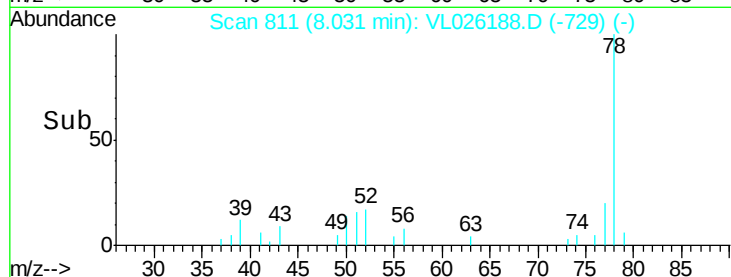
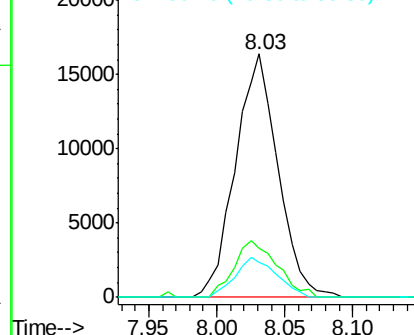
78 100

77 20.1 18.2 27.4

50 14.5 13.4 20.2



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



#44

2,2,4-Trimethylpentane

Concen: 0.39 ppbv

RT: 9.09 min Scan# 985

Delta R.T. -0.01 min

Lab File: VL026188.D

Acq: 9 Oct 2015 22:54

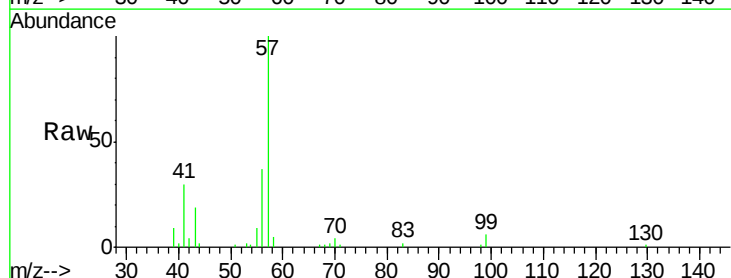
Tgt Ion: 57 Resp: 138411

Ion Ratio Lower Upper

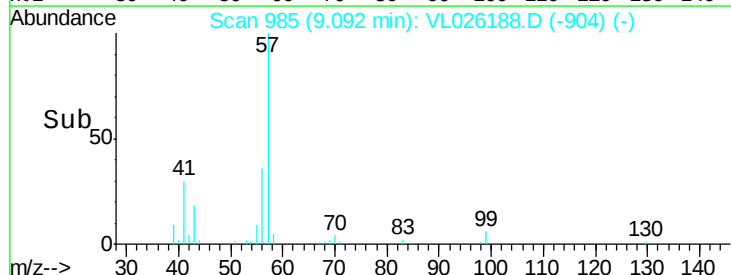
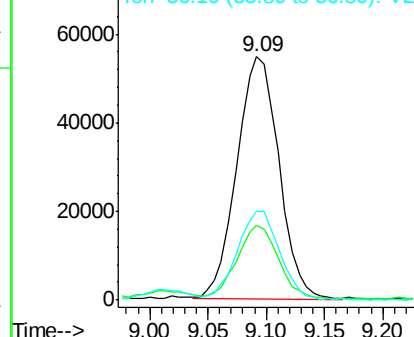
57 100

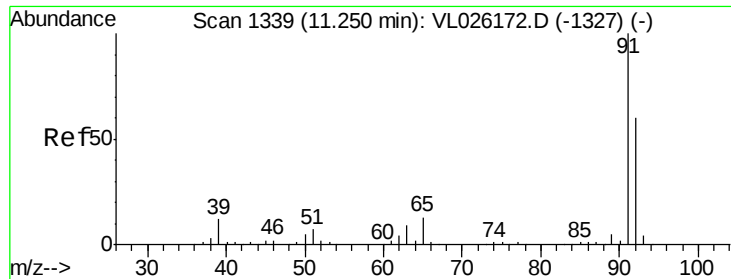
41 32.9 23.7 35.5

56 41.5 26.4 39.6#



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: 0.72 ppbv

RT: 11.24 min Scan# 1338

Delta R.T. -0.01 min

Lab File: VL026188.D

Acq: 9 Oct 2015 22:54

Instrument :

MSVOA_L

ClientSampled :

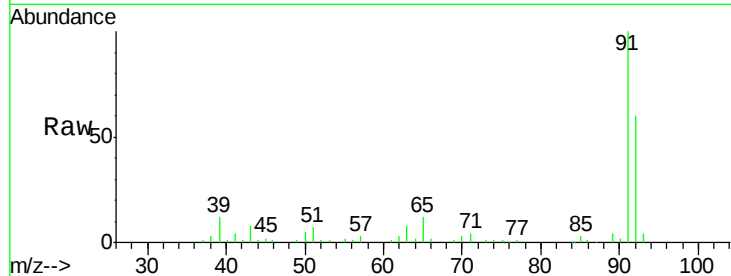
SS-2DL

Tot Ion: 91 Resp: 197793

Ion Ratio Lower Upper

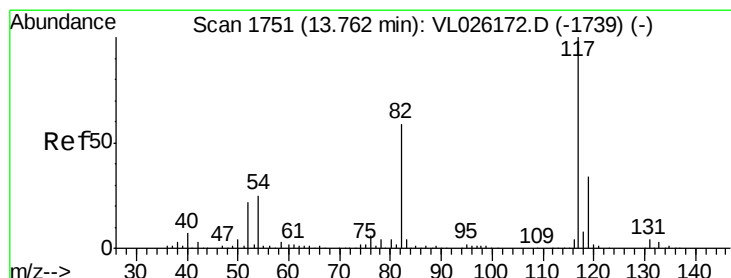
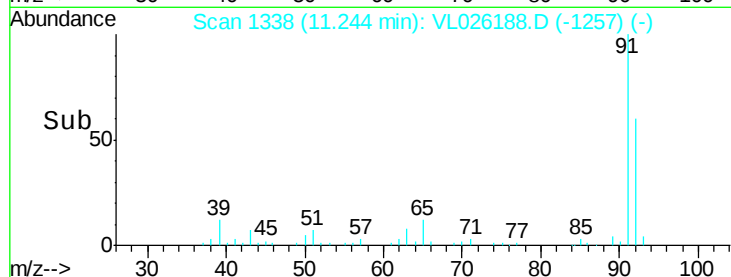
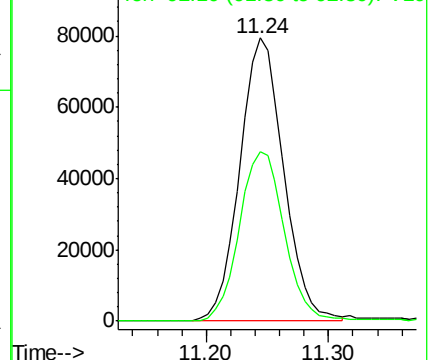
91 100

92 61.8 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.76 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL026188.D

Acq: 9 Oct 2015 22:54

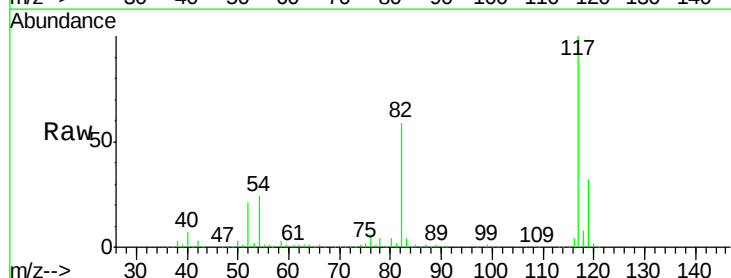
Tgt Ion: 117 Resp: 2515107

Ion Ratio Lower Upper

117 100

82 0.0 47.7 71.5#

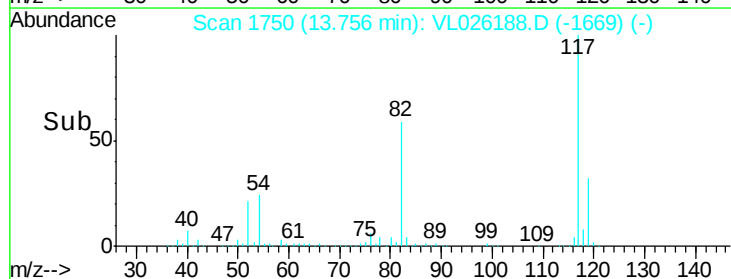
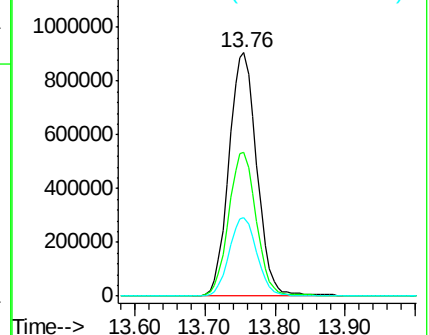
119 32.3 43.7 65.5#

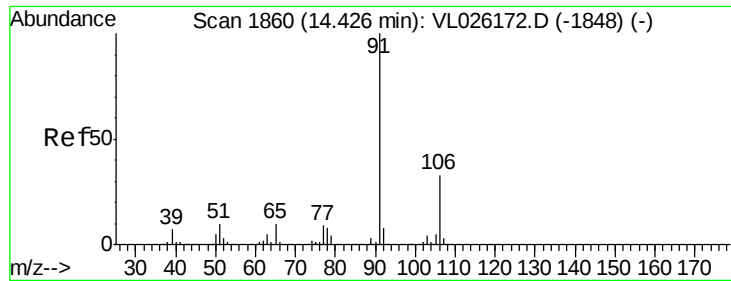


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.13 ppbv

RT: 14.43 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VL026188.D

Acq: 9 Oct 2015 22:54

Instrument :

MSVOA_L

ClientSampleId :

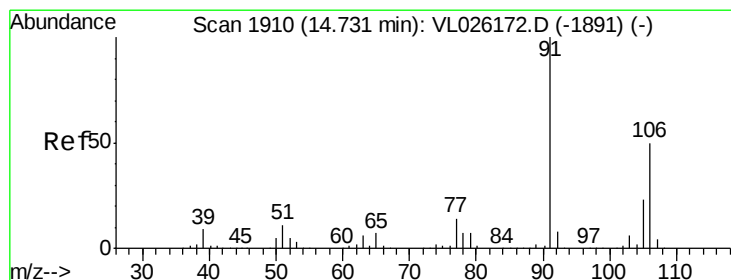
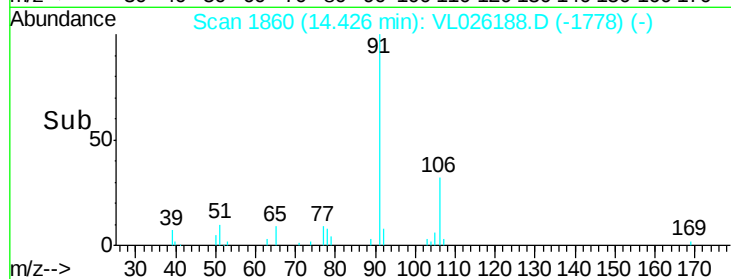
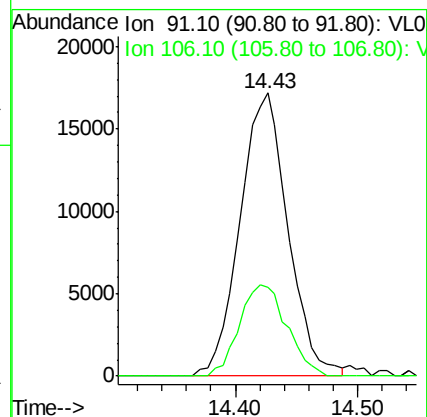
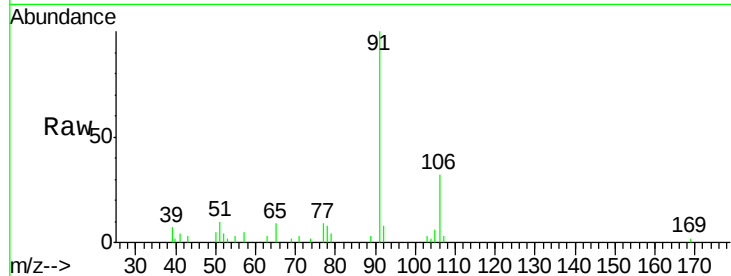
SS-2DL

Tot Ion: 91 Resp: 46759

Ion Ratio Lower Upper

91 100

106 31.6 26.1 39.1



#59

m/p-Xylene

Concen: 0.42 ppbv

RT: 14.70 min Scan# 1905

Delta R.T. -0.03 min

Lab File: VL026188.D

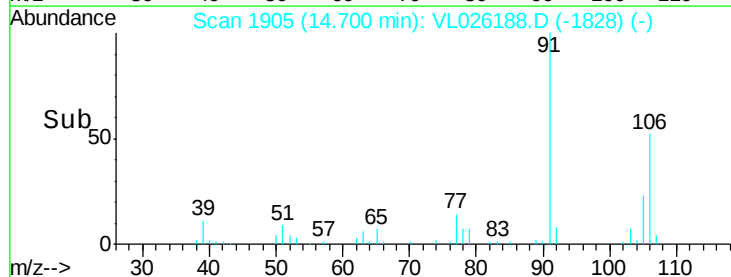
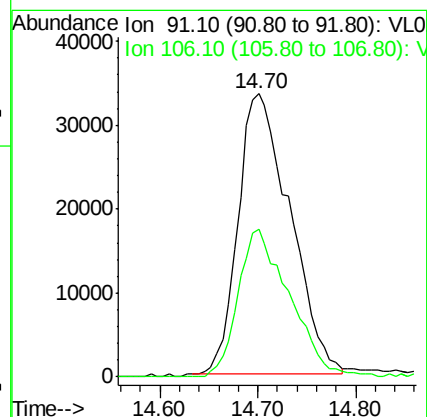
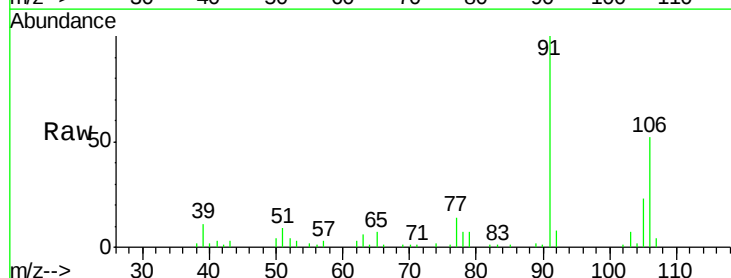
Acq: 9 Oct 2015 22:54

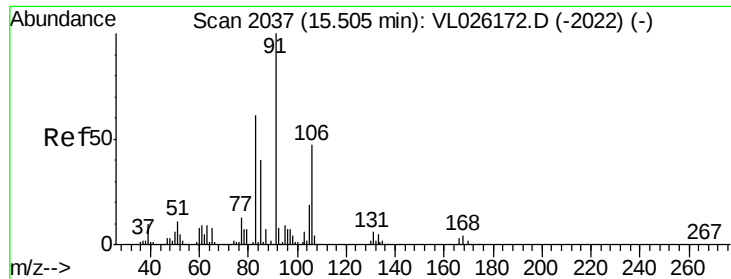
Tgt Ion: 91 Resp: 123188

Ion Ratio Lower Upper

91 100

106 52.5 40.2 60.4

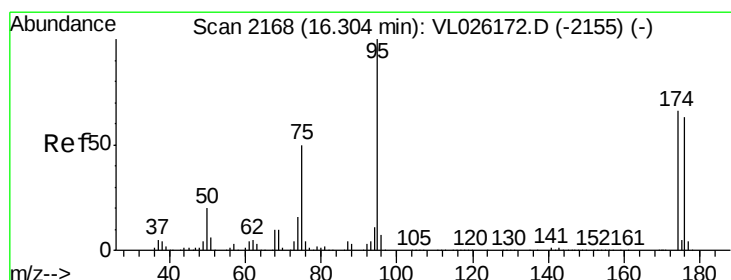
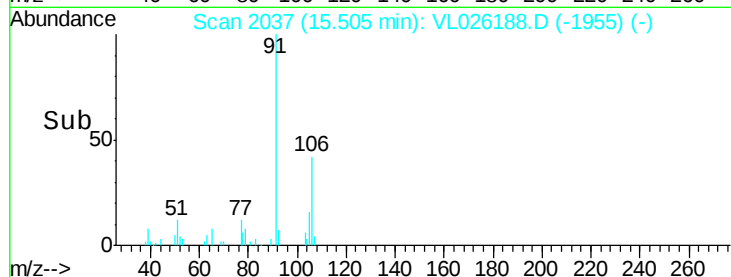
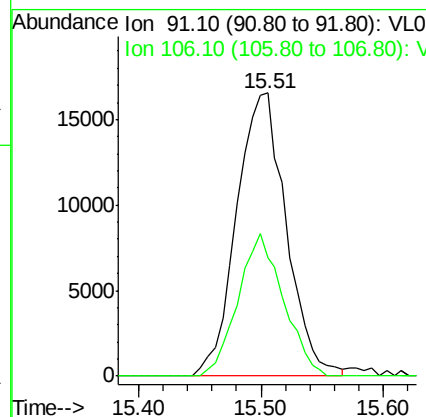
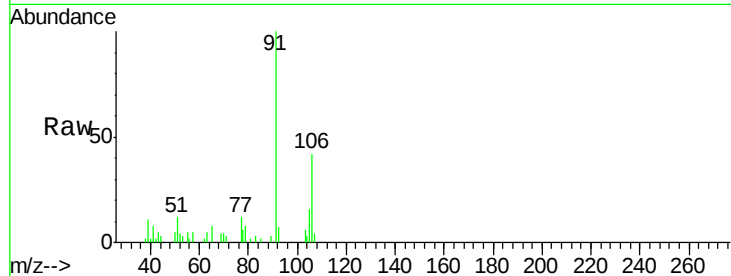




#60
o-Xylene
Concen: 0.15 ppbv
RT: 15.51 min Scan# 2037
Delta R.T. 0.00 min
Lab File: VL026188.D
Acq: 9 Oct 2015 22:54

Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

Tot Ion: 91 Resp: 46581
Ion Ratio Lower Upper
91 100
106 45.8 23.4 70.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.22 ppbv
RT: 16.30 min Scan# 2167
Delta R.T. -0.01 min
Lab File: VL026188.D
Acq: 9 Oct 2015 22:54

Tgt Ion: 95 Resp: 1973524
Ion Ratio Lower Upper
95 100
174 69.3 52.2 78.4
175 5.4 3.9 5.9

