

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026846.D
 Acq On : 10 Feb 2016 8:52
 Operator : SY/AP
 Sample : H1404-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 11 01:17:11 2016
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 03:14:04 2016
 QLast Update : Wed Feb 10 03:14:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	1916780	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.36	114	5801895	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.79	117	5765403	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.33	95	4120209	9.95	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

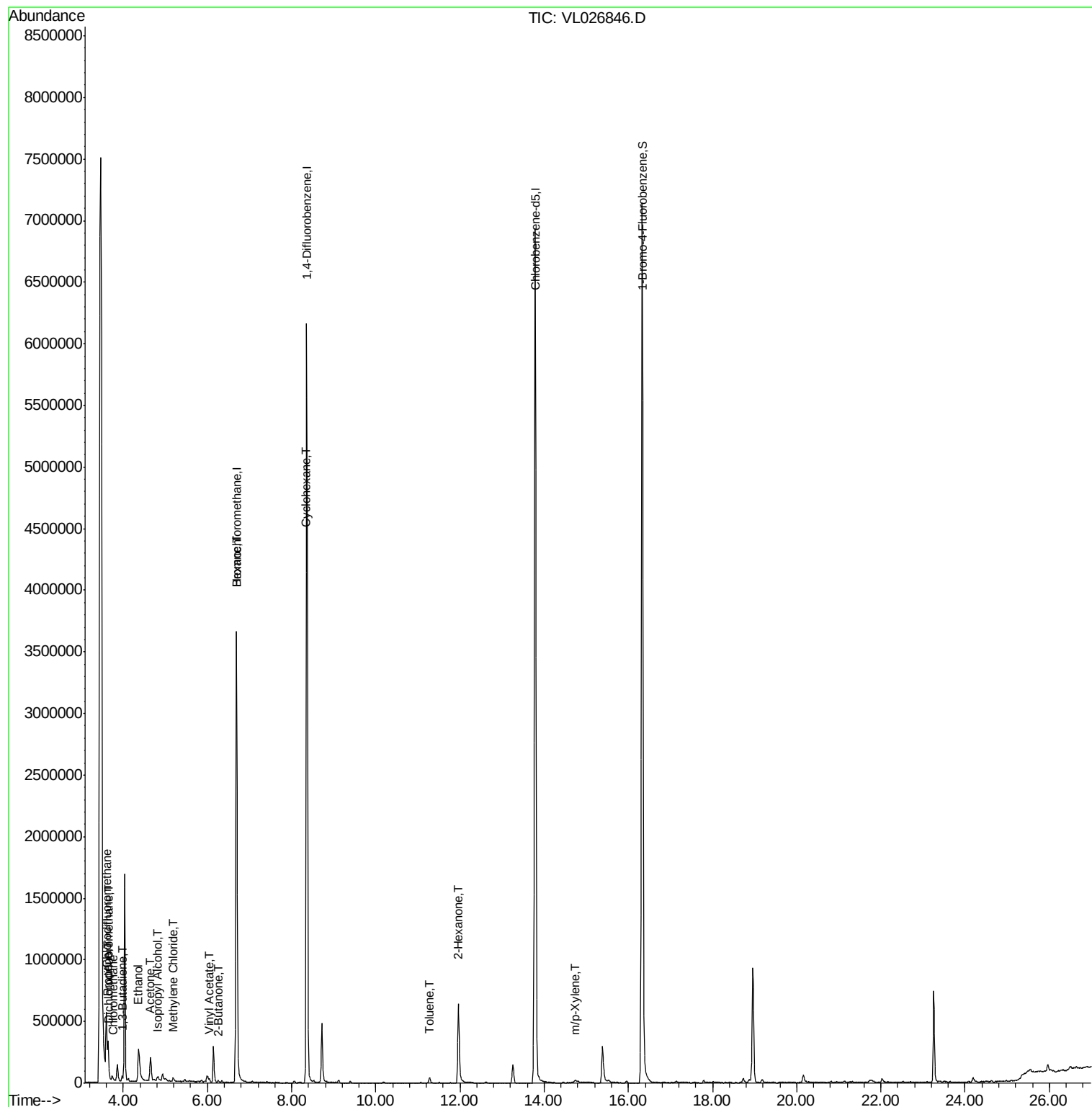
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.67	85	22462	0.05	ppbv	98
3) Chlorodifluoromethane	3.60	51	588611	1.89	ppbv	97
4) Chloromethane	3.78	50	7353	0.06	ppbv	93
9) Propene	3.64	41	77351	0.92	ppbv #	69
13) Ethanol	4.36	45	479412	33.18	ppbv	98
15) Acetone	4.65	43	182684	0.69	ppbv #	59
16) 1,3-Butadiene	3.97	39	7628	0.07	ppbv #	3
19) Isopropyl Alcohol	4.82	45	55752	0.59	ppbv #	1
20) Methylene Chloride	5.18	84	16320	0.12	ppbv	90
23) Vinyl Acetate	6.04	43	21027	0.06	ppbv #	59
26) Hexane	6.70	57	14349	0.06	ppbv	83
30) Cyclohexane	8.34	84	12881	0.07	ppbv #	1
34) 2-Butanone	6.26	43	16285	0.06	ppbv #	70
51) 2-Hexanone	11.96	43	161726	0.58	ppbv #	27
53) Toluene	11.27	91	43566	0.08	ppbv	99
59) m/p-Xylene	14.73	91	24236	0.04	ppbv	96

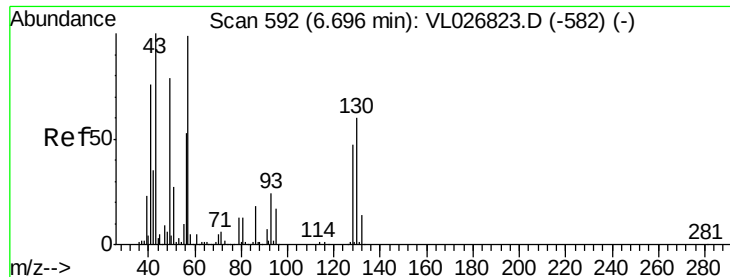
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
Data File : VL026846.D
Acq On : 10 Feb 2016 8:52
Operator : SY/AP
Sample : H1404-02DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Feb 11 01:17:11 2016
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 03:14:04 2016
QLast Update : Wed Feb 10 03:14:04 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. -0.01 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :
MSVOA_L
ClientSampleId :

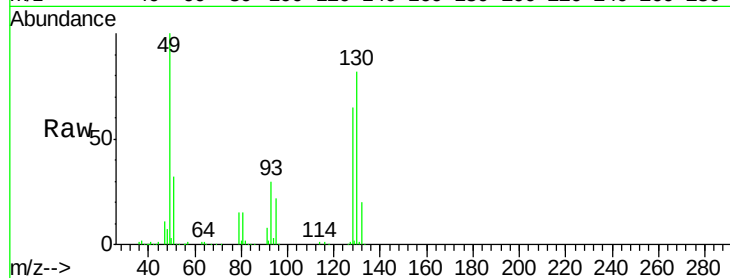
Tgt Ion: 49 Resp: 1916780

Ion Ratio Lower Upper

49 100

128 66.7 29.7 89.1

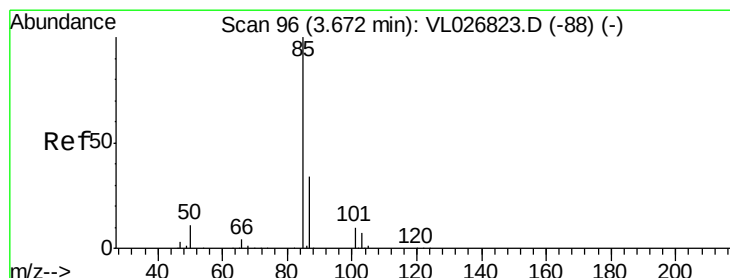
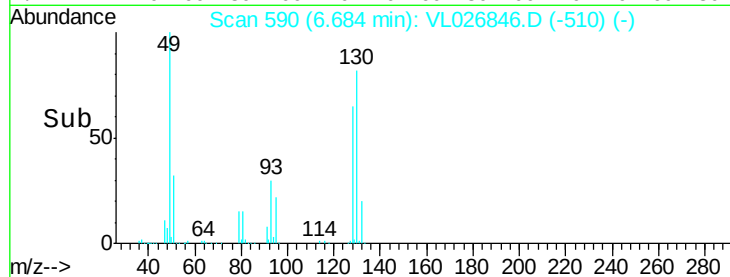
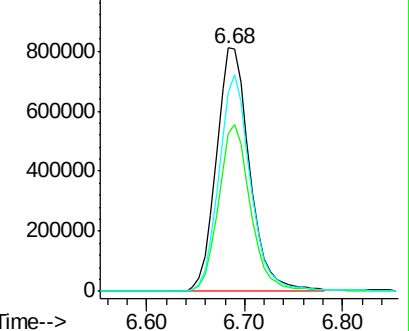
130 85.7 38.3 114.8



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: 0.05 ppbv

RT: 3.67 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL026846.D

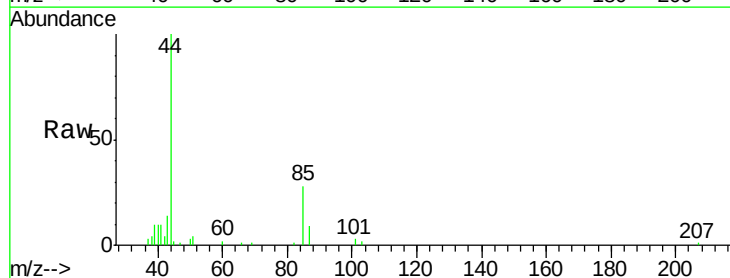
Acq: 10 Feb 2016 8:52

Tgt Ion: 85 Resp: 22462

Ion Ratio Lower Upper

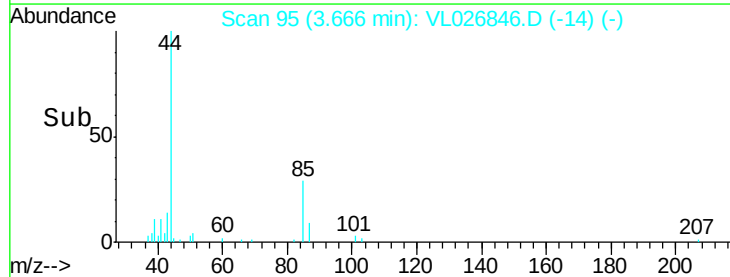
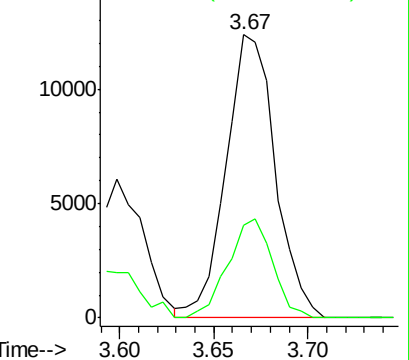
85 100

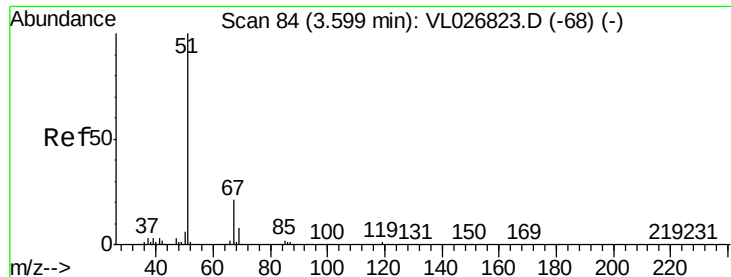
87 32.7 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.89 ppbv

RT: 3.60 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

MSVOA_L

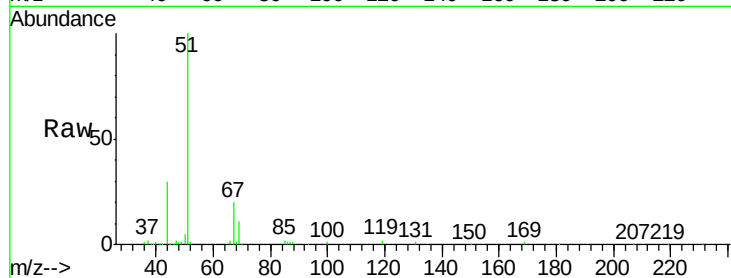
ClientSampleId :

Tgt Ion: 51 Resp: 588611

Ion Ratio Lower Upper

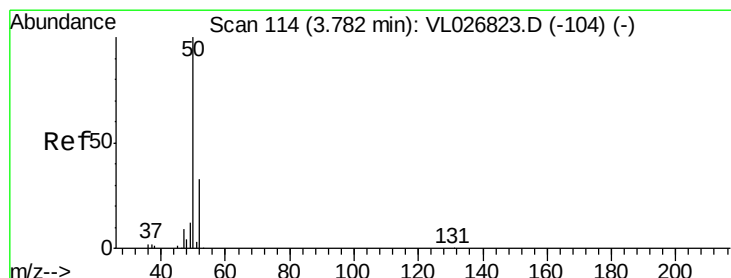
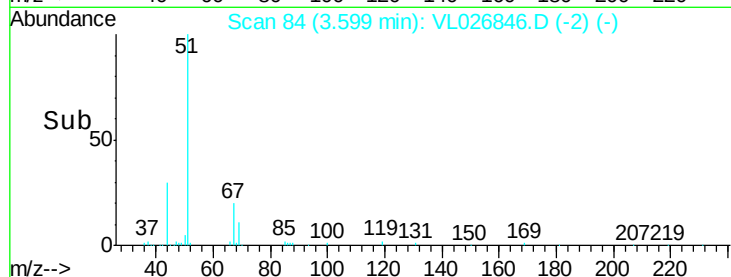
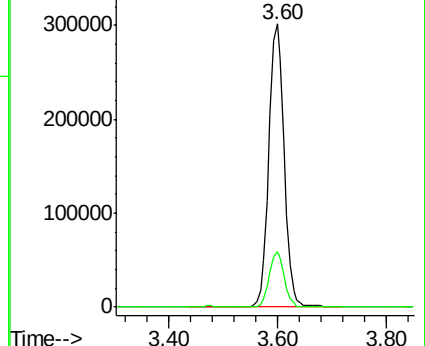
51 100

67 19.1 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.06 ppbv

RT: 3.78 min Scan# 113

Delta R.T. -0.01 min

Lab File: VL026846.D

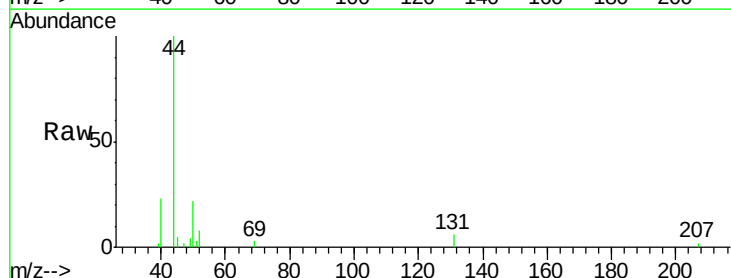
Acq: 10 Feb 2016 8:52

Tgt Ion: 50 Resp: 7353

Ion Ratio Lower Upper

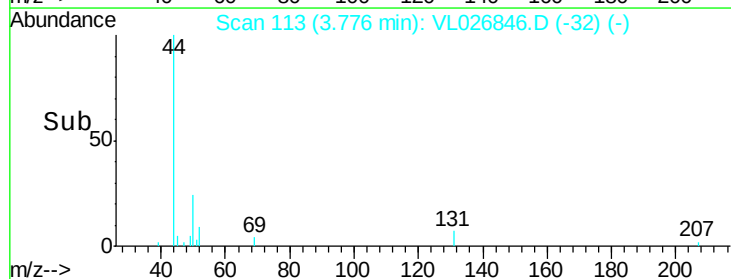
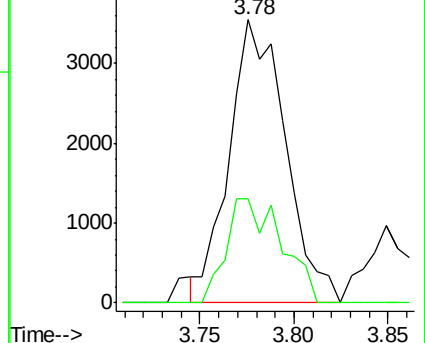
50 100

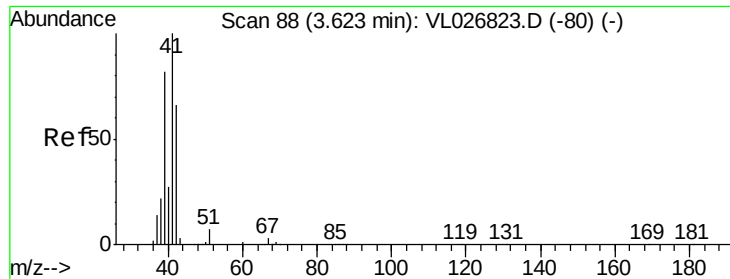
52 36.6 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.92 ppbv

RT: 3.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

MSVOA_L

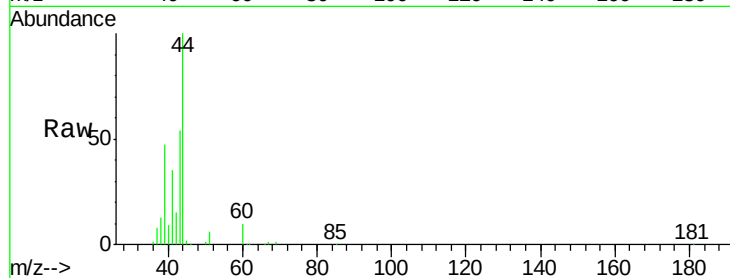
ClientSampleId :

Tgt Ion: 41 Resp: 77351

Ion Ratio Lower Upper

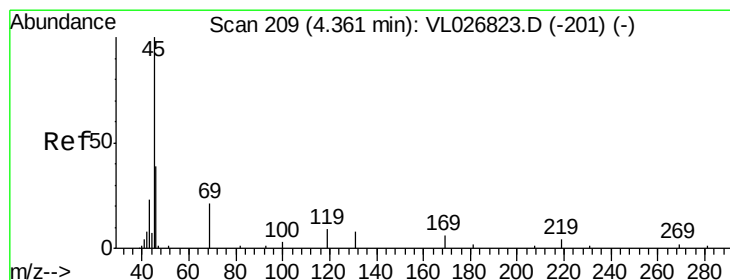
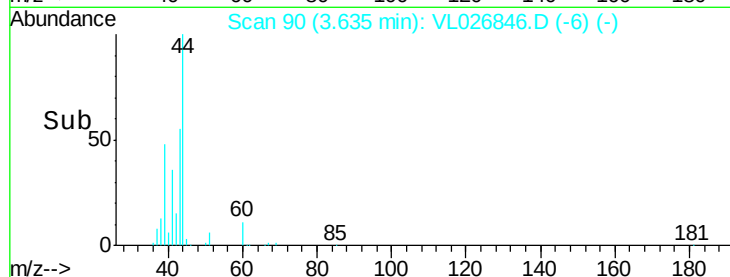
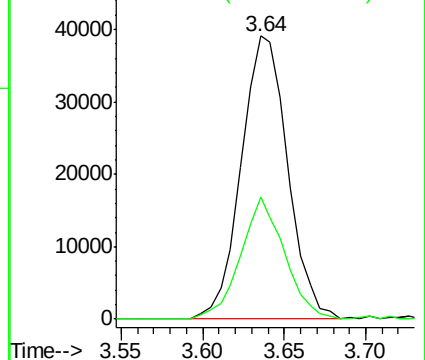
41 100

42 41.2 52.8 79.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 33.18 ppbv

RT: 4.36 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL026846.D

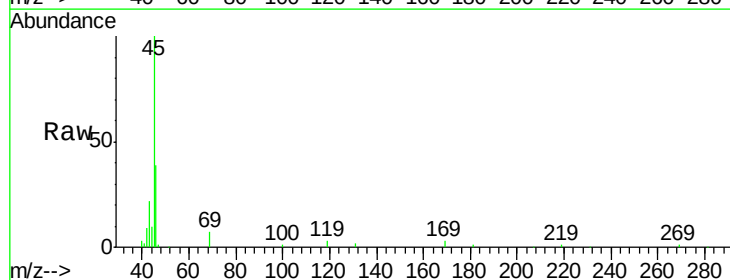
Acq: 10 Feb 2016 8:52

Tgt Ion: 45 Resp: 479412

Ion Ratio Lower Upper

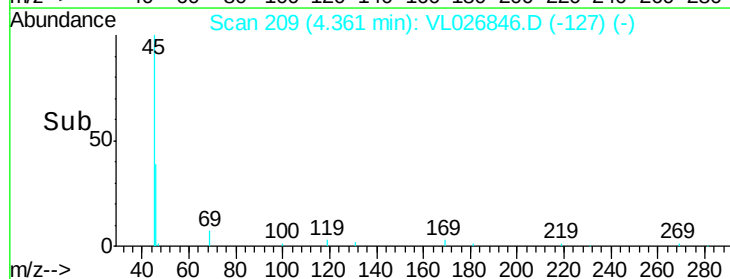
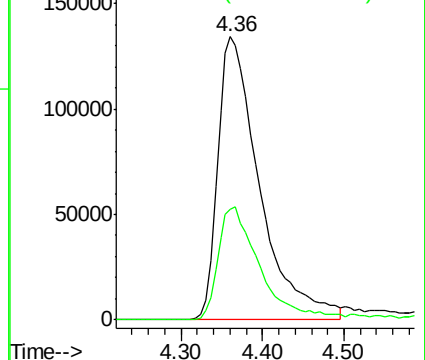
45 100

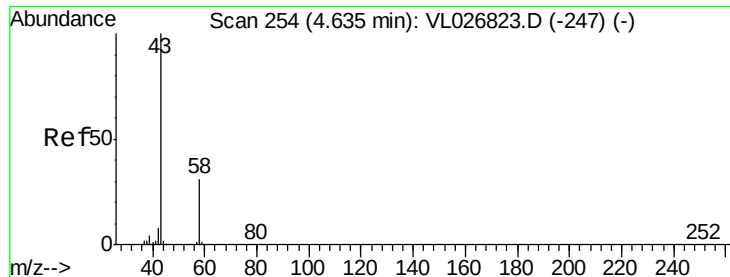
46 41.1 15.8 63.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.69 ppbv

RT: 4.65 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

MSVOA_L

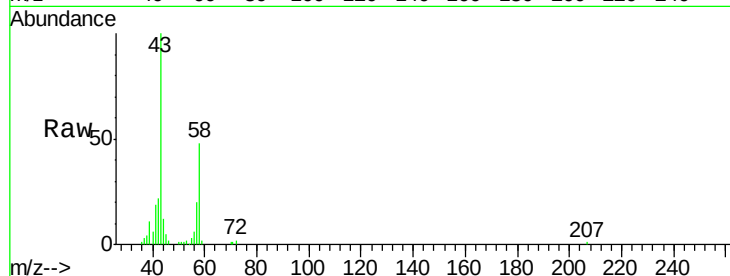
ClientSampleId :

Tgt Ion: 43 Resp: 182684

Ion Ratio Lower Upper

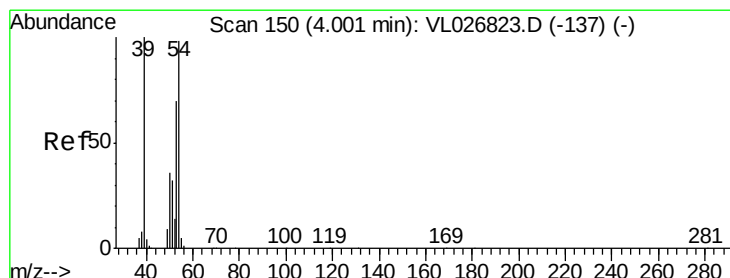
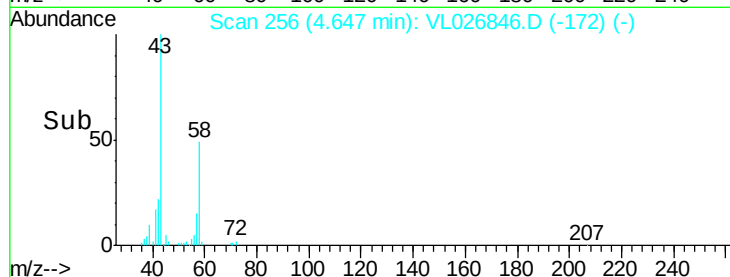
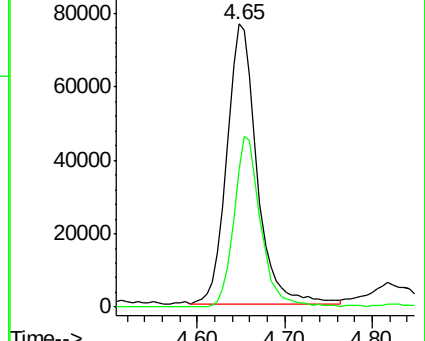
43 100

58 54.1 25.2 37.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.07 ppbv

RT: 3.97 min Scan# 145

Delta R.T. -0.03 min

Lab File: VL026846.D

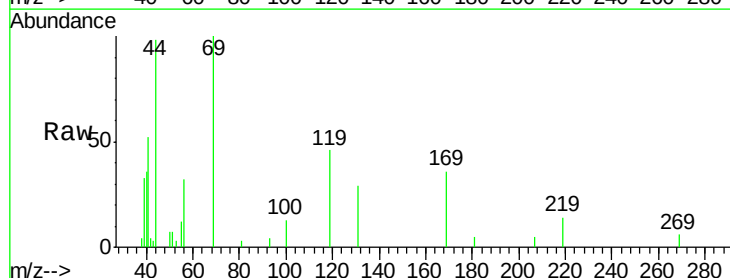
Acq: 10 Feb 2016 8:52

Tgt Ion: 39 Resp: 7628

Ion Ratio Lower Upper

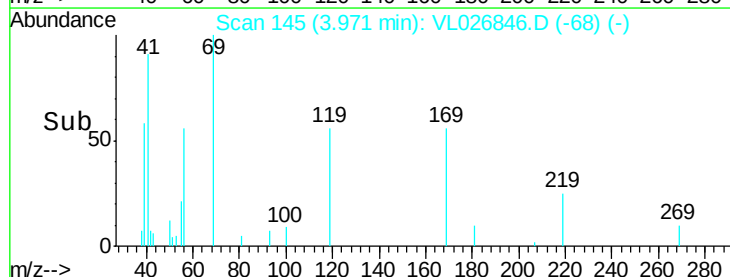
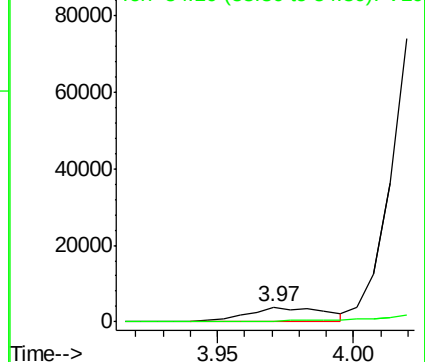
39 100

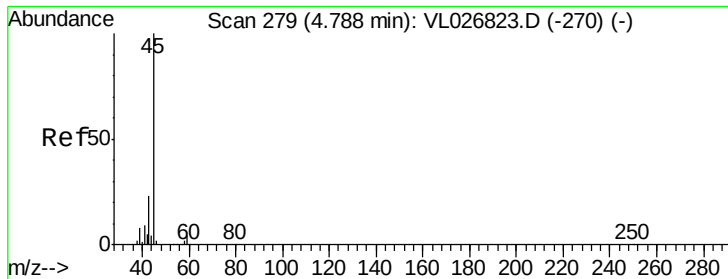
54 0.0 74.7 112.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

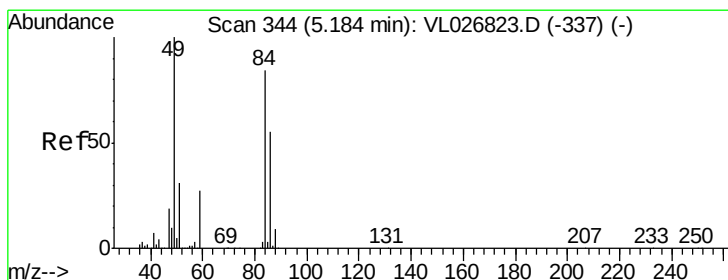
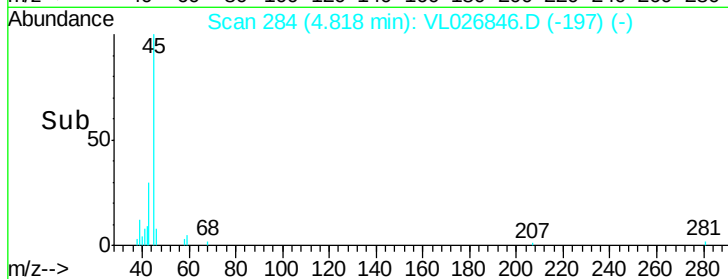
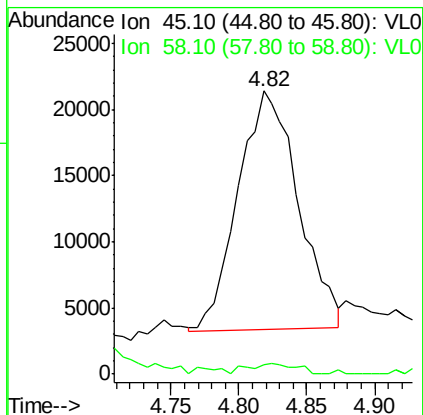
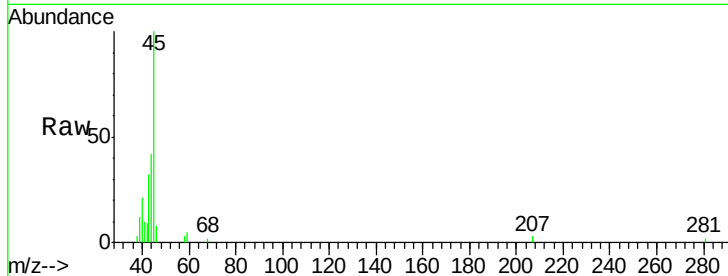




#19
Isopropyl Alcohol
Concen: 0.59 ppbv
RT: 4.82 min Scan# 284
Delta R.T. 0.03 min
Lab File: VL026846.D
Acq: 10 Feb 2016 8:52

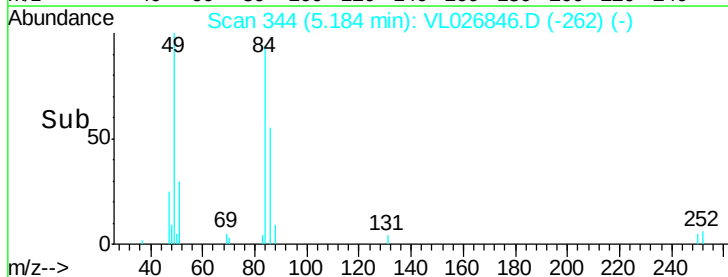
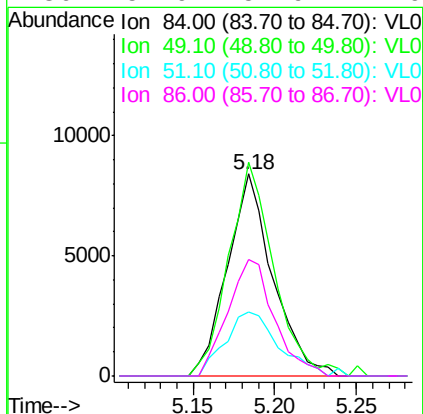
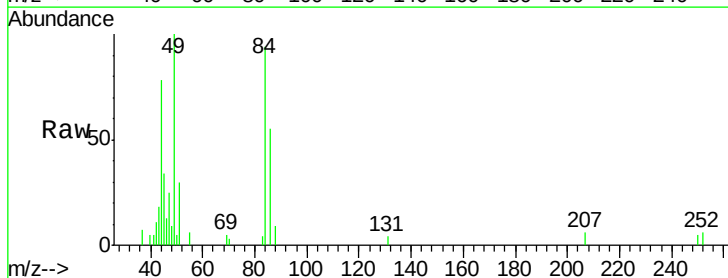
Instrument :
MSVOA_L
ClientSampleId :

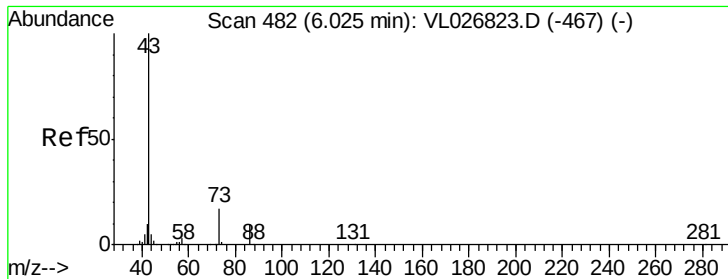
Tgt Ion: 45 Resp: 55752
Ion Ratio Lower Upper
45 100
58 178.7 2.2 3.2#



#20
Methylene Chloride
Concen: 0.12 ppbv
RT: 5.18 min Scan# 344
Delta R.T. -0.00 min
Lab File: VL026846.D
Acq: 10 Feb 2016 8:52

Tgt Ion: 84 Resp: 16320
Ion Ratio Lower Upper
84 100
49 105.9 94.9 142.3
51 31.9 29.5 44.3
86 57.9 51.9 77.9





#23

Vinyl Acetate

Concen: 0.06 ppbv

RT: 6.04 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

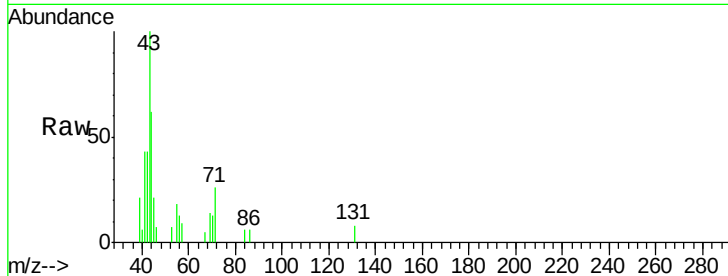
Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43 Resp: 21027

Ion	Ratio	Lower	Upper
43	100		
86	6.7	7.7	11.5#
42	41.3	7.8	11.8#
44	0.0	3.9	5.9#



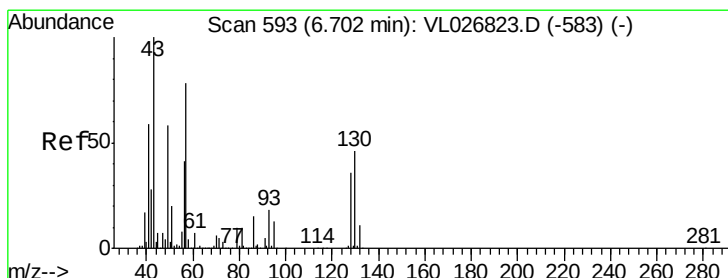
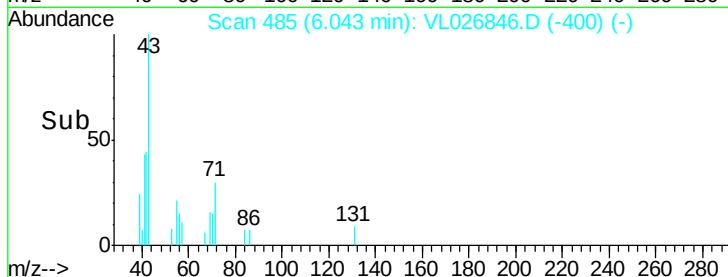
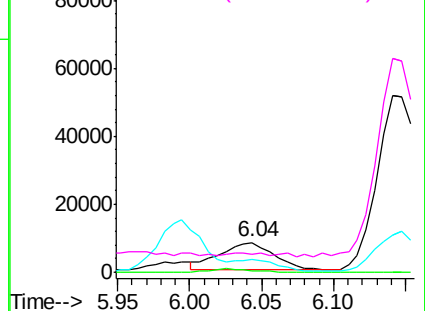
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#26

Hexane

Concen: 0.06 ppbv

RT: 6.70 min Scan# 592

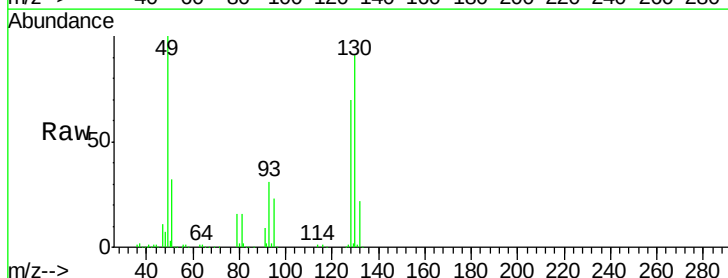
Delta R.T. -0.01 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Tgt Ion: 57 Resp: 14349

Ion	Ratio	Lower	Upper
57	100		
41	93.3	63.3	94.9
43	163.7	151.4	227.2
56	62.4	42.2	63.2



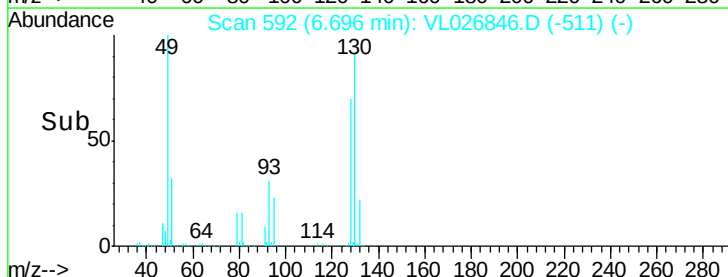
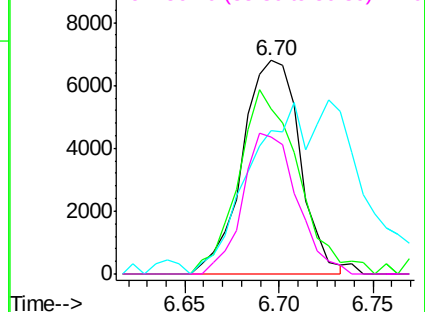
Abundance

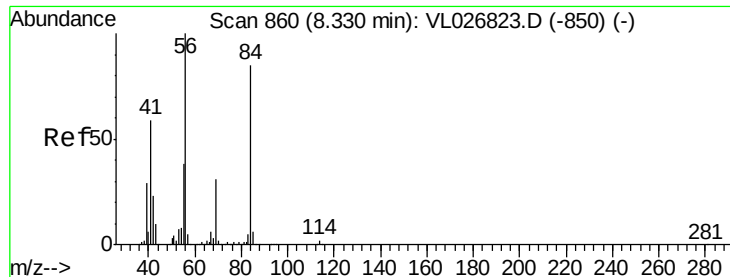
Ion 57.10 (56.80 to 57.80): VL0

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

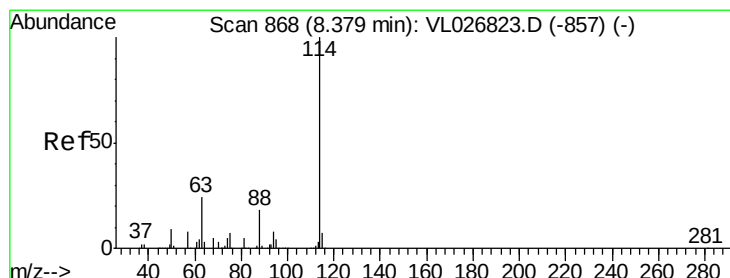
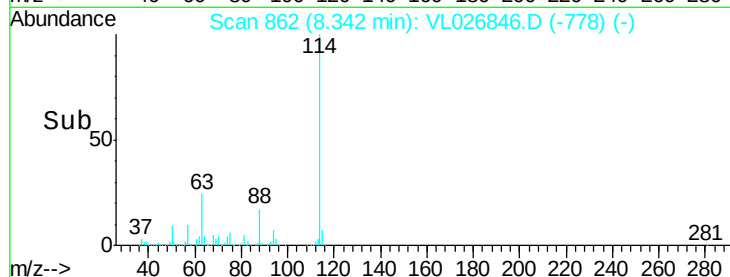
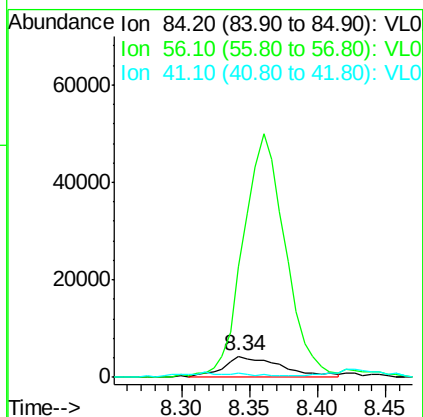
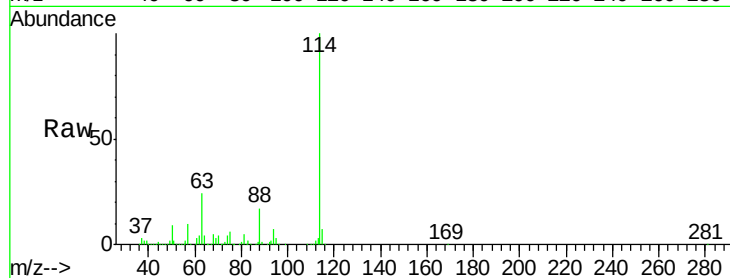




#30
Cyclohexane
Concen: 0.07 ppbv
RT: 8.34 min Scan# 862
Delta R.T. 0.01 min
Lab File: VL026846.D
Acq: 10 Feb 2016 8:52

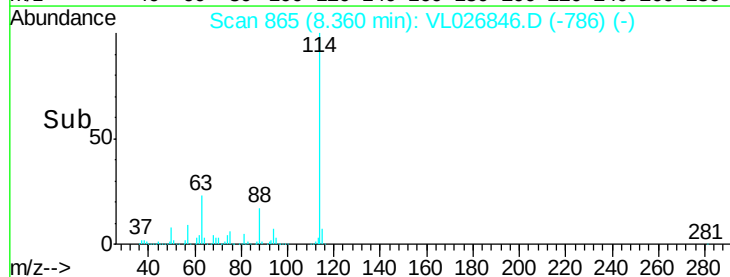
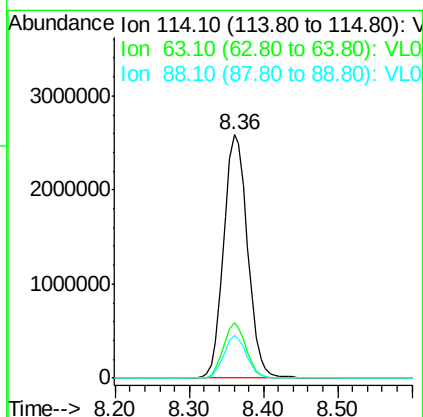
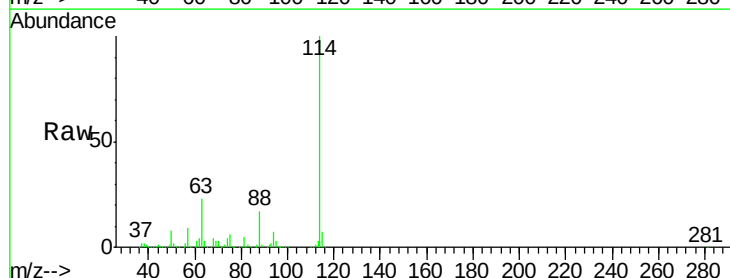
Instrument :
MSVOA_L
ClientSampleId :

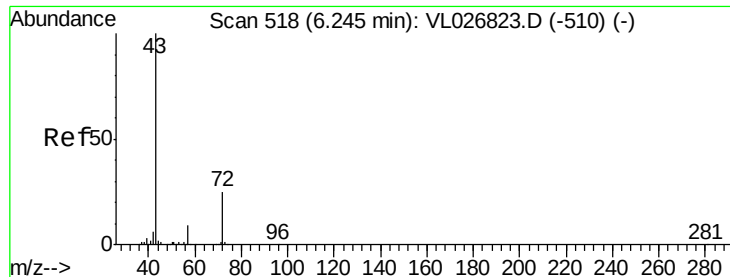
Tgt Ion: 84 Resp: 12881
Ion Ratio Lower Upper
84 100
56 873.8 99.4 149.2#
41 29.5 56.7 85.1#



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.36 min Scan# 865
Delta R.T. -0.02 min
Lab File: VL026846.D
Acq: 10 Feb 2016 8:52

Tgt Ion: 114 Resp: 5801895
Ion Ratio Lower Upper
114 100
63 21.9 19.7 29.5
88 16.6 13.8 20.6

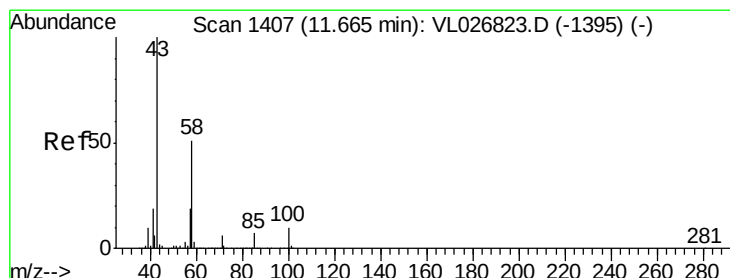
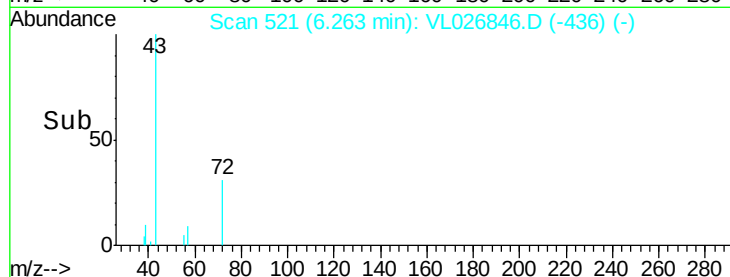
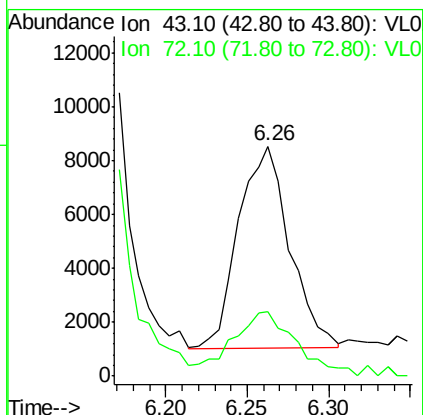
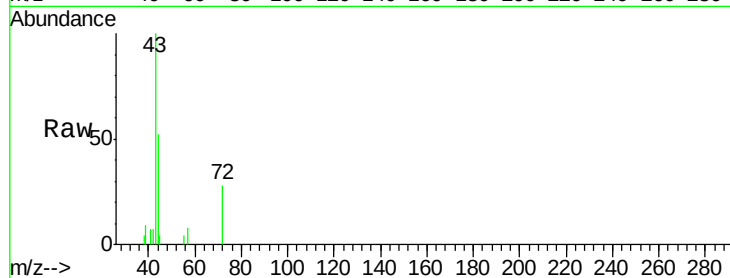




#34
2-Butanone
Concen: 0.06 ppbv
RT: 6.26 min Scan# 521
Delta R.T. 0.02 min
Lab File: VL026846.D
Acq: 10 Feb 2016 8:52

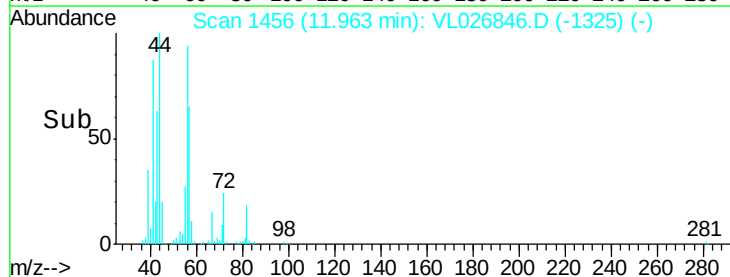
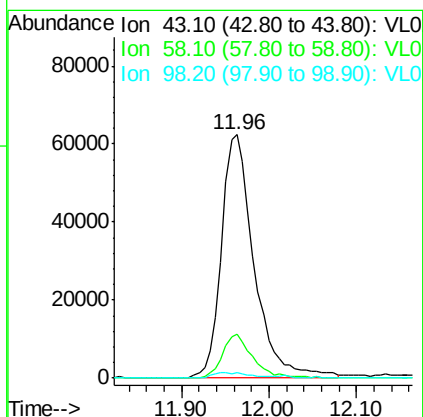
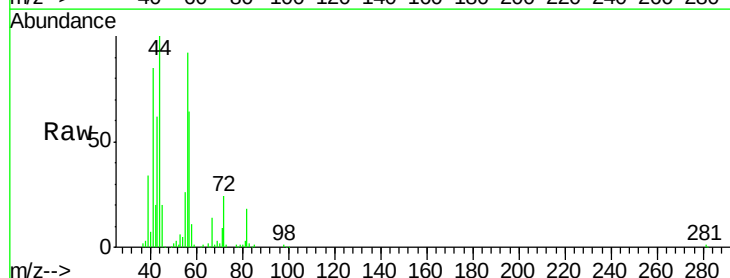
Instrument :
MSVOA_L
ClientSampleId :

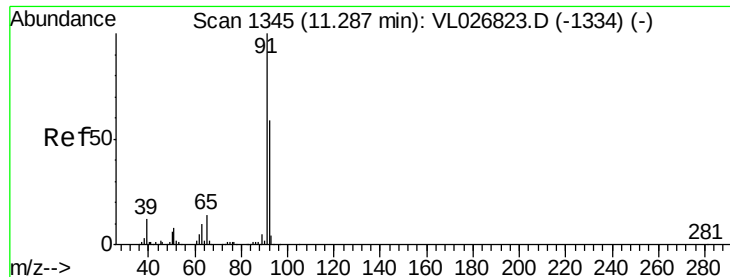
Tgt Ion: 43 Resp: 16285
Ion Ratio Lower Upper
43 100
72 39.6 19.8 29.8#



#51
2-Hexanone
Concen: 0.58 ppbv
RT: 11.96 min Scan# 1456
Delta R.T. 0.30 min
Lab File: VL026846.D
Acq: 10 Feb 2016 8:52

Tgt Ion: 43 Resp: 161726
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6#
98 0.0 0.2 0.4#





#53

Toluene

Concen: 0.08 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. -0.01 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

MSVOA_L

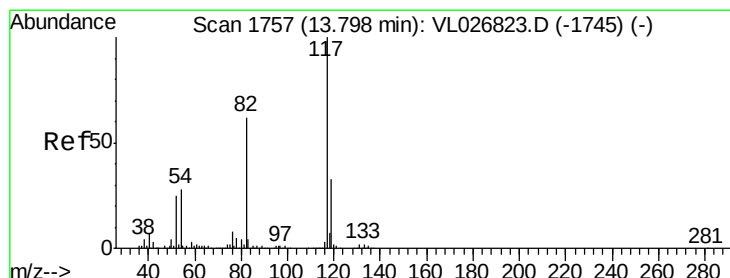
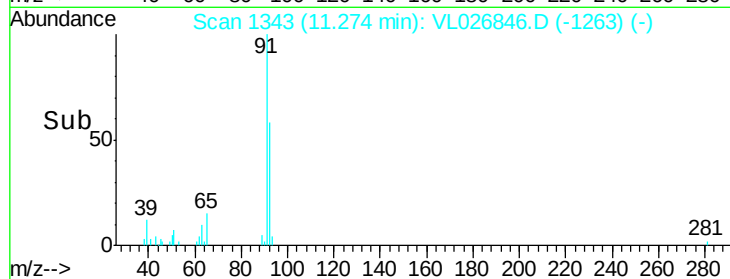
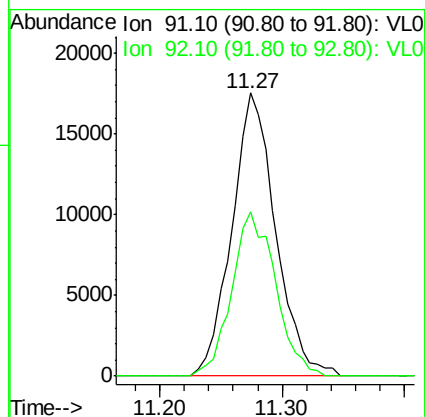
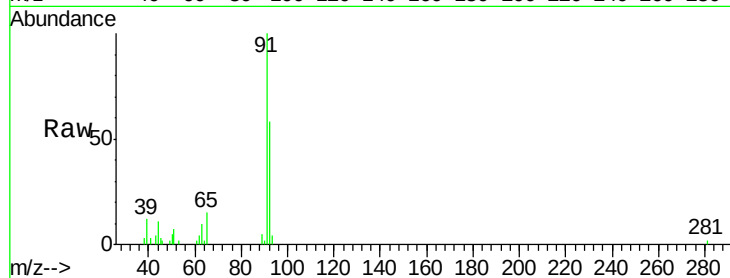
ClientSampleId :

Tgt Ion: 91 Resp: 43566

Ion Ratio Lower Upper

91 100

92 58.0 47.3 70.9



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.79 min Scan# 1755

Delta R.T. -0.01 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

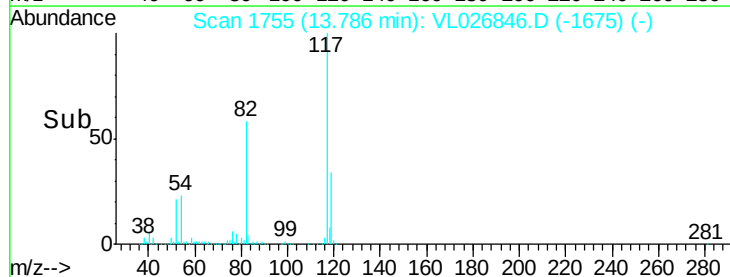
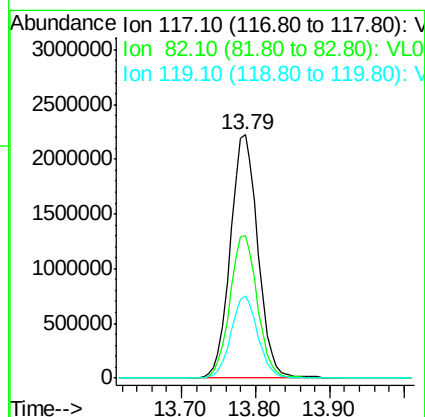
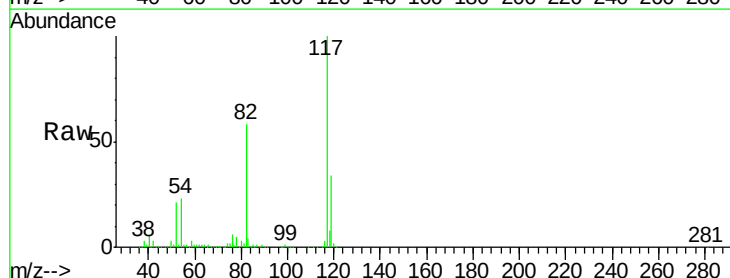
Tgt Ion: 117 Resp: 5765403

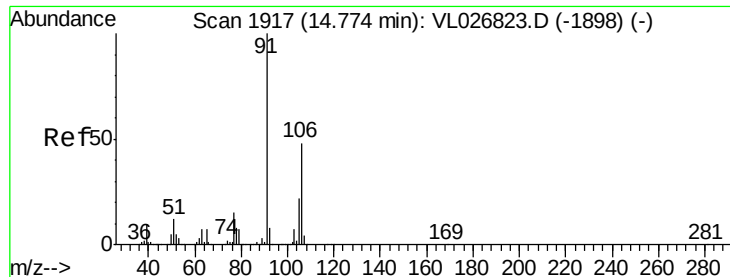
Ion Ratio Lower Upper

117 100

82 59.0 51.9 77.9

119 33.1 48.5 72.7#

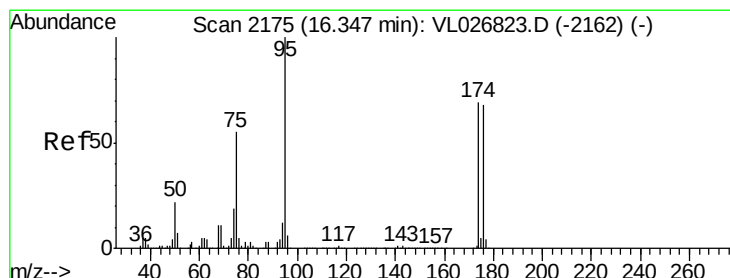
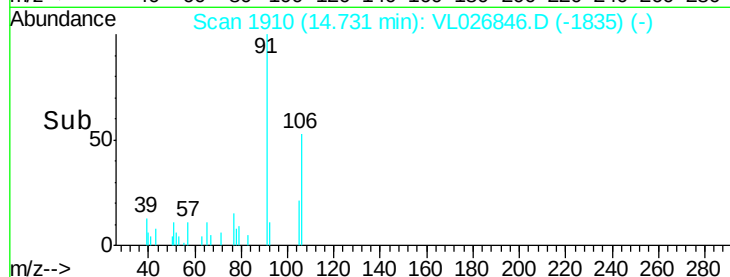
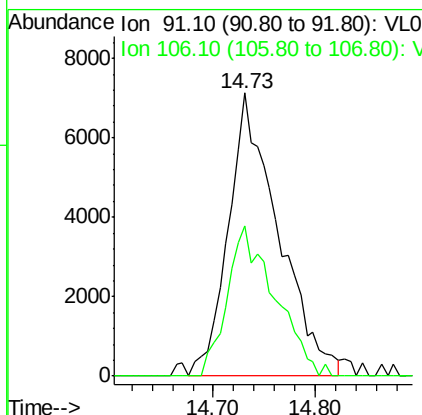
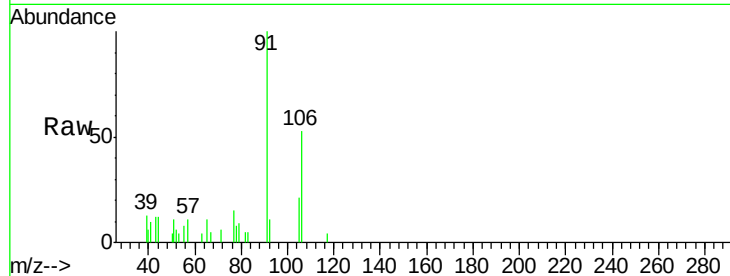




#59
m/p-Xylene
Concen: 0.04 ppbv
RT: 14.73 min Scan# 1910
Delta R.T. -0.04 min
Lab File: VL026846.D
Acq: 10 Feb 2016 8:52

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 24236
Ion Ratio Lower Upper
91 100
106 50.4 38.2 57.2



#68
1-Bromo-4-Fluorobenzene
Concen: 9.95 ppbv
RT: 16.33 min Scan# 2172
Delta R.T. -0.02 min
Lab File: VL026846.D
Acq: 10 Feb 2016 8:52

Tgt Ion: 95 Resp: 4120209
Ion Ratio Lower Upper
95 100
174 76.3 55.6 83.4
175 5.4 3.9 5.9

