

Data Path : W:\HPCHEM1\MSVOA L\Data\vl102115\
 Data File : VL026249.D
 Acq On : 21 Oct 2015 22:22
 Operator : SY/MD
 Sample : G4128-01DL3 667X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFDL3

Quant Time: Oct 22 08:38:58 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 21 01:20:55 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.62	49	431294	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	8.29	114	1246100	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.71	117	1543283	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.25	95	1213785	10.20	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

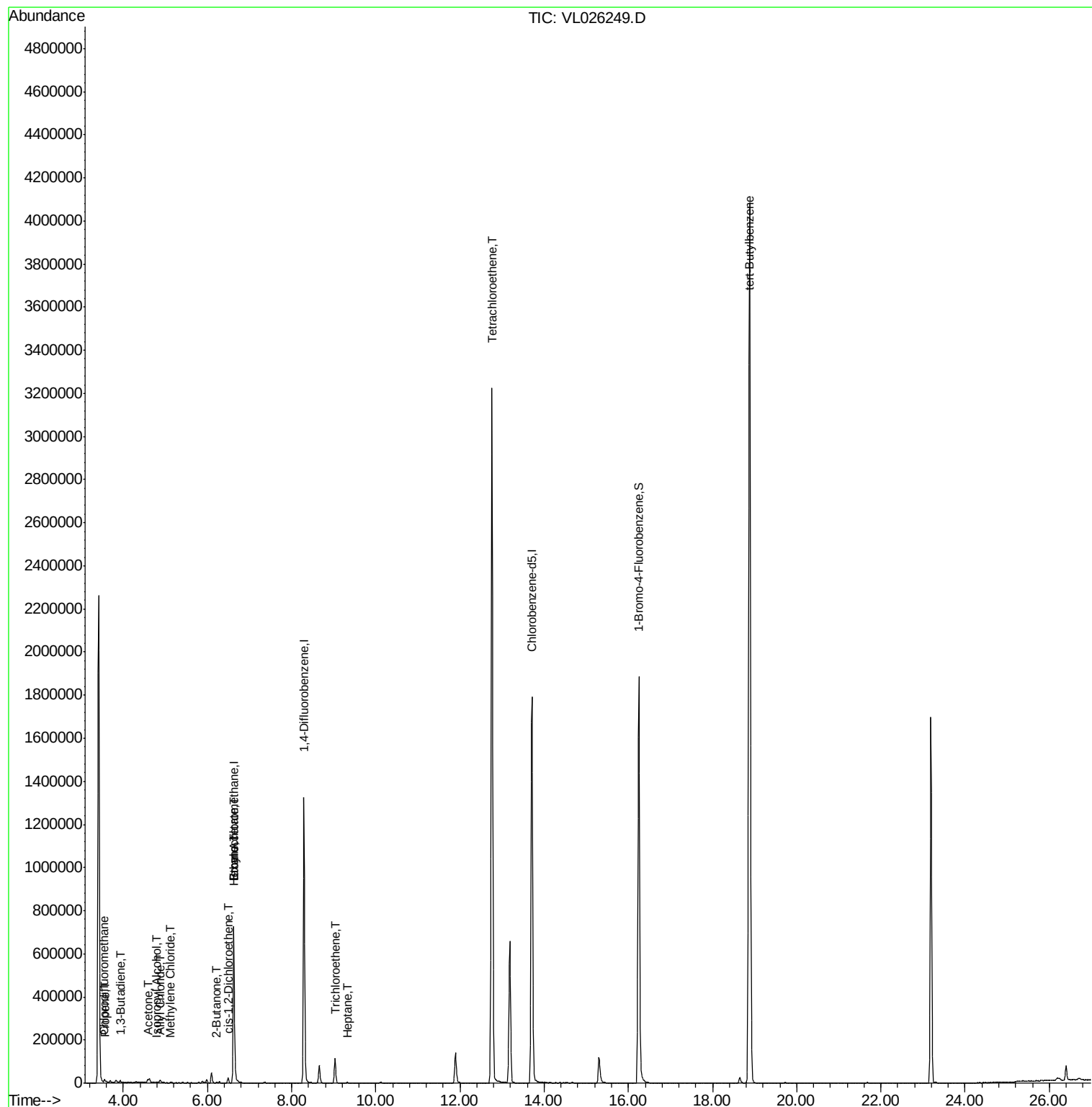
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.55	51	5771	0.11	ppbv	92
9) Propene	3.58	41	860	0.03	ppbv	92
10) Heptane	9.32	43	2102	0.02	ppbv	86
15) Acetone	4.58	43	4729	0.07	ppbv #	48
16) 1,3-Butadiene	3.93	39	2075	0.07	ppbv #	7
19) Isopropyl Alcohol	4.79	45	879	0.04	ppbv #	1
20) Methylene Chloride	5.12	84	1222	0.05	ppbv #	72
21) Allyl Chloride	4.87	41	4337	0.10	ppbv #	46
25) Ethyl Acetate	6.63	43	3229	0.03	ppbv #	1
26) Hexane	6.63	57	4817	0.08	ppbv #	45
31) cis-1,2-Dichloroethene	6.49	61	17329	0.32	ppbv	91
34) 2-Butanone	6.22	43	4832	0.07	ppbv #	86
38) Trichloroethene	9.03	130	47617	0.77	ppbv	99
52) Tetrachloroethene	12.76	164	1094000	15.03	ppbv	97
65) tert-Butylbenzene	18.88	119	80113	0.31	ppbv #	25

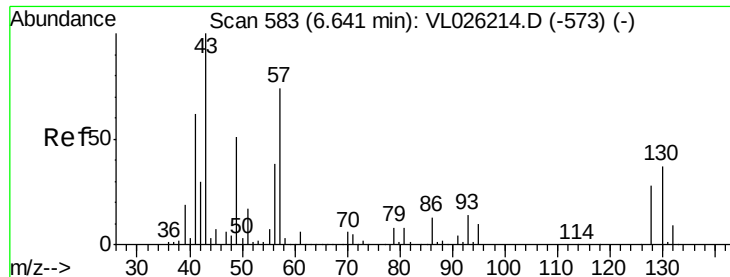
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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INFDL3

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Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 21 01:20:55 2015
QLast Update : Wed Oct 21 01:20:55 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.62 min Scan# 580

Delta R.T. -0.02 min

Lab File: VL026249.D

Acq: 21 Oct 2015 22:22

Instrument :

MSVOA_L

ClientSampleId :

INFDL3

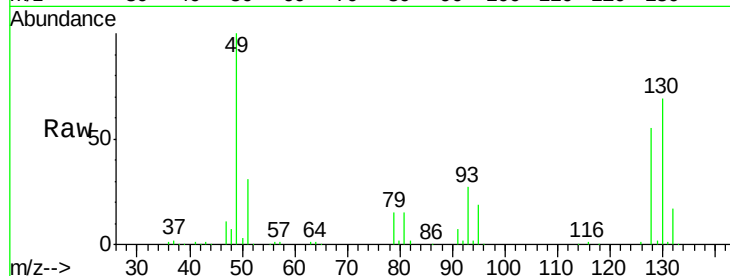
Tot Ion: 49 Resp: 431294

Ion Ratio Lower Upper

49 100

128 57.0 28.2 84.7

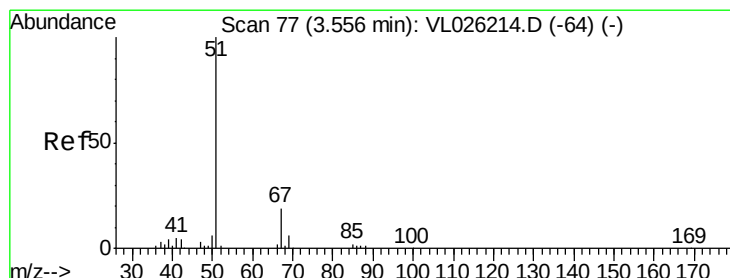
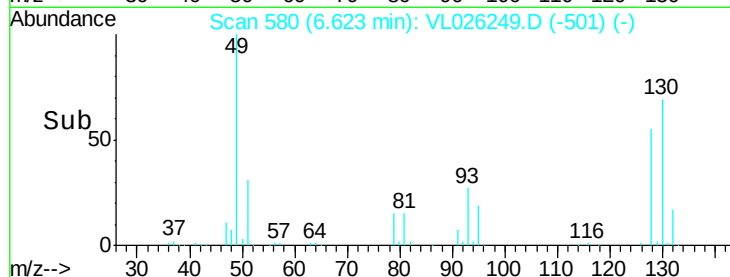
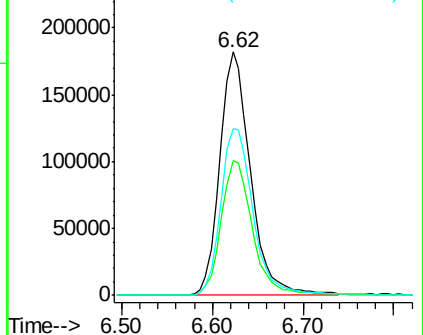
130 72.7 36.0 108.1



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



#3

Chlorodifluoromethane

Concen: 0.11 ppbv

RT: 3.55 min Scan# 76

Delta R.T. -0.01 min

Lab File: VL026249.D

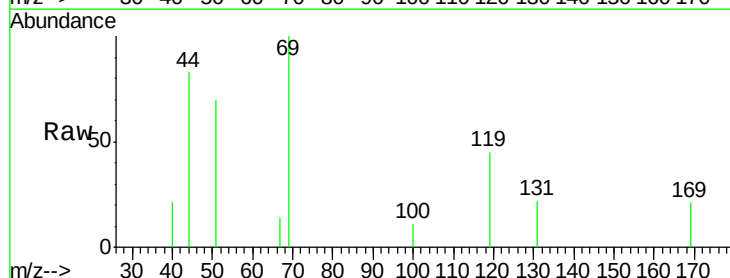
Acq: 21 Oct 2015 22:22

Tgt Ion: 51 Resp: 5771

Ion Ratio Lower Upper

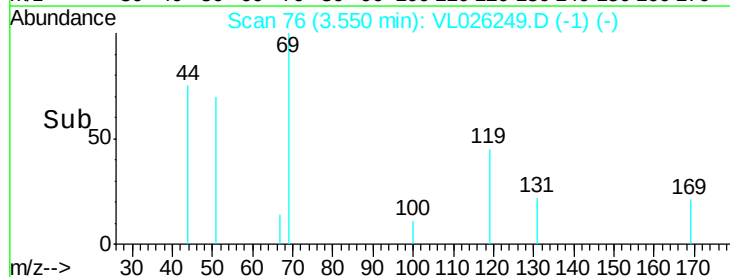
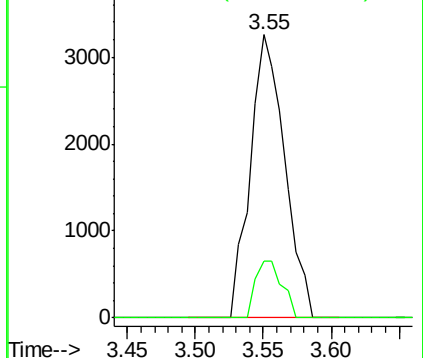
51 100

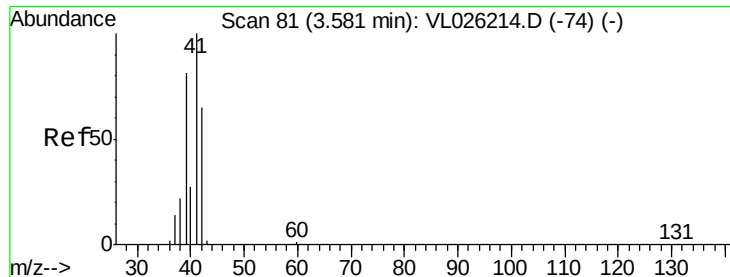
67 15.7 15.3 22.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.03 ppbv

RT: 3.58 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL026249.D

Acq: 21 Oct 2015 22:22

Instrument :

MSVOA_L

ClientSampleId :

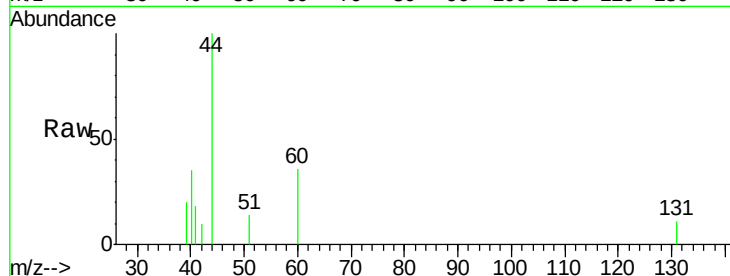
INFDL3

Tot Ion: 41 Resp: 860

Ion Ratio Lower Upper

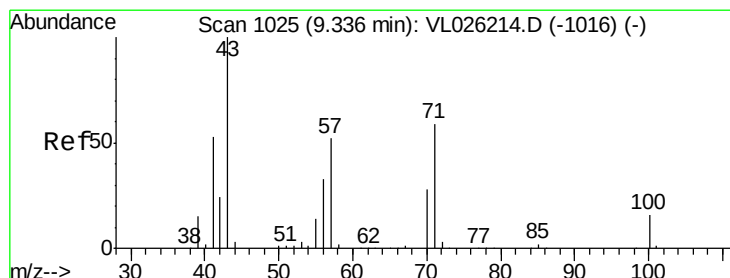
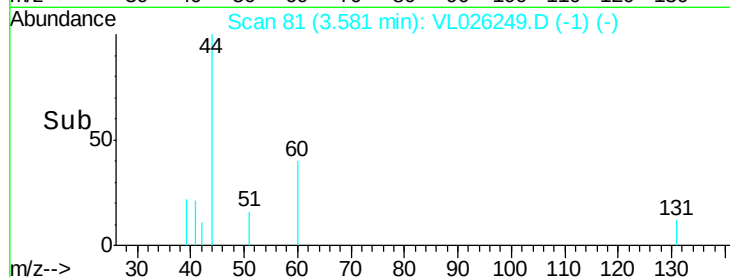
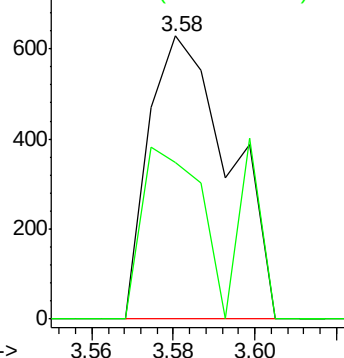
41 100

42 61.0 53.8 80.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.02 ppbv

RT: 9.32 min Scan# 1023

Delta R.T. -0.01 min

Lab File: VL026249.D

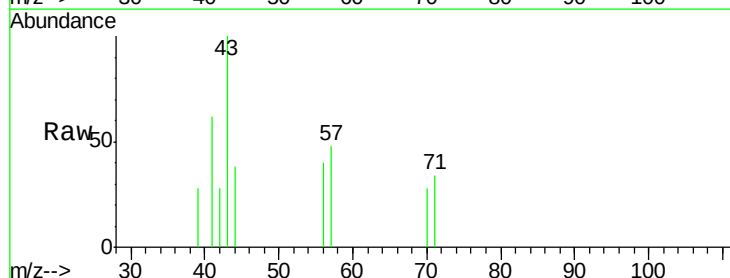
Acq: 21 Oct 2015 22:22

Tgt Ion: 43 Resp: 2102

Ion Ratio Lower Upper

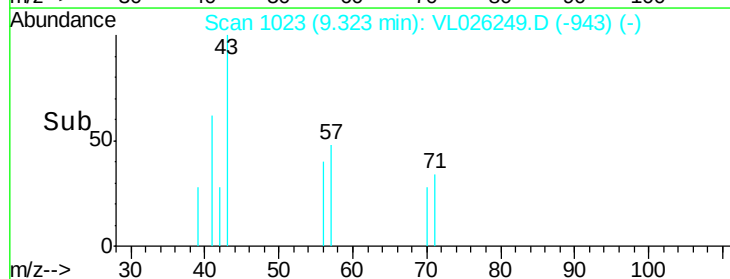
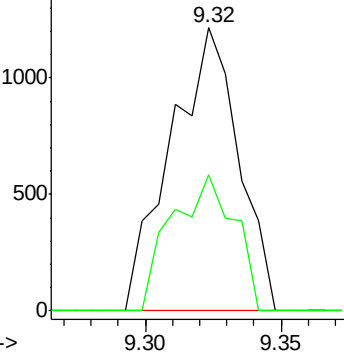
43 100

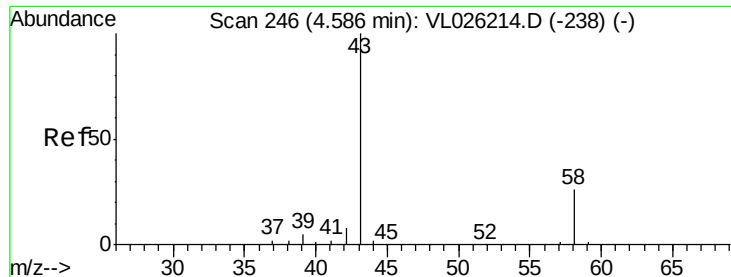
57 44.4 43.7 65.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#15

Acetone

Concen: 0.07 ppbv

RT: 4.58 min Scan# 245

Delta R.T. -0.01 min

Lab File: VL026249.D

Acq: 21 Oct 2015 22:22

Instrument :

MSVOA_L

ClientSampleId :

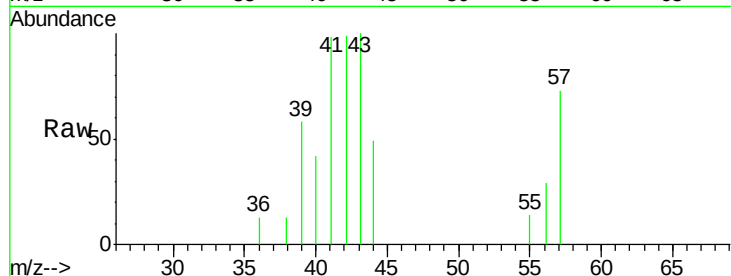
INFDL3

Tot Ion: 43 Resp: 4729

Ion Ratio Lower Upper

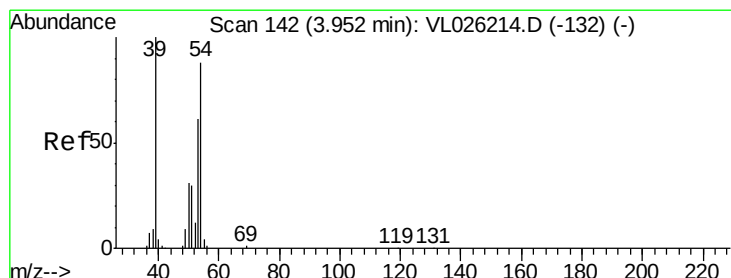
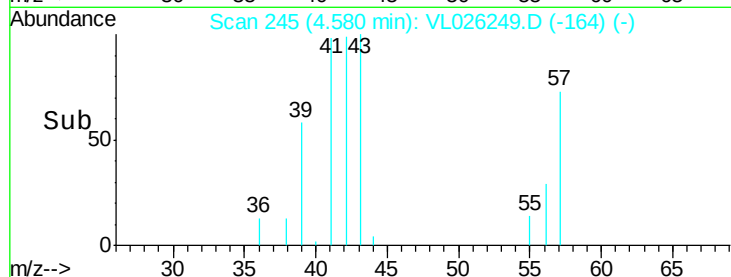
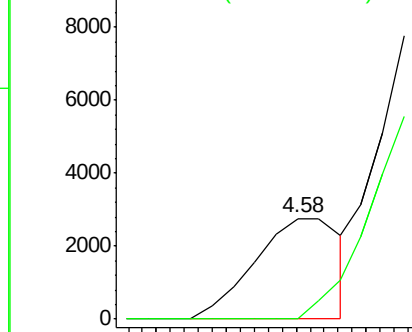
43 100

58 0.0 21.8 32.6#



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: 3.93 min Scan# 138

Delta R.T. -0.02 min

Lab File: VL026249.D

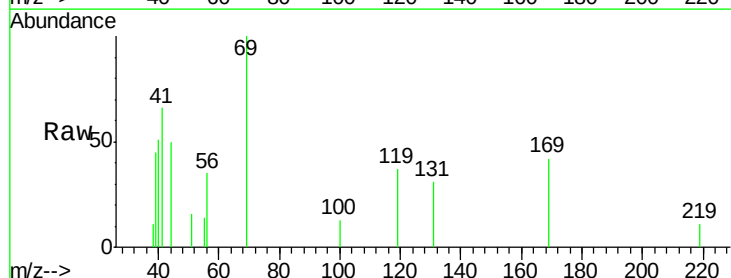
Acq: 21 Oct 2015 22:22

Tgt Ion: 39 Resp: 2075

Ion Ratio Lower Upper

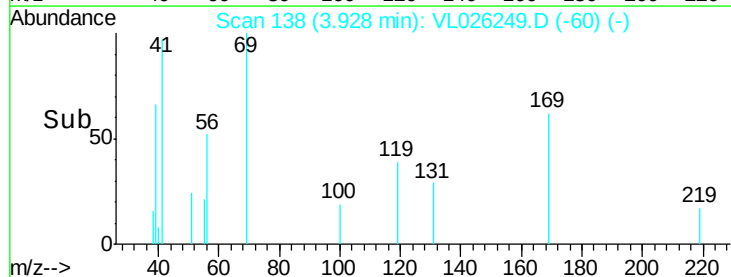
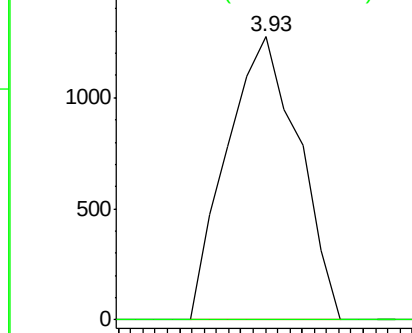
39 100

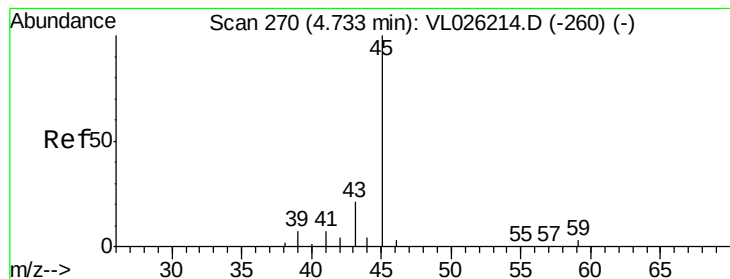
54 0.0 67.3 100.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.04 ppbv

RT: 4.79 min Scan# 280

Delta R.T. 0.06 min

Lab File: VL026249.D

Acq: 21 Oct 2015 22:22

Instrument :

MSVOA_L

ClientSampleId :

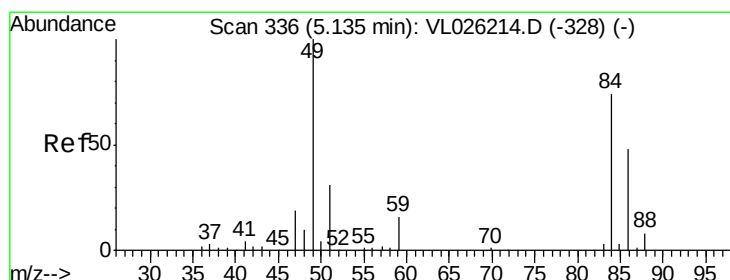
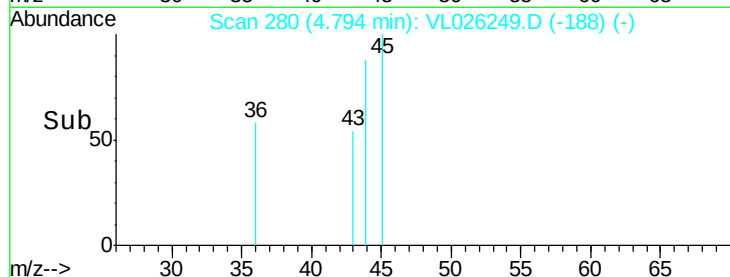
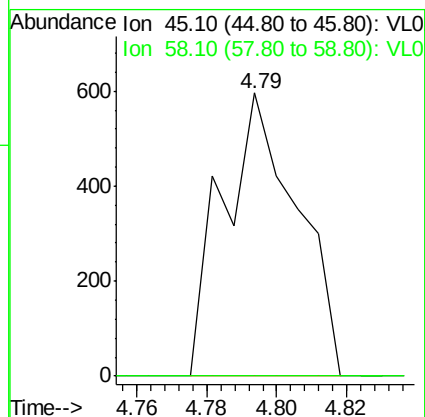
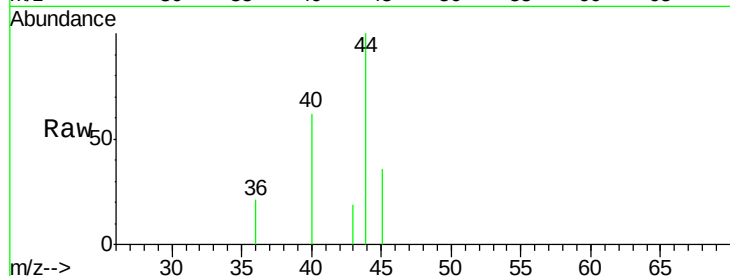
INFDL3

Tot Ion: 45 Resp: 879

Ion Ratio Lower Upper

45 100

58 1513.2 40.3 60.5#



#20

Methylene Chloride

Concen: 0.05 ppbv

RT: 5.12 min Scan# 334

Delta R.T. -0.01 min

Lab File: VL026249.D

Acq: 21 Oct 2015 22:22

Tgt Ion: 84 Resp: 1222

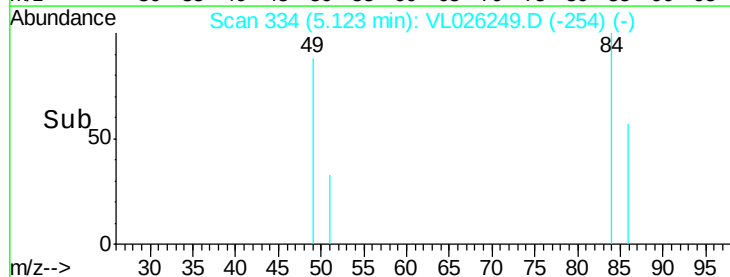
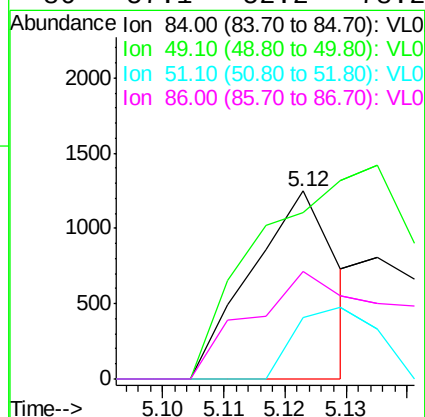
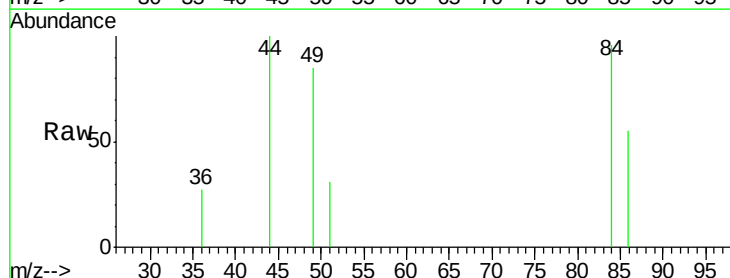
Ion Ratio Lower Upper

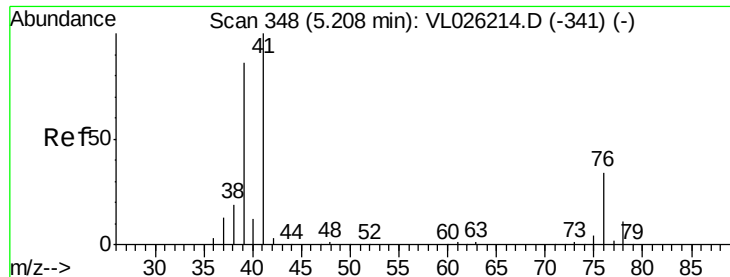
84 100

49 88.2 108.7 163.1#

51 32.6 33.7 50.5#

86 57.1 52.2 78.2

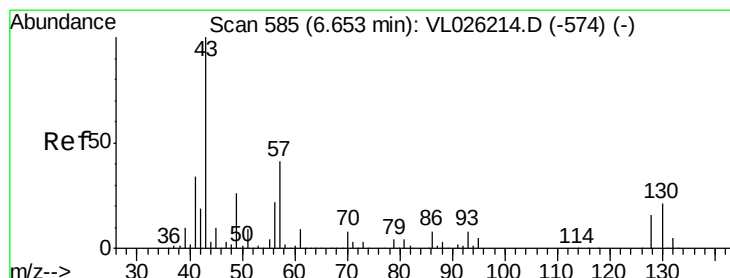
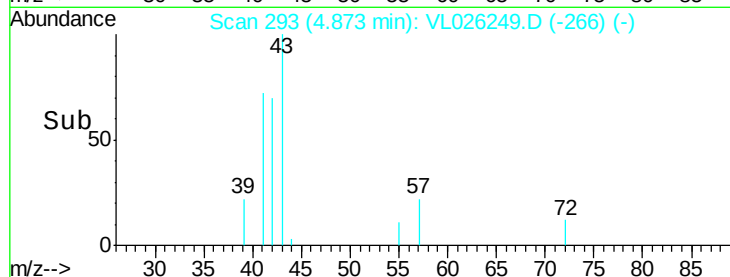
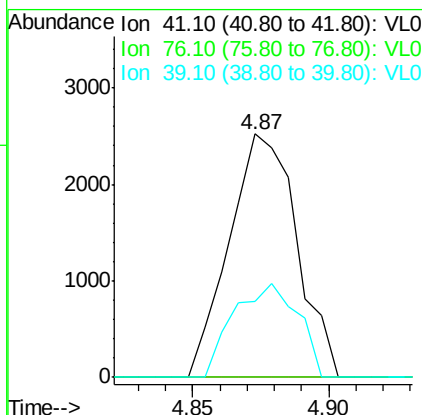
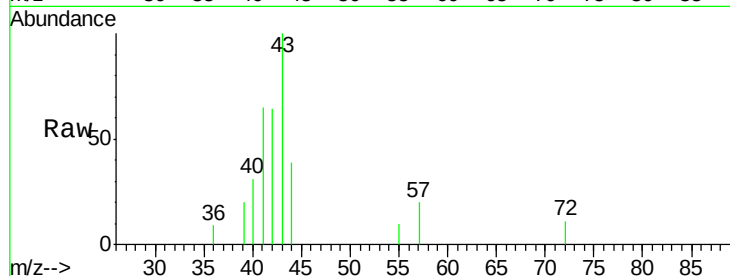




#21
Allvl Chloride
Concen: 0.10 ppbv
RT: 4.87 min Scan# 293
Delta R.T. -0.34 min
Lab File: VL026249.D
Acq: 21 Oct 2015 22:22

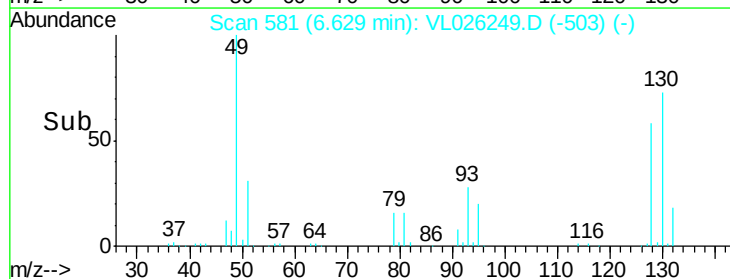
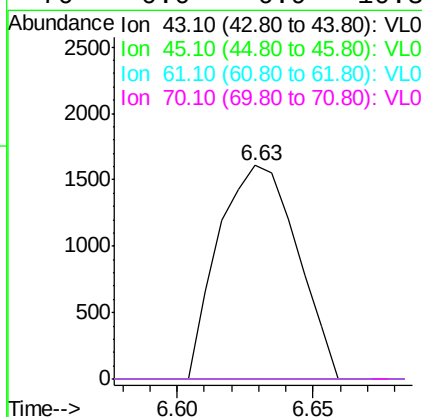
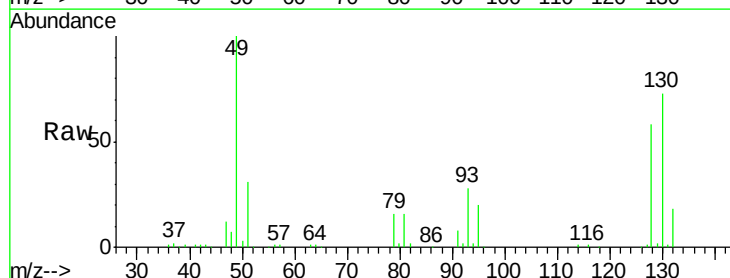
Instrument :
MSVOA_L
ClientSampleId :
INFDL3

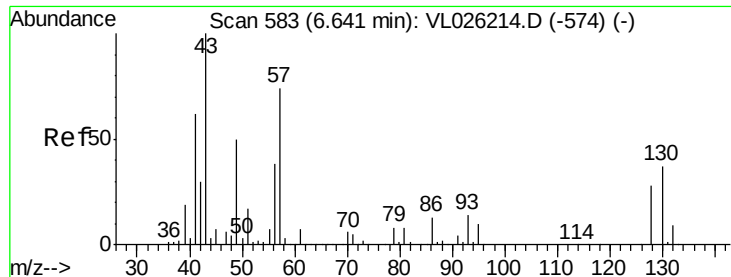
Tot Ion: 41 Resp: 4337
Ion Ratio Lower Upper
41 100
76 0.0 26.6 39.8#
39 36.7 67.4 101.2#



#25
Ethyl Acetate
Concen: 0.03 ppbv
RT: 6.63 min Scan# 581
Delta R.T. -0.02 min
Lab File: VL026249.D
Acq: 21 Oct 2015 22:22

Tgt Ion: 43 Resp: 3229
Ion Ratio Lower Upper
43 100
45 0.0 7.7 11.5#
61 536.7 7.5 11.3#
70 0.0 6.9 10.3#

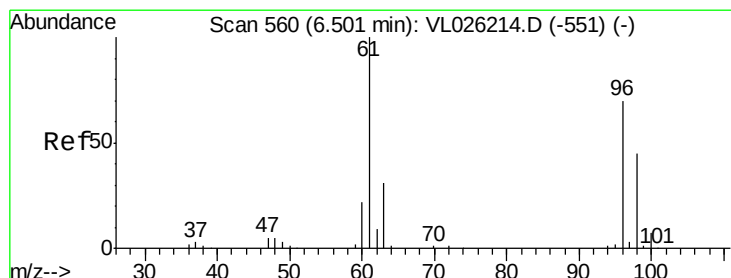
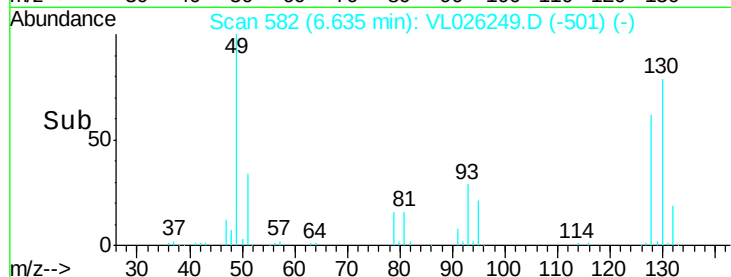
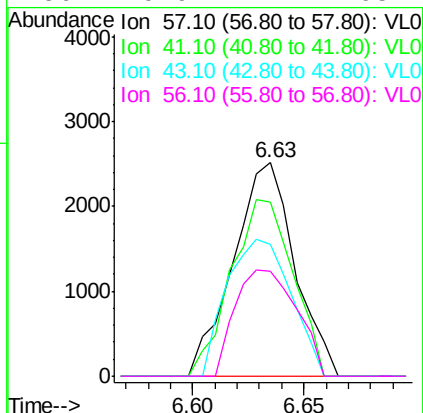
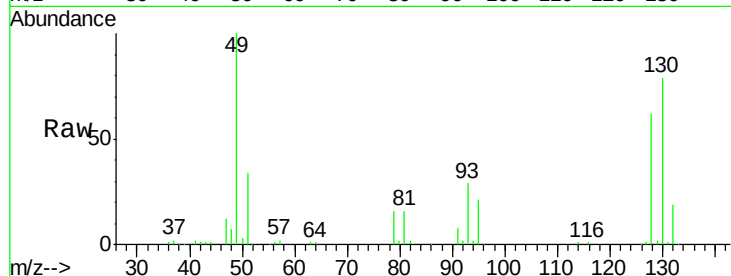




#26
Hexane
Concen: 0.08 ppbv
RT: 6.63 min Scan# 582
Delta R.T. -0.01 min
Lab File: VL026249.D
Acq: 21 Oct 2015 22:22

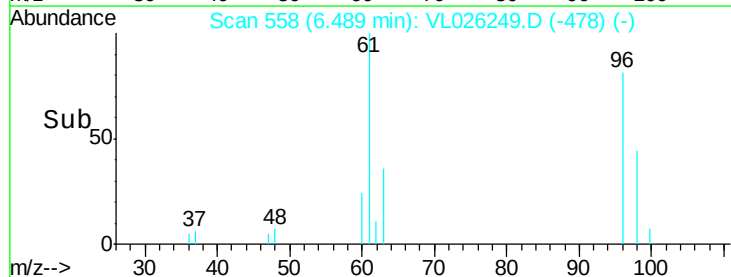
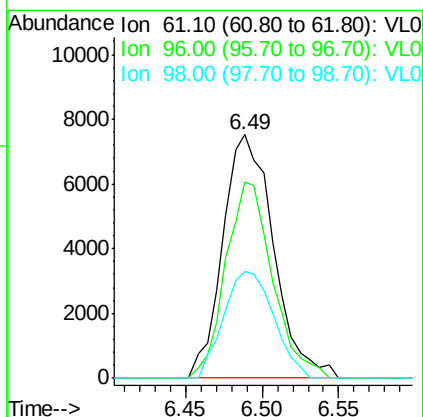
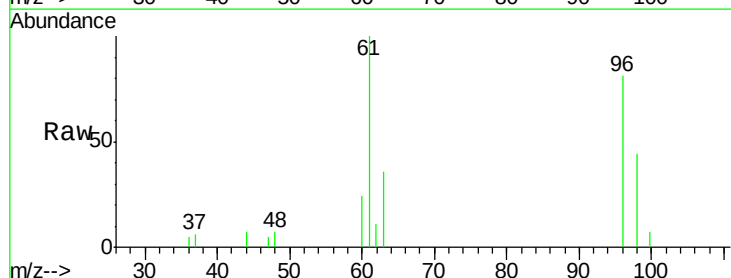
Instrument :
MSVOA_L
ClientSampleId :
INFDL3

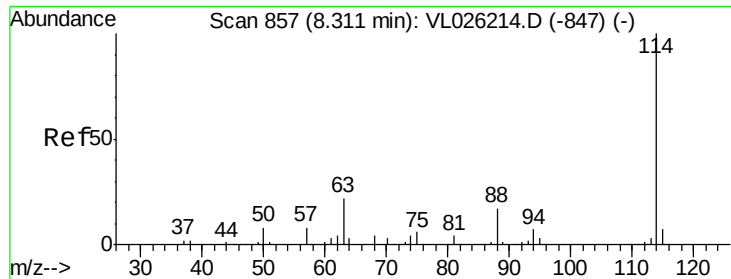
Tot Ion: 57 Resp: 4817
Ion Ratio Lower Upper
57 100
41 83.2 68.1 102.1
43 67.0 163.4 245.2#
56 49.9 42.2 63.4



#31
cis-1,2-Dichloroethene
Concen: 0.32 ppbv
RT: 6.49 min Scan# 558
Delta R.T. -0.01 min
Lab File: VL026249.D
Acq: 21 Oct 2015 22:22

Tgt Ion: 61 Resp: 17329
Ion Ratio Lower Upper
61 100
96 80.8 56.0 84.0
98 44.0 36.1 54.1

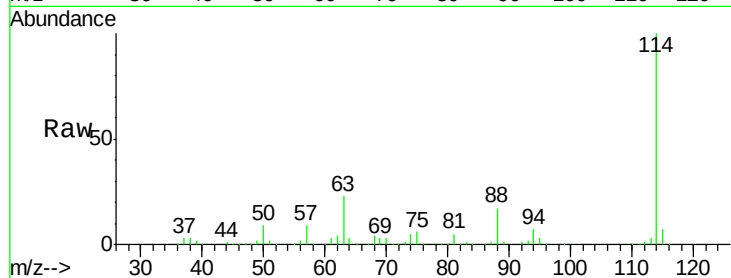




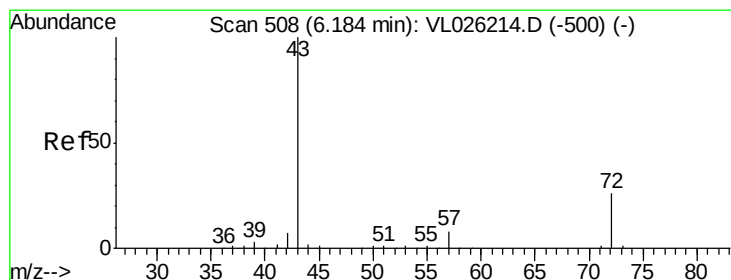
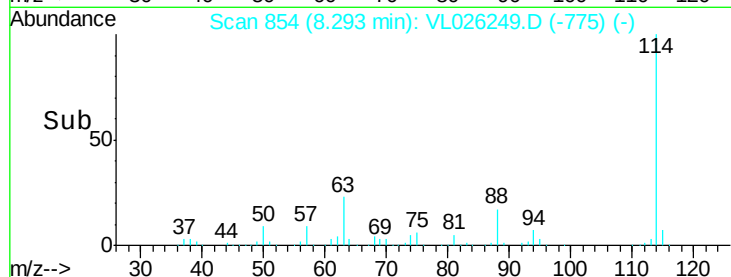
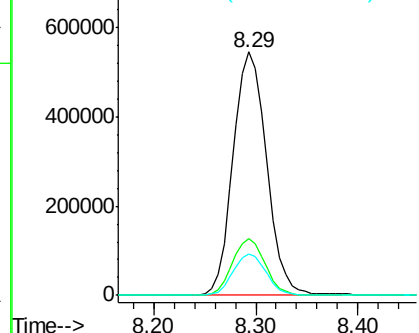
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.29 min Scan# 854
 Delta R.T. -0.02 min
 Lab File: VL026249.D
 Acq: 21 Oct 2015 22:22

Instrument :
 MSVOA_L
 ClientSampleId :
 INFDL3

Tot Ion:114 Resp: 1246100
 Ion Ratio Lower Upper
 114 100
 63 22.9 18.2 27.4
 88 16.8 13.5 20.3

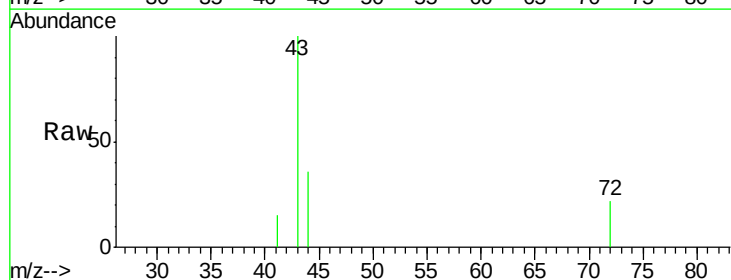


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

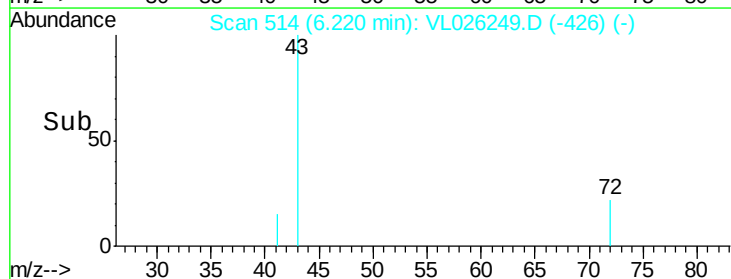
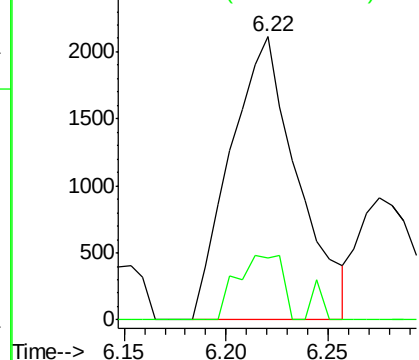


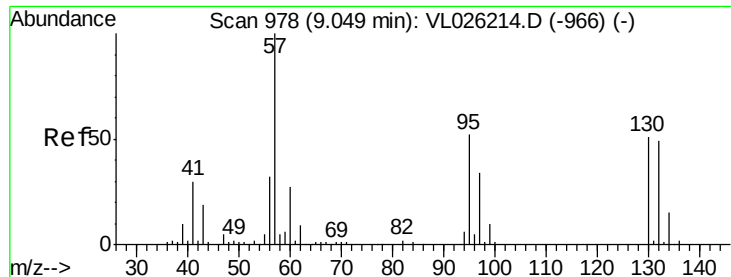
#34
 2-Butanone
 Concen: 0.07 ppbv
 RT: 6.22 min Scan# 514
 Delta R.T. 0.04 min
 Lab File: VL026249.D
 Acq: 21 Oct 2015 22:22

Tgt Ion: 43 Resp: 4832
 Ion Ratio Lower Upper
 43 100
 72 17.8 20.1 30.1#



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





#38

Trichloroethene

Concen: 0.77 ppbv

RT: 9.03 min Scan# 975

Delta R.T. -0.02 min

Lab File: VL026249.D

Acq: 21 Oct 2015 22:22

Instrument :

MSVOA_L

ClientSampleId :

INFDL3

Tot Ion:130 Resp: 47617

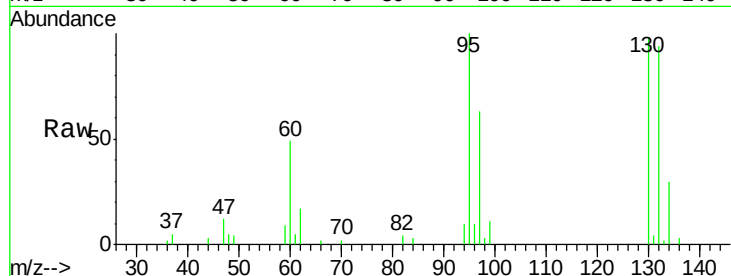
Ion Ratio Lower Upper

130 100

95 102.2 81.0 121.4

132 95.7 76.5 114.7

97 64.4 52.5 78.7

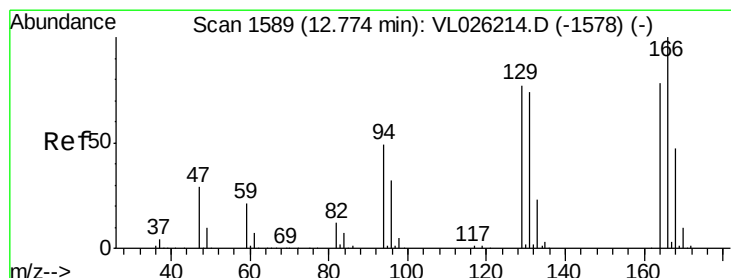
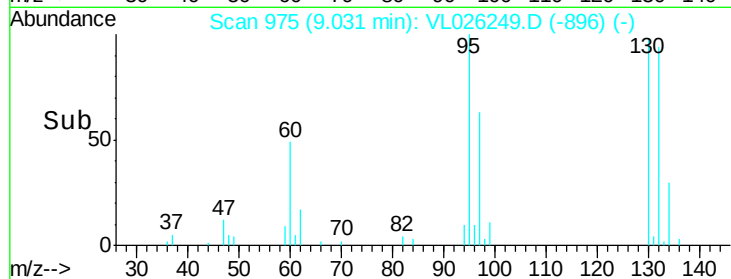
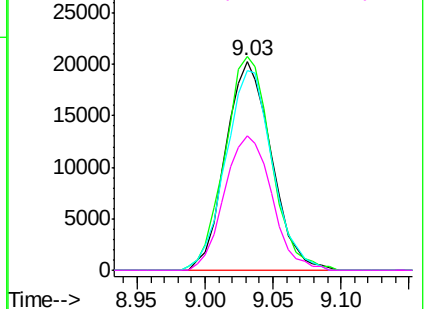


Abundance Ion 130.00 (129.70 to 130.70): V

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



#52

Tetrachloroethene

Concen: 15.03 ppbv

RT: 12.76 min Scan# 1586

Delta R.T. -0.02 min

Lab File: VL026249.D

Acq: 21 Oct 2015 22:22

Tgt Ion:164 Resp: 1094000

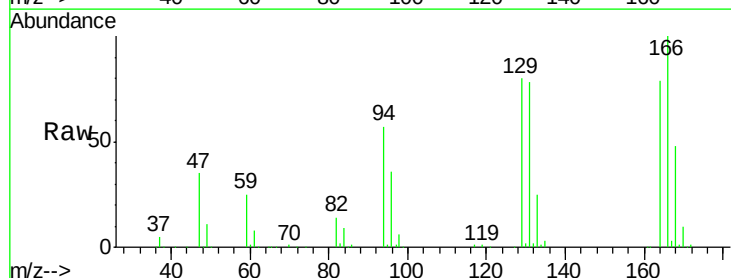
Ion Ratio Lower Upper

164 100

166 126.0 102.3 153.5

129 100.6 78.2 117.4

131 98.2 75.7 113.5

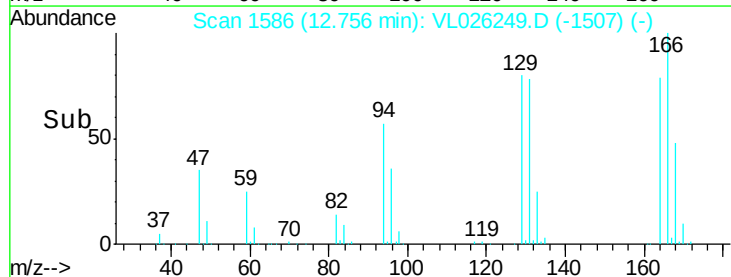
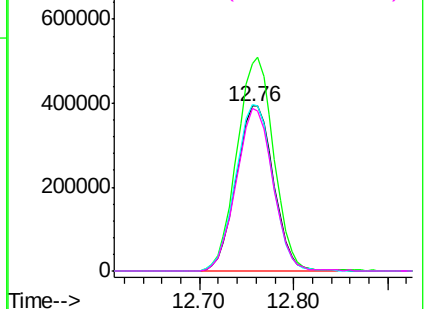


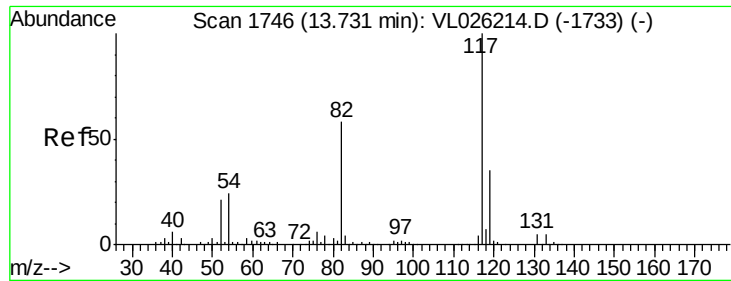
Abundance Ion 163.90 (163.60 to 164.60): V

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





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.71 min Scan# 1742

Delta R.T. -0.02 min

Lab File: VL026249.D

Acq: 21 Oct 2015 22:22

Instrument :

MSVOA_L

ClientSampleId :

INFDL3

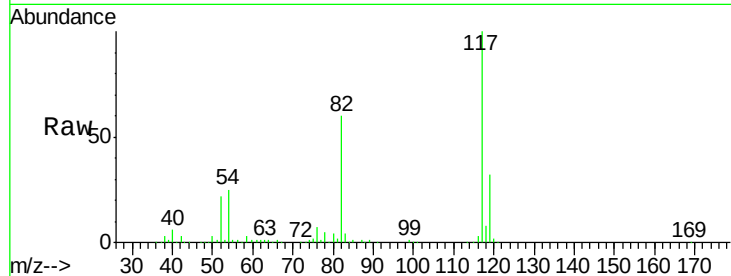
Tot Ion:117 Resp: 1543283

Ion Ratio Lower Upper

117 100

82 60.4 45.8 68.8

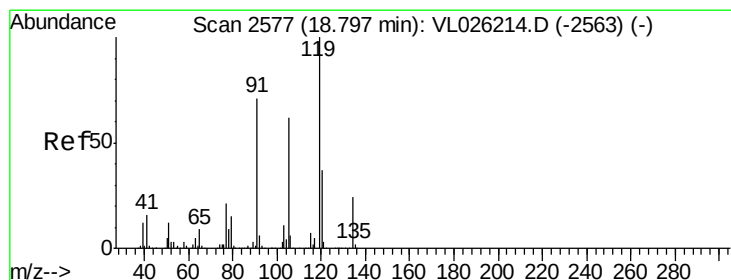
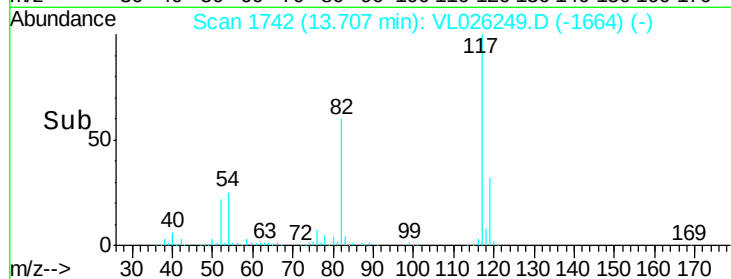
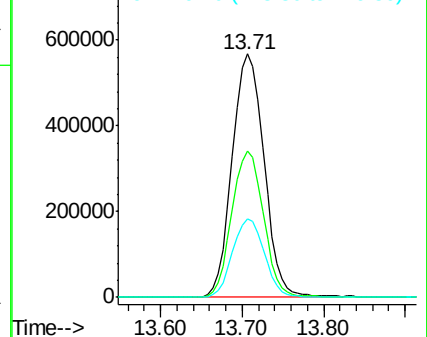
119 33.0 45.0 67.4#



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



#65

tert-Butylbenzene

Concen: 0.31 ppbv

RT: 18.88 min Scan# 2590

Delta R.T. 0.08 min

Lab File: VL026249.D

Acq: 21 Oct 2015 22:22

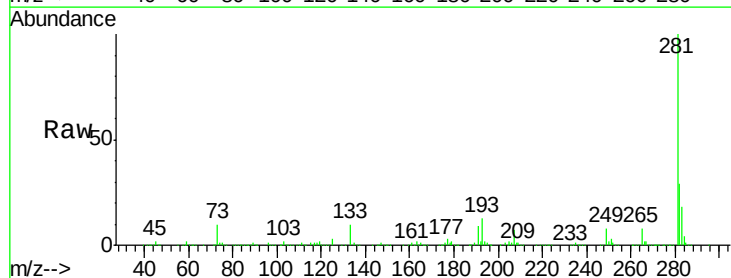
Tgt Ion:119 Resp: 80113

Ion Ratio Lower Upper

119 100

91 2.4 57.5 86.3#

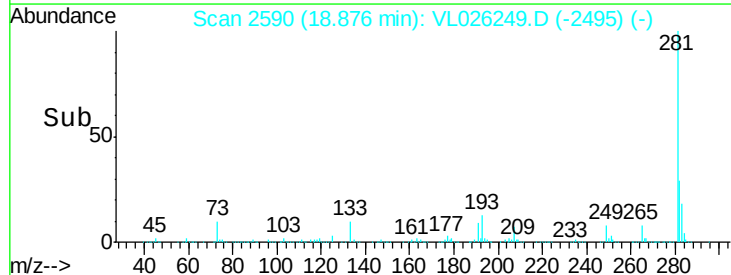
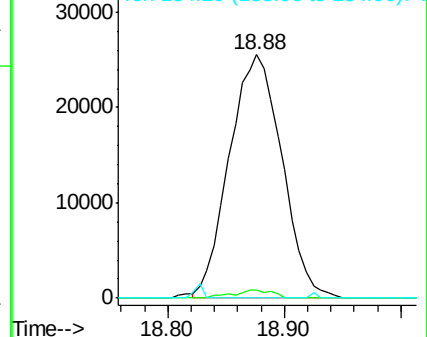
134 0.2 18.1 27.1#

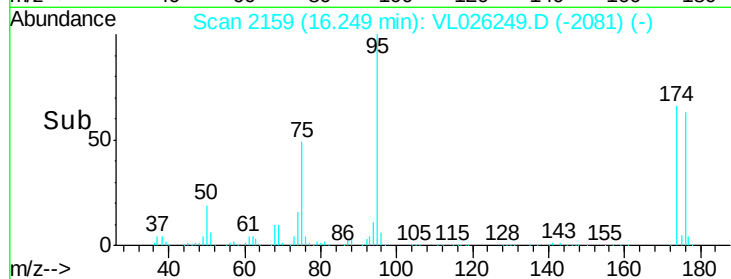
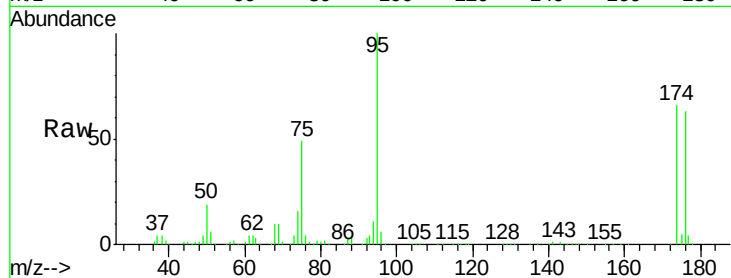
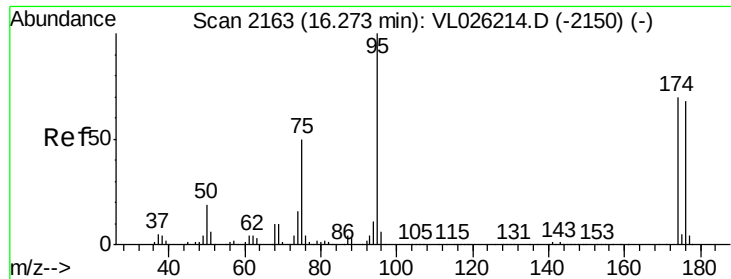


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.20 ppbv

RT: 16.25 min Scan# 2159

Delta R.T. -0.02 min

Lab File: VL026249.D

Acq: 21 Oct 2015 22:22

Instrument :

MSVOA_L

ClientSampleId :

INFDL3

Tot Ion: 95 Resp: 1213785

Ion Ratio Lower Upper

95 100

174 67.2 55.8 83.8

175 4.9 4.3 6.5

