

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026654.D
 Acq On : 8 Jan 2016 23:36
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Jan 09 01:58:20 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 08 23:12:37 2016
 QLast Update : Fri Jan 08 23:12:37 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.62	49	743582	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	8.29	114	2344981	10.00	ppbv	0.02
55) Chlorobenzene-d5	13.71	117	3117158	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.25	95	2539702	10.13	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

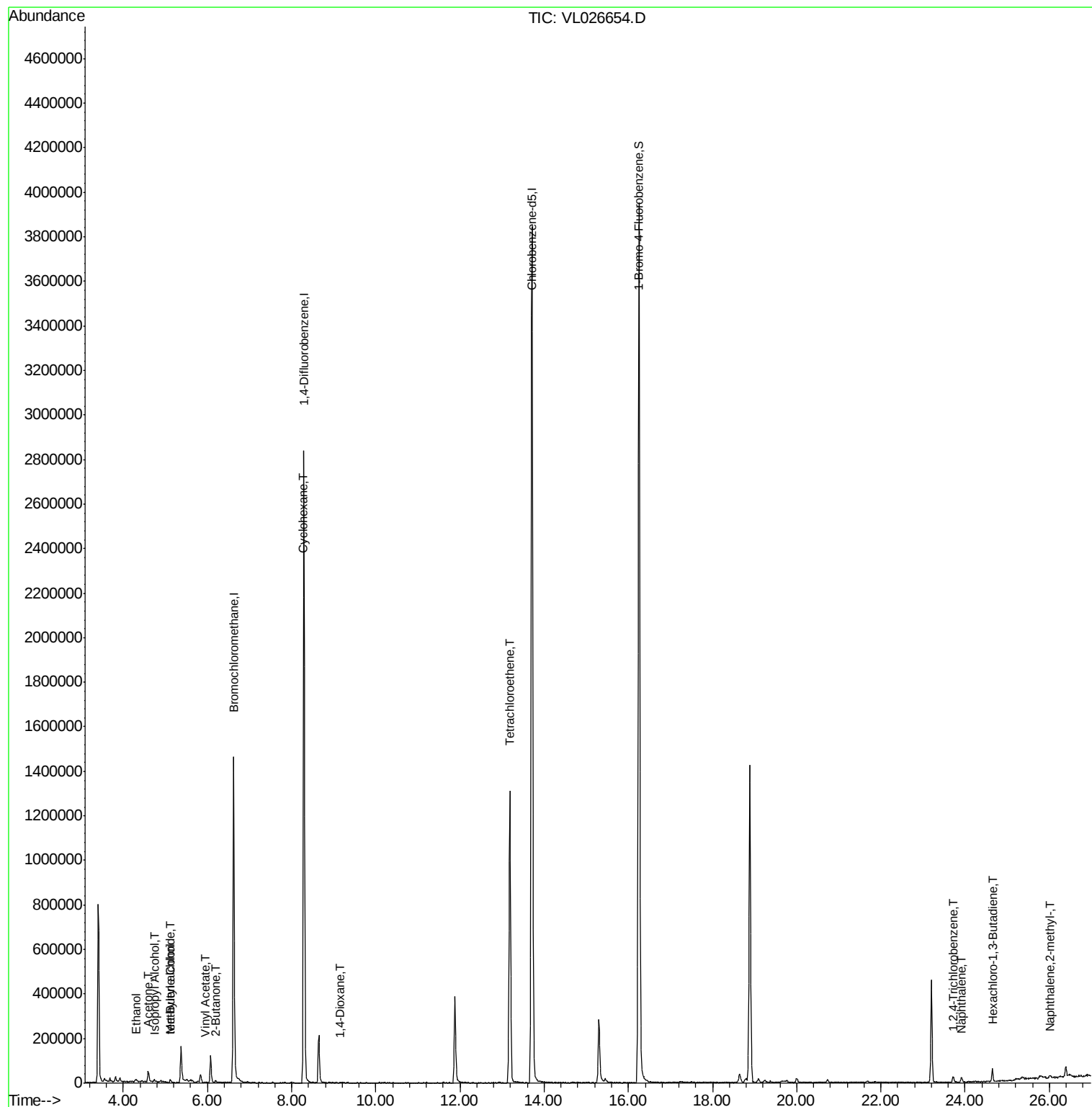
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	4.31	45	1474	0.25	ppbv #	34
15) Acetone	4.59	43	42623	0.36	ppbv #	20
17) tert-Butyl alcohol	5.11	59	10874	0.12	ppbv	97
19) Isopropyl Alcohol	4.74	45	8289	0.17	ppbv #	1
20) Methylene Chloride	5.12	84	2609	0.05	ppbv #	83
23) Vinyl Acetate	5.96	43	5987	0.03	ppbv #	80
30) Cyclohexane	8.27	84	3686	0.04	ppbv #	1
34) 2-Butanone	6.18	43	10943	0.09	ppbv	92
40) 1,4-Dioxane	9.16	88	897	0.05	ppbv #	1
52) Tetrachloroethene	13.19	164	6783	0.06	ppbv #	26
78) Hexachloro-1,3-Butadiene	24.64	225	14657	0.10	ppbv	93
79) Naphthalene	23.92	128	15088	0.04	ppbv #	94
80) Naphthalene, 2-methyl-	26.02	142	7890	0.16	ppbv #	72
81) 1,2,4-Trichlorobenzene	23.71	180	13252	0.08	ppbv	97

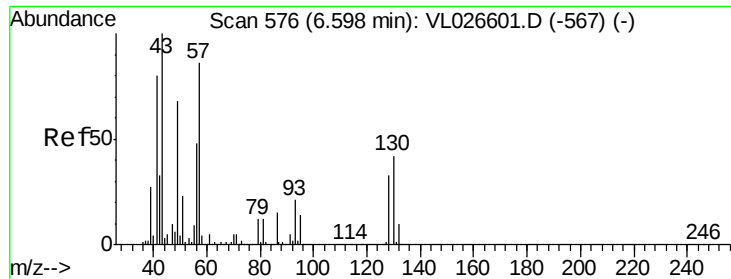
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jan 08 23:12:37 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.62 min Scan# 580

Delta R.T. 0.02 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

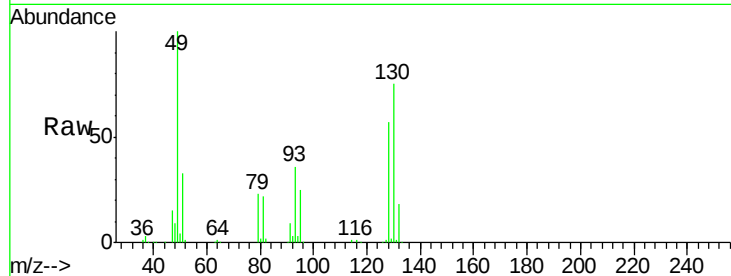
Tot Ion: 49 Resp: 743582

Ion Ratio Lower Upper

49 100

128 56.7 24.9 74.8

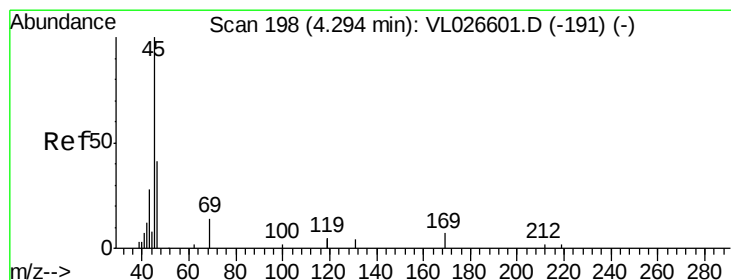
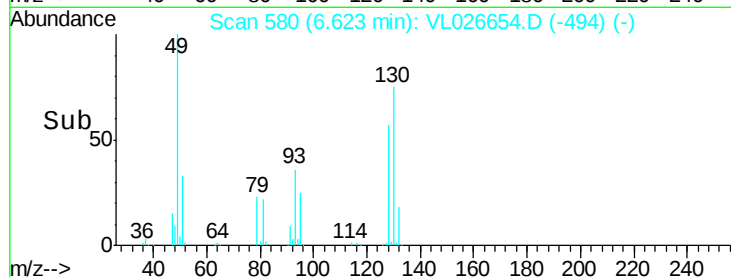
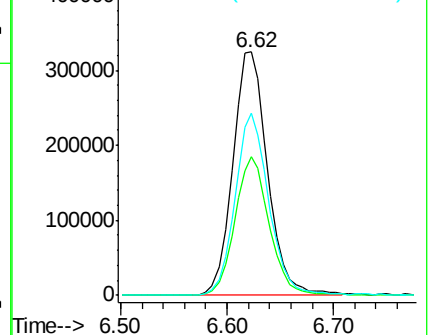
130 73.9 32.0 96.0



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



#13

Ethanol

Concen: 0.25 ppbv

RT: 4.31 min Scan# 200

Delta R.T. 0.01 min

Lab File: VL026654.D

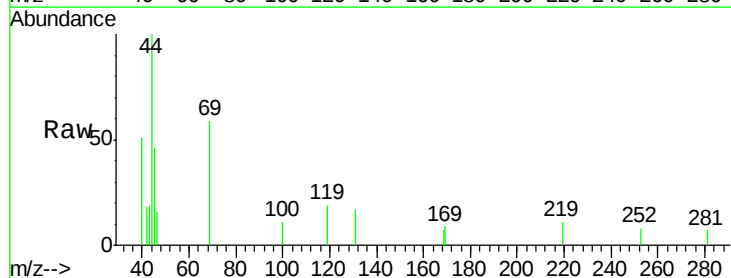
Acq: 8 Jan 2016 23:36

Tgt Ion: 45 Resp: 1474

Ion Ratio Lower Upper

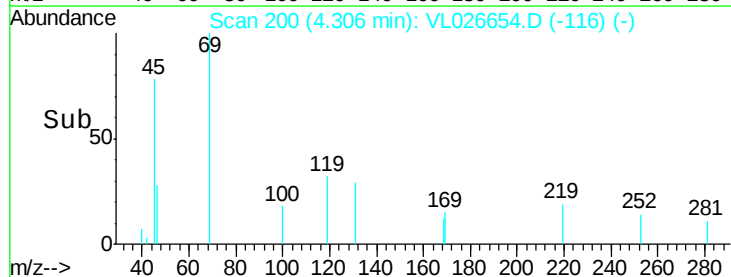
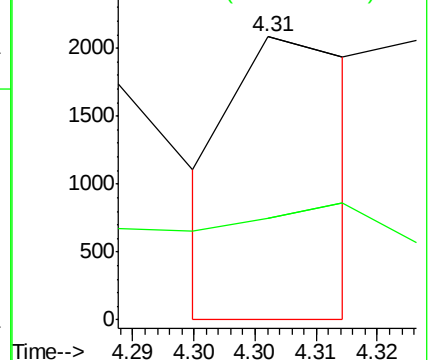
45 100

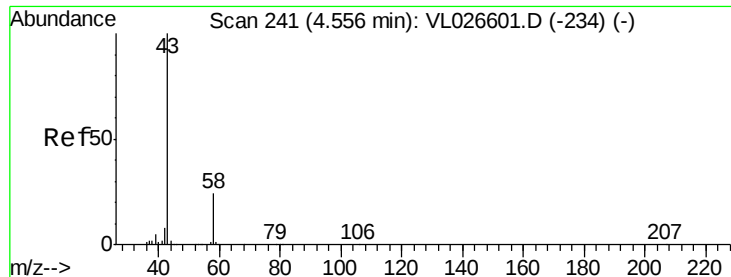
46 0.0 16.8 67.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.36 ppbv

RT: 4.59 min Scan# 247

Delta R.T. 0.04 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

ClientSampleId :

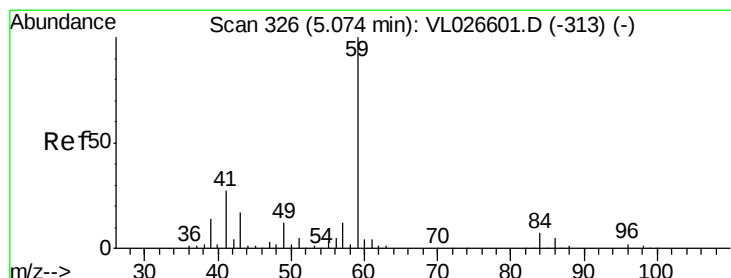
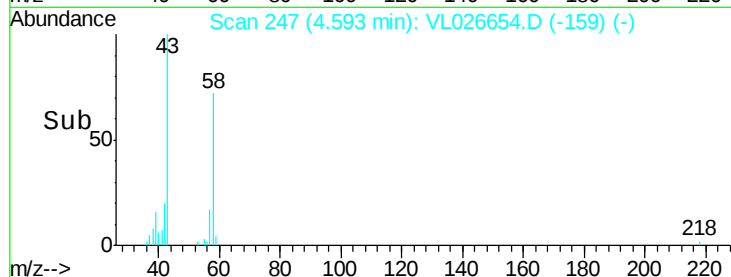
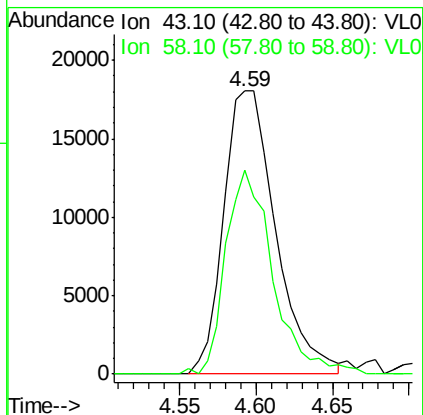
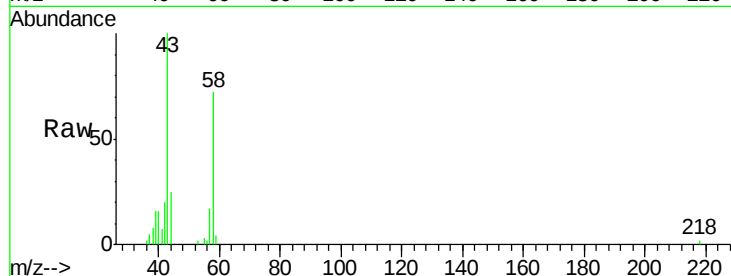
VIBLK

Tot Ion: 43 Resp: 42623

Ion Ratio Lower Upper

43 100

58 65.1 20.1 30.1#



#17

tert-Butyl alcohol

Concen: 0.12 ppbv

RT: 5.11 min Scan# 332

Delta R.T. 0.04 min

Lab File: VL026654.D

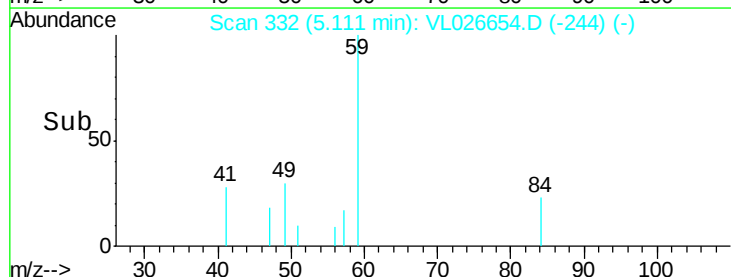
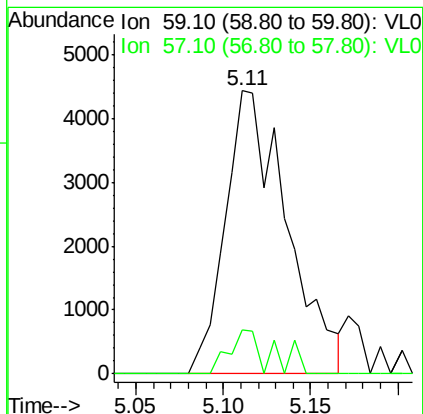
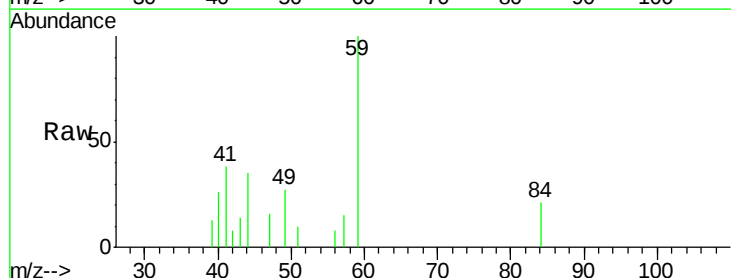
Acq: 8 Jan 2016 23:36

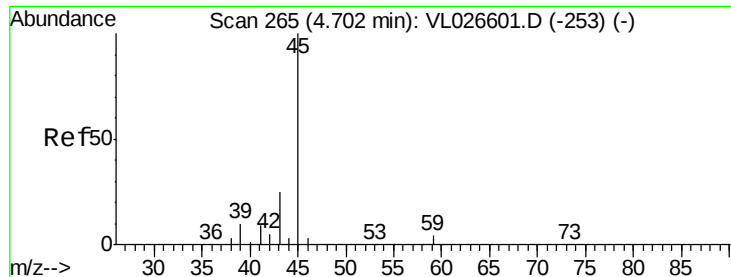
Tgt Ion: 59 Resp: 10874

Ion Ratio Lower Upper

59 100

57 10.3 9.1 13.7





#19

Isopropyl Alcohol

Concen: 0.17 ppbv

RT: 4.74 min Scan# 272

Delta R.T. 0.04 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

ClientSampleId :

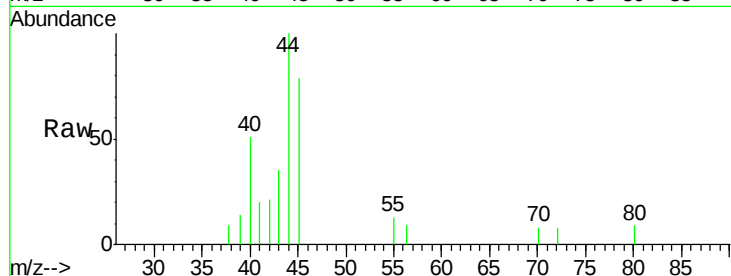
VIBLK

Tot Ion: 45 Resp: 8289

Ion Ratio Lower Upper

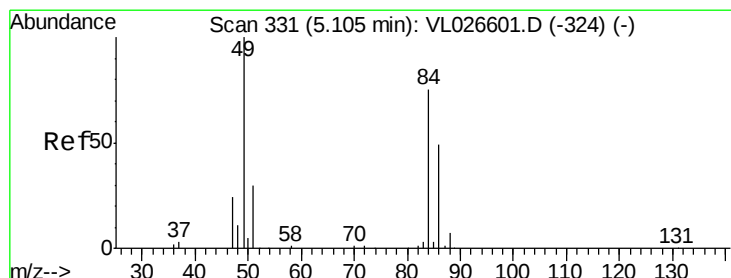
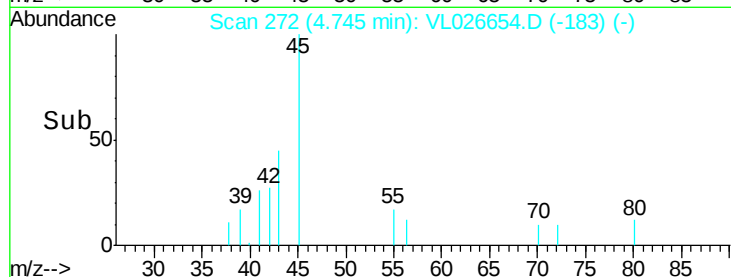
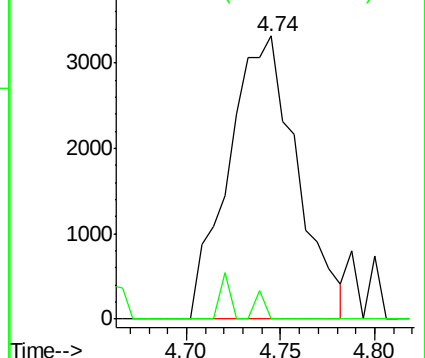
45 100

58 334.6 43.3 64.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.05 ppbv

RT: 5.12 min Scan# 334

Delta R.T. 0.02 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Tgt Ion: 84 Resp: 2609

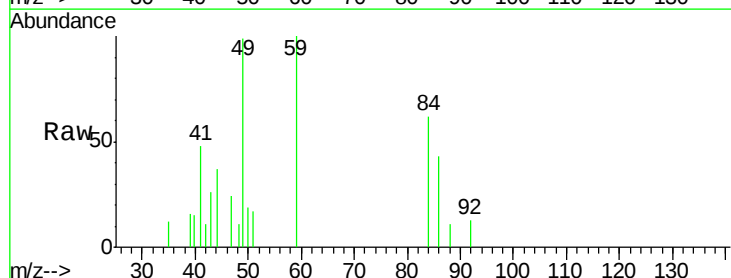
Ion Ratio Lower Upper

84 100

49 158.5 106.9 160.3

51 27.6 32.8 49.2#

86 69.2 51.8 77.8

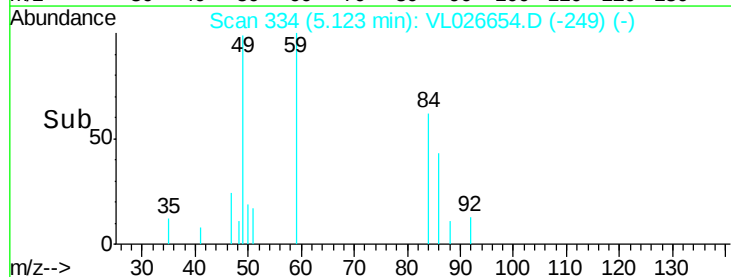
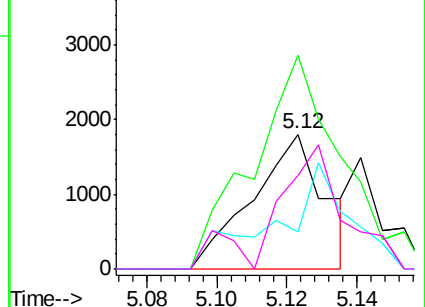


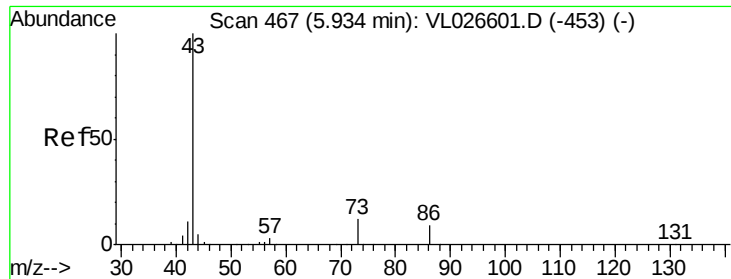
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#23

Vinyl Acetate

Concen: 0.03 ppbv

RT: 5.96 min Scan# 471

Delta R.T. 0.02 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion: 43 Resp: 5987

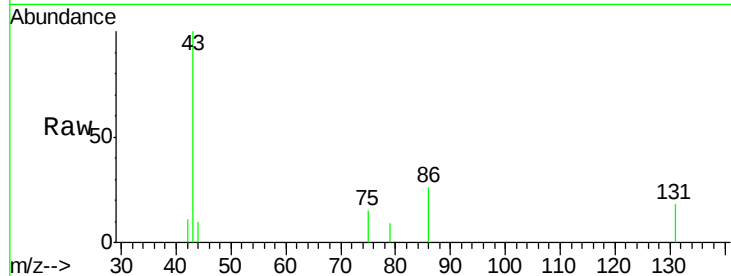
Ion Ratio Lower Upper

43 100

86 26.2 7.3 10.9#

42 10.6 8.6 13.0

44 0.0 3.8 5.8#

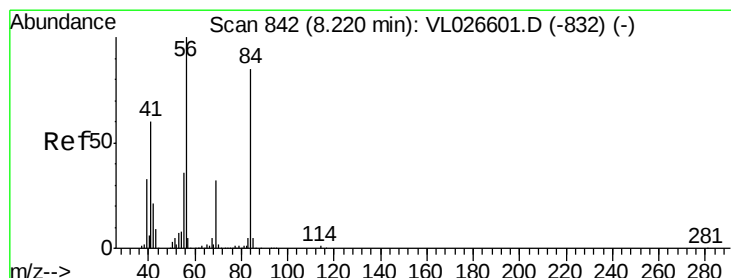
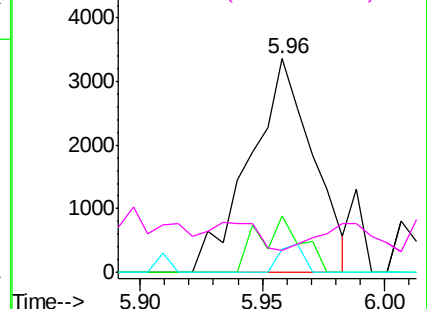
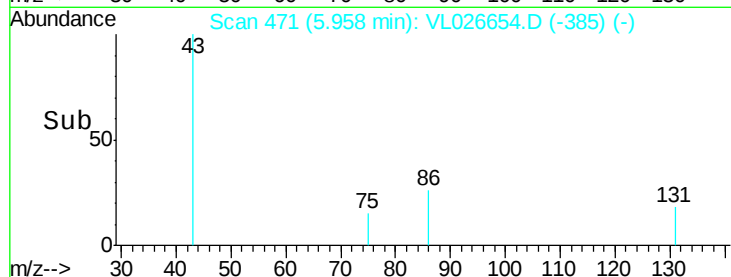


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#30

Cyclohexane

Concen: 0.04 ppbv

RT: 8.27 min Scan# 851

Delta R.T. 0.05 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

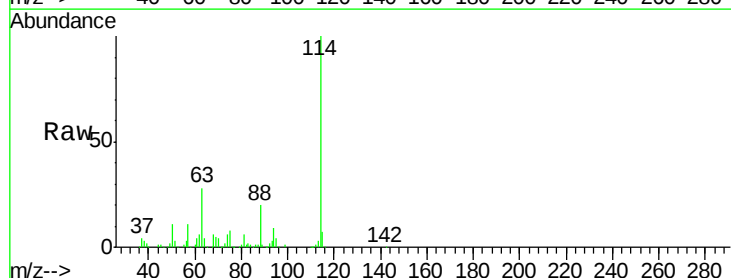
Tgt Ion: 84 Resp: 3686

Ion Ratio Lower Upper

84 100

56 0.0 98.2 147.4#

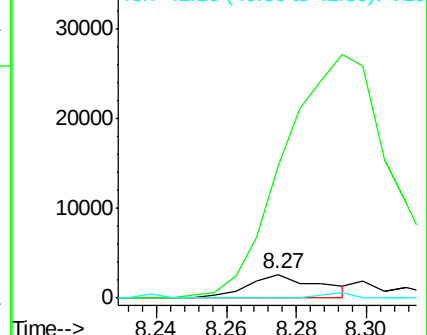
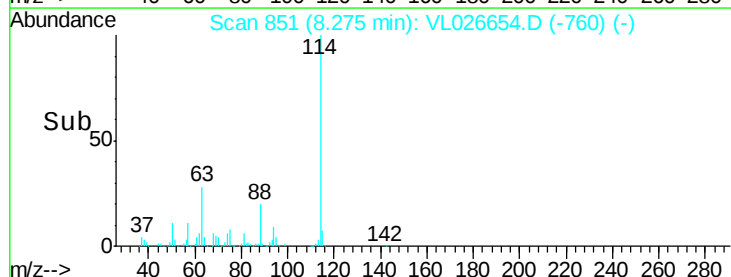
41 0.0 56.2 84.4#

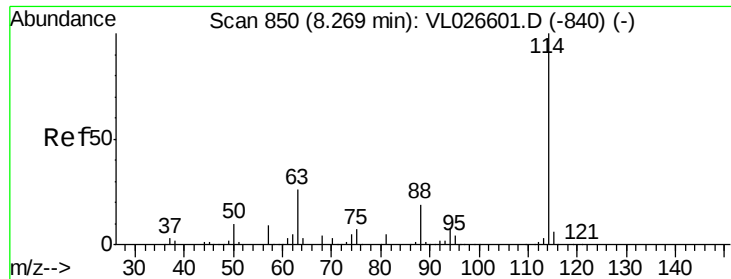


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

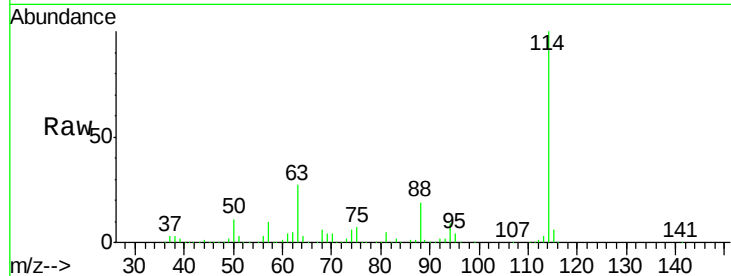




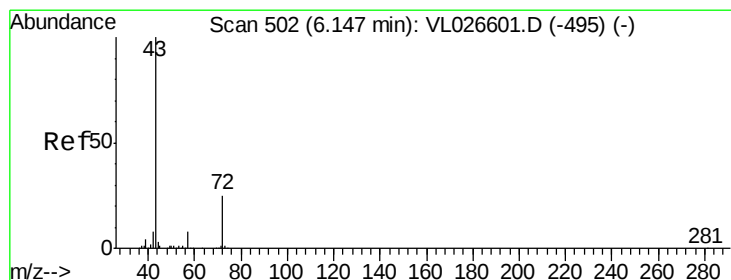
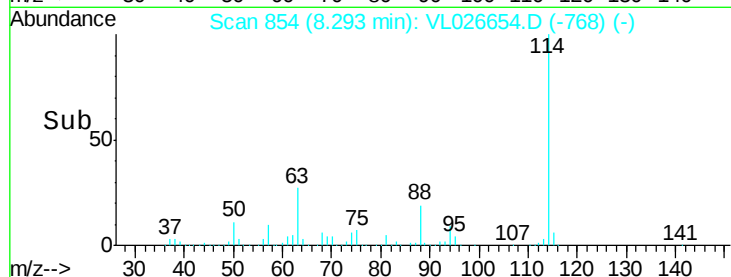
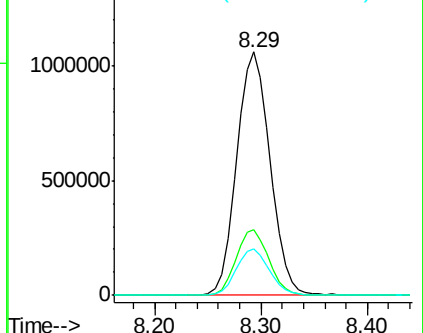
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.29 min Scan# 854
 Delta R.T. 0.02 min
 Lab File: VL026654.D
 Acq: 8 Jan 2016 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Tot Ion:114 Resp: 2344981
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.8 32.8
 88 18.9 15.4 23.2

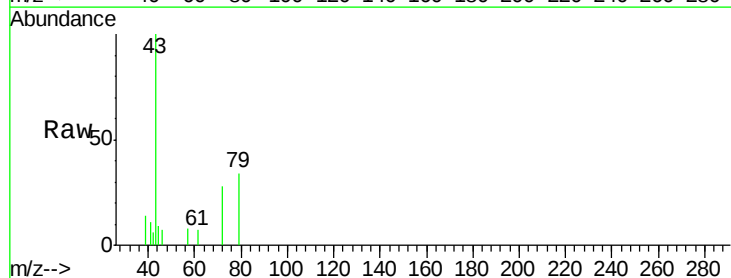


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

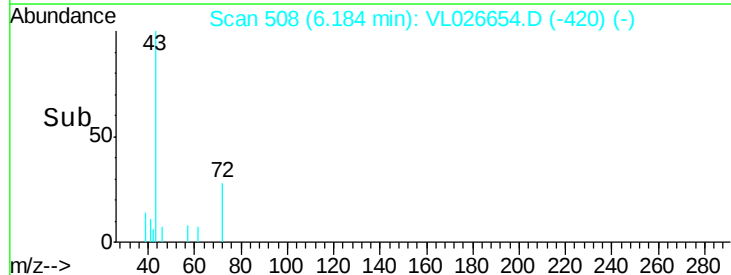
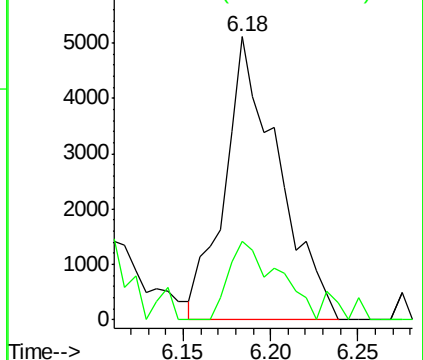


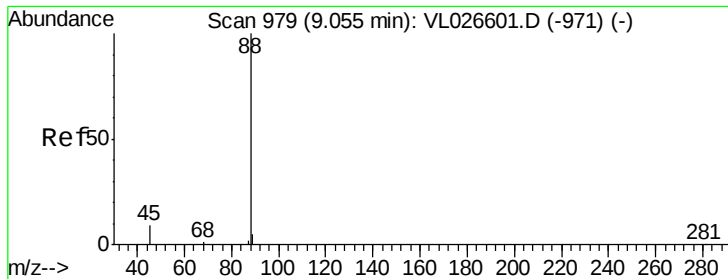
#34
 2-Butanone
 Concen: 0.09 ppbv
 RT: 6.18 min Scan# 508
 Delta R.T. 0.04 min
 Lab File: VL026654.D
 Acq: 8 Jan 2016 23:36

Tgt Ion: 43 Resp: 10943
 Ion Ratio Lower Upper
 43 100
 72 29.6 20.5 30.7



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





#40

1,4-Dioxane

Concen: 0.05 ppbv

RT: 9.16 min Scan# 996

Delta R.T. 0.10 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

ClientSampled :

VIBLK

Tot Ion: 88 Resp: 897

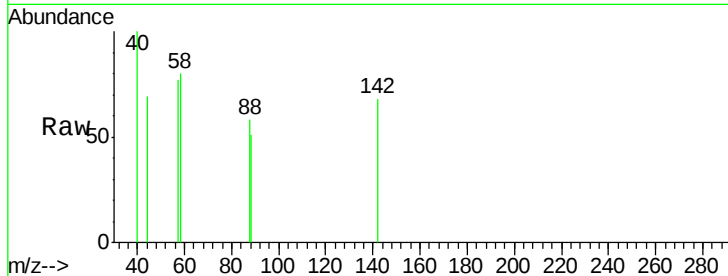
Ion Ratio Lower Upper

88 100

58 0.0 143.8 215.8#

43 225.2 376.3 564.5#

57 0.0 1943.3 2914.9#

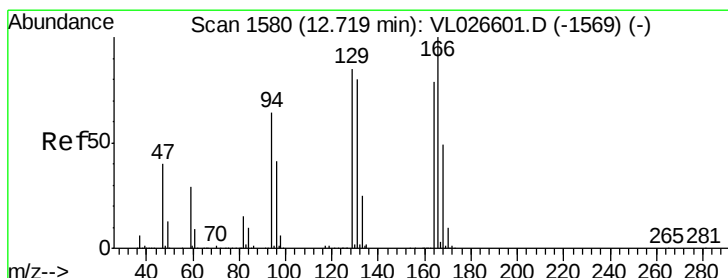
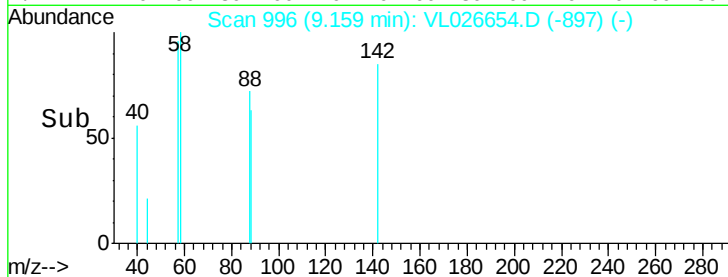
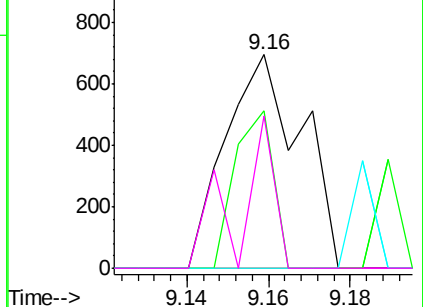


Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#52

Tetrachloroethene

Concen: 0.06 ppbv

RT: 13.19 min Scan# 1657

Delta R.T. 0.47 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Tgt Ion: 164 Resp: 6783

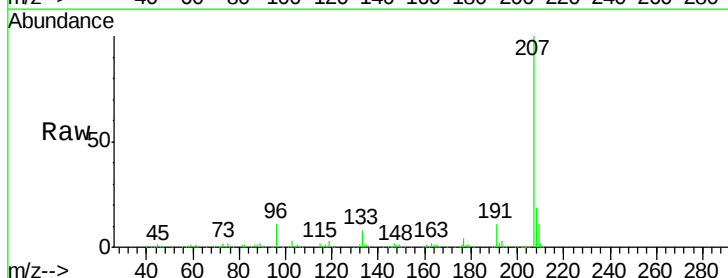
Ion Ratio Lower Upper

164 100

166 20.8 100.7 151.1#

129 16.3 85.8 128.6#

131 62.0 80.2 120.4#

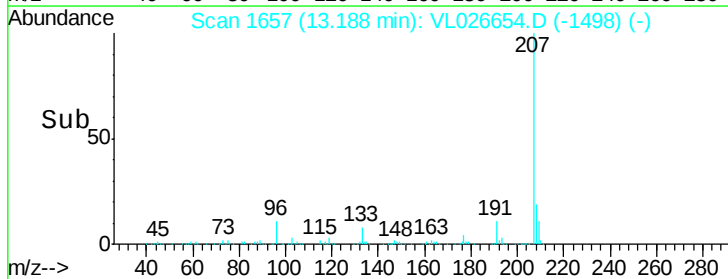
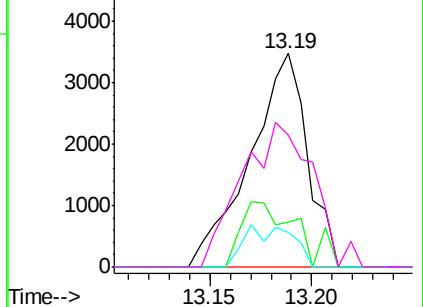


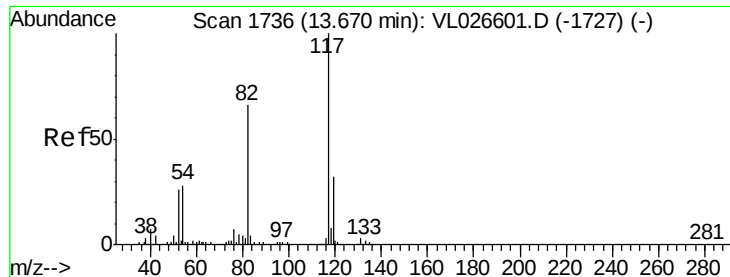
Abundance Ion 163.90 (163.60 to 164.60): V

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

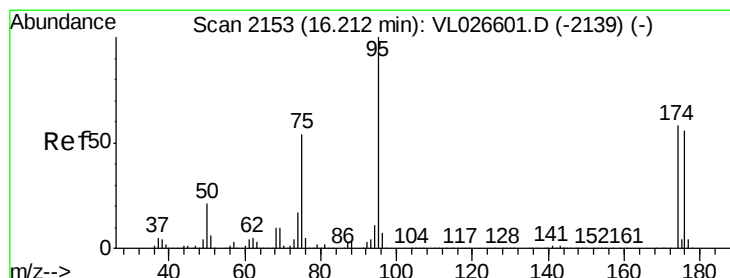
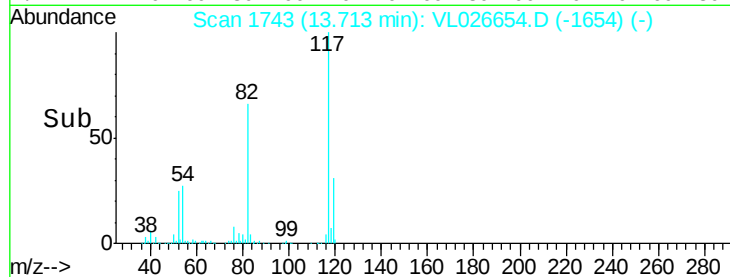
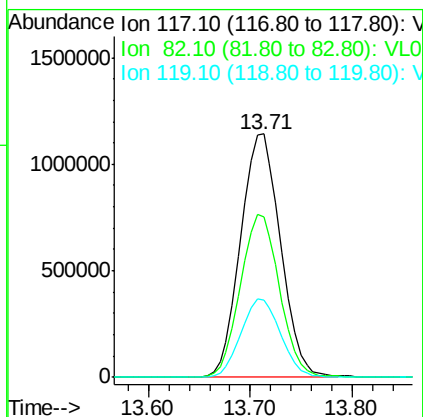
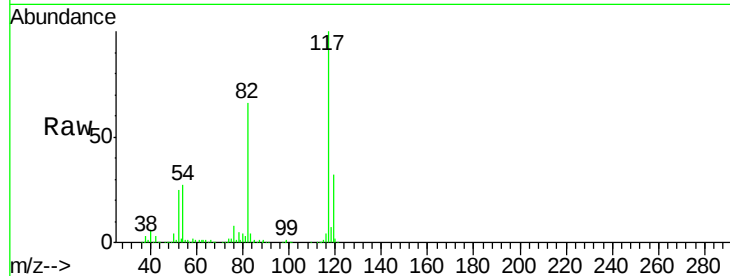




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.71 min Scan# 1743
Delta R.T. 0.04 min
Lab File: VL026654.D
Acq: 8 Jan 2016 23:36

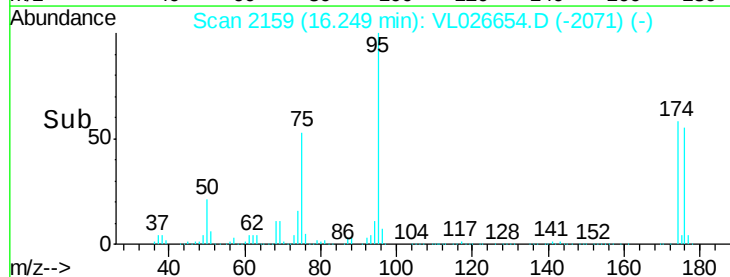
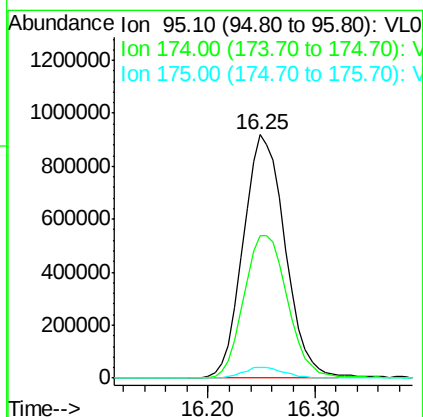
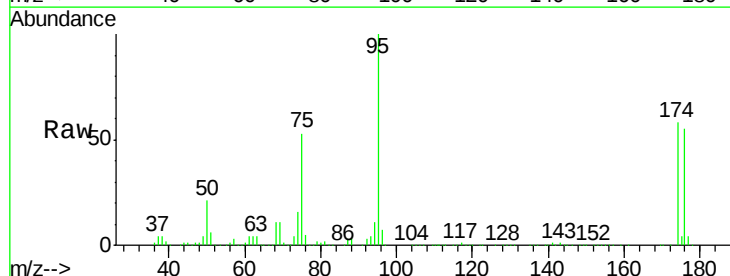
Instrument :
MSVOA_L
ClientSampled :
VIBLK

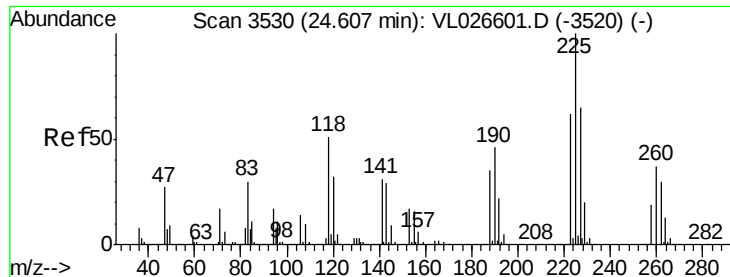
Tot Ion:117 Resp: 3117158
Ion Ratio Lower Upper
117 100
82 66.3 54.2 81.2
119 32.3 46.2 69.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.13 ppbv
RT: 16.25 min Scan# 2159
Delta R.T. 0.04 min
Lab File: VL026654.D
Acq: 8 Jan 2016 23:36

Tgt Ion: 95 Resp: 2539702
Ion Ratio Lower Upper
95 100
174 61.9 46.4 69.6
175 4.4 3.4 5.2





#78

Hexachloro-1,3-Butadiene

Concen: 0.10 ppbv

RT: 24.64 min Scan# 3536

Delta R.T. 0.04 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

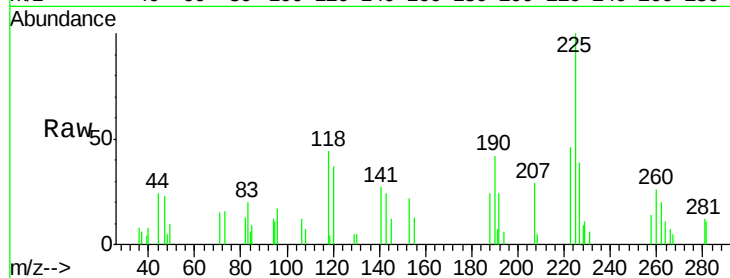
Tot Ion:225 Resp: 14657

Ion Ratio Lower Upper

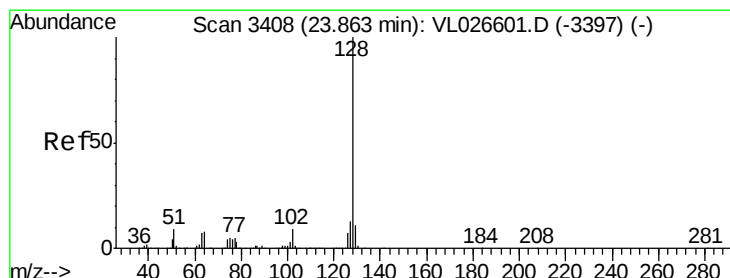
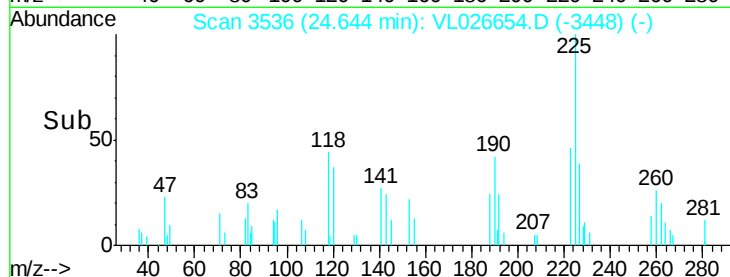
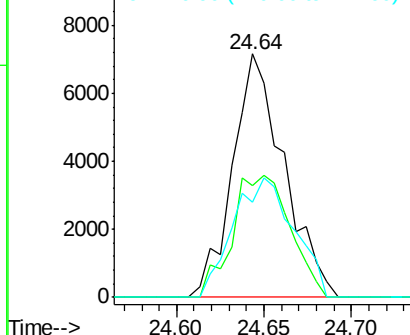
225 100

223 56.5 49.8 74.6

227 58.1 50.6 75.8



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.04 ppbv

RT: 23.92 min Scan# 3418

Delta R.T. 0.06 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

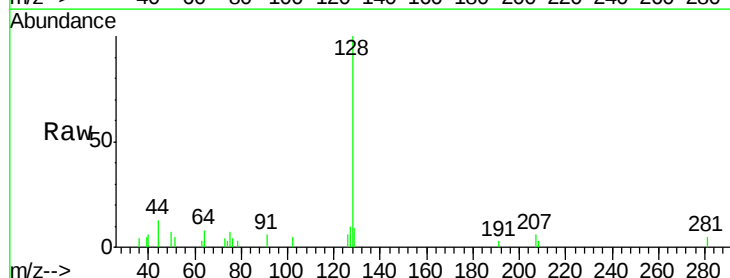
Tgt Ion:128 Resp: 15088

Ion Ratio Lower Upper

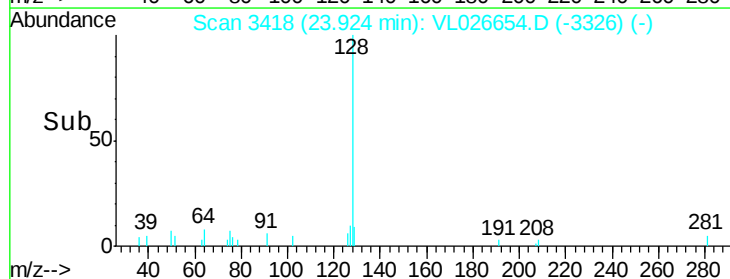
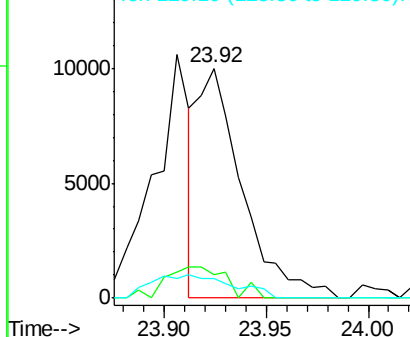
128 100

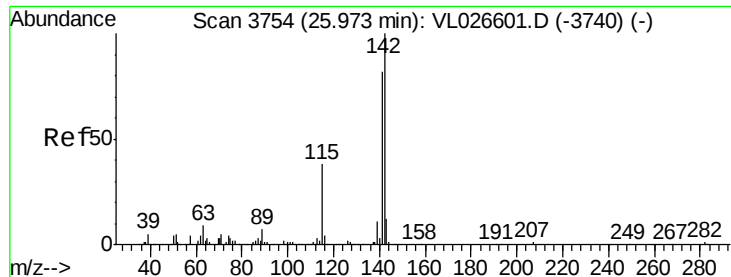
127 10.3 10.4 15.6#

129 8.7 8.5 12.7



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.16 ppbv

RT: 26.02 min Scan# 3761

Delta R.T. 0.04 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

ClientSampled :

VIBLK

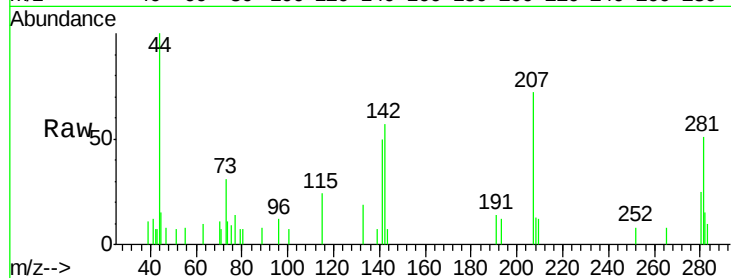
Tot Ion:142 Resp: 7890

Ion Ratio Lower Upper

142 100

141 106.7 66.2 99.2#

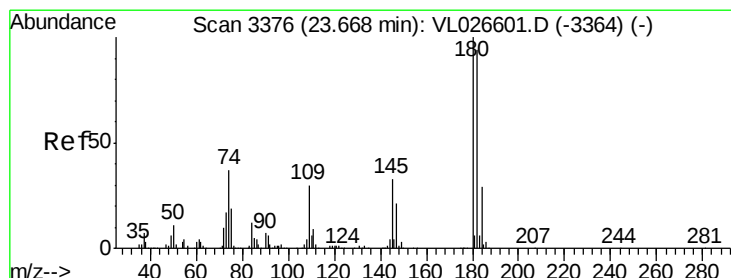
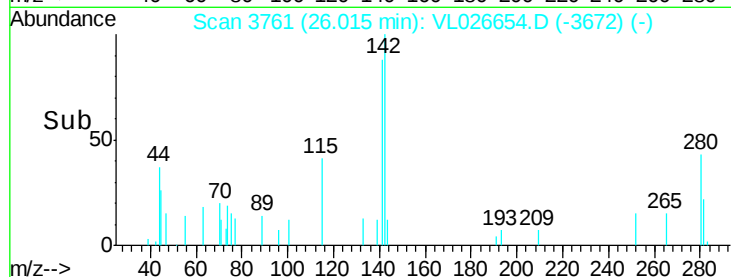
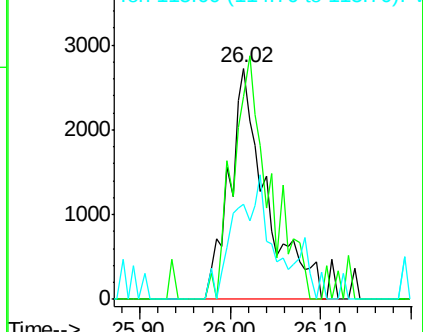
115 61.0 32.8 49.2#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 0.08 ppbv

RT: 23.71 min Scan# 3383

Delta R.T. 0.04 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

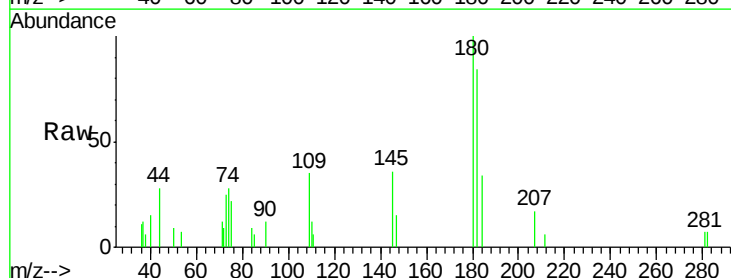
Tgt Ion:180 Resp: 13252

Ion Ratio Lower Upper

180 100

182 94.2 76.3 114.5

184 34.1 23.8 35.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

