

Data Path : W:\HPCHEM1\MSVOA L\Data\VL100915\
 Data File : VL026186.D
 Acq On : 9 Oct 2015 21:35
 Operator : SY/MD
 Sample : G3973-01 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Quant Time: Oct 22 10:47:57 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	718004	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.36	114	1637589	10.00	ppbv	0.02
55) Chlorobenzene-d5	13.85	117	2273376	10.00	ppbv	0.09

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.38	95	3731307	21.38	ppbv	0.08
Spiked Amount	10.000	Range	65 - 135	Recovery	=	213.80%#

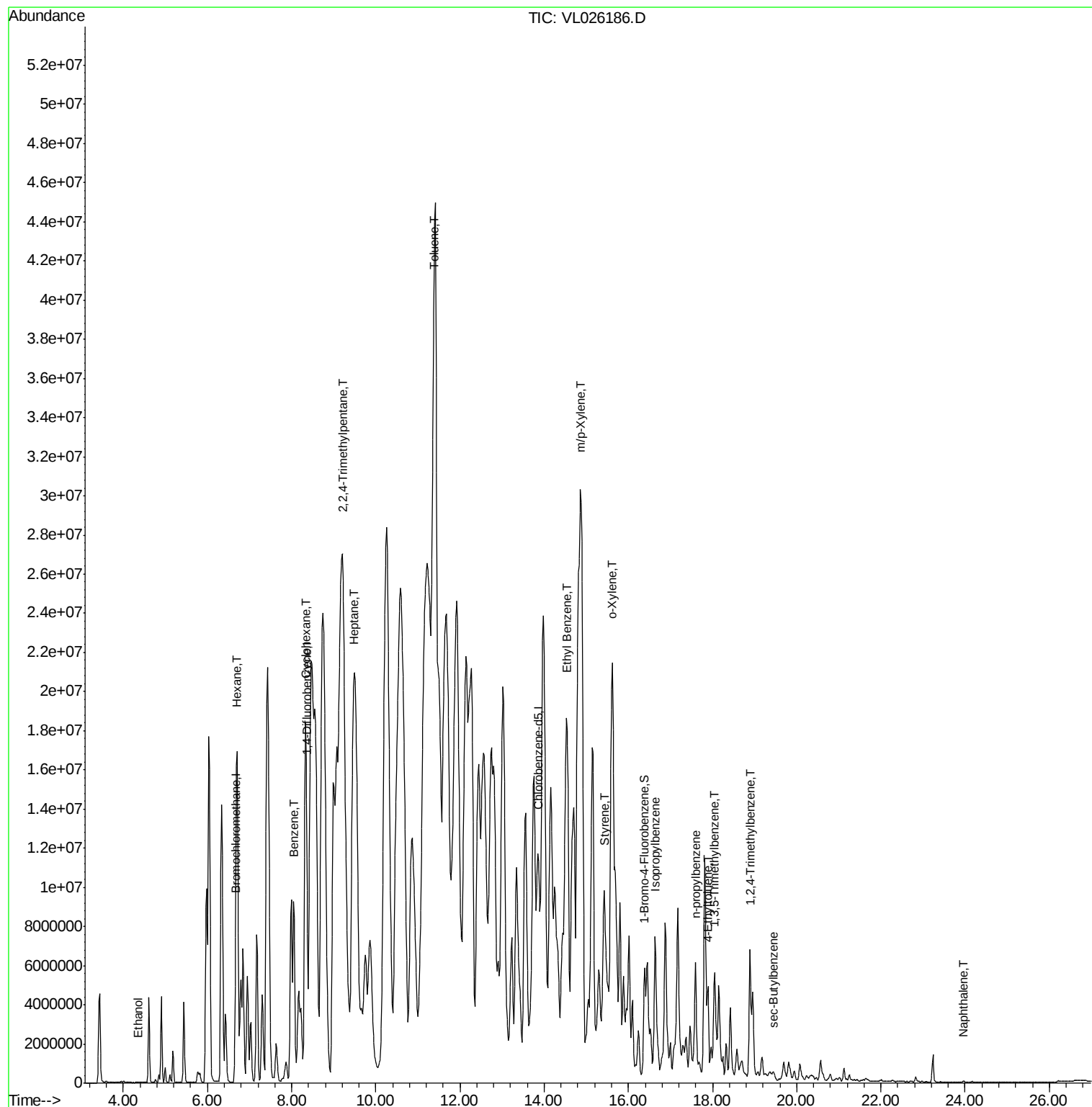
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) Heptane	9.46	43	19709057	147.26	ppbv	93
13) Ethanol	4.36	45	12988	2.29	ppbv	92
26) Hexane	6.70	57	12603878	145.02	ppbv #	46
30) Cyclohexane	8.33	84	12376629	149.46	ppbv	90
36) Benzene	8.05	78	9757302	62.30	ppbv #	89
44) 2,2,4-Trimethylpentane	9.22	57	58695785	225.39	ppbv #	40
53) Toluene	11.37	91	50971675	252.55	ppbv #	68
58) Ethyl Benzene	14.54	91	28680659	86.85	ppbv #	60
59) m/p-Xylene	14.85	91	39751949	150.01	ppbv #	68
60) o-Xylene	15.62	91	22704393	81.76	ppbv	76
61) Styrene	15.43	104	552444	4.86	ppbv	100
62) Isopropylbenzene	16.63	105	4298837	11.74	ppbv	99
64) n-propylbenzene	17.60	120	1743825	17.69	ppbv	87
67) sec-Butylbenzene	19.46	105	304610	0.68	ppbv	100
72) 4-Ethyltoluene	17.89	105	4583823	15.47	ppbv #	93
73) 1,3,5-Trimethylbenzene	18.05	105	4353036	15.63	ppbv	99
74) 1,2,4-Trimethylbenzene	18.89	105	5977982	20.47	ppbv #	73
79) Naphthalene	23.95	128	28663	0.16	ppbv	98

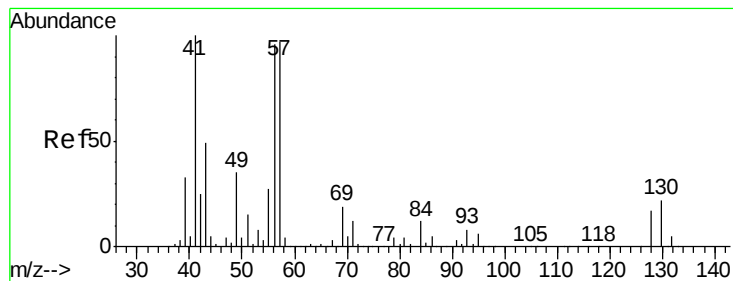
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA L\Data\VL100915\
Data File : VL026186.D
Acq On : 9 Oct 2015 21:35
Operator : SY/MD
Sample : G3973-01 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Quant Time: Oct 22 10:47:57 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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.66 min Scan# 586

Delta R.T. -0.00 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampled :

SS-1

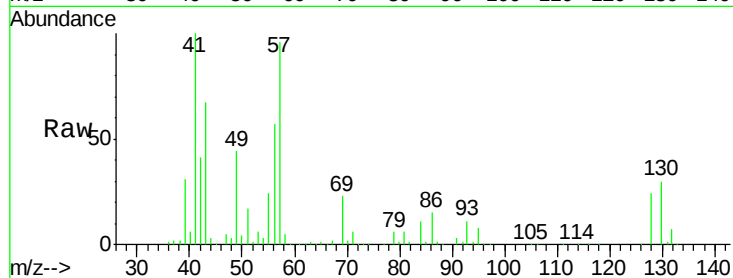
Tot Ion: 49 Resp: 718004

Ion Ratio Lower Upper

49 100

128 51.2 26.3 78.8

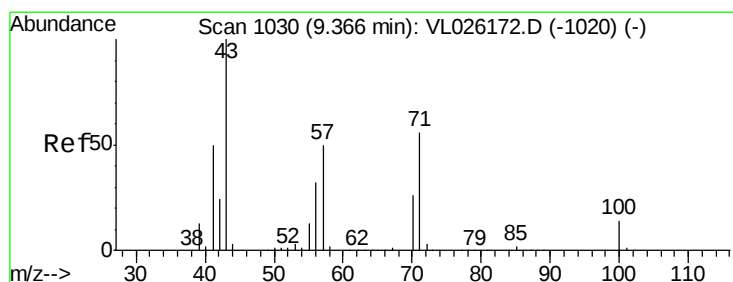
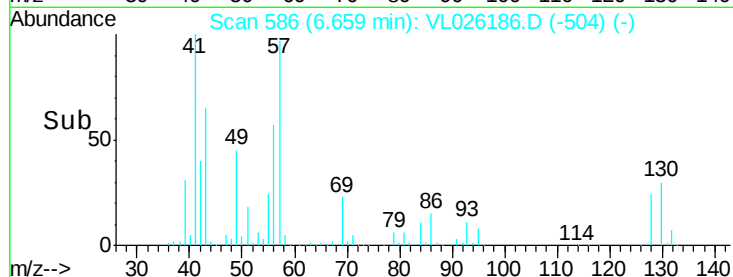
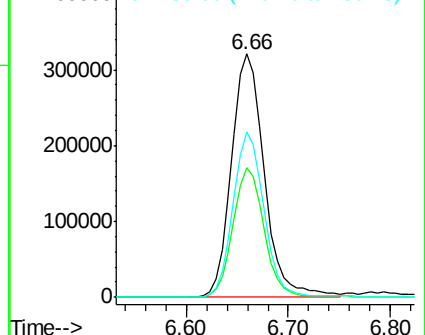
130 64.9 34.2 102.5



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



#10

Heptane

Concen: 147.26 ppbv

RT: 9.46 min Scan# 1046

Delta R.T. 0.10 min

Lab File: VL026186.D

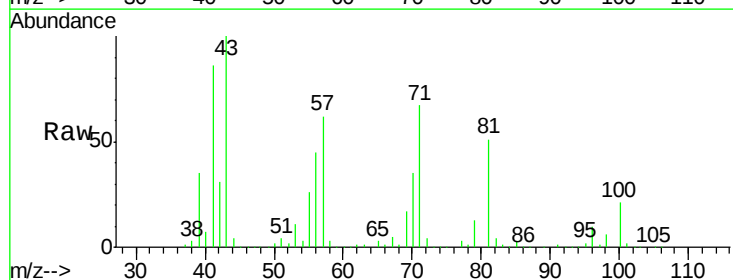
Acq: 9 Oct 2015 21:35

Tgt Ion: 43 Resp:19709057

Ion Ratio Lower Upper

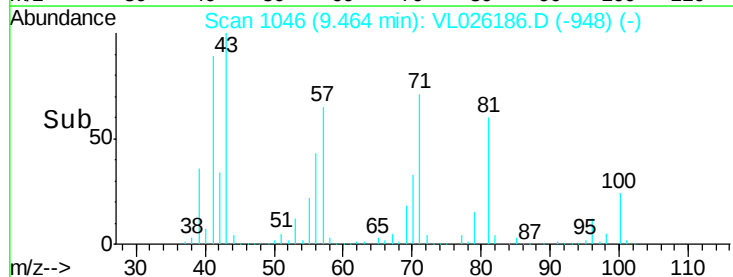
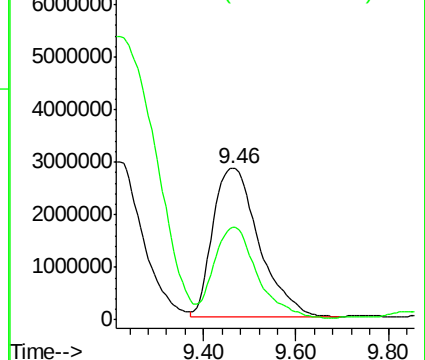
43 100

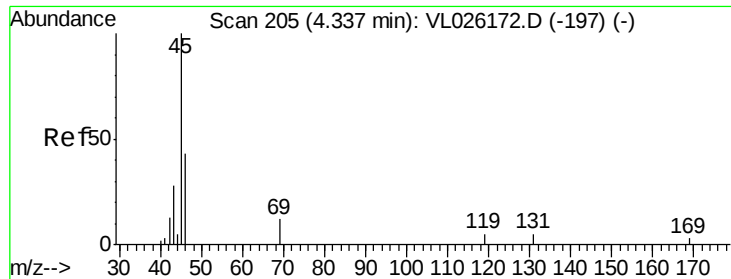
57 57.0 41.8 62.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#13

Ethanol

Concen: 2.29 ppbv

RT: 4.36 min Scan# 209

Delta R.T. 0.02 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampleId :

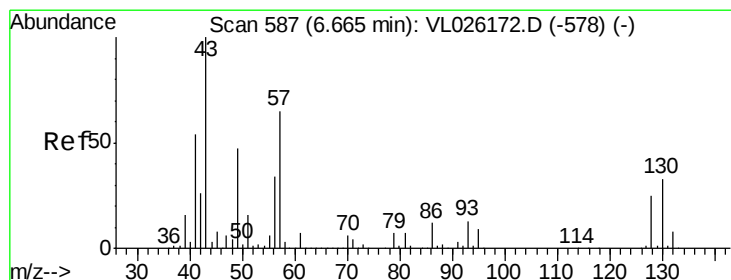
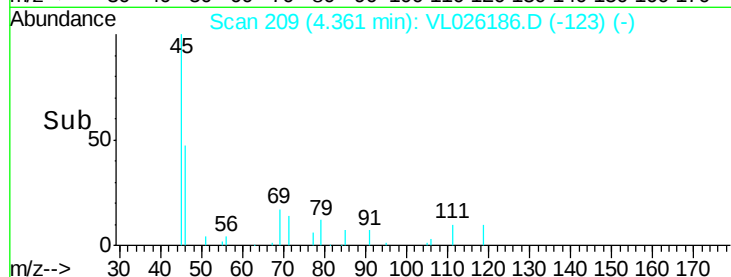
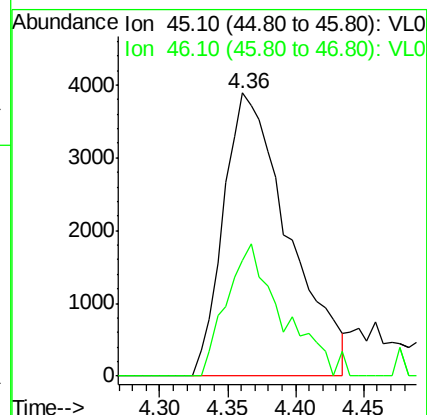
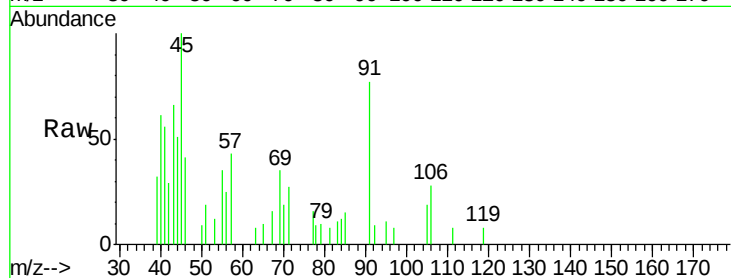
SS-1

Tot Ion: 45 Resp: 12988

Ion Ratio Lower Upper

45 100

46 40.0 18.1 72.5



#26

Hexane

Concen: 145.02 ppbv

RT: 6.70 min Scan# 593

Delta R.T. 0.04 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Tgt Ion: 57 Resp: 12603878

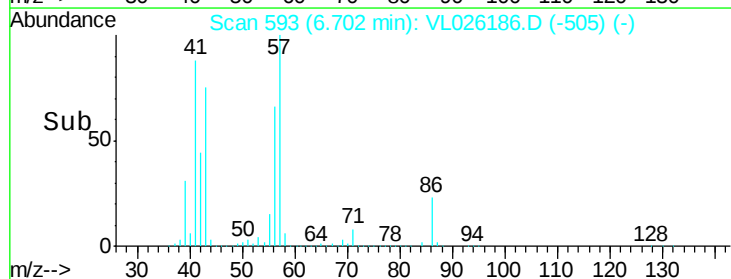
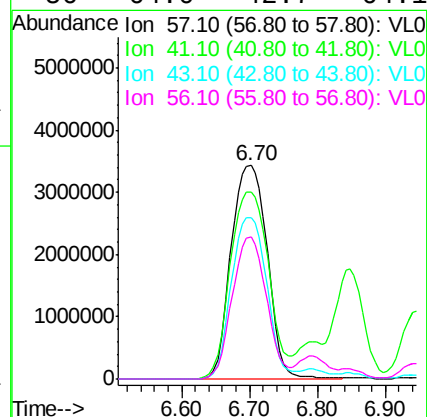
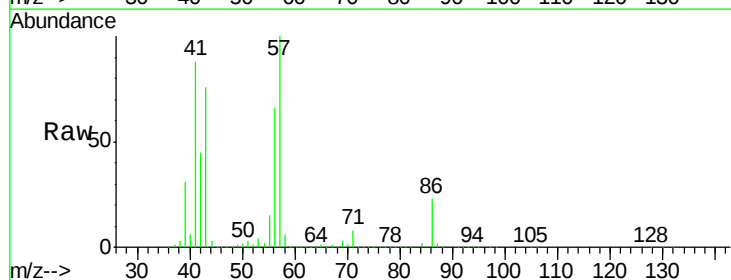
Ion Ratio Lower Upper

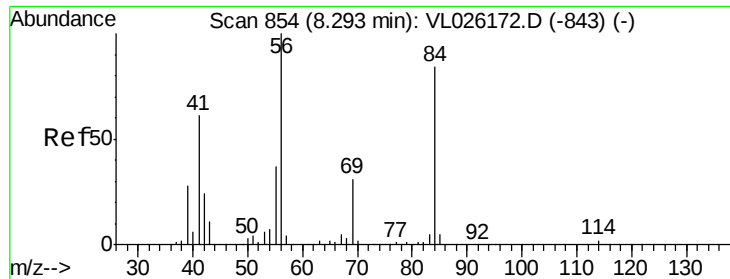
57 100

41 95.1 68.0 102.0

43 79.4 164.4 246.6#

56 64.0 42.7 64.1

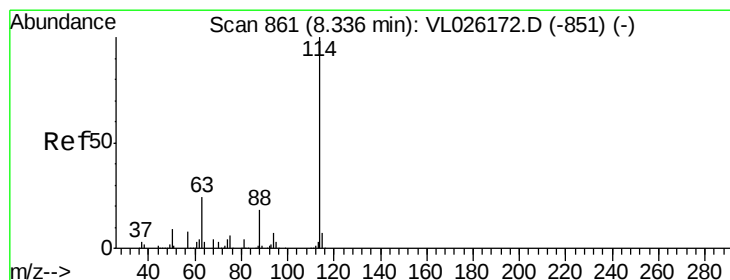
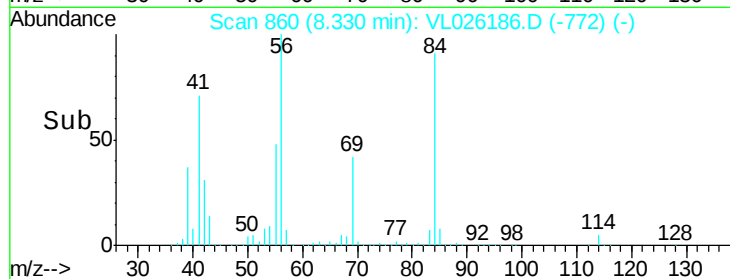
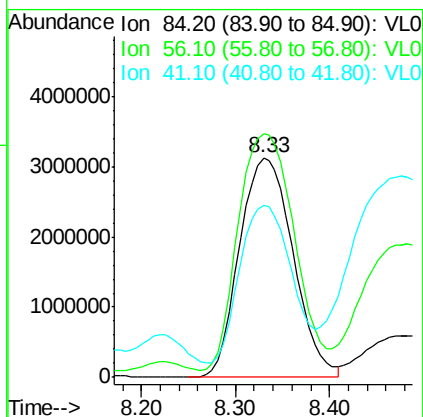
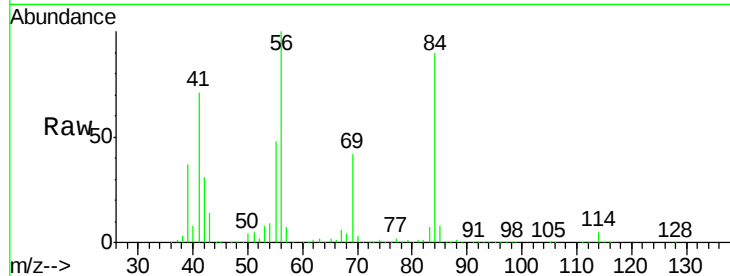




#30
Cvclohexane
Concen: 149.46 ppbv
RT: 8.33 min Scan# 860
Delta R.T. 0.04 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

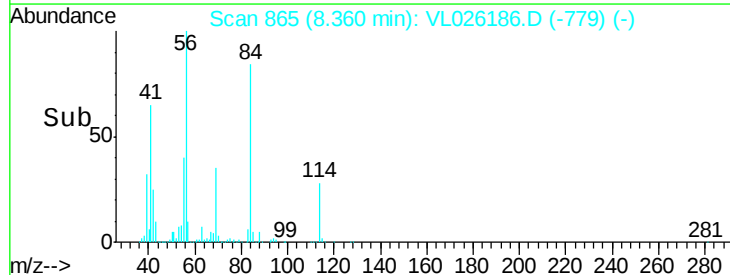
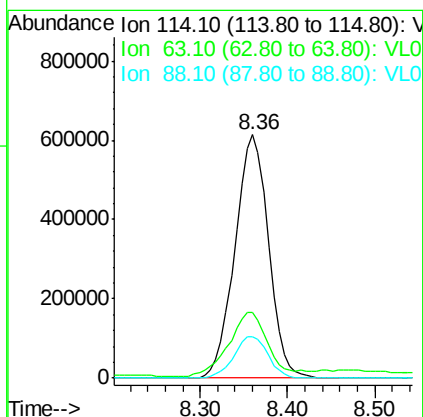
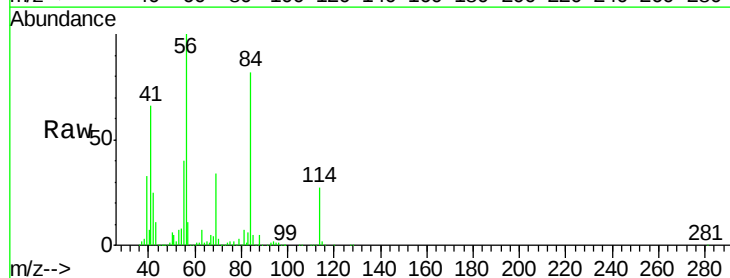
Instrument :
MSVOA_L
ClientSampleId :
SS-1

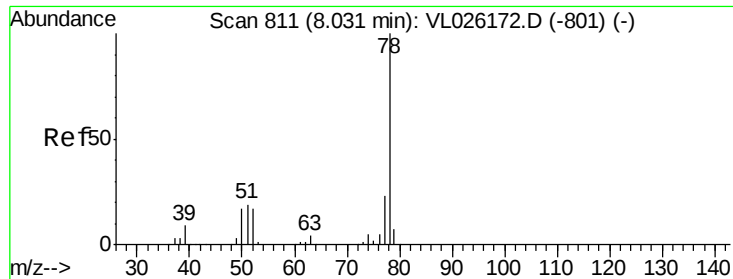
Tot Ion: 84 Resp:12376629
Ion Ratio Lower Upper
84 100
56 110.2 99.8 149.8
41 68.4 58.1 87.1



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.36 min Scan# 865
Delta R.T. 0.02 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion:114 Resp: 1637589
Ion Ratio Lower Upper
114 100
63 31.6 19.0 28.6#
88 17.5 13.8 20.8

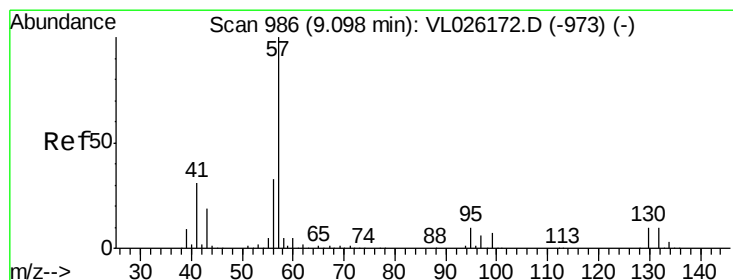
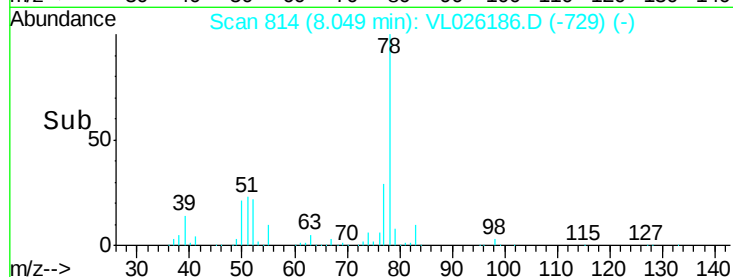
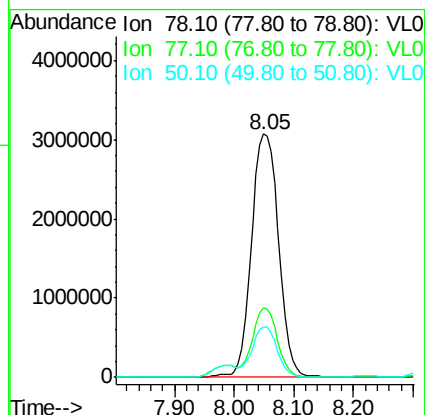
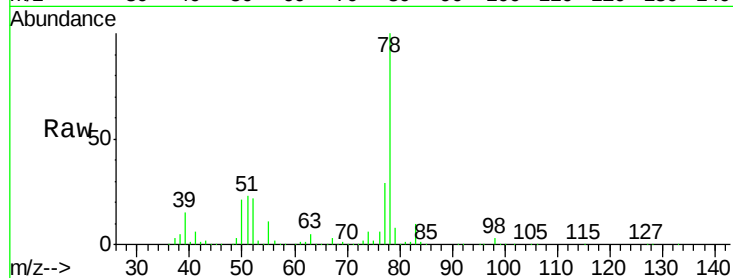




#36
Benzene
Concen: 62.30 ppbv
RT: 8.05 min Scan# 814
Delta R.T. 0.02 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

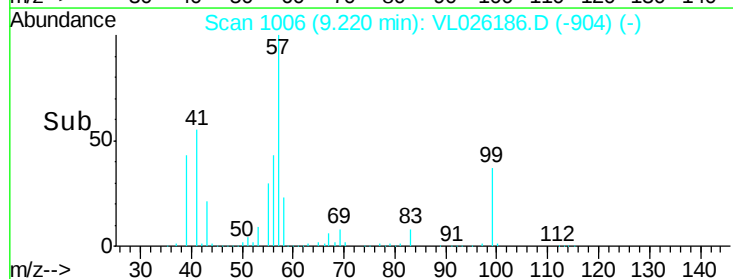
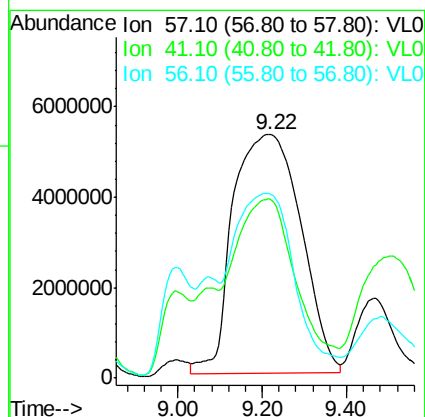
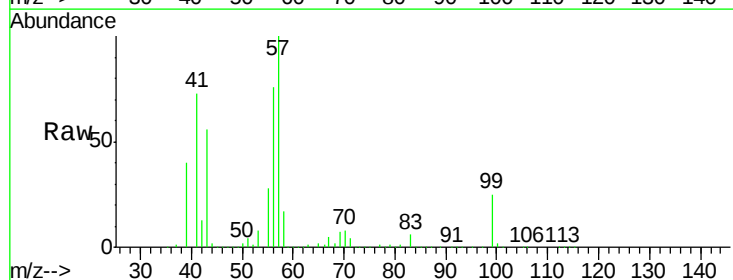
Instrument :
MSVOA_L
ClientSampleId :
SS-1

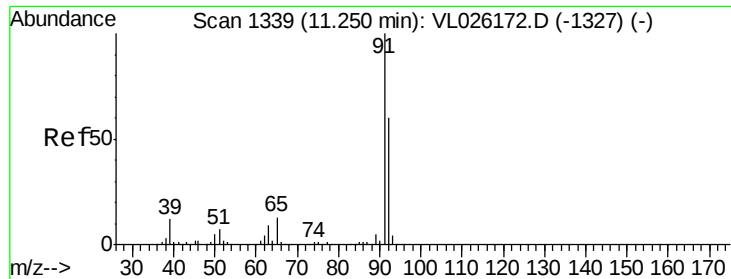
Tot Ion: 78 Resp: 9757302
Ion Ratio Lower Upper
78 100
77 28.5 18.2 27.4#
50 20.8 13.4 20.2#



#44
2,2,4-Trimethylpentane
Concen: 225.39 ppbv
RT: 9.22 min Scan# 1006
Delta R.T. 0.12 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion: 57 Resp: 58695785
Ion Ratio Lower Upper
57 100
41 59.4 23.7 35.5#
56 69.4 26.4 39.6#





#53

Toluene

Concen: 252.55 ppbv

RT: 11.37 min Scan# 1359

Delta R.T. 0.12 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampled :

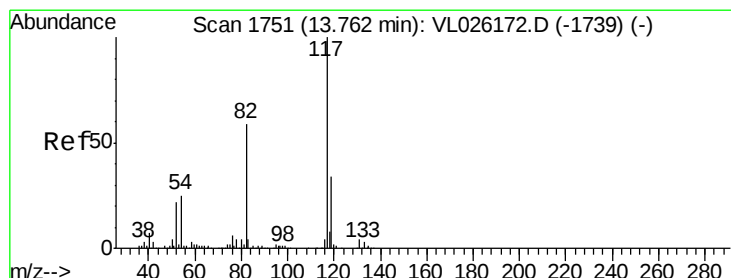
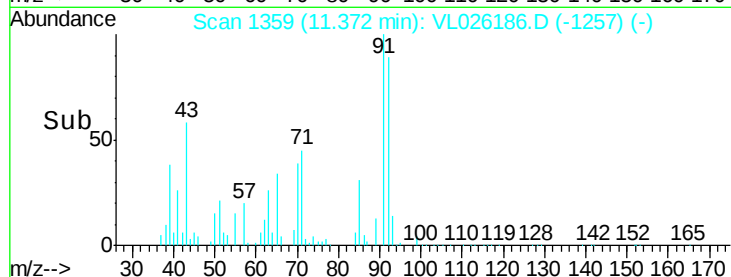
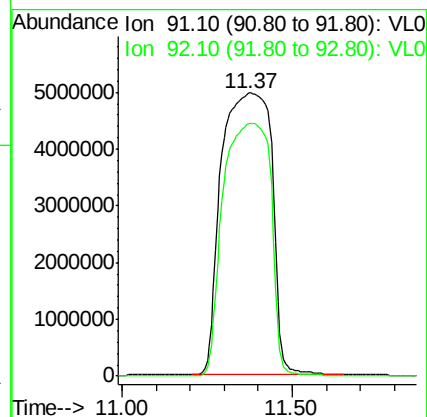
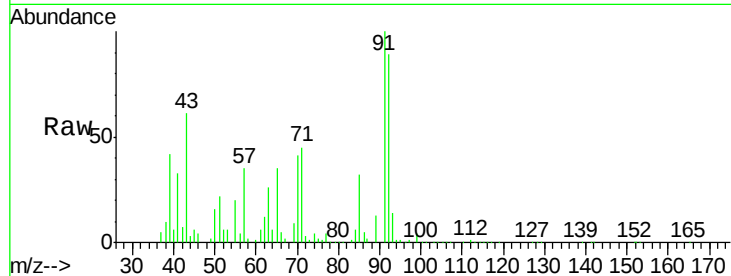
SS-1

Tot Ion: 91 Resp:50971675

Ion Ratio Lower Upper

91 100

92 84.8 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.85 min Scan# 1766

Delta R.T. 0.09 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

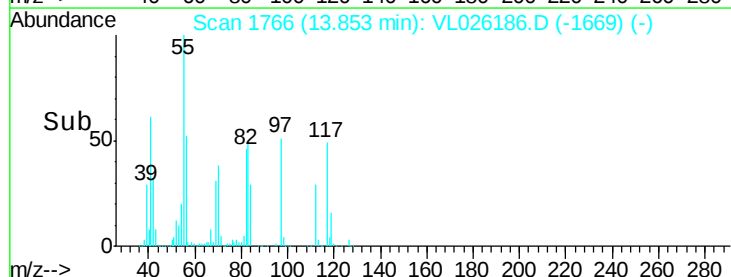
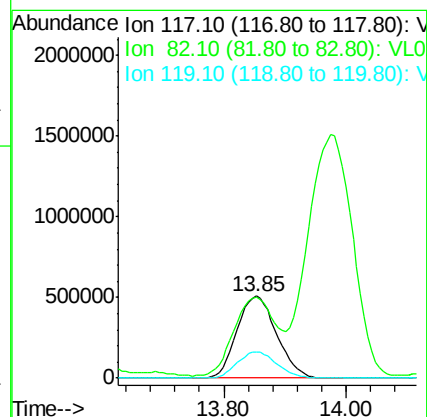
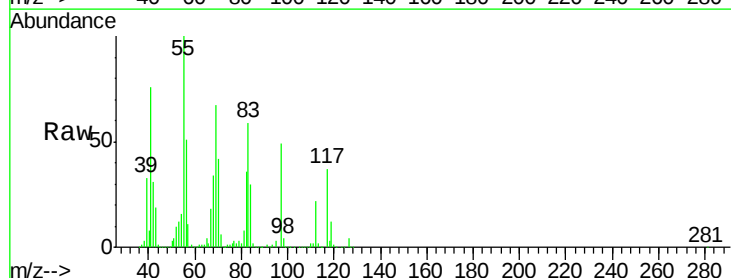
Tgt Ion:117 Resp: 2273376

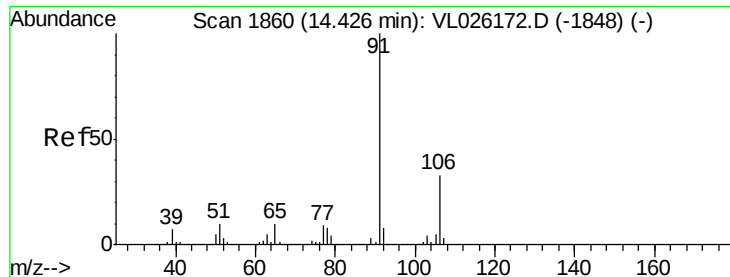
Ion Ratio Lower Upper

117 100

82 102.5 47.7 71.5#

119 32.1 43.7 65.5#





#58

Ethyl Benzene

Concen: 86.85 ppbv

RT: 14.54 min Scan# 1879

Delta R.T. 0.12 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampleId :

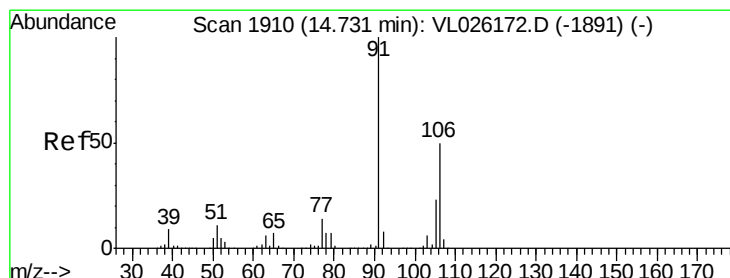
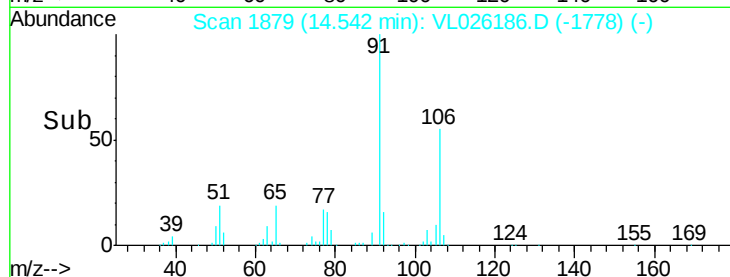
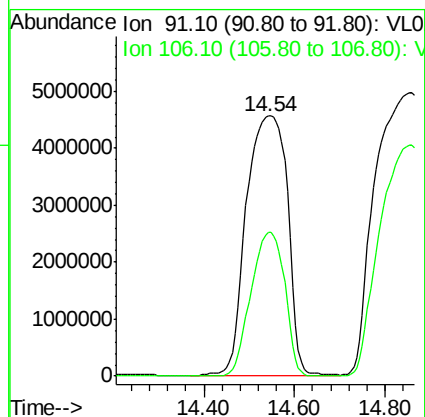
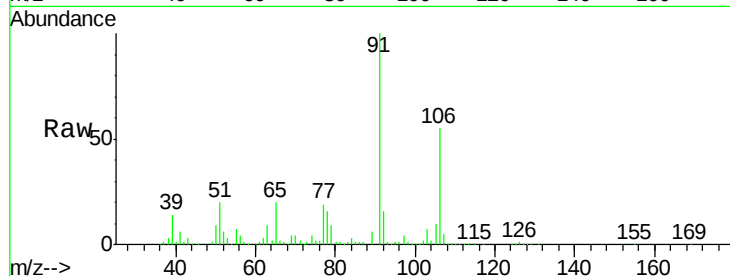
SS-1

Tot Ion: 91 Resp:28680659

Ion Ratio Lower Upper

91 100

106 55.2 26.1 39.1#



#59

m/p-Xylene

Concen: 150.01 ppbv

RT: 14.85 min Scan# 1930

Delta R.T. 0.12 min

Lab File: VL026186.D

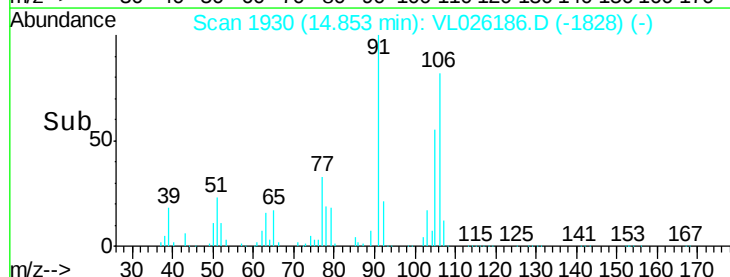
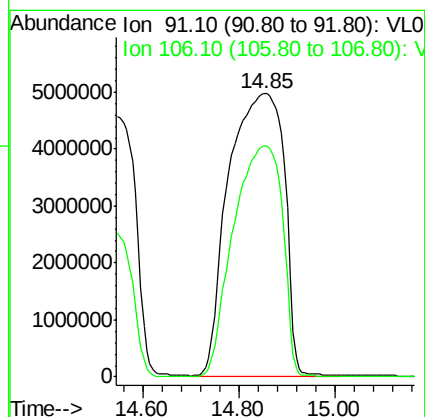
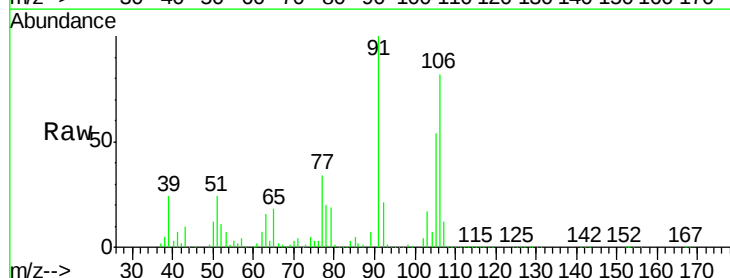
Acq: 9 Oct 2015 21:35

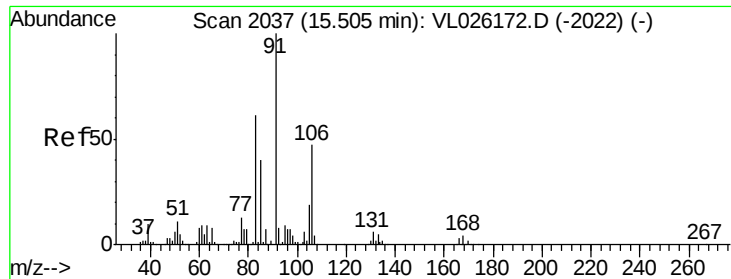
Tgt Ion: 91 Resp:39751949

Ion Ratio Lower Upper

91 100

106 72.6 40.2 60.4#

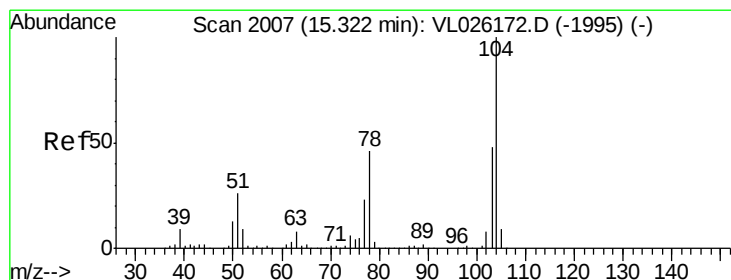
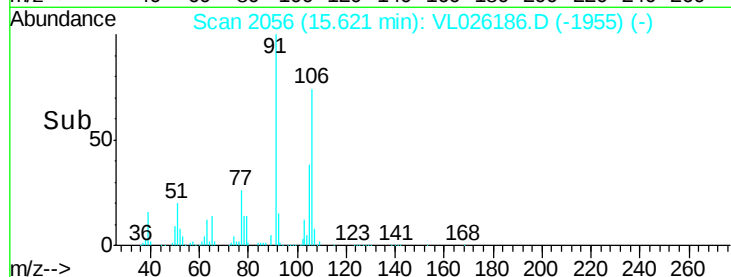
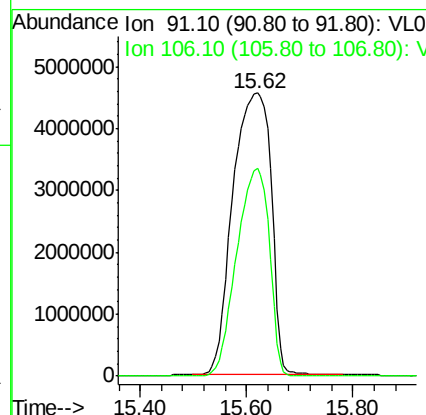
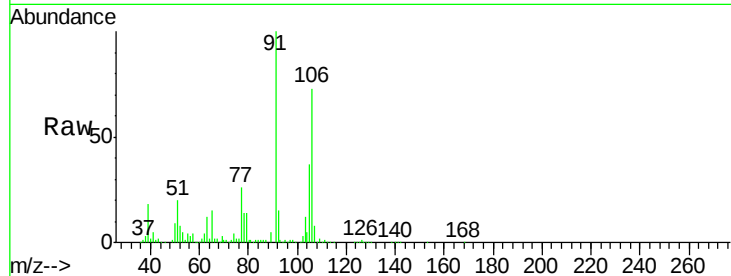




#60
o-Xylene
Concen: 81.76 ppbv
RT: 15.62 min Scan# 2056
Delta R.T. 0.12 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

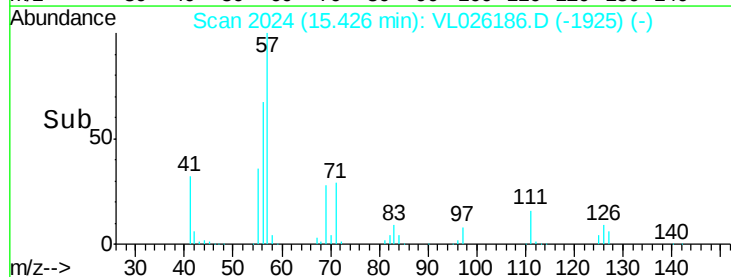
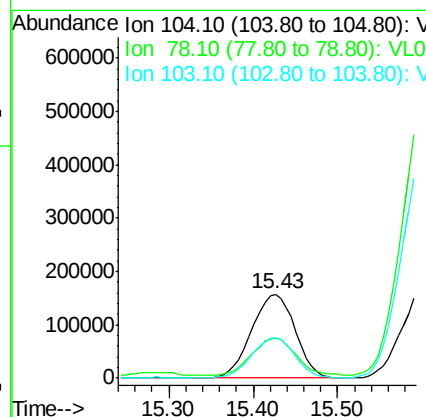
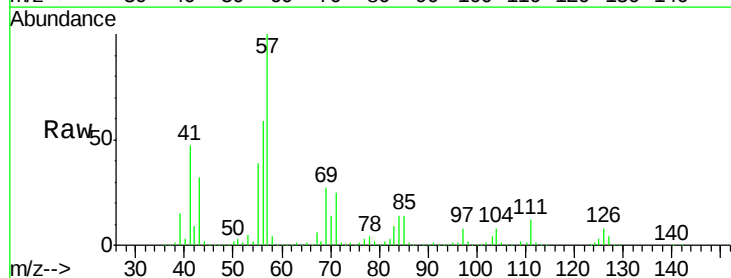
Instrument :
MSVOA_L
ClientSampled :
SS-1

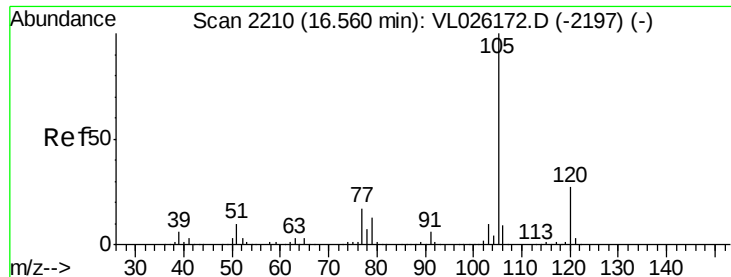
Tot Ion: 91 Resp: 22704393
Ion Ratio Lower Upper
91 100
106 63.0 23.4 70.3



#61
Styrene
Concen: 4.86 ppbv
RT: 15.43 min Scan# 2024
Delta R.T. 0.10 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion: 104 Resp: 552444
Ion Ratio Lower Upper
104 100
78 44.7 36.1 54.1
103 47.0 37.5 56.3





#62

Isopropylbenzene

Concen: 11.74 ppbv

RT: 16.63 min Scan# 2222

Delta R.T. 0.07 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampleId :

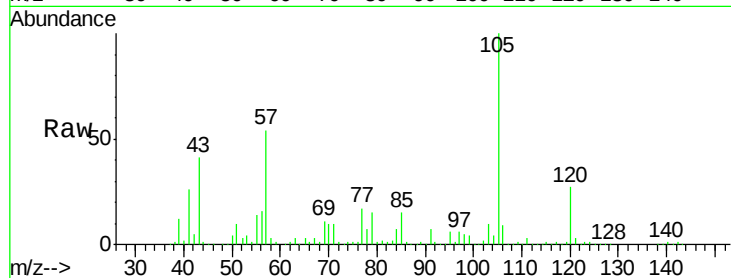
SS-1

Tot Ion:105 Resp: 4298837

Ion Ratio Lower Upper

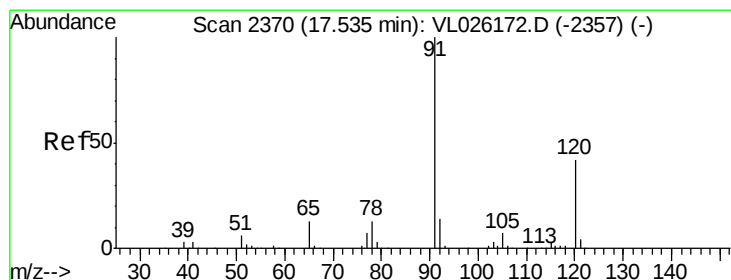
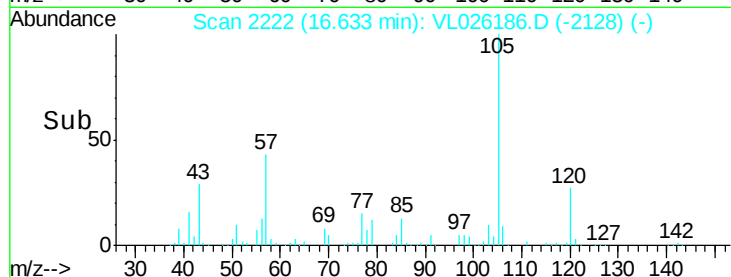
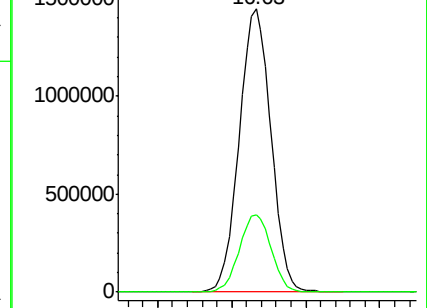
105 100

120 27.7 21.8 32.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 17.69 ppbv

RT: 17.60 min Scan# 2380

Delta R.T. 0.06 min

Lab File: VL026186.D

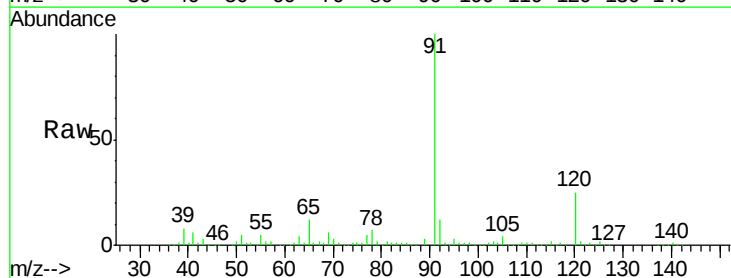
Acq: 9 Oct 2015 21:35

Tgt Ion:120 Resp: 1743825

Ion Ratio Lower Upper

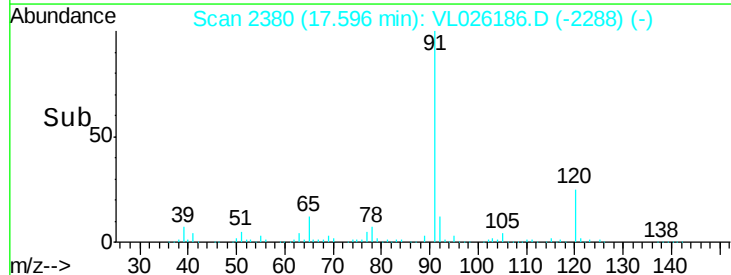
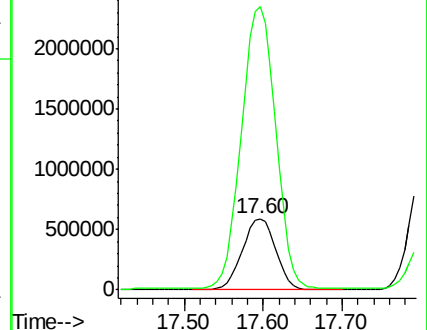
120 100

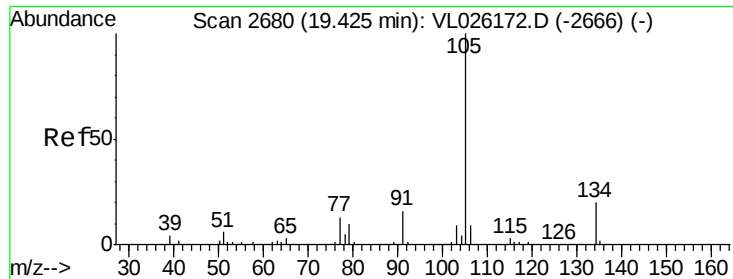
91 408.2 353.4 530.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

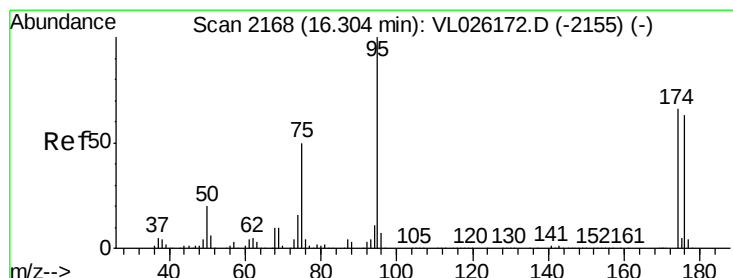
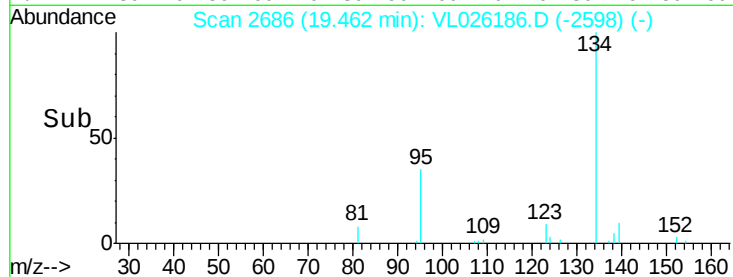
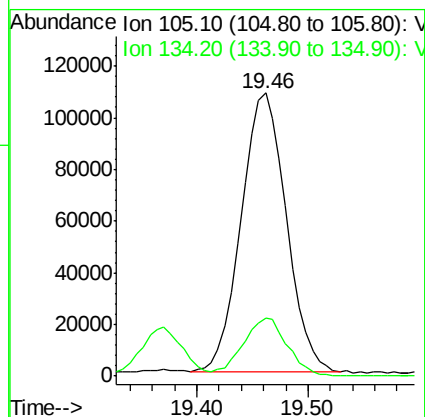
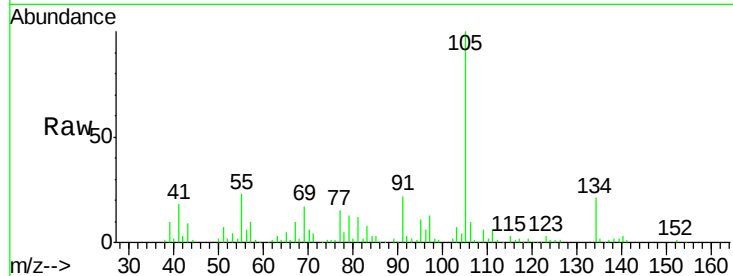




#67
 sec-Butylbenzene
 Concen: 0.68 ppbv
 RT: 19.46 min Scan# 2686
 Delta R.T. 0.04 min
 Lab File: VL026186.D
 Acq: 9 Oct 2015 21:35

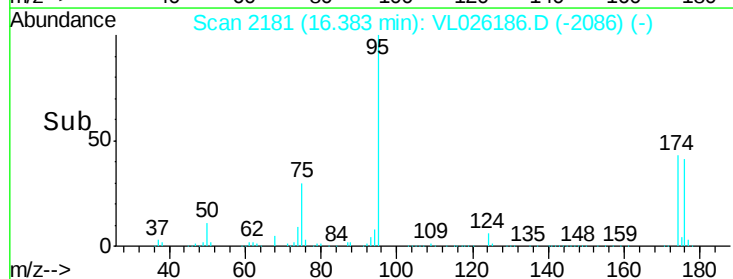
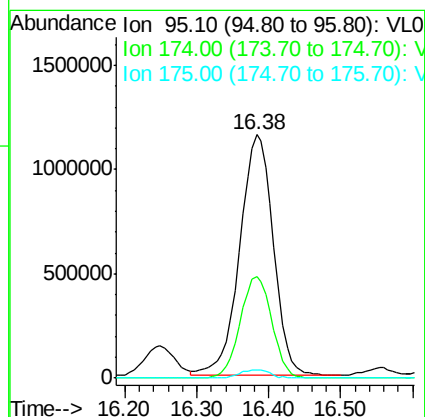
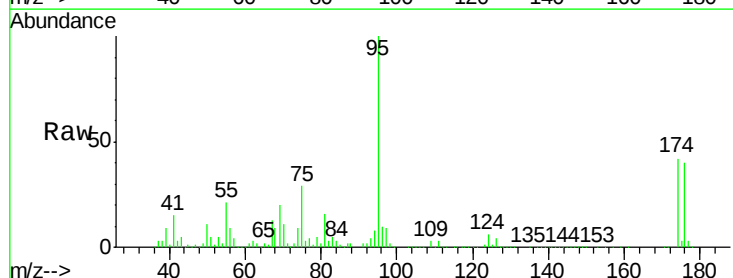
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

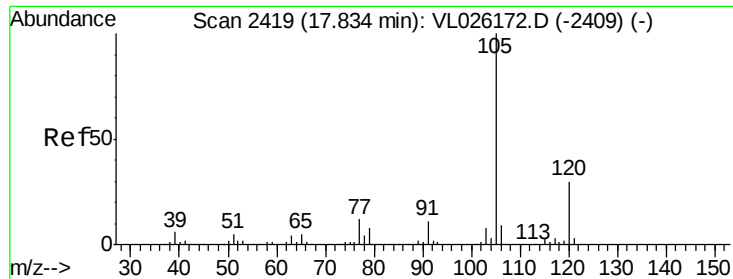
Tot Ion:105 Resp: 304610
 Ion Ratio Lower Upper
 105 100
 134 20.1 15.9 23.9



#68
 1-Bromo-4-Fluorobenzene
 Concen: 21.38 ppbv
 RT: 16.38 min Scan# 2181
 Delta R.T. 0.08 min
 Lab File: VL026186.D
 Acq: 9 Oct 2015 21:35

Tgt Ion: 95 Resp: 3731307
 Ion Ratio Lower Upper
 95 100
 174 39.9 52.2 78.4#
 175 3.1 3.9 5.9#

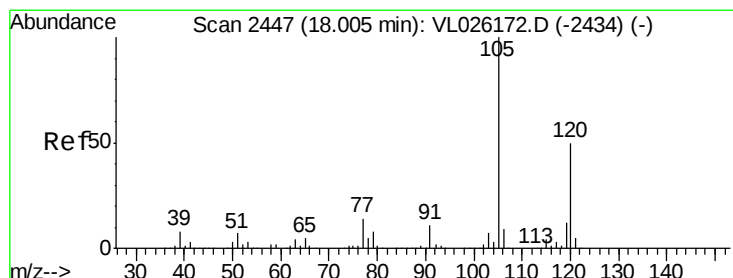
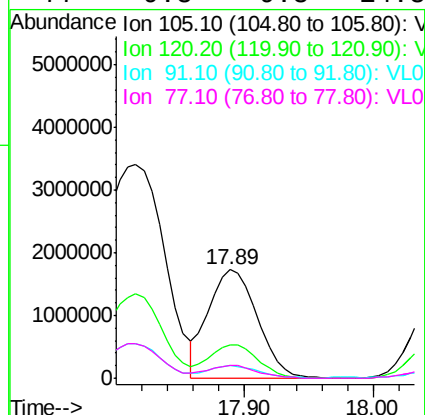
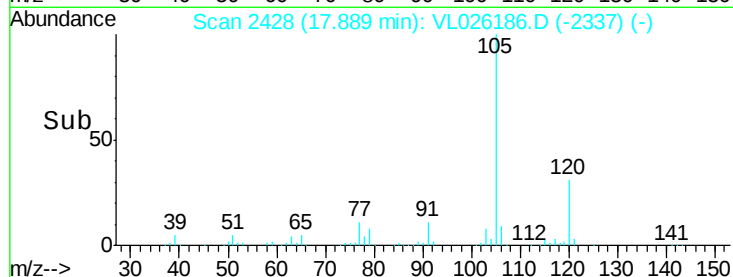
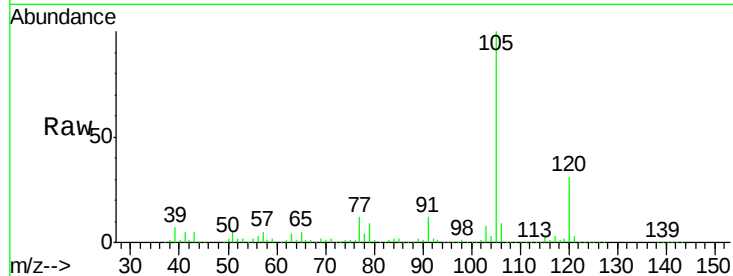




#72
4-Ethyltoluene
Concen: 15.47 ppbv
RT: 17.89 min Scan# 2428
Delta R.T. 0.05 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

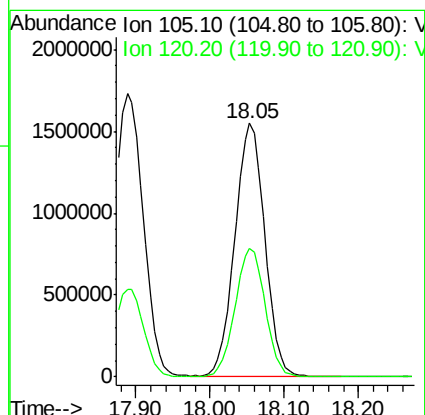
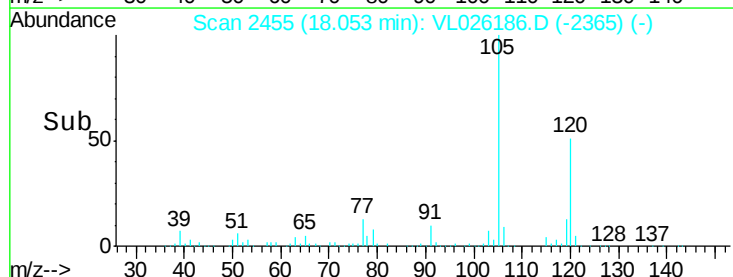
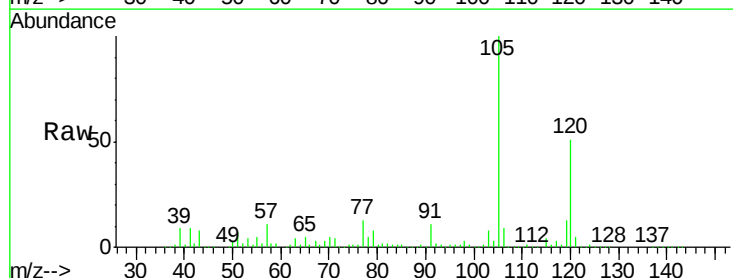
Instrument :
MSVOA_L
ClientSampleId :
SS-1

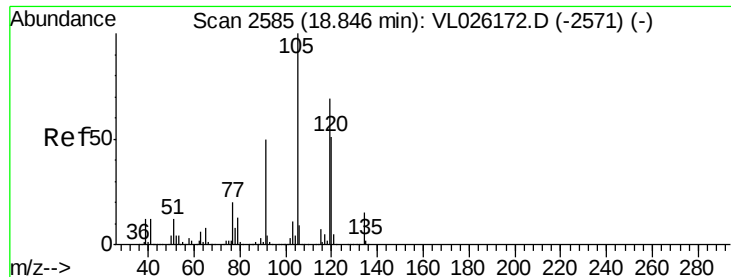
Tot Ion:105 Resp: 4583823
Ion Ratio Lower Upper
105 100
120 27.1 24.7 37.1
91 9.1 9.2 13.8#
77 9.8 9.8 14.8#



#73
1,3,5-Trimethylbenzene
Concen: 15.63 ppbv
RT: 18.05 min Scan# 2455
Delta R.T. 0.05 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion:105 Resp: 4353036
Ion Ratio Lower Upper
105 100
120 50.8 40.1 60.1





#74

1,2,4-Trimethylbenzene

Concen: 20.47 ppbv

RT: 18.89 min Scan# 2592

Delta R.T. 0.04 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion:105 Resp: 5977982

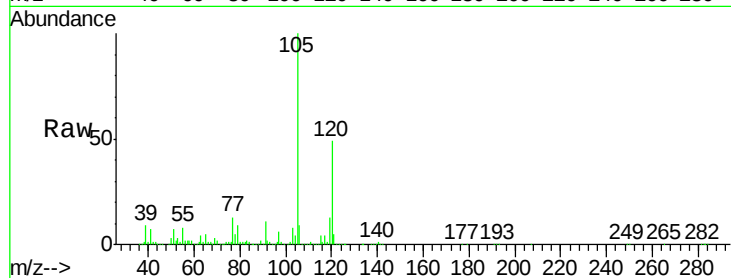
Ion Ratio Lower Upper

105 100

120 49.0 41.1 61.7

91 10.7 39.8 59.6#

77 13.2 16.3 24.5#

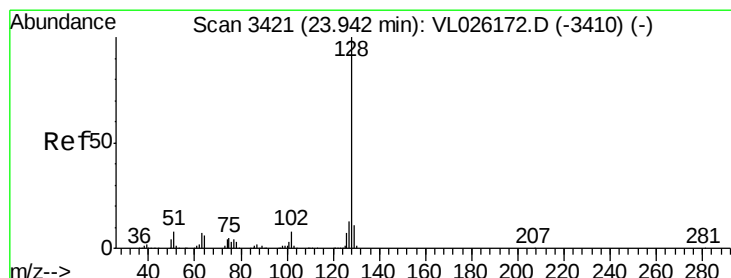
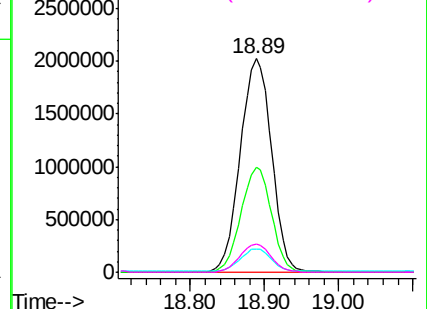
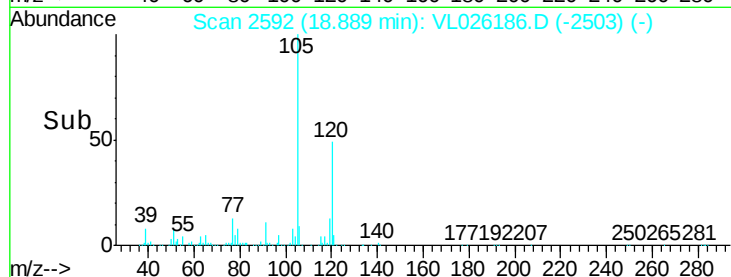


Abundance Ion 105.10 (104.80 to 105.80): V

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



#79

Naphthalene

Concen: 0.16 ppbv

RT: 23.95 min Scan# 3423

Delta R.T. 0.01 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

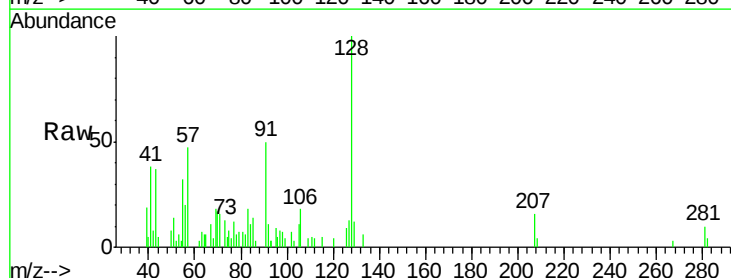
Tgt Ion:128 Resp: 28663

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.2

129 11.9 8.7 13.1



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

