

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026221.D
 Acq On : 21 Oct 2015 1:02
 Operator : SY/MD
 Sample : G3973-03DL 600X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3DL

Manual Integrations
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MMDadoda
 10/22/2015 4:32:03 PM

Quant Time: Oct 22 12:04:56 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 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	474621	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	1476262	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.73	117	1865768	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.27	95	1687541	11.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	117.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.56	51	40075m	0.67	ppbv	
10) Heptane	9.37	43	7415010	78.73	ppbv	98
13) Ethanol	4.37	45	3305	0.78	ppbv	75
26) Hexane	6.67	57	9532325	145.62	ppbv #	46
30) Cyclohexane	8.29	84	3862664	59.00	ppbv	96
36) Benzene	8.01	78	495836	3.30	ppbv	98
53) Toluene	11.23	91	157913	0.77	ppbv	93
58) Ethyl Benzene	14.40	91	242715	0.80	ppbv	97
59) m/p-Xylene	14.71	91	241905	1.02	ppbv	93
60) o-Xylene	15.47	91	29065	0.12	ppbv	90
61) Styrene	15.29	104	13546	0.12	ppbv #	84
62) Isopropylbenzene	16.52	105	86788	0.25	ppbv	99
64) n-propylbenzene	17.49	120	20476	0.22	ppbv	77
74) 1,2,4-Trimethylbenzene	18.80	105	352098	1.27	ppbv #	72

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

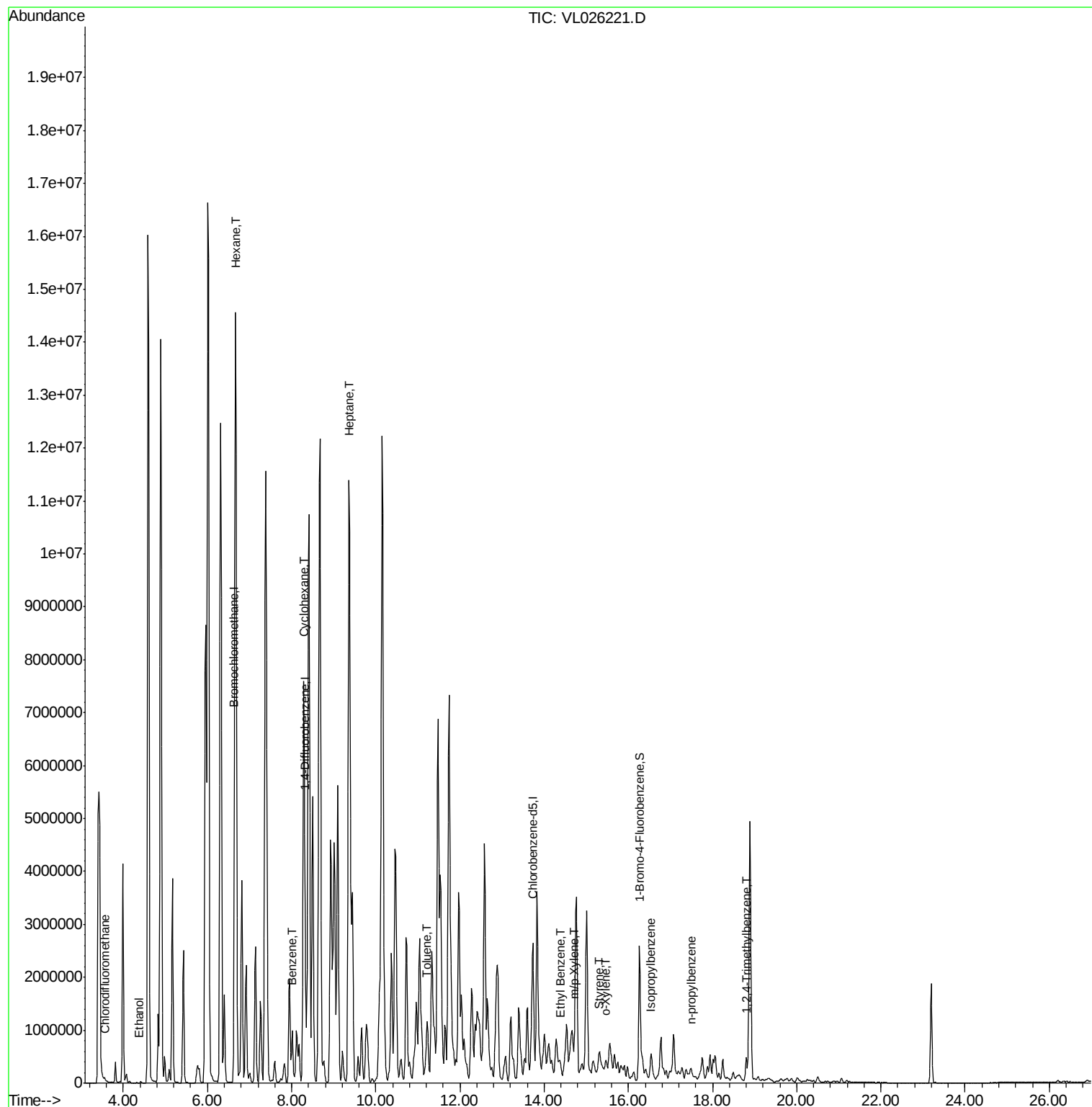
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
Data File : VL026221.D
Acq On : 21 Oct 2015 1:02
Operator : SY/MD
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

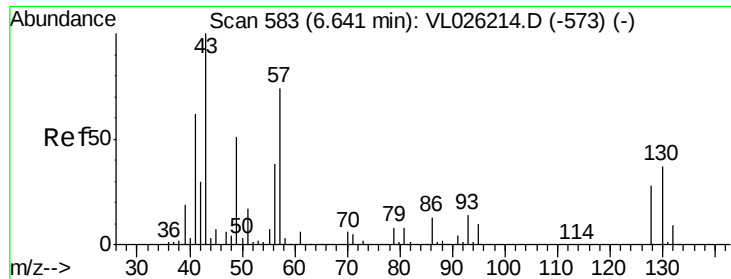
Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

Manual Integrations
APPROVED

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10/22/2015 4:32:03 PM

Quant Time: Oct 22 12:04:56 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Oct
QLast Update : Tue Oct 20 20:24:48 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 582

Delta R.T. -0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA_L

ClientSampled :

SS-3DL

Tot Ion: 49 Resp: 474621

Ion Ratio Lower Upper

49 100

128 51.9 28.2 84.7

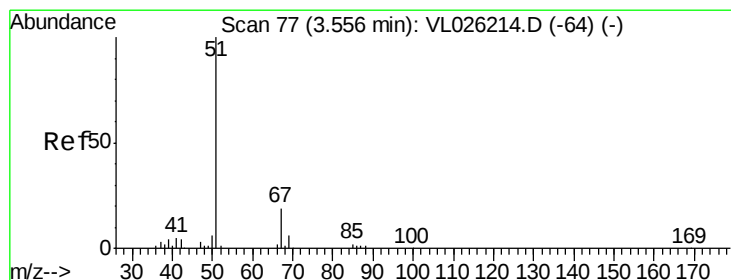
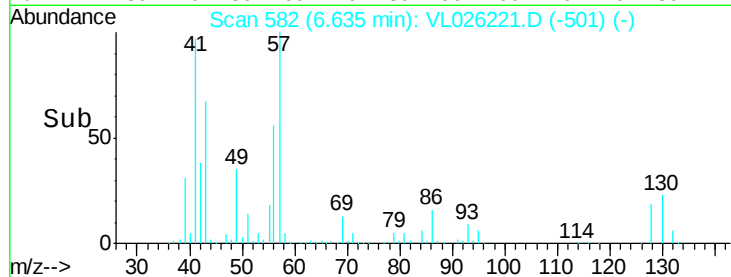
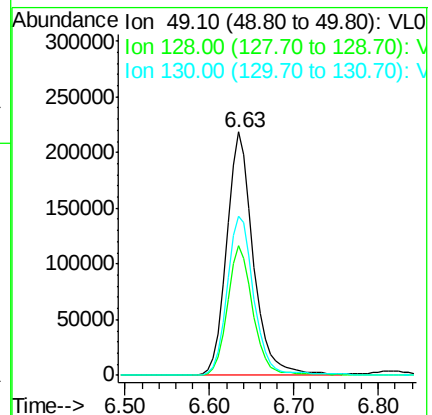
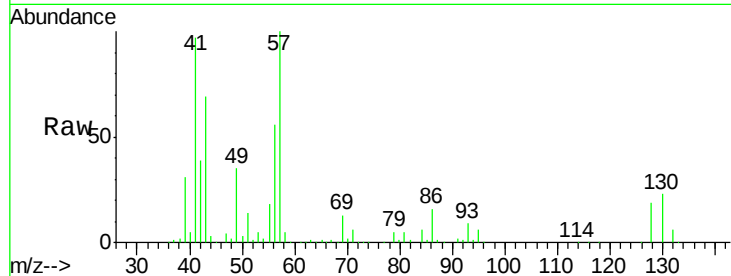
130 66.4 36.0 108.1

Manual Integrations

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#3

Chlorodifluoromethane

Concen: 0.67 ppbv m

RT: 3.56 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL026221.D

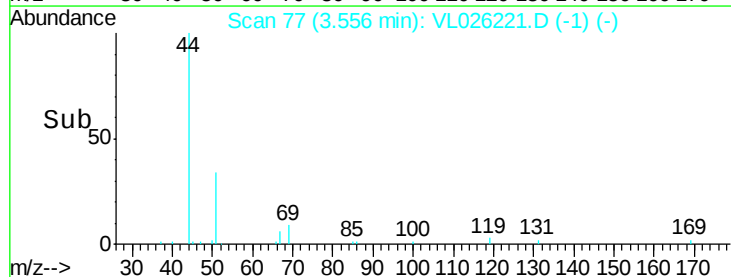
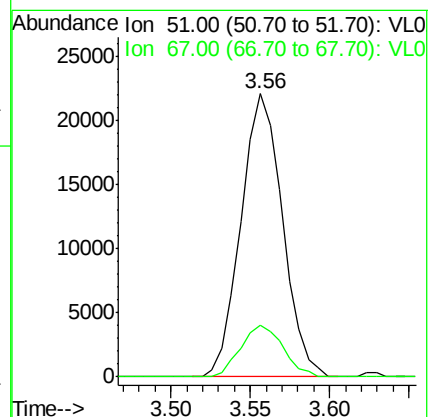
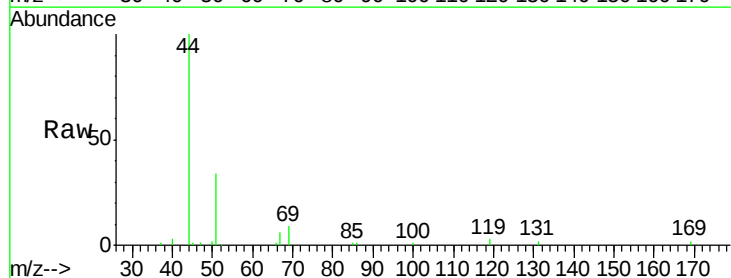
Acq: 21 Oct 2015 1:02

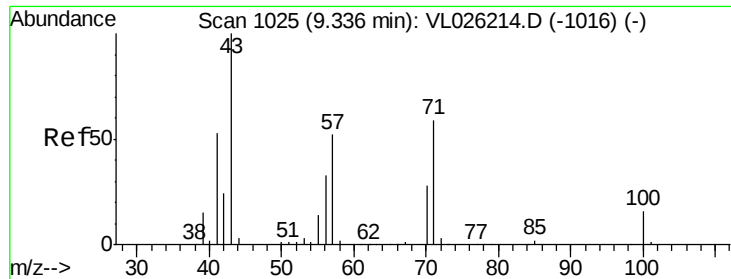
Tgt Ion: 51 Resp: 40075

Ion Ratio Lower Upper

51 100

67 18.5 15.3 22.9





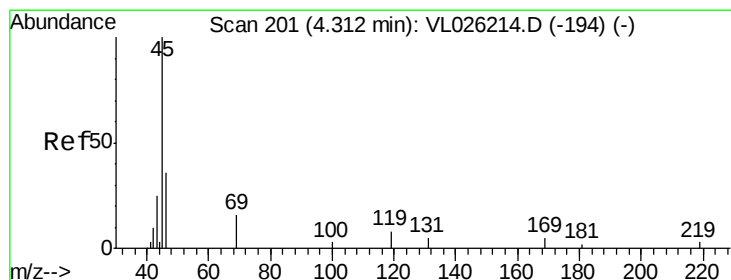
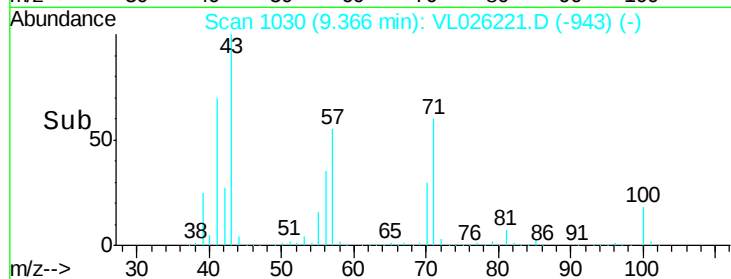
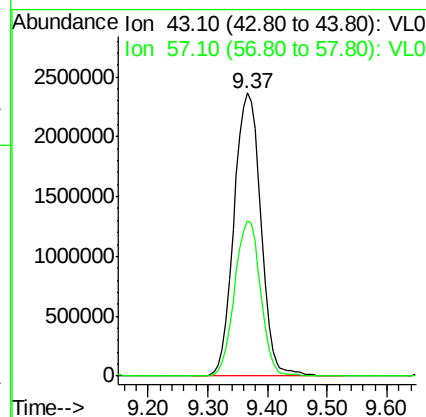
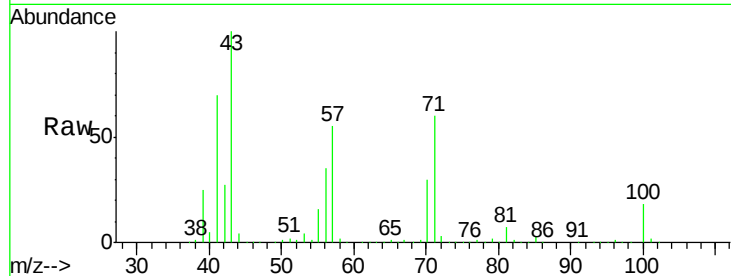
#10
Heptane
Concen: 78.73 ppbv
RT: 9.37 min Scan# 1030
Delta R.T. 0.03 min
Lab File: VL026221.D
Acq: 21 Oct 2015 1:02

Instrument :
MSVOA_L
ClientSampled :
SS-3DL

Tot Ion: 43 Resp: 7415010
Ion Ratio Lower Upper
43 100
57 52.9 43.7 65.5

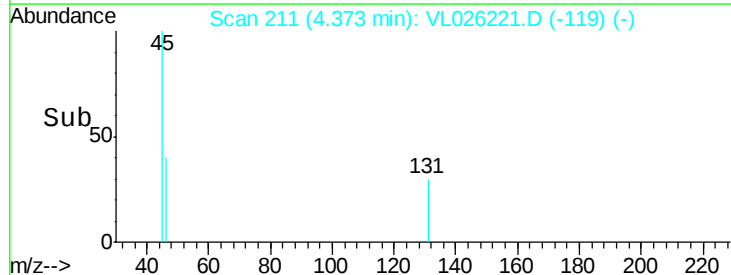
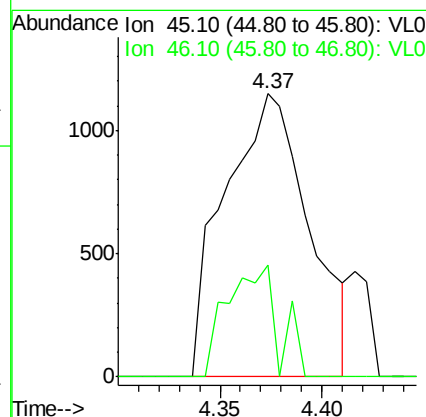
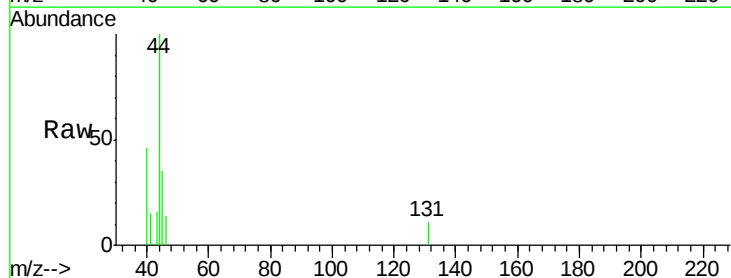
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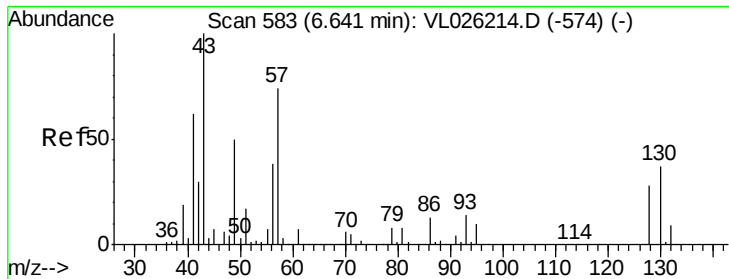
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#13
Ethanol
Concen: 0.78 ppbv
RT: 4.37 min Scan# 211
Delta R.T. 0.06 min
Lab File: VL026221.D
Acq: 21 Oct 2015 1:02

Tgt Ion: 45 Resp: 3305
Ion Ratio Lower Upper
45 100
46 23.9 15.8 63.0





#26

Hexane

Concen: 145.62 ppbv

RT: 6.67 min Scan# 588

Delta R.T. 0.03 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

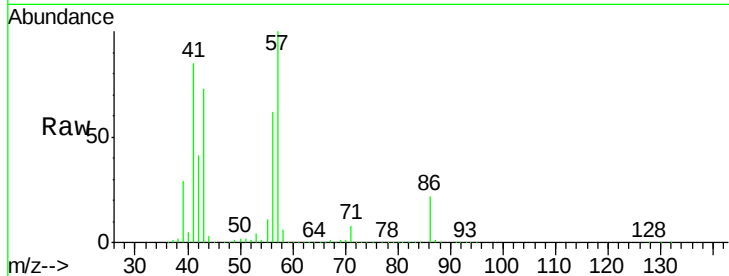
Tot Ion: 57 Resp: 9532325

Ion Ratio Lower Upper

57	100		
41	86.8	68.1	102.1
43	71.1	163.4	245.2#
56	59.2	42.2	63.4

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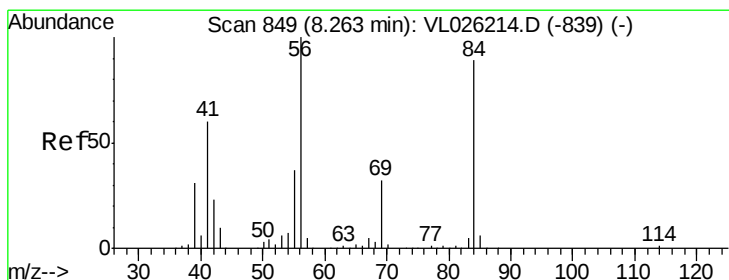
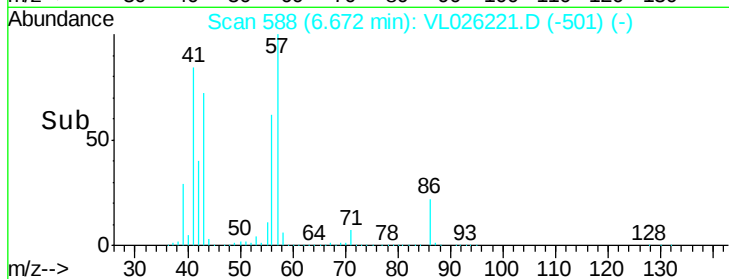
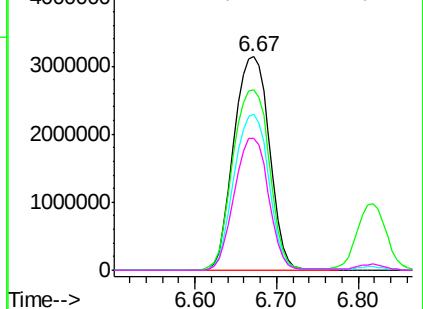
Abundance

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



#30

Cyclohexane

Concen: 59.00 ppbv

RT: 8.29 min Scan# 853

Delta R.T. 0.02 min

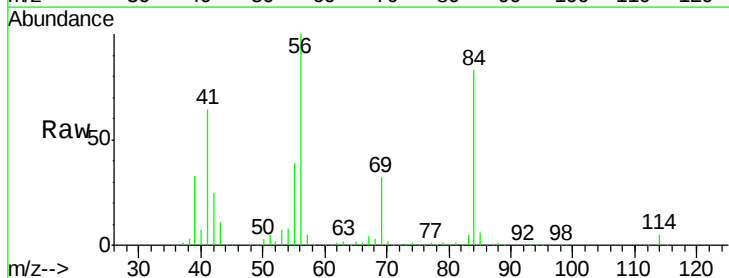
Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Tgt Ion: 84 Resp: 3862664

Ion Ratio Lower Upper

84	100		
56	120.4	95.9	143.9
41	77.3	54.8	82.2

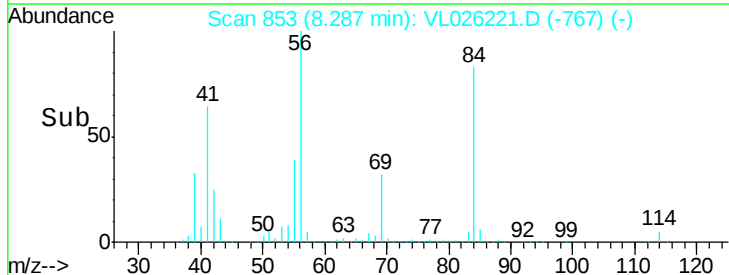
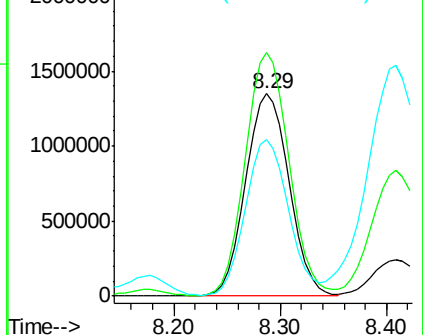


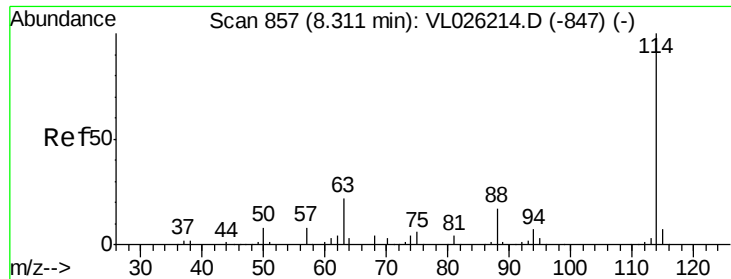
Abundance

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





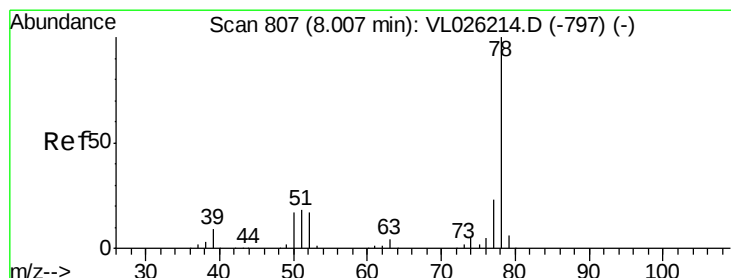
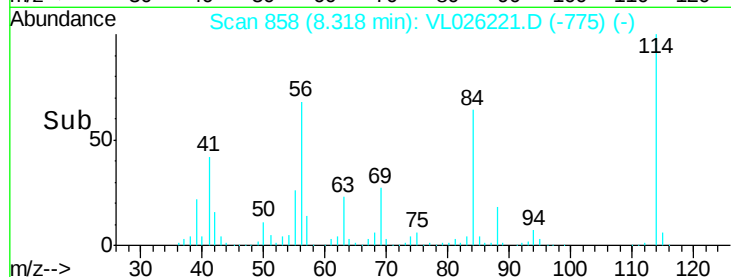
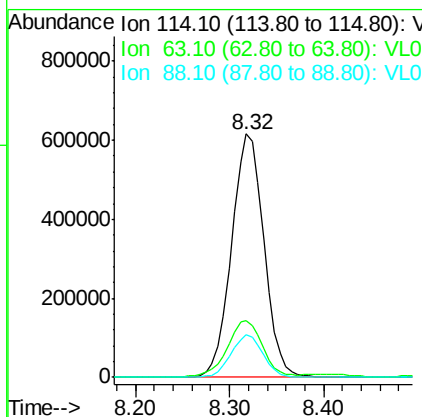
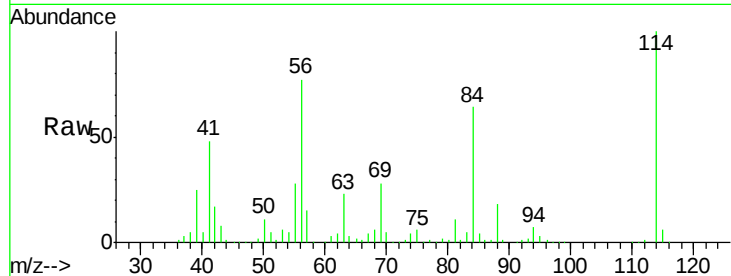
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.32 min Scan# 858
 Delta R.T. 0.01 min
 Lab File: VL026221.D
 Acq: 21 Oct 2015 1:02

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3DL

Tot Ion:114 Resp: 1476262
 Ion Ratio Lower Upper
 114 100
 63 27.6 18.2 27.4#
 88 17.3 13.5 20.3

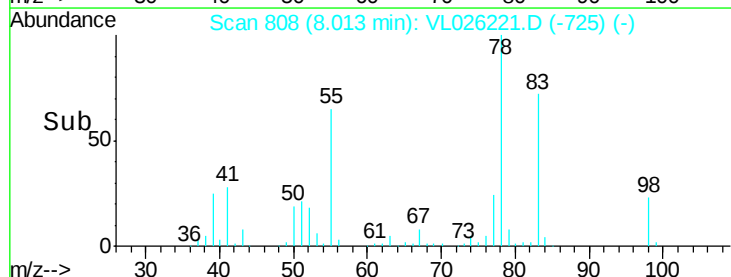
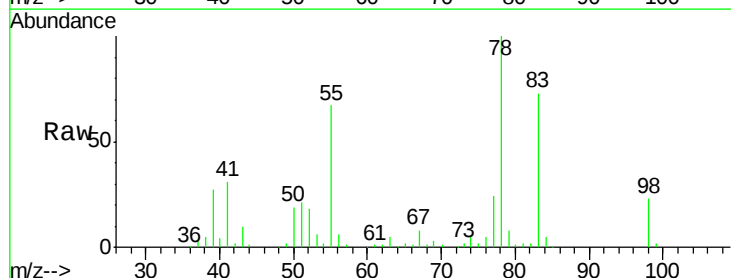
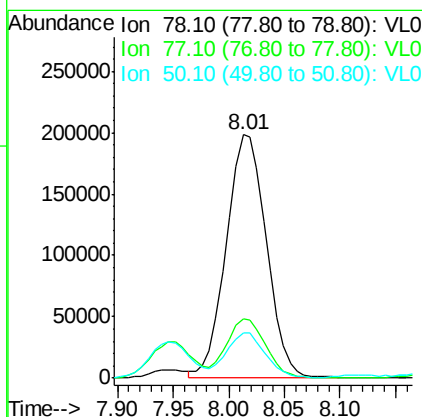
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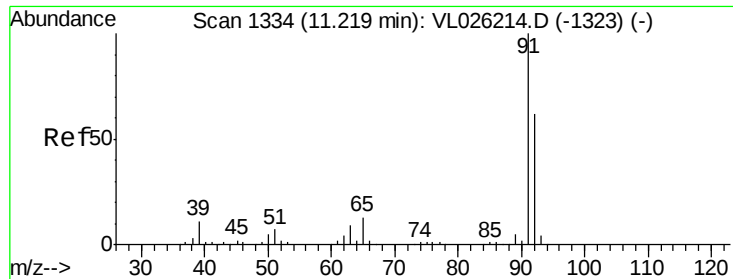
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#36
 Benzene
 Concen: 3.30 ppbv
 RT: 8.01 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VL026221.D
 Acq: 21 Oct 2015 1:02

Tgt Ion: 78 Resp: 495836
 Ion Ratio Lower Upper
 78 100
 77 24.1 18.1 27.1
 50 18.0 13.8 20.8





#53

Toluene

Concen: 0.77 ppbv

RT: 11.23 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA_L

ClientSampled :

SS-3DL

Tot Ion: 91 Resp: 157913

Ion Ratio Lower Upper

91 100

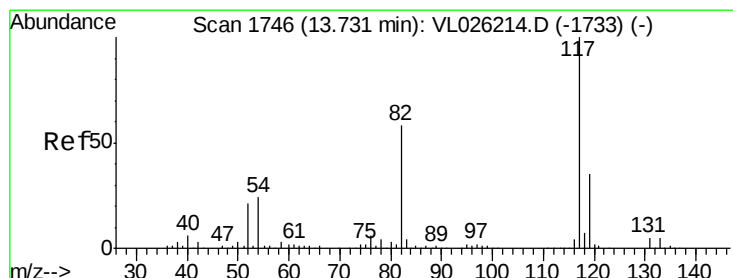
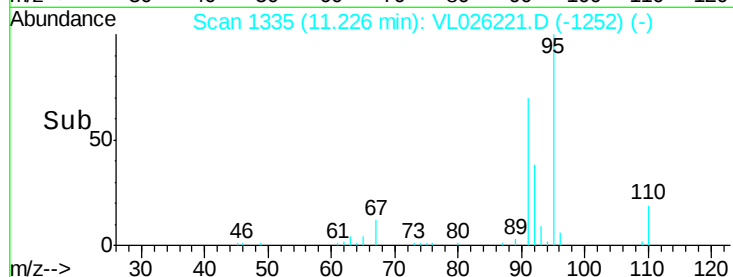
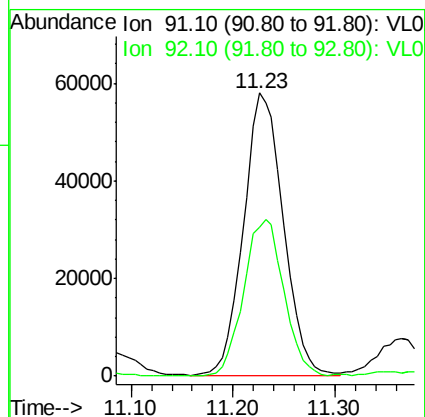
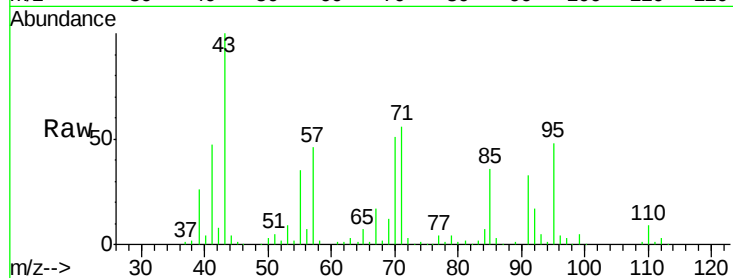
92 55.8 49.2 73.8

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.73 min Scan# 1746

Delta R.T. 0.00 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

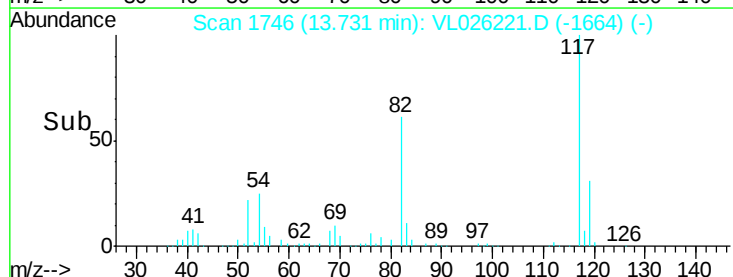
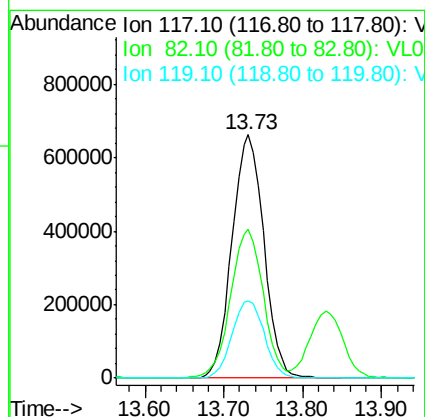
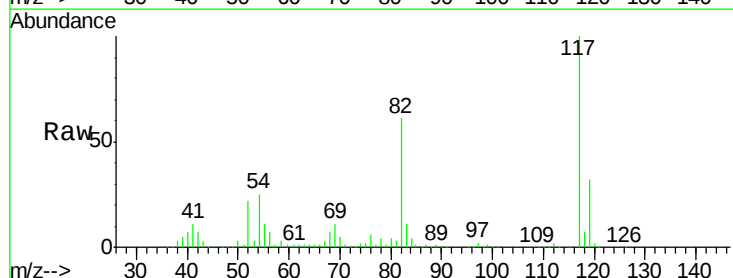
Tgt Ion: 117 Resp: 1865768

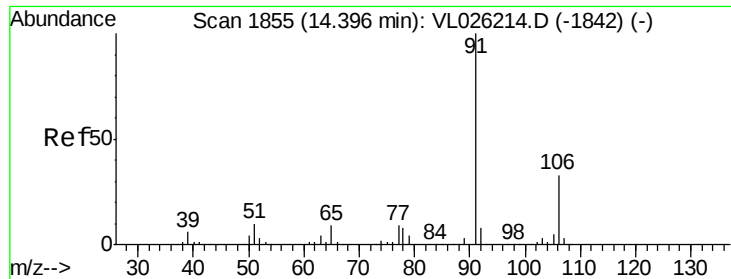
Ion Ratio Lower Upper

117 100

82 61.7 45.8 68.8

119 32.4 45.0 67.4#





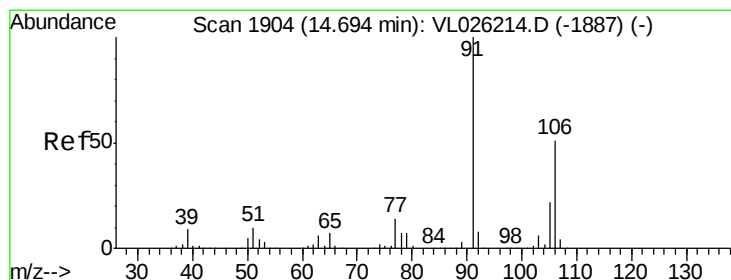
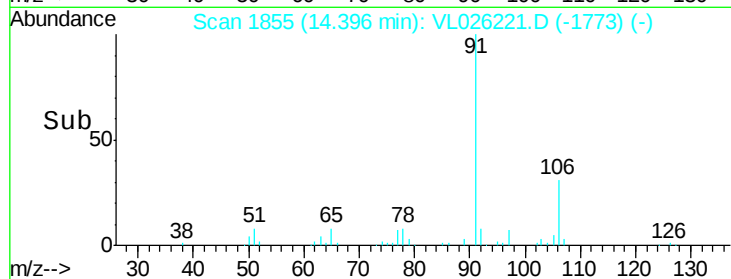
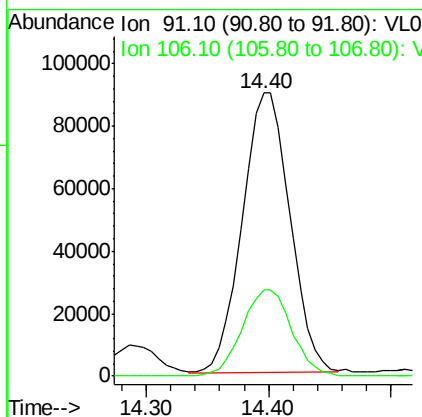
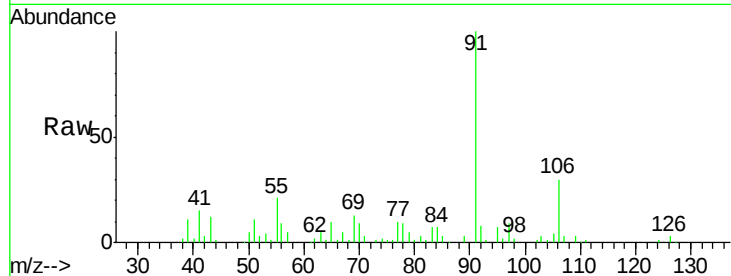
#58
Ethyl Benzene
Concen: 0.80 ppbv
RT: 14.40 min Scan# 1855
Delta R.T. 0.00 min
Lab File: VL026221.D
Acq: 21 Oct 2015 1:02

Instrument :
MSVOA_L
ClientSampled :
SS-3DL

Tot Ion: 91 Resp: 242715
Ion Ratio Lower Upper
91 100
106 30.7 26.1 39.1

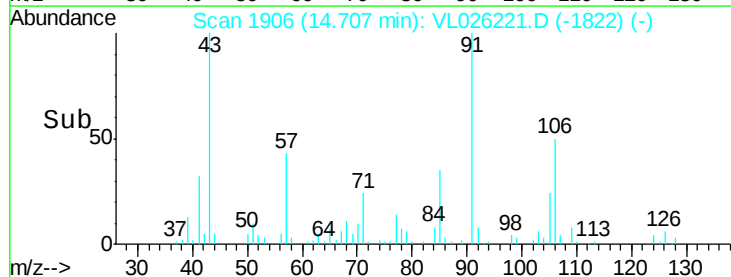
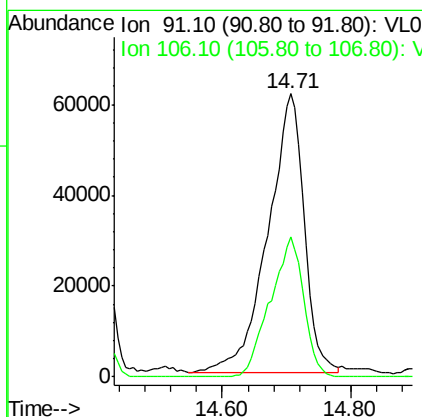
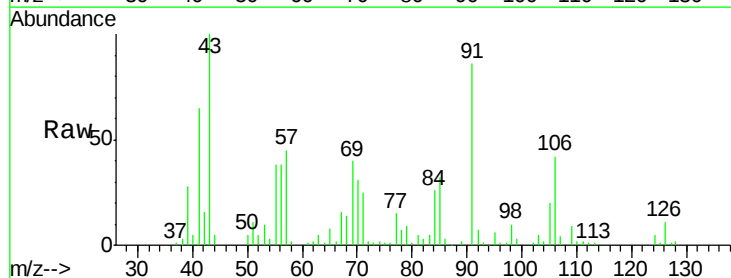
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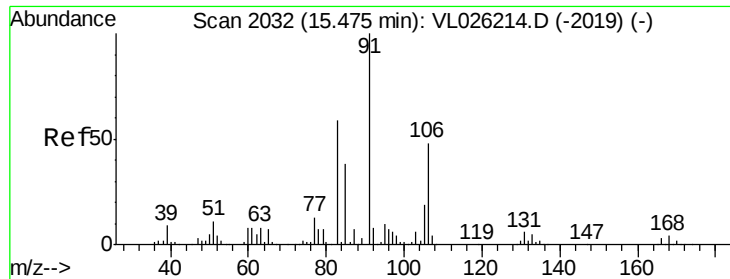
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#59
m/p-Xylene
Concen: 1.02 ppbv
RT: 14.71 min Scan# 1906
Delta R.T. 0.01 min
Lab File: VL026221.D
Acq: 21 Oct 2015 1:02

Tgt Ion: 91 Resp: 241905
Ion Ratio Lower Upper
91 100
106 46.0 40.6 61.0





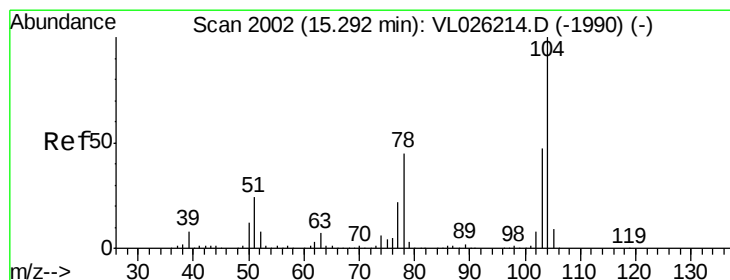
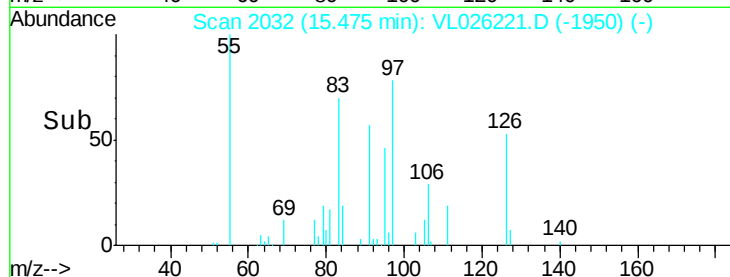
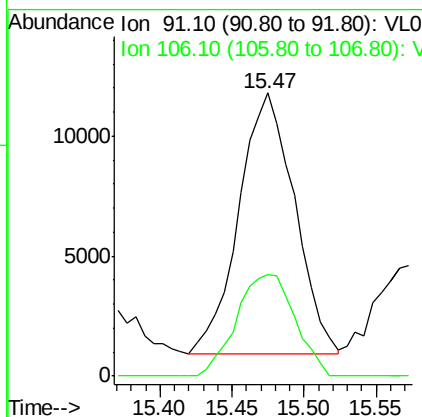
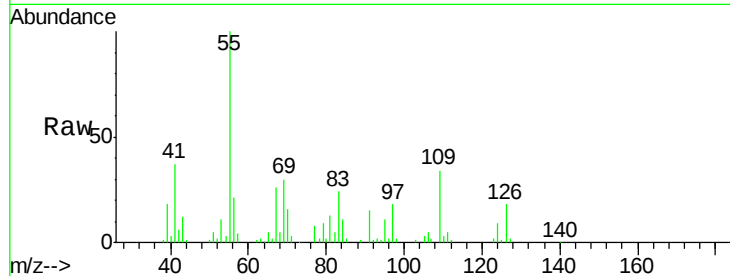
#60
o-Xylene
Concen: 0.12 ppbv
RT: 15.47 min Scan# 2032
Delta R.T. 0.00 min
Lab File: VL026221.D
Acq: 21 Oct 2015 1:02

Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

Tot Ion: 91 Resp: 29065
Ion Ratio Lower Upper
91 100
106 41.1 23.8 71.5

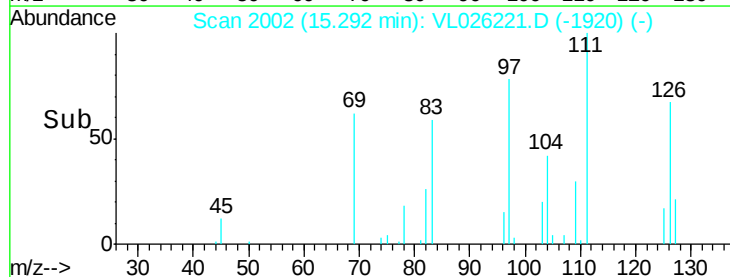
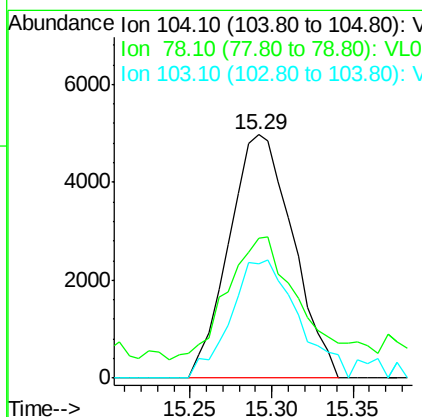
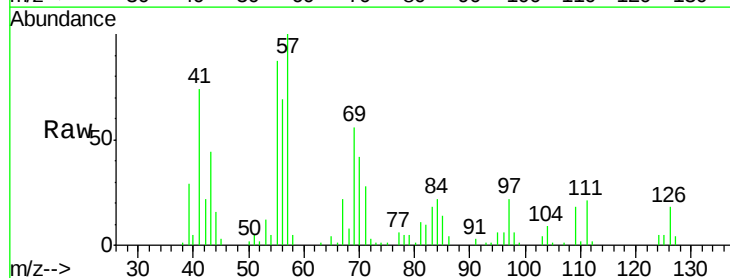
Manual Integrations
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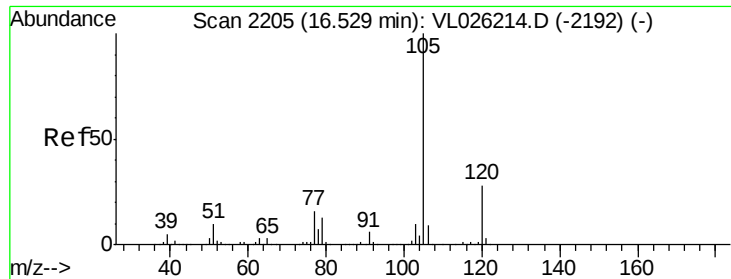
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#61
Styrene
Concen: 0.12 ppbv
RT: 15.29 min Scan# 2002
Delta R.T. 0.00 min
Lab File: VL026221.D
Acq: 21 Oct 2015 1:02

Tgt Ion: 104 Resp: 13546
Ion Ratio Lower Upper
104 100
78 57.4 35.3 52.9#
103 54.6 37.0 55.4





#62

Isopropylbenzene

Concen: 0.25 ppbv

RT: 16.52 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA_L

ClientSampled :

SS-3DL

Tot Ion:105 Resp: 86788

Ion Ratio Lower Upper

105 100

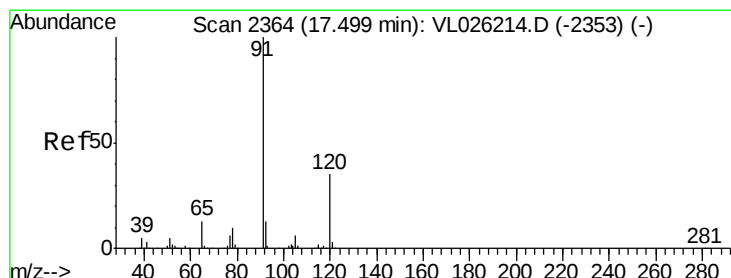
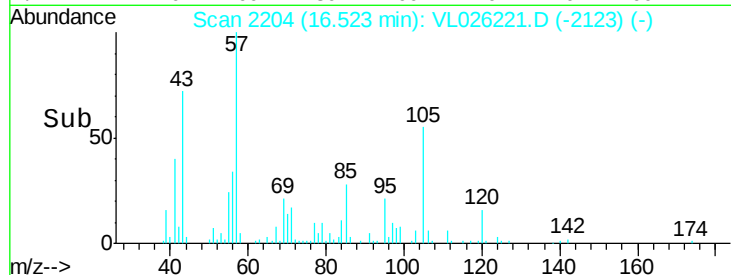
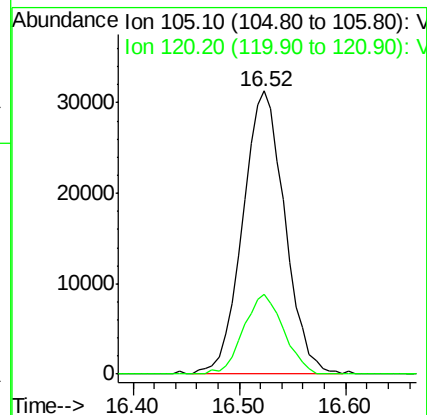
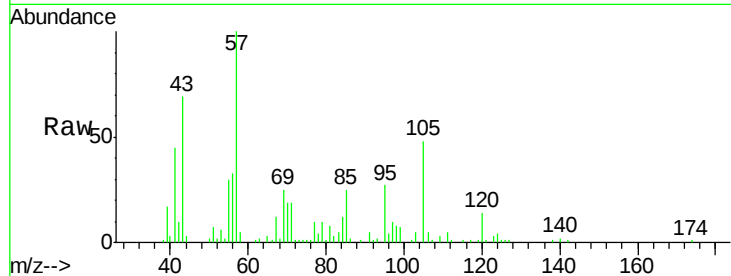
120 26.9 21.8 32.8

Manual Integrations

APPROVED

MMDadoda

10/22/2015 4:32:03 PM



#64

n-propylbenzene

Concen: 0.22 ppbv

RT: 17.49 min Scan# 2363

Delta R.T. -0.01 min

Lab File: VL026221.D

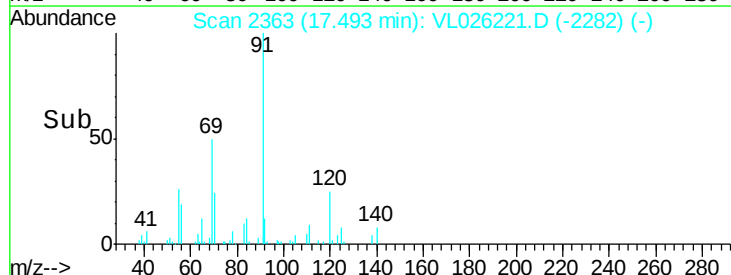
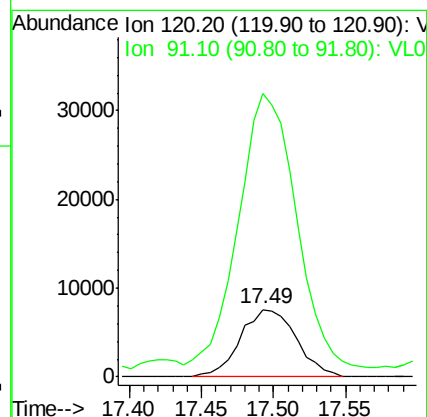
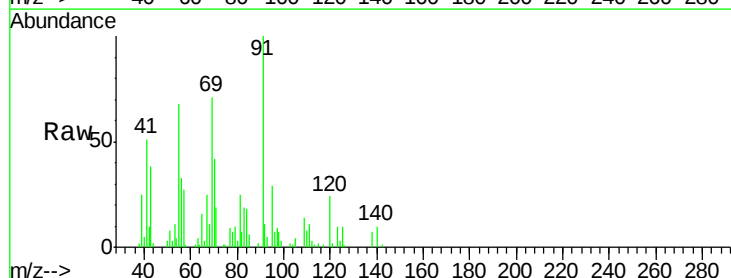
Acq: 21 Oct 2015 1:02

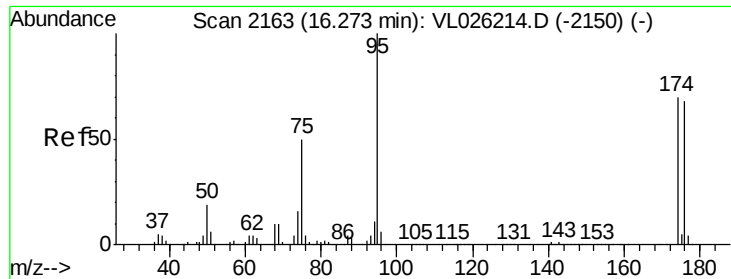
Tgt Ion:120 Resp: 20476

Ion Ratio Lower Upper

120 100

91 470.0 331.7 497.5





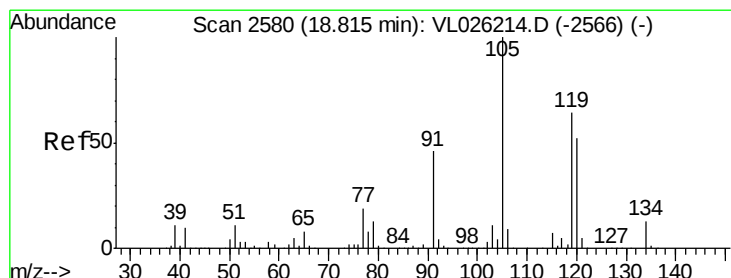
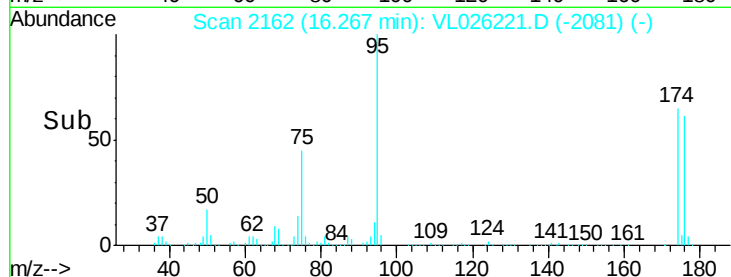
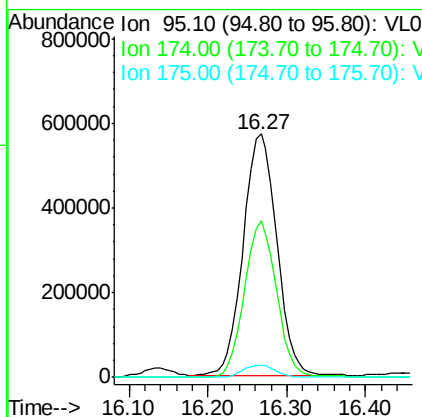
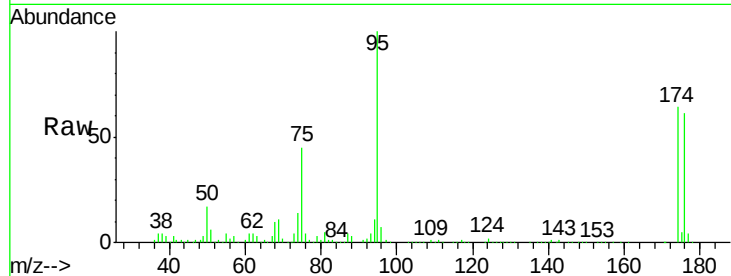
#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.73 ppbv
 RT: 16.27 min Scan# 2162
 Delta R.T. -0.01 min
 Lab File: VL026221.D
 Acq: 21 Oct 2015 1:02

Instrument :
 MSVOA_L
 ClientSampled :
 SS-3DL

Tot Ion: 95 Resp: 1687541
 Ion Ratio Lower Upper
 95 100
 174 62.7 55.8 83.8
 175 5.0 4.3 6.5

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:32:03 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 1.27 ppbv
 RT: 18.80 min Scan# 2578
 Delta R.T. -0.01 min
 Lab File: VL026221.D
 Acq: 21 Oct 2015 1:02

Tgt Ion: 105 Resp: 352098
 Ion Ratio Lower Upper
 105 100
 120 46.6 41.2 61.8
 91 9.4 37.2 55.8#
 77 13.0 15.6 23.4#

