

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026675.D
 Acq On : 12 Jan 2016 15:20
 Operator : SY/AP
 Sample : H1064-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 13 03:01:50 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	826460	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	8.35	114	2402007	10.00	ppbv	0.04
55) Chlorobenzene-d5	13.78	117	3035199	10.00	ppbv	0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.32	95	2513586	10.39	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

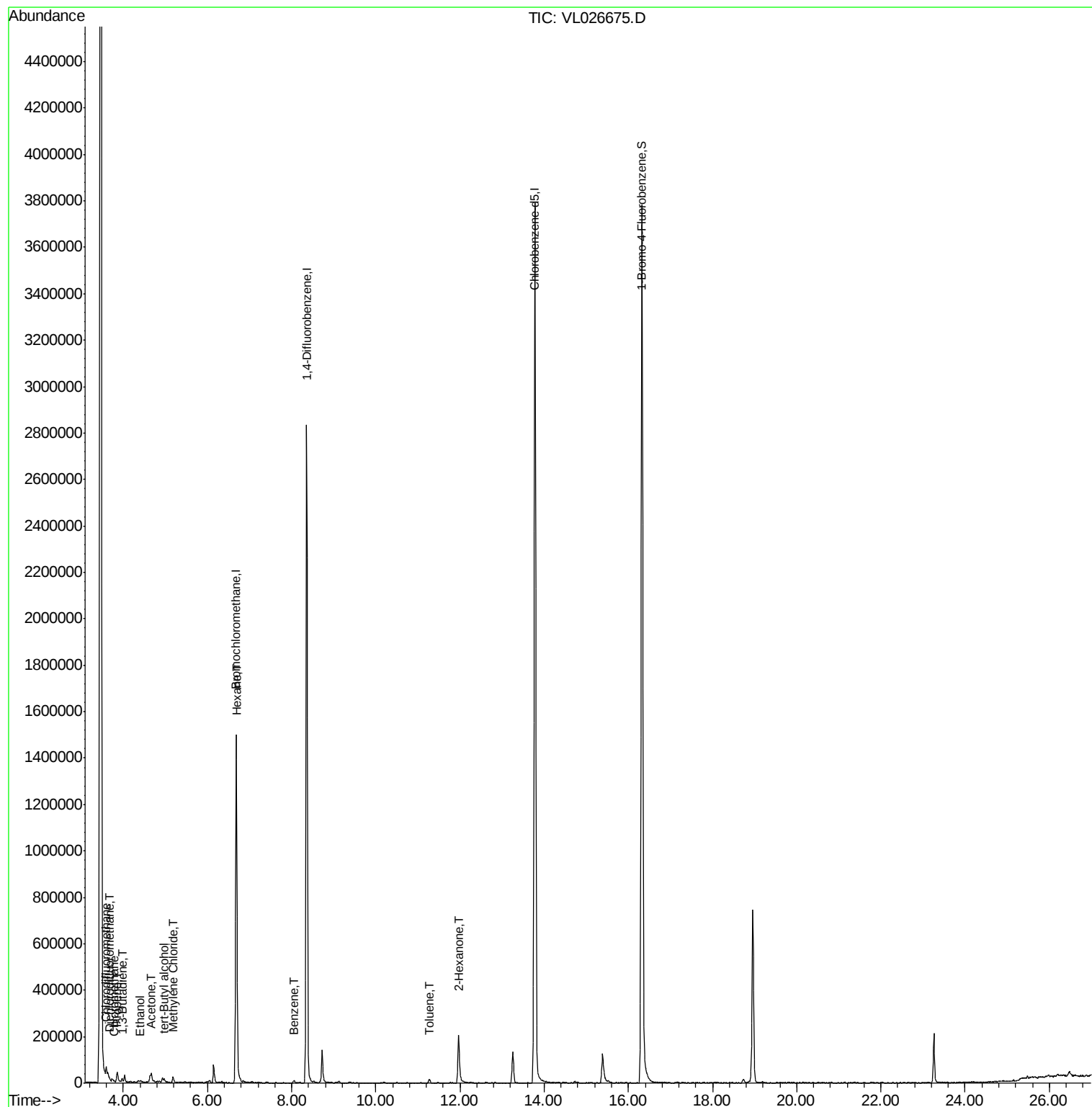
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	12162	0.06	ppbv #	86
3) Chlorodifluoromethane	3.59	51	42252	0.38	ppbv	96
4) Chloromethane	3.78	50	3665	0.07	ppbv	99
9) Propene	3.85	41	16769	0.42	ppbv	89
13) Ethanol	4.40	45	3751	0.50	ppbv	80
15) Acetone	4.67	43	46483	0.34	ppbv #	58
16) 1,3-Butadiene	3.98	39	2844	0.05	ppbv #	32
17) tert-Butyl alcohol	4.97	59	6159	0.06	ppbv #	63
20) Methylene Chloride	5.18	84	9385	0.17	ppbv #	82
26) Hexane	6.70	57	7074	0.07	ppbv #	44
36) Benzene	8.06	78	10390	0.04	ppbv	93
51) 2-Hexanone	11.97	43	50162	0.30	ppbv #	46
53) Toluene	11.27	91	15184	0.04	ppbv	95

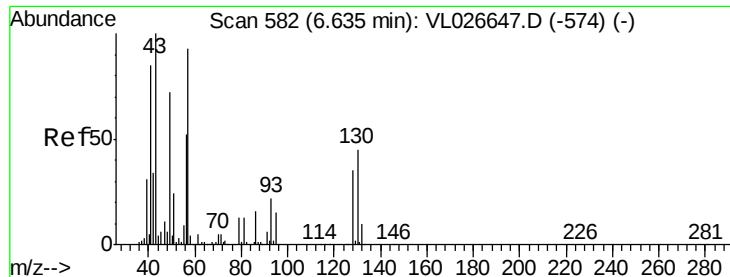
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Jan 13 03:01:50 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
QLast Update : Mon Jan 11 17:14:02 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. 0.05 min

Lab File: VL026675.D

Acq: 12 Jan 2016 15:20

Instrument :
MSVOA_L
ClientSampled :

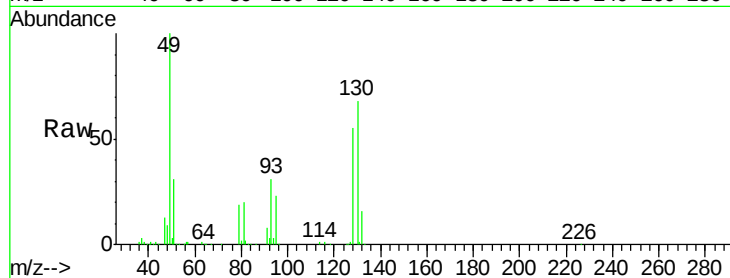
Tot Ion: 49 Resp: 826460

Ion Ratio Lower Upper

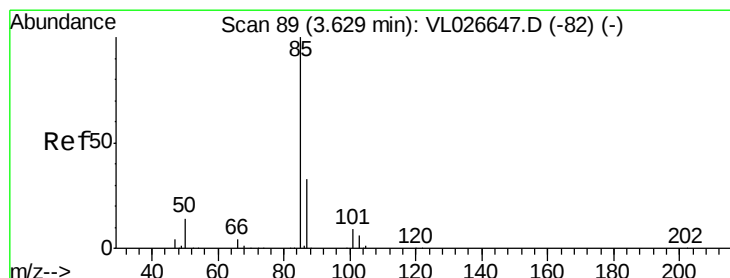
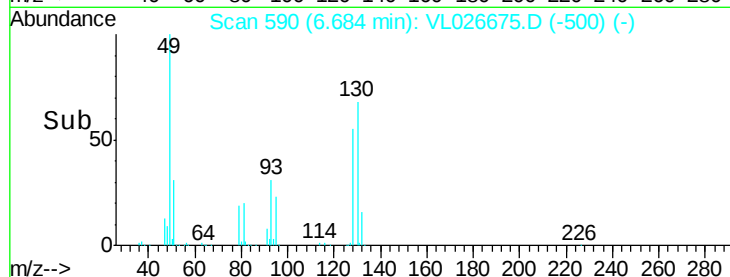
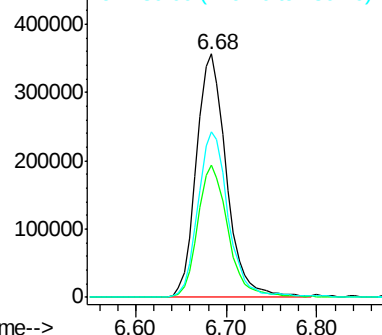
49 100

128 54.9 25.9 77.7

130 69.9 33.6 100.8



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.06 ppbv

RT: 3.67 min Scan# 95

Delta R.T. 0.04 min

Lab File: VL026675.D

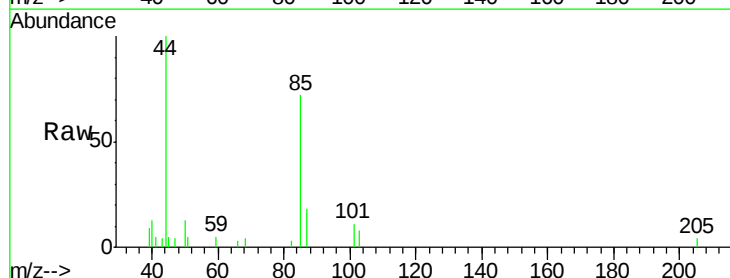
Acq: 12 Jan 2016 15:20

Tgt Ion: 85 Resp: 12162

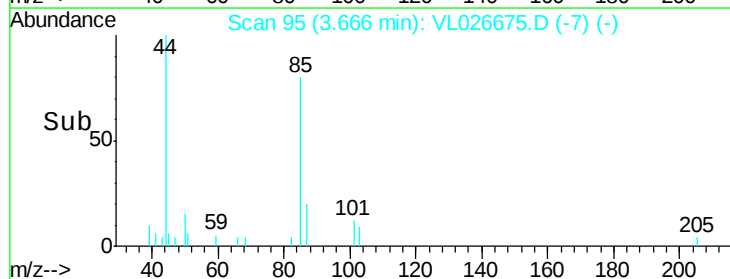
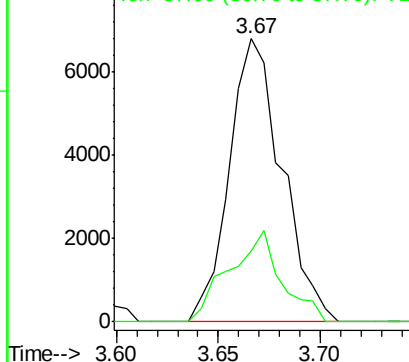
Ion Ratio Lower Upper

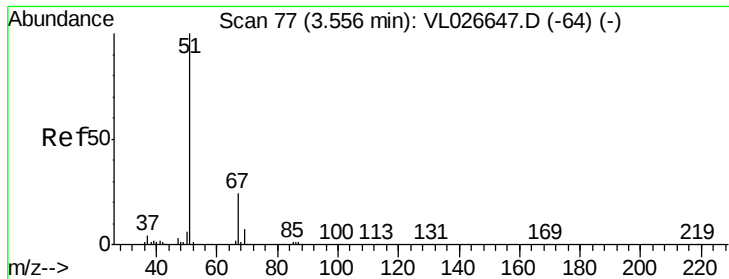
85 100

87 24.9 26.4 39.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.38 ppbv

RT: 3.59 min Scan# 83

Delta R.T. 0.04 min

Lab File: VL026675.D

Acq: 12 Jan 2016 15:20

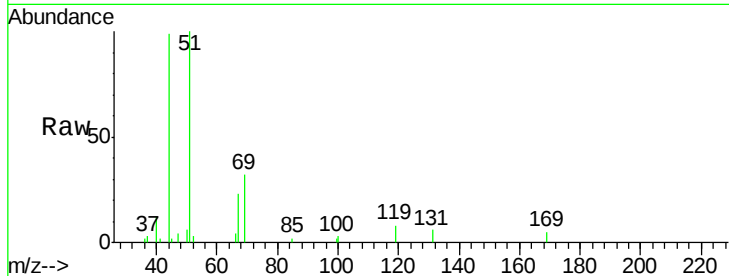
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 42252

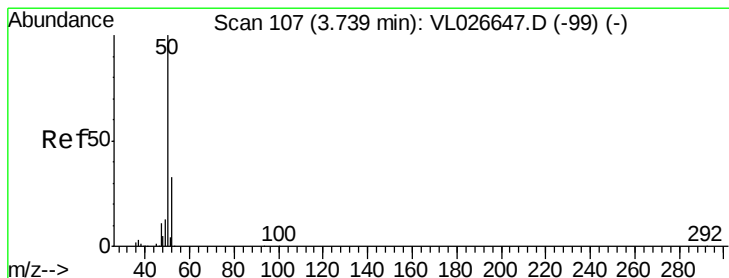
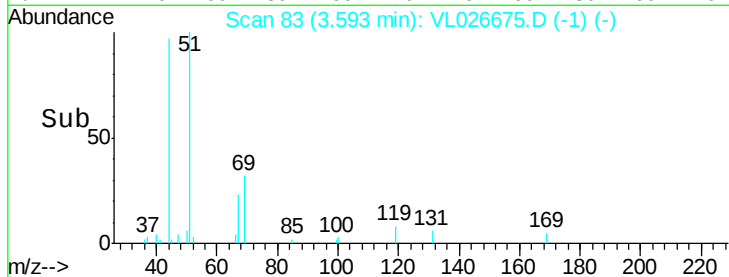
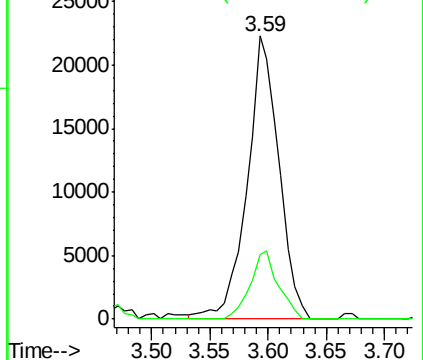
Ion Ratio Lower Upper

51 100

67 21.4 18.6 28.0



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.07 ppbv

RT: 3.78 min Scan# 114

Delta R.T. 0.04 min

Lab File: VL026675.D

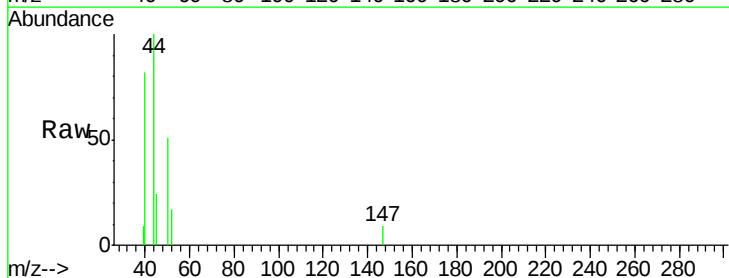
Acq: 12 Jan 2016 15:20

Tgt Ion: 50 Resp: 3665

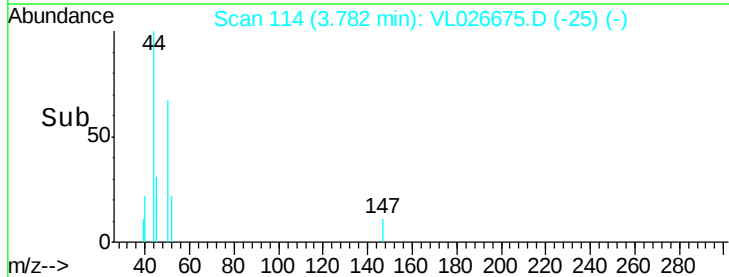
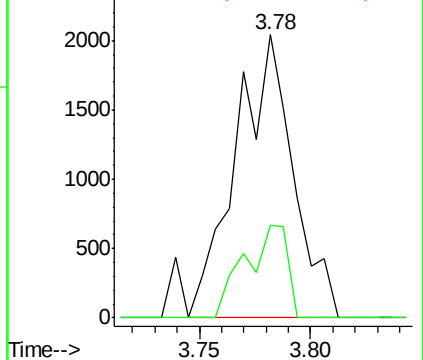
Ion Ratio Lower Upper

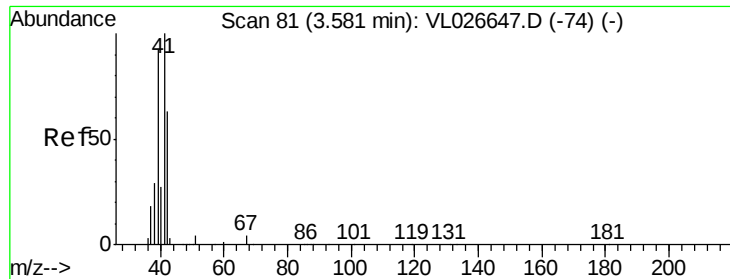
50 100

52 32.6 26.7 40.1



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.42 ppbv

RT: 3.85 min Scan# 125

Delta R.T. 0.27 min

Lab File: VL026675.D

Acq: 12 Jan 2016 15:20

Instrument :

MSVOA_L

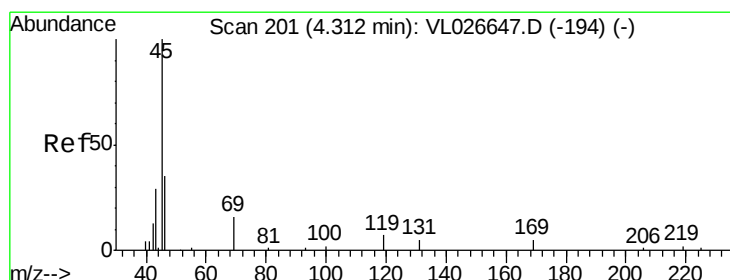
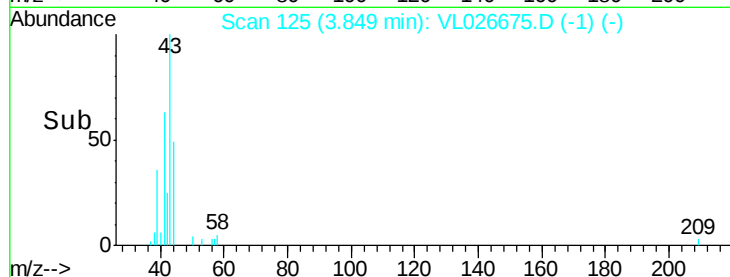
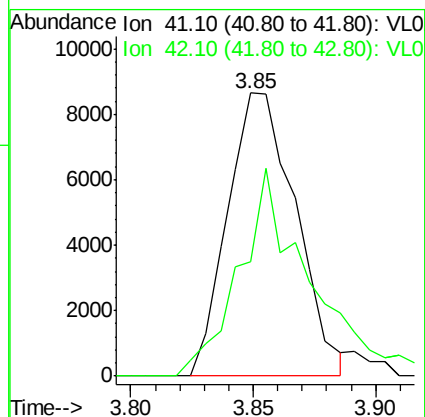
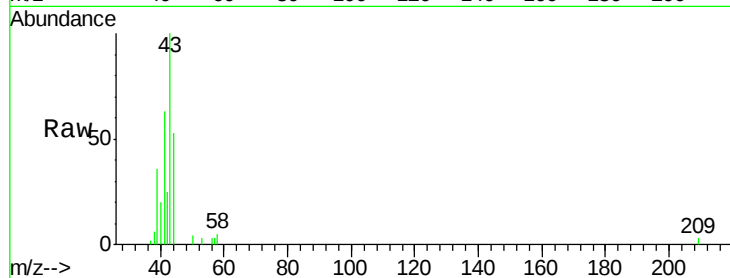
ClientSampleId :

Tot Ion: 41 Resp: 16769

Ion Ratio Lower Upper

41 100

42 76.2 53.6 80.4



#13

Ethanol

Concen: 0.50 ppbv

RT: 4.40 min Scan# 215

Delta R.T. 0.09 min

Lab File: VL026675.D

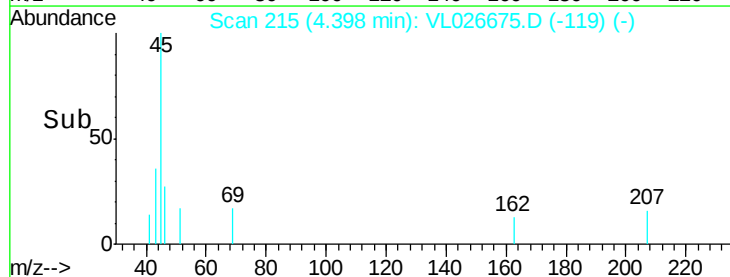
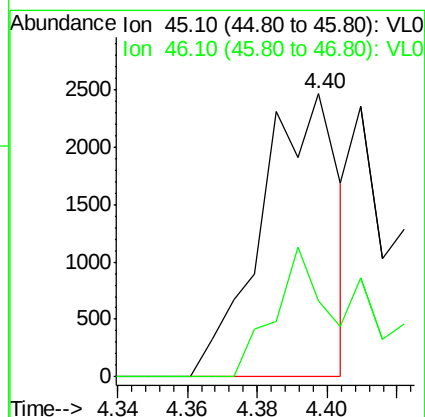
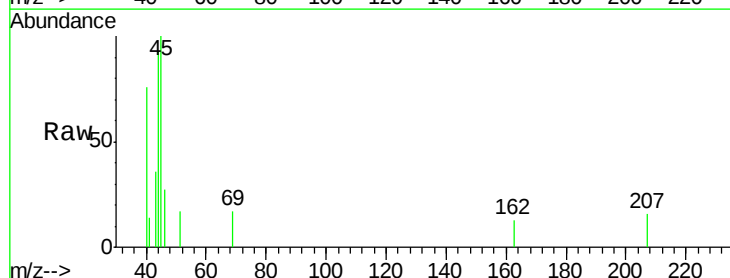
Acq: 12 Jan 2016 15:20

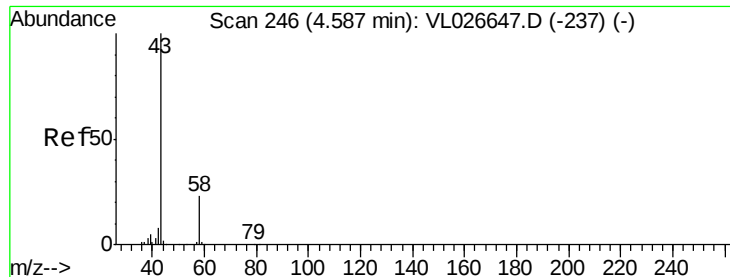
Tgt Ion: 45 Resp: 3751

Ion Ratio Lower Upper

45 100

46 54.5 16.7 66.7





#15

Acetone

Concen: 0.34 ppbv

RT: 4.67 min Scan# 259

Delta R.T. 0.08 min

Lab File: VL026675.D

Acq: 12 Jan 2016 15:20

Instrument :

MSVOA_L

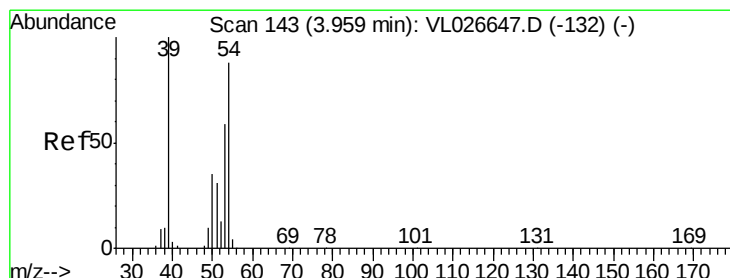
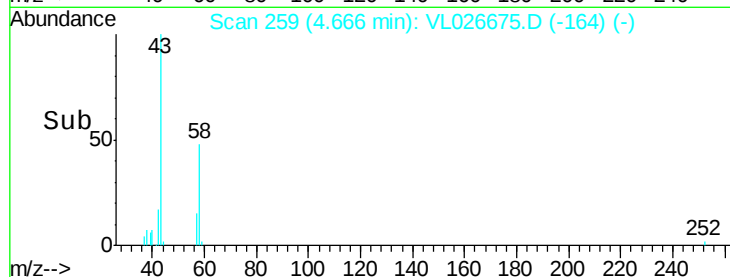
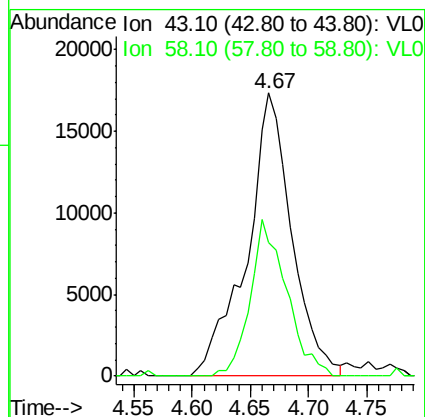
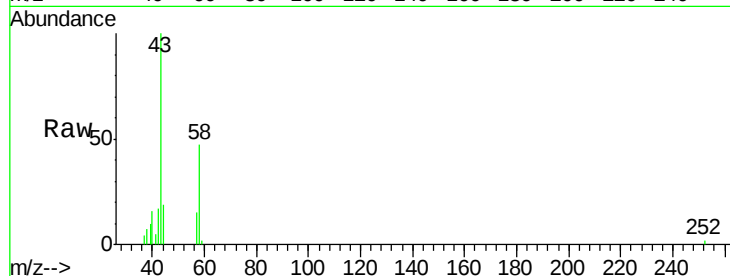
ClientSampleId :

Tot Ion: 43 Resp: 46483

Ion Ratio Lower Upper

43 100

58 44.6 19.2 28.8#



#16

1,3-Butadiene

Concen: 0.05 ppbv

RT: 3.98 min Scan# 147

Delta R.T. 0.02 min

Lab File: VL026675.D

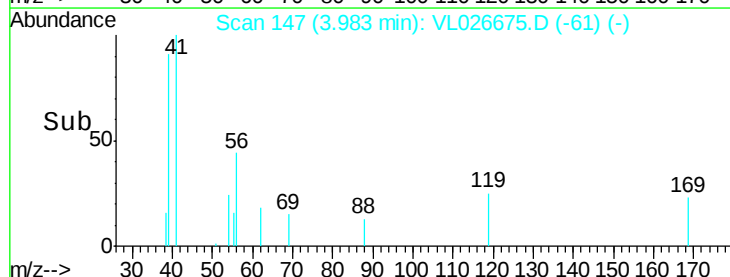
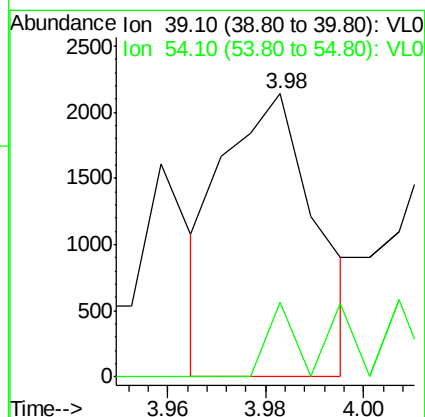
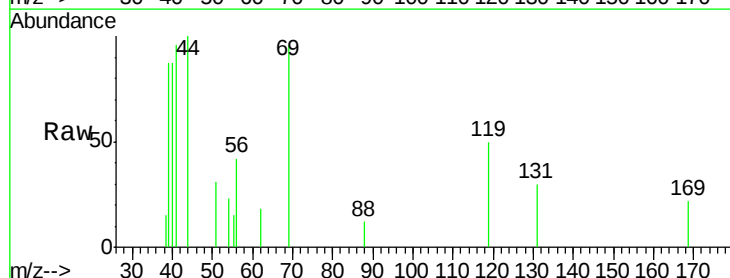
Acq: 12 Jan 2016 15:20

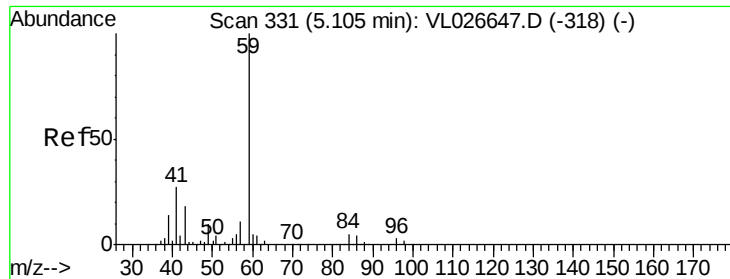
Tgt Ion: 39 Resp: 2844

Ion Ratio Lower Upper

39 100

54 22.0 66.6 100.0#



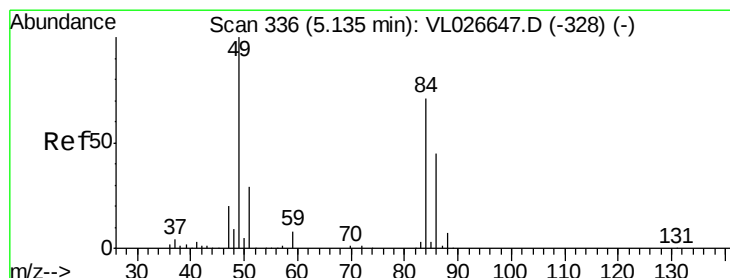
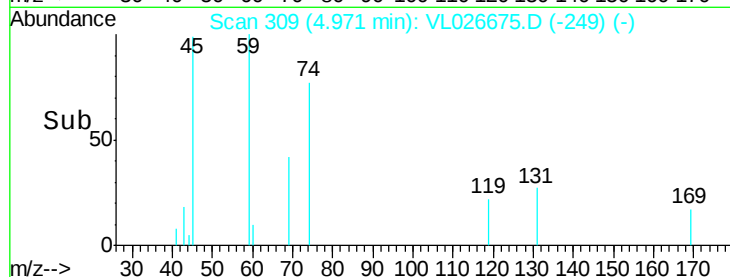
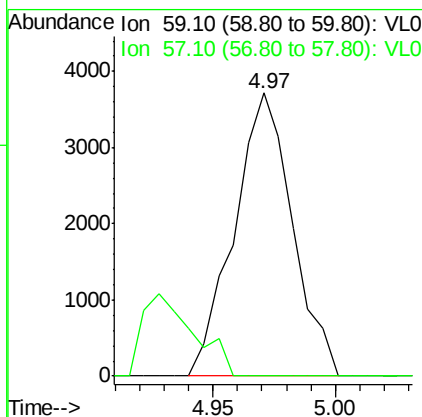
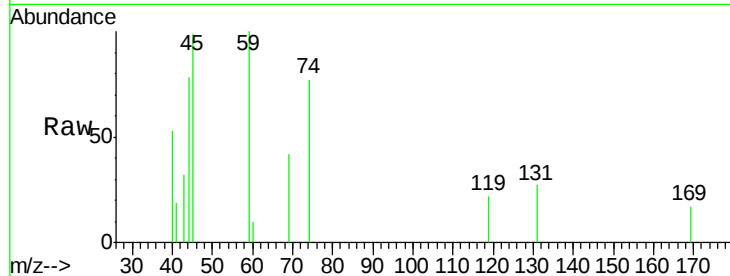


#17

tert-Butyl alcohol
 Concen: 0.06 ppbv
 RT: 4.97 min Scan# 309
 Delta R.T. -0.13 min
 Lab File: VL026675.D
 Acq: 12 Jan 2016 15:20

Instrument :
 MSVOA_L
 ClientSampleId :

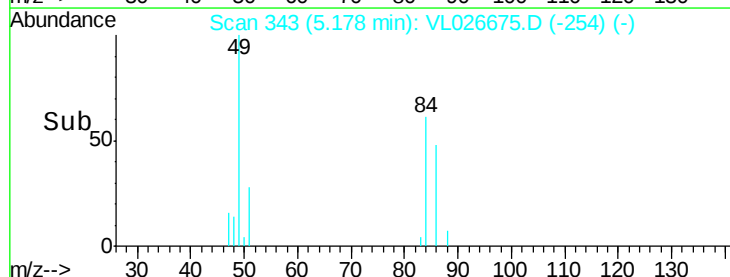
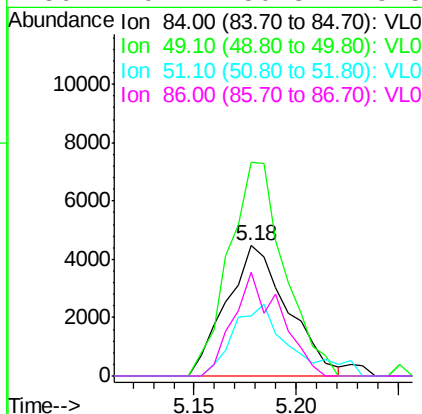
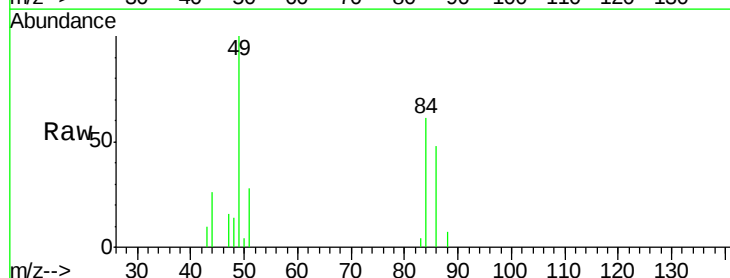
Tot Ion: 59 Resp: 6159
 Ion Ratio Lower Upper
 59 100
 57 25.5 9.0 13.6#

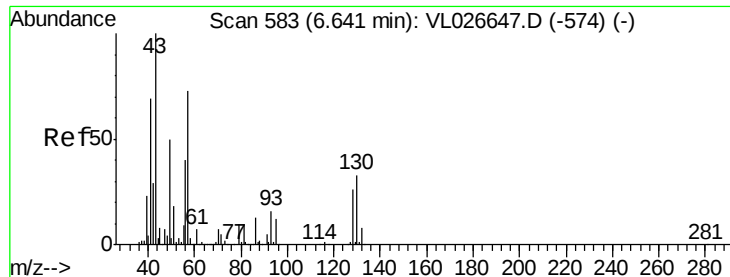


#20

Methylene Chloride
 Concen: 0.17 ppbv
 RT: 5.18 min Scan# 343
 Delta R.T. 0.04 min
 Lab File: VL026675.D
 Acq: 12 Jan 2016 15:20

Tgt Ion: 84 Resp: 9385
 Ion Ratio Lower Upper
 84 100
 49 164.0 112.3 168.5
 51 46.7 32.5 48.7
 86 79.2 50.3 75.5#





#26

Hexane

Concen: 0.07 ppbv

RT: 6.70 min Scan# 592

Delta R.T. 0.05 min

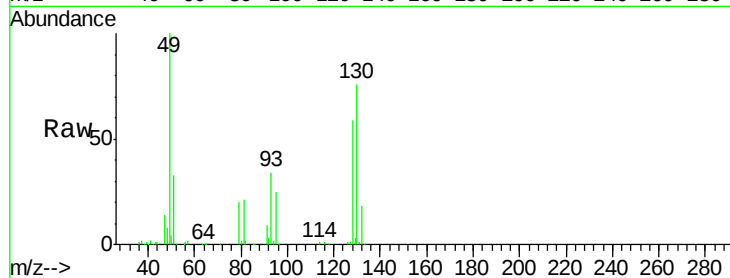
Lab File: VL026675.D

Acq: 12 Jan 2016 15:20

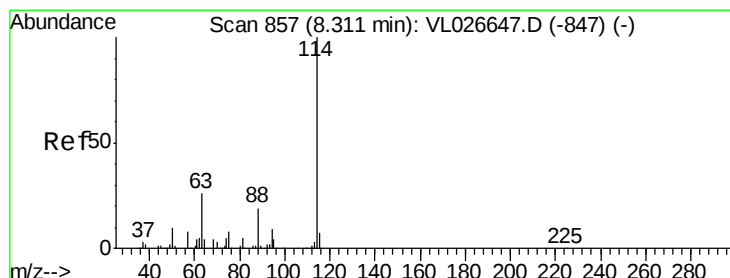
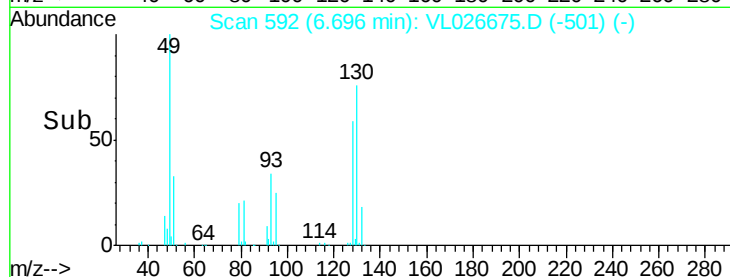
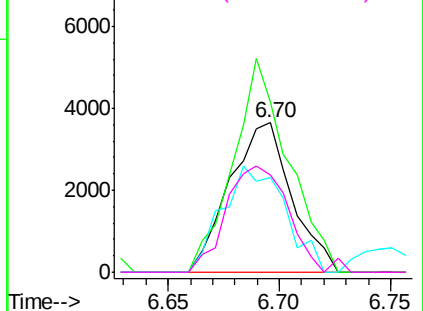
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 7074

Ion	Ratio	Lower	Upper
57	100		
41	126.6	74.8	112.2#
43	88.3	161.5	242.3#
56	72.2	44.4	66.6#



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: 8.35 min Scan# 864

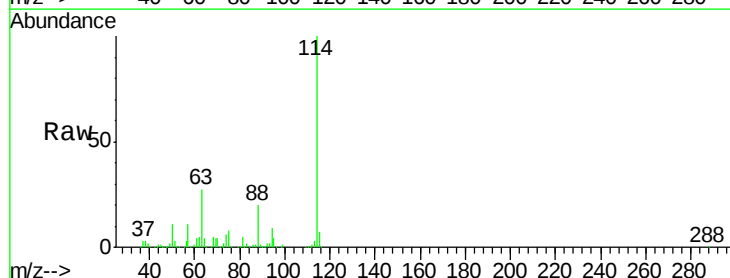
Delta R.T. 0.04 min

Lab File: VL026675.D

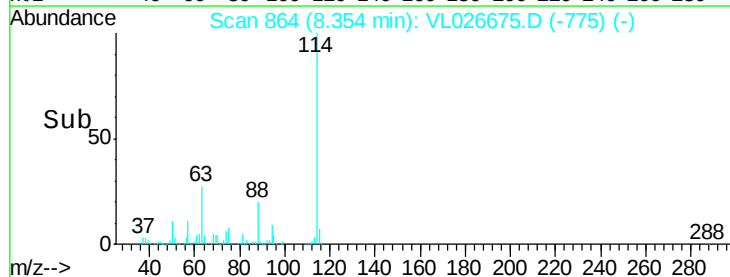
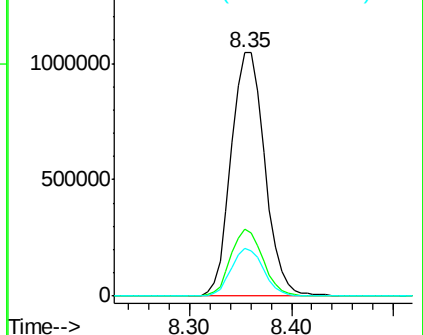
Acq: 12 Jan 2016 15:20

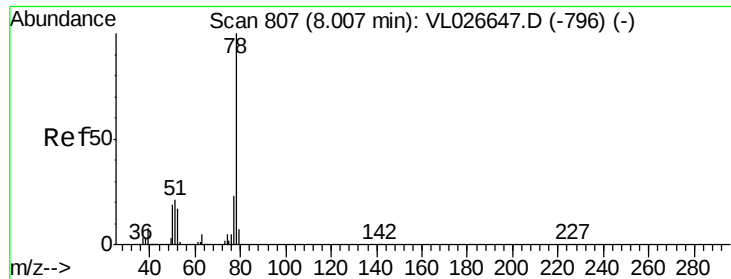
Tgt Ion: 114 Resp: 2402007

Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.7	32.5
88	19.1	15.2	22.8



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

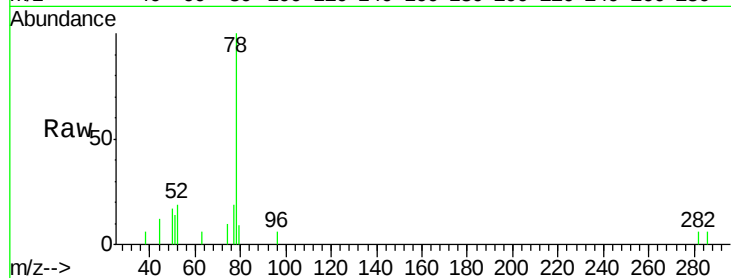




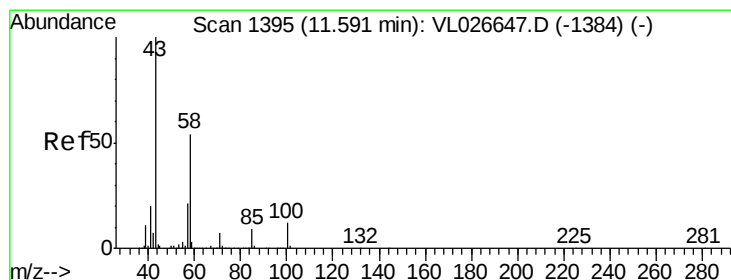
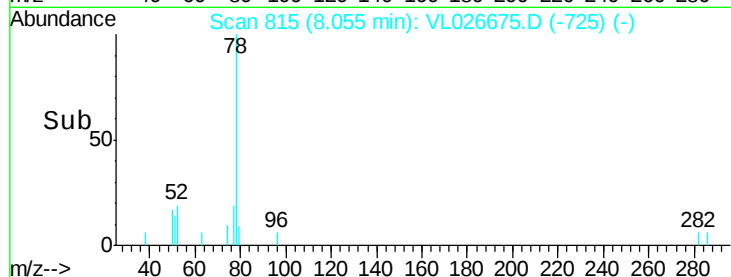
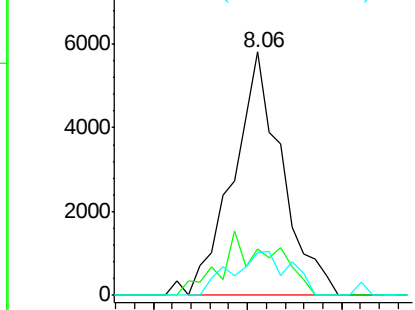
#36
Benzene
Concen: 0.04 ppbv
RT: 8.06 min Scan# 815
Delta R.T. 0.05 min
Lab File: VL026675.D
Acq: 12 Jan 2016 15:20

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 78 Resp: 10390
Ion Ratio Lower Upper
78 100
77 19.0 18.5 27.7
50 17.3 15.4 23.2

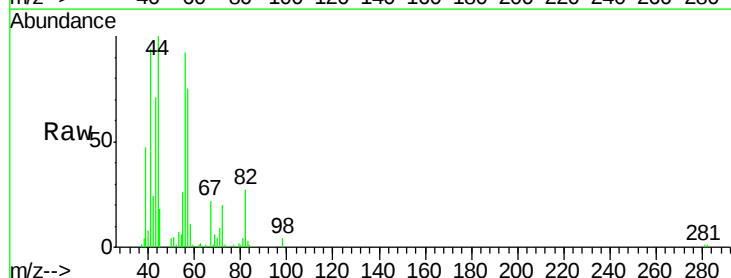


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

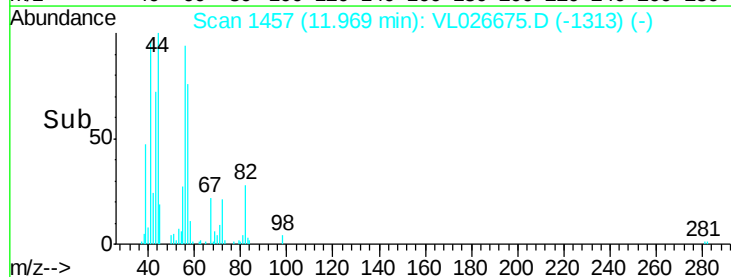
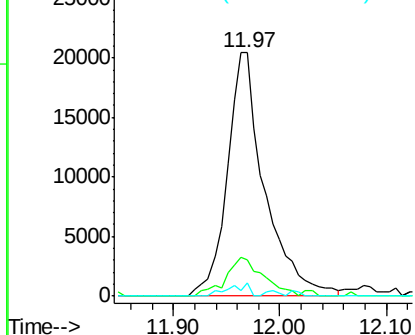


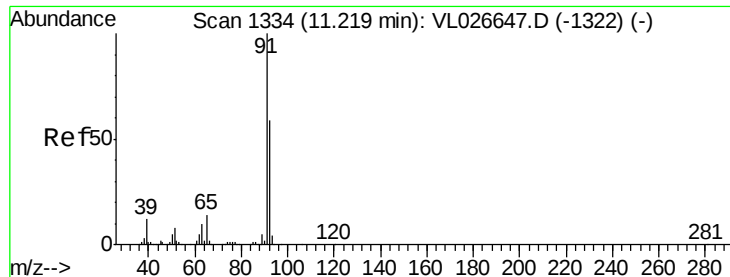
#51
2-Hexanone
Concen: 0.30 ppbv
RT: 11.97 min Scan# 1457
Delta R.T. 0.38 min
Lab File: VL026675.D
Acq: 12 Jan 2016 15:20

Tgt Ion: 43 Resp: 50162
Ion Ratio Lower Upper
43 100
58 16.6 44.9 67.3#
98 4.2 0.2 0.2#



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





#53

Toluene

Concen: 0.04 ppbv

RT: 11.27 min Scan# 1342

Delta R.T. 0.05 min

Lab File: VL026675.D

Acq: 12 Jan 2016 15:20

Instrument :

MSVOA_L

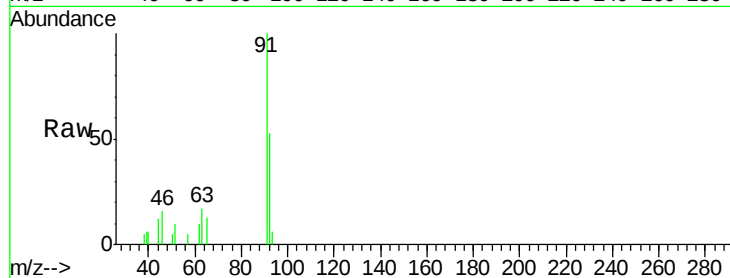
ClientSampleId :

Tot Ion: 91 Resp: 15184

Ion Ratio Lower Upper

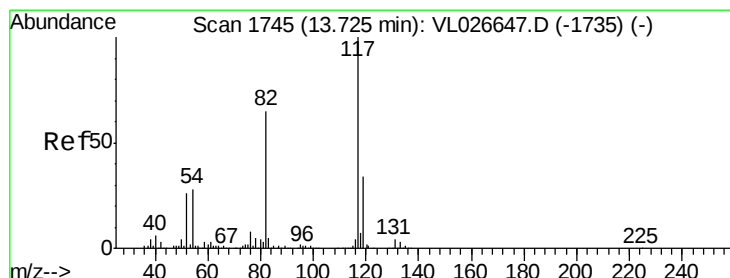
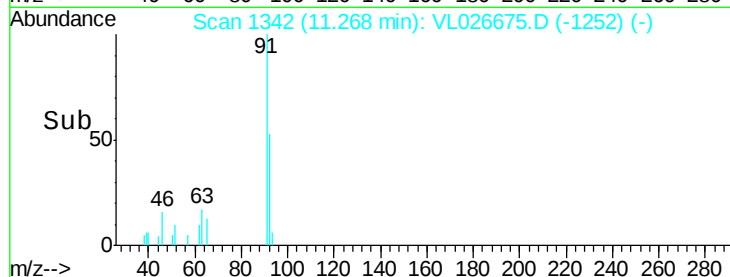
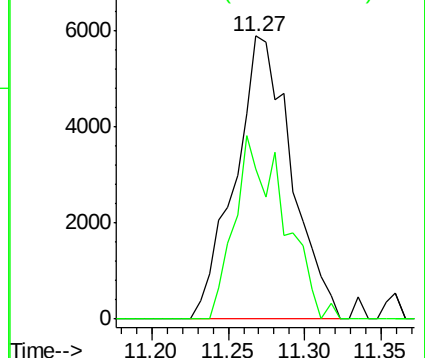
91 100

92 56.3 48.2 72.4



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: 13.78 min Scan# 1754

Delta R.T. 0.05 min

Lab File: VL026675.D

Acq: 12 Jan 2016 15:20

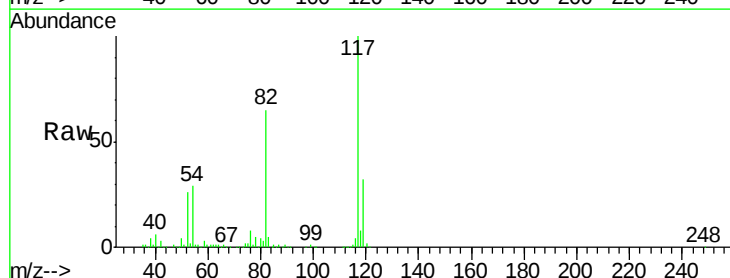
Tgt Ion: 117 Resp: 3035199

Ion Ratio Lower Upper

117 100

82 67.3 49.7 74.5

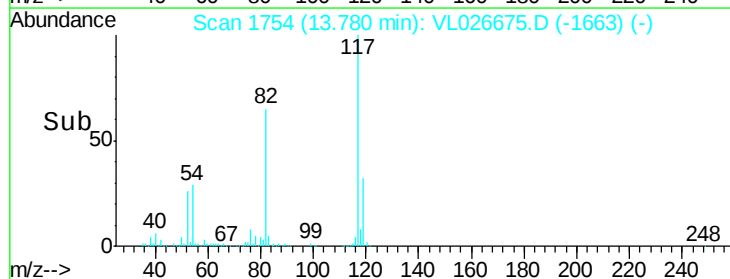
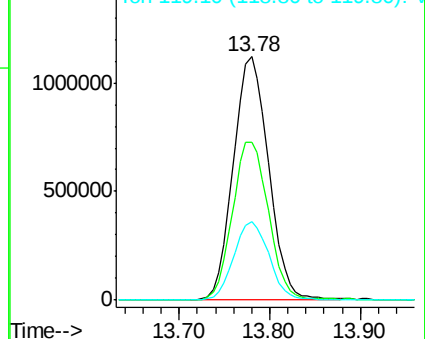
119 32.6 43.8 65.8#

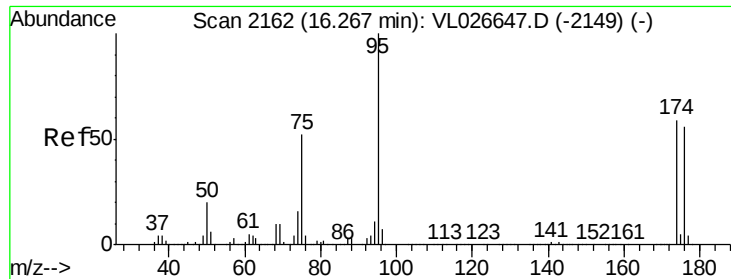


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.39 ppbv

RT: 16.32 min Scan# 2171

Delta R.T. 0.05 min

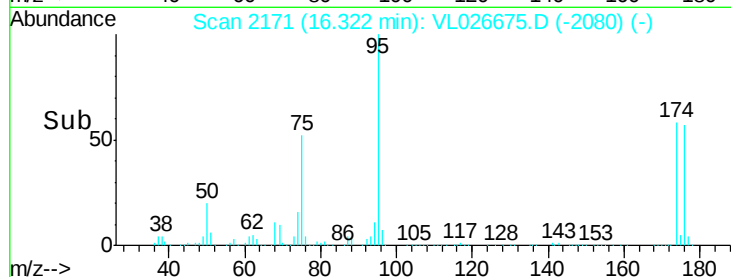
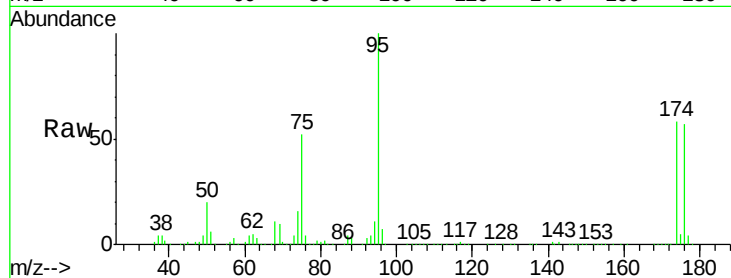
Lab File: VL026675.D

Acq: 12 Jan 2016 15:20

Instrument :

MSVOA_L

ClientSampleId :



Tot Ion: 95 Resp: 2513586

Ion Ratio Lower Upper

95 100

174 59.7 47.8 71.8

175 4.4 3.6 5.4

