

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026197.D
 Acq On : 10 Oct 2015 4:56
 Operator : SY/MD
 Sample : G3925-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 12 02:08:54 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 16:23:14 2015
 QLast Update : Fri Oct 09 16:23:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	389573	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.32	114	1275241	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.74	117	1378315	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.28	95	1101350	10.41	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

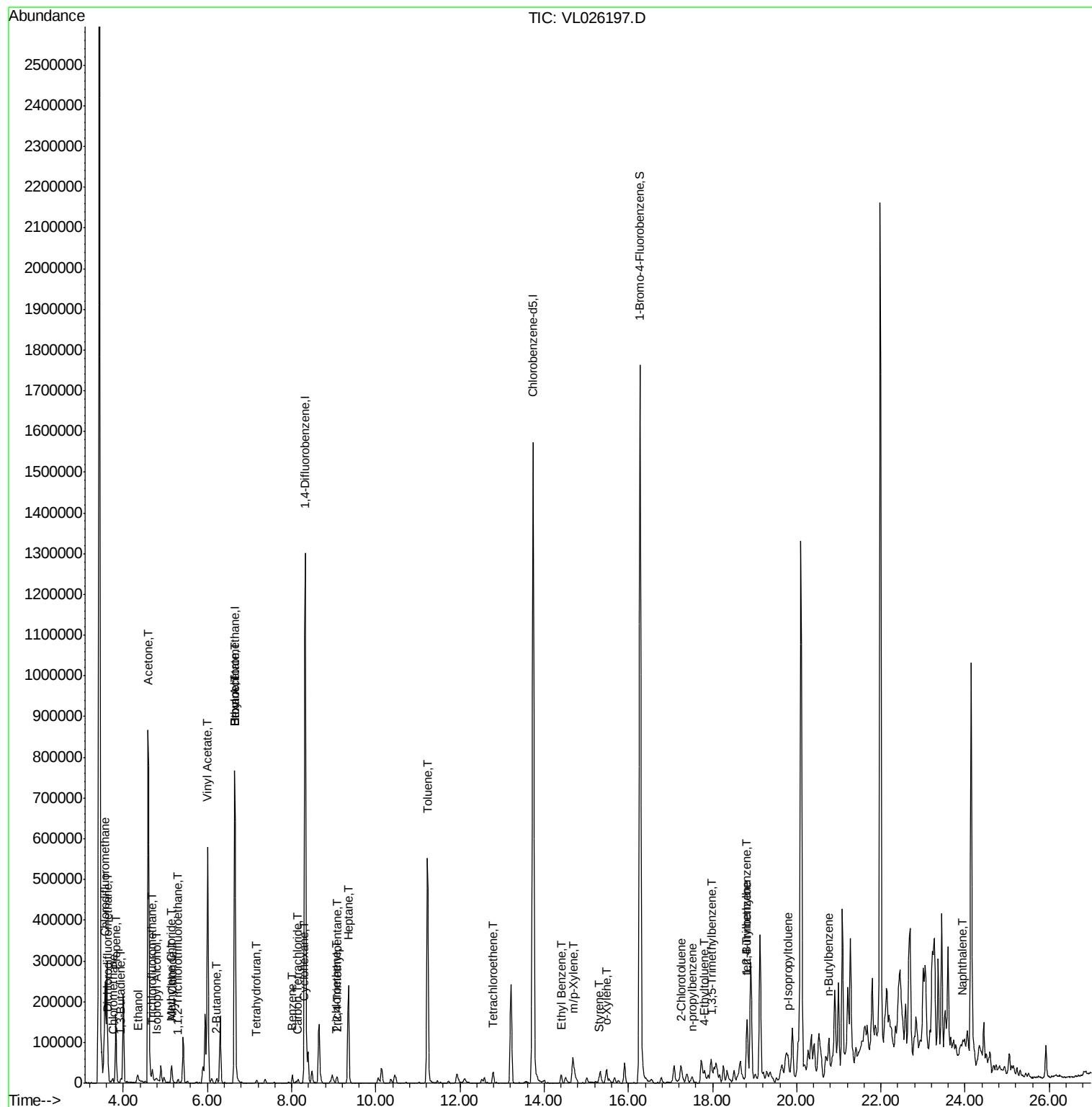
Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	37218	0.51	ppbv	91
3) Chlorodifluoromethane	3.57	51	371305	8.16	ppbv	94
4) Chloromethane	3.75	50	11495	0.45	ppbv	96
9) Propene	3.82	41	62570	3.00	ppbv	97
10) Heptane	9.35	43	117830	1.62	ppbv	99
11) Trichlorofluoromethane	4.69	101	22249	0.31	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	5.30	101	4241	0.09	ppbv	89
13) Ethanol	4.34	45	33159	10.79	ppbv	87
15) Acetone	4.59	43	1182614	23.49	ppbv	97
16) 1,3-Butadiene	3.95	39	3960	0.17	ppbv #	62
19) Isopropyl Alcohol	4.79	45	17394	0.89	ppbv #	94
20) Methylene Chloride	5.15	84	20141	0.94	ppbv	93
21) Allyl Chloride	5.16	41	1704	0.05	ppbv #	58
23) Vinyl Acetate	6.01	43	363475	4.08	ppbv #	49
25) Ethyl Acetate	6.65	43	22681	0.23	ppbv #	79
26) Hexane	6.65	57	24449	0.52	ppbv #	55
30) Cyclohexane	8.28	84	1880	0.04	ppbv #	12
34) 2-Butanone	6.21	43	17039	0.24	ppbv	97
35) Carbon Tetrachloride	8.16	117	6811	0.08	ppbv	96
36) Benzene	8.02	78	19557	0.16	ppbv	98
38) Trichloroethene	9.06	130	2244	0.04	ppbv #	74
41) Tetrahydrofuran	7.16	42	4641	0.12	ppbv	91
44) 2,2,4-Trimethylpentane	9.08	57	7921	0.04	ppbv #	29
52) Tetrachloroethene	12.79	164	9216	0.15	ppbv	93
53) Toluene	11.23	91	572724	3.64	ppbv	100
58) Ethyl Benzene	14.41	91	27045	0.14	ppbv	96
59) m/p-Xylene	14.68	91	81752	0.51	ppbv	97
60) o-Xylene	15.48	91	33972	0.20	ppbv	96
61) Styrene	15.30	104	3783	0.05	ppbv	97
64) n-propylbenzene	17.50	120	2187	0.04	ppbv #	1
65) tert-Butylbenzene	18.82	119	13050	0.07	ppbv #	73
69) p-Isopropyltoluene	19.78	119	13900	0.06	ppbv #	63
70) n-Butylbenzene	20.75	91	16648	0.08	ppbv #	45
71) 2-Chlorotoluene	17.25	91	8405	0.05	ppbv	99
72) 4-Ethyltoluene	17.81	105	30523	0.17	ppbv	97
73) 1,3,5-Trimethylbenzene	17.97	105	30918	0.18	ppbv	93
74) 1,2,4-Trimethylbenzene	18.82	105	107174	0.61	ppbv #	69
79) Naphthalene	23.94	128	17087	0.15	ppbv #	96

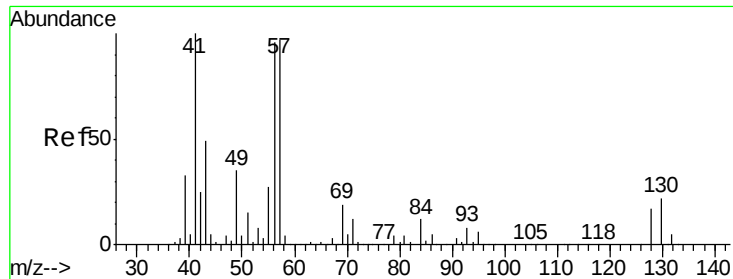
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 16:23:14 2015
QLast Update : Fri Oct 09 16:23:14 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 584

Delta R.T. -0.01 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

ClientSampleId :

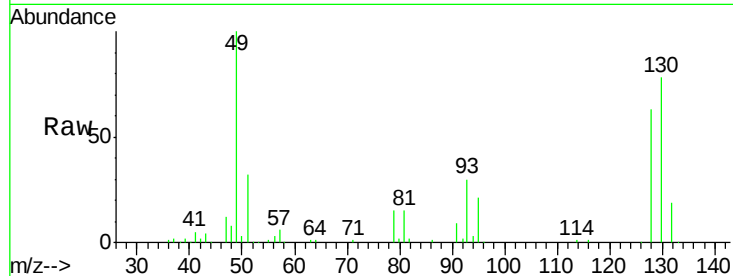
Tot Ion: 49 Resp: 389573

Ion Ratio Lower Upper

49 100

128 63.0 26.3 78.8

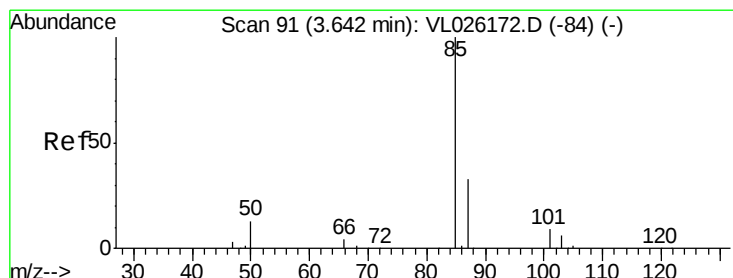
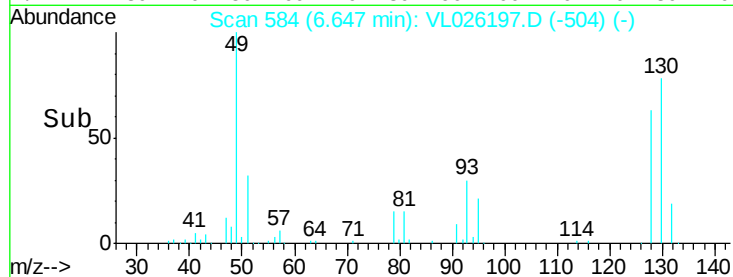
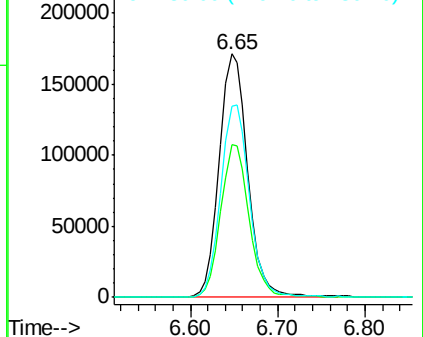
130 80.0 34.2 102.5



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: 0.51 ppbv

RT: 3.64 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL026197.D

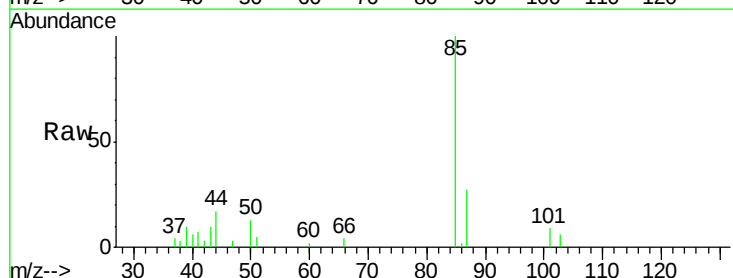
Acq: 10 Oct 2015 4:56

Tgt Ion: 85 Resp: 37218

Ion Ratio Lower Upper

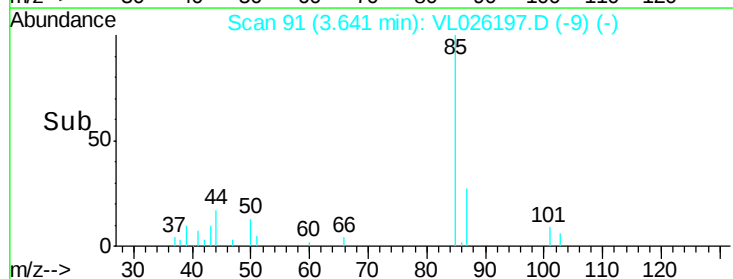
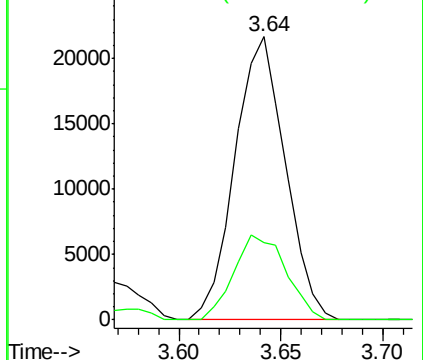
85 100

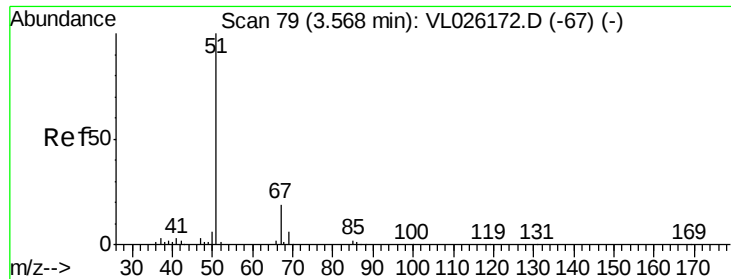
87 27.5 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.16 ppbv

RT: 3.57 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

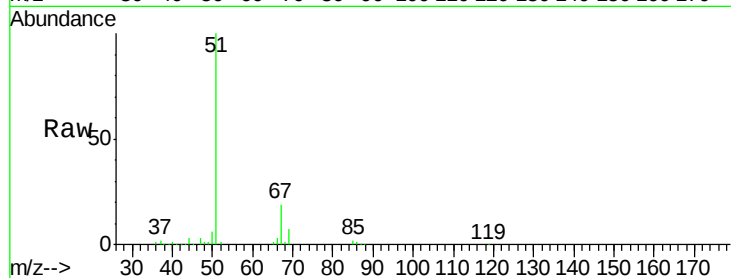
ClientSampleId :

Tot Ion: 51 Resp: 371305

Ion Ratio Lower Upper

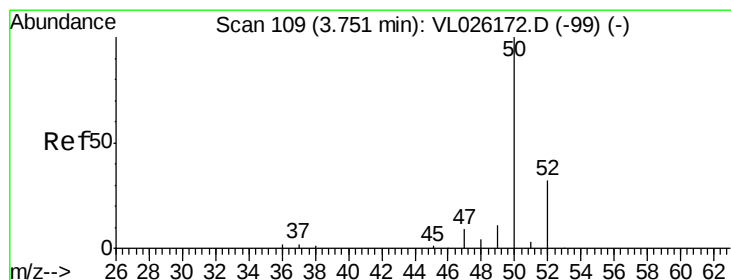
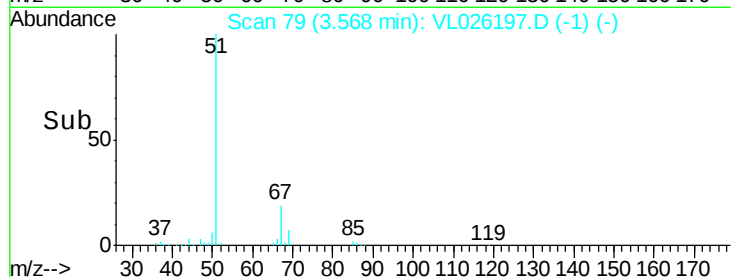
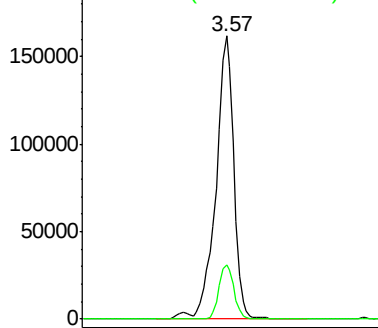
51 100

67 15.9 14.9 22.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.45 ppbv

RT: 3.75 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL026197.D

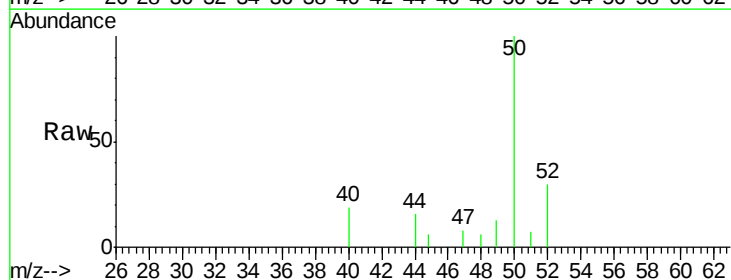
Acq: 10 Oct 2015 4:56

Tgt Ion: 50 Resp: 11495

Ion Ratio Lower Upper

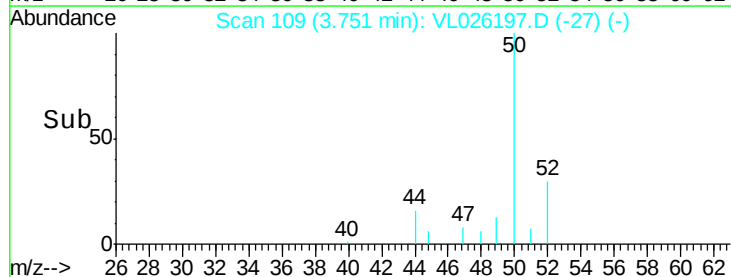
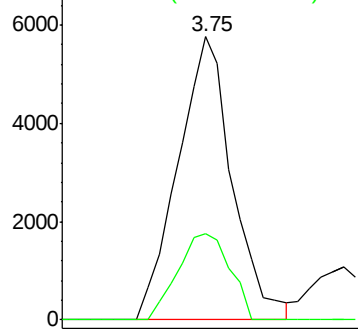
50 100

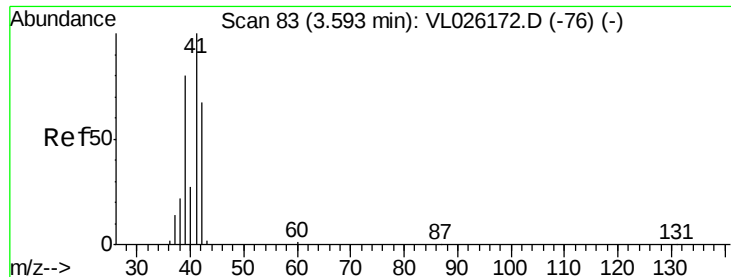
52 30.4 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 3.00 ppbv

RT: 3.82 min Scan# 121

Delta R.T. 0.23 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

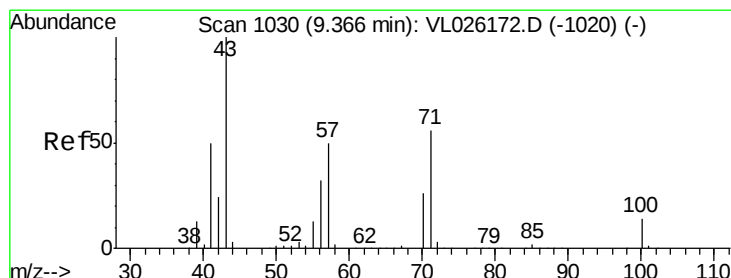
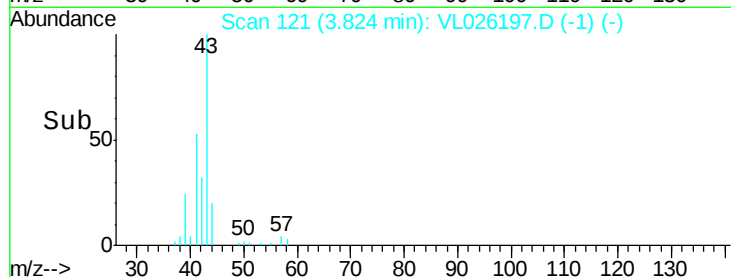
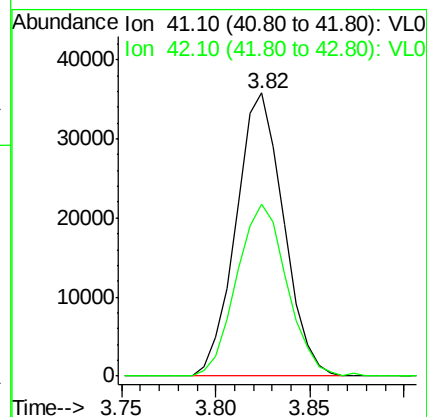
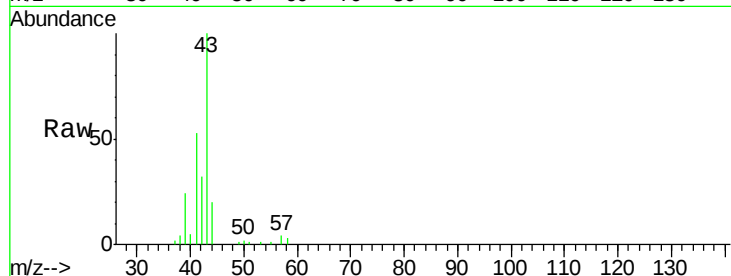
ClientSampleId :

Tot Ion: 41 Resp: 62570

Ion Ratio Lower Upper

41 100

42 64.3 53.6 80.4



#10

Heptane

Concen: 1.62 ppbv

RT: 9.35 min Scan# 1027

Delta R.T. -0.02 min

Lab File: VL026197.D

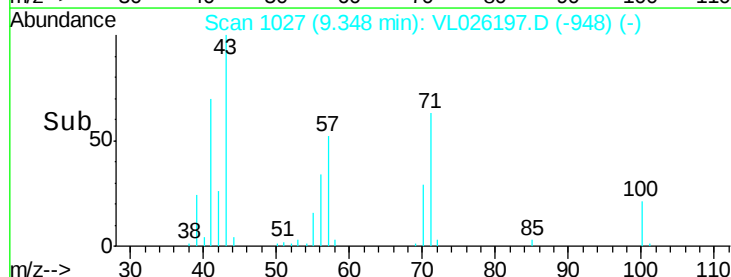
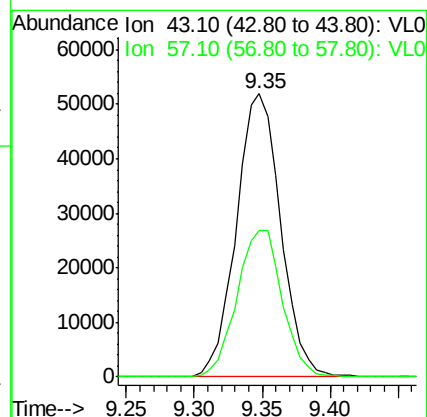
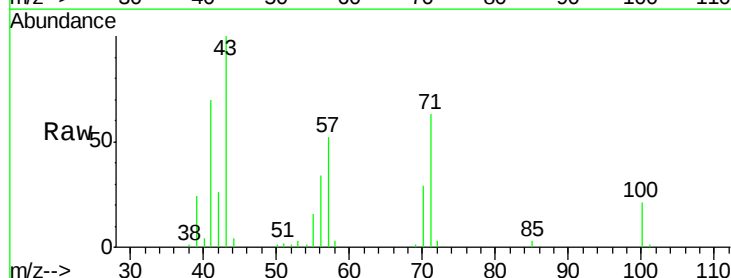
Acq: 10 Oct 2015 4:56

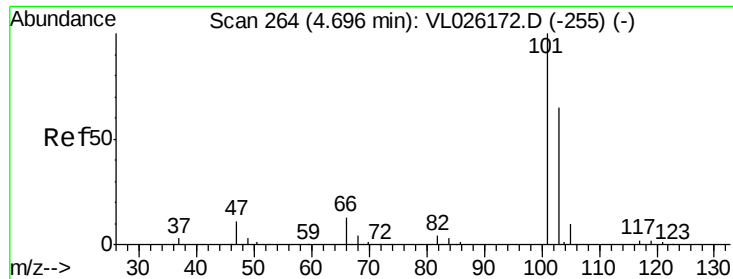
Tgt Ion: 43 Resp: 117830

Ion Ratio Lower Upper

43 100

57 53.1 41.8 62.8





#11

Trichlorofluoromethane

Concen: 0.31 ppbv

RT: 4.69 min Scan# 263

Delta R.T. -0.01 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

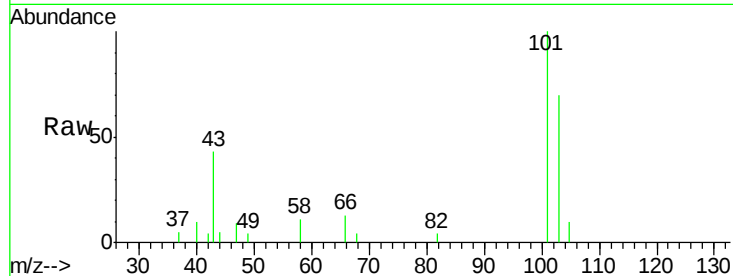
ClientSampleId :

Tot Ion:101 Resp: 22249

Ion Ratio Lower Upper

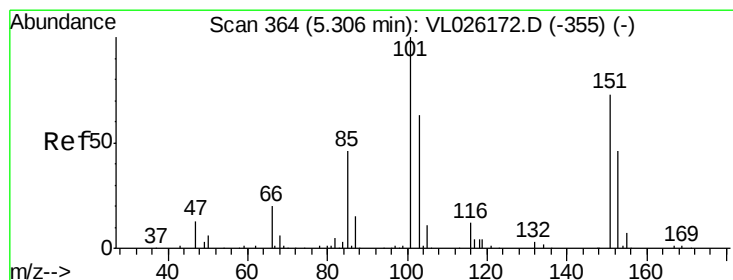
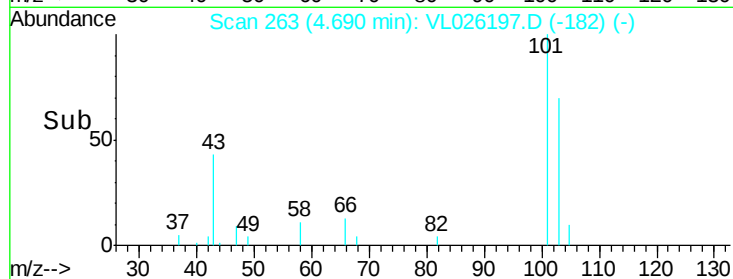
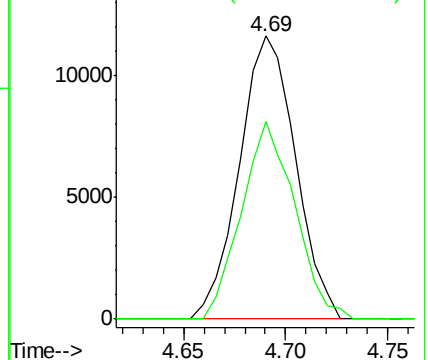
101 100

103 69.7 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.09 ppbv

RT: 5.30 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL026197.D

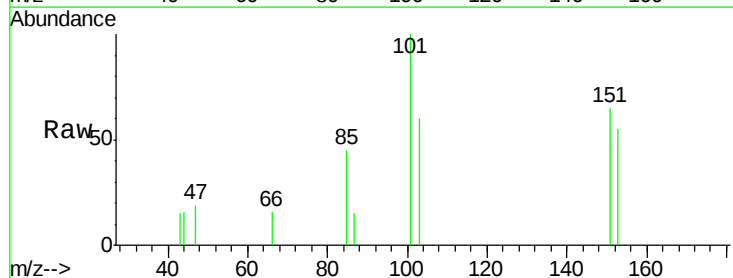
Acq: 10 Oct 2015 4:56

Tgt Ion:101 Resp: 4241

Ion Ratio Lower Upper

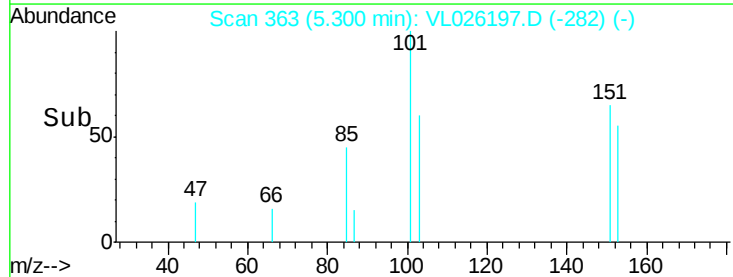
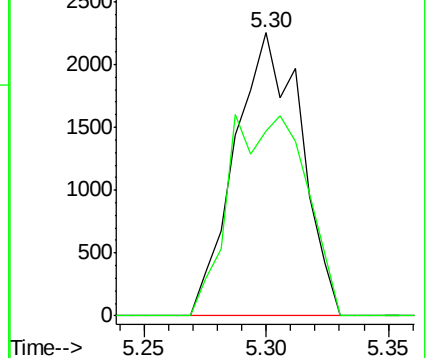
101 100

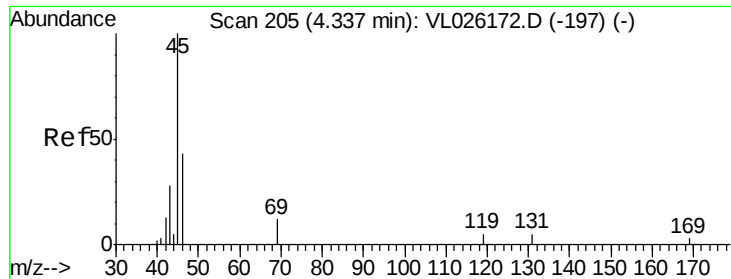
151 83.0 59.0 88.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 10.79 ppbv

RT: 4.34 min Scan# 206

Delta R.T. 0.01 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

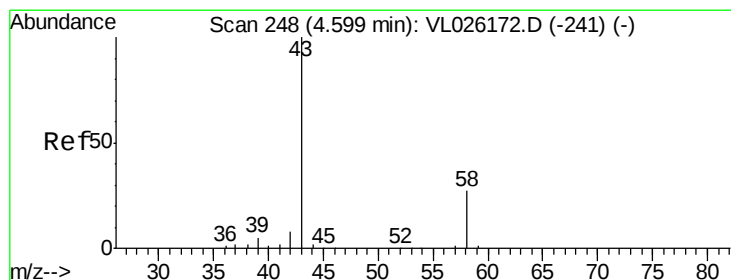
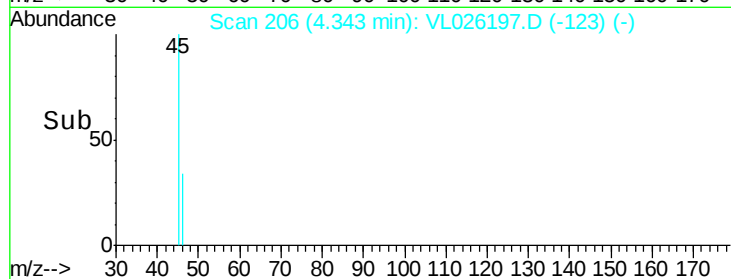
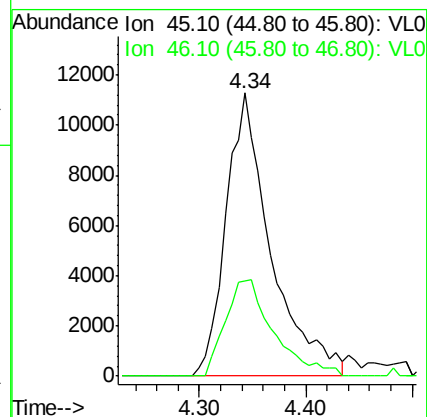
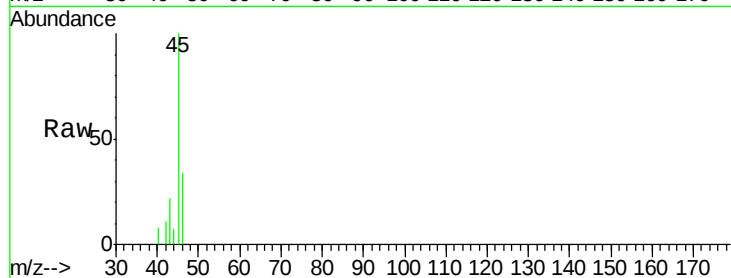
ClientSampleId :

Tot Ion: 45 Resp: 33159

Ion Ratio Lower Upper

45 100

46 36.8 18.1 72.5



#15

Acetone

Concen: 23.49 ppbv

RT: 4.59 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL026197.D

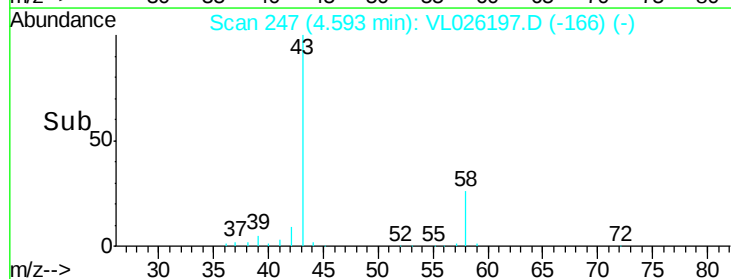
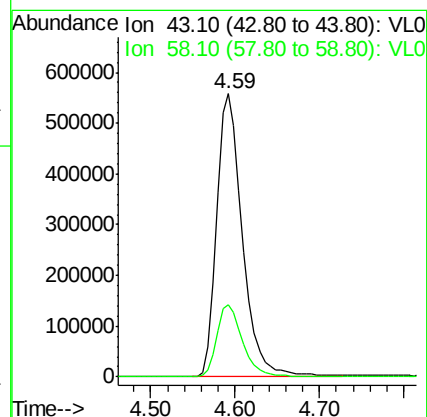
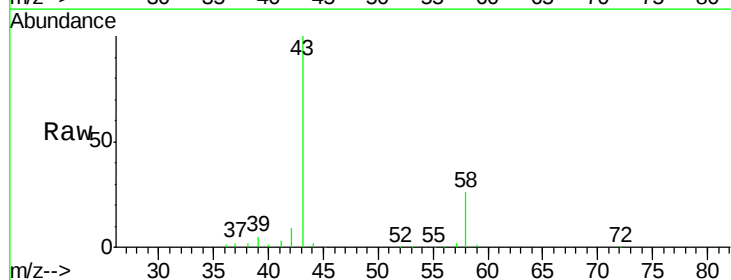
Acq: 10 Oct 2015 4:56

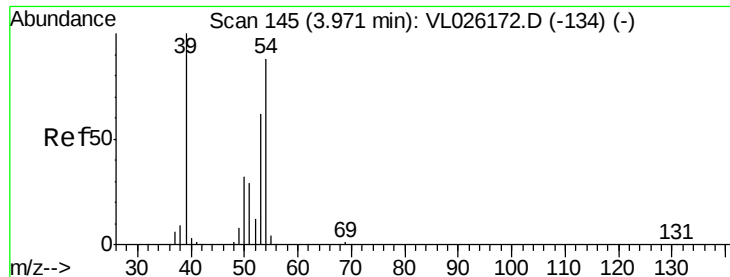
Tgt Ion: 43 Resp: 1182614

Ion Ratio Lower Upper

43 100

58 26.2 22.0 33.0





#16

1,3-Butadiene

Concen: 0.17 ppbv

RT: 3.95 min Scan# 141

Delta R.T. -0.02 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

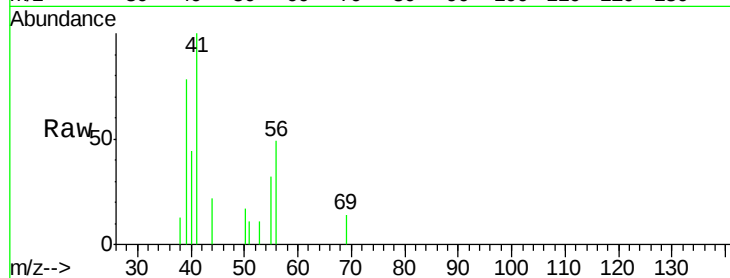
ClientSampleId :

Tot Ion: 39 Resp: 3960

Ion Ratio Lower Upper

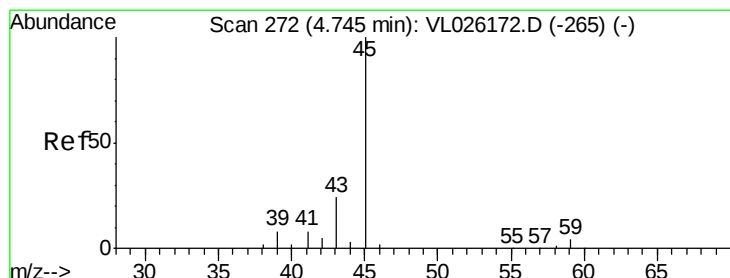
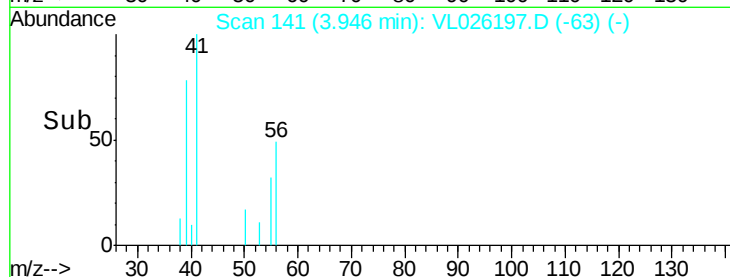
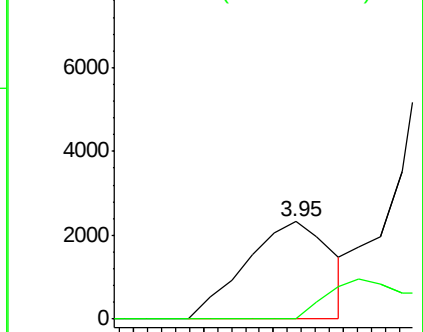
39 100

54 50.0 67.9 101.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#19

Isopropyl Alcohol

Concen: 0.89 ppbv

RT: 4.79 min Scan# 280

Delta R.T. 0.05 min

Lab File: VL026197.D

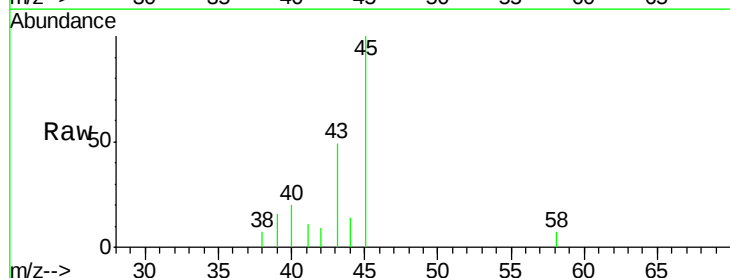
Acq: 10 Oct 2015 4:56

Tgt Ion: 45 Resp: 17394

Ion Ratio Lower Upper

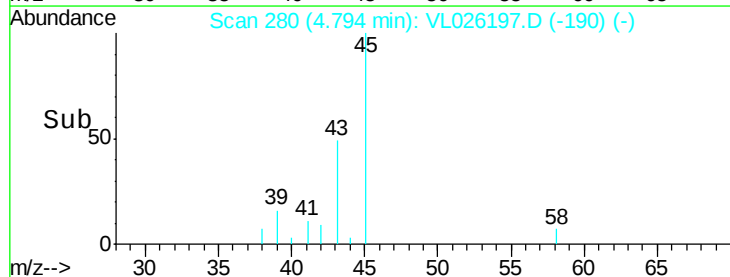
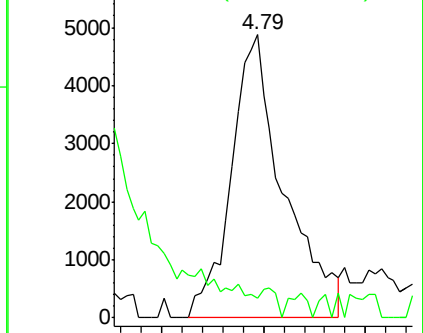
45 100

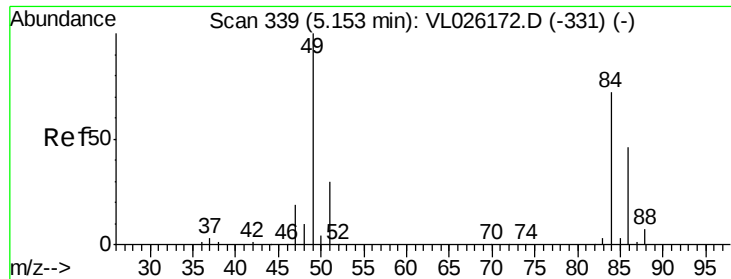
58 0.0 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

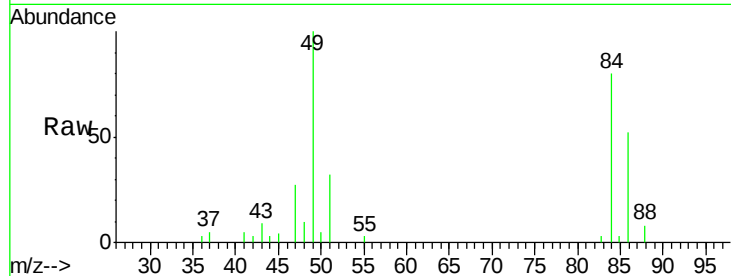




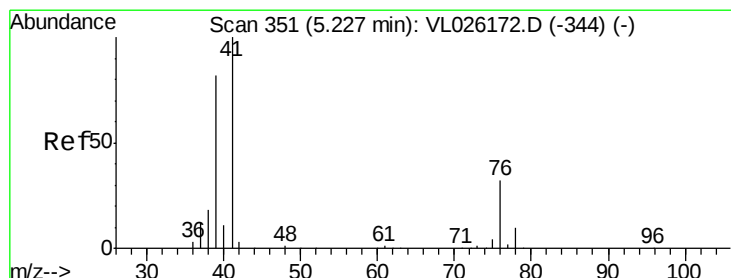
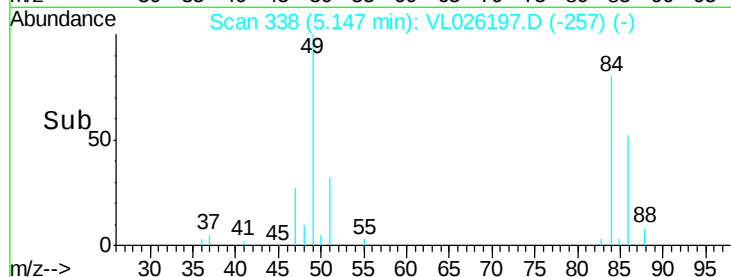
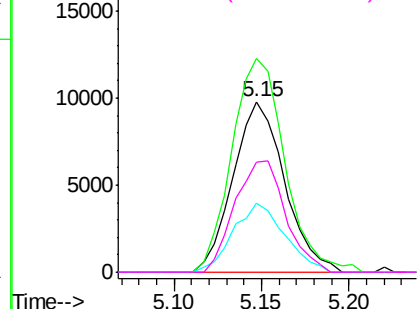
#20
Methylene Chloride
Concen: 0.94 ppbv
RT: 5.15 min Scan# 338
Delta R.T. -0.01 min
Lab File: VL026197.D
Acq: 10 Oct 2015 4:56

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 20141
Ion Ratio Lower Upper
84 100
49 125.3 111.3 166.9
51 40.6 33.0 49.6
86 64.9 51.6 77.4

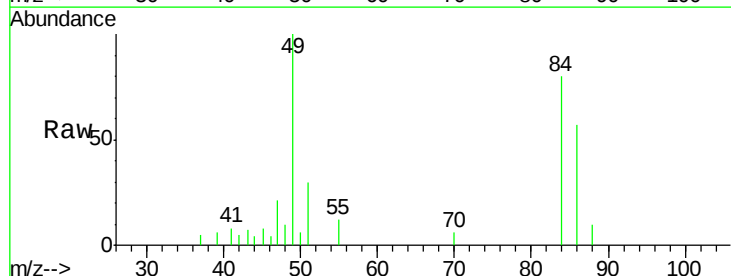


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

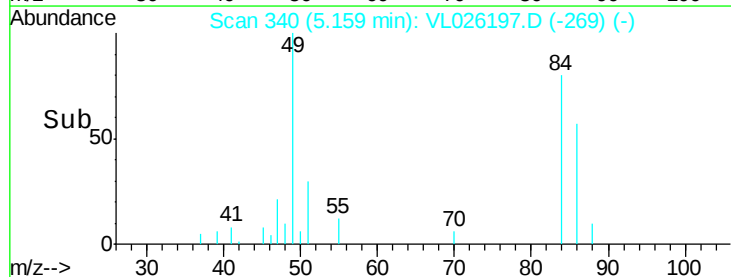
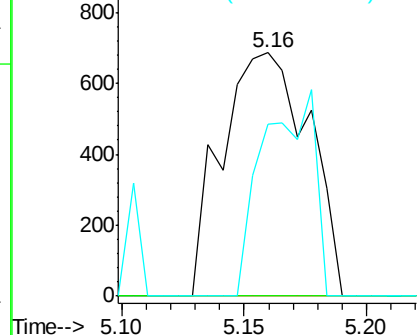


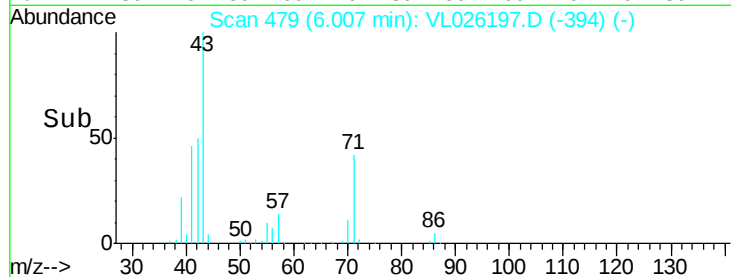
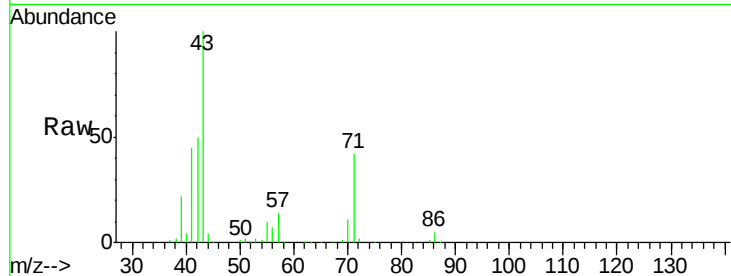
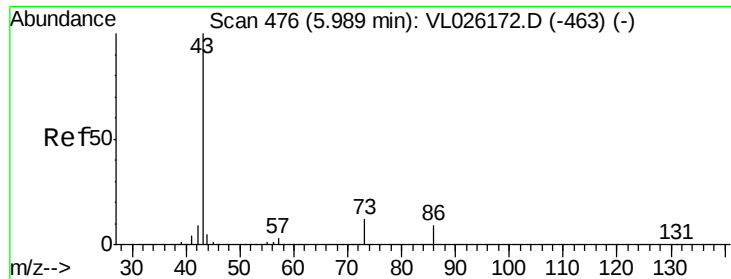
#21
Allyl Chloride
Concen: 0.05 ppbv
RT: 5.16 min Scan# 340
Delta R.T. -0.07 min
Lab File: VL026197.D
Acq: 10 Oct 2015 4:56

Tgt Ion: 41 Resp: 1704
Ion Ratio Lower Upper
41 100
76 0.0 25.4 38.2#
39 50.2 66.5 99.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 4.08 ppbv

RT: 6.01 min Scan# 479

Delta R.T. 0.02 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Tot Ion: 43 Resp: 363475

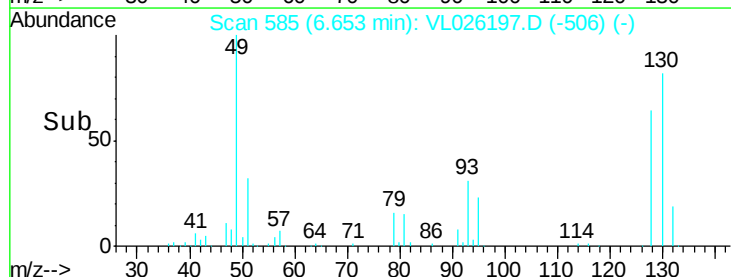
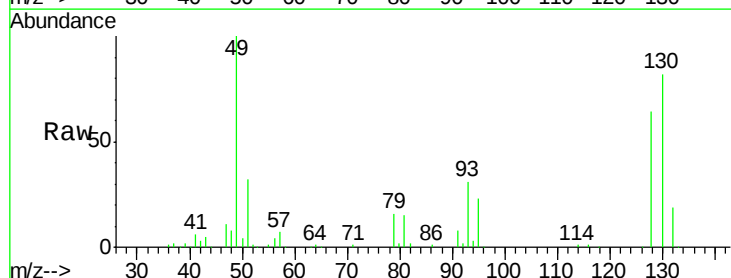
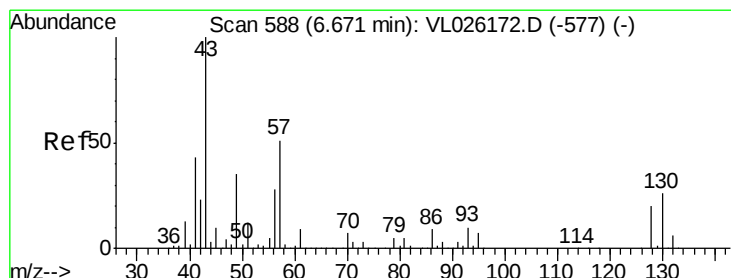
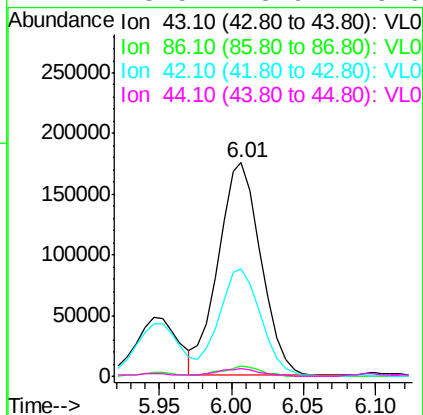
Ion Ratio Lower Upper

43 100

86 4.7 7.2 10.8#

42 50.3 7.4 11.2#

44 3.5 3.9 5.9#



#25

Ethyl Acetate

Concen: 0.23 ppbv

RT: 6.65 min Scan# 585

Delta R.T. -0.02 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Tgt Ion: 43 Resp: 22681

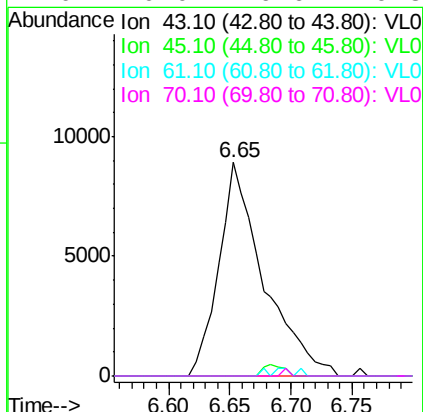
Ion Ratio Lower Upper

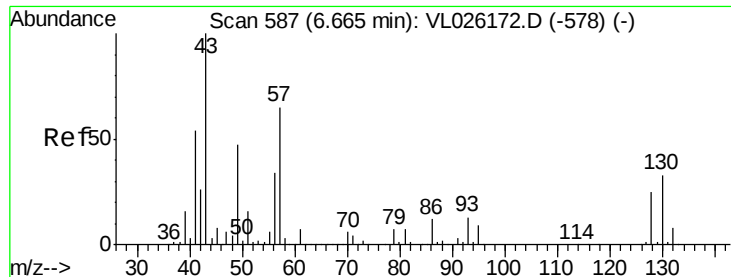
43 100

45 2.5 7.7 11.5#

61 2.1 7.4 11.2#

70 0.0 6.6 9.8#





#26

Hexane

Concen: 0.52 ppbv

RT: 6.65 min Scan# 585

Delta R.T. -0.01 min

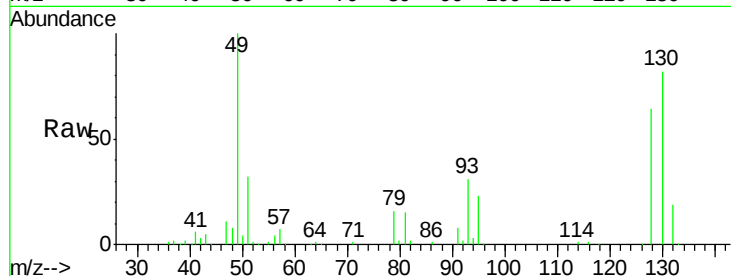
Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 24449

Ion	Ratio	Lower	Upper
57	100		
41	89.1	68.0	102.0
43	93.3	164.4	246.6#
56	56.3	42.7	64.1

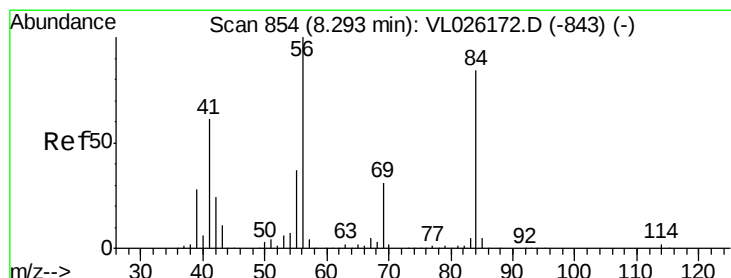
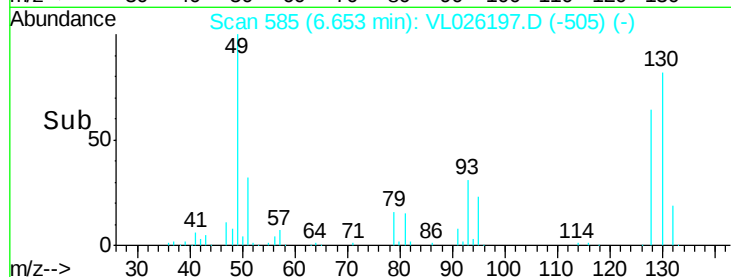
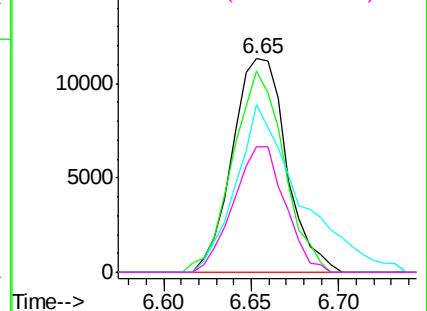


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.04 ppbv

RT: 8.28 min Scan# 852

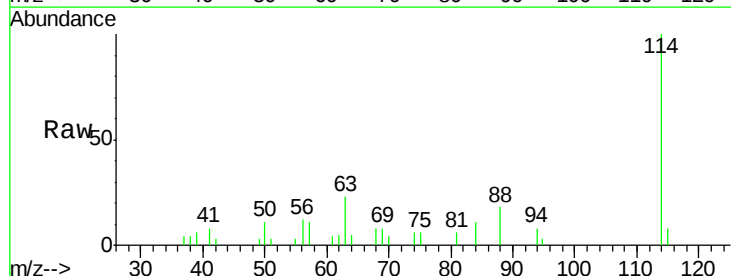
Delta R.T. -0.01 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Tgt Ion: 84 Resp: 1880

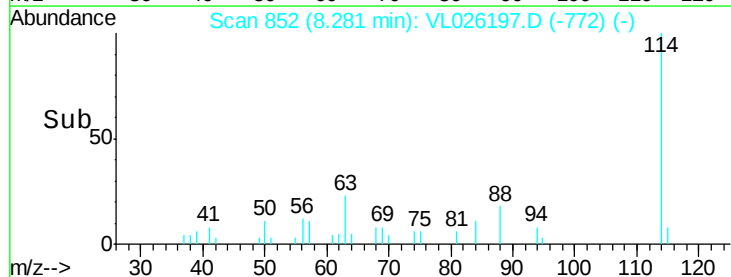
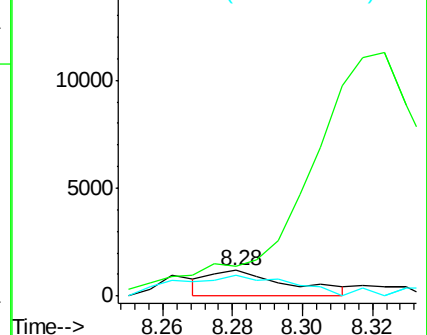
Ion	Ratio	Lower	Upper
84	100		
56	0.0	99.8	149.8#
41	115.0	58.1	87.1#

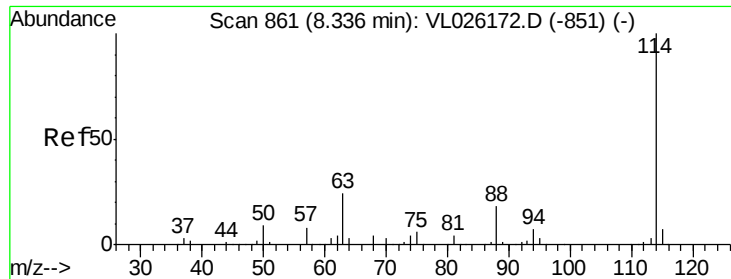


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

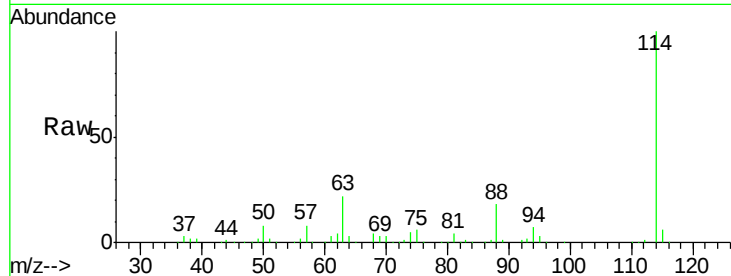




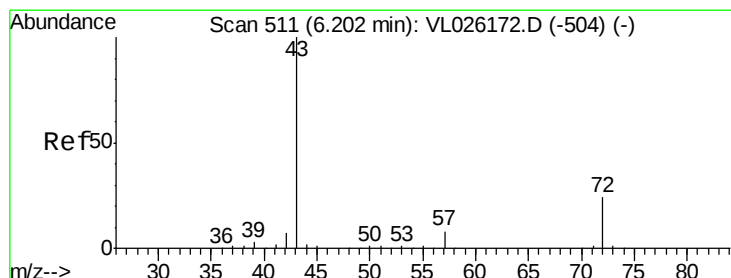
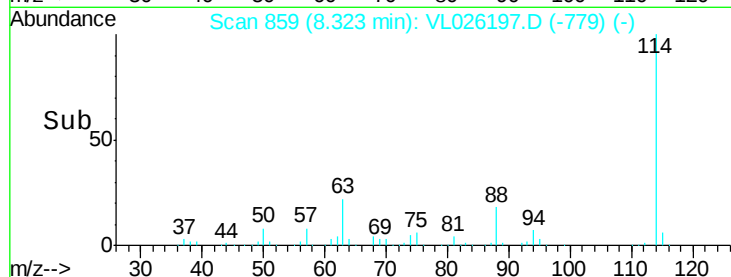
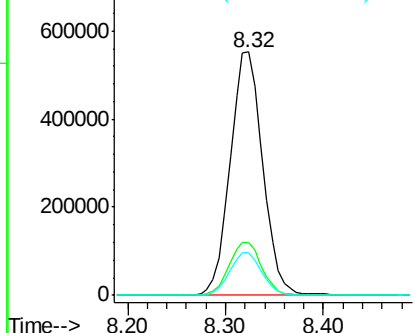
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.32 min Scan# 859
 Delta R.T. -0.01 min
 Lab File: VL026197.D
 Acq: 10 Oct 2015 4:56

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 1275241
 Ion Ratio Lower Upper
 114 100
 63 22.1 19.0 28.6
 88 17.5 13.8 20.8

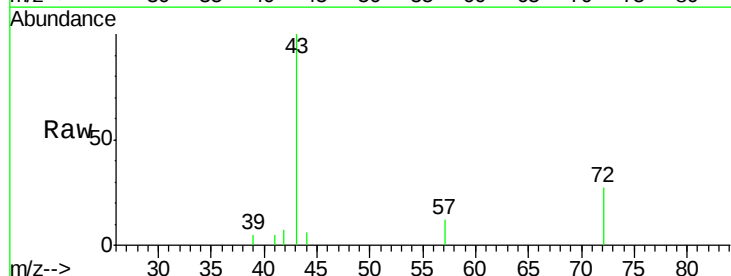


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

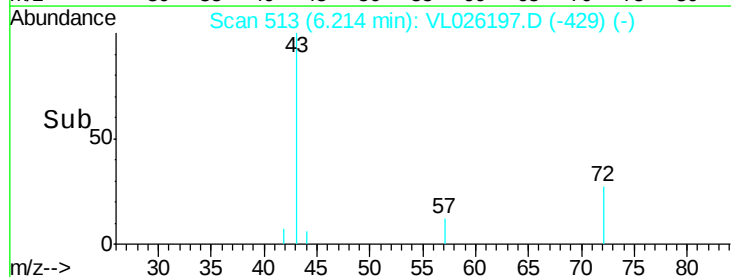
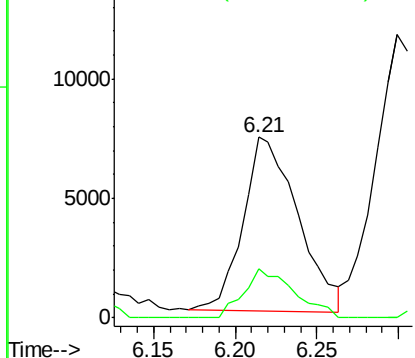


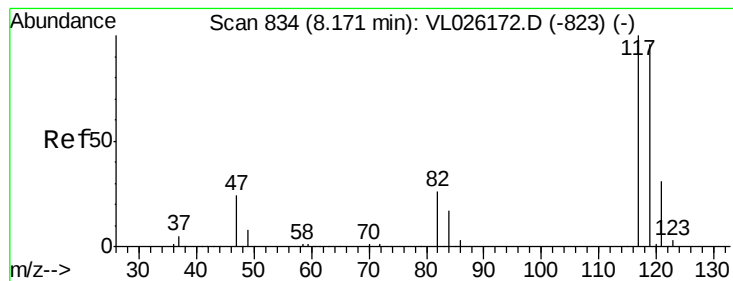
#34
 2-Butanone
 Concen: 0.24 ppbv
 RT: 6.21 min Scan# 513
 Delta R.T. 0.01 min
 Lab File: VL026197.D
 Acq: 10 Oct 2015 4:56

Tgt Ion: 43 Resp: 17039
 Ion Ratio Lower Upper
 43 100
 72 25.8 19.6 29.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.08 ppbv

RT: 8.16 min Scan# 832

Delta R.T. -0.01 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

ClientSampleId :

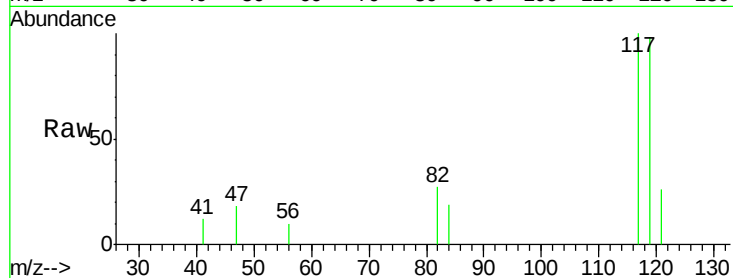
Tot Ion:117 Resp: 6811

Ion Ratio Lower Upper

117 100

119 97.9 76.6 115.0

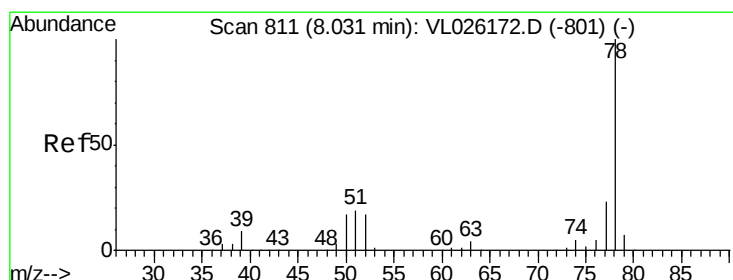
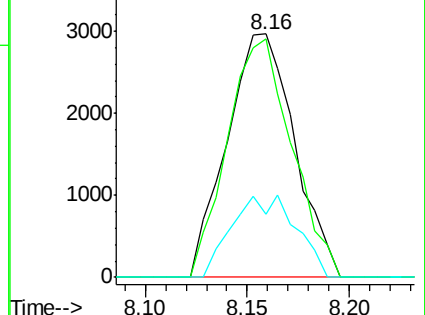
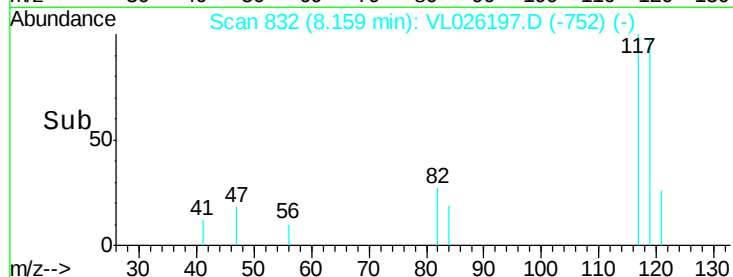
121 26.1 25.0 37.4



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: 0.16 ppbv

RT: 8.02 min Scan# 809

Delta R.T. -0.01 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

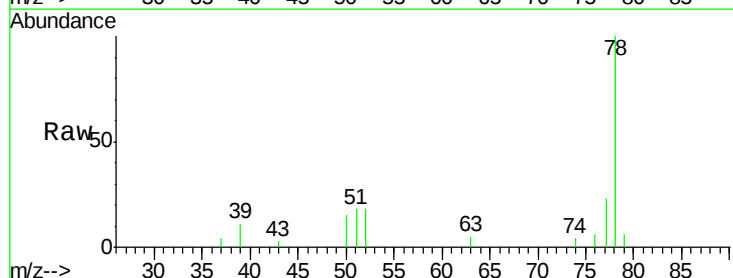
Tgt Ion: 78 Resp: 19557

Ion Ratio Lower Upper

78 100

77 22.6 18.2 27.4

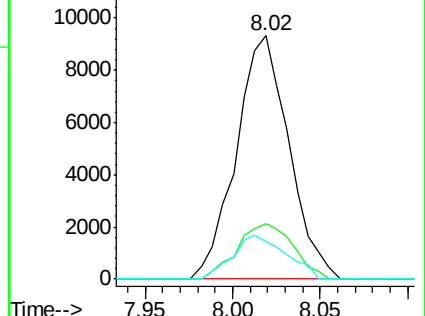
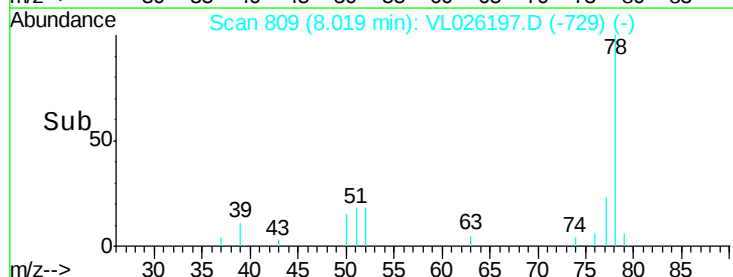
50 15.3 13.4 20.2

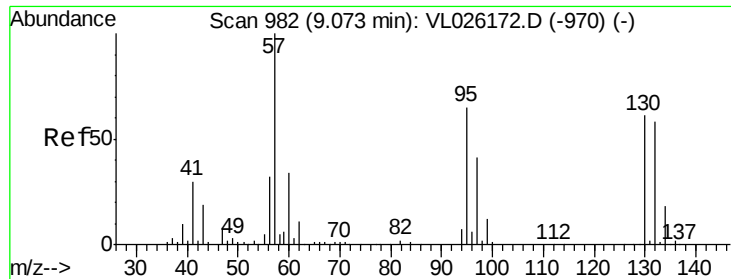


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 0.04 ppbv

RT: 9.06 min Scan# 980

Delta R.T. -0.01 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:130 Resp: 2244

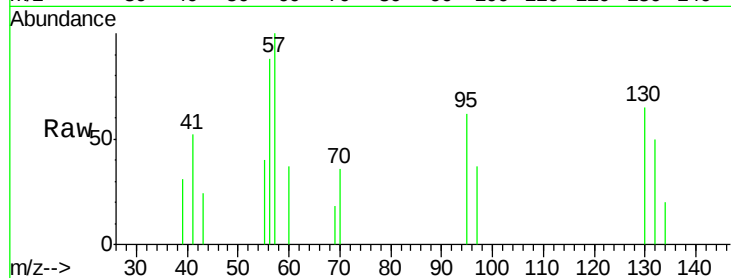
Ion Ratio Lower Upper

130 100

95 65.7 84.9 127.3#

132 77.1 76.8 115.2

97 55.9 54.1 81.1

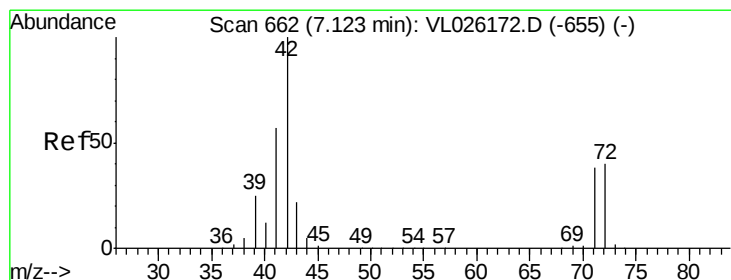
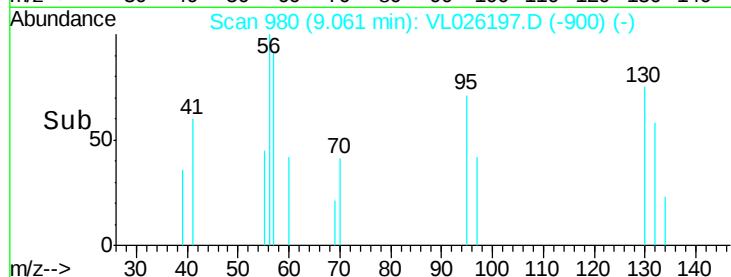
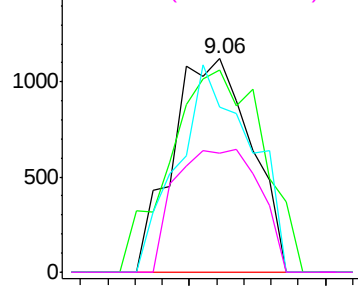


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.12 ppbv

RT: 7.16 min Scan# 668

Delta R.T. 0.04 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

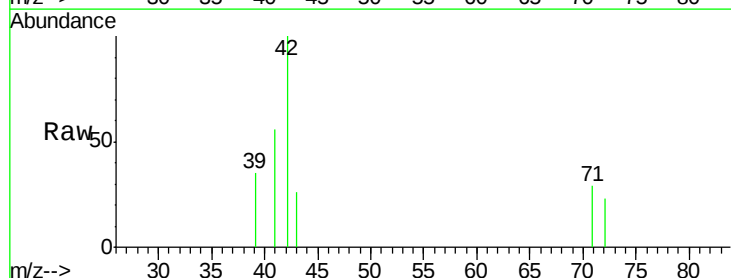
Tgt Ion: 42 Resp: 4641

Ion Ratio Lower Upper

42 100

72 35.6 32.4 48.6

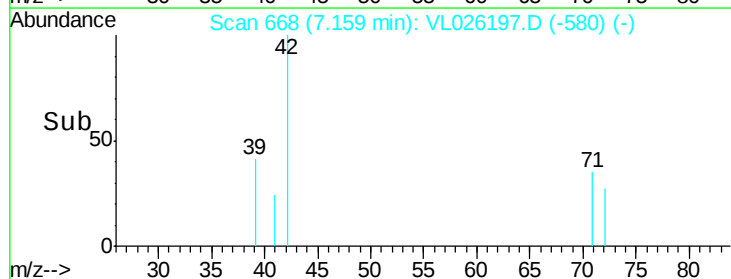
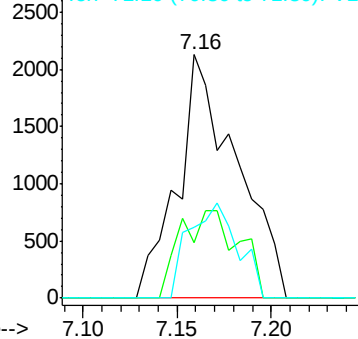
71 32.2 30.2 45.4

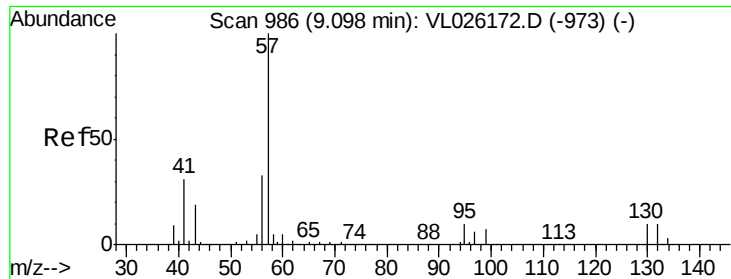


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.04 ppbv

RT: 9.08 min Scan# 983

Delta R.T. -0.02 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

ClientSampleId :

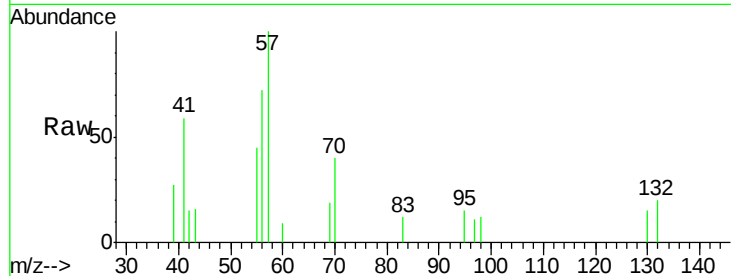
Tot Ion: 57 Resp: 7921

Ion Ratio Lower Upper

57 100

41 69.3 23.7 35.5#

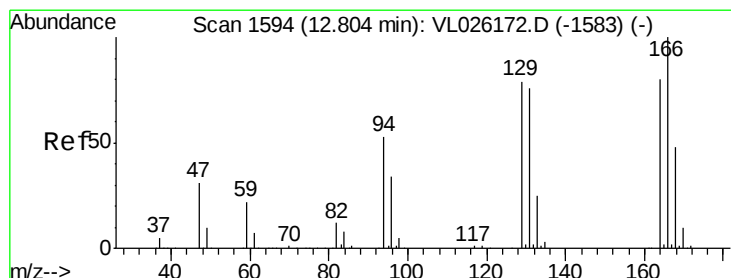
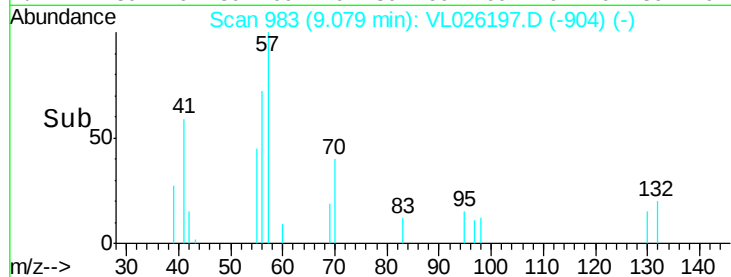
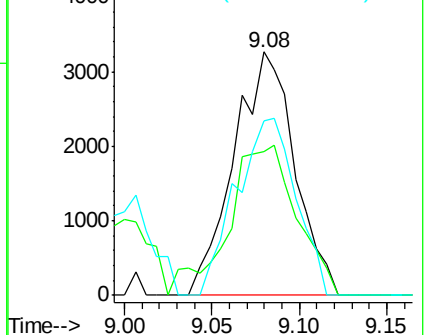
56 71.4 26.4 39.6#



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



#52

Tetrachloroethene

Concen: 0.15 ppbv

RT: 12.79 min Scan# 1591

Delta R.T. -0.02 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Tgt Ion:164 Resp: 9216

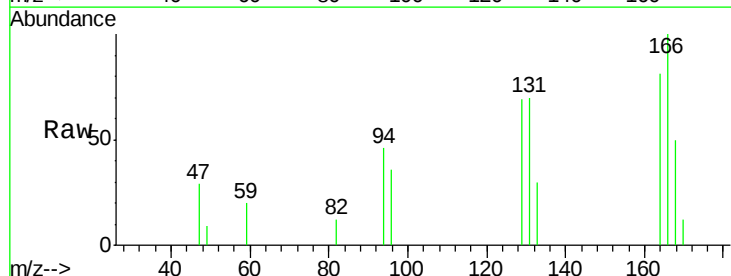
Ion Ratio Lower Upper

164 100

166 123.8 99.9 149.9

129 84.9 79.1 118.7

131 86.9 76.3 114.5

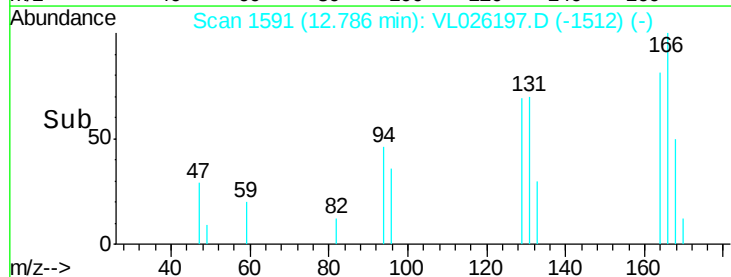
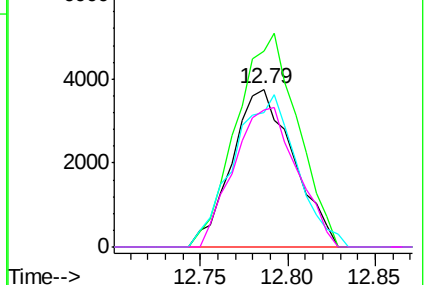


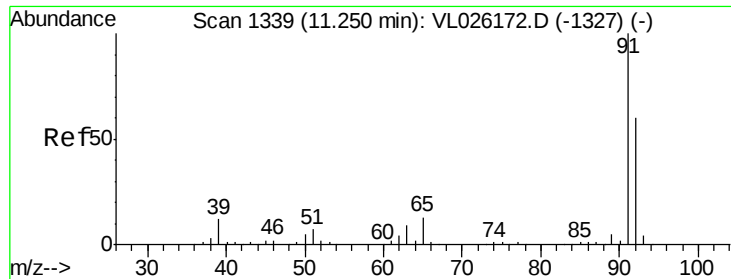
Abundance Ion 163.90 (163.60 to 164.60): V

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: 3.64 ppbv

RT: 11.23 min Scan# 1335

Delta R.T. -0.02 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

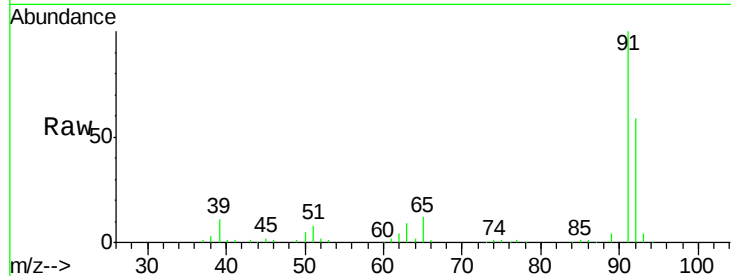
ClientSampled :

Tot Ion: 91 Resp: 572724

Ion Ratio Lower Upper

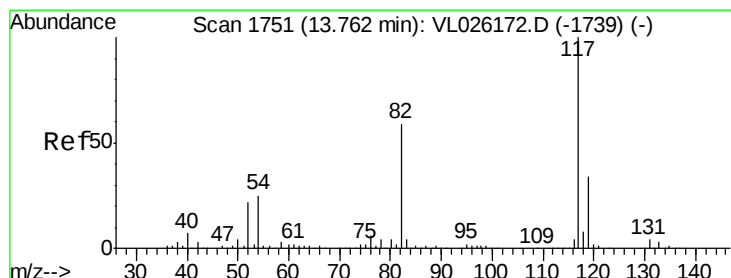
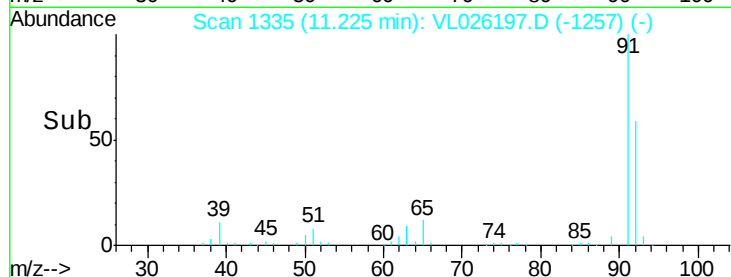
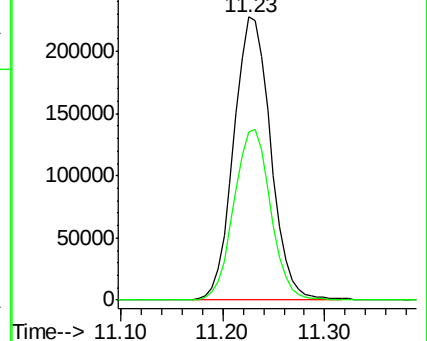
91 100

92 60.2 48.5 72.7



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. -0.02 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

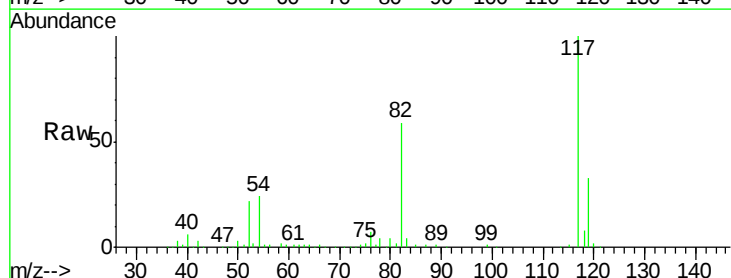
Tgt Ion: 117 Resp: 1378315

Ion Ratio Lower Upper

117 100

82 59.6 47.7 71.5

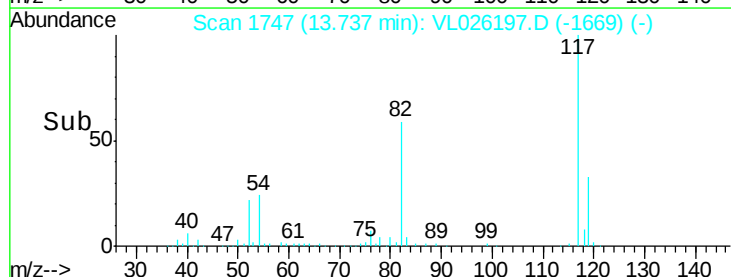
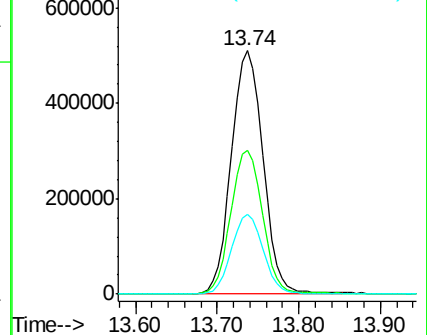
119 33.0 43.7 65.5#

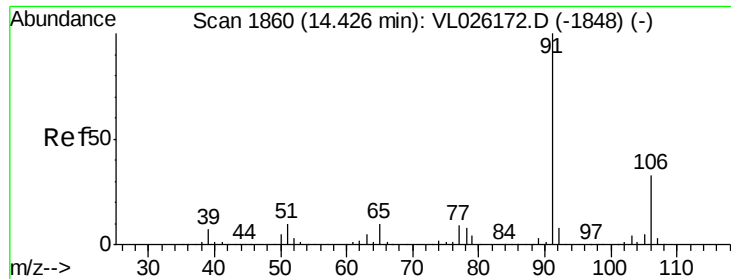


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.14 ppbv

RT: 14.41 min Scan# 1857

Delta R.T. -0.02 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

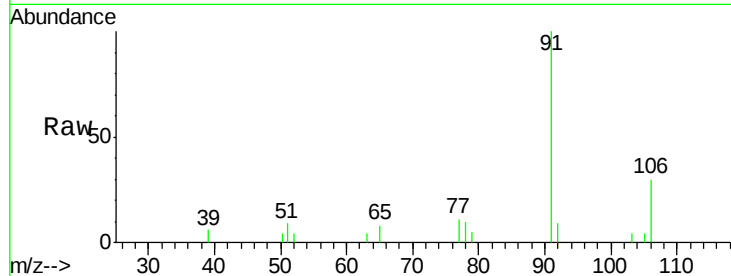
ClientSampleId :

Tot Ion: 91 Resp: 27045

Ion Ratio Lower Upper

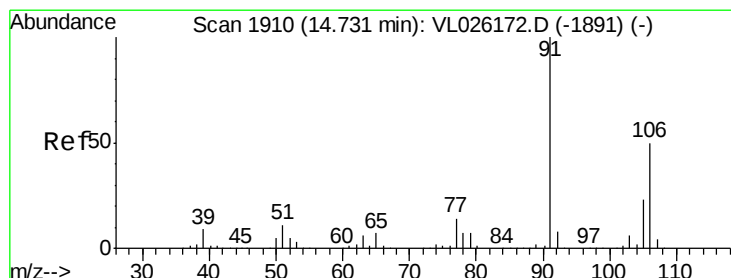
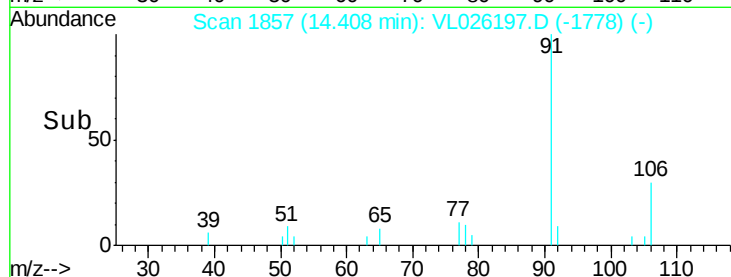
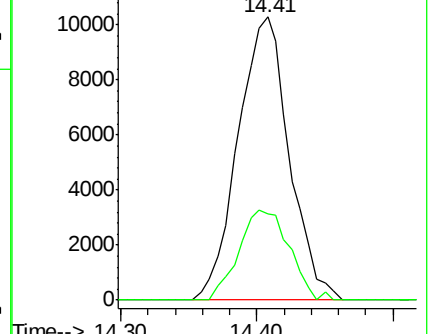
91 100

106 30.5 26.1 39.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.51 ppbv

RT: 14.68 min Scan# 1902

Delta R.T. -0.05 min

Lab File: VL026197.D

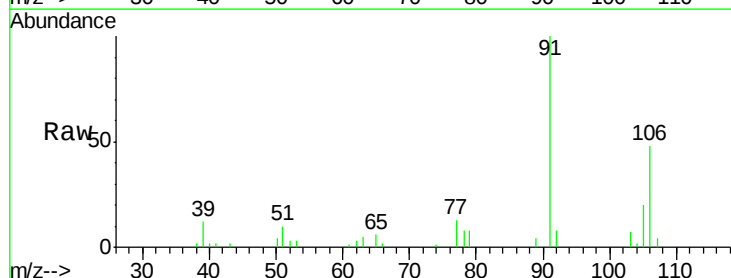
Acq: 10 Oct 2015 4:56

Tgt Ion: 91 Resp: 81752

Ion Ratio Lower Upper

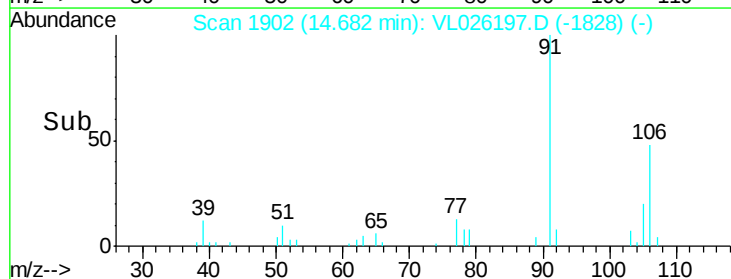
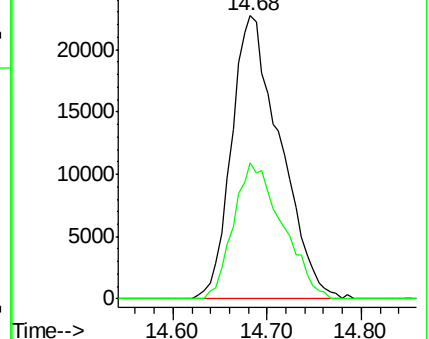
91 100

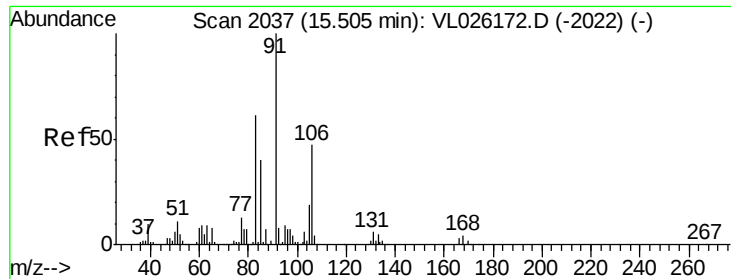
106 48.2 40.2 60.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

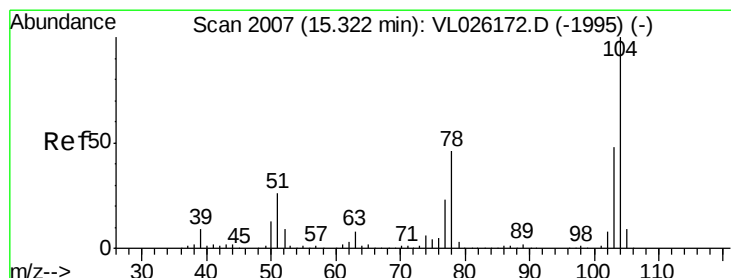
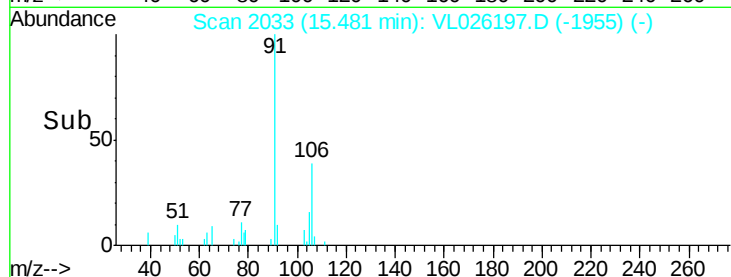
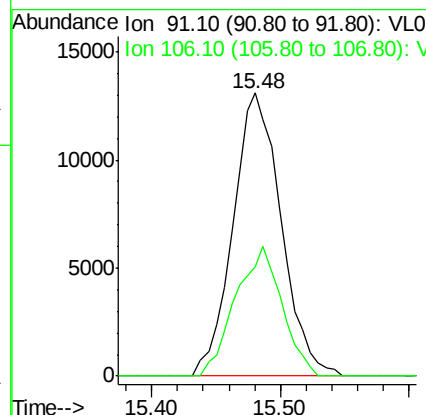
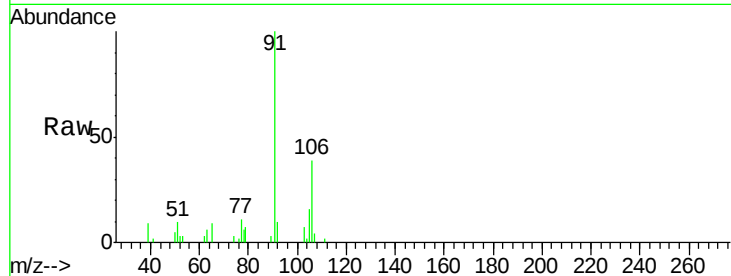




#60
o-Xylene
Concen: 0.20 ppbv
RT: 15.48 min Scan# 2033
Delta R.T. -0.02 min
Lab File: VL026197.D
Acq: 10 Oct 2015 4:56

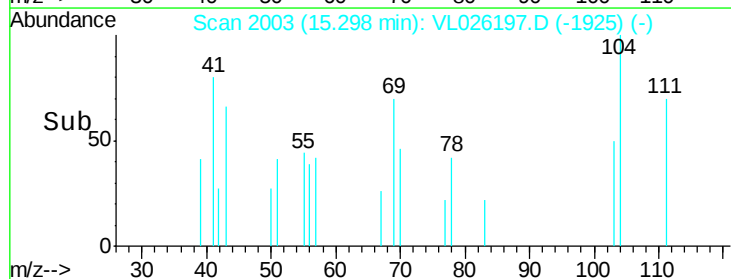
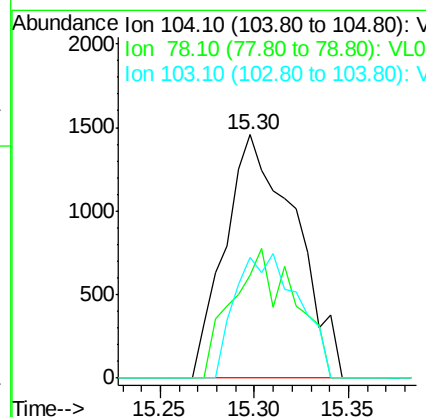
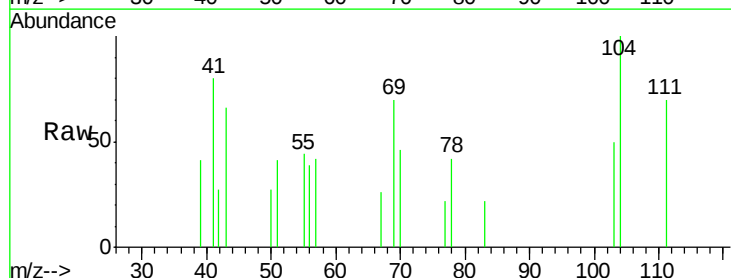
Instrument :
MSVOA_L
ClientSampled :

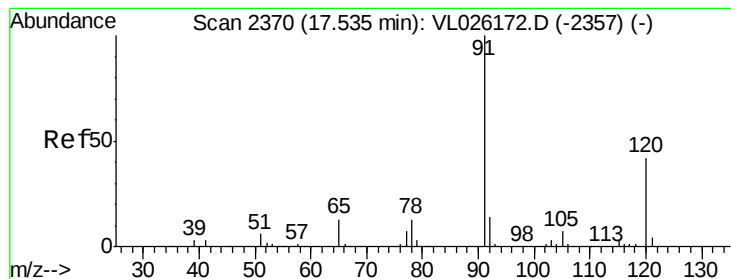
Tot Ion: 91 Resp: 33972
Ion Ratio Lower Upper
91 100
106 44.1 23.4 70.3



#61
Styrene
Concen: 0.05 ppbv
RT: 15.30 min Scan# 2003
Delta R.T. -0.02 min
Lab File: VL026197.D
Acq: 10 Oct 2015 4:56

Tgt Ion: 104 Resp: 3783
Ion Ratio Lower Upper
104 100
78 47.5 36.1 54.1
103 45.8 37.5 56.3





#64

n-propylbenzene

Concen: 0.04 ppbv

RT: 17.50 min Scan# 2365

Delta R.T. -0.03 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

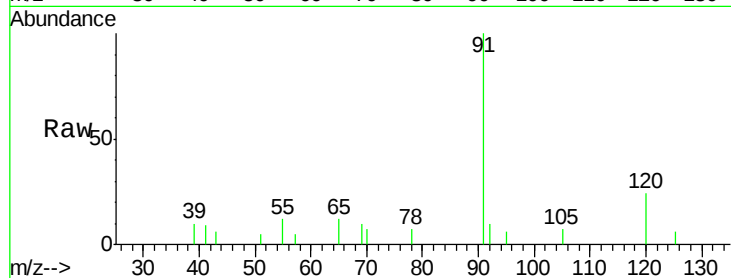
ClientSampleId :

Tot Ion:120 Resp: 2187

Ion Ratio Lower Upper

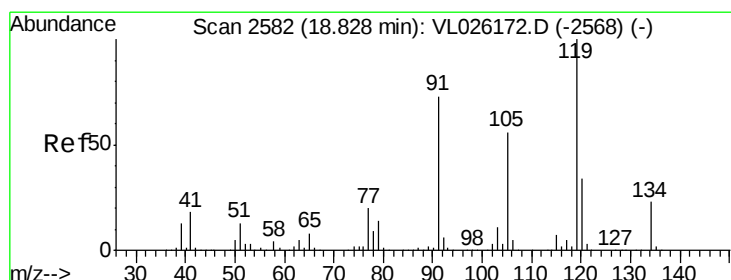
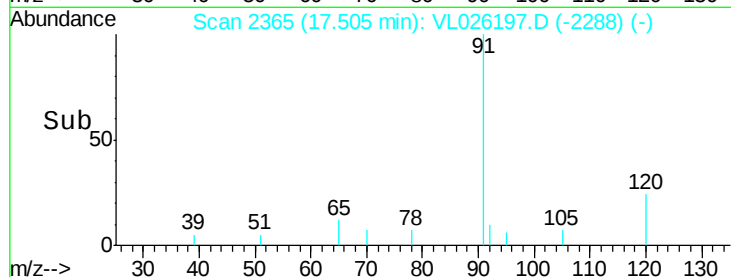
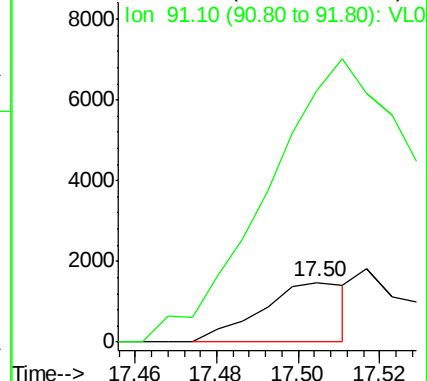
120 100

91 0.0 353.4 530.2#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.07 ppbv

RT: 18.82 min Scan# 2581

Delta R.T. -0.01 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

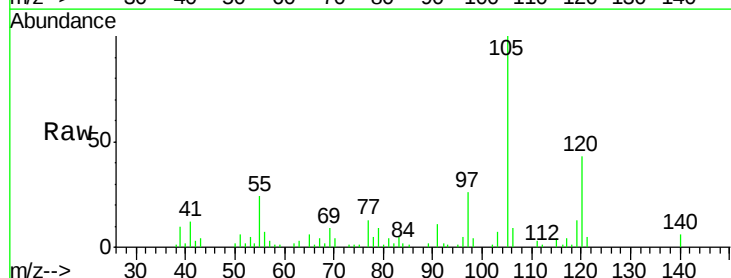
Tgt Ion:119 Resp: 13050

Ion Ratio Lower Upper

119 100

91 90.3 58.5 87.7#

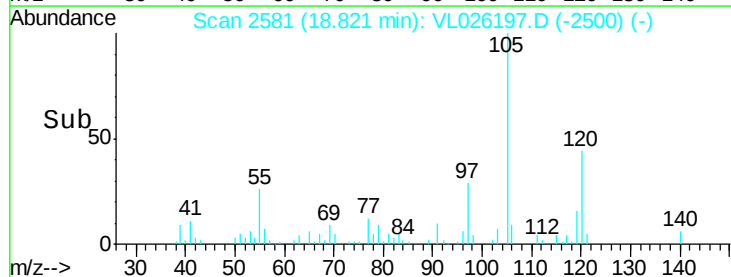
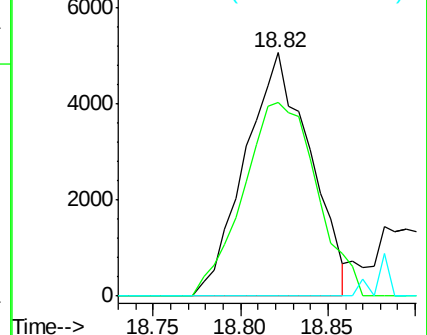
134 0.0 18.0 27.0#

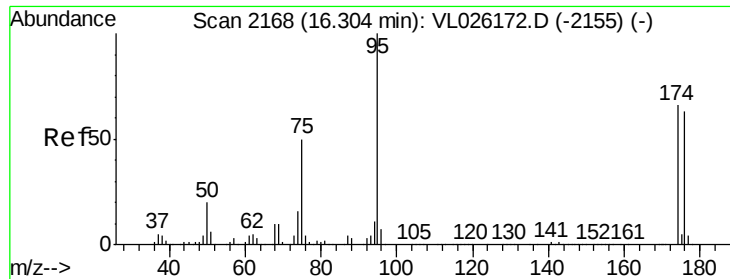


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

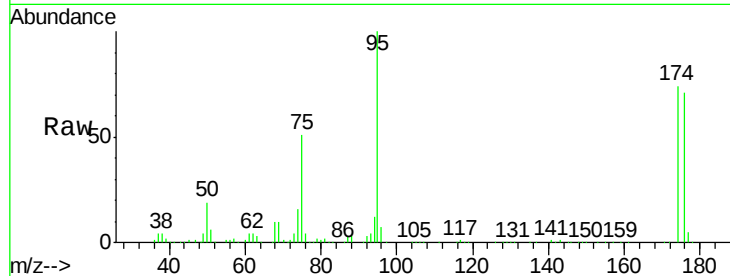




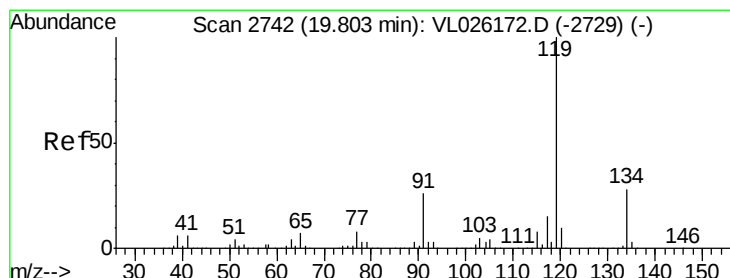
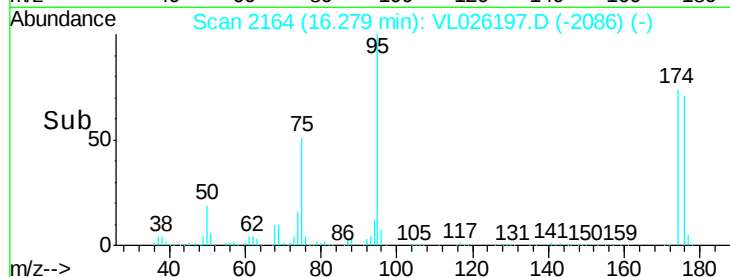
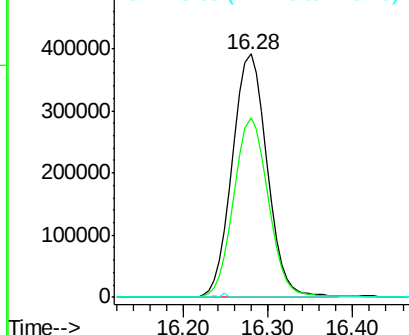
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.41 ppbv
 RT: 16.28 min Scan# 2164
 Delta R.T. -0.02 min
 Lab File: VL026197.D
 Acq: 10 Oct 2015 4:56

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 1101350
 Ion Ratio Lower Upper
 95 100
 174 73.9 52.2 78.4
 175 0.3 3.9 5.9#

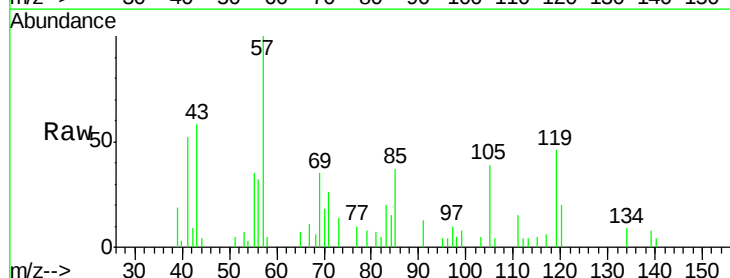


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

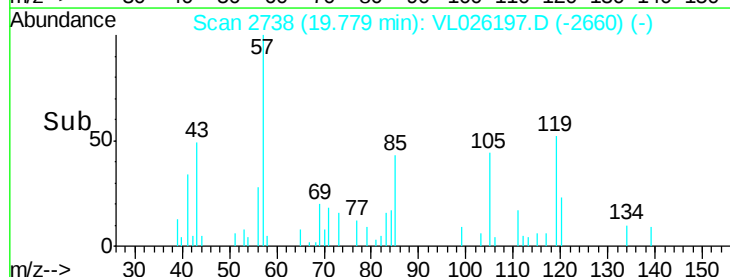
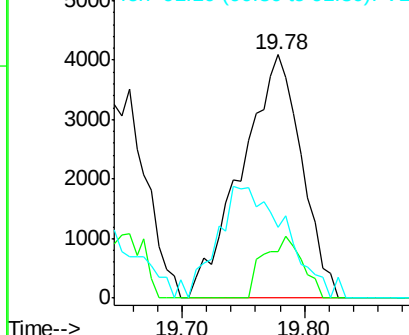


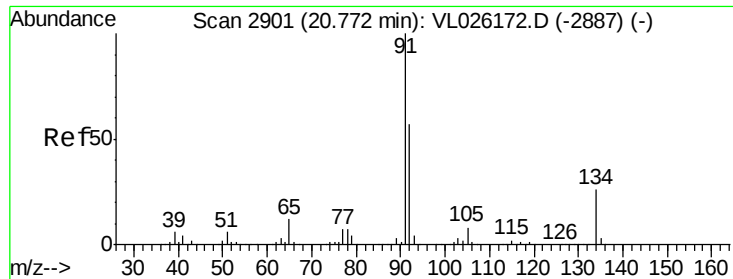
#69
 p-Isopropyltoluene
 Concen: 0.06 ppbv
 RT: 19.78 min Scan# 2738
 Delta R.T. -0.02 min
 Lab File: VL026197.D
 Acq: 10 Oct 2015 4:56

Tgt Ion: 119 Resp: 13900
 Ion Ratio Lower Upper
 119 100
 134 16.4 21.4 32.0#
 91 52.3 19.9 29.9#



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): VL0





#70

n-Butylbenzene

Concen: 0.08 ppbv

RT: 20.75 min Scan# 2897

Delta R.T. -0.02 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

ClientSampleId :

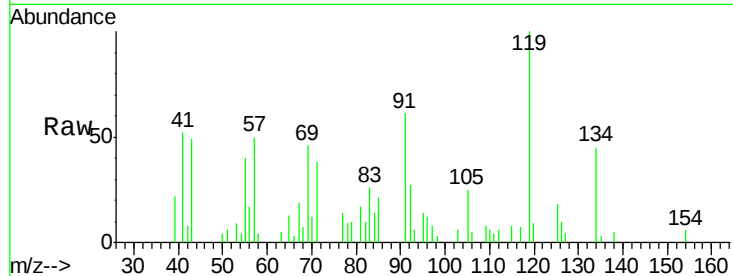
Tot Ion: 91 Resp: 16648

Ion Ratio Lower Upper

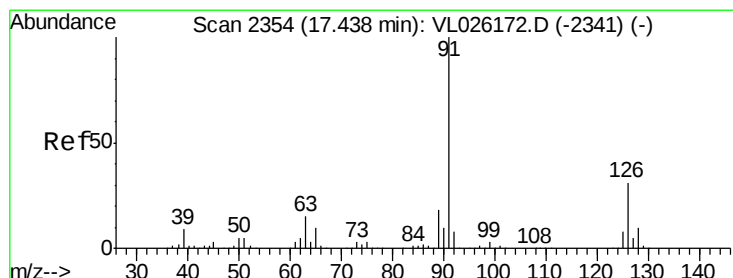
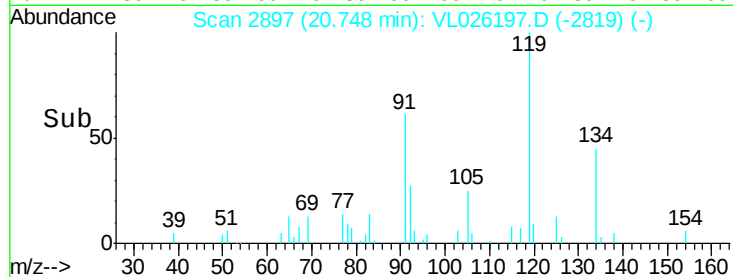
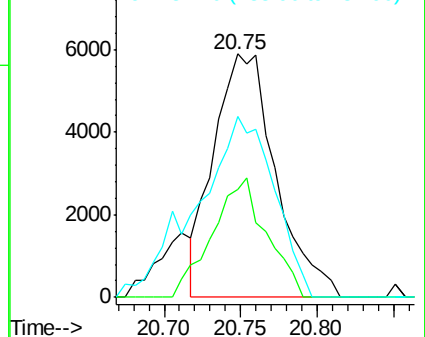
91 100

92 42.8 45.0 67.6#

134 93.1 19.8 29.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V



#71

2-Chlorotoluene

Concen: 0.05 ppbv

RT: 17.25 min Scan# 2324

Delta R.T. -0.18 min

Lab File: VL026197.D

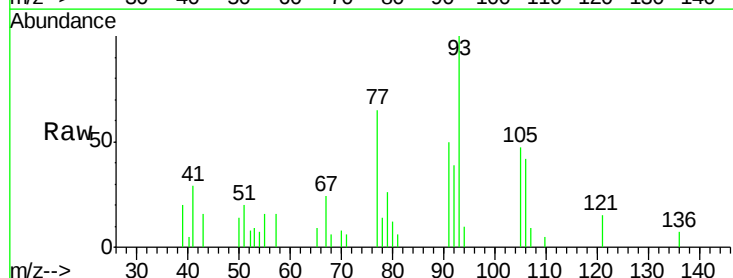
Acq: 10 Oct 2015 4:56

Tgt Ion: 91 Resp: 8405

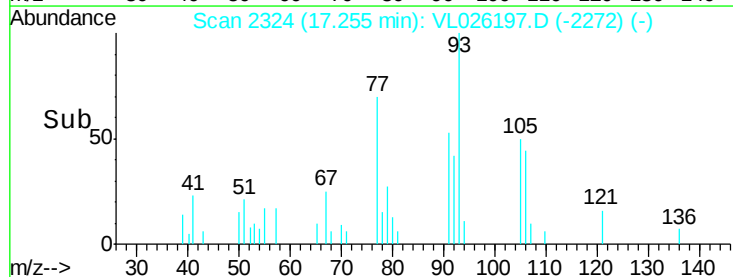
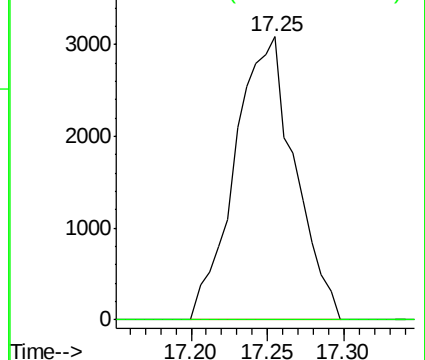
Ion Ratio Lower Upper

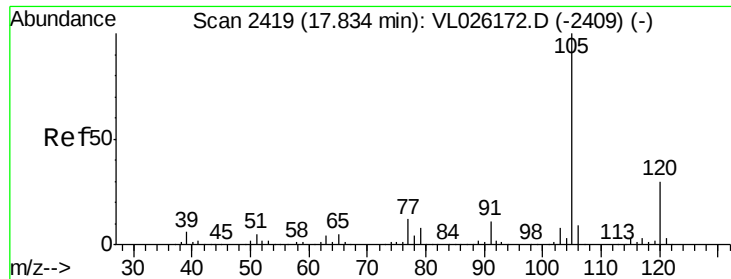
91 100

126 31.3 12.8 51.2



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





#72

4-Ethyltoluene

Concen: 0.17 ppbv

RT: 17.81 min Scan# 2415

Delta R.T. -0.02 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 30523

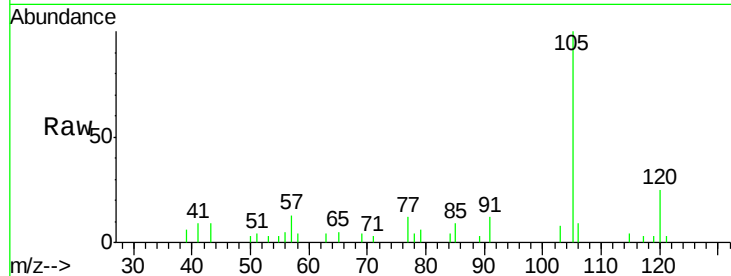
Ion Ratio Lower Upper

105 100

120 29.1 24.7 37.1

91 11.3 9.2 13.8

77 11.0 9.8 14.8

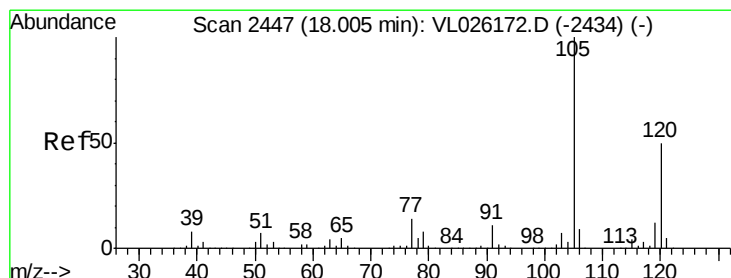
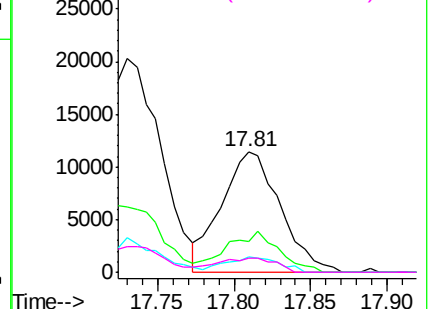
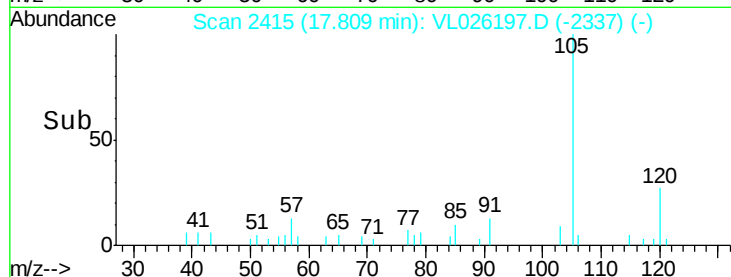


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.18 ppbv

RT: 17.97 min Scan# 2442

Delta R.T. -0.03 min

Lab File: VL026197.D

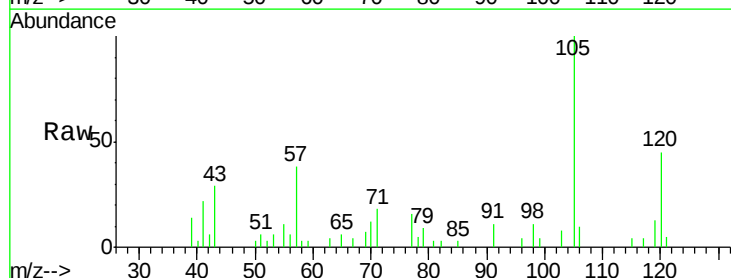
Acq: 10 Oct 2015 4:56

Tgt Ion:105 Resp: 30918

Ion Ratio Lower Upper

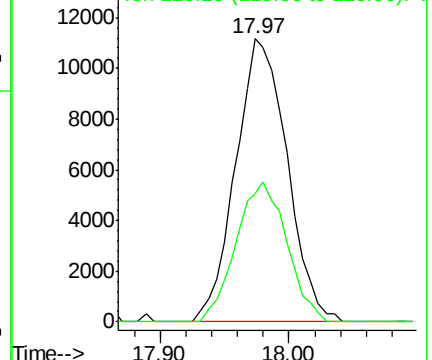
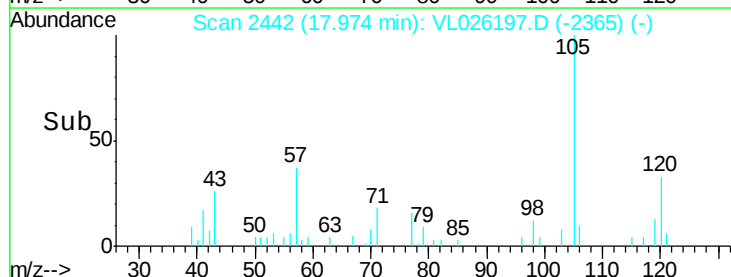
105 100

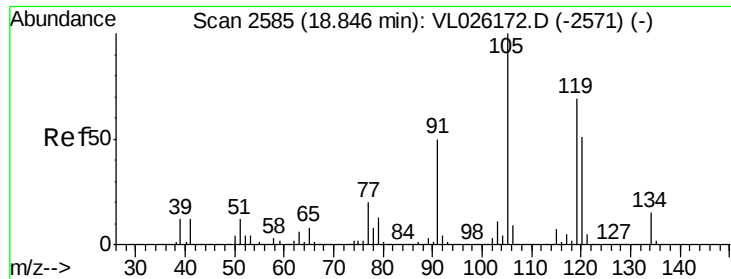
120 45.2 40.1 60.1



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: 0.61 ppbv

RT: 18.82 min Scan# 2581

Delta R.T. -0.02 min

Lab File: VL026197.D

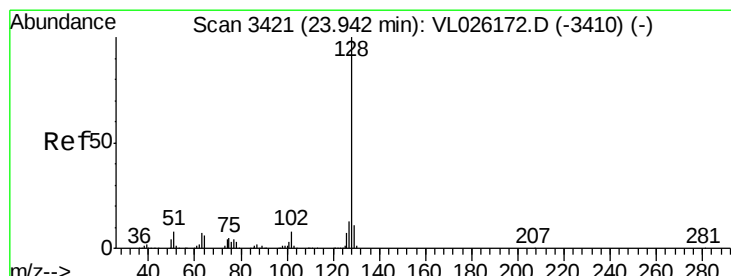
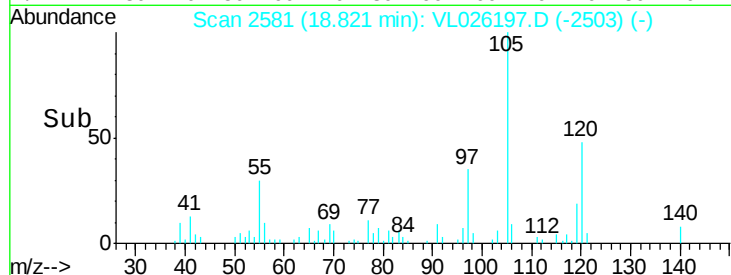
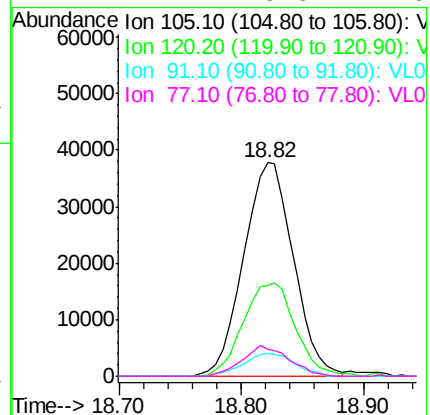
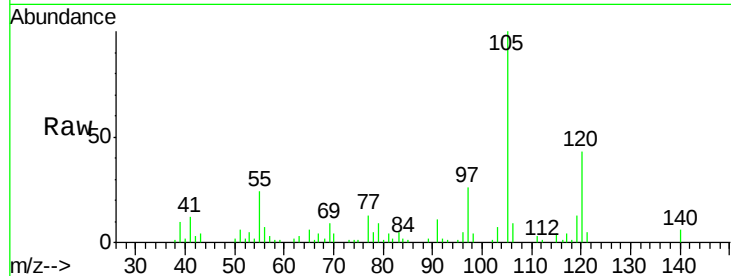
Acq: 10 Oct 2015 4:56

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	107174
Ion	Ratio	Lower	Upper
105	100		
120	42.7	41.1	61.7
91	10.6	39.8	59.6#
77	12.7	16.3	24.5#



#79

Naphthalene

Concen: 0.15 ppbv

RT: 23.94 min Scan# 3420

Delta R.T. -0.01 min

Lab File: VL026197.D

Acq: 10 Oct 2015 4:56

Tgt Ion:	128	Resp:	17087
Ion	Ratio	Lower	Upper
128	100		
127	11.7	10.2	15.2
129	13.2	8.7	13.1#

