

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026218.D
 Acq On : 20 Oct 2015 23:07
 Operator : SY/MD
 Sample : G3973-01DL 60X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Quant Time: Oct 22 11:11:30 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Oct 20 20:24:48 2015
 QLast Update : Tue Oct 20 20:24:48 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	480272	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.31	114	1505955	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.74	117	1813157	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.27	95	1633265	11.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	116.80%

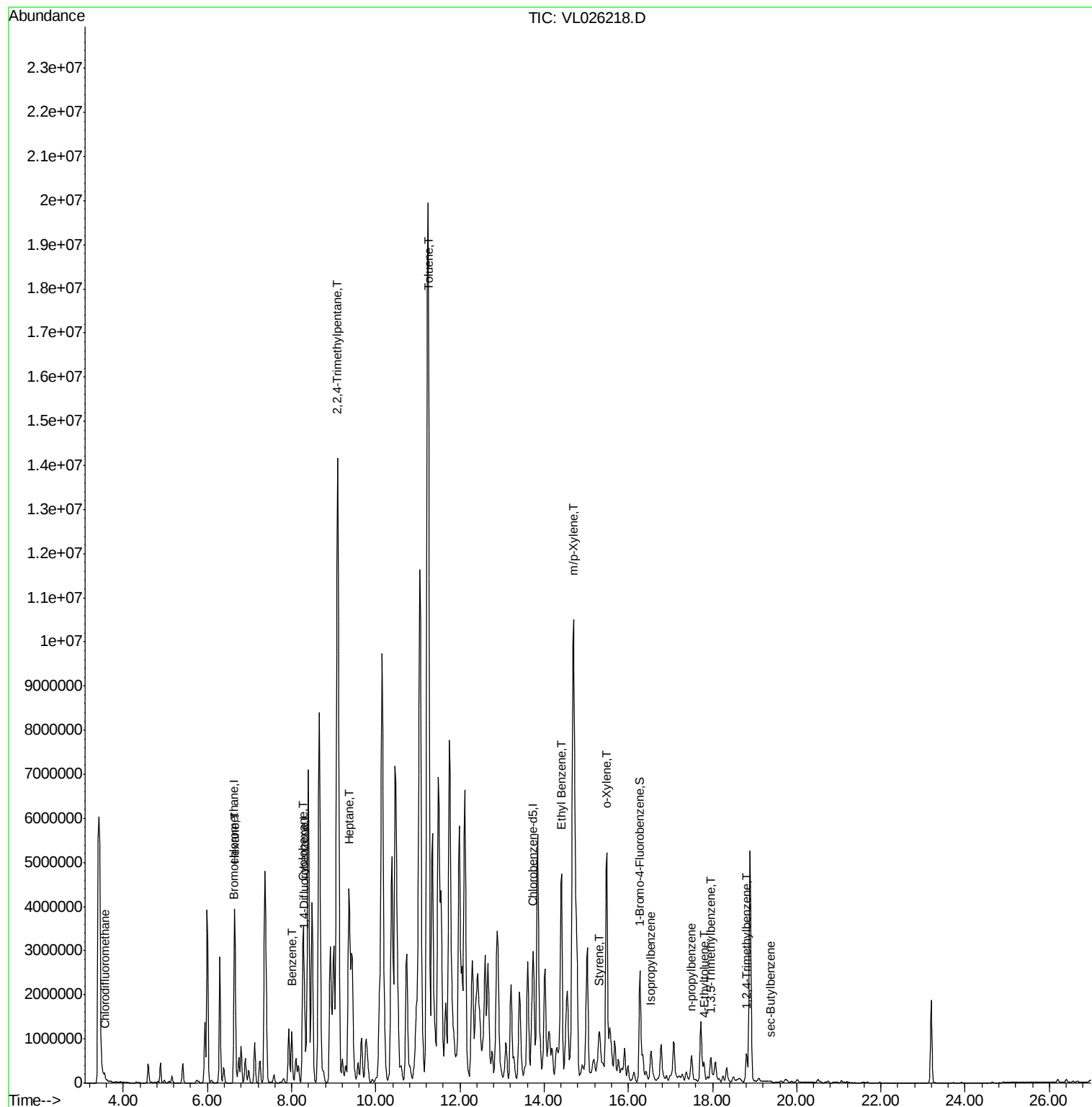
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.56	51	103268	1.70	ppbv	99
10) Heptane	9.36	43	2764086	29.00	ppbv	99
26) Hexane	6.65	57	1832263	27.66	ppbv #	44
30) Cyclohexane	8.27	84	1760102	26.57	ppbv	97
36) Benzene	8.00	78	1047588	6.83	ppbv	99
44) 2,2,4-Trimethylpentane	9.10	57	18504465	74.51	ppbv #	58
53) Toluene	11.25	91	16260001	77.95	ppbv	87
58) Ethyl Benzene	14.41	91	5933295	20.19	ppbv	99
59) m/p-Xylene	14.69	91	13569934	58.99	ppbv	98
60) o-Xylene	15.49	91	5237784	21.78	ppbv	100
61) Styrene	15.30	104	54613	0.50	ppbv #	90
62) Isopropylbenzene	16.54	105	436067	1.30	ppbv	99
64) n-propylbenzene	17.50	120	165833	1.80	ppbv	94
67) sec-Butylbenzene	19.39	105	35528	0.08	ppbv	99
72) 4-Ethyltoluene	17.80	105	430197	1.54	ppbv	98
73) 1,3,5-Trimethylbenzene	17.96	105	413985	1.59	ppbv	100
74) 1,2,4-Trimethylbenzene	18.80	105	594499	2.20	ppbv #	73

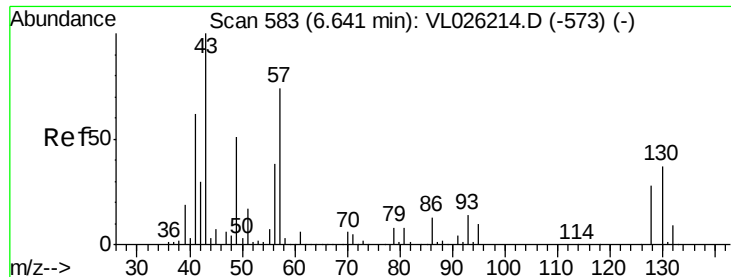
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
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Quant Time: Oct 22 11:11:30 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 20:24:48 2015
QLast Update : Tue Oct 20 20:24:48 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 581

Delta R.T. -0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

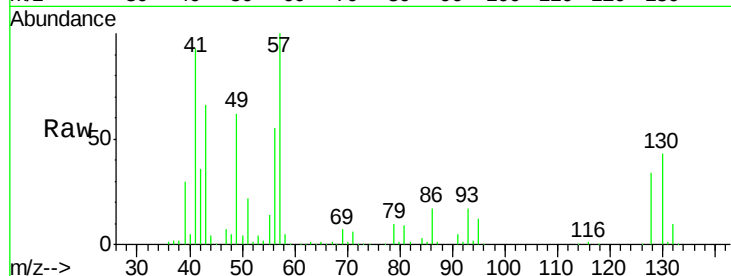
Tot Ion: 49 Resp: 480272

Ion Ratio Lower Upper

49 100

128 56.4 28.2 84.7

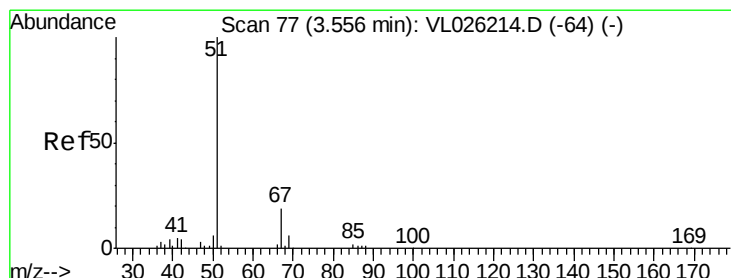
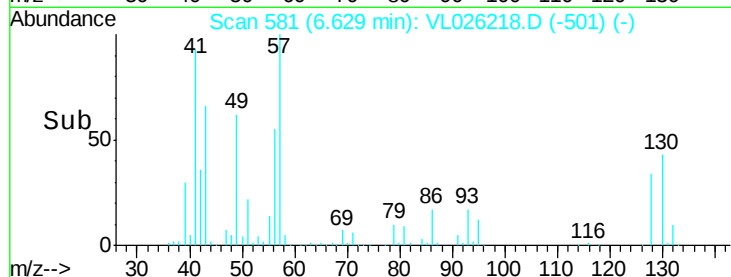
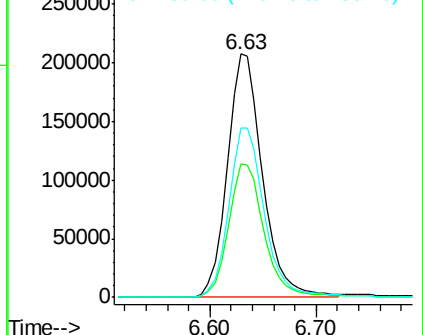
130 72.1 36.0 108.1



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: 1.70 ppbv

RT: 3.56 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL026218.D

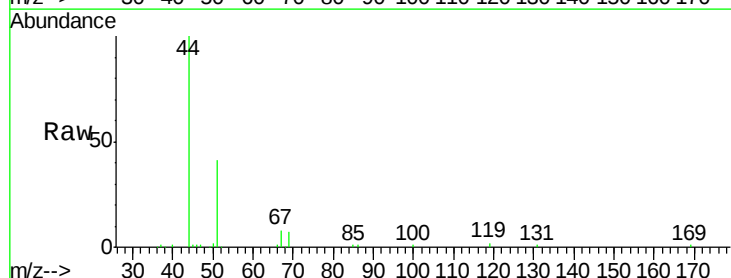
Acq: 20 Oct 2015 23:07

Tgt Ion: 51 Resp: 103268

Ion Ratio Lower Upper

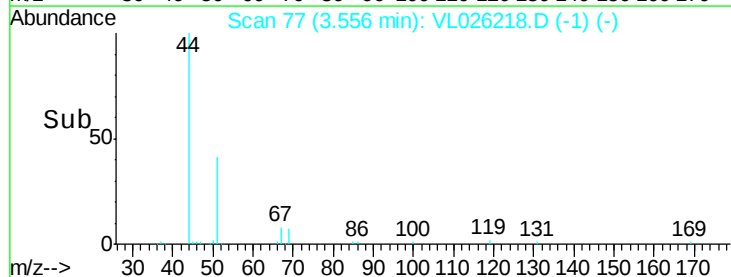
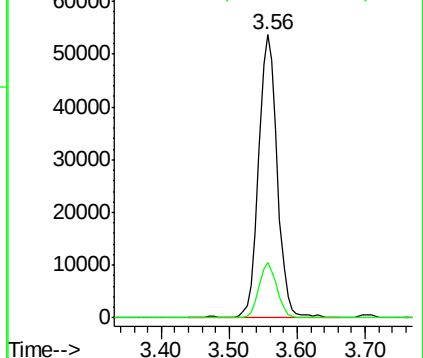
51 100

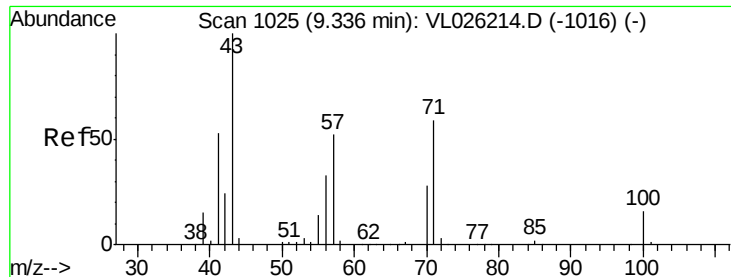
67 18.6 15.3 22.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

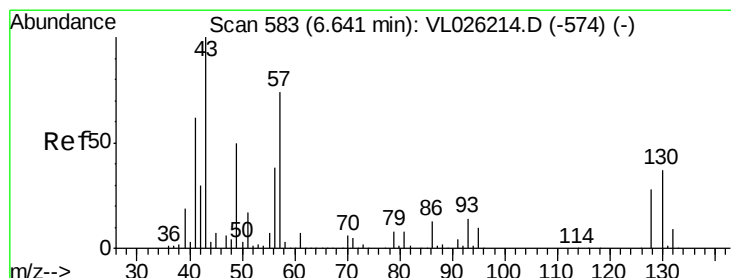
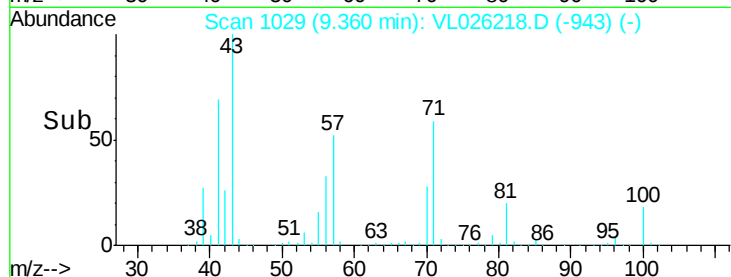
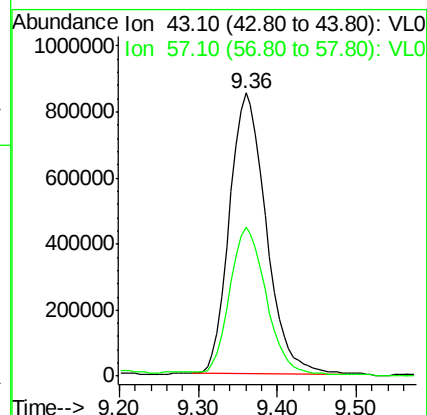
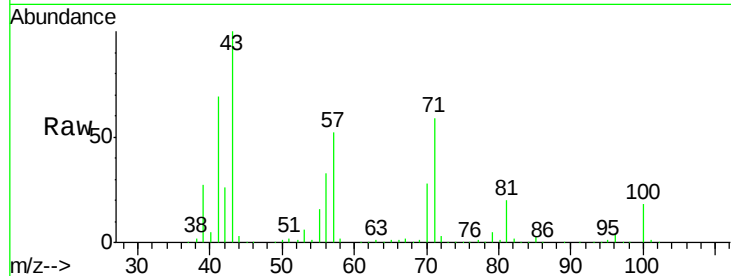




#10
Heptane
Concen: 29.00 ppbv
RT: 9.36 min Scan# 1029
Delta R.T. 0.02 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

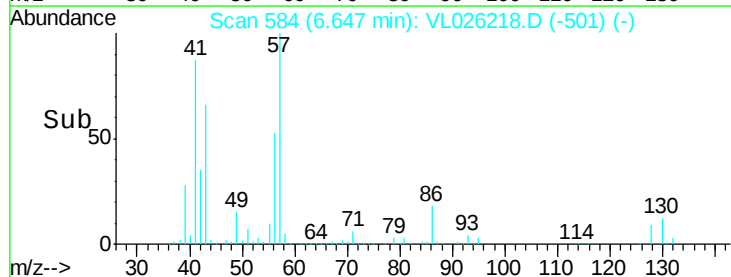
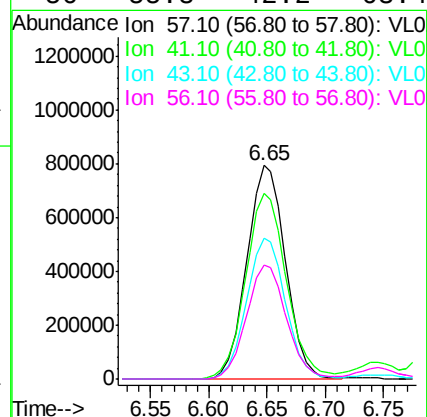
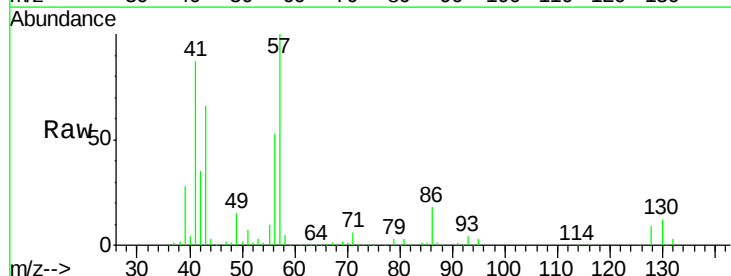
Instrument :
MSVOA_L
ClientSampled :
SS-1DL

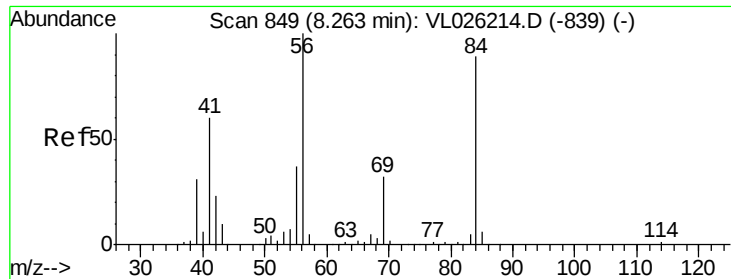
Tot Ion: 43 Resp: 2764086
Ion Ratio Lower Upper
43 100
57 54.2 43.7 65.5



#26
Hexane
Concen: 27.66 ppbv
RT: 6.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Tgt Ion: 57 Resp: 1832263
Ion Ratio Lower Upper
57 100
41 92.6 68.1 102.1
43 67.0 163.4 245.2#
56 55.8 42.2 63.4

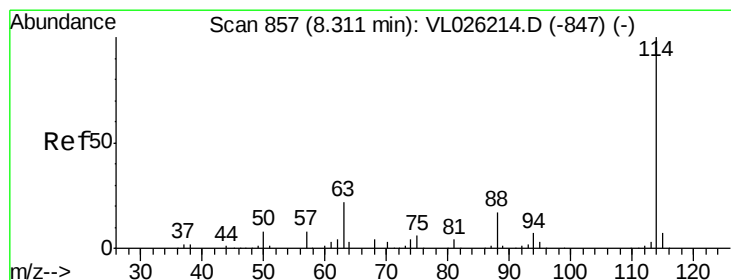
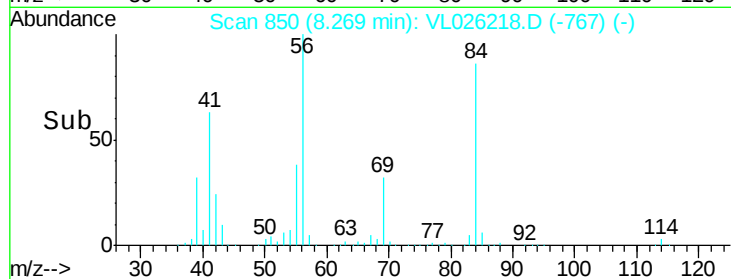
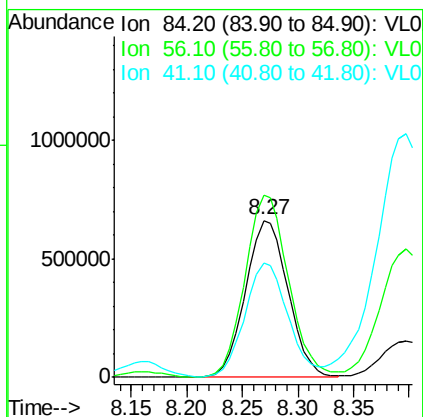
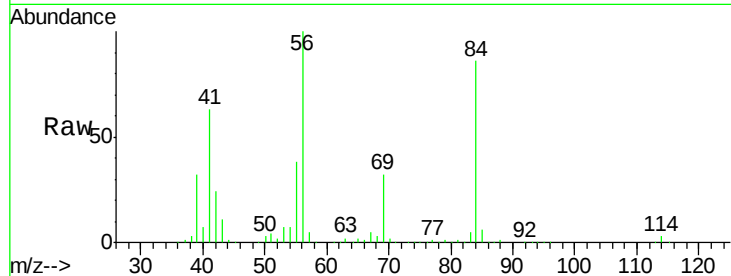




#30
Cvclohexane
Concen: 26.57 ppbv
RT: 8.27 min Scan# 850
Delta R.T. 0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

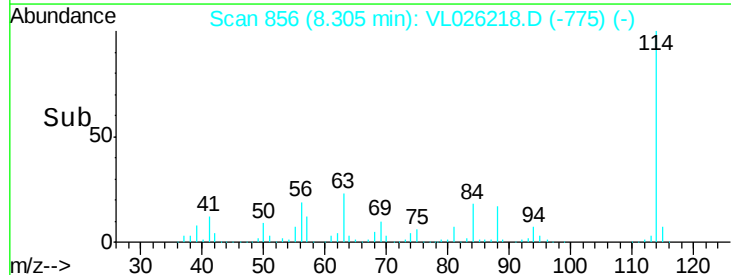
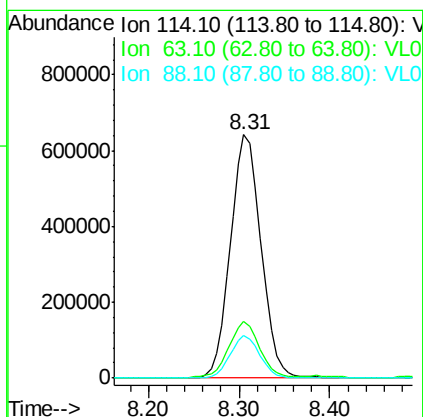
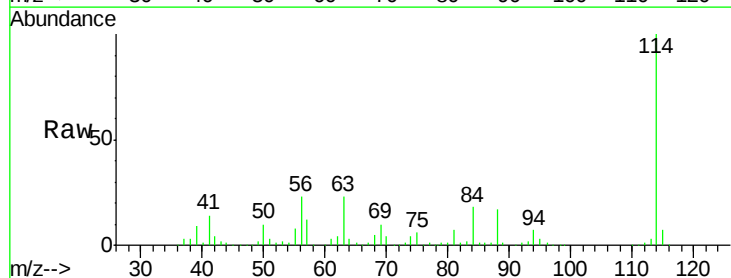
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

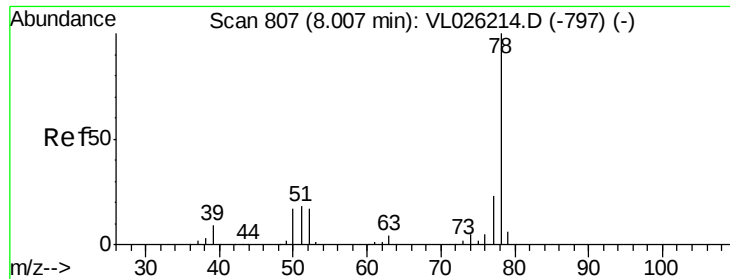
Tot Ion: 84 Resp: 1760102
Ion Ratio Lower Upper
84 100
56 118.6 95.9 143.9
41 72.7 54.8 82.2



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.31 min Scan# 856
Delta R.T. -0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Tgt Ion: 114 Resp: 1505955
Ion Ratio Lower Upper
114 100
63 25.1 18.2 27.4
88 16.9 13.5 20.3



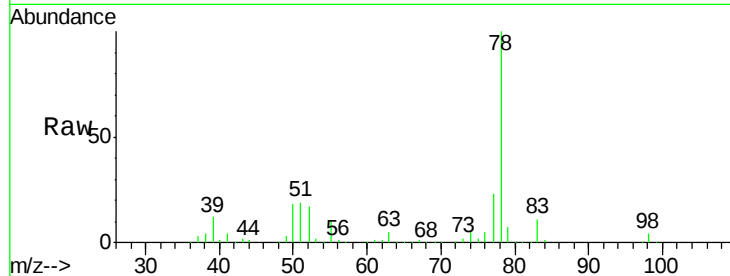


#36
Benzene
Concen: 6.83 ppbv
RT: 8.00 min Scan# 806
Delta R.T. -0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

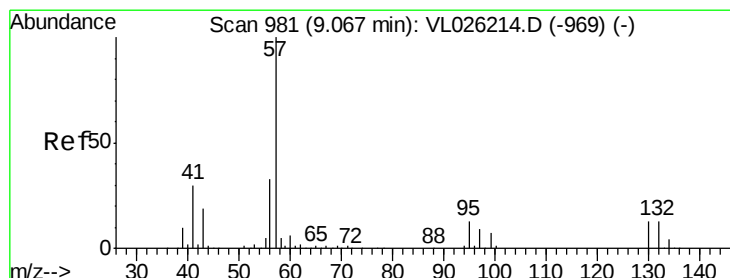
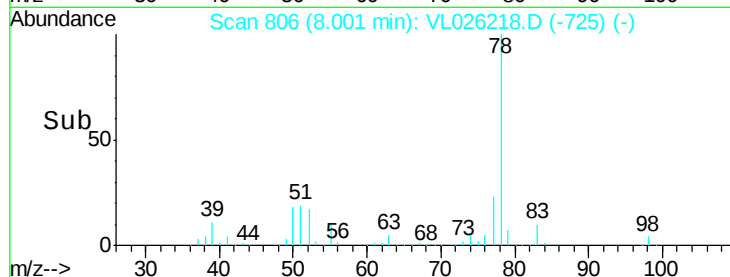
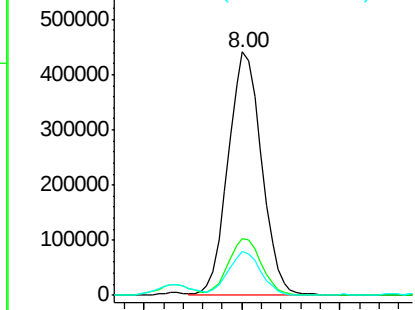
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

Tot Ion: 78 Resp: 1047588

Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.1	27.1
50	17.6	13.8	20.8



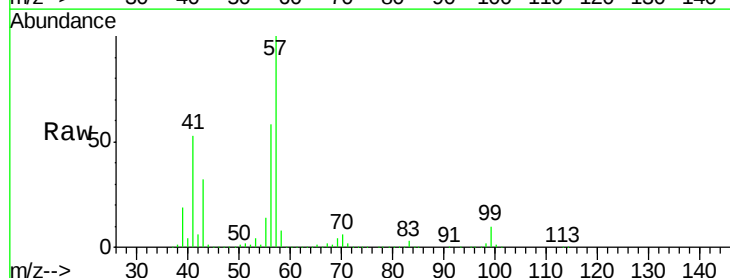
Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



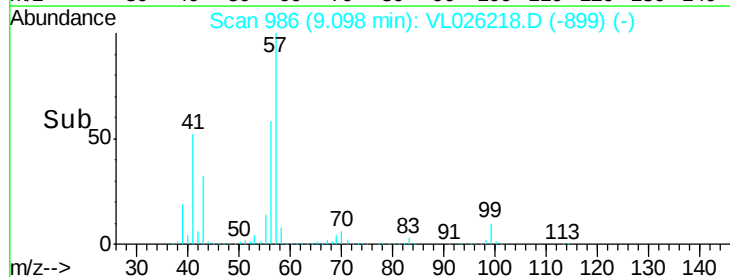
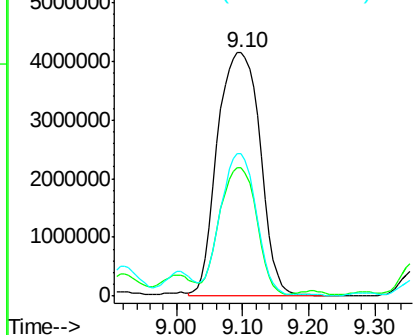
#44
2,2,4-Trimethylpentane
Concen: 74.51 ppbv
RT: 9.10 min Scan# 986
Delta R.T. 0.03 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

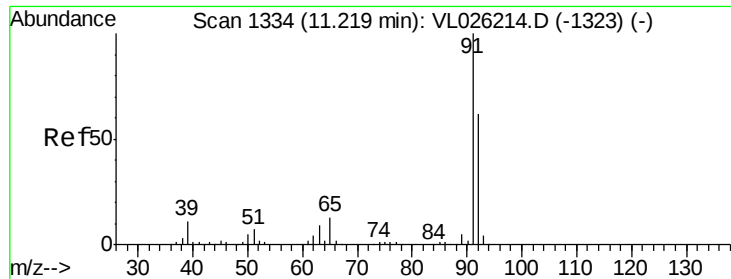
Tgt Ion: 57 Resp: 18504465

Ion	Ratio	Lower	Upper
57	100		
41	51.8	23.7	35.5#
56	56.2	25.9	38.9#



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: 77.95 ppbv

RT: 11.25 min Scan# 1339

Delta R.T. 0.03 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

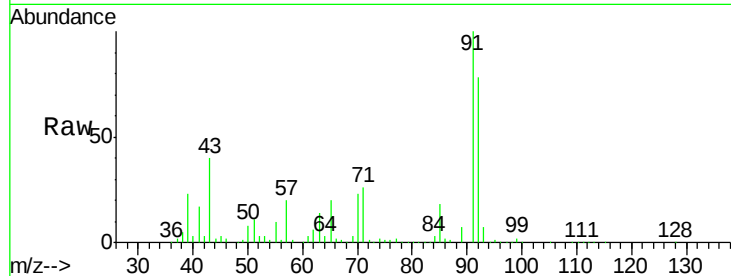
SS-1DL

Tot Ion: 91 Resp:16260001

Ion Ratio Lower Upper

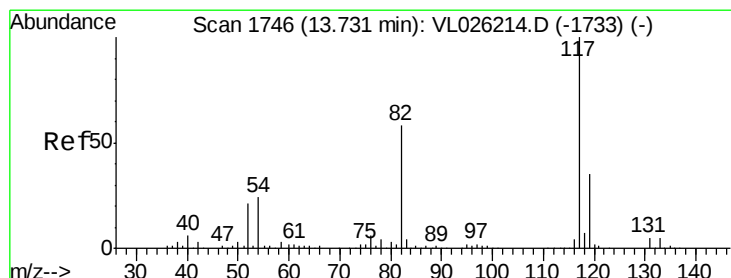
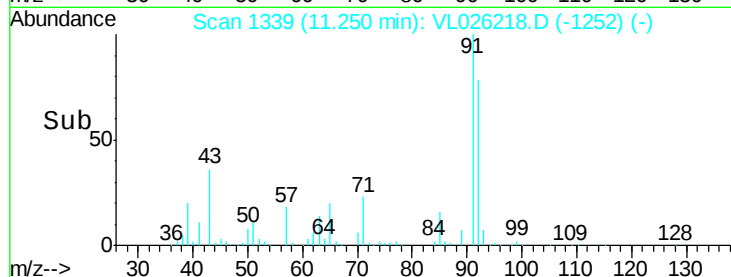
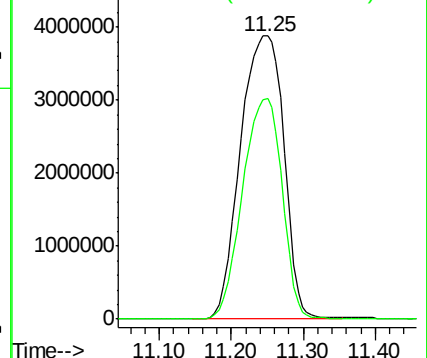
91 100

92 71.4 49.2 73.8



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: 13.74 min Scan# 1747

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

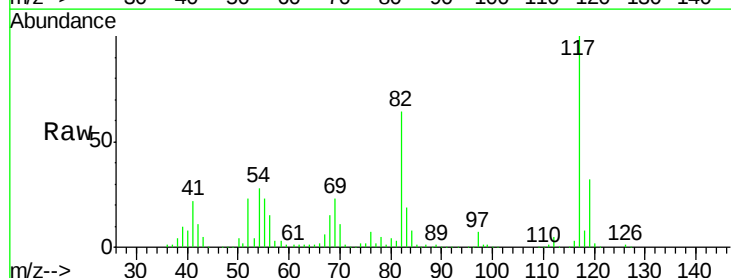
Tgt Ion:117 Resp: 1813157

Ion Ratio Lower Upper

117 100

82 65.3 45.8 68.8

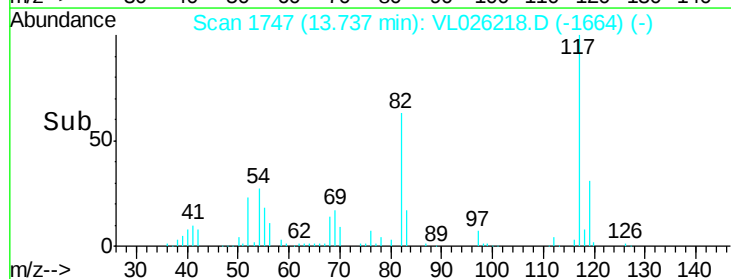
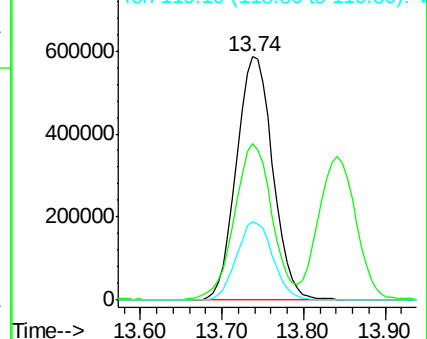
119 32.4 45.0 67.4#

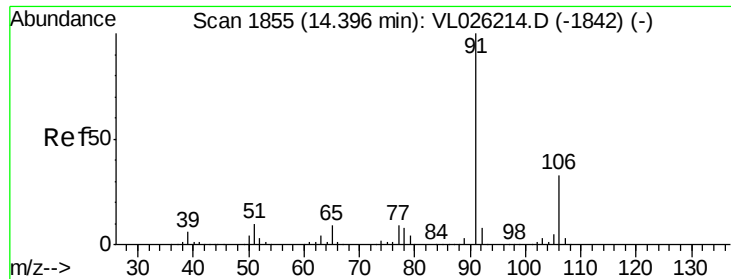


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 20.19 ppbv

RT: 14.41 min Scan# 1857

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

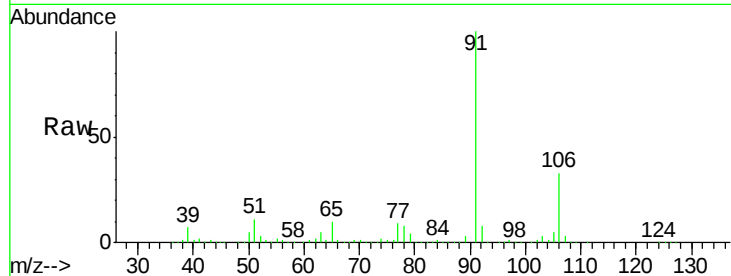
SS-1DL

Tot Ion: 91 Resp: 5933295

Ion Ratio Lower Upper

91 100

106 33.1 26.1 39.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

14.41

2000000

1500000

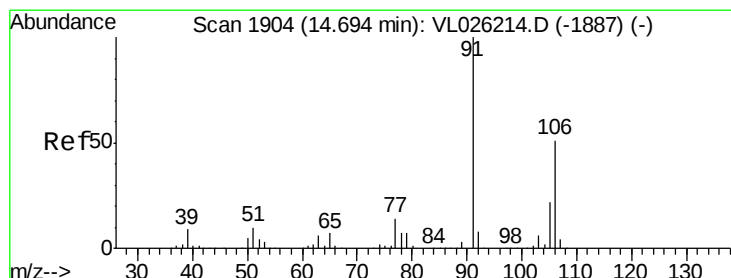
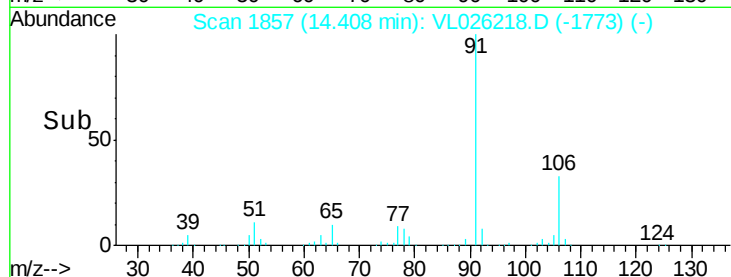
1000000

500000

0

Time-->

14.30 14.40 14.50



#59

m/p-Xylene

Concen: 58.99 ppbv

RT: 14.69 min Scan# 1904

Delta R.T. 0.00 min

Lab File: VL026218.D

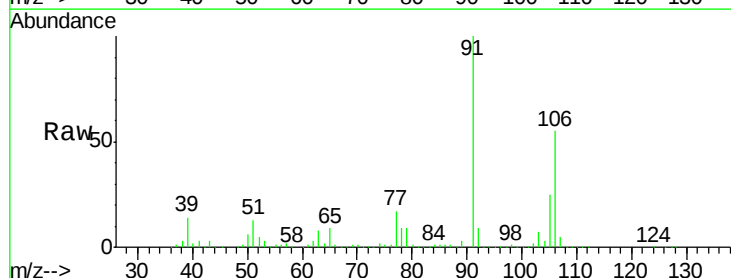
Acq: 20 Oct 2015 23:07

Tgt Ion: 91 Resp: 13569934

Ion Ratio Lower Upper

91 100

106 52.3 40.6 61.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

14.69

3000000

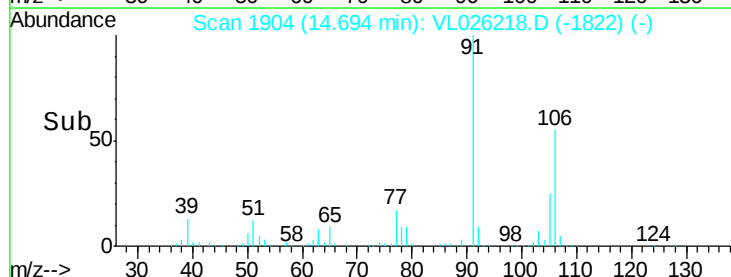
2000000

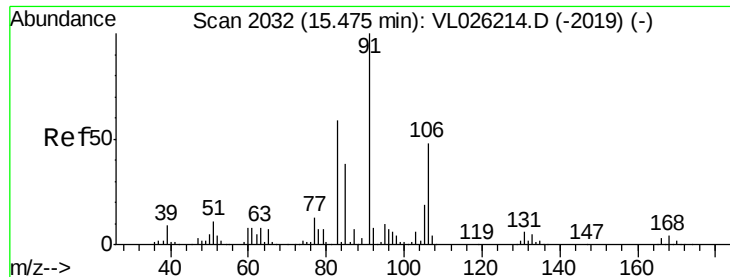
1000000

0

Time-->

14.60 14.80 15.00

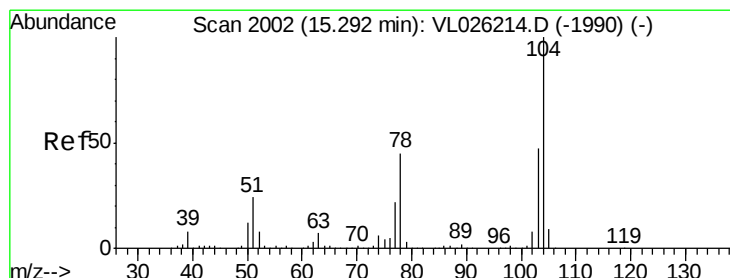
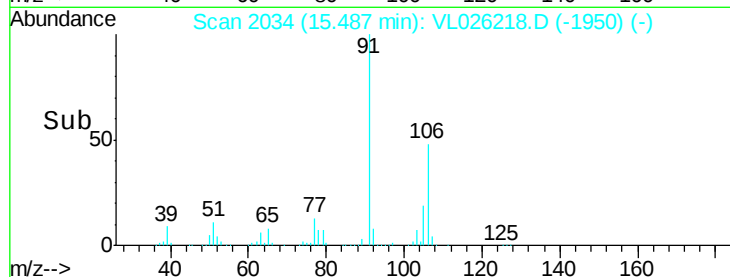
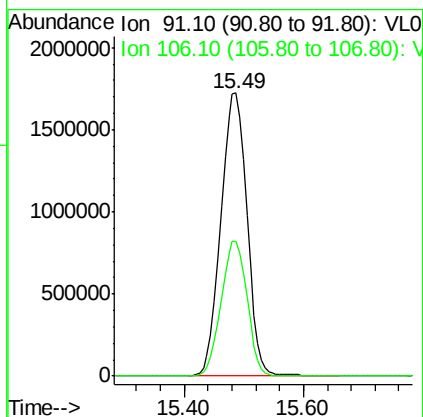
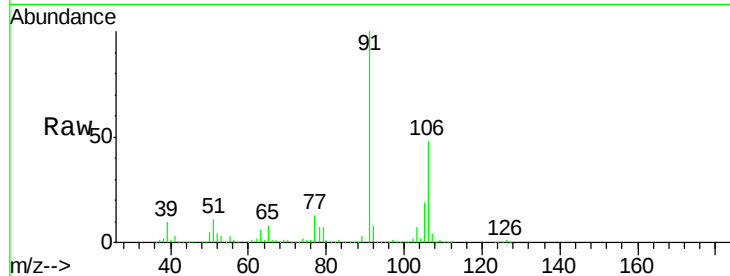




#60
o-Xylene
Concen: 21.78 ppbv
RT: 15.49 min Scan# 2034
Delta R.T. 0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

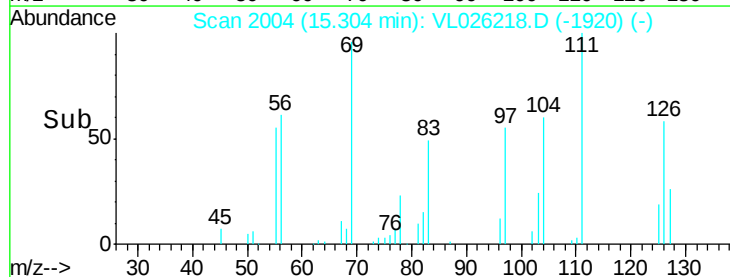
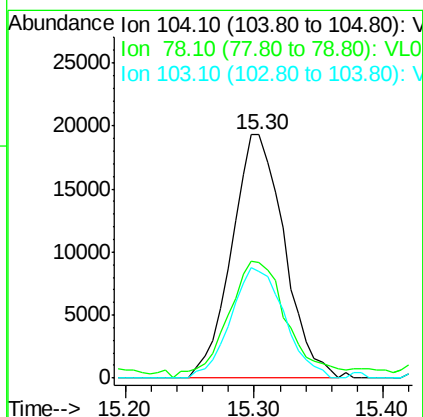
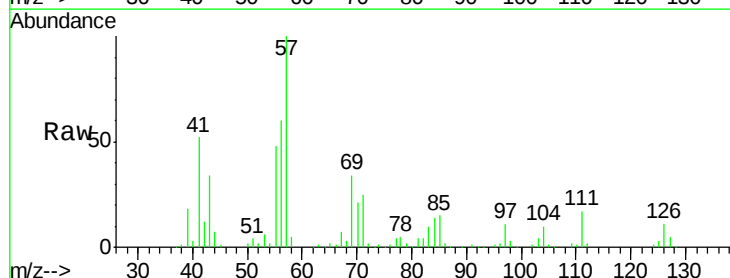
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

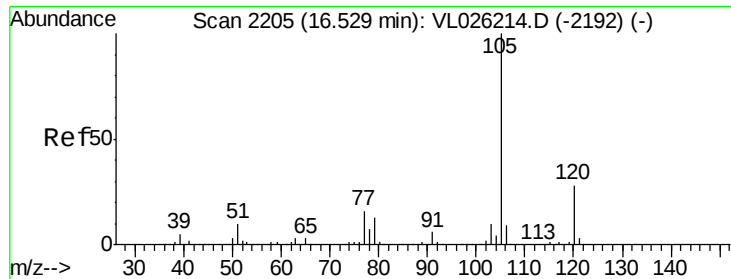
Tot Ion: 91 Resp: 5237784
Ion Ratio Lower Upper
91 100
106 47.8 23.8 71.5



#61
Styrene
Concen: 0.50 ppbv
RT: 15.30 min Scan# 2004
Delta R.T. 0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Tgt Ion: 104 Resp: 54613
Ion Ratio Lower Upper
104 100
78 56.7 35.3 52.9#
103 46.7 37.0 55.4





#62

Isopropylbenzene

Concen: 1.30 ppbv

RT: 16.54 min Scan# 2206

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

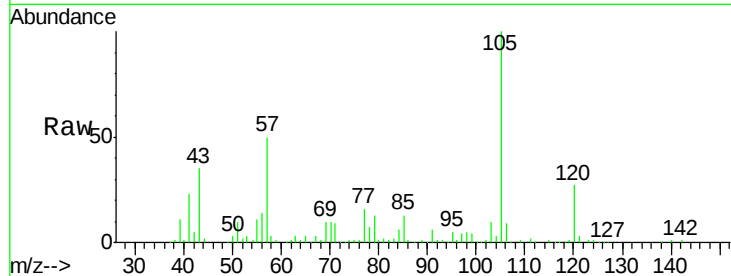
SS-1DL

Tot Ion:105 Resp: 436067

Ion Ratio Lower Upper

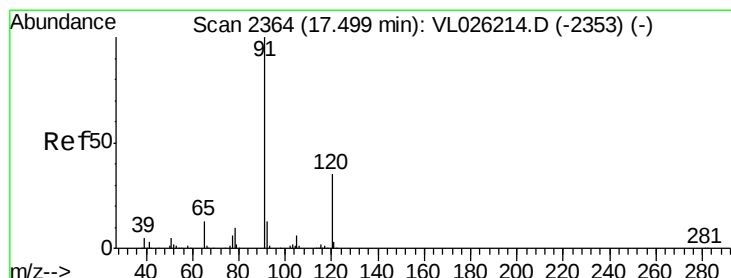
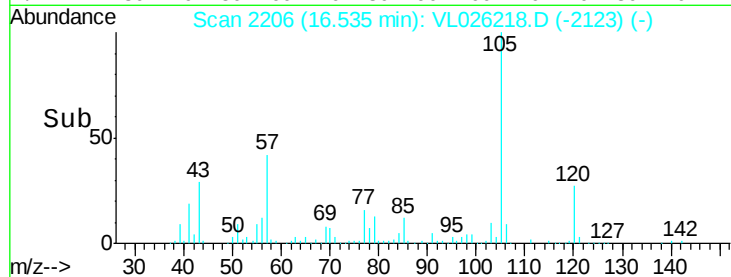
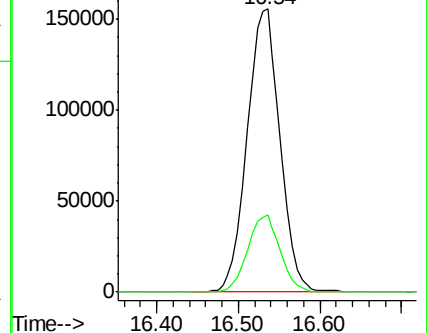
105 100

120 26.8 21.8 32.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 1.80 ppbv

RT: 17.50 min Scan# 2365

Delta R.T. 0.01 min

Lab File: VL026218.D

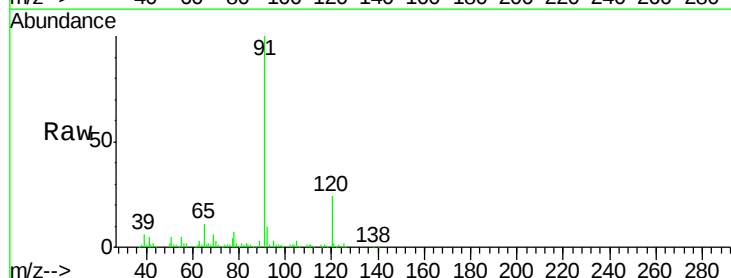
Acq: 20 Oct 2015 23:07

Tgt Ion:120 Resp: 165833

Ion Ratio Lower Upper

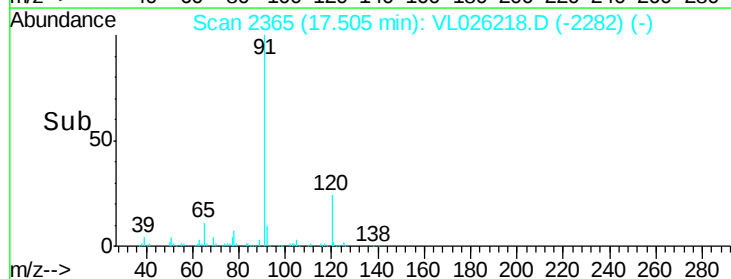
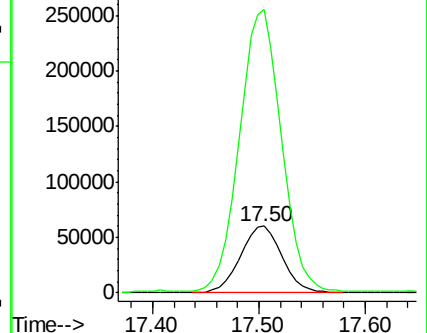
120 100

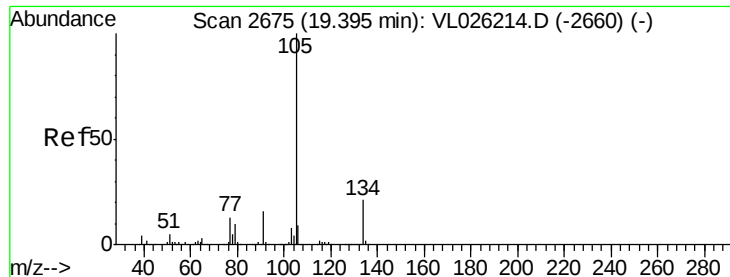
91 429.8 331.7 497.5



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#67

sec-Butylbenzene

Concen: 0.08 ppbv

RT: 19.39 min Scan# 2674

Delta R.T. -0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

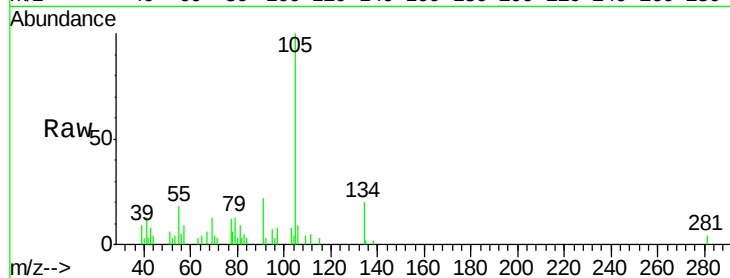
SS-1DL

Tot Ion:105 Resp: 35528

Ion Ratio Lower Upper

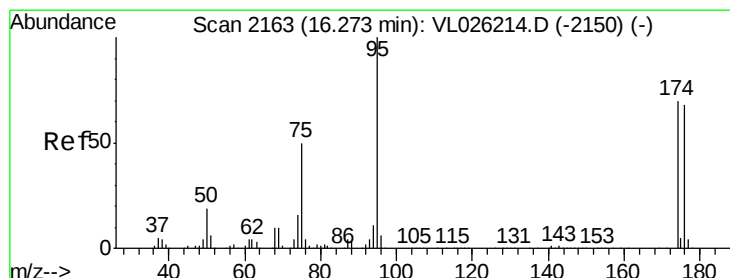
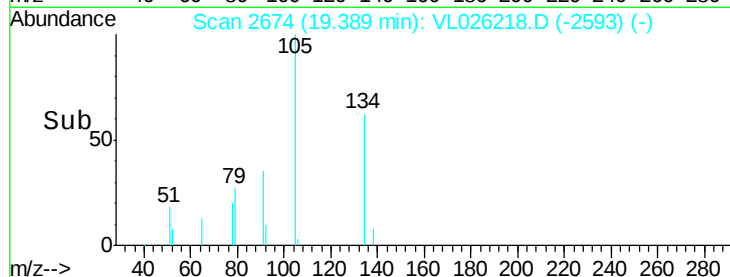
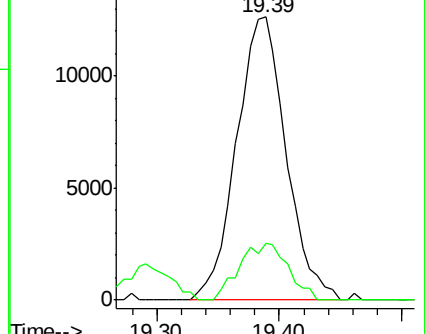
105 100

134 19.7 16.2 24.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 11.68 ppbv

RT: 16.27 min Scan# 2163

Delta R.T. 0.00 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

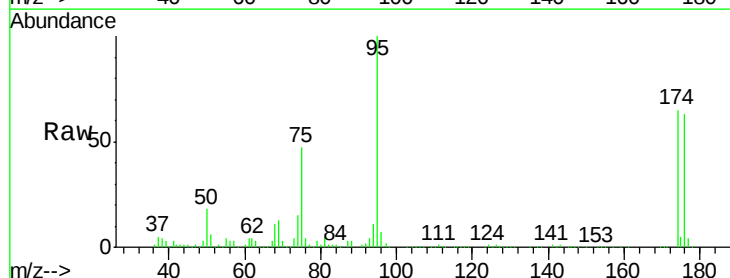
Tgt Ion: 95 Resp: 1633265

Ion Ratio Lower Upper

95 100

174 64.9 55.8 83.8

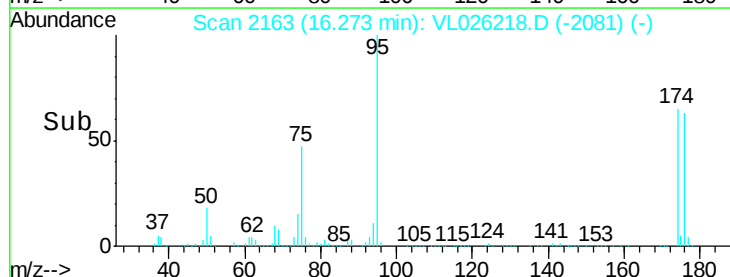
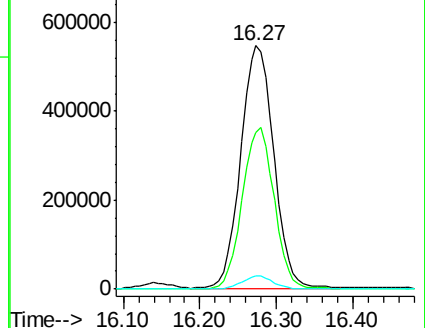
175 5.2 4.3 6.5

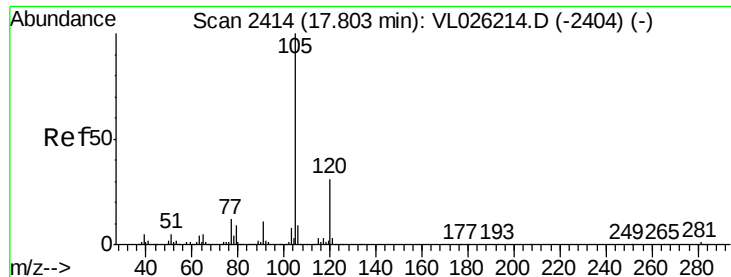


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 1.54 ppbv

RT: 17.80 min Scan# 2413

Delta R.T. -0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

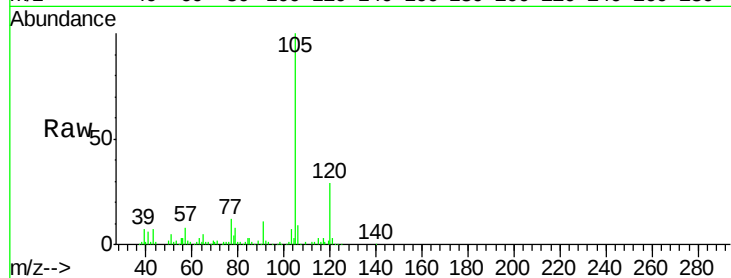
Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

Tot Ion:	105	Resp:	430197
Ion	Ratio	Lower	Upper
105	100		
120	30.8	25.2	37.8
91	10.7	9.0	13.6
77	11.3	9.7	14.5

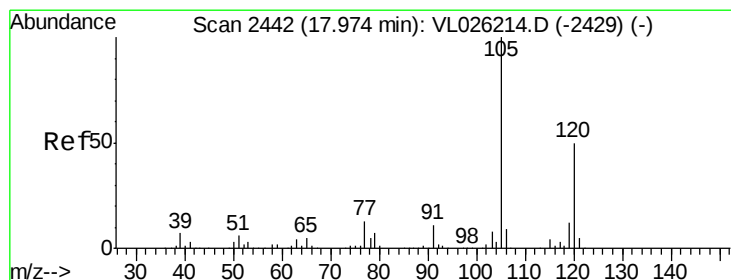
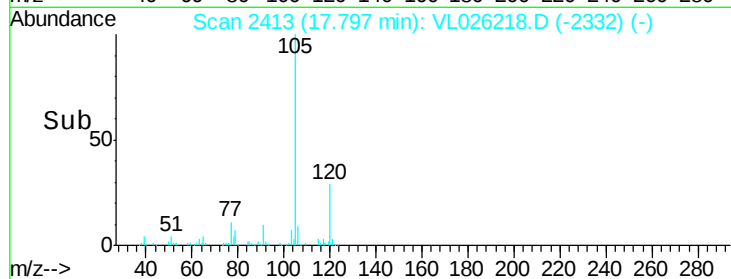
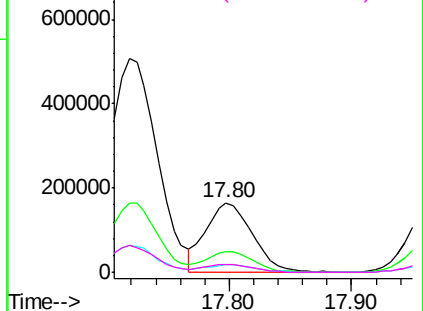


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 1.59 ppbv

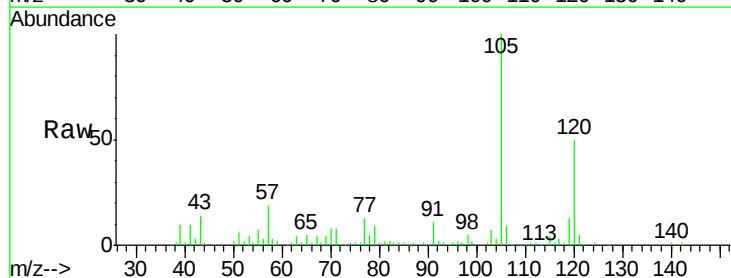
RT: 17.96 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL026218.D

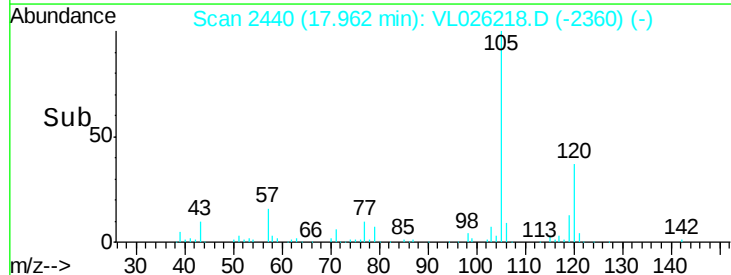
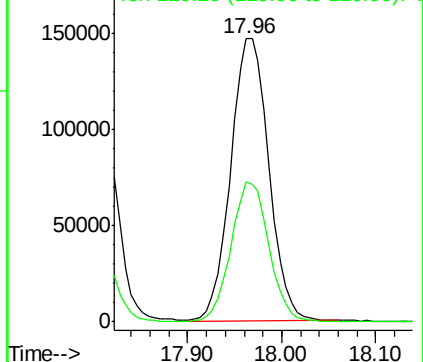
Acq: 20 Oct 2015 23:07

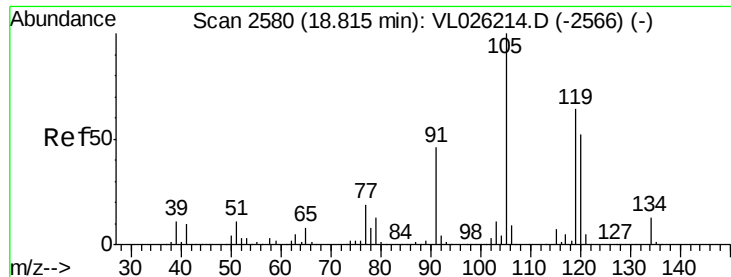
Tgt Ion:	105	Resp:	413985
Ion	Ratio	Lower	Upper
105	100		
120	49.6	39.8	59.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 2.20 ppbv
 RT: 18.80 min Scan# 2578
 Delta R.T. -0.01 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Tot Ion:	105	Resp:	594499
Ion	Ratio	Lower	Upper
105	100		
120	46.2	41.2	61.8
91	10.3	37.2	55.8#
77	12.4	15.6	23.4#

