

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\
 Data File : VL025756.D
 Acq On : 27 Jul 2015 16:51
 Operator : SY/MD
 Sample : G3092-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-221-B

Quant Time: Jul 28 01:01:34 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 02:22:55 2015
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	849134	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	2190239	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.79	117	2498276	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.32	95	1845809	8.76	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.64	85	52339	0.24	ppbv	97
3) Chlorodifluoromethane	3.57	51	139495	1.17	ppbv	93
4) Chloromethane	3.75	50	28052	0.51	ppbv	94
9) Propene	3.82	41	2452917	61.70	ppbv	88
10) Heptane	9.35	43	44613	0.29	ppbv	100
11) Trichlorofluoromethane	4.69	101	56517	0.20	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	5.31	101	9175	0.06	ppbv	87
13) Ethanol	4.32	45	463521	74.99	ppbv	98
15) Acetone	4.60	43	1102164	7.35	ppbv	99
16) 1,3-Butadiene	4.00	39	221273	3.71	ppbv #	16
17) tert-Butyl alcohol	5.14	59	29259	0.23	ppbv	95
19) Isopropyl Alcohol	4.75	45	400242	6.68	ppbv #	1
20) Methylene Chloride	5.15	84	417273	6.85	ppbv	97
23) Vinyl Acetate	6.01	43	115373	0.51	ppbv #	53
25) Ethyl Acetate	6.66	43	135253	0.60	ppbv #	85
26) Hexane	6.66	57	169797	1.59	ppbv #	51
27) Carbon Disulfide	5.40	76	20348	0.12	ppbv #	53
29) Chloroform	6.74	83	24065	0.11	ppbv	91
30) Cyclohexane	8.28	84	53098	0.52	ppbv #	33
34) 2-Butanone	6.21	43	73813	0.59	ppbv	96
35) Carbon Tetrachloride	8.16	117	14469	0.06	ppbv #	93
36) Benzene	8.02	78	68781	0.33	ppbv	94
38) Trichloroethene	9.07	130	73111	0.75	ppbv	94
41) Tetrahydrofuran	7.14	42	20358	0.33	ppbv #	87
42) Bromodichloromethane	9.02	83	7368	0.03	ppbv #	77
44) 2,2,4-Trimethylpentane	9.09	57	153934	0.43	ppbv #	75
47) 1,1,2-Trichloroethane	10.87	97	4508	0.04	ppbv #	76
50) 4-Methyl-2-Pentanone	10.09	43	564746	3.15	ppbv	99
51) 2-Hexanone	11.66	43	32110	0.20	ppbv #	90
52) Tetrachloroethene	12.91	164	46313207	440.21	ppbv	87
53) Toluene	11.24	91	342550	1.16	ppbv	99
58) Ethyl Benzene	14.46	91	128674	0.31	ppbv	96
59) m/p-Xylene	14.73	91	328351	0.91	ppbv	98
60) o-Xylene	15.53	91	223812	0.57	ppbv	100
61) Styrene	15.35	104	13313	0.10	ppbv	92
62) Isopropylbenzene	16.57	105	62851	0.12	ppbv	99
64) n-propylbenzene	17.54	120	94217	0.68	ppbv	93
65) tert-Butylbenzene	18.85	119	170199	0.34	ppbv #	68
66) Benzyl Chloride	19.33	91	21595	0.12	ppbv #	77
67) sec-Butylbenzene	19.43	105	28629	0.04	ppbv	100
69) p-Isopropyltoluene	19.79	119	68800	0.12	ppbv #	55

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ClientSampleId :
A-221-B

Quant Time: Jul 28 01:01:34 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 02:22:55 2015
QLast Update : Wed Jul 08 02:22:55 2015
Response via : Initial Calibration

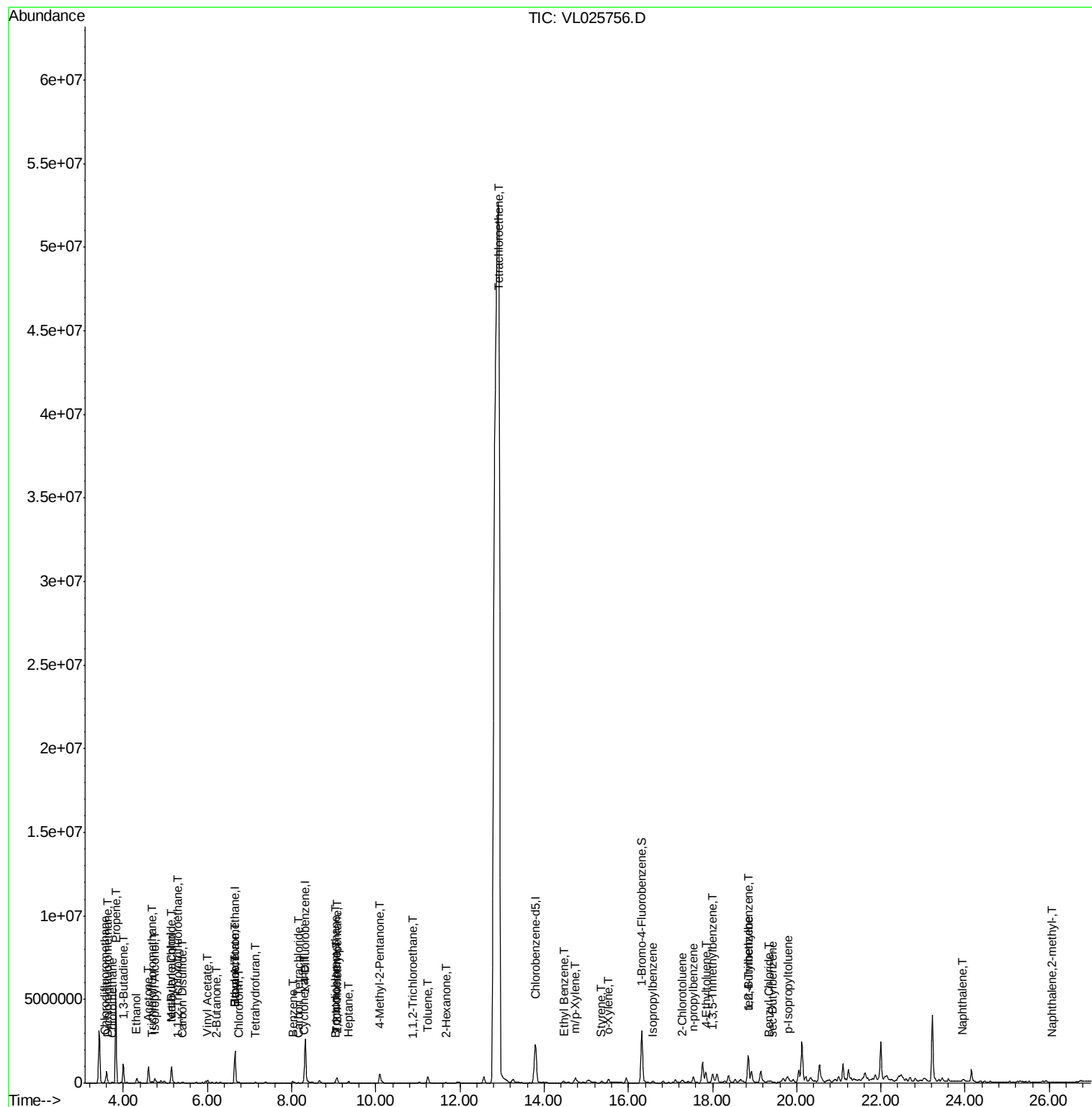
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	17.28	91	27815	0.07	ppbv	83
72) 4-Ethyltoluene	17.84	105	593321	1.37	ppbv	94
73) 1,3,5-Trimethylbenzene	18.00	105	422512	1.00	ppbv	96
74) 1,2,4-Trimethylbenzene	18.85	105	1452693	3.06	ppbv #	68
79) Naphthalene	23.94	128	98421	0.21	ppbv	95
80) Naphthalene,2-methyl-	26.06	142	4738	0.04	ppbv #	51

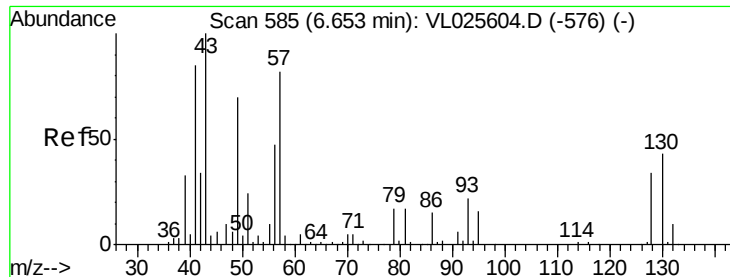
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. -0.00 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

A-221-B

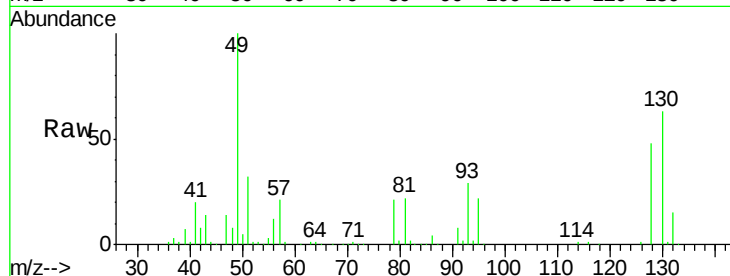
Tot Ion: 49 Resp: 849134

Ion Ratio Lower Upper

49 100

128 49.6 25.4 76.0

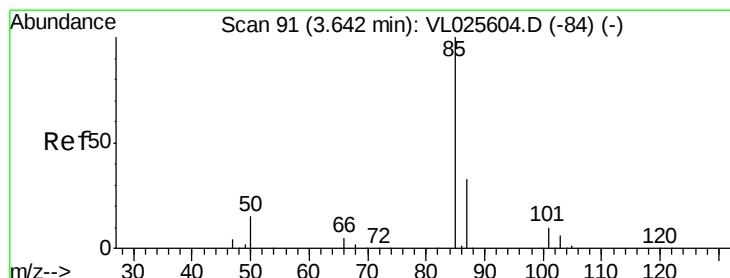
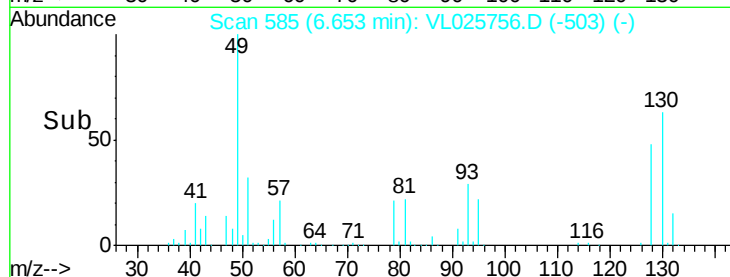
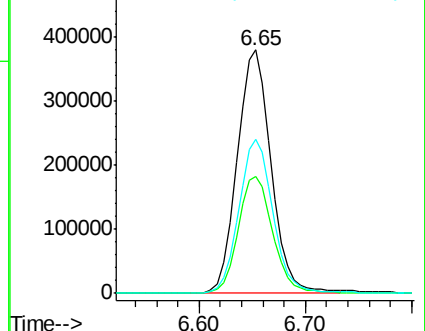
130 64.5 31.9 95.9



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



#2

Dichlorodifluoromethane

Concen: 0.24 ppbv

RT: 3.64 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL025756.D

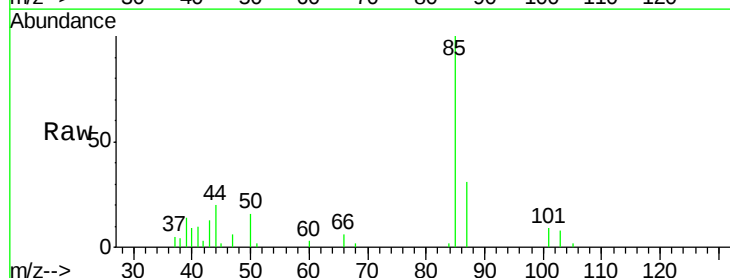
Acq: 27 Jul 2015 16:51

Tgt Ion: 85 Resp: 52339

Ion Ratio Lower Upper

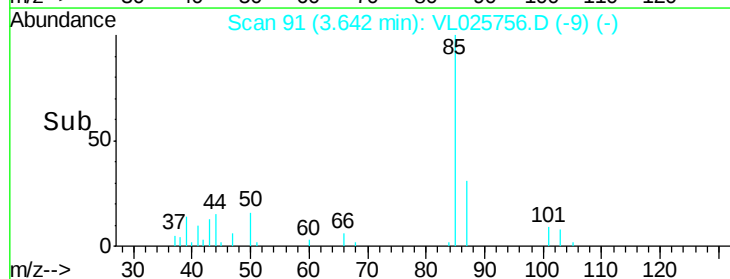
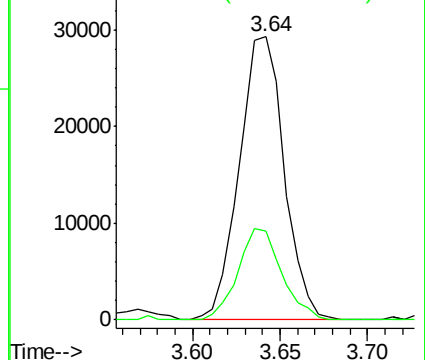
85 100

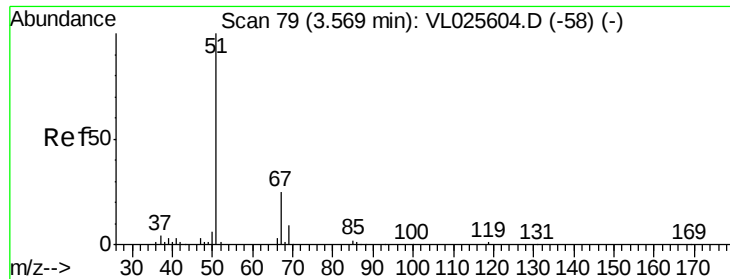
87 31.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.17 ppbv

RT: 3.57 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

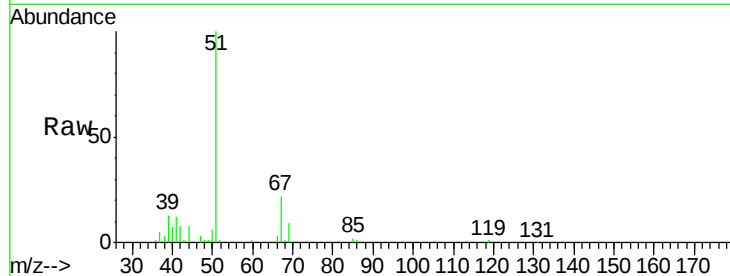
A-221-B

Tot Ion: 51 Resp: 139495

Ion Ratio Lower Upper

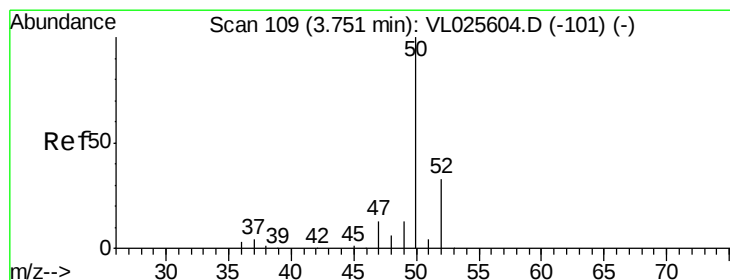
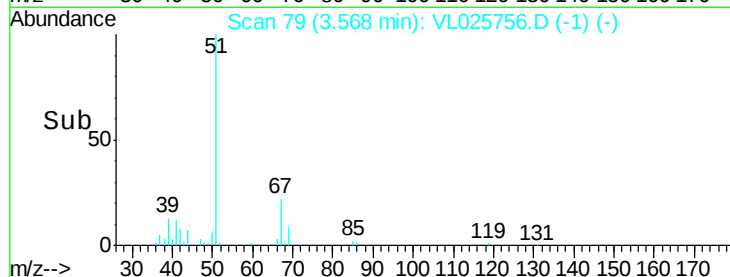
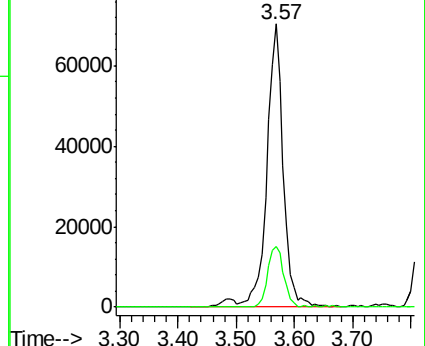
51 100

67 20.9 19.5 29.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.51 ppbv

RT: 3.75 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL025756.D

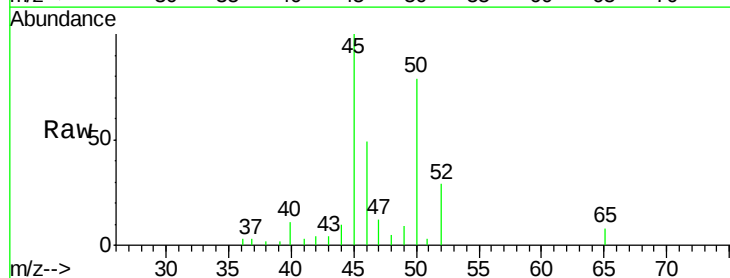
Acq: 27 Jul 2015 16:51

Tgt Ion: 50 Resp: 28052

Ion Ratio Lower Upper

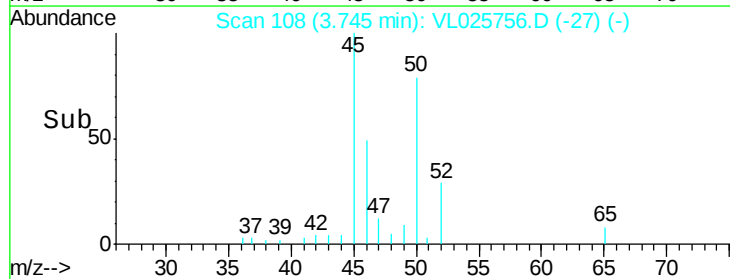
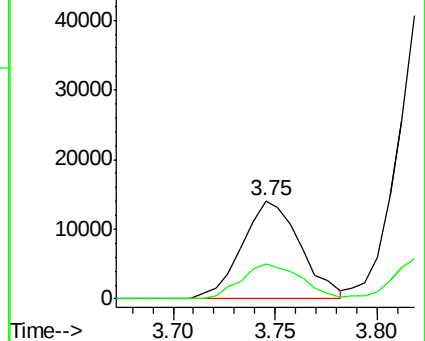
50 100

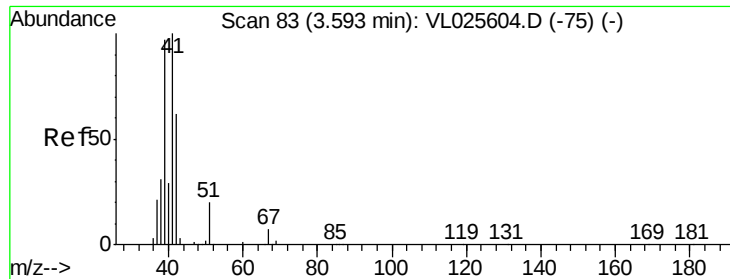
52 36.0 26.2 39.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 61.70 ppbv

RT: 3.82 min Scan# 121

Delta R.T. 0.23 min

Lab File: VL025756.D

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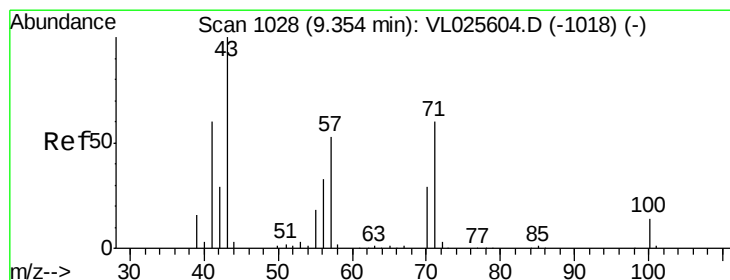
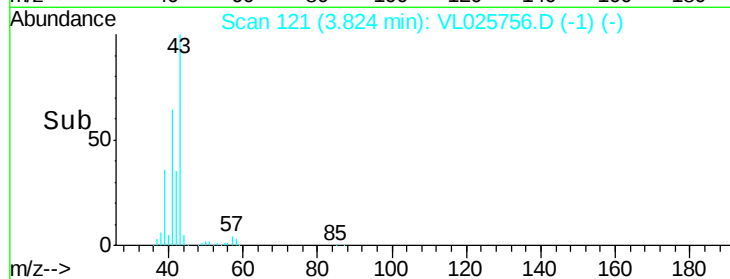
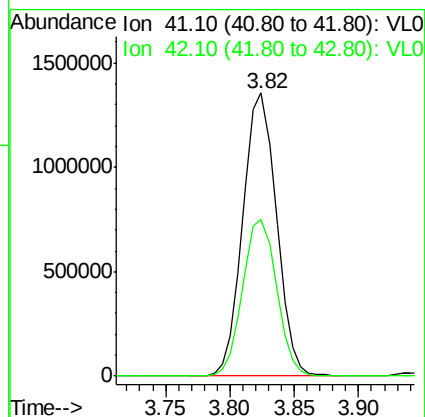
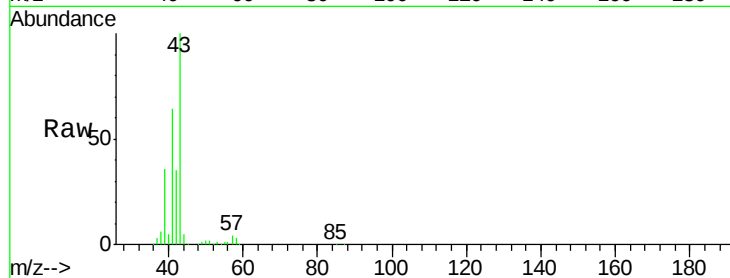
A-221-B

Tot Ion: 41 Resp: 2452917

Ion Ratio Lower Upper

41 100

42 56.1 52.4 78.6



#10

Heptane

Concen: 0.29 ppbv

RT: 9.35 min Scan# 1028

Delta R.T. -0.00 min

Lab File: VL025756.D

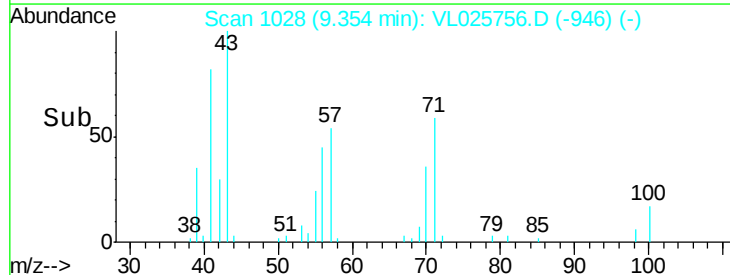
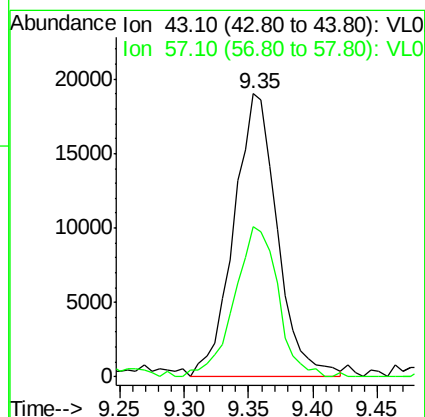
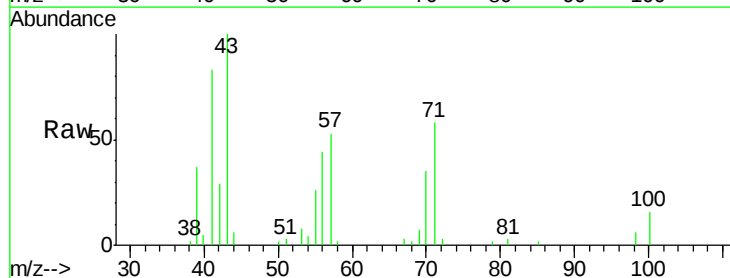
Acq: 27 Jul 2015 16:51

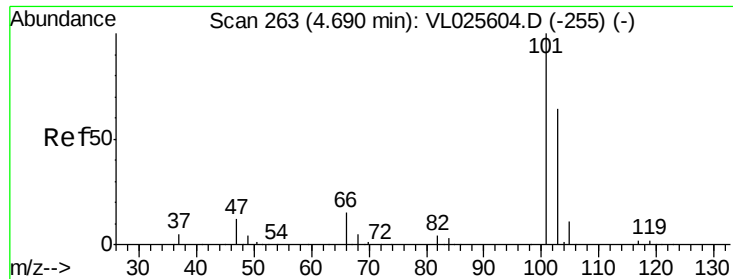
Tgt Ion: 43 Resp: 44613

Ion Ratio Lower Upper

43 100

57 53.2 42.6 64.0

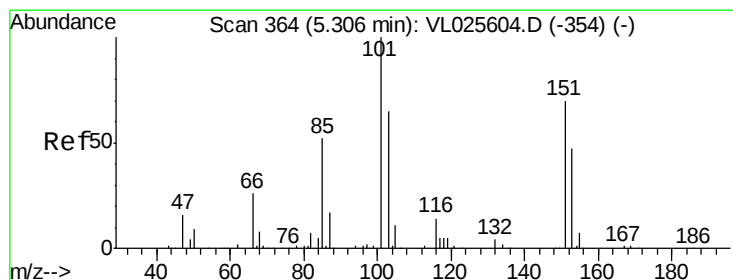
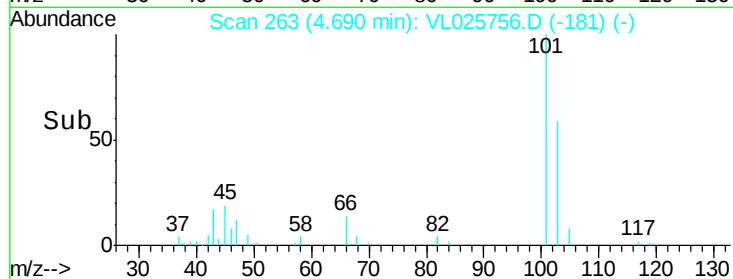
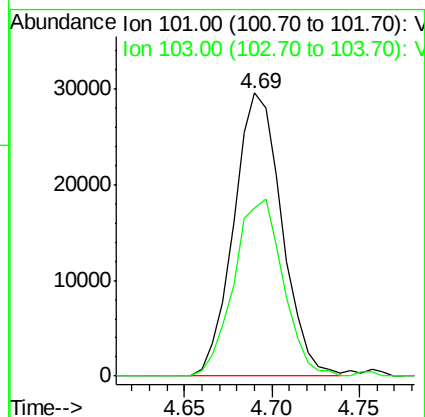
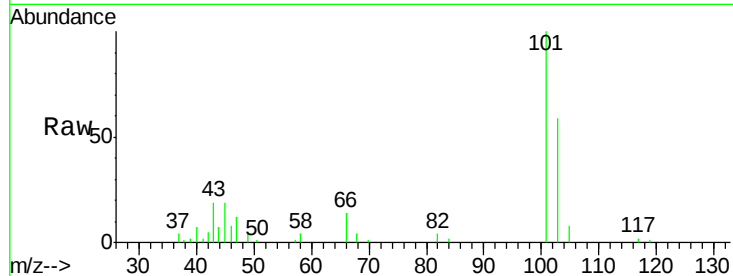




#11
 Trichlorofluoromethane
 Concen: 0.20 ppbv
 RT: 4.69 min Scan# 263
 Delta R.T. -0.00 min
 Lab File: VL025756.D
 Acq: 27 Jul 2015 16:51

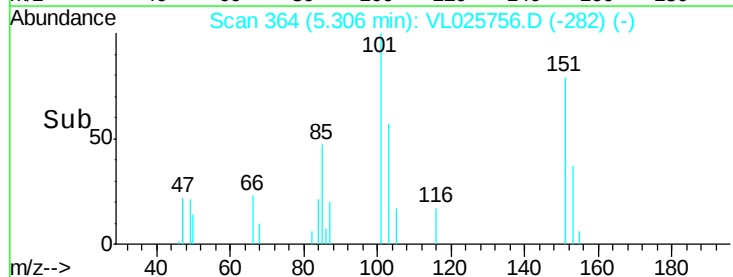
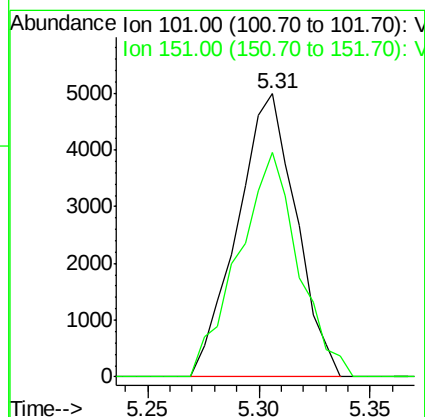
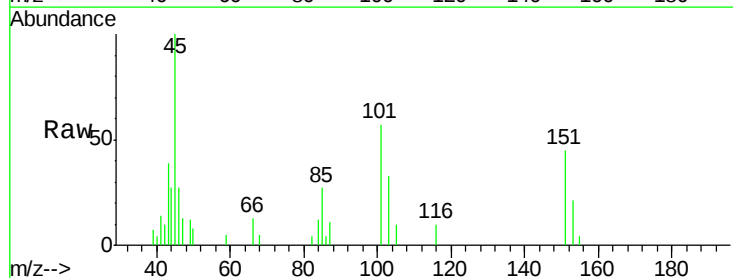
Instrument :
 MSVOA_L
 ClientSampleId :
 A-221-B

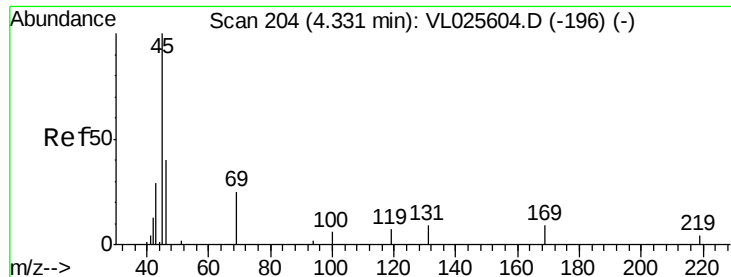
Tot Ion:101 Resp: 56517
 Ion Ratio Lower Upper
 101 100
 103 59.4 51.4 77.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.06 ppbv
 RT: 5.31 min Scan# 364
 Delta R.T. -0.00 min
 Lab File: VL025756.D
 Acq: 27 Jul 2015 16:51

Tgt Ion:101 Resp: 9175
 Ion Ratio Lower Upper
 101 100
 151 80.9 56.3 84.5





#13

Ethanol

Concen: 74.99 ppbv

RT: 4.32 min Scan# 202

Delta R.T. -0.01 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

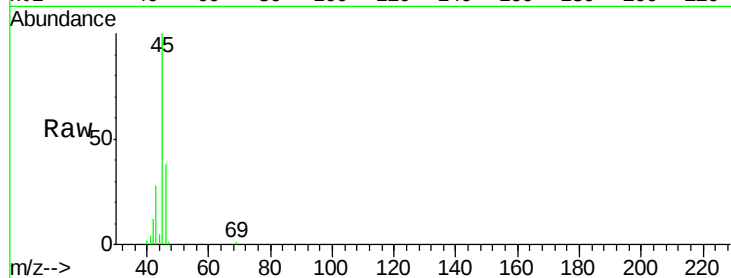
A-221-B

Tot Ion: 45 Resp: 463521

Ion Ratio Lower Upper

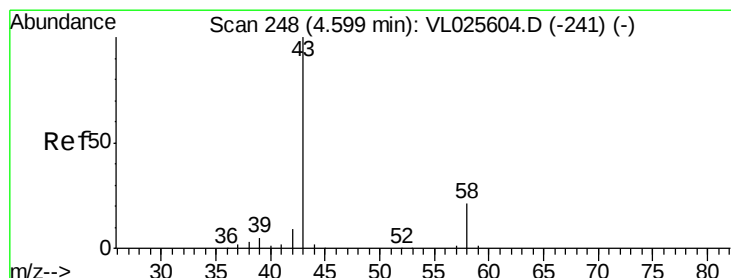
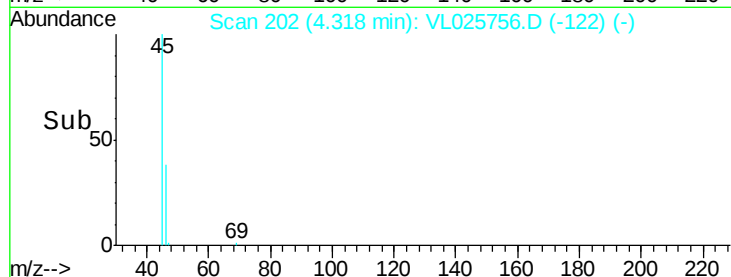
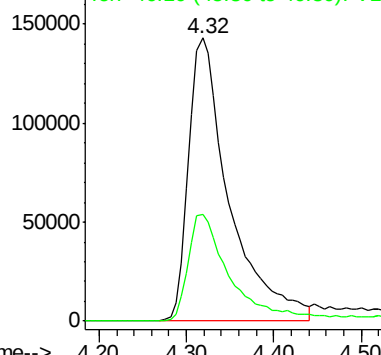
45 100

46 41.2 16.0 64.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 7.35 ppbv

RT: 4.60 min Scan# 248

Delta R.T. -0.00 min

Lab File: VL025756.D

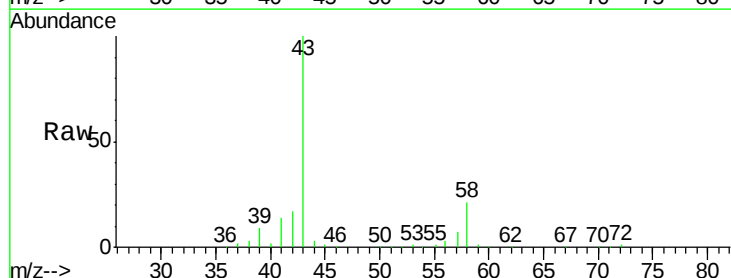
Acq: 27 Jul 2015 16:51

Tgt Ion: 43 Resp: 1102164

Ion Ratio Lower Upper

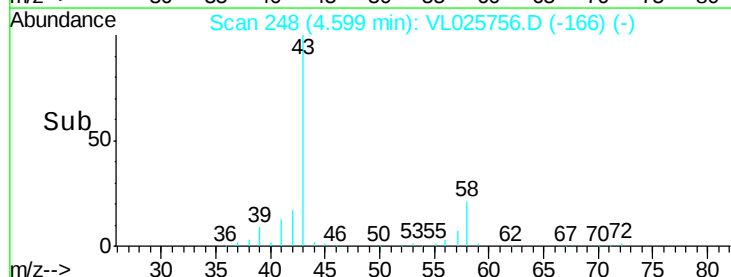
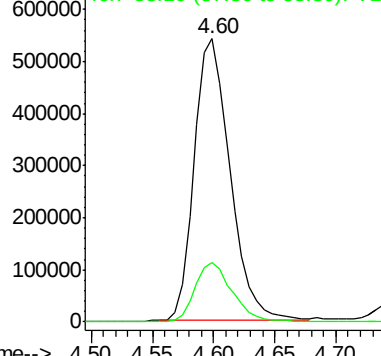
43 100

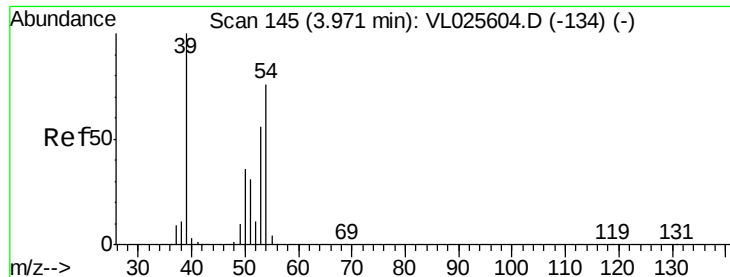
58 22.2 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#16

1,3-Butadiene

Concen: 3.71 ppbv

RT: 4.00 min Scan# 150

Delta R.T. 0.03 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

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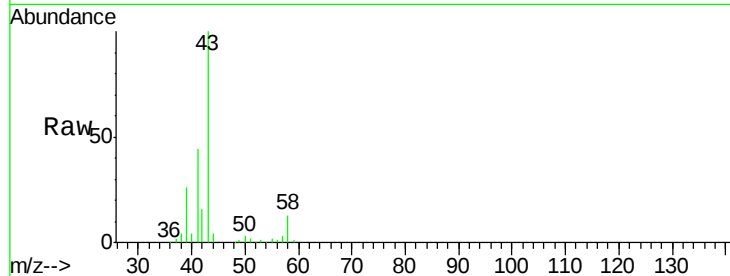
A-221-B

Tot Ion: 39 Resp: 221273

Ion Ratio Lower Upper

39 100

54 3.1 59.3 88.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

150000

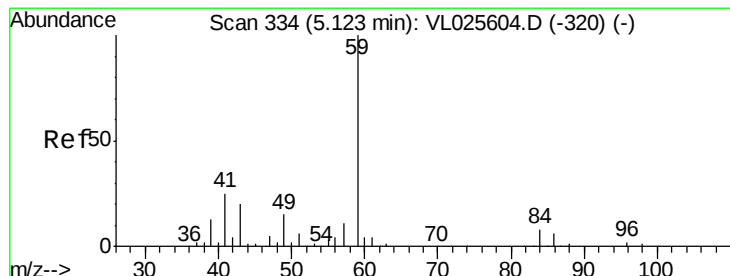
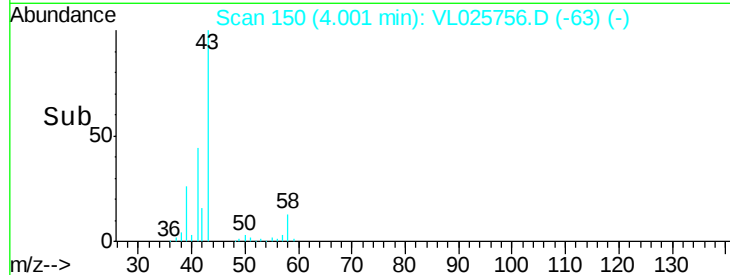
100000

50000

0

3.95 4.00 4.05

Time-->



#17

tert-Butyl alcohol

Concen: 0.23 ppbv

RT: 5.14 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL025756.D

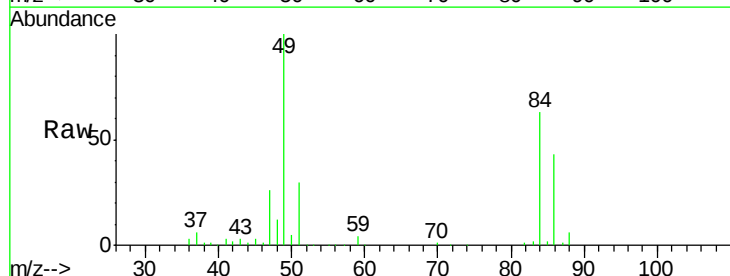
Acq: 27 Jul 2015 16:51

Tgt Ion: 59 Resp: 29259

Ion Ratio Lower Upper

59 100

57 13.9 9.4 14.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

12000

10000

8000

6000

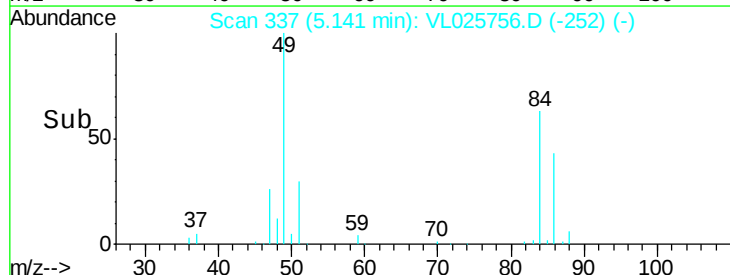
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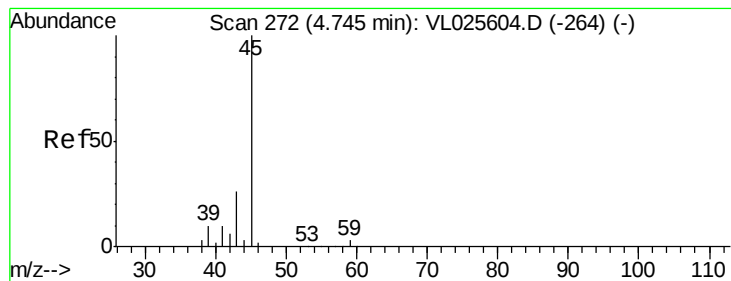
2000

0

5.05 5.10 5.15 5.20

Time-->





#19

Isopropyl Alcohol

Concen: 6.68 ppbv

RT: 4.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

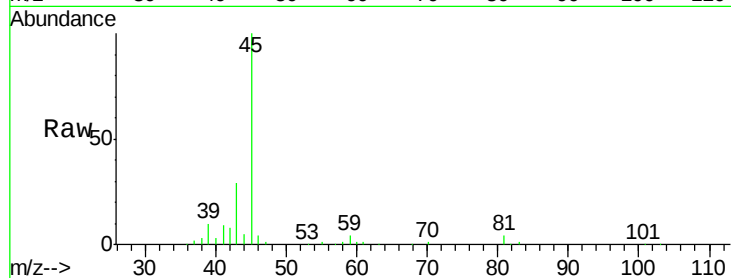
A-221-B

Tot Ion: 45 Resp: 400242

Ion Ratio Lower Upper

45 100

58 61.0 1.1 1.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.75

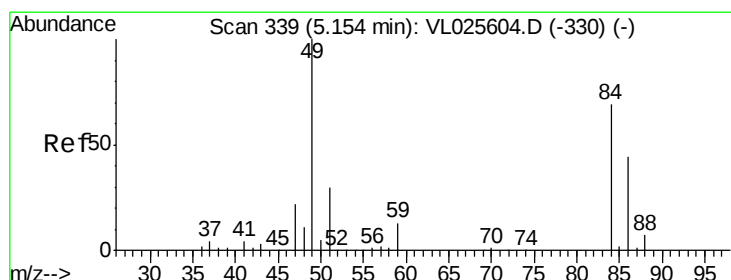
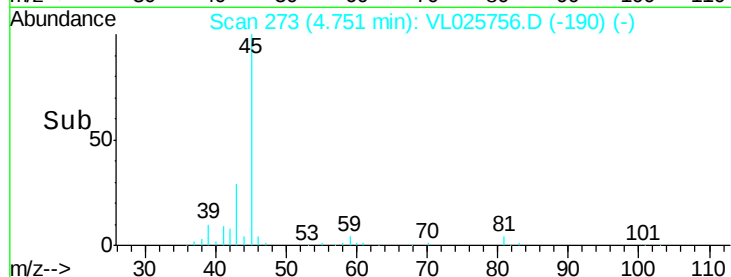
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 6.85 ppbv

RT: 5.15 min Scan# 338

Delta R.T. -0.01 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Tgt Ion: 84 Resp: 417273

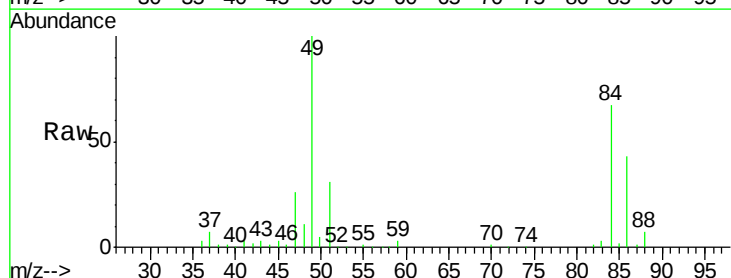
Ion Ratio Lower Upper

84 100

49 148.3 115.2 172.8

51 46.1 35.0 52.6

86 64.4 50.6 76.0



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

400000

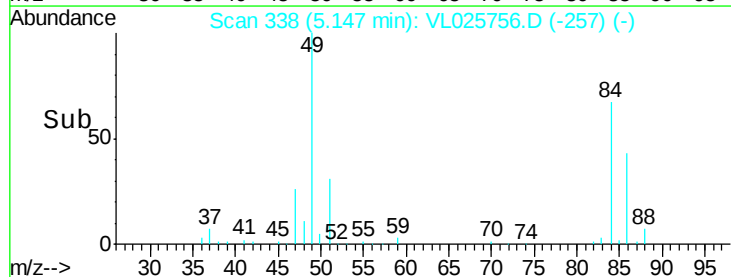
300000

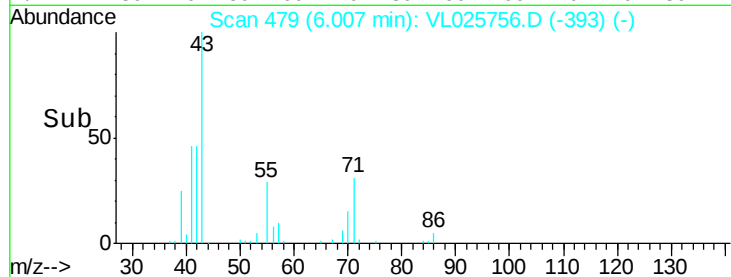
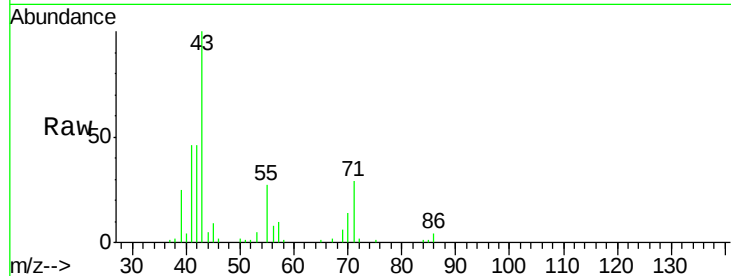
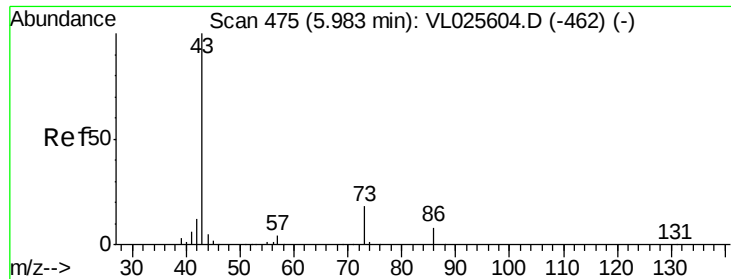
200000

100000

0

Time-->

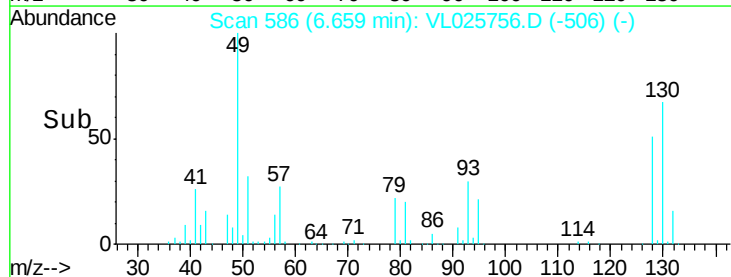
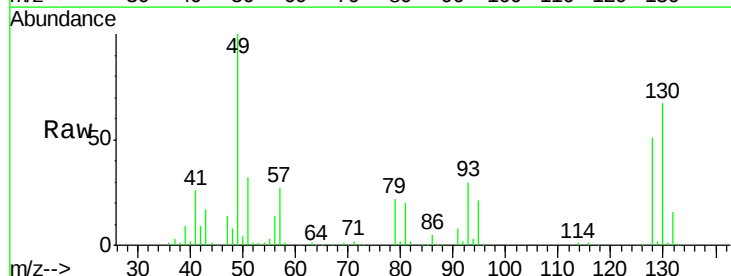
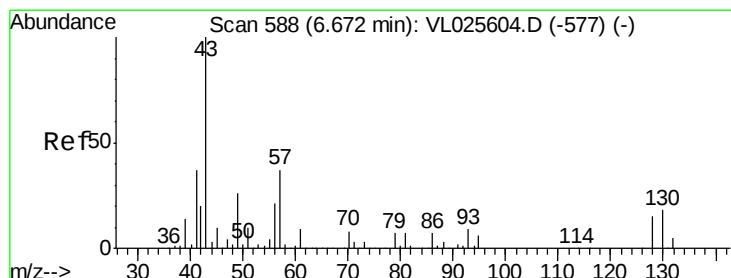
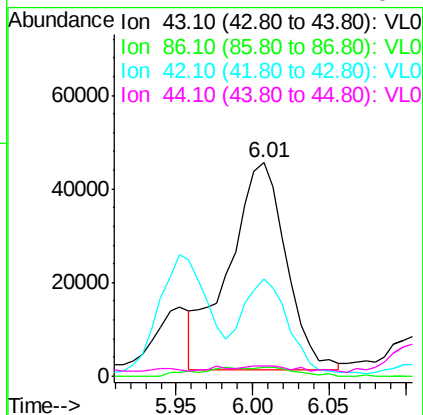




#23
 Vinyl Acetate
 Concen: 0.51 ppbv
 RT: 6.01 min Scan# 479
 Delta R.T. 0.02 min
 Lab File: VL025756.D
 Acq: 27 Jul 2015 16:51

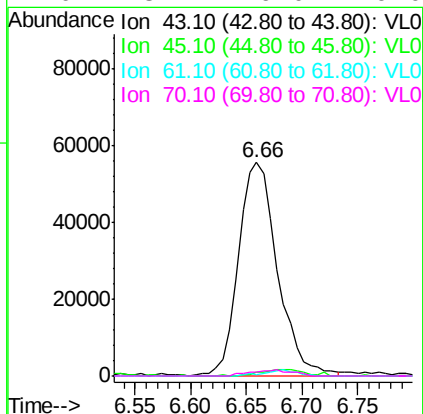
Instrument :
 MSVOA_L
 ClientSampleId :
 A-221-B

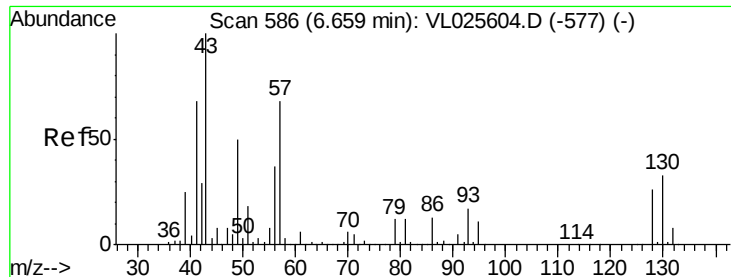
Tot Ion:	43	Resp:	115373
Ion	Ratio	Lower	Upper
43	100		
86	4.7	6.7	10.1#
42	46.8	9.8	14.6#
44	2.4	4.1	6.1#



#25
 Ethyl Acetate
 Concen: 0.60 ppbv
 RT: 6.66 min Scan# 586
 Delta R.T. -0.01 min
 Lab File: VL025756.D
 Acq: 27 Jul 2015 16:51

Tgt Ion:	43	Resp:	135253
Ion	Ratio	Lower	Upper
43	100		
45	3.8	7.5	11.3#
61	2.4	6.6	10.0#
70	3.1	6.0	9.0#

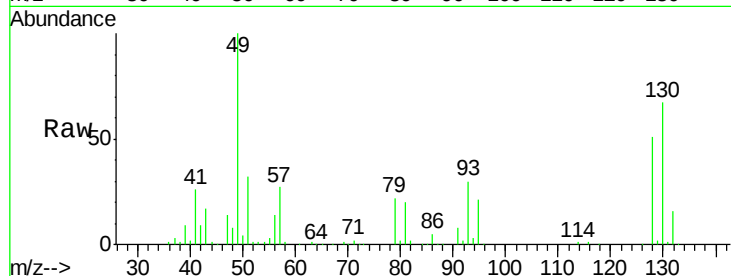




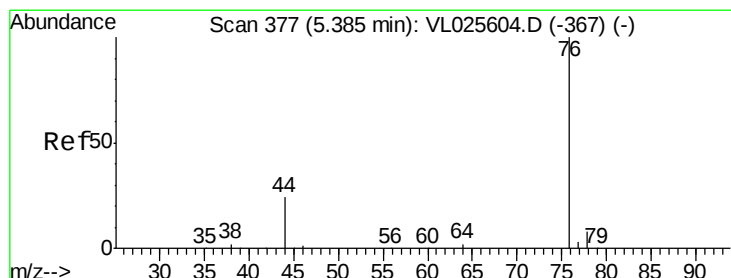
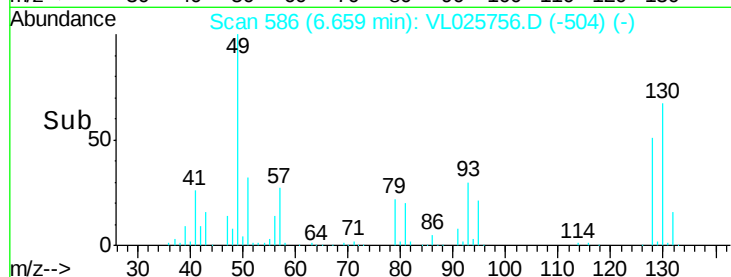
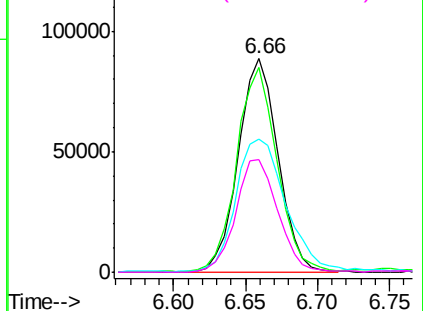
#26
Hexane
Concen: 1.59 ppbv
RT: 6.66 min Scan# 586
Delta R.T. -0.00 min
Lab File: VL025756.D
Acq: 27 Jul 2015 16:51

Instrument :
MSVOA_L
ClientSampleId :
A-221-B

Tot Ion: 57 Resp: 169797
Ion Ratio Lower Upper
57 100
41 100.7 81.4 122.2
43 82.0 171.4 257.2#
56 56.7 44.5 66.7

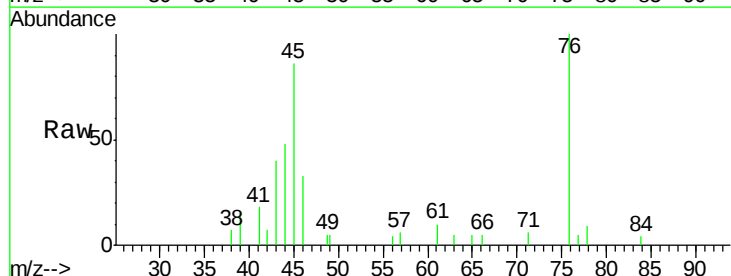


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

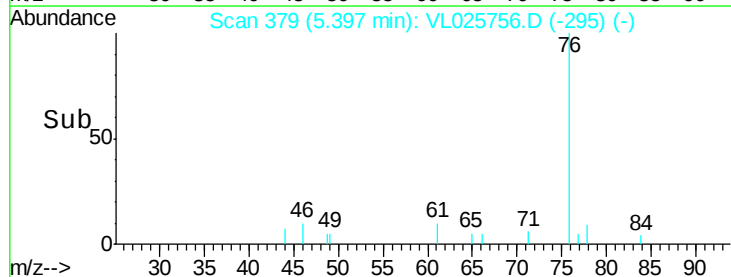
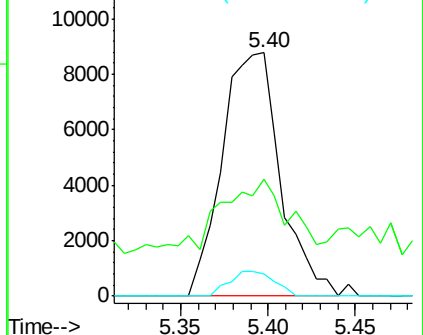


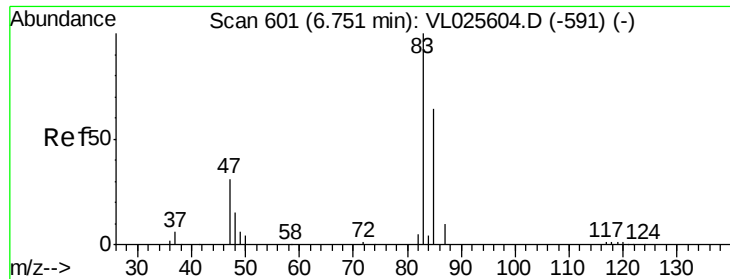
#27
Carbon Disulfide
Concen: 0.12 ppbv
RT: 5.40 min Scan# 379
Delta R.T. 0.01 min
Lab File: VL025756.D
Acq: 27 Jul 2015 16:51

Tgt Ion: 76 Resp: 20348
Ion Ratio Lower Upper
76 100
44 56.9 20.2 30.4#
78 7.7 7.4 11.2



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

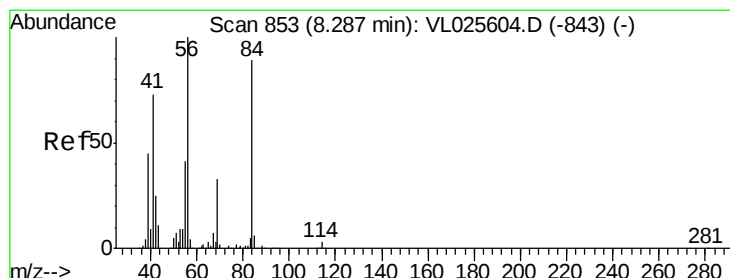
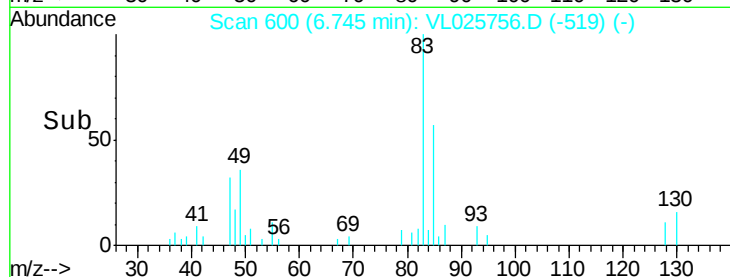
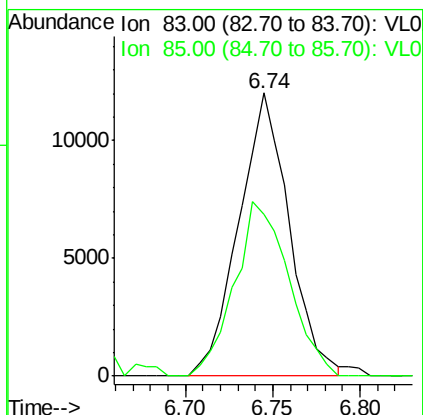
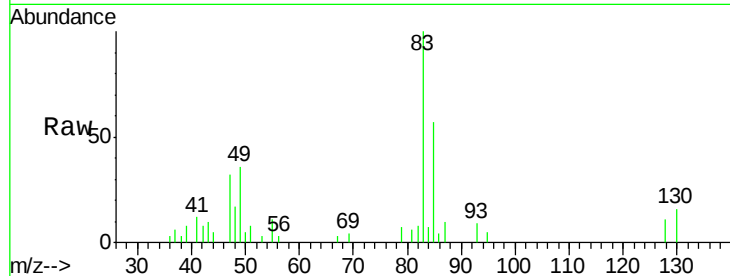




#29
Chloroform
Concen: 0.11 ppbv
RT: 6.74 min Scan# 600
Delta R.T. -0.01 min
Lab File: VL025756.D
Acq: 27 Jul 2015 16:51

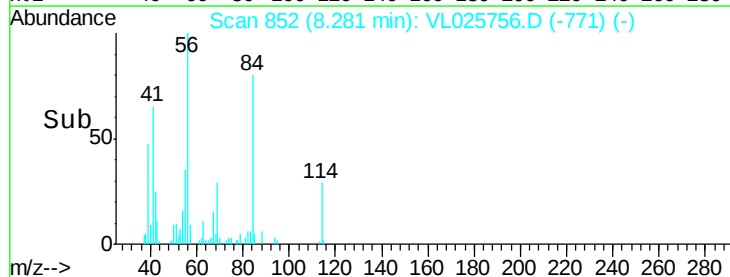
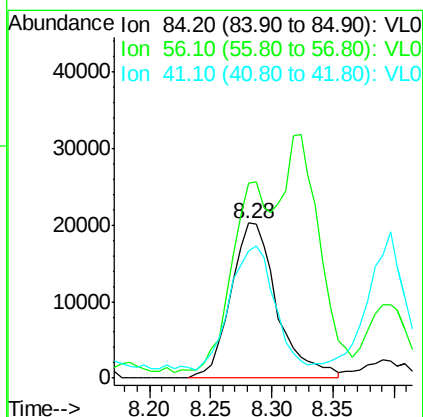
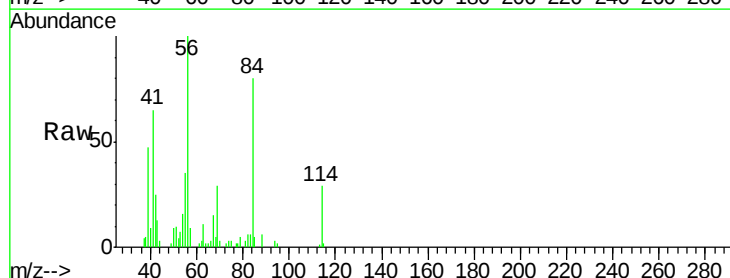
Instrument :
MSVOA_L
ClientSampleId :
A-221-B

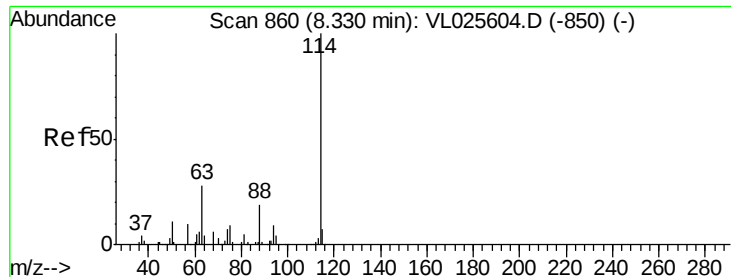
Tot Ion: 83 Resp: 24065
Ion Ratio Lower Upper
83 100
85 57.2 51.6 77.4



#30
Cyclohexane
Concen: 0.52 ppbv
RT: 8.28 min Scan# 852
Delta R.T. -0.01 min
Lab File: VL025756.D
Acq: 27 Jul 2015 16:51

Tgt Ion: 84 Resp: 53098
Ion Ratio Lower Upper
84 100
56 243.5 97.5 146.3#
41 87.4 65.4 98.2

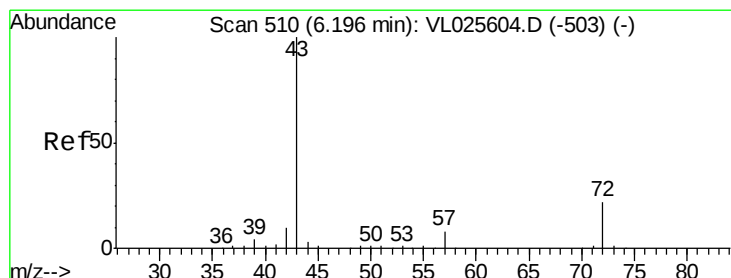
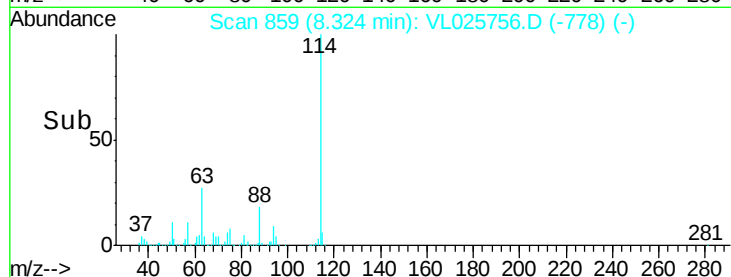
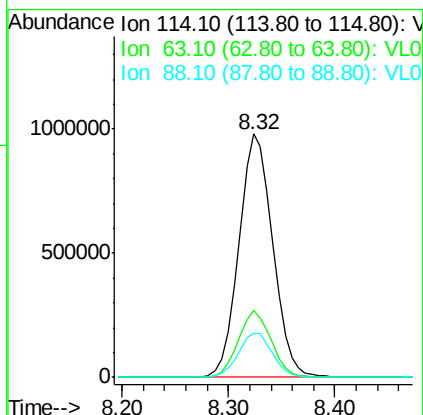
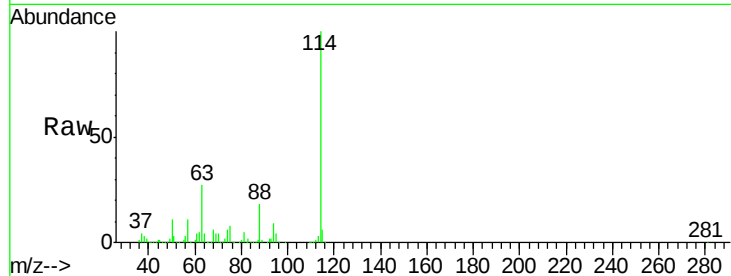




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.32 min Scan# 859
 Delta R.T. -0.01 min
 Lab File: VL025756.D
 Acq: 27 Jul 2015 16:51

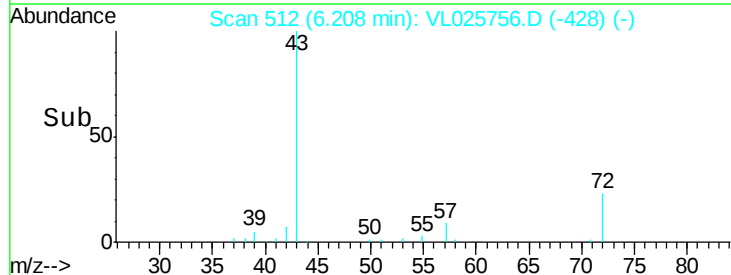
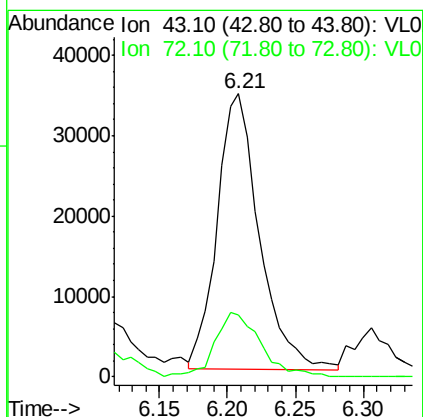
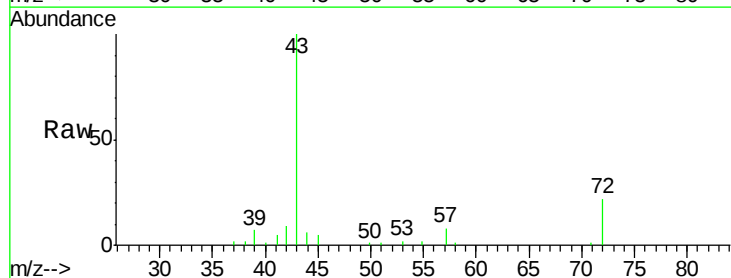
Instrument :
 MSVOA_L
 ClientSampleId :
 A-221-B

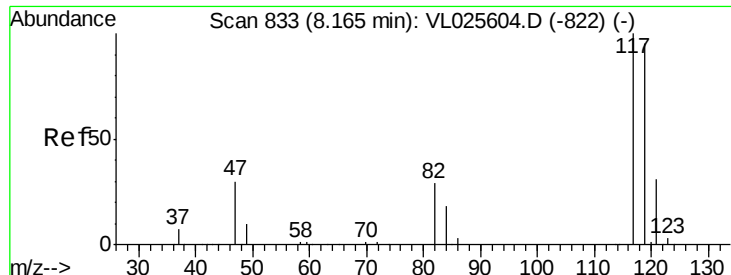
Tot Ion:114 Resp: 2190239
 Ion Ratio Lower Upper
 114 100
 63 26.8 22.4 33.6
 88 18.5 15.0 22.4



#34
 2-Butanone
 Concen: 0.59 ppbv
 RT: 6.21 min Scan# 512
 Delta R.T. 0.01 min
 Lab File: VL025756.D
 Acq: 27 Jul 2015 16:51

Tgt Ion: 43 Resp: 73813
 Ion Ratio Lower Upper
 43 100
 72 25.1 18.6 28.0





#35

Carbon Tetrachloride

Concen: 0.06 ppbv

RT: 8.16 min Scan# 832

Delta R.T. -0.01 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

A-221-B

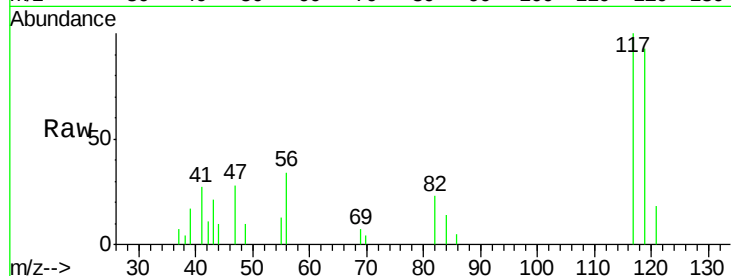
Tot Ion:117 Resp: 14469

Ion Ratio Lower Upper

117 100

119 93.3 75.9 113.9

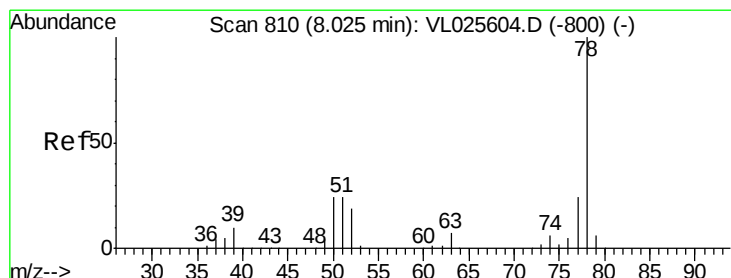
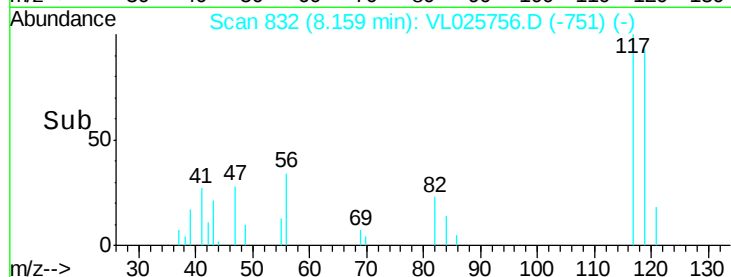
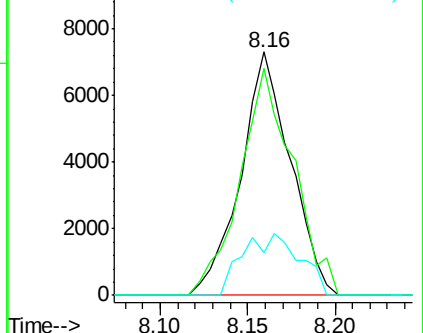
121 17.8 24.4 36.6#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.33 ppbv

RT: 8.02 min Scan# 810

Delta R.T. -0.00 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

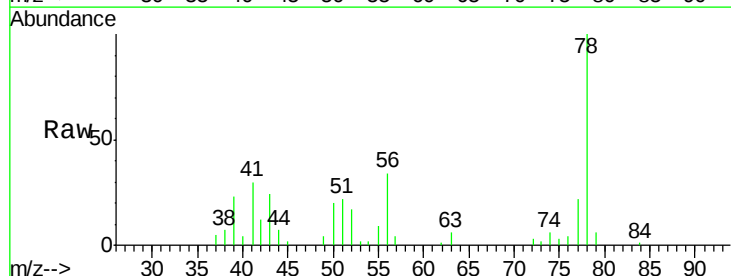
Tgt Ion: 78 Resp: 68781

Ion Ratio Lower Upper

78 100

77 21.9 19.0 28.4

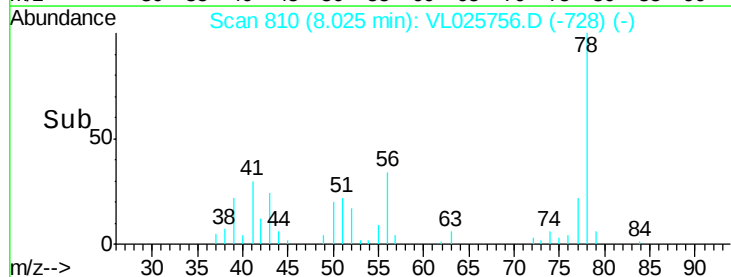
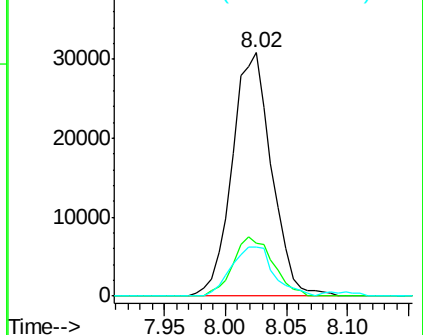
50 19.9 19.2 28.8

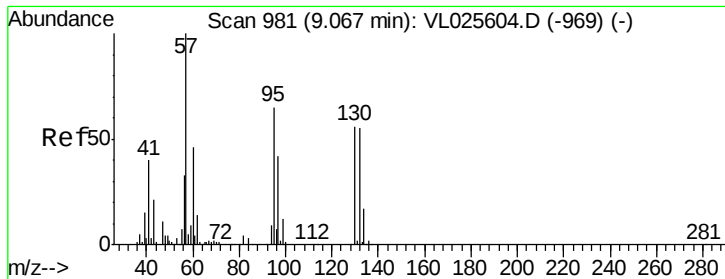


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

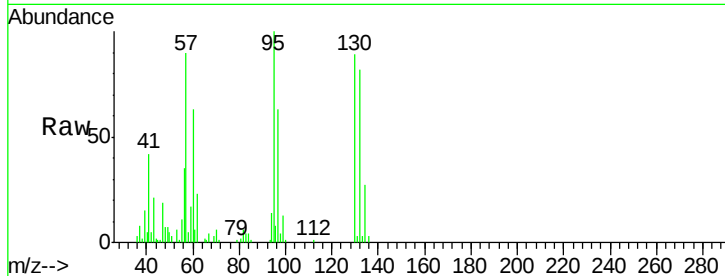




#38
 Trichloroethene
 Concen: 0.75 ppbv
 RT: 9.07 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VL025756.D
 Acq: 27 Jul 2015 16:51

Instrument :
 MSVOA_L
 ClientSampleId :
 A-221-B

Tot Ion:130	Resp:	73111
Ion	Ratio	Lower Upper
130	100	
95	110.7	94.2 141.4
132	92.0	78.6 118.0
97	70.7	60.6 90.8

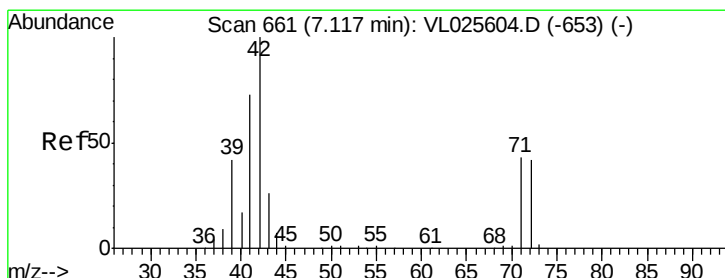
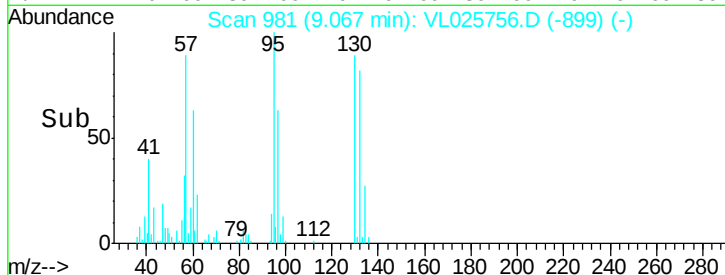
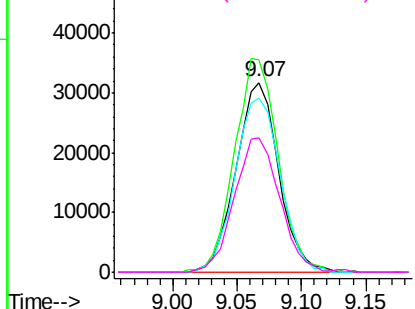


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

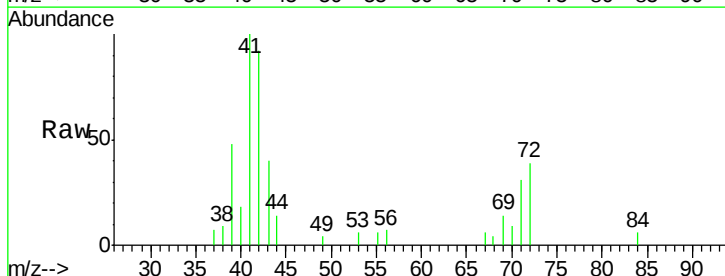
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#41
 Tetrahydrofuran
 Concen: 0.33 ppbv
 RT: 7.14 min Scan# 665
 Delta R.T. 0.02 min
 Lab File: VL025756.D
 Acq: 27 Jul 2015 16:51

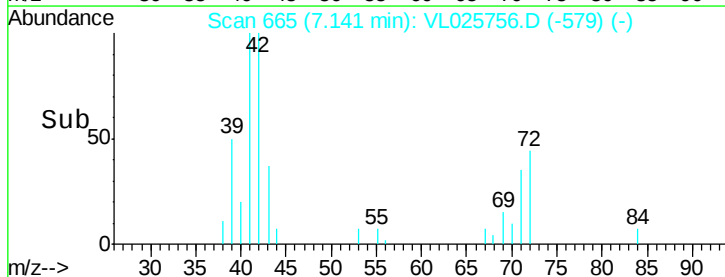
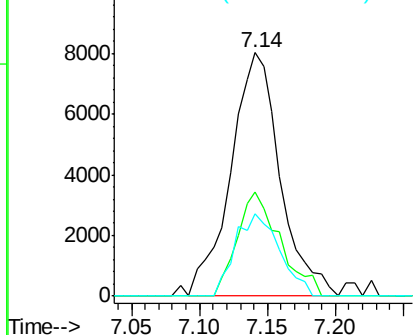
Tgt Ion: 42	Resp:	20358
Ion	Ratio	Lower Upper
42	100	
72	37.1	34.0 51.0
71	30.5	33.0 49.6#

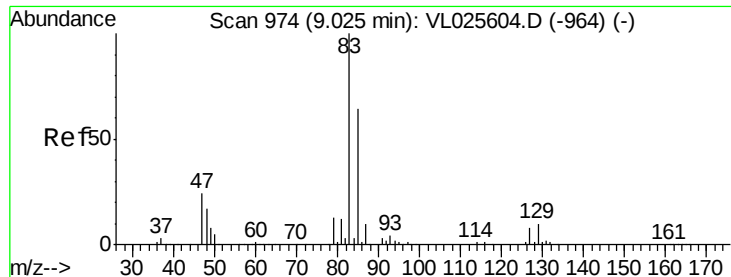


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.03 ppbv

RT: 9.02 min Scan# 974

Delta R.T. -0.00 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

A-221-B

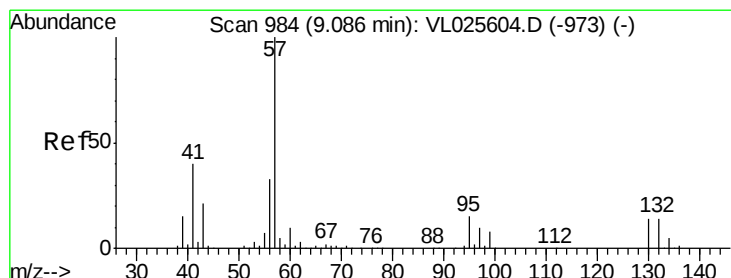
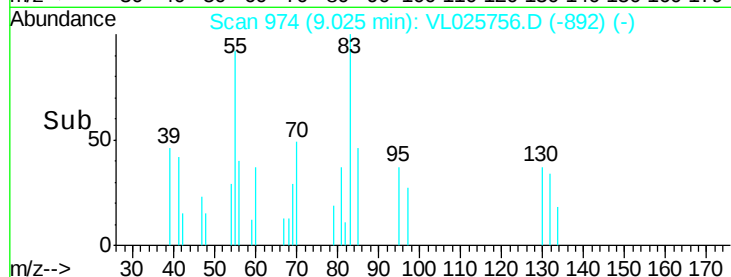
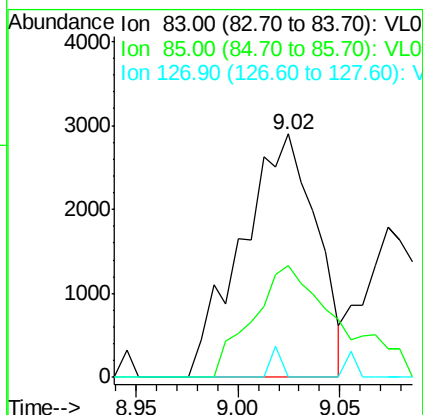
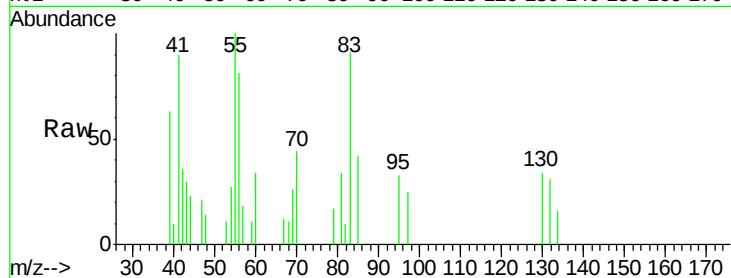
Tot Ion: 83 Resp: 7368

Ion Ratio Lower Upper

83 100

85 45.9 51.3 76.9#

127 0.0 6.0 9.0#



#44

2,2,4-Trimethylpentane

Concen: 0.43 ppbv

RT: 9.09 min Scan# 984

Delta R.T. -0.00 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

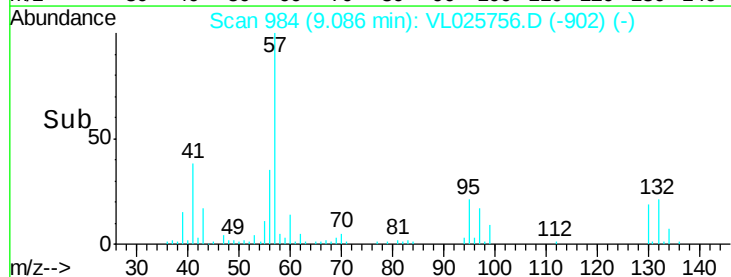
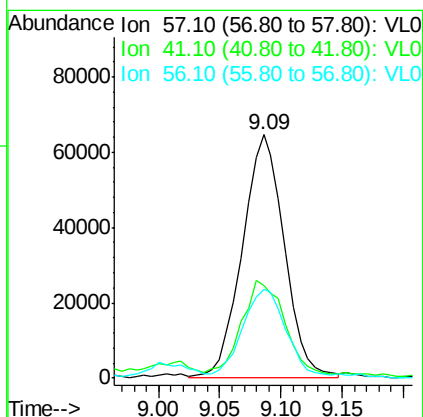
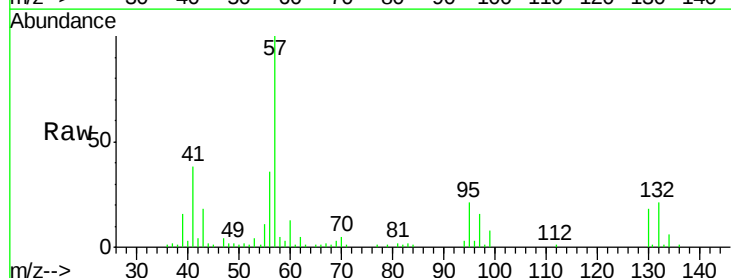
Tgt Ion: 57 Resp: 153934

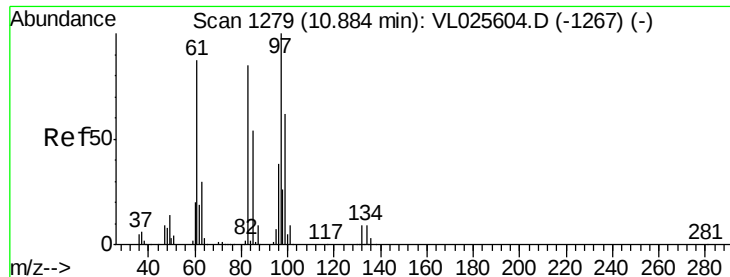
Ion Ratio Lower Upper

57 100

41 53.7 31.2 46.8#

56 46.0 25.4 38.2#





#47

1,1,2-Trichloroethane

Concen: 0.04 ppbv

RT: 10.87 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

A-221-B

Tot Ion: 97 Resp: 4508

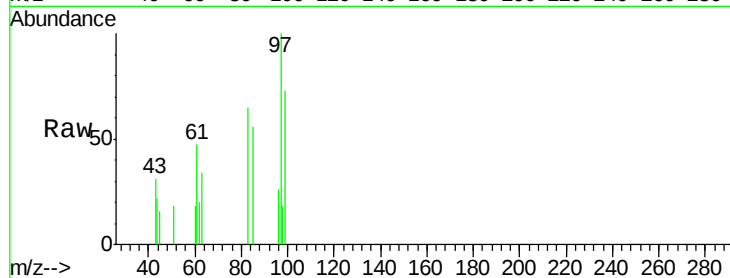
Ion Ratio Lower Upper

97 100

83 43.1 67.8 101.8#

85 56.3 43.5 65.3

99 73.3 49.8 74.8

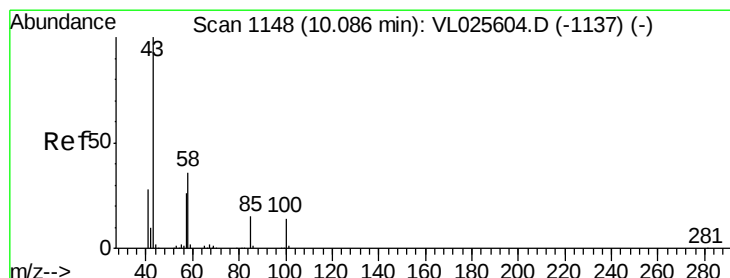
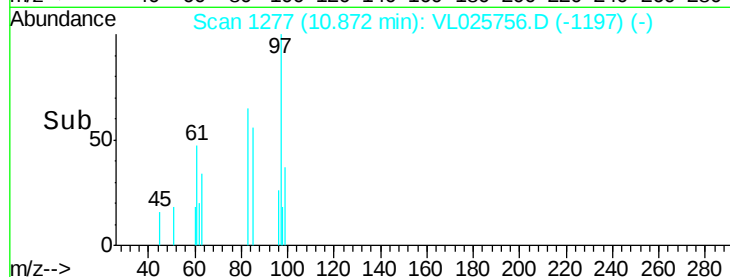
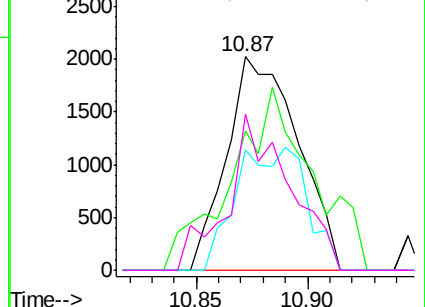


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#50

4-Methyl-2-Pentanone

Concen: 3.15 ppbv

RT: 10.09 min Scan# 1149

Delta R.T. 0.01 min

Lab File: VL025756.D

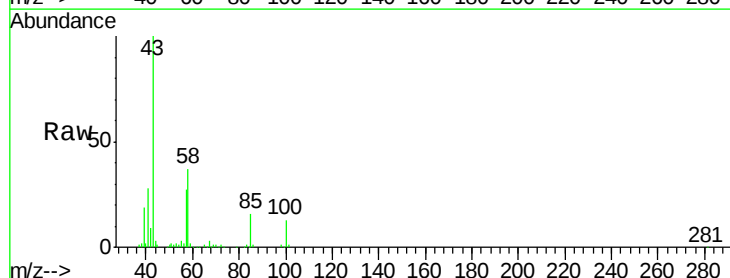
Acq: 27 Jul 2015 16:51

Tgt Ion: 43 Resp: 564746

Ion Ratio Lower Upper

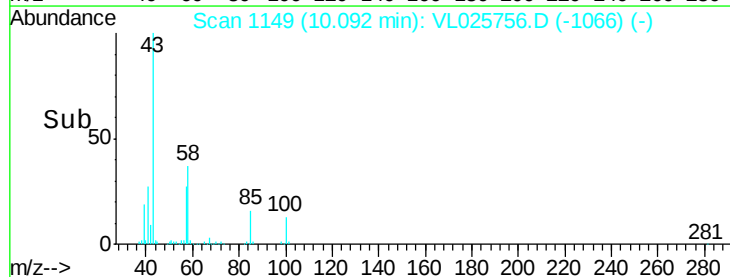
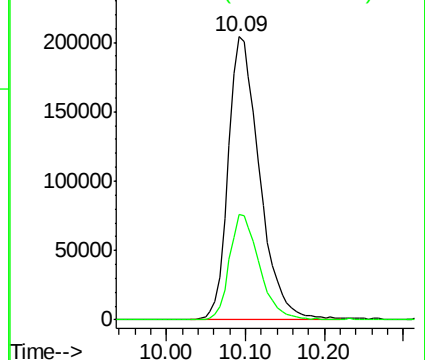
43 100

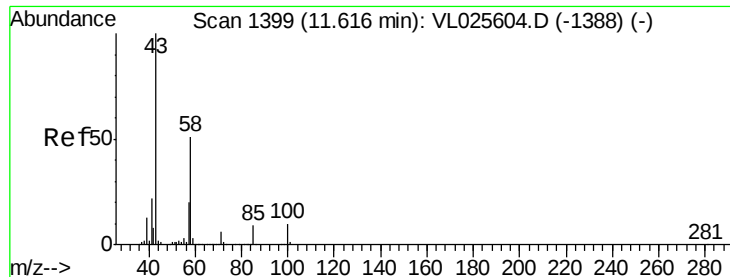
58 36.0 28.5 42.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.20 ppbv

RT: 11.66 min Scan# 1406

Delta R.T. 0.04 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

A-221-B

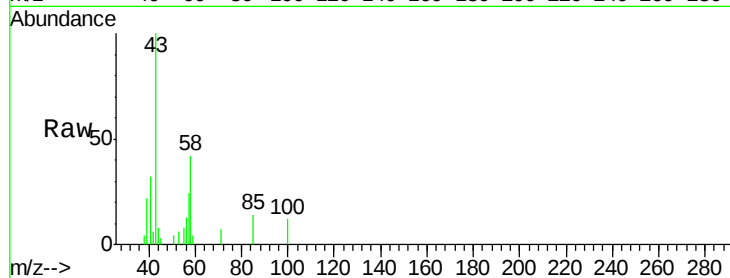
Tot Ion: 43 Resp: 32110

Ion Ratio Lower Upper

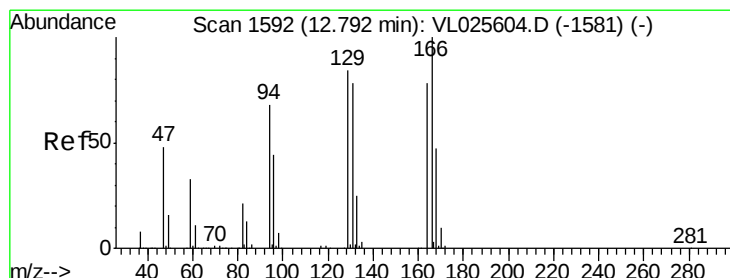
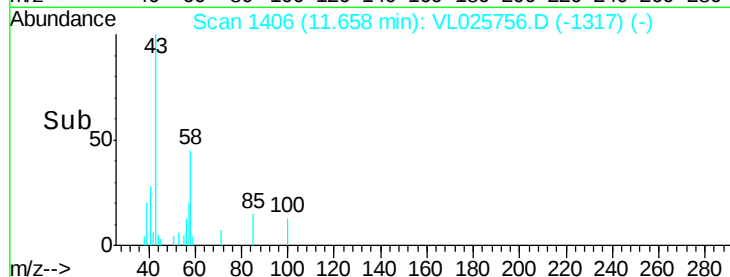
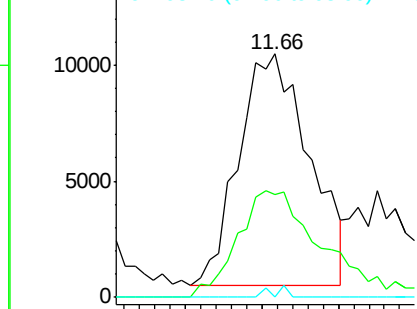
43 100

58 55.3 39.0 58.6

98 0.0 0.2 0.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 440.21 ppbv

RT: 12.91 min Scan# 1611

Delta R.T. 0.12 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Tgt Ion:164 Resp:46313207

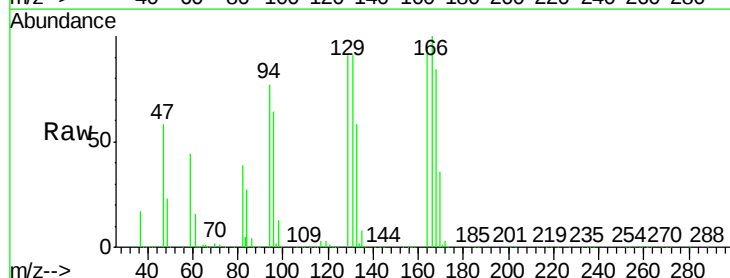
Ion Ratio Lower Upper

164 100

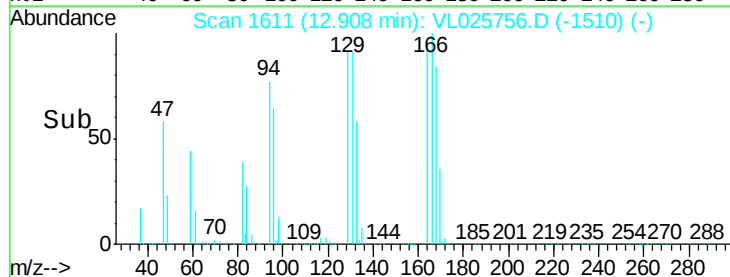
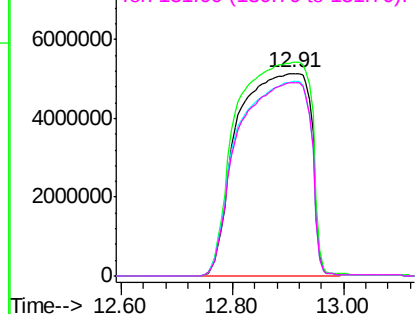
166 105.1 102.3 153.5

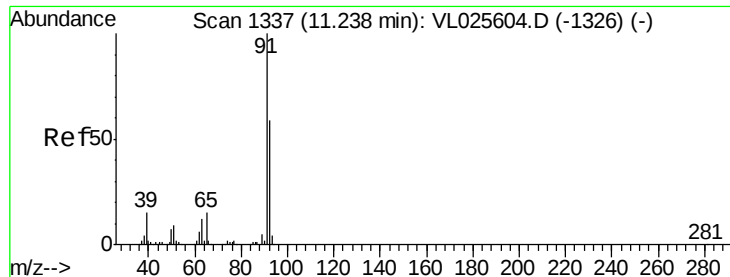
129 95.9 86.2 129.4

131 95.4 80.3 120.5



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 1.16 ppbv

RT: 11.24 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

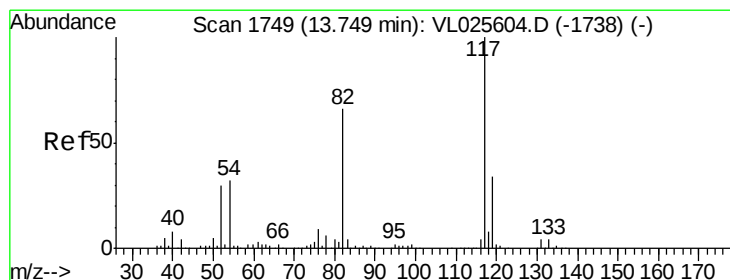
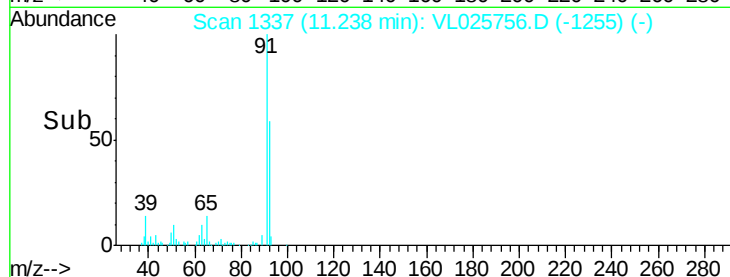
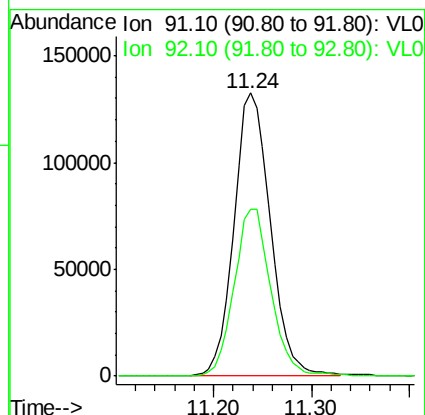
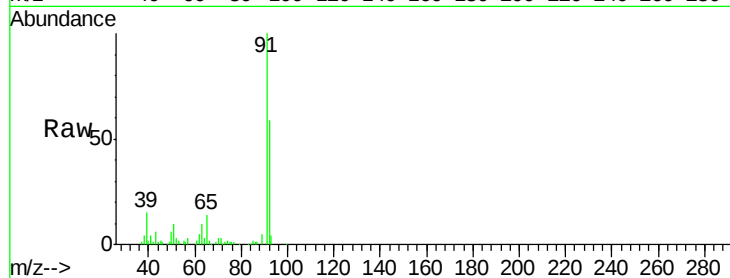
A-221-B

Tot Ion: 91 Resp: 342550

Ion Ratio Lower Upper

91 100

92 59.7 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.79 min Scan# 1756

Delta R.T. 0.04 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

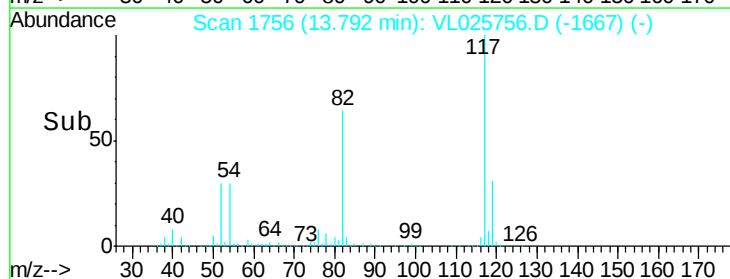
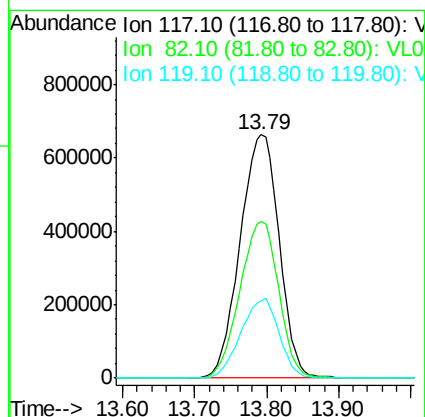
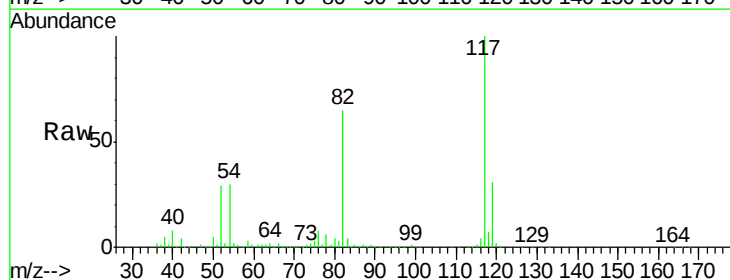
Tgt Ion: 117 Resp: 2498276

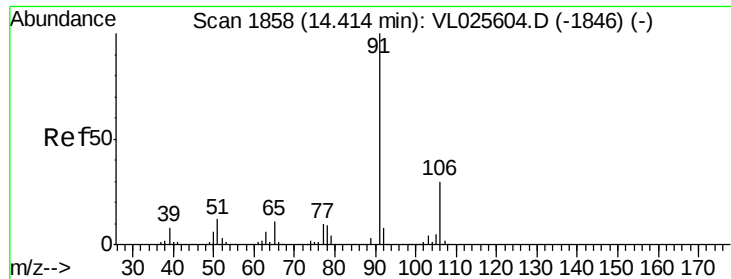
Ion Ratio Lower Upper

117 100

82 64.3 50.5 75.7

119 32.1 45.1 67.7#





#58

Ethyl Benzene

Concen: 0.31 ppbv

RT: 14.46 min Scan# 1866

Delta R.T. 0.05 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

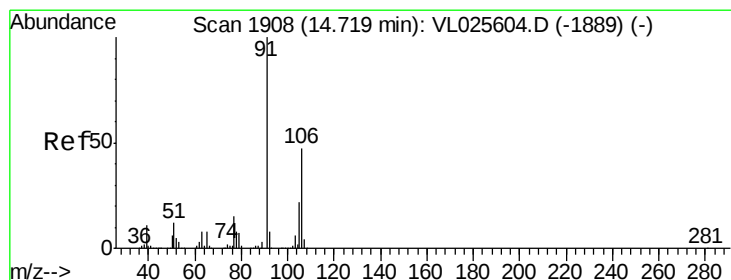
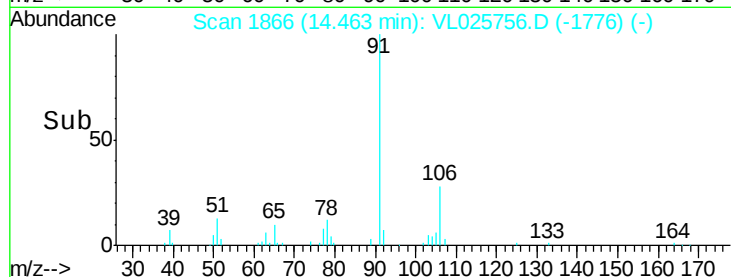
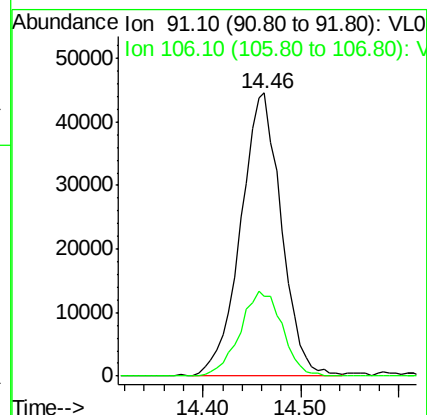
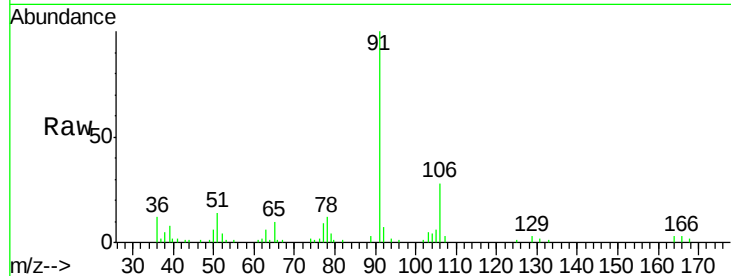
A-221-B

Tot Ion: 91 Resp: 128674

Ion Ratio Lower Upper

91 100

106 28.2 24.2 36.2



#59

m/p-Xylene

Concen: 0.91 ppbv

RT: 14.73 min Scan# 1910

Delta R.T. 0.01 min

Lab File: VL025756.D

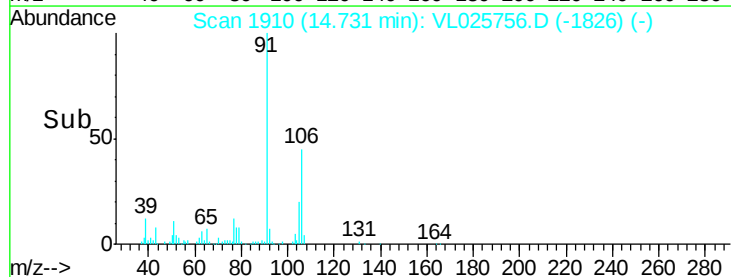
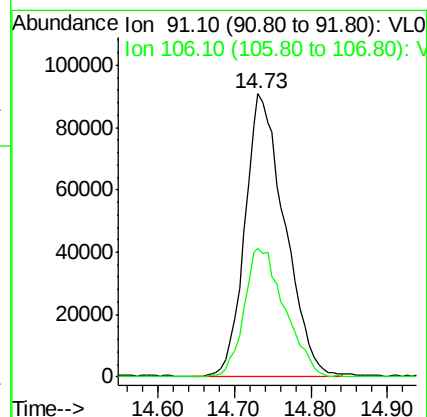
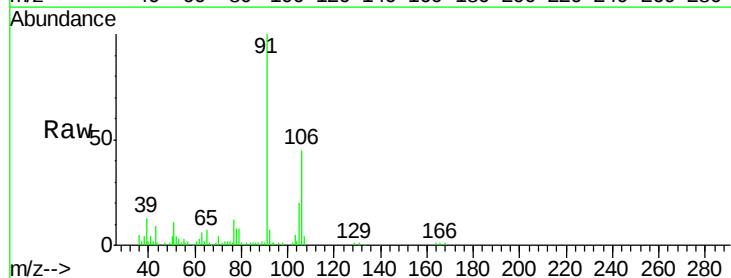
Acq: 27 Jul 2015 16:51

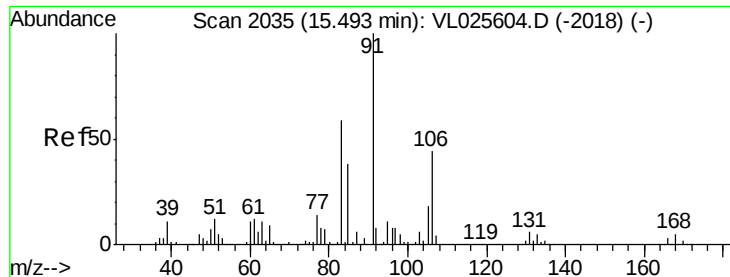
Tgt Ion: 91 Resp: 328351

Ion Ratio Lower Upper

91 100

106 46.3 37.9 56.9

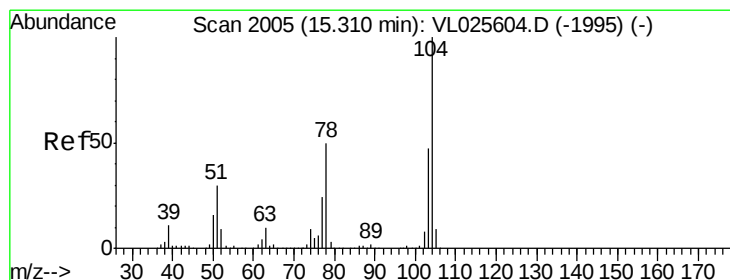
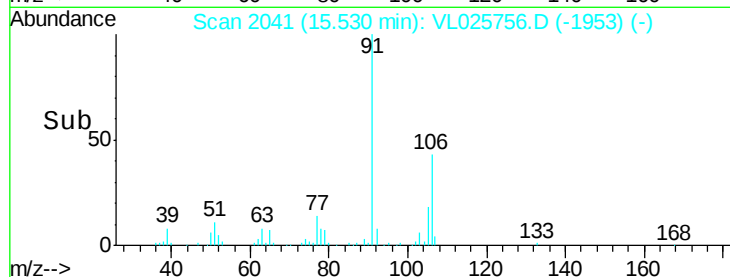
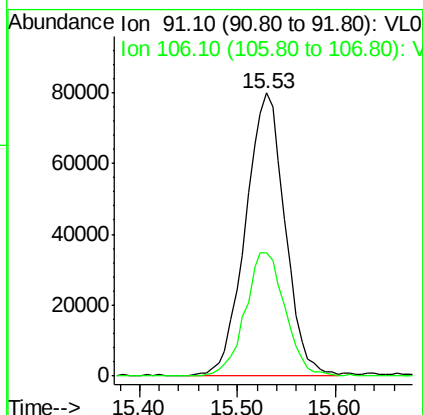
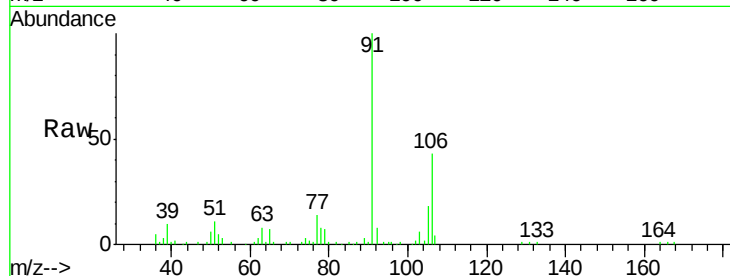




#60
o-Xylene
Concen: 0.57 ppbv
RT: 15.53 min Scan# 2041
Delta R.T. 0.04 min
Lab File: VL025756.D
Acq: 27 Jul 2015 16:51

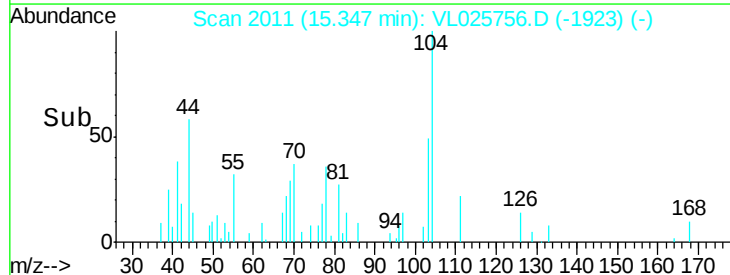
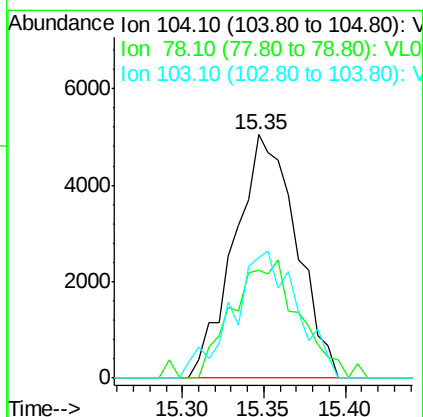
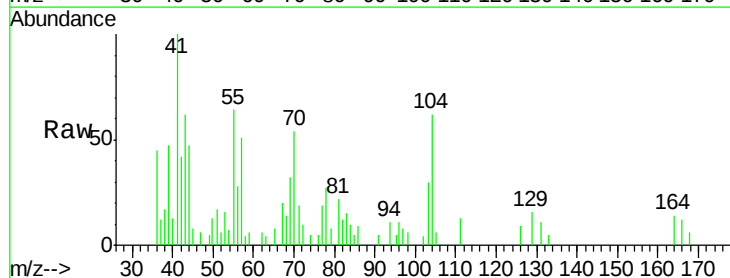
Instrument :
MSVOA_L
ClientSampleId :
A-221-B

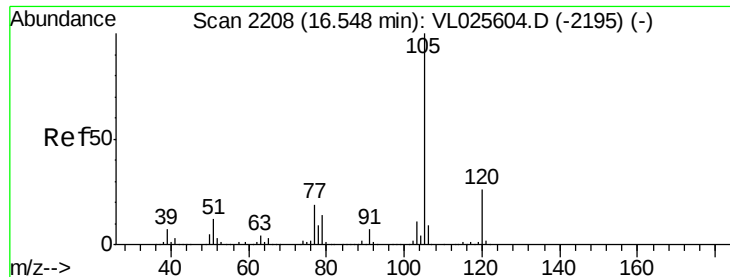
Tot Ion: 91 Resp: 223812
Ion Ratio Lower Upper
91 100
106 44.1 22.1 66.1



#61
Styrene
Concen: 0.10 ppbv
RT: 15.35 min Scan# 2011
Delta R.T. 0.04 min
Lab File: VL025756.D
Acq: 27 Jul 2015 16:51

Tgt Ion: 104 Resp: 13313
Ion Ratio Lower Upper
104 100
78 53.5 40.2 60.4
103 54.7 37.4 56.2





#62

Isopropylbenzene

Concen: 0.12 ppbv

RT: 16.57 min Scan# 2212

Delta R.T. 0.02 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

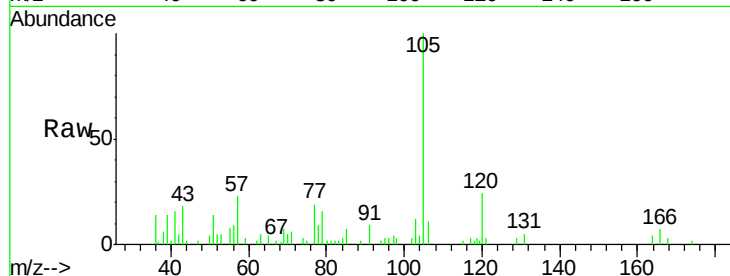
A-221-B

Tot Ion:105 Resp: 62851

Ion Ratio Lower Upper

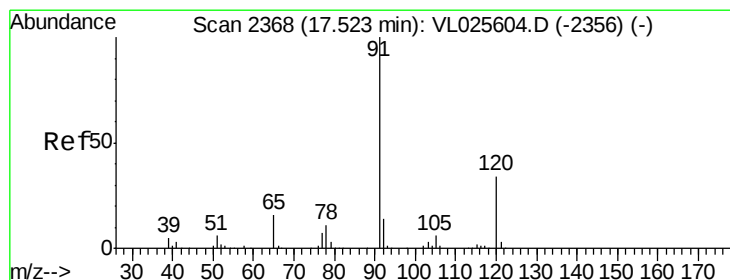
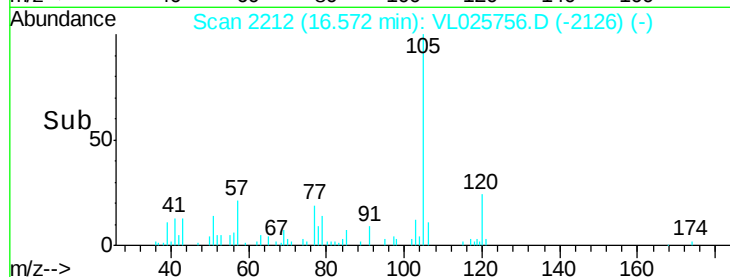
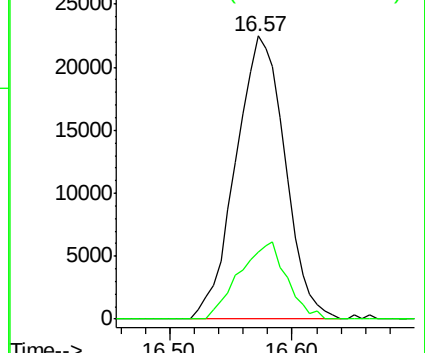
105 100

120 26.2 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.68 ppbv

RT: 17.54 min Scan# 2371

Delta R.T. 0.02 min

Lab File: VL025756.D

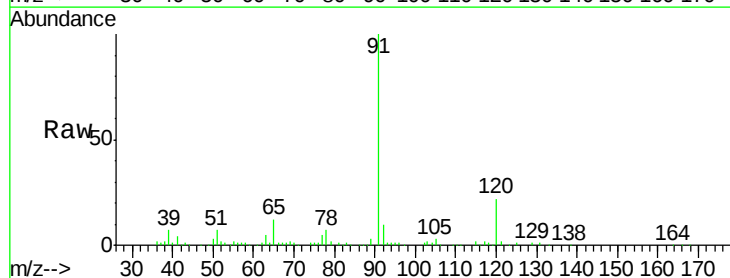
Acq: 27 Jul 2015 16:51

Tgt Ion:120 Resp: 94217

Ion Ratio Lower Upper

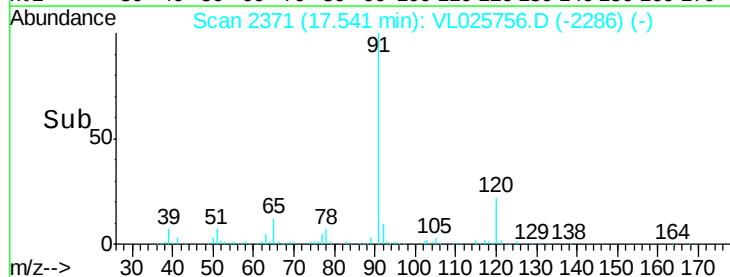
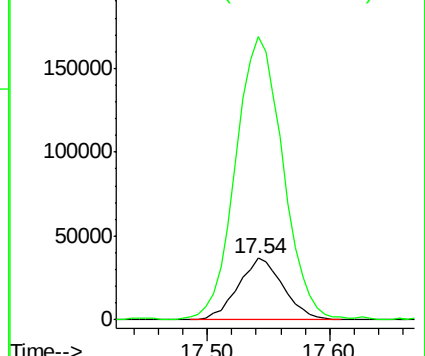
120 100

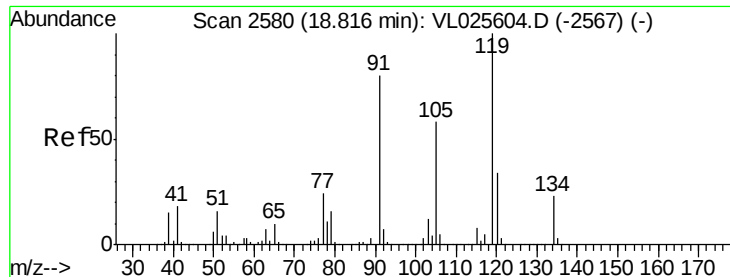
91 482.1 370.5 555.7



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

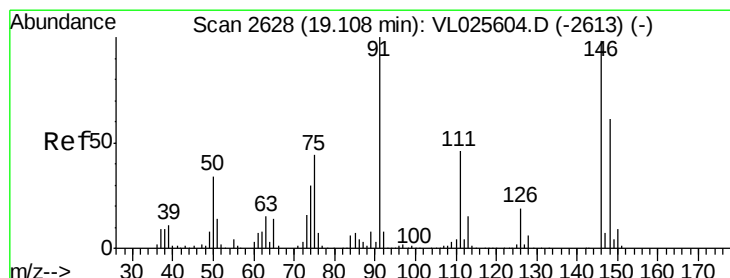
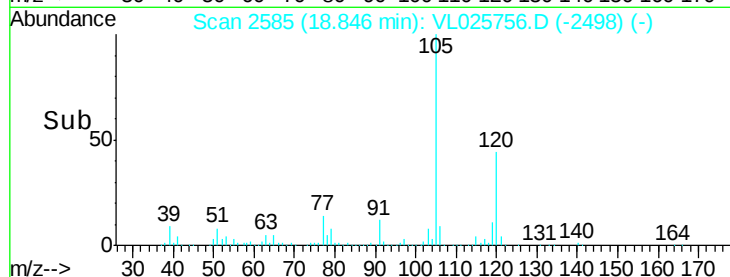
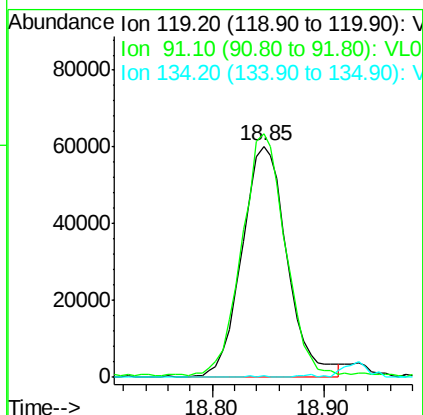
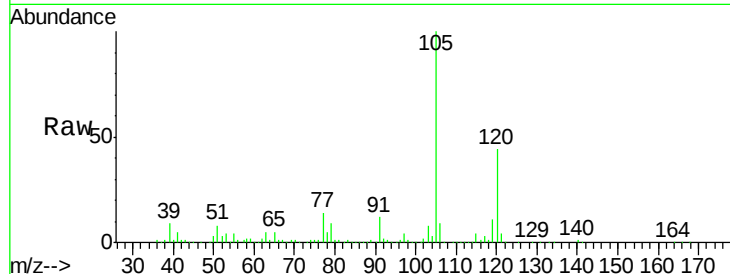




#65
tert-Butylbenzene
Concen: 0.34 ppbv
RT: 18.85 min Scan# 2585
Delta R.T. 0.03 min
Lab File: VL025756.D
Acq: 27 Jul 2015 16:51

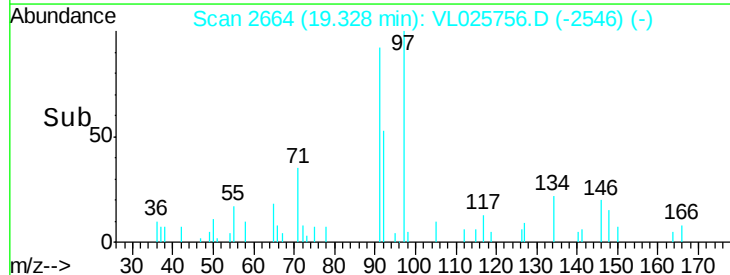
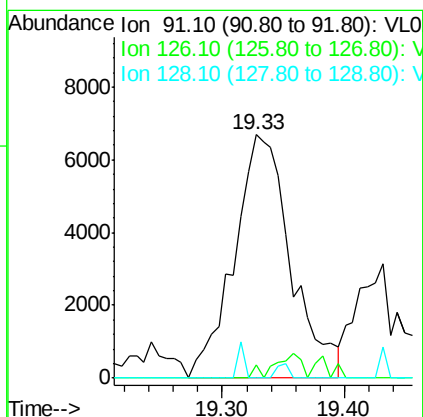
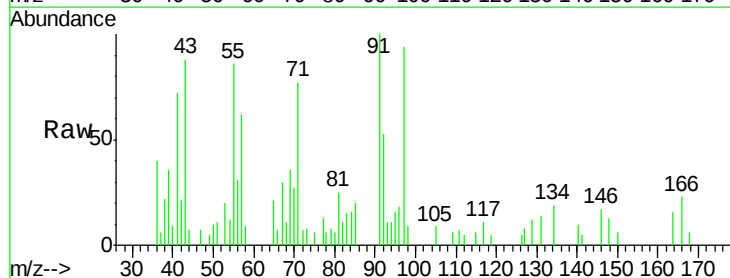
Instrument :
MSVOA_L
ClientSampleId :
A-221-B

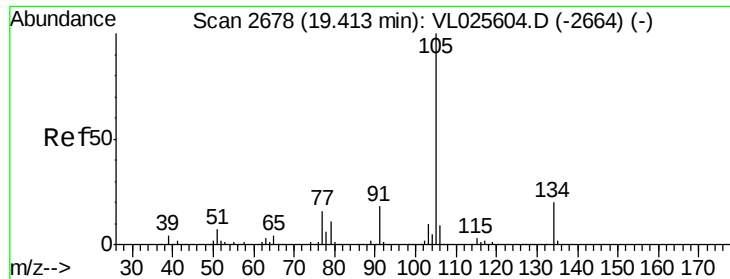
Tot Ion:119 Resp: 170199
Ion Ratio Lower Upper
119 100
91 105.3 64.5 96.7#
134 0.0 17.4 26.0#



#66
Benzyl Chloride
Concen: 0.12 ppbv
RT: 19.33 min Scan# 2664
Delta R.T. 0.22 min
Lab File: VL025756.D
Acq: 27 Jul 2015 16:51

Tgt Ion: 91 Resp: 21595
Ion Ratio Lower Upper
91 100
126 7.1 14.5 21.7#
128 0.0 4.6 7.0#





#67

sec-Butylbenzene

Concen: 0.04 ppbv

RT: 19.43 min Scan# 2681

Delta R.T. 0.02 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

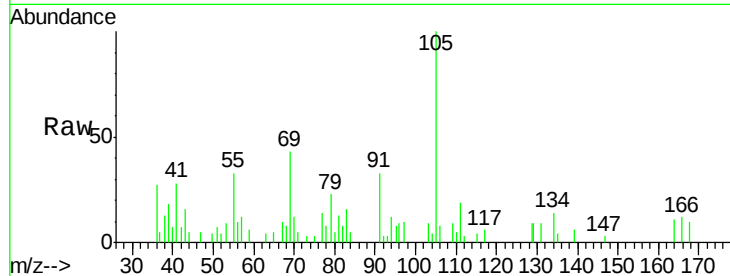
A-221-B

Tot Ion:105 Resp: 28629

Ion Ratio Lower Upper

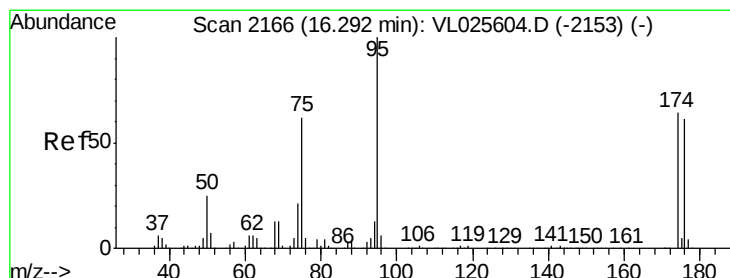
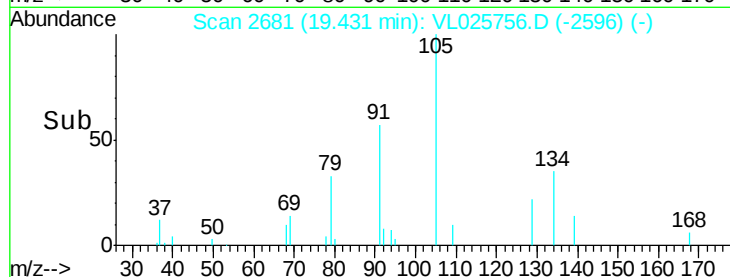
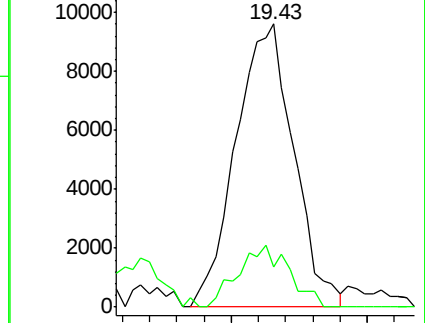
105 100

134 19.1 15.4 23.2



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: 8.76 ppbv

RT: 16.32 min Scan# 2170

Delta R.T. 0.02 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

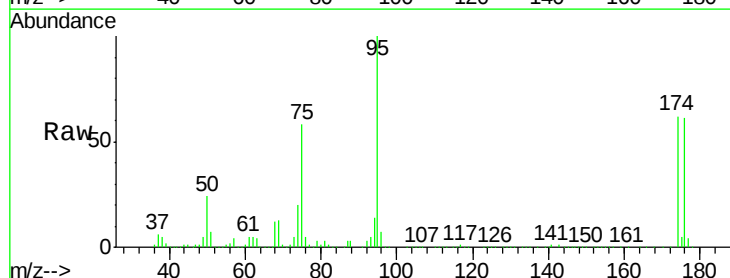
Tgt Ion: 95 Resp: 1845809

Ion Ratio Lower Upper

95 100

174 64.4 52.0 78.0

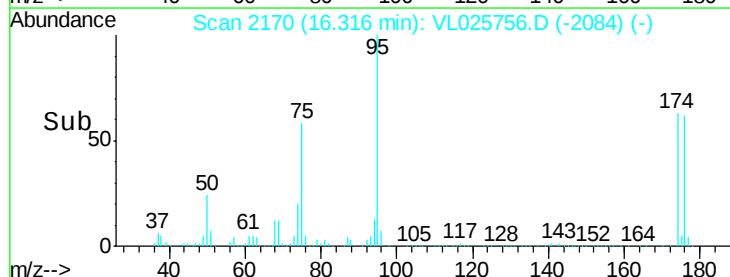
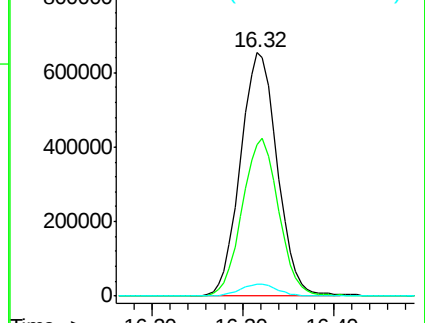
175 4.9 3.9 5.9

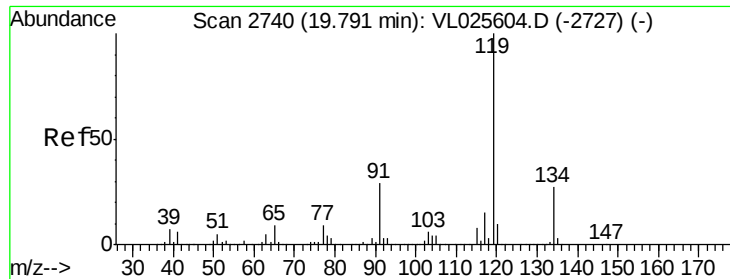


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

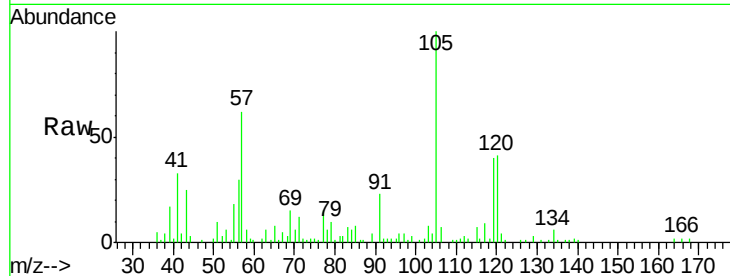




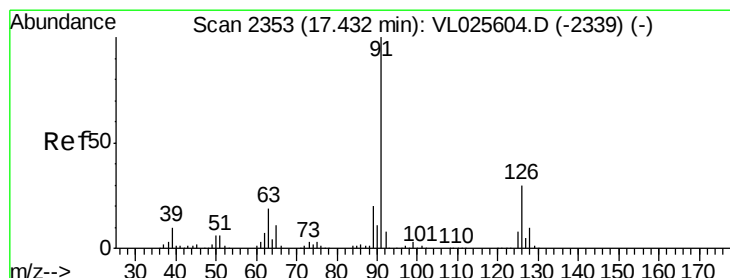
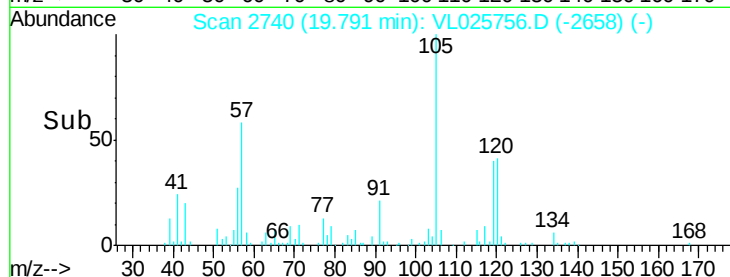
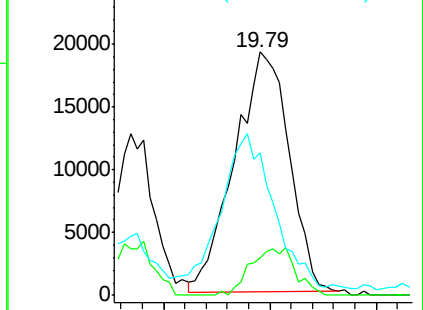
#69
 p-Isopropyltoluene
 Concen: 0.12 ppbv
 RT: 19.79 min Scan# 2740
 Delta R.T. -0.00 min
 Lab File: VL025756.D
 Acq: 27 Jul 2015 16:51

Instrument :
 MSVOA_L
 ClientSampled :
 A-221-B

Tot Ion:119 Resp: 68800
 Ion Ratio Lower Upper
 119 100
 134 16.1 20.7 31.1#
 91 64.1 22.6 34.0#

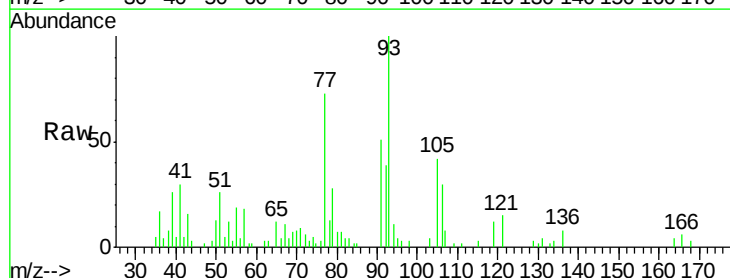


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

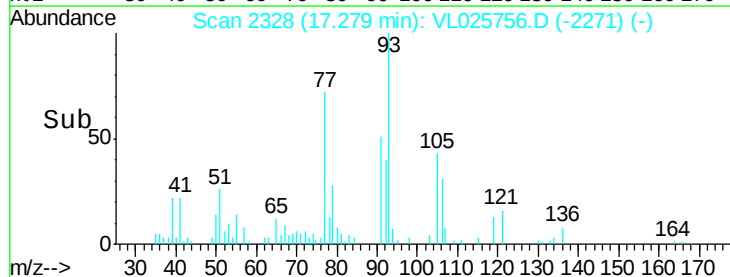
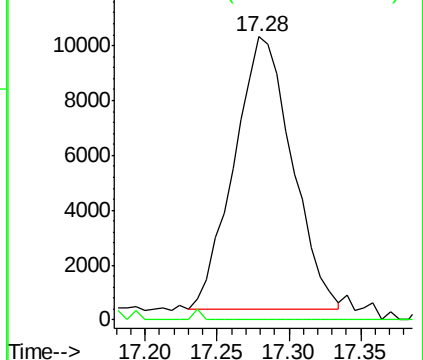


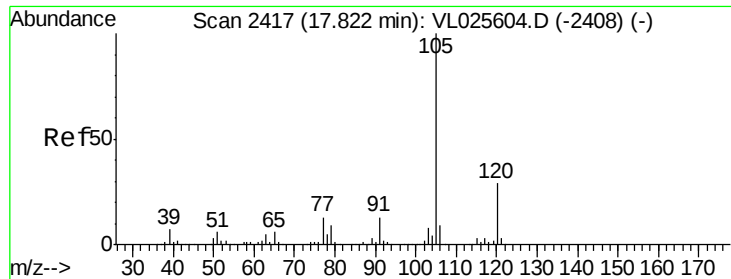
#71
 2-Chlorotoluene
 Concen: 0.07 ppbv
 RT: 17.28 min Scan# 2328
 Delta R.T. -0.15 min
 Lab File: VL025756.D
 Acq: 27 Jul 2015 16:51

Tgt Ion: 91 Resp: 27815
 Ion Ratio Lower Upper
 91 100
 126 40.0 12.2 49.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 1.37 ppbv

RT: 17.84 min Scan# 2420

Delta R.T. 0.02 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

A-221-B

Tot Ion:105 Resp: 593321

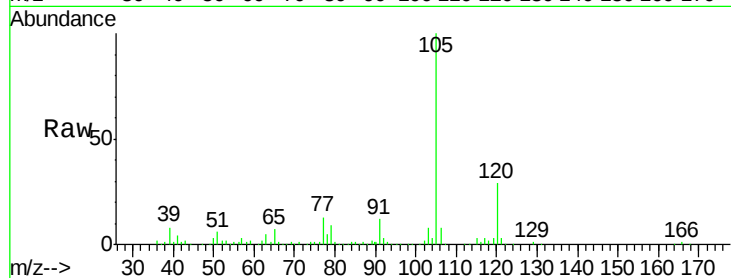
Ion Ratio Lower Upper

105 100

120 26.2 23.9 35.9

91 11.1 10.3 15.5

77 11.9 10.9 16.3

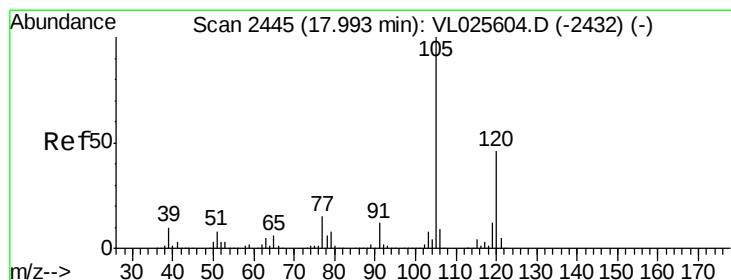
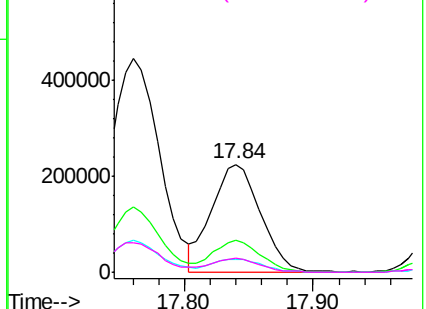
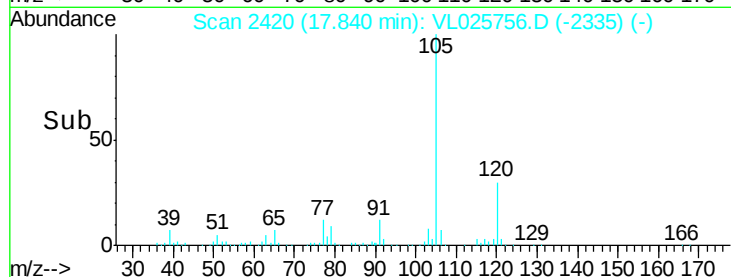


Abundance Ion 105.10 (104.80 to 105.80): V

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: 1.00 ppbv

RT: 18.00 min Scan# 2447

Delta R.T. 0.01 min

Lab File: VL025756.D

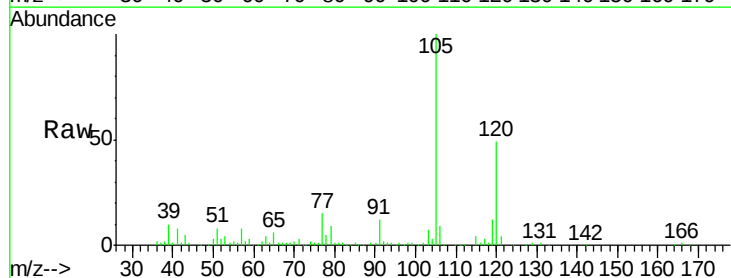
Acq: 27 Jul 2015 16:51

Tgt Ion:105 Resp: 422512

Ion Ratio Lower Upper

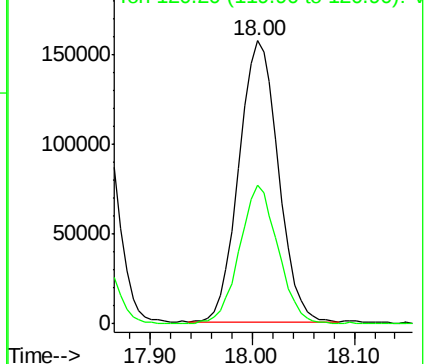
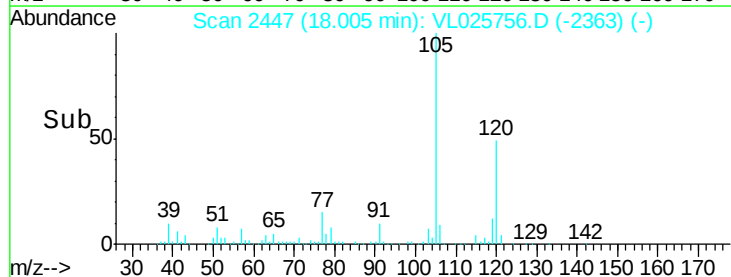
105 100

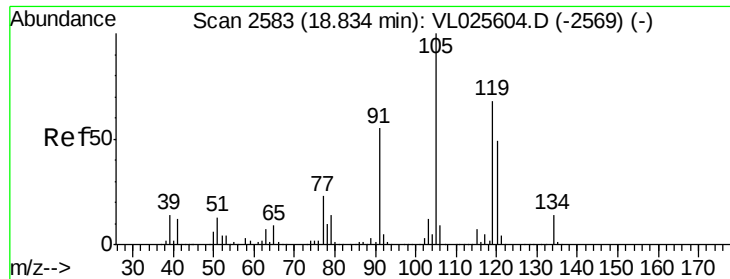
120 49.0 37.0 55.4



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: 3.06 ppbv

RT: 18.85 min Scan# 2585

Delta R.T. 0.01 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

A-221-B

Tot Ion:105 Resp: 1452693

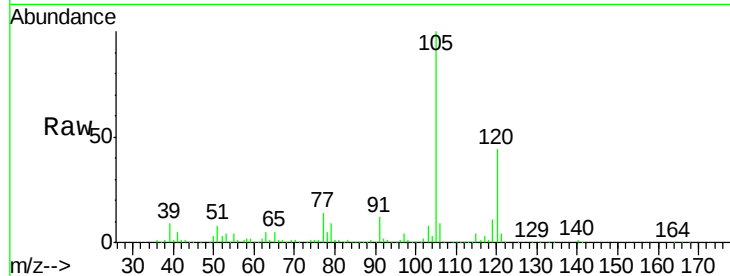
Ion Ratio Lower Upper

105 100

120 44.5 39.3 58.9

91 11.8 43.8 65.6#

77 14.3 18.3 27.5#

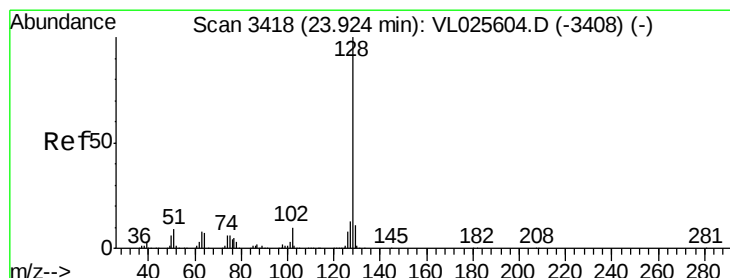
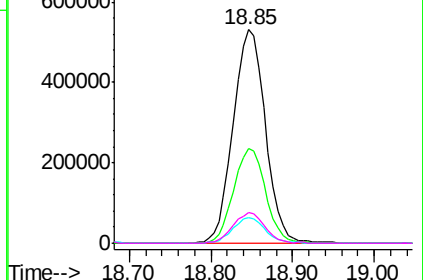
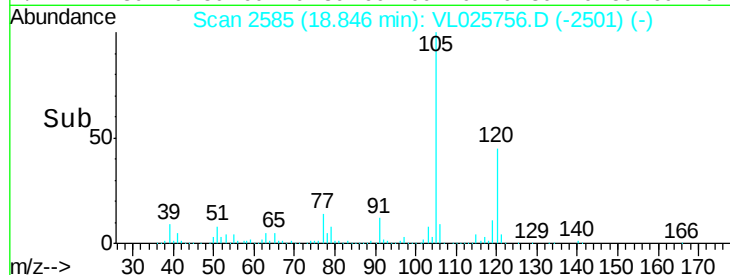


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.21 ppbv

RT: 23.94 min Scan# 3420

Delta R.T. 0.01 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

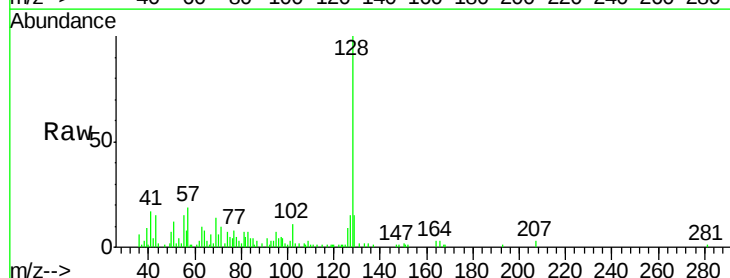
Tgt Ion:128 Resp: 98421

Ion Ratio Lower Upper

128 100

127 15.6 10.8 16.2

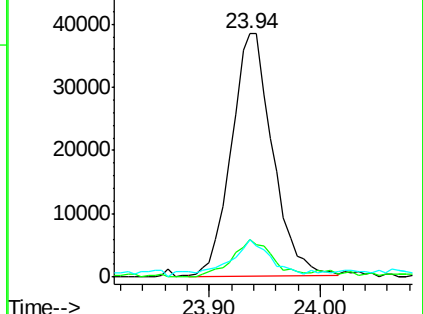
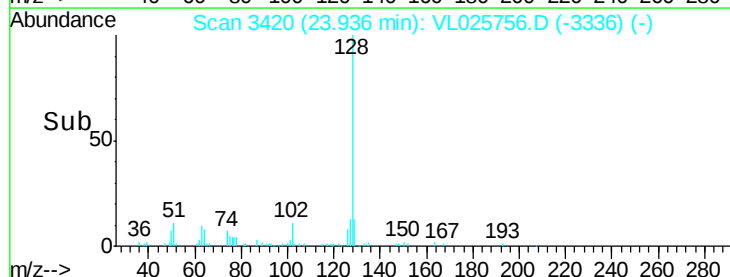
129 13.1 9.0 13.4

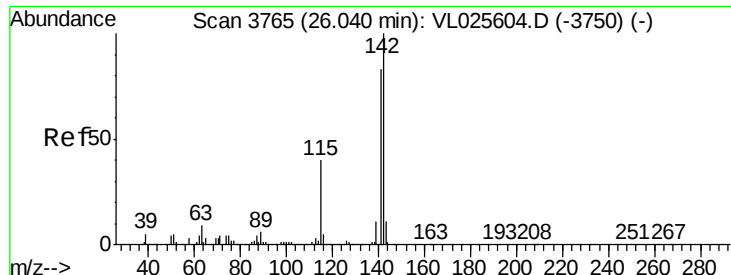


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene,2-methyl-

Concen: 0.04 ppbv

RT: 26.06 min Scan# 3768

Delta R.T. 0.02 min

Lab File: VL025756.D

Acq: 27 Jul 2015 16:51

Instrument :

MSVOA_L

ClientSampleId :

A-221-B

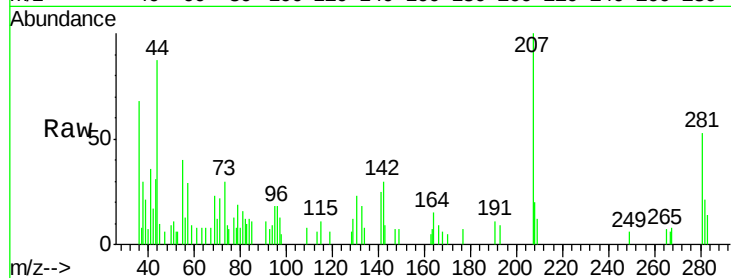
Tot Ion:142 Resp: 4738

Ion Ratio Lower Upper

142 100

141 104.6 67.1 100.7#

115 105.6 33.9 50.9#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

