

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026678.D
 Acq On : 12 Jan 2016 17:13
 Operator : SY/AP
 Sample : H1075-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-6DL

Quant Time: Jan 13 07:42:19 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	668872	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	8.36	114	2122187	10.00	ppbv	0.05
55) Chlorobenzene-d5	13.78	117	2908083	10.00	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.32	95	2412138	10.41	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

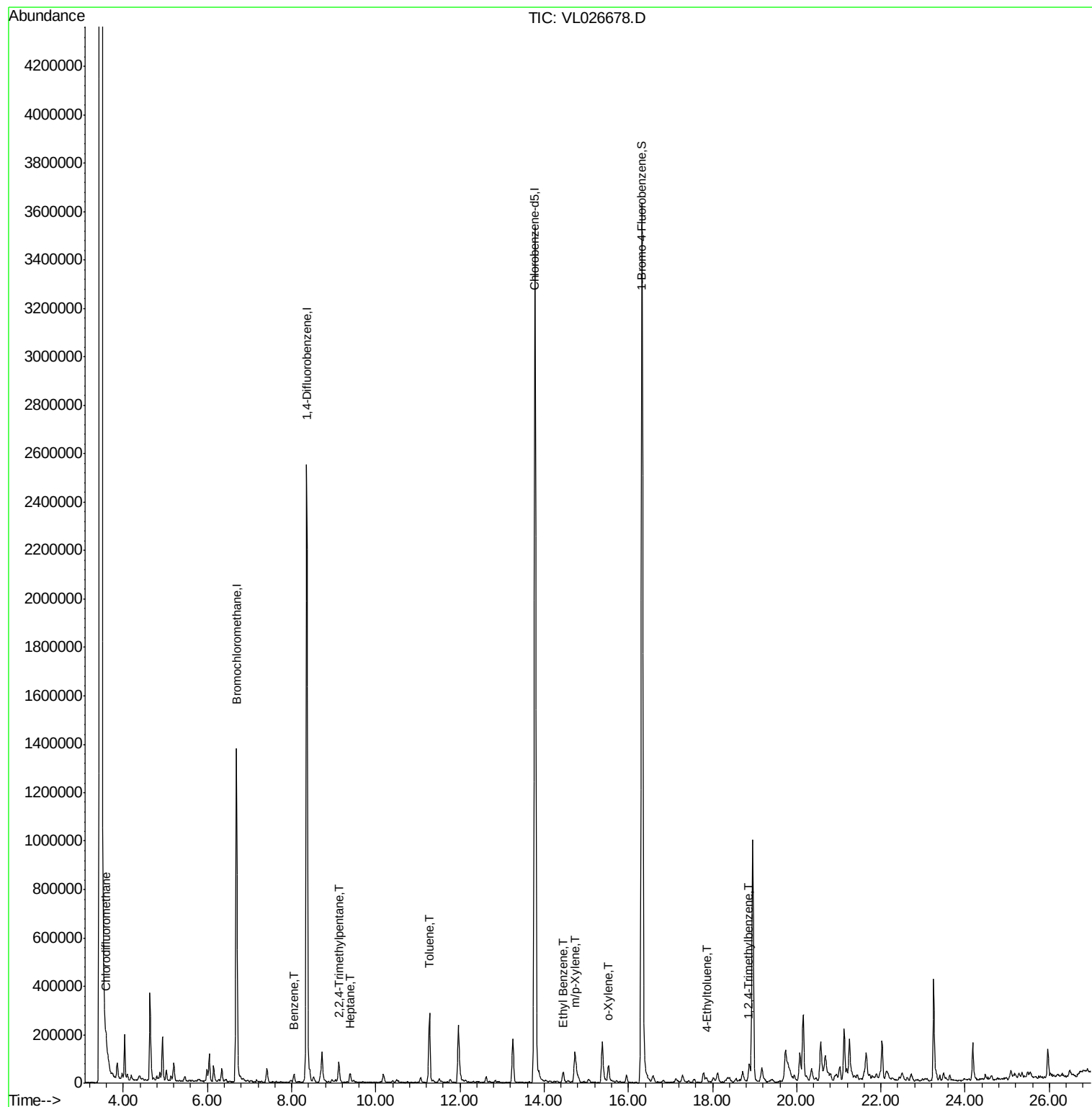
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.60	51	37869	0.43	ppbv	95
10) Heptane	9.38	43	13707	0.11	ppbv	93
36) Benzene	8.06	78	32189	0.15	ppbv	97
44) 2,2,4-Trimethylpentane	9.12	57	65621	0.19	ppbv #	76
53) Toluene	11.27	91	269440	0.88	ppbv	99
58) Ethyl Benzene	14.45	91	47530	0.09	ppbv #	87
59) m/p-Xylene	14.73	91	156199	0.36	ppbv	95
60) o-Xylene	15.53	91	65919	0.14	ppbv	100
72) 4-Ethyltoluene	17.86	105	21818	0.04	ppbv #	91
74) 1,2,4-Trimethylbenzene	18.86	105	65256	0.13	ppbv #	74

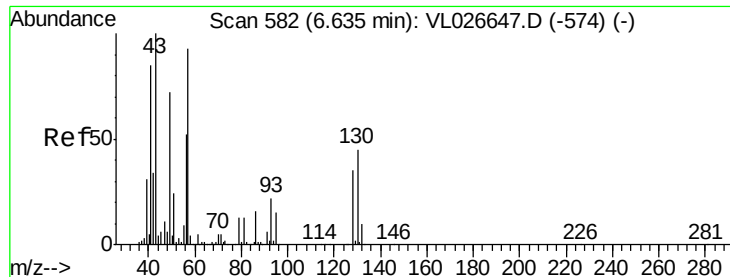
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
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QLast Update : Mon Jan 11 17:14:02 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. 0.05 min

Lab File: VL026678.D

Acq: 12 Jan 2016 17:13

Instrument :

MSVOA_L

ClientSampleId :

SS-6DL

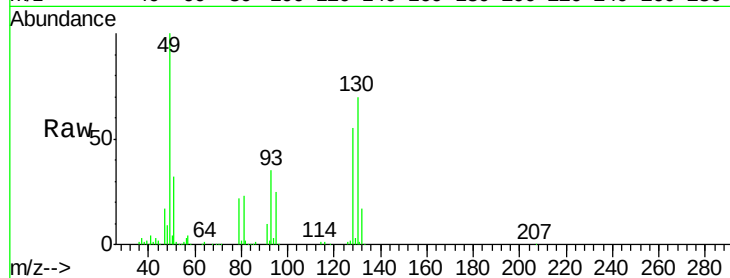
Tot Ion: 49 Resp: 668872

Ion Ratio Lower Upper

49 100

128 58.5 25.9 77.7

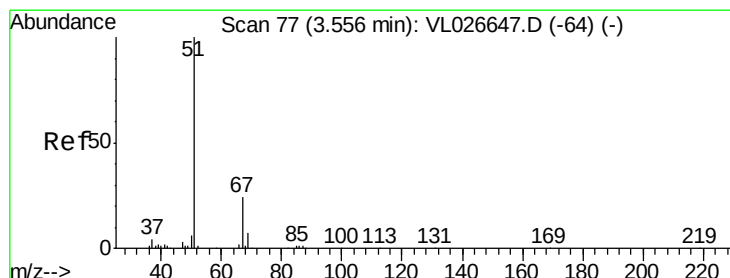
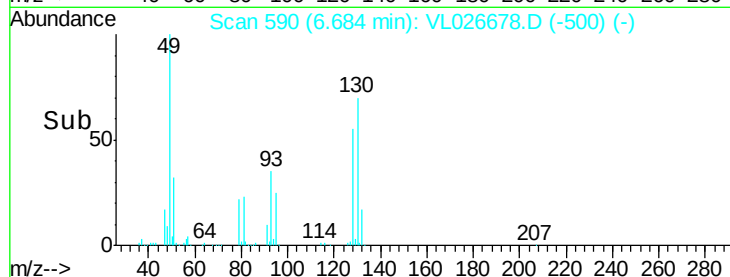
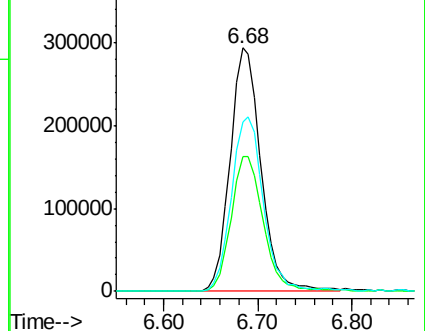
130 74.9 33.6 100.8



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: 0.43 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.04 min

Lab File: VL026678.D

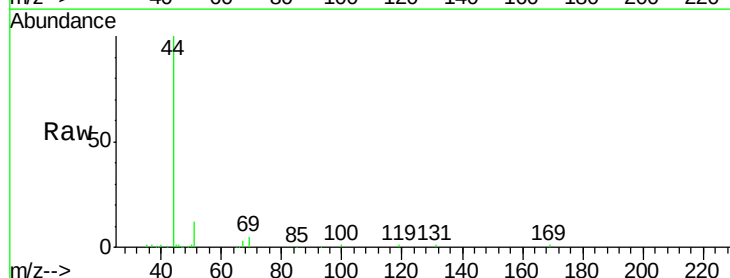
Acq: 12 Jan 2016 17:13

Tgt Ion: 51 Resp: 37869

Ion Ratio Lower Upper

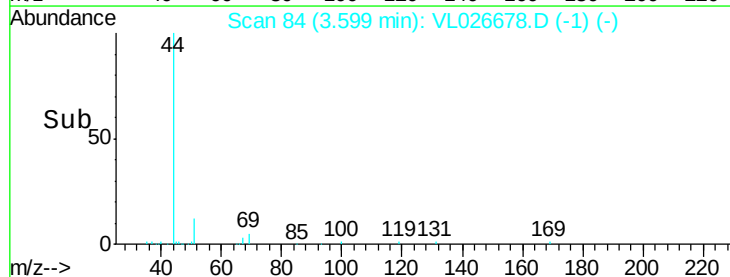
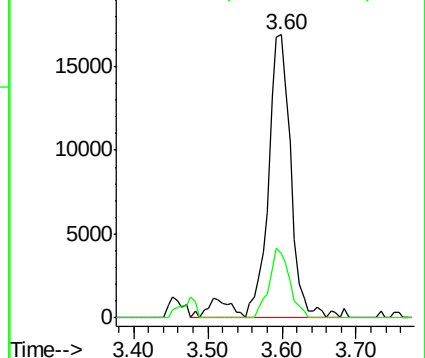
51 100

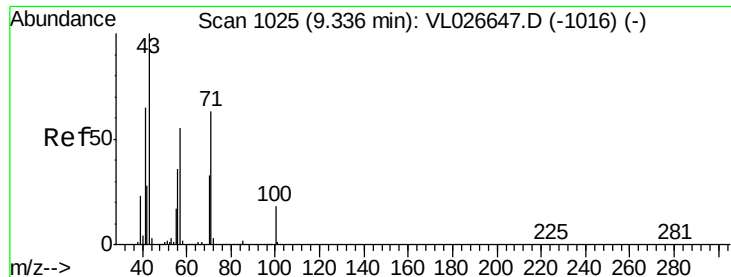
67 21.0 18.6 28.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#10

Heptane

Concen: 0.11 ppbv

RT: 9.38 min Scan# 1033

Delta R.T. 0.05 min

Lab File: VL026678.D

Acq: 12 Jan 2016 17:13

Instrument :

MSVOA_L

ClientSampleId :

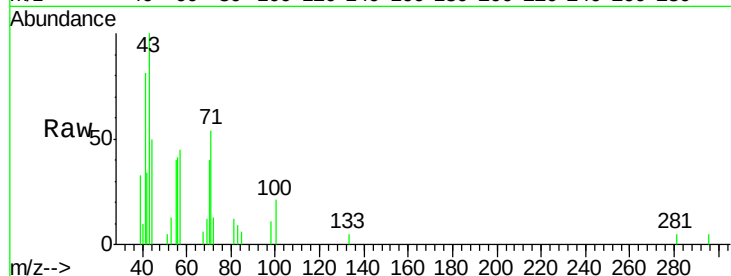
SS-6DL

Tot Ion: 43 Resp: 13707

Ion Ratio Lower Upper

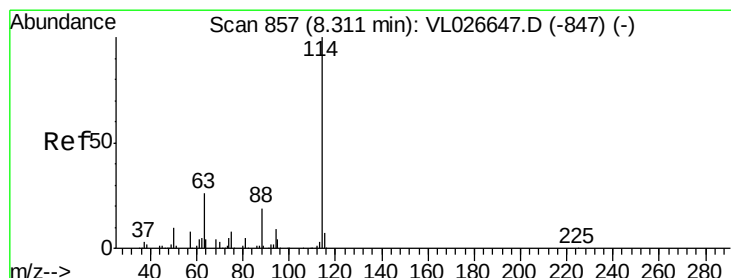
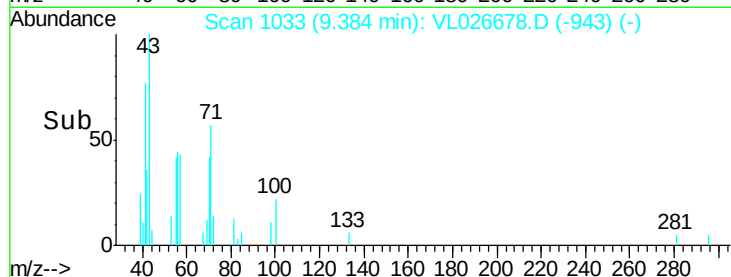
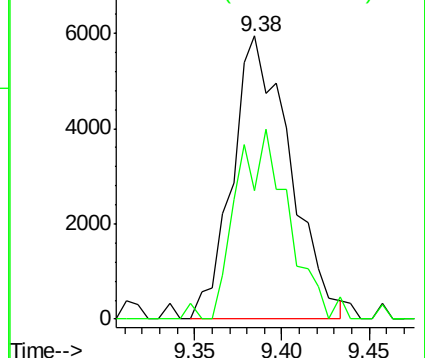
43 100

57 62.0 45.8 68.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.36 min Scan# 865

Delta R.T. 0.05 min

Lab File: VL026678.D

Acq: 12 Jan 2016 17:13

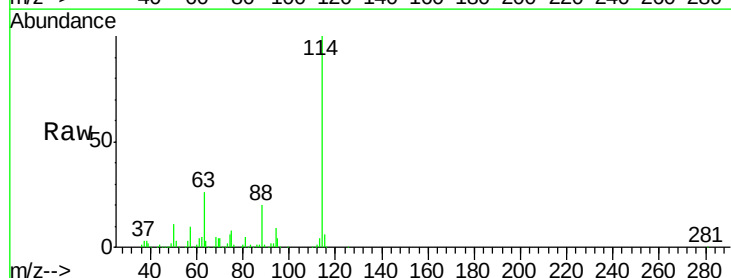
Tgt Ion: 114 Resp: 2122187

Ion Ratio Lower Upper

114 100

63 26.3 21.7 32.5

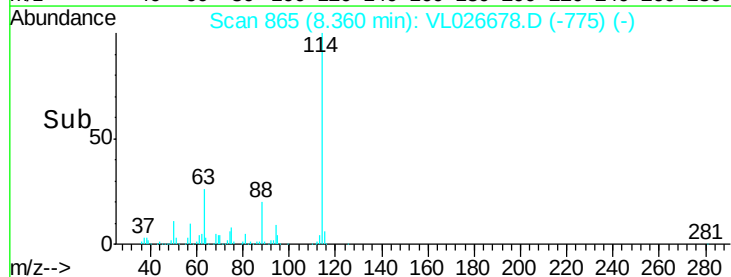
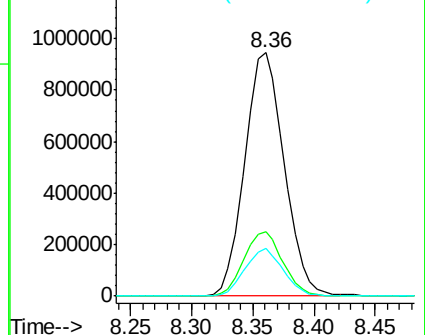
88 19.1 15.2 22.8

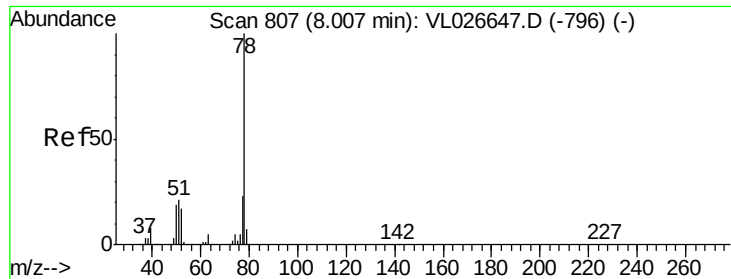


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#36

Benzene

Concen: 0.15 ppbv

RT: 8.06 min Scan# 815

Delta R.T. 0.05 min

Lab File: VL026678.D

Acq: 12 Jan 2016 17:13

Instrument :

MSVOA_L

ClientSampleId :

SS-6DL

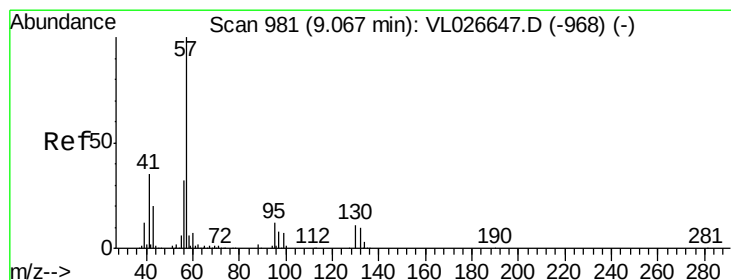
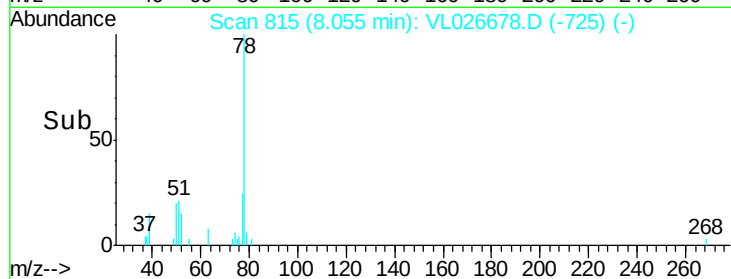
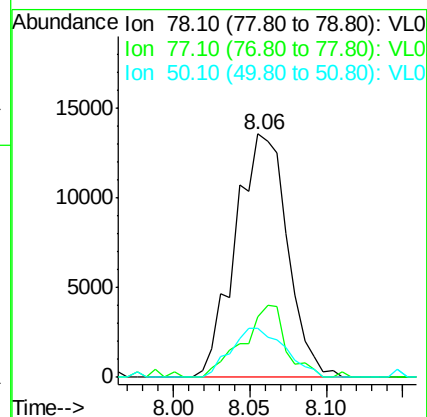
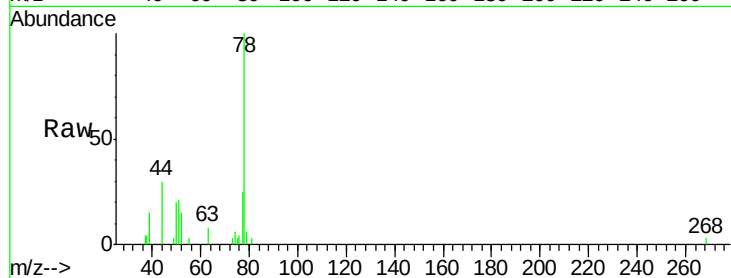
Tot Ion: 78 Resp: 32189

Ion Ratio Lower Upper

78 100

77 24.7 18.5 27.7

50 20.4 15.4 23.2



#44

2,2,4-Trimethylpentane

Concen: 0.19 ppbv

RT: 9.12 min Scan# 989

Delta R.T. 0.05 min

Lab File: VL026678.D

Acq: 12 Jan 2016 17:13

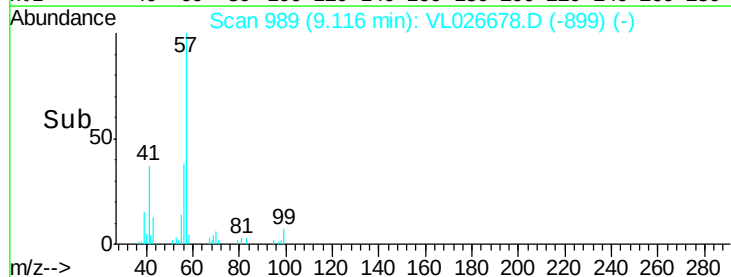
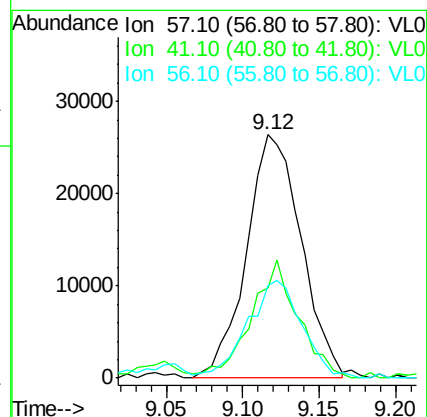
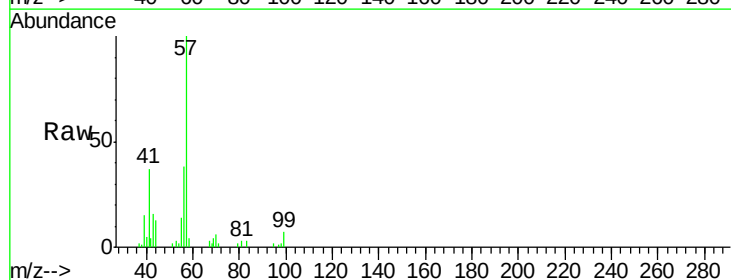
Tgt Ion: 57 Resp: 65621

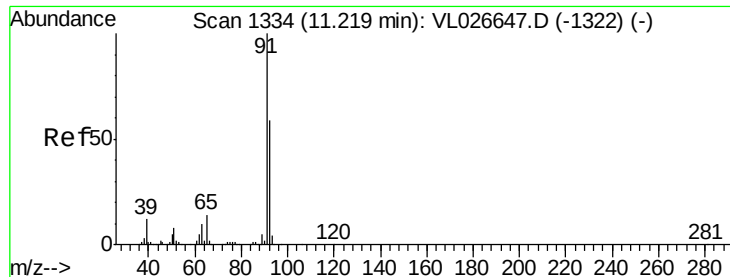
Ion Ratio Lower Upper

57 100

41 47.7 26.9 40.3#

56 45.0 25.4 38.0#





#53

Toluene

Concen: 0.88 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. 0.05 min

Lab File: VL026678.D

Acq: 12 Jan 2016 17:13

Instrument :

MSVOA_L

ClientSampleId :

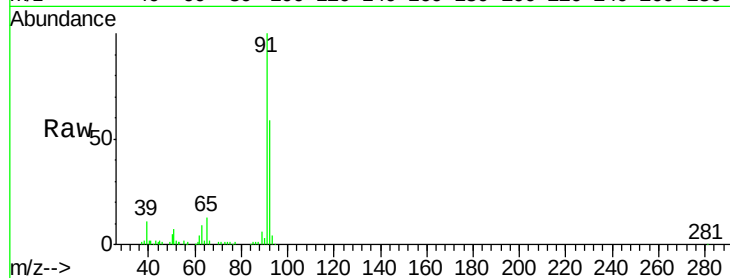
SS-6DL

Tot Ion: 91 Resp: 269440

Ion Ratio Lower Upper

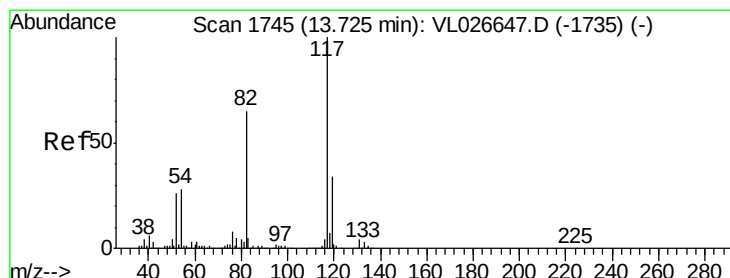
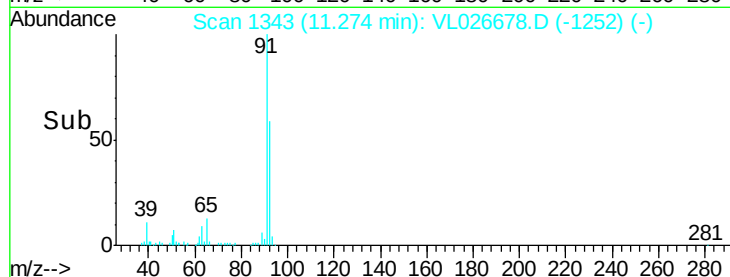
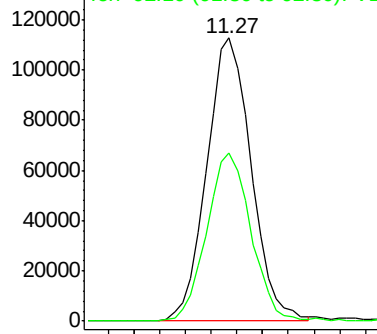
91 100

92 59.2 48.2 72.4



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: 13.78 min Scan# 1754

Delta R.T. 0.05 min

Lab File: VL026678.D

Acq: 12 Jan 2016 17:13

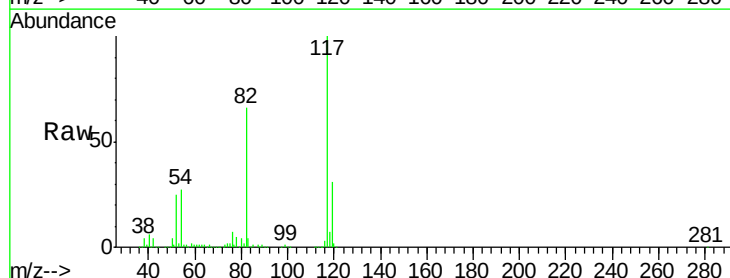
Tgt Ion: 117 Resp: 2908083

Ion Ratio Lower Upper

117 100

82 66.2 49.7 74.5

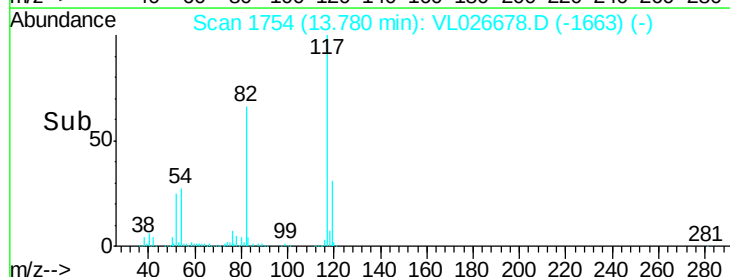
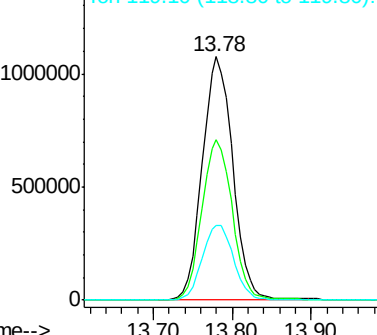
119 31.7 43.8 65.8#

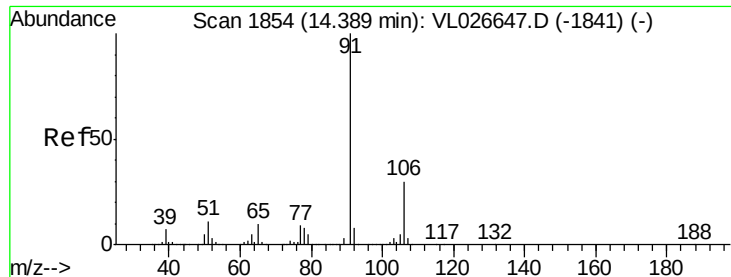


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.09 ppbv

RT: 14.45 min Scan# 1864

Delta R.T. 0.06 min

Lab File: VL026678.D

Acq: 12 Jan 2016 17:13

Instrument :

MSVOA_L

ClientSampleId :

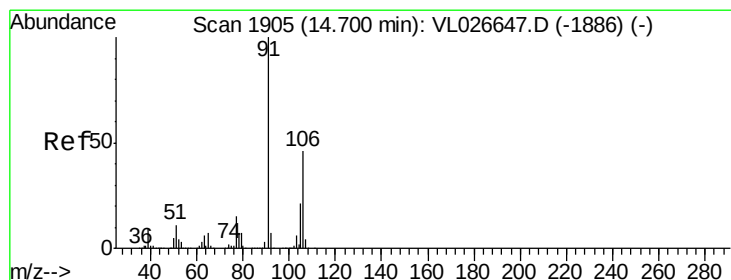
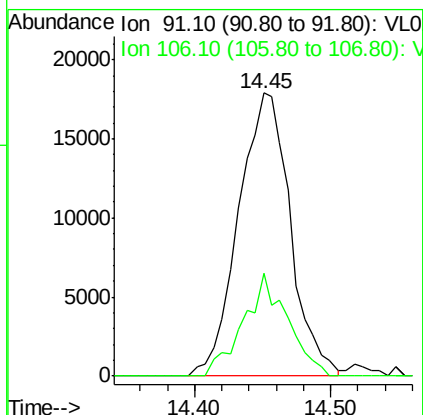
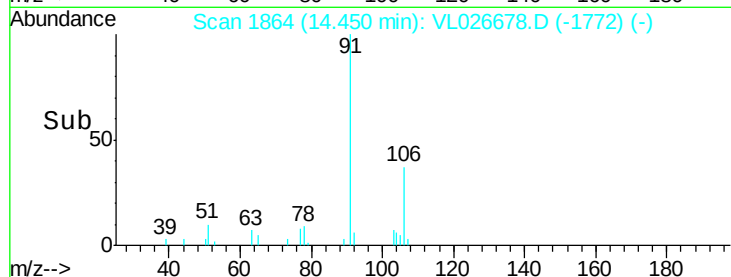
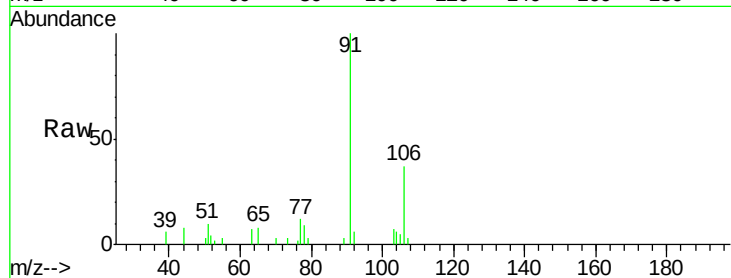
SS-6DL

Tot Ion: 91 Resp: 47530

Ion Ratio Lower Upper

91 100

106 36.5 23.8 35.6#



#59

m/p-Xylene

Concen: 0.36 ppbv

RT: 14.73 min Scan# 1910

Delta R.T. 0.03 min

Lab File: VL026678.D

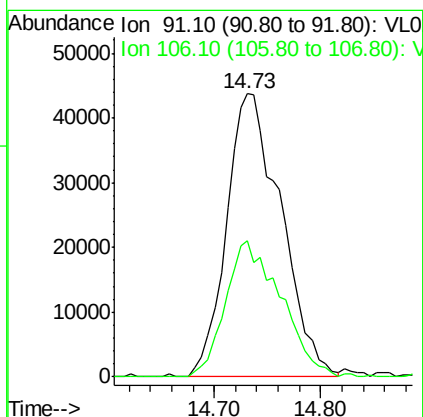
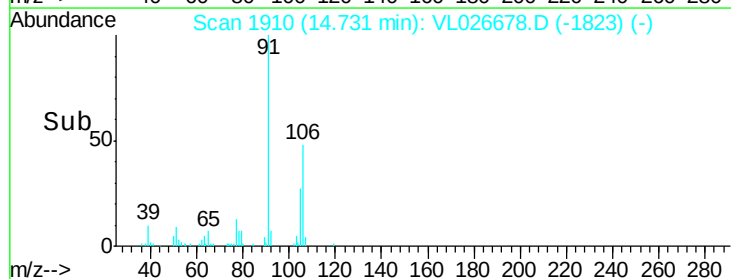
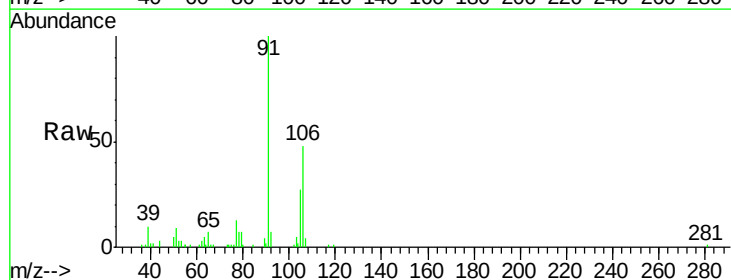
Acq: 12 Jan 2016 17:13

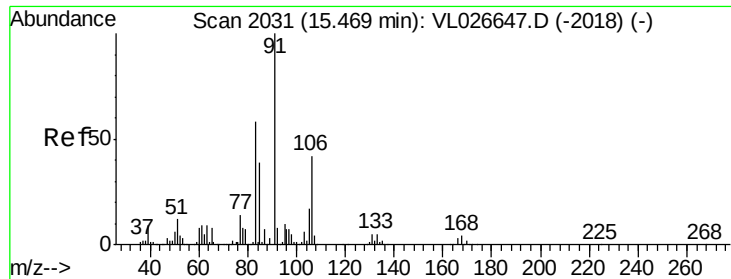
Tgt Ion: 91 Resp: 156199

Ion Ratio Lower Upper

91 100

106 49.0 36.6 55.0

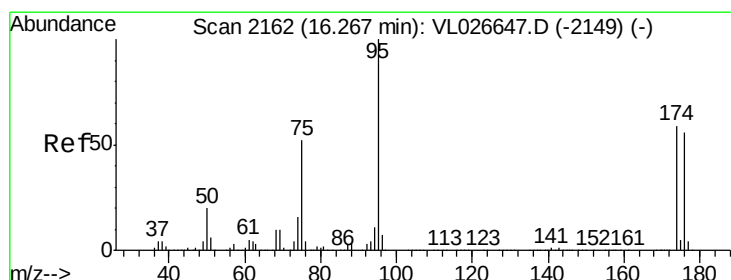
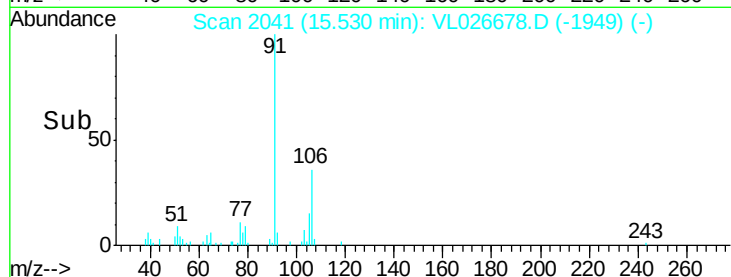
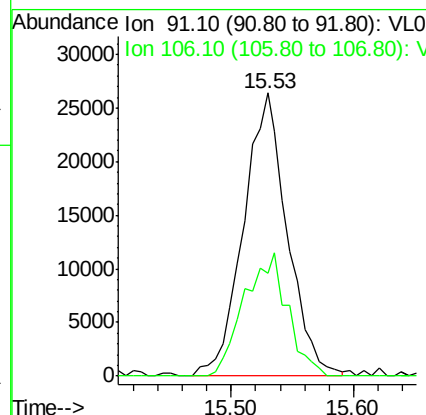
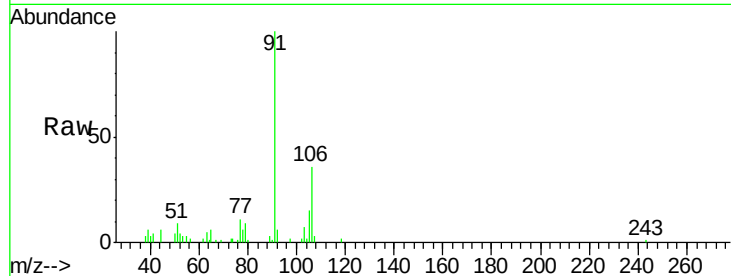




#60
o-Xylene
Concen: 0.14 ppbv
RT: 15.53 min Scan# 2041
Delta R.T. 0.06 min
Lab File: VL026678.D
Acq: 12 Jan 2016 17:13

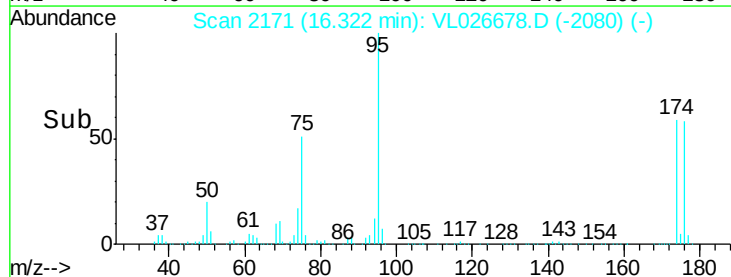
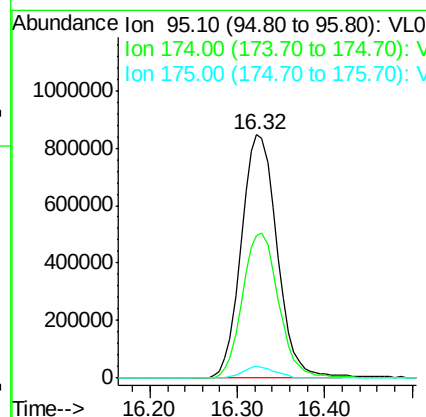
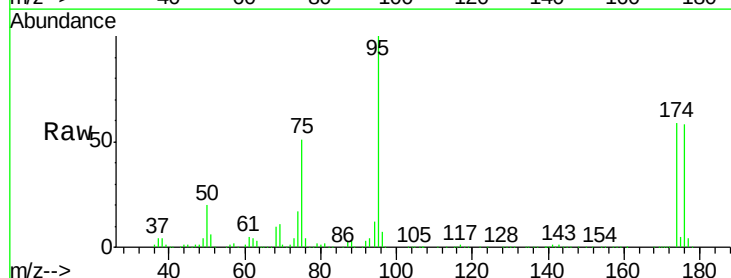
Instrument :
MSVOA_L
ClientSampleID :
SS-6DL

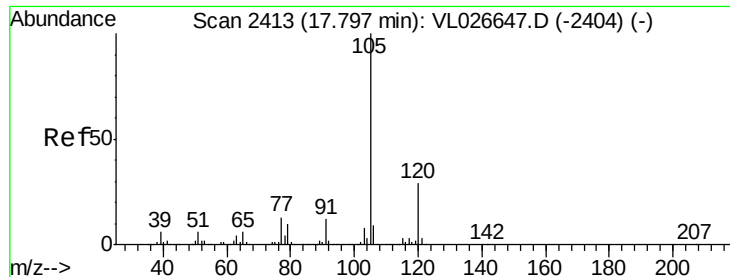
Tot Ion: 91 Resp: 65919
Ion Ratio Lower Upper
91 100
106 42.9 21.5 64.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.41 ppbv
RT: 16.32 min Scan# 2171
Delta R.T. 0.05 min
Lab File: VL026678.D
Acq: 12 Jan 2016 17:13

Tgt Ion: 95 Resp: 2412138
Ion Ratio Lower Upper
95 100
174 60.8 47.8 71.8
175 4.4 3.6 5.4





#72

4-Ethyltoluene

Concen: 0.04 ppbv

RT: 17.86 min Scan# 2423

Delta R.T. 0.06 min

Lab File: VL026678.D

Acq: 12 Jan 2016 17:13

Instrument :

MSVOA_L

ClientSampleId :

SS-6DL

Tot Ion:105 Resp: 21818

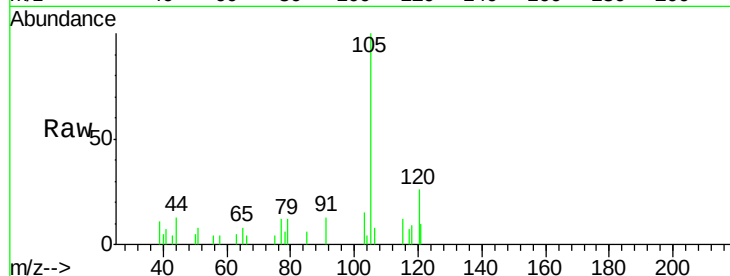
Ion Ratio Lower Upper

105 100

120 24.5 23.7 35.5

91 16.7 9.7 14.5#

77 11.5 10.3 15.5

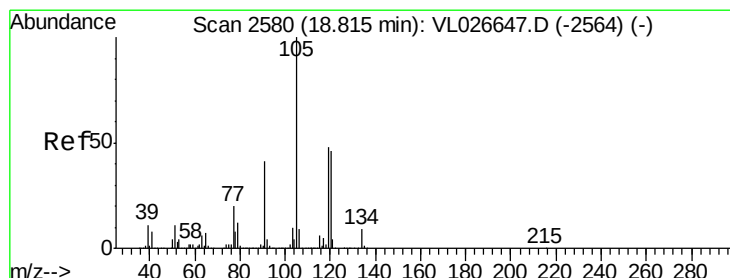
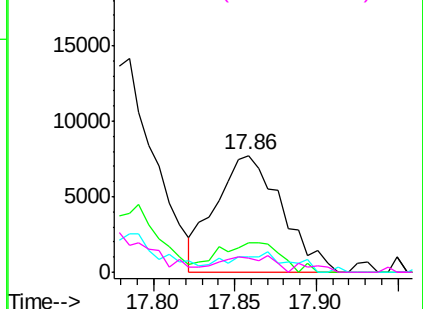
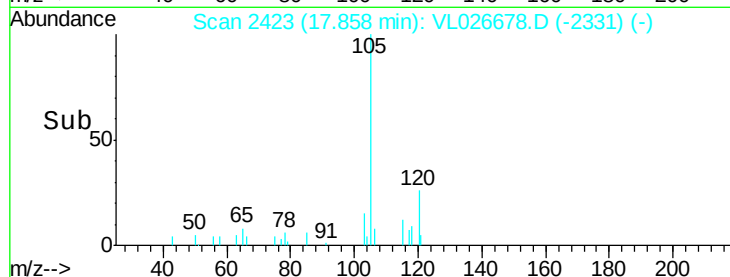


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#74

1,2,4-Trimethylbenzene

Concen: 0.13 ppbv

RT: 18.86 min Scan# 2588

Delta R.T. 0.05 min

Lab File: VL026678.D

Acq: 12 Jan 2016 17:13

Tgt Ion:105 Resp: 65256

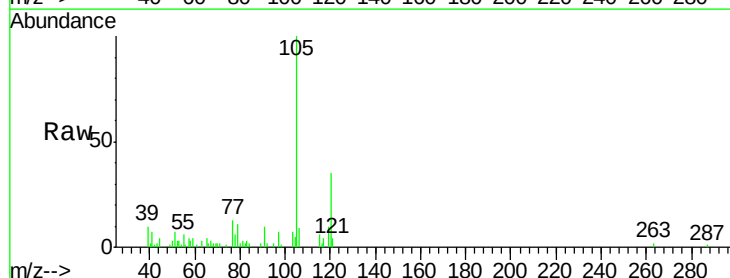
Ion Ratio Lower Upper

105 100

120 39.2 36.6 55.0

91 9.0 32.5 48.7#

77 13.2 15.7 23.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

