

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026198.D
 Acq On : 10 Oct 2015 5:34
 Operator : SY/MD
 Sample : G3925-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 12 02:09:11 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	6.64	49	430330	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	8.32	114	1414764	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.73	117	1634452	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.27	95	1313294	10.47	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

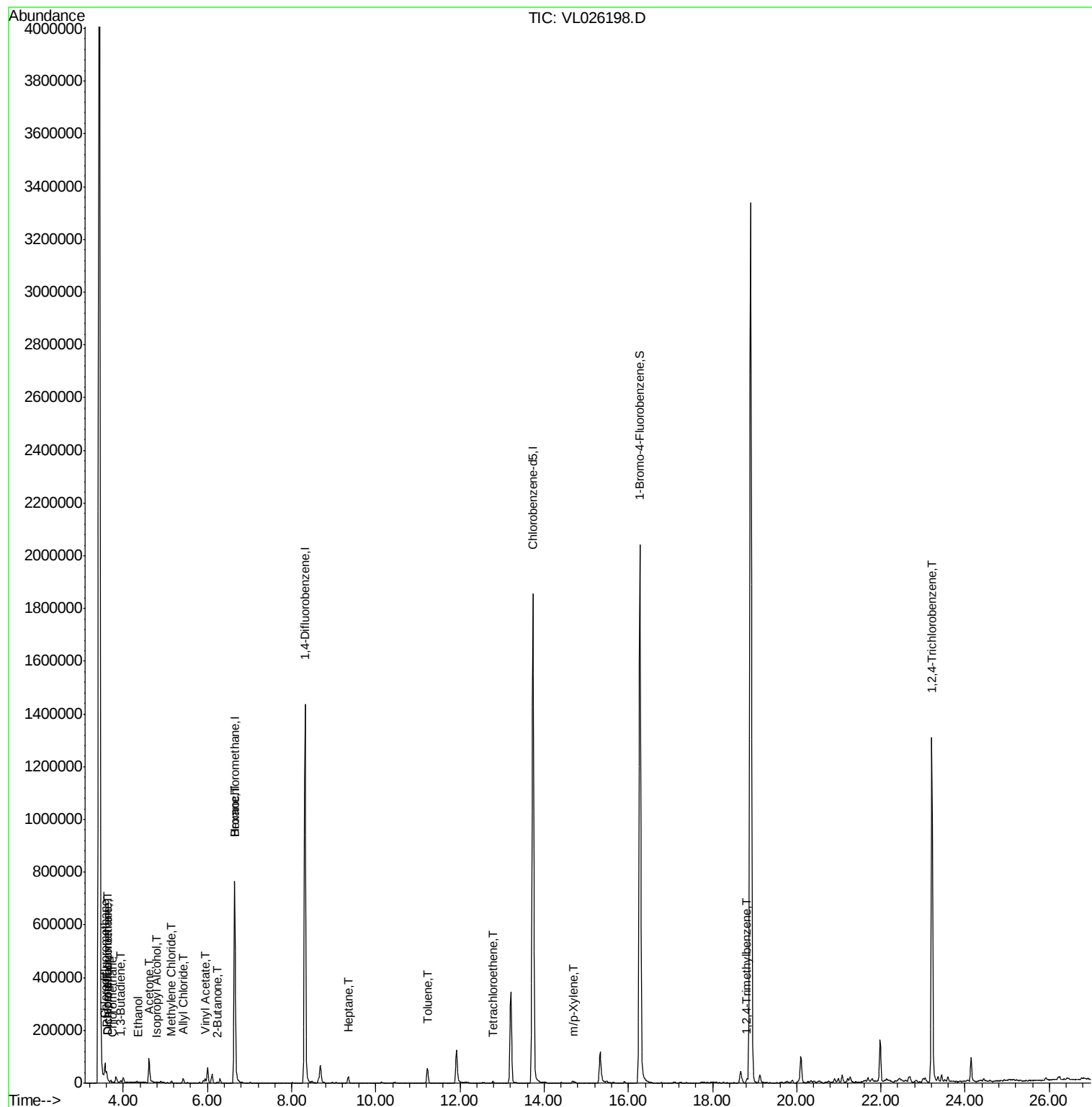
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.64	85	4527	0.06	ppbv	95
3) Chlorodifluoromethane	3.56	51	78673	1.57	ppbv	99
4) Chloromethane	3.75	50	1223	0.04	ppbv #	42
8) Dichlorotetrafluoroethane	3.64	85	4527	0.06	ppbv #	15
9) Propene	3.60	41	9518	0.41	ppbv #	62
10) Heptane	9.35	43	12493	0.16	ppbv	87
13) Ethanol	4.35	45	3902	1.15	ppbv	78
15) Acetone	4.61	43	130708	2.35	ppbv	95
16) 1,3-Butadiene	3.95	39	1903	0.07	ppbv #	7
19) Isopropyl Alcohol	4.80	45	1187	0.05	ppbv #	1
20) Methylene Chloride	5.15	84	3938	0.17	ppbv	91
21) Allyl Chloride	5.43	41	3086	0.09	ppbv #	61
23) Vinyl Acetate	5.95	43	9784	0.10	ppbv #	3
26) Hexane	6.65	57	2935	0.06	ppbv #	57
34) 2-Butanone	6.23	43	5743	0.07	ppbv #	80
52) Tetrachloroethene	12.79	164	2133	0.03	ppbv #	83
53) Toluene	11.23	91	60629	0.35	ppbv	100
59) m/p-Xylene	14.69	91	12572	0.07	ppbv	98
74) 1,2,4-Trimethylbenzene	18.82	105	15065	0.07	ppbv #	70
81) 1,2,4-Trichlorobenzene	23.22	180	2749	0.04	ppbv #	12

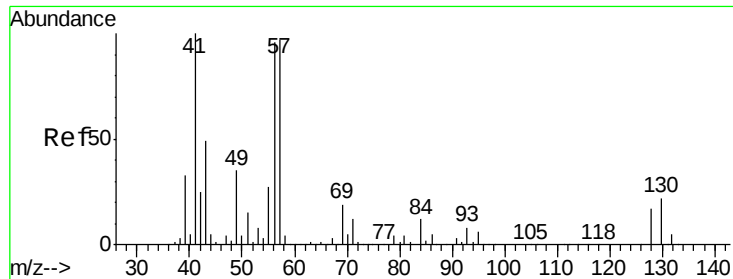
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 09 16:23:14 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.64 min Scan# 583

Delta R.T. -0.02 min

Lab File: VL026198.D

Acq: 10 Oct 2015 5:34

Instrument :

MSVOA_L

ClientSampleId :

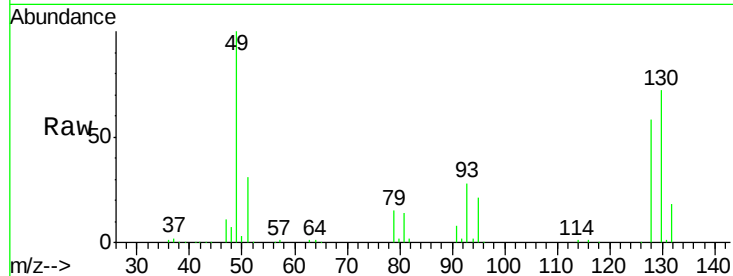
Tot Ion: 49 Resp: 430330

Ion Ratio Lower Upper

49 100

128 61.5 26.3 78.8

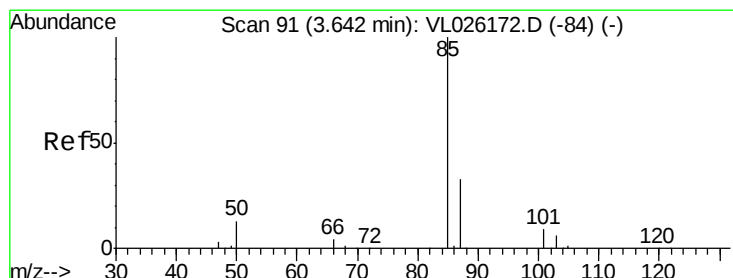
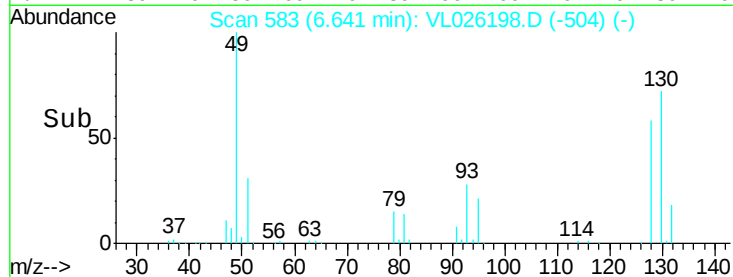
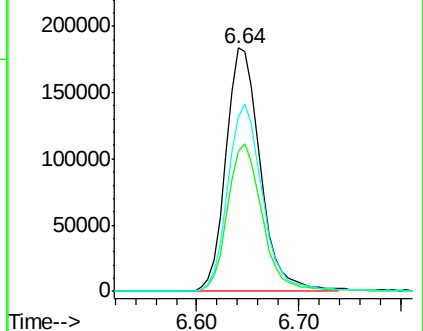
130 78.6 34.2 102.5



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: 0.06 ppbv

RT: 3.64 min Scan# 91

Delta R.T. 0.00 min

Lab File: VL026198.D

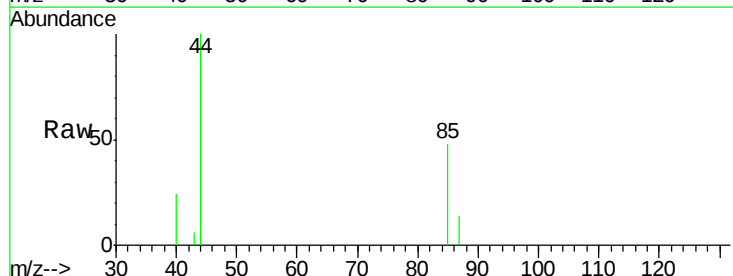
Acq: 10 Oct 2015 5:34

Tgt Ion: 85 Resp: 4527

Ion Ratio Lower Upper

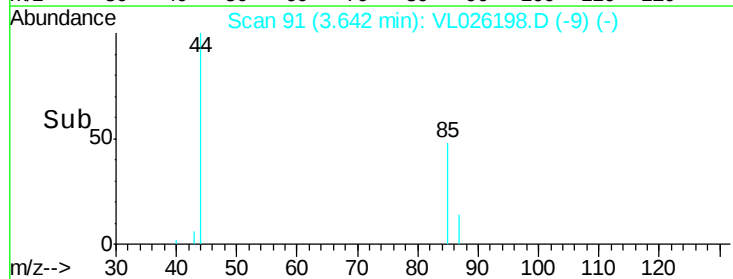
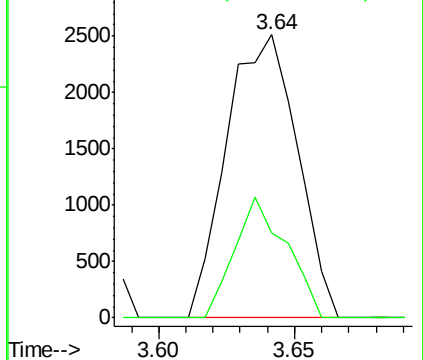
85 100

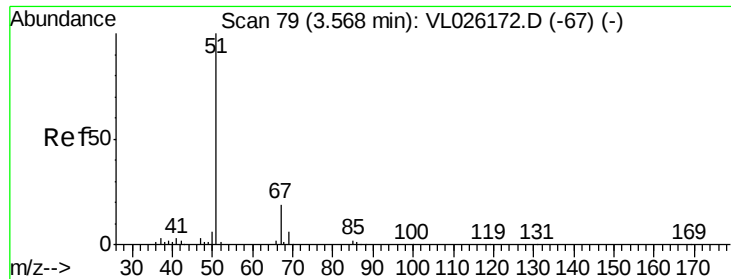
87 30.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.57 ppbv

RT: 3.56 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL026198.D

Acq: 10 Oct 2015 5:34

Instrument :

MSVOA_L

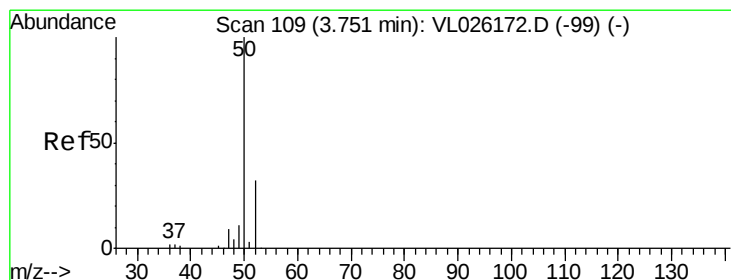
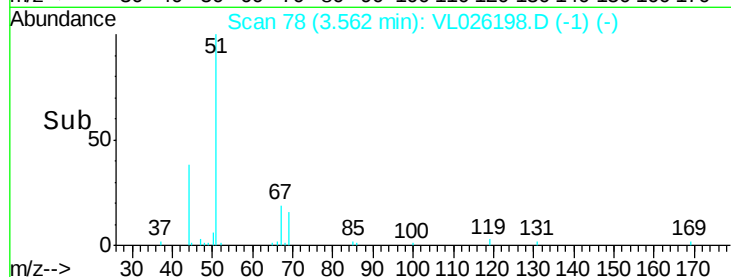
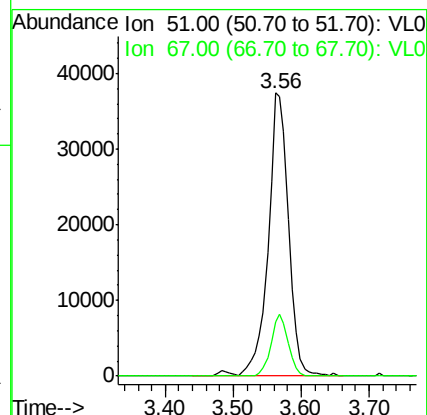
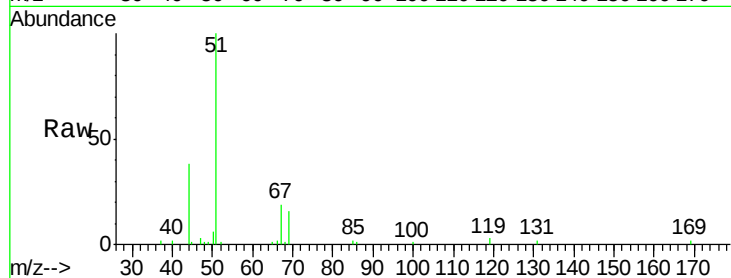
ClientSampleId :

Tot Ion: 51 Resp: 78673

Ion Ratio Lower Upper

51 100

67 18.2 14.9 22.3



#4

Chloromethane

Concen: 0.04 ppbv

RT: 3.75 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL026198.D

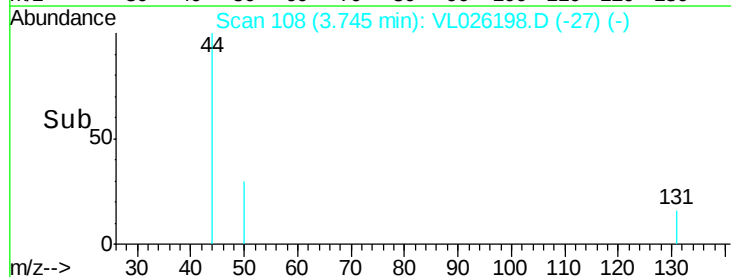
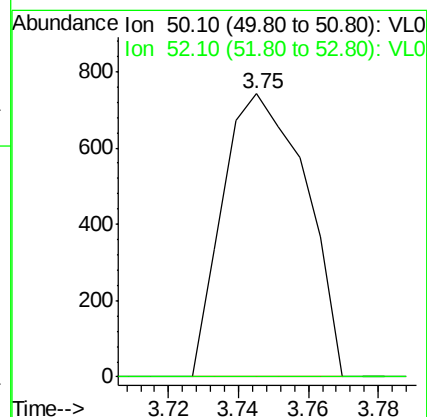
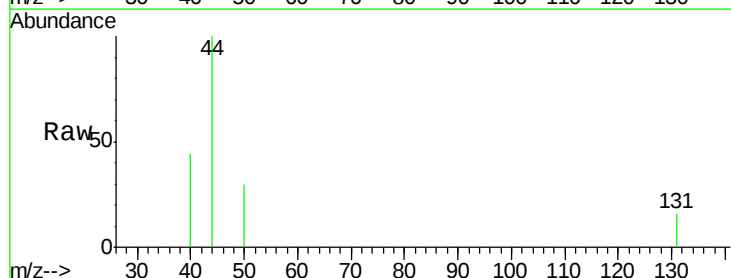
Acq: 10 Oct 2015 5:34

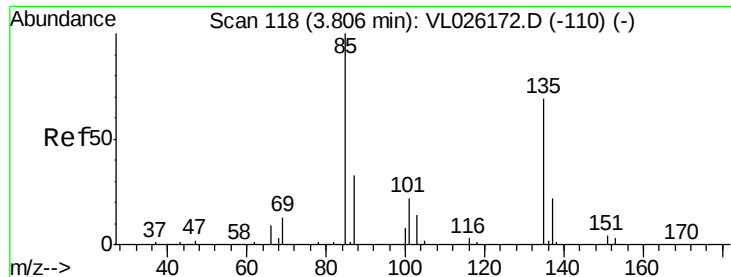
Tgt Ion: 50 Resp: 1223

Ion Ratio Lower Upper

50 100

52 0.0 25.9 38.9#





#8

Dichlorotetrafluoroethane

Concen: 0.06 ppbv

RT: 3.64 min Scan# 91

Delta R.T. -0.16 min

Lab File: VL026198.D

Acq: 10 Oct 2015 5:34

Instrument :

MSVOA_L

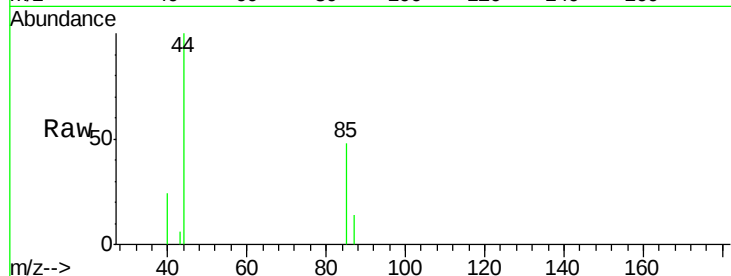
ClientSampled :

Tot Ion: 85 Resp: 4527

Ion Ratio Lower Upper

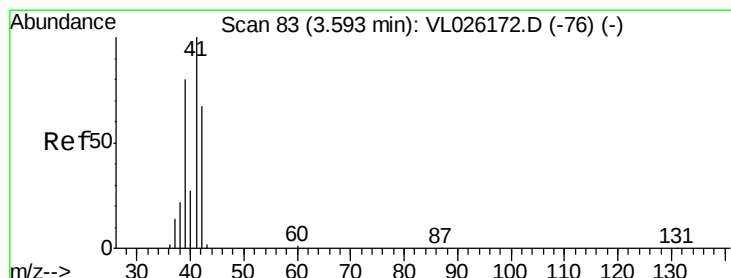
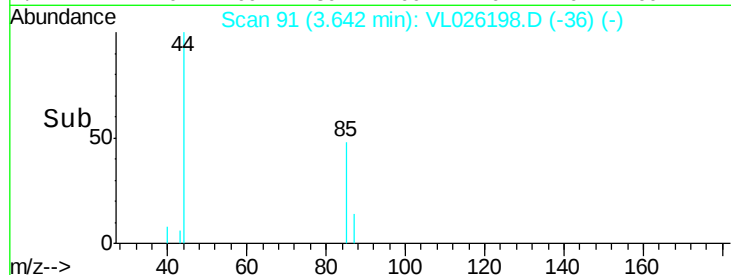
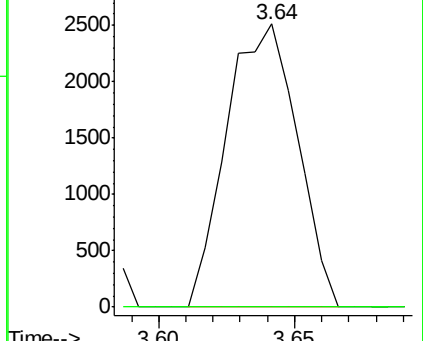
85 100

135 0.0 55.3 82.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.41 ppbv

RT: 3.60 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL026198.D

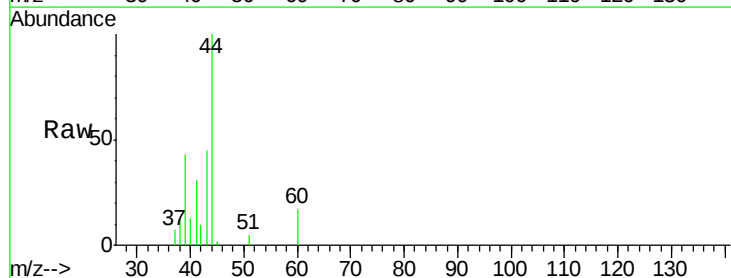
Acq: 10 Oct 2015 5:34

Tgt Ion: 41 Resp: 9518

Ion Ratio Lower Upper

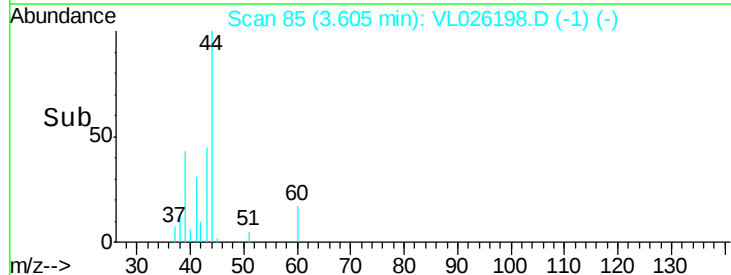
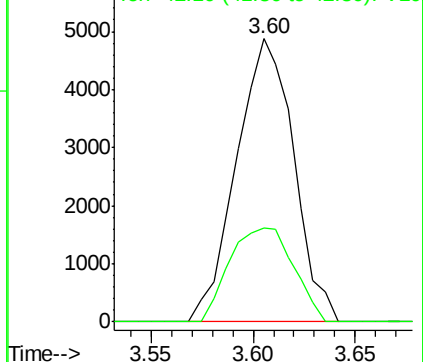
41 100

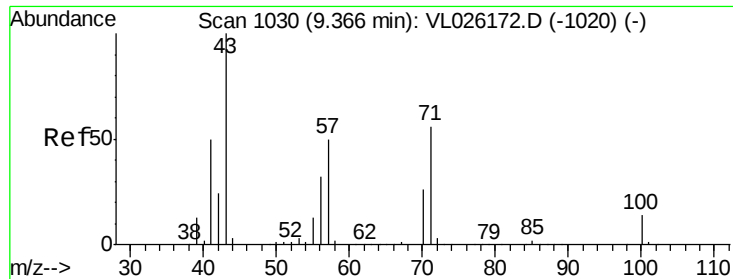
42 36.8 53.6 80.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.16 ppbv

RT: 9.35 min Scan# 1027

Delta R.T. -0.02 min

Lab File: VL026198.D

Acq: 10 Oct 2015 5:34

Instrument :

MSVOA_L

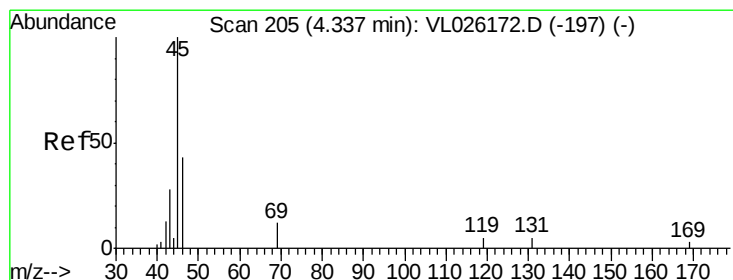
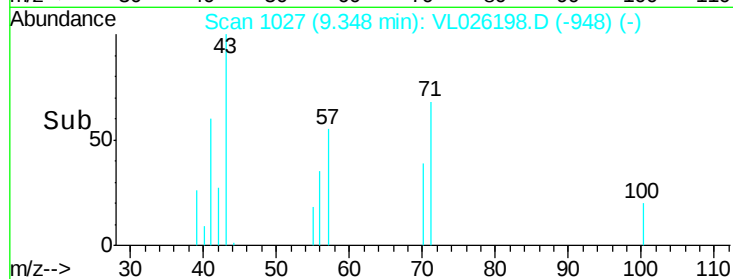
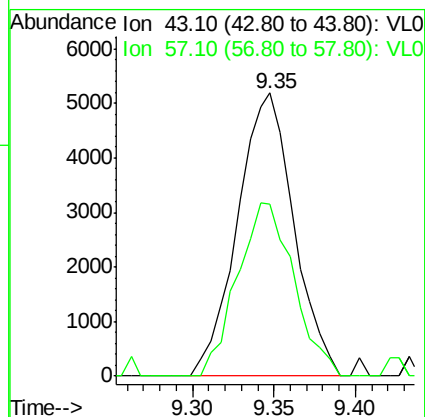
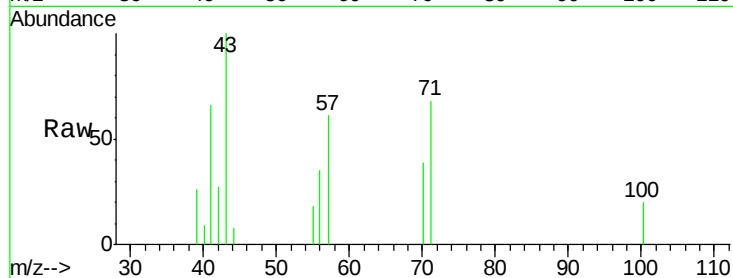
ClientSampled :

Tot Ion: 43 Resp: 12493

Ion Ratio Lower Upper

43 100

57 61.2 41.8 62.8



#13

Ethanol

Concen: 1.15 ppbv

RT: 4.35 min Scan# 208

Delta R.T. 0.02 min

Lab File: VL026198.D

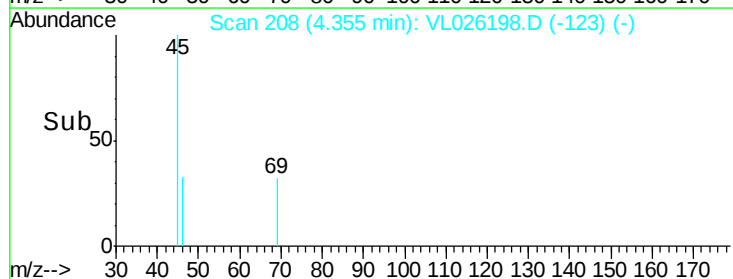
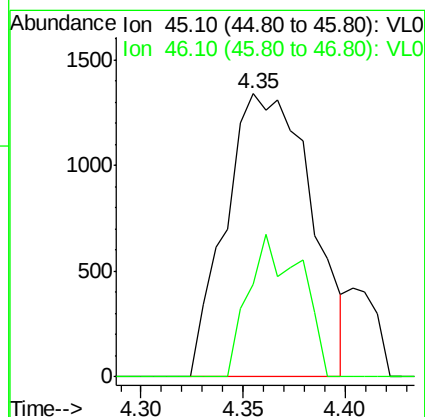
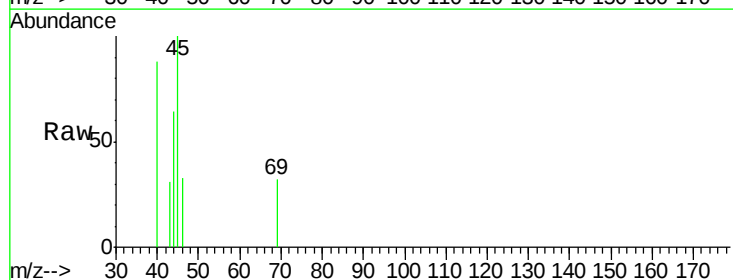
Acq: 10 Oct 2015 5:34

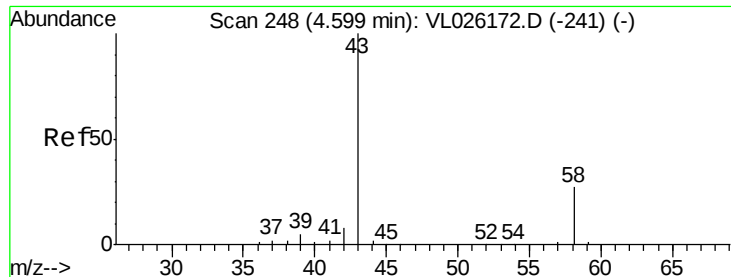
Tgt Ion: 45 Resp: 3902

Ion Ratio Lower Upper

45 100

46 30.8 18.1 72.5





#15

Acetone

Concen: 2.35 ppbv

RT: 4.61 min Scan# 250

Delta R.T. 0.01 min

Lab File: VL026198.D

Acq: 10 Oct 2015 5:34

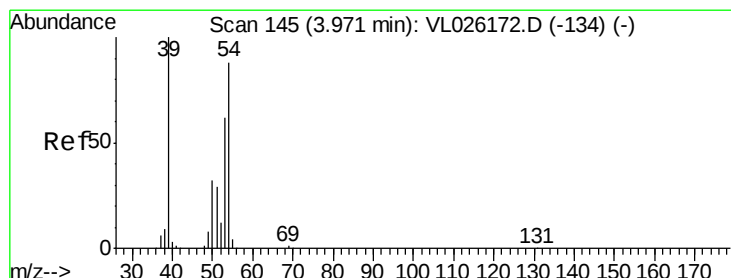
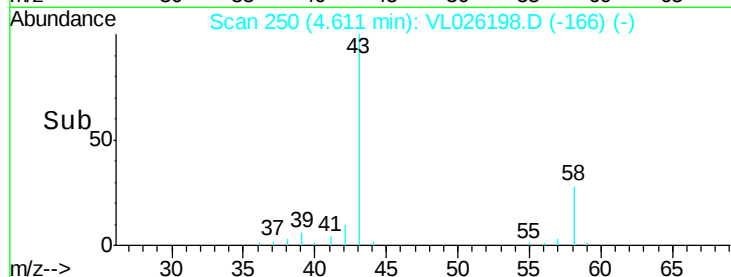
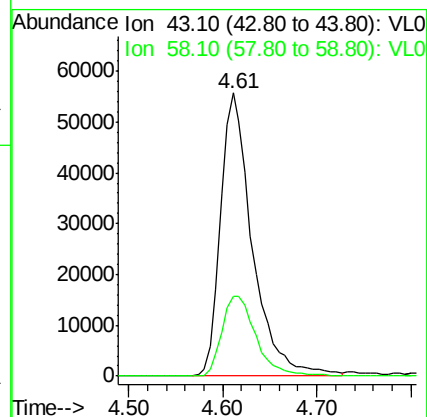
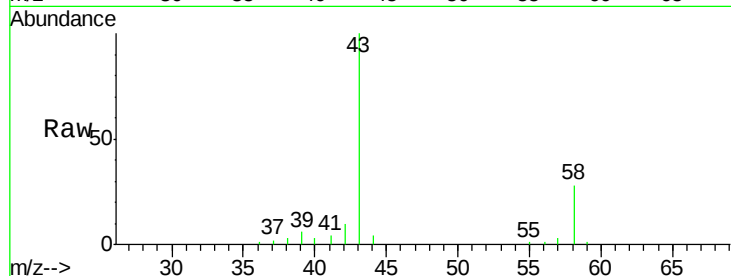
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 43 Resp: 130708

Ion Ratio Lower Upper

43 100

58 30.2 22.0 33.0



#16

1,3-Butadiene

Concen: 0.07 ppbv

RT: 3.95 min Scan# 141

Delta R.T. -0.02 min

Lab File: VL026198.D

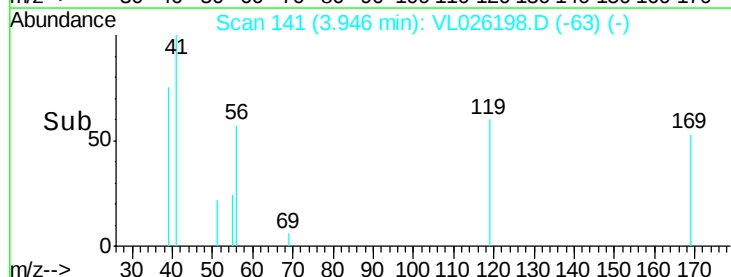
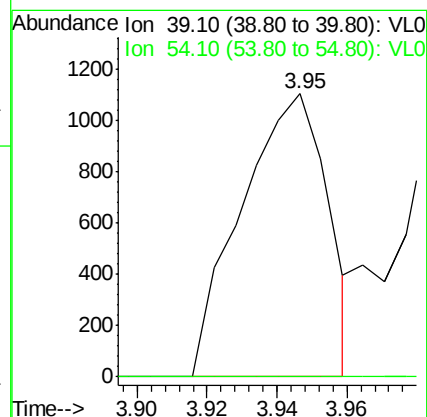
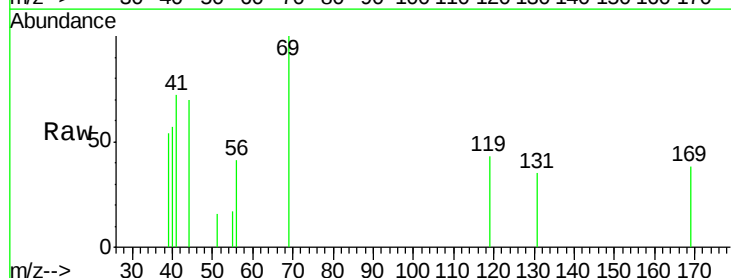
Acq: 10 Oct 2015 5:34

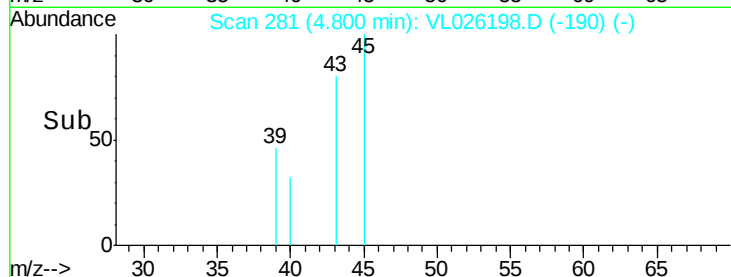
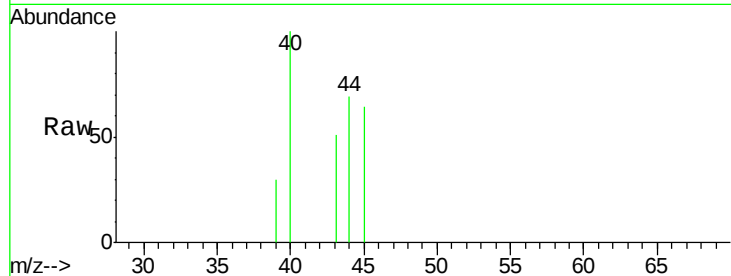
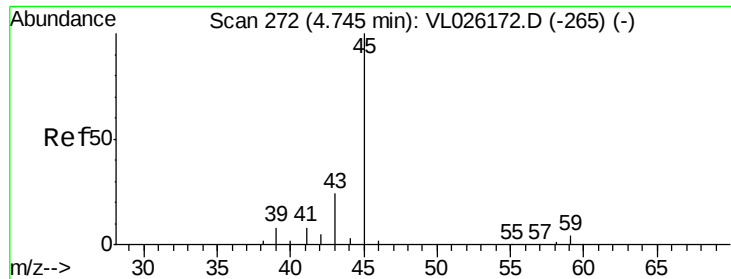
Tgt Ion: 39 Resp: 1903

Ion Ratio Lower Upper

39 100

54 0.0 67.9 101.9#





#19

Isopropyl Alcohol

Concen: 0.05 ppbv

RT: 4.80 min Scan# 281

Delta R.T. 0.05 min

Lab File: VL026198.D

Acq: 10 Oct 2015 5:34

Tot Ion: 45 Resp: 1187

Ion Ratio Lower Upper

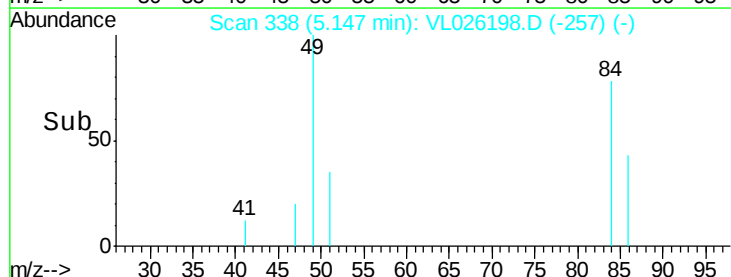
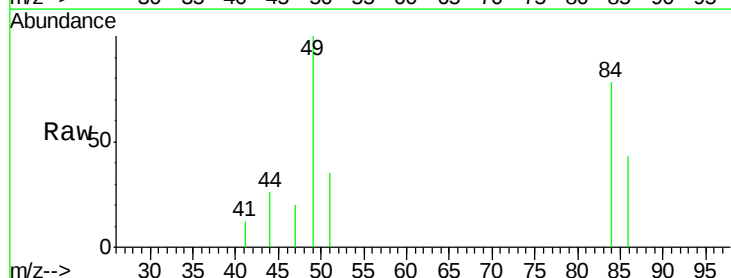
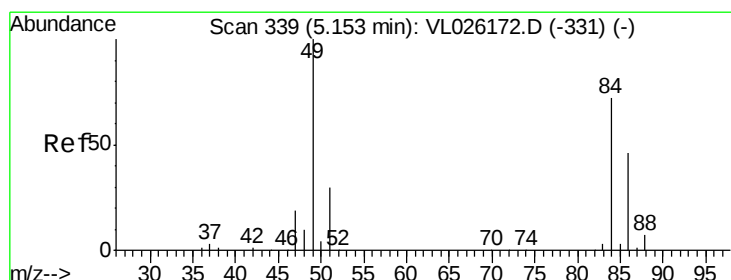
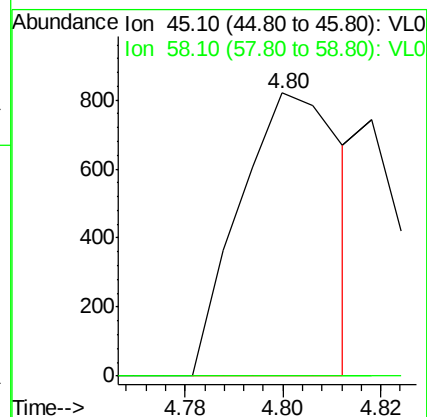
45 100

58 3327.7 1.7 2.5#

Instrument :

MSVOA_L

ClientSampled :



#20

Methylene Chloride

Concen: 0.17 ppbv

RT: 5.15 min Scan# 338

Delta R.T. -0.01 min

Lab File: VL026198.D

Acq: 10 Oct 2015 5:34

Tgt Ion: 84 Resp: 3938

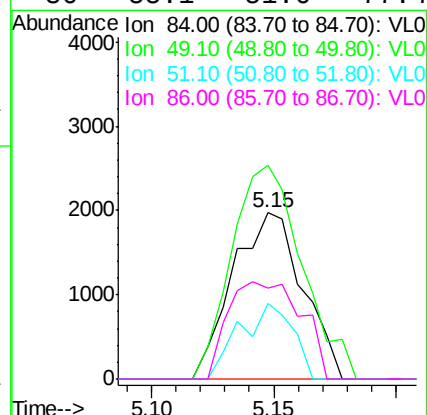
Ion Ratio Lower Upper

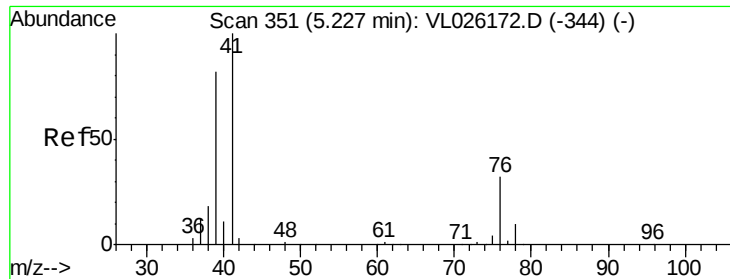
84 100

49 128.5 111.3 166.9

51 45.1 33.0 49.6

86 55.1 51.6 77.4

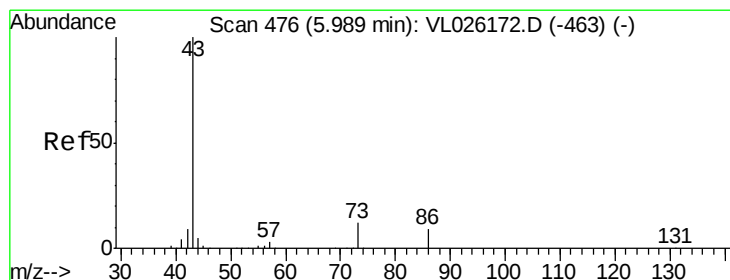
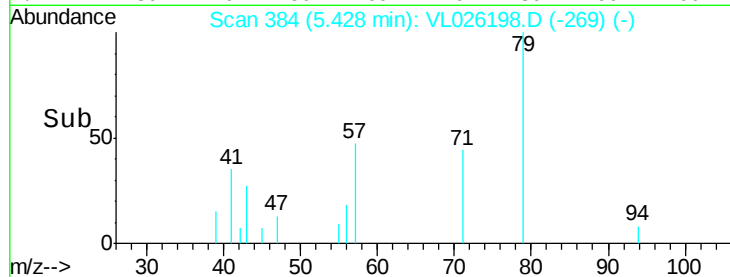
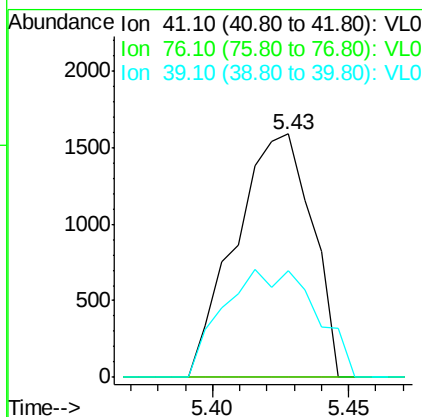
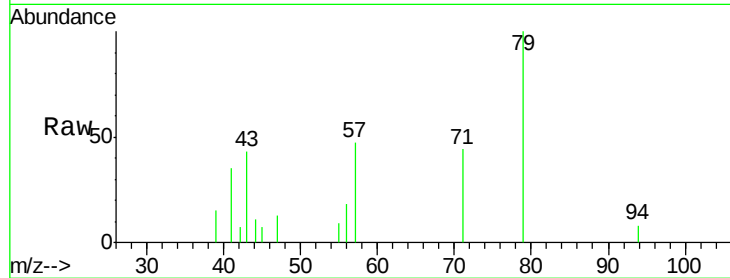




#21
Allvl Chloride
Concen: 0.09 ppbv
RT: 5.43 min Scan# 384
Delta R.T. 0.20 min
Lab File: VL026198.D
Acq: 10 Oct 2015 5:34

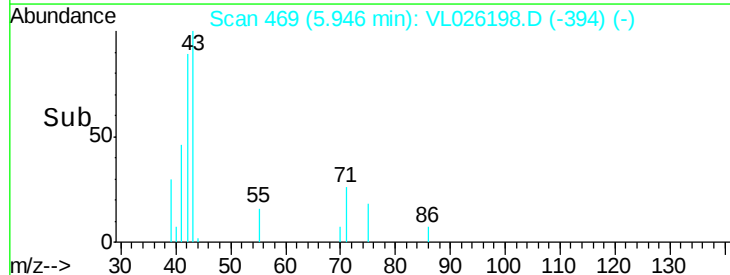
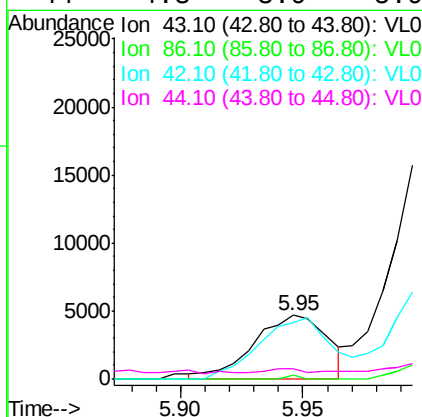
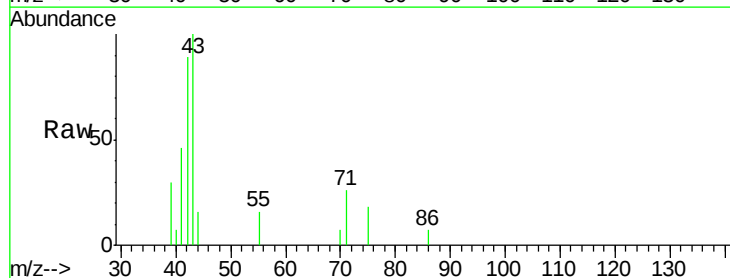
Instrument :
MSVOA_L
ClientSampleId :

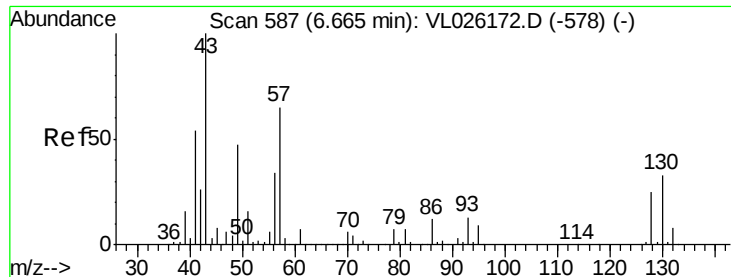
Tot Ion: 41 Resp: 3086
Ion Ratio Lower Upper
41 100
76 0.0 25.4 38.2#
39 53.7 66.5 99.7#



#23
Vinyl Acetate
Concen: 0.10 ppbv
RT: 5.95 min Scan# 469
Delta R.T. -0.04 min
Lab File: VL026198.D
Acq: 10 Oct 2015 5:34

Tgt Ion: 43 Resp: 9784
Ion Ratio Lower Upper
43 100
86 7.6 7.2 10.8
42 96.1 7.4 11.2#
44 4.3 3.9 5.9

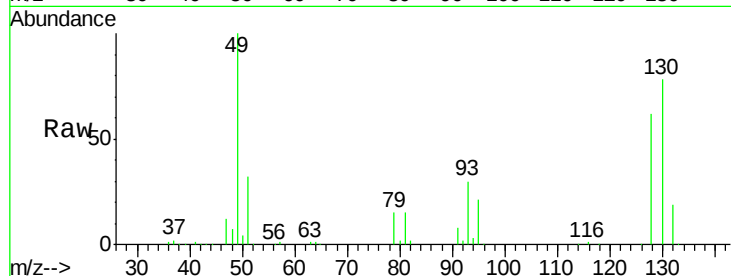




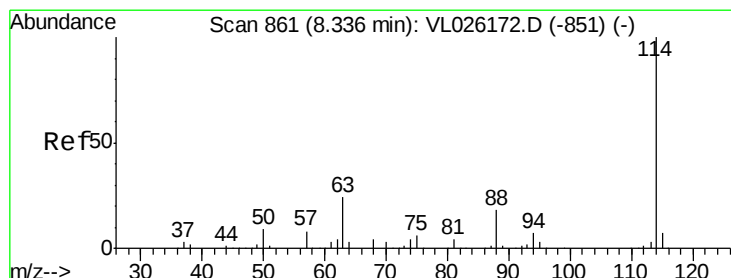
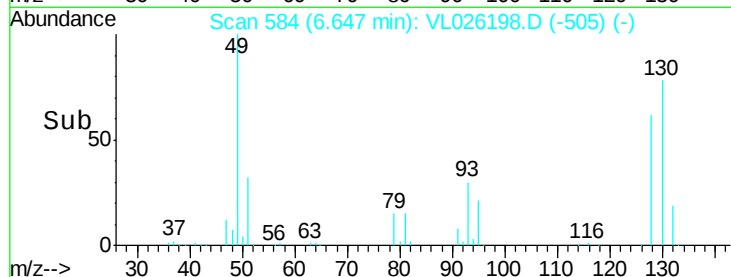
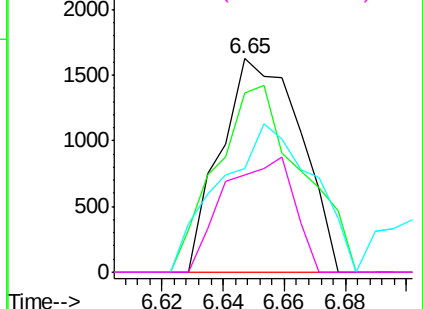
#26
Hexane
Concen: 0.06 ppbv
RT: 6.65 min Scan# 584
Delta R.T. -0.02 min
Lab File: VL026198.D
Acq: 10 Oct 2015 5:34

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 2935
Ion Ratio Lower Upper
57 100
41 93.6 68.0 102.0
43 103.8 164.4 246.6#
56 47.4 42.7 64.1

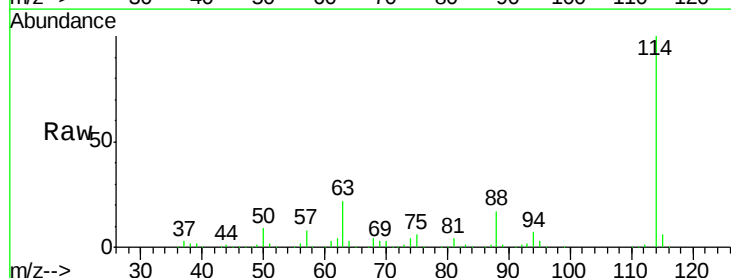


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

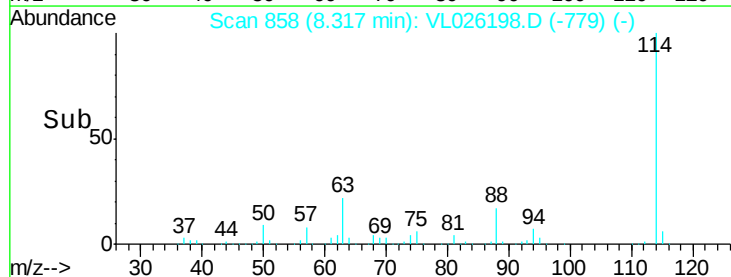
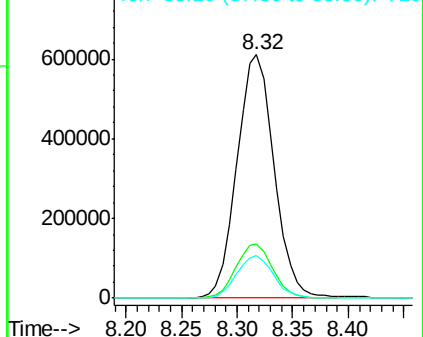


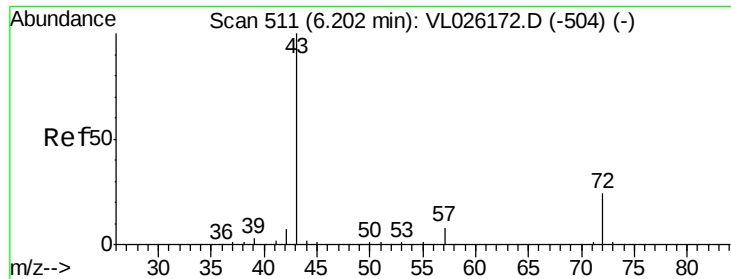
#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.32 min Scan# 858
Delta R.T. -0.02 min
Lab File: VL026198.D
Acq: 10 Oct 2015 5:34

Tgt Ion: 114 Resp: 1414764
Ion Ratio Lower Upper
114 100
63 22.3 19.0 28.6
88 17.4 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

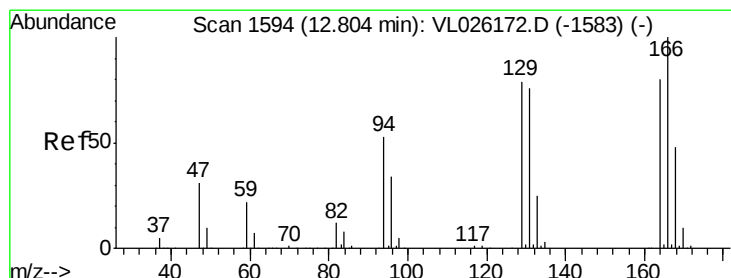
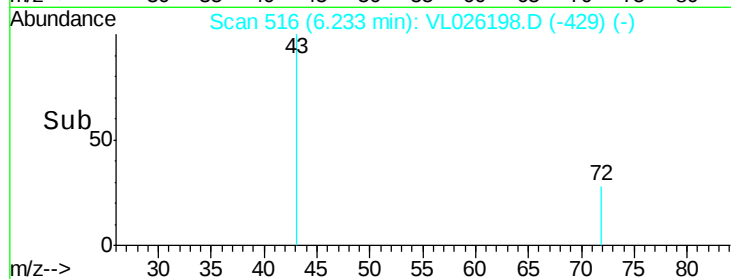
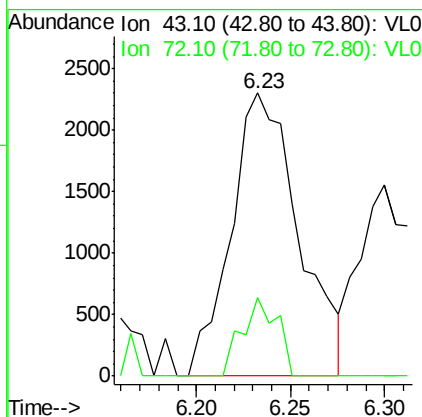
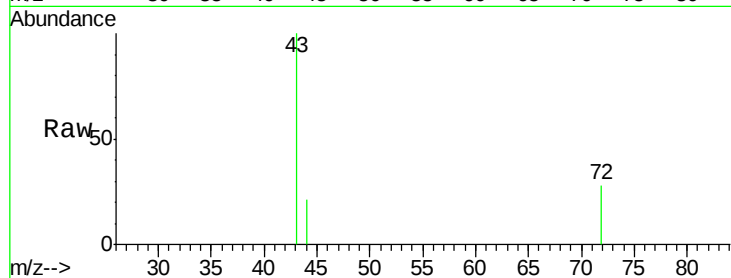




#34
2-Butanone
Concen: 0.07 ppbv
RT: 6.23 min Scan# 516
Delta R.T. 0.03 min
Lab File: VL026198.D
Acq: 10 Oct 2015 5:34

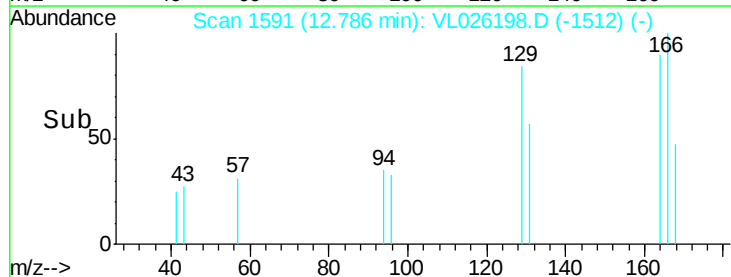
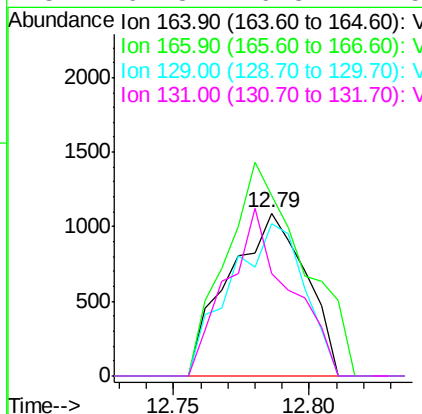
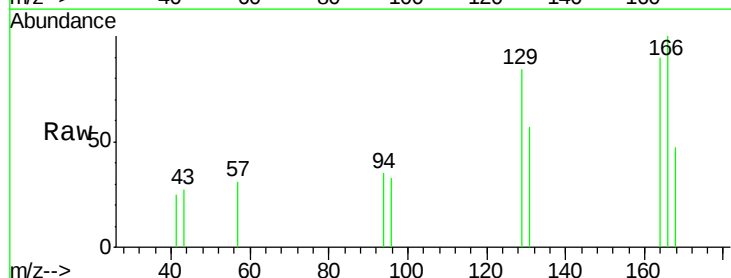
Instrument :
MSVOA_L
ClientSampled :

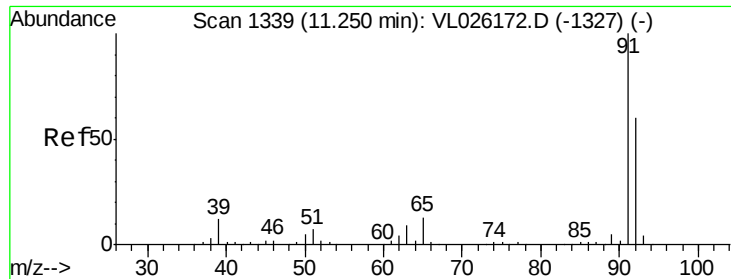
Tot Ion: 43 Resp: 5743
Ion Ratio Lower Upper
43 100
72 14.5 19.6 29.4#



#52
Tetrachloroethene
Concen: 0.03 ppbv
RT: 12.79 min Scan# 1591
Delta R.T. -0.02 min
Lab File: VL026198.D
Acq: 10 Oct 2015 5:34

Tgt Ion: 164 Resp: 2133
Ion Ratio Lower Upper
164 100
166 110.9 99.9 149.9
129 93.5 79.1 118.7
131 62.8 76.3 114.5#





#53

Toluene

Concen: 0.35 ppbv

RT: 11.23 min Scan# 1336

Delta R.T. -0.02 min

Lab File: VL026198.D

Acq: 10 Oct 2015 5:34

Instrument :

MSVOA_L

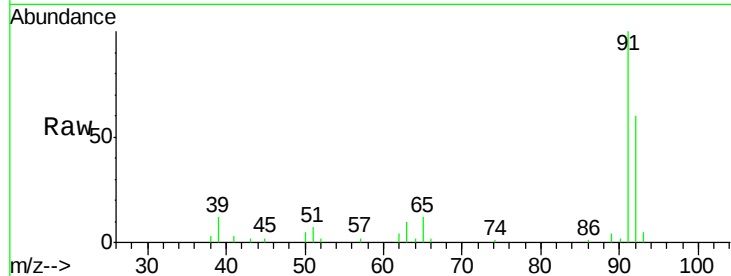
ClientSampleId :

Tot Ion: 91 Resp: 60629

Ion Ratio Lower Upper

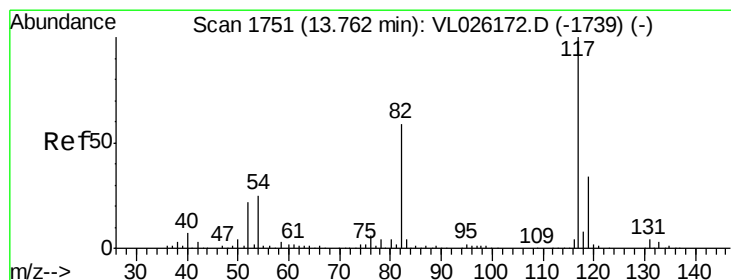
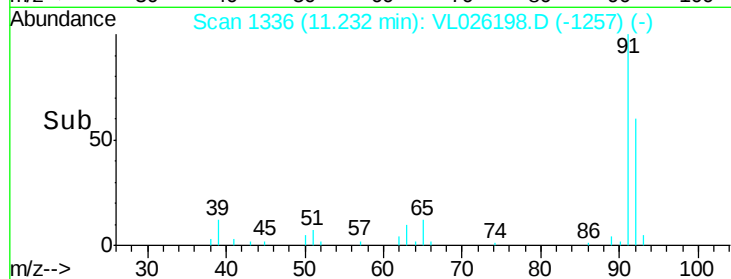
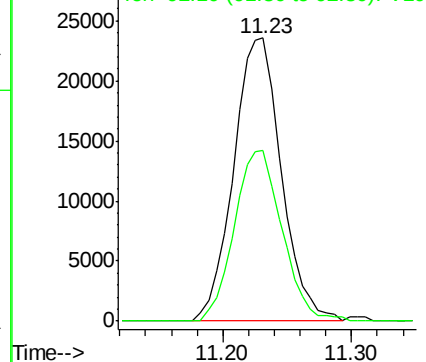
91 100

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: 13.73 min Scan# 1746

Delta R.T. -0.03 min

Lab File: VL026198.D

Acq: 10 Oct 2015 5:34

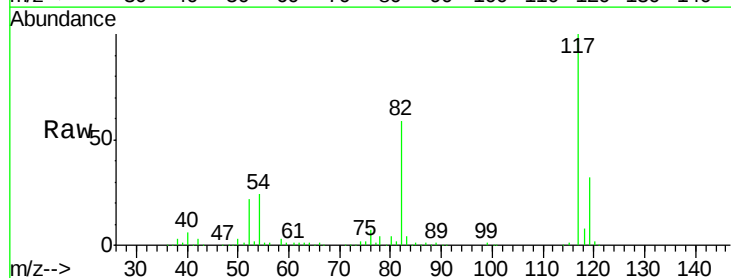
Tgt Ion: 117 Resp: 1634452

Ion Ratio Lower Upper

117 100

82 59.9 47.7 71.5

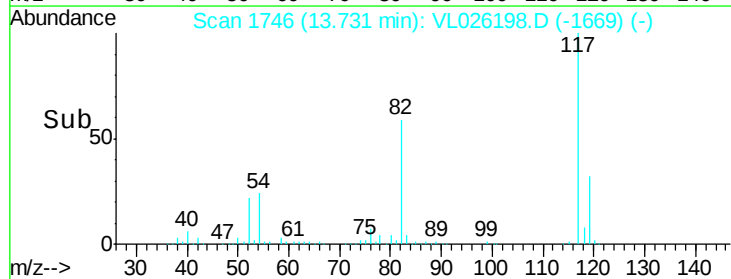
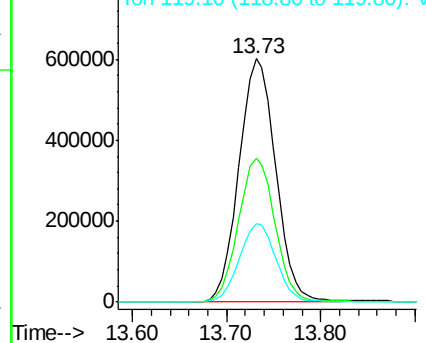
119 32.6 43.7 65.5#

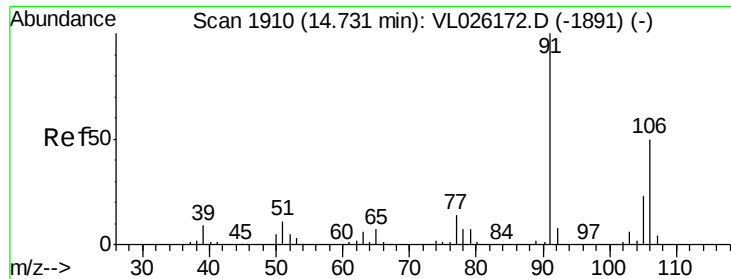


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

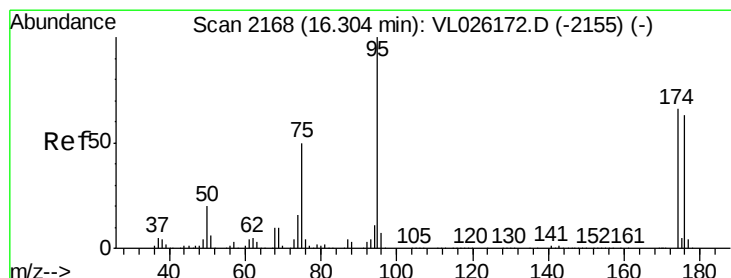
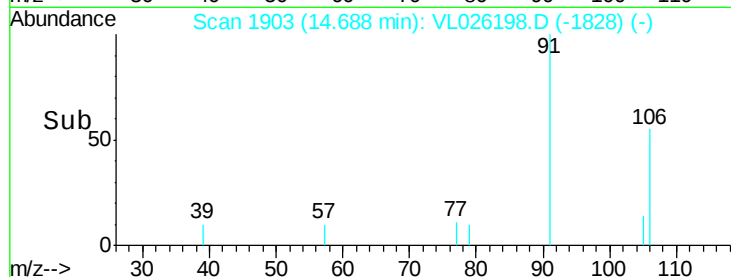
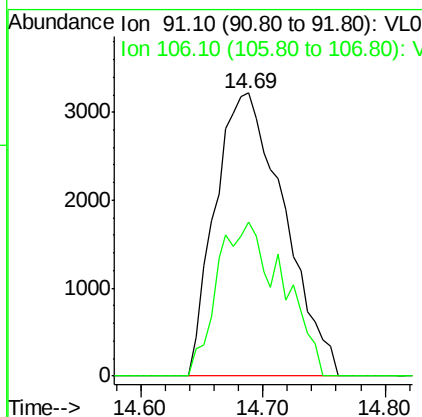
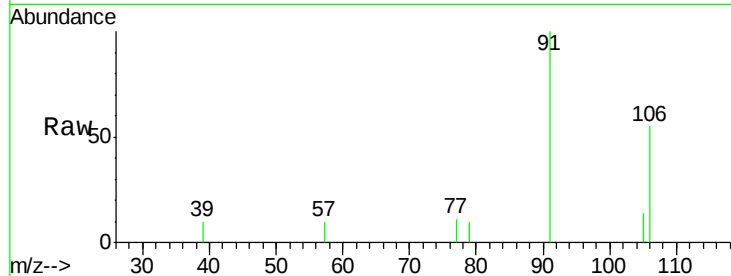




#59
m/p-Xylene
Concen: 0.07 ppbv
RT: 14.69 min Scan# 1903
Delta R.T. -0.04 min
Lab File: VL026198.D
Acq: 10 Oct 2015 5:34

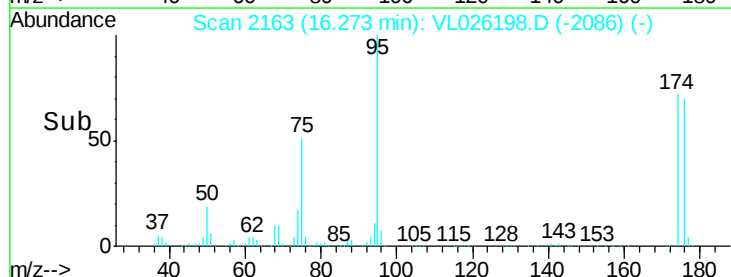
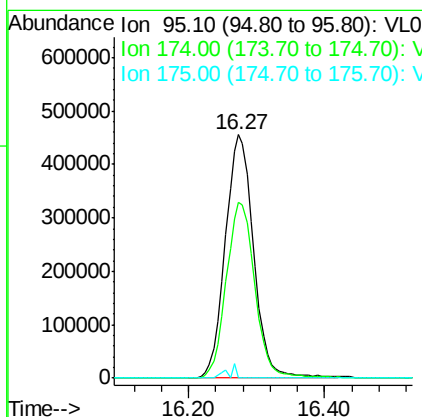
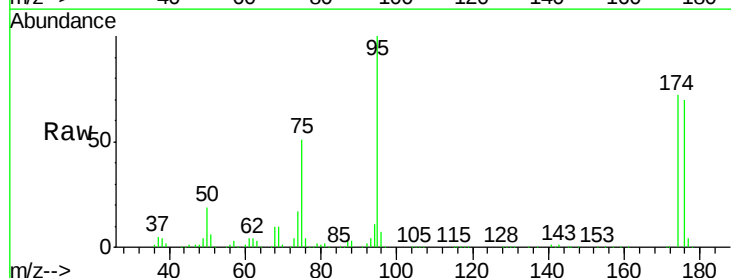
Instrument :
MSVOA_L
ClientSampled :

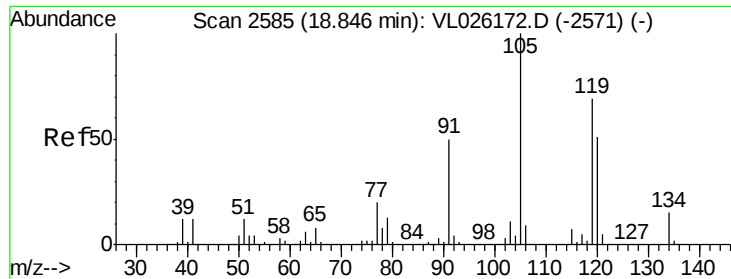
Tot Ion: 91 Resp: 12572
Ion Ratio Lower Upper
91 100
106 51.7 40.2 60.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.47 ppbv
RT: 16.27 min Scan# 2163
Delta R.T. -0.03 min
Lab File: VL026198.D
Acq: 10 Oct 2015 5:34

Tgt Ion: 95 Resp: 1313294
Ion Ratio Lower Upper
95 100
174 73.5 52.2 78.4
175 1.7 3.9 5.9#

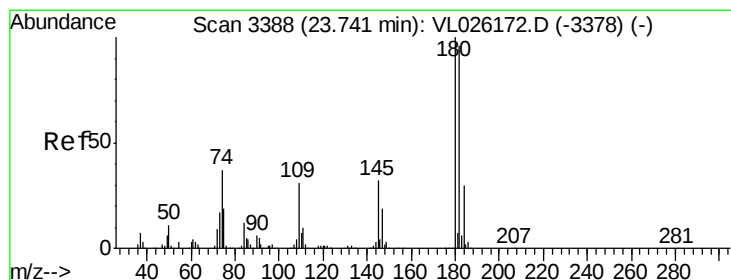
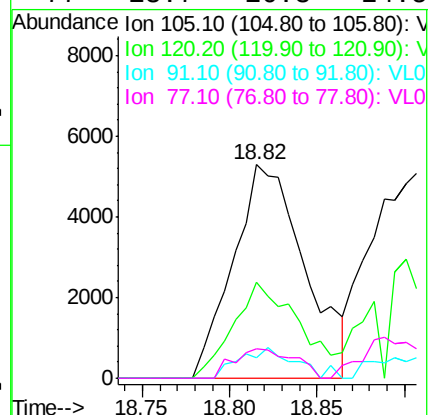
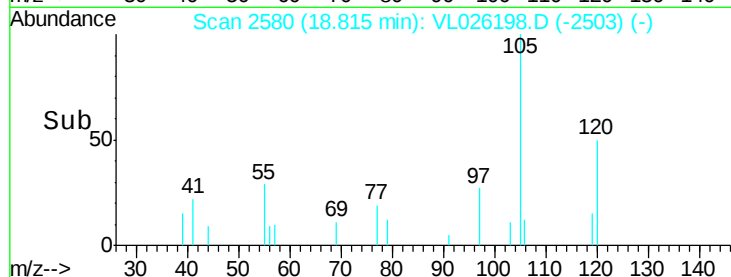
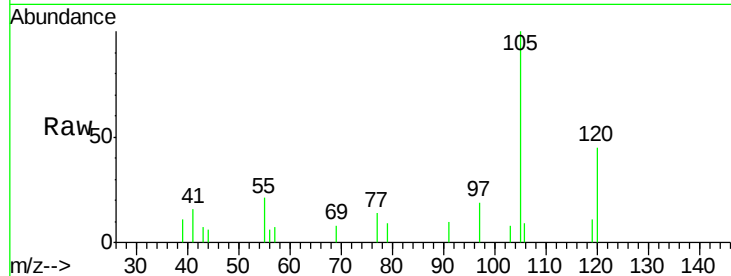




#74
 1,2,4-Trimethylbenzene
 Concen: 0.07 ppbv
 RT: 18.82 min Scan# 2580
 Delta R.T. -0.03 min
 Lab File: VL026198.D
 Acq: 10 Oct 2015 5:34

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
105	100		
120	44.9	41.1	61.7
91	9.7	39.8	59.6#
77	13.7	16.3	24.5#



#81
 1,2,4-Trichlorobenzene
 Concen: 0.04 ppbv
 RT: 23.22 min Scan# 3302
 Delta R.T. -0.52 min
 Lab File: VL026198.D
 Acq: 10 Oct 2015 5:34

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.4	114.6#
184	0.0	24.0	36.0#

