

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL102115\
 Data File : VL026248.D
 Acq On : 21 Oct 2015 21:44
 Operator : SY/MD
 Sample : G4128-01DL2 120X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFDL2

Quant Time: Oct 22 08:38:39 2015
 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.62	49	441981	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	8.29	114	1268048	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.71	117	1543687	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.25	95	1238675	10.40	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

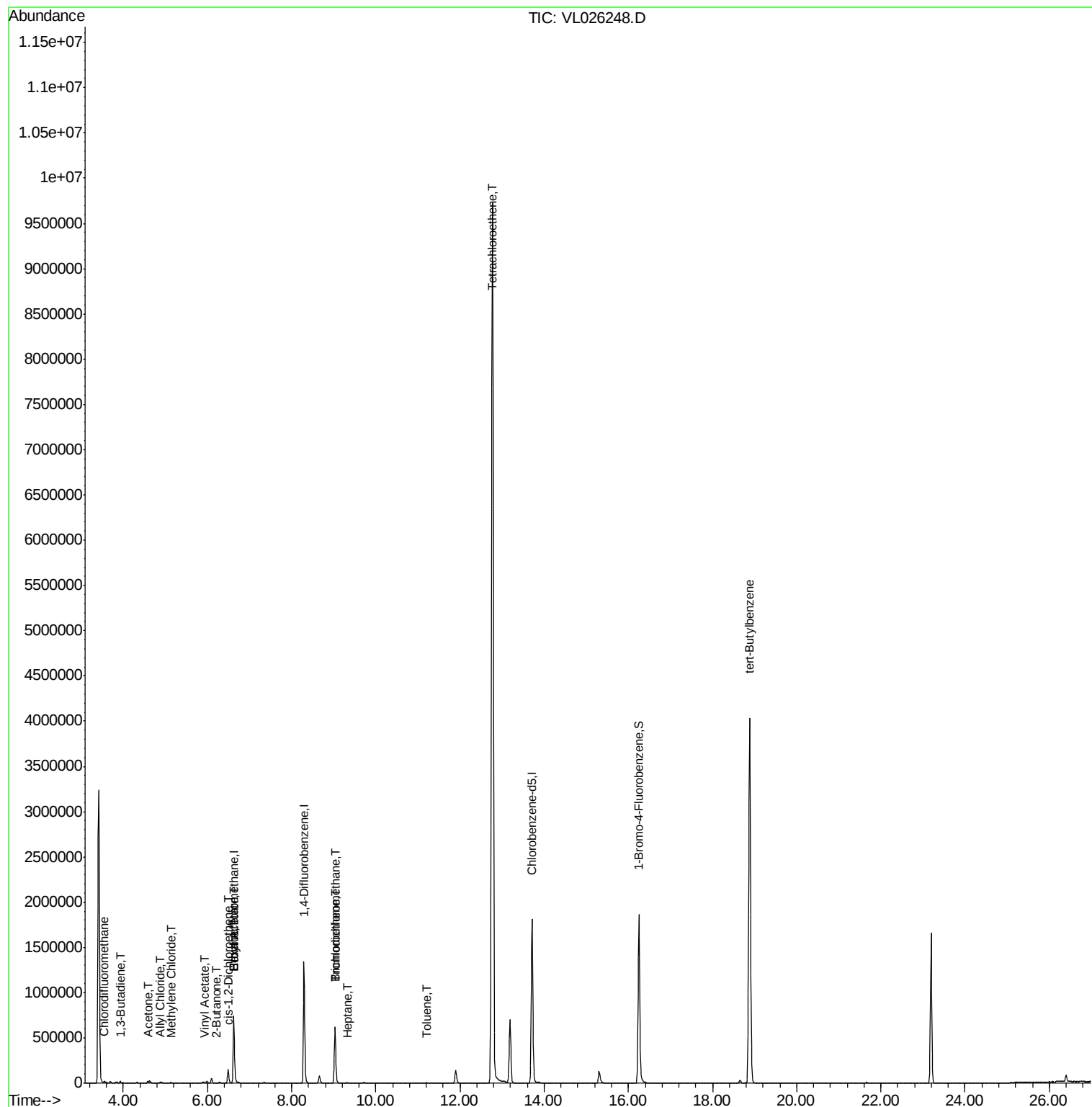
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.56	51	7076	0.13	ppbv #	86
10) Heptane	9.32	43	2519	0.03	ppbv	98
15) Acetone	4.59	43	6419	0.10	ppbv #	48
16) 1,3-Butadiene	3.93	39	2867	0.10	ppbv #	7
20) Methylene Chloride	5.13	84	2443	0.09	ppbv #	84
21) Allyl Chloride	4.87	41	4425	0.10	ppbv #	50
23) Vinyl Acetate	5.93	43	2418	0.02	ppbv #	1
25) Ethyl Acetate	6.63	43	3681	0.03	ppbv #	1
26) Hexane	6.63	57	4963	0.08	ppbv #	47
31) cis-1,2-Dichloroethene	6.49	61	107800	1.95	ppbv	98
34) 2-Butanone	6.22	43	4942	0.07	ppbv #	87
38) Trichloroethene	9.03	130	261562	4.17	ppbv	98
42) Bromodichloromethane	9.03	83	3288	0.03	ppbv #	75
52) Tetrachloroethene	12.77	164	3902136	52.69	ppbv	98
53) Toluene	11.21	91	6453	0.04	ppbv	96
65) tert-Butylbenzene	18.88	119	81104	0.31	ppbv #	25

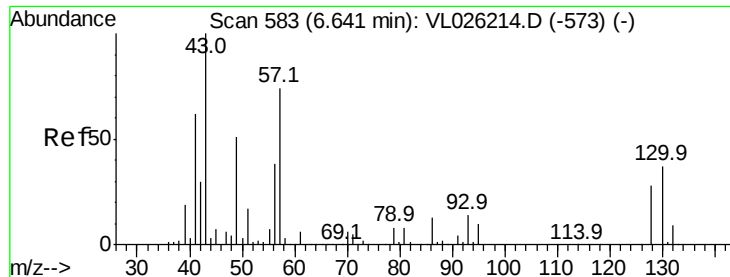
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL102115\
Data File : VL026248.D
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Sample : G4128-01DL2 120X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
INFDL2

Quant Time: Oct 22 08:38:39 2015
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: VL026248.D

Acq: 21 Oct 2015 21:44

Instrument :

MSVOA_L

ClientSampleId :

INFDL2

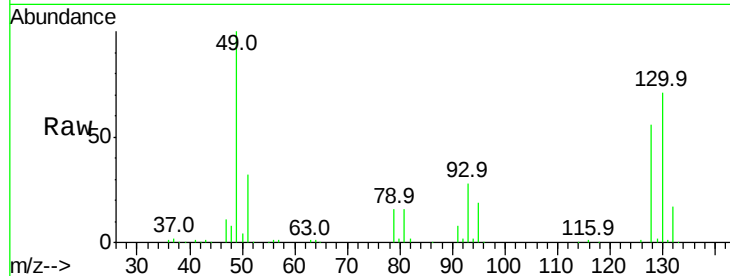
Tgt Ion: 49 Resp: 441981

Ion Ratio Lower Upper

49 100

128 56.1 28.2 84.7

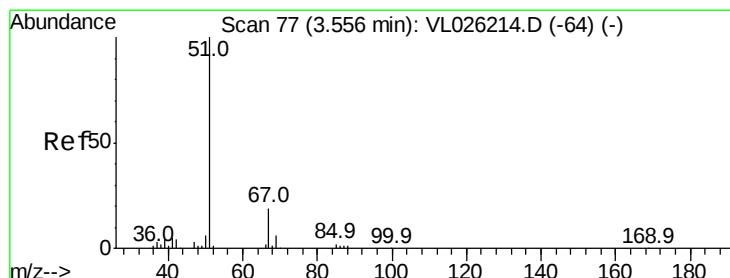
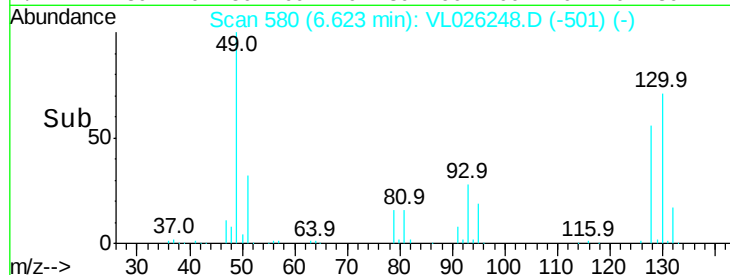
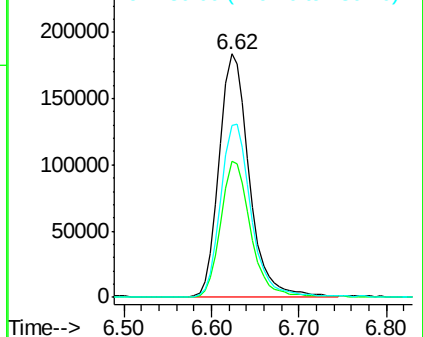
130 73.1 36.0 108.1



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: 0.13 ppbv

RT: 3.56 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL026248.D

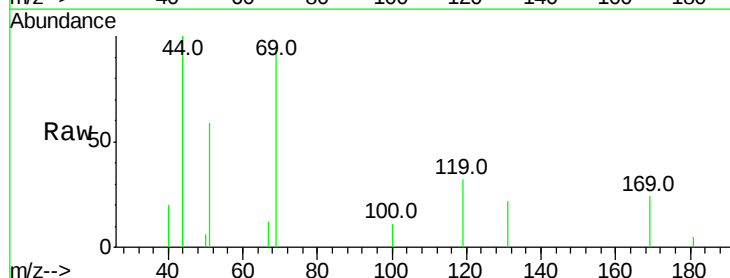
Acq: 21 Oct 2015 21:44

Tgt Ion: 51 Resp: 7076

Ion Ratio Lower Upper

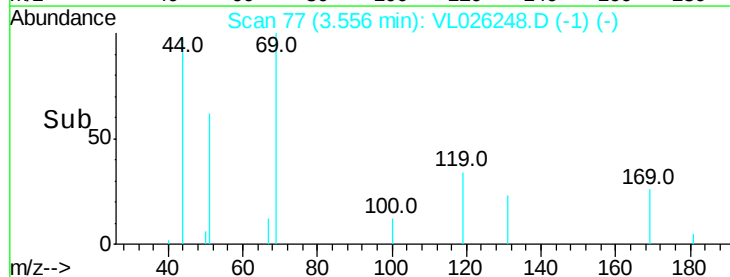
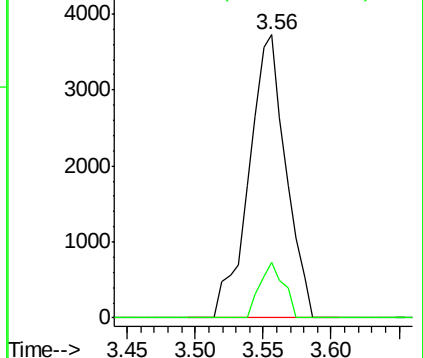
51 100

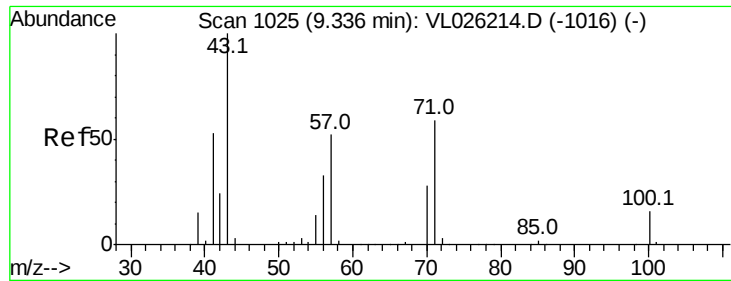
67 12.9 15.3 22.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#10

Heptane

Concen: 0.03 ppbv

RT: 9.32 min Scan# 1023

Delta R.T. -0.01 min

Lab File: VL026248.D

Acq: 21 Oct 2015 21:44

Instrument :

MSVOA_L

ClientSampleId :

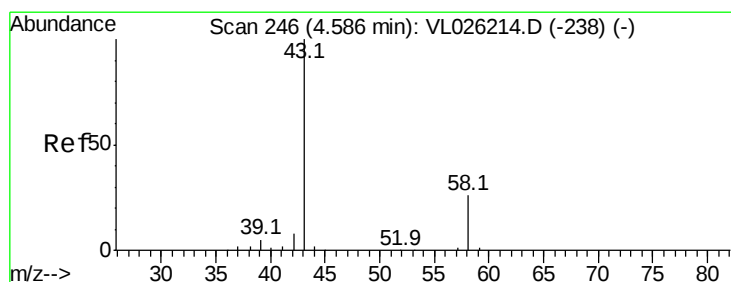
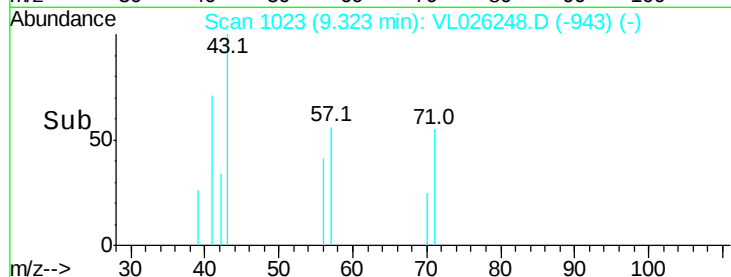
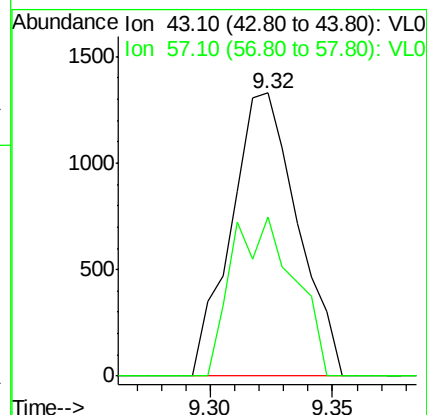
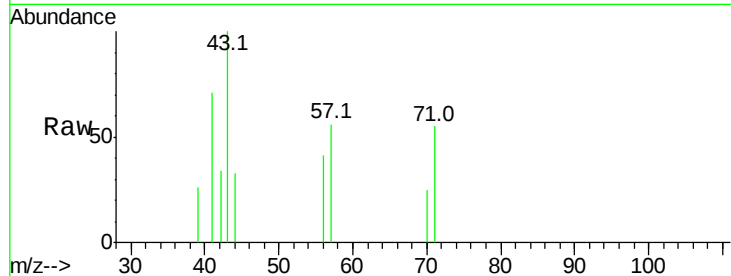
INFDL2

Tgt Ion: 43 Resp: 2519

Ion Ratio Lower Upper

43 100

57 53.5 43.7 65.5



#15

Acetone

Concen: 0.10 ppbv

RT: 4.59 min Scan# 246

Delta R.T. 0.00 min

Lab File: VL026248.D

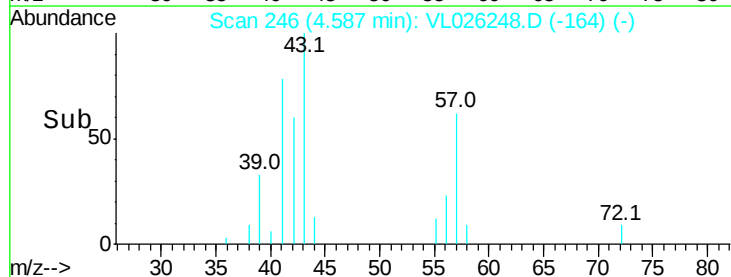
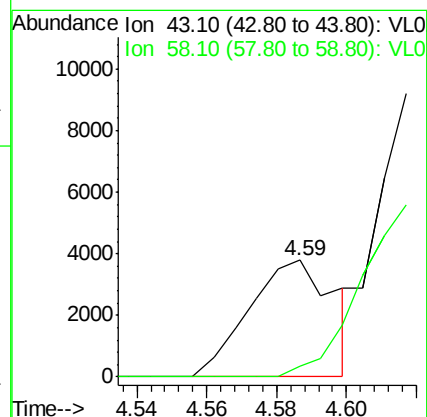
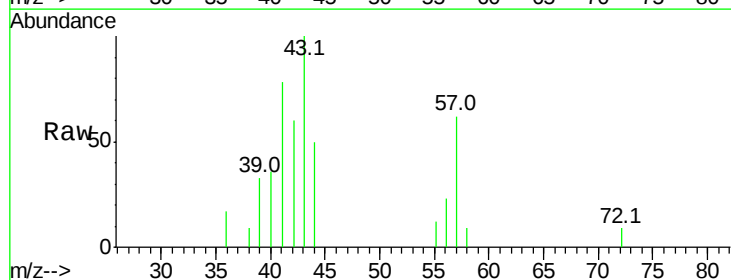
Acq: 21 Oct 2015 21:44

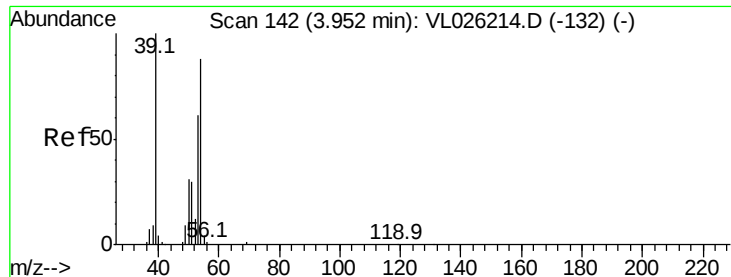
Tgt Ion: 43 Resp: 6419

Ion Ratio Lower Upper

43 100

58 0.0 21.8 32.6#





#16

1,3-Butadiene

Concen: 0.10 ppbv

RT: 3.93 min Scan# 138

Delta R.T. -0.02 min

Lab File: VL026248.D

Acq: 21 Oct 2015 21:44

Instrument :

MSVOA_L

ClientSampleId :

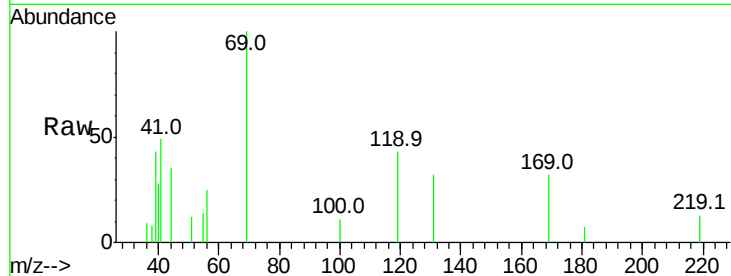
INFDL2

Tgt Ion: 39 Resp: 2867

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

3.93

2000

1500

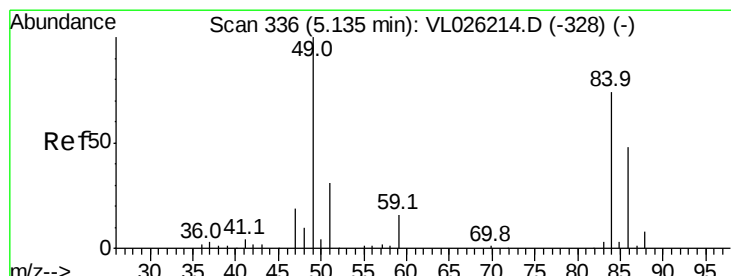
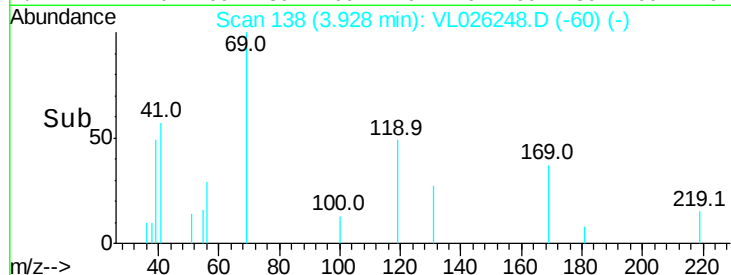
1000

500

0

Time-->

3.90 3.95



#20

Methylene Chloride

Concen: 0.09 ppbv

RT: 5.13 min Scan# 335

Delta R.T. -0.01 min

Lab File: VL026248.D

Acq: 21 Oct 2015 21:44

Tgt Ion: 84 Resp: 2443

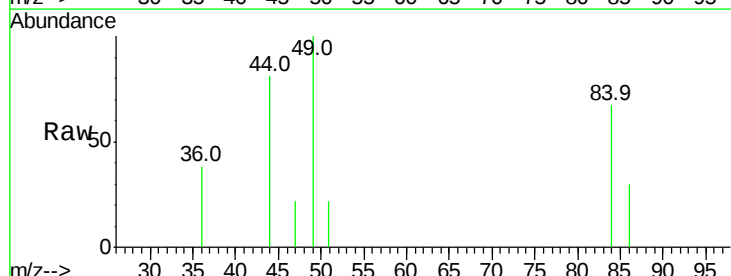
Ion Ratio Lower Upper

84 100

49 149.9 108.7 163.1

51 33.0 33.7 50.5#

86 45.4 52.2 78.2#



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

3000

2500

2000

1500

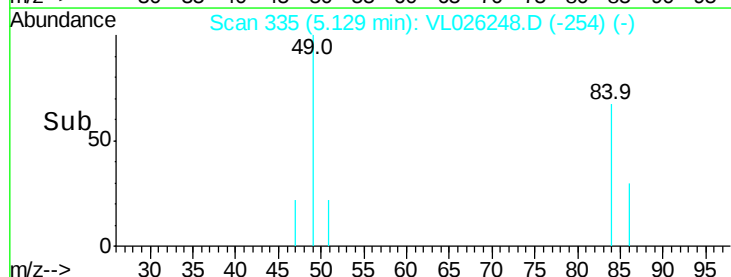
1000

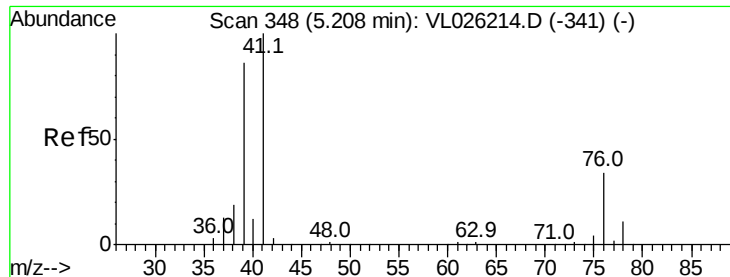
500

0

Time-->

5.10 5.15





#21

Allyl Chloride

Concen: 0.10 ppbv

RT: 4.87 min Scan# 293

Delta R.T. -0.34 min

Lab File: VL026248.D

Acq: 21 Oct 2015 21:44

Instrument :

MSVOA_L

ClientSampleId :

INFDL2

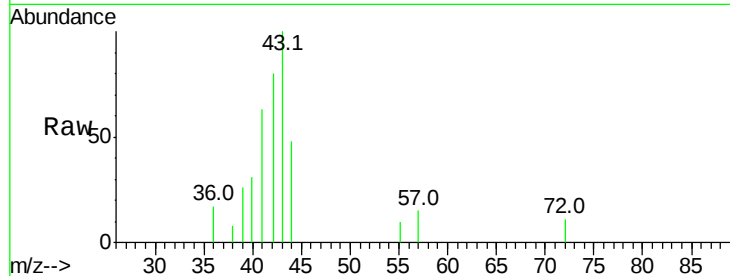
Tgt Ion: 41 Resp: 4425

Ion Ratio Lower Upper

41 100

76 0.0 26.6 39.8#

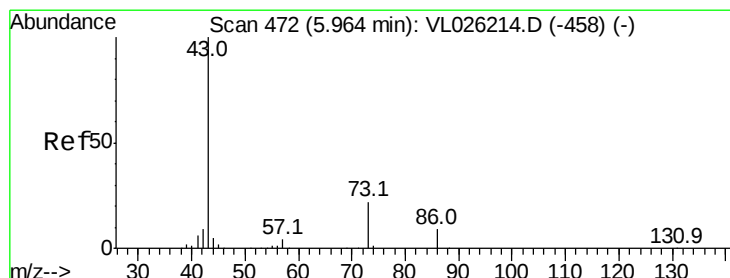
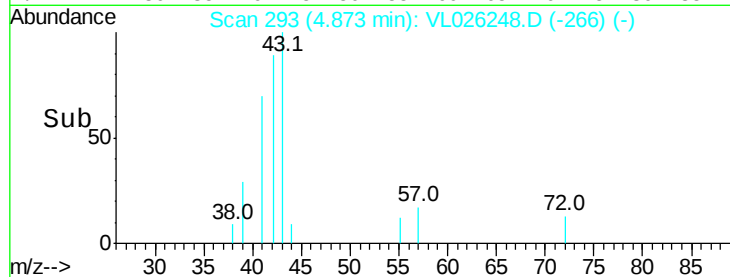
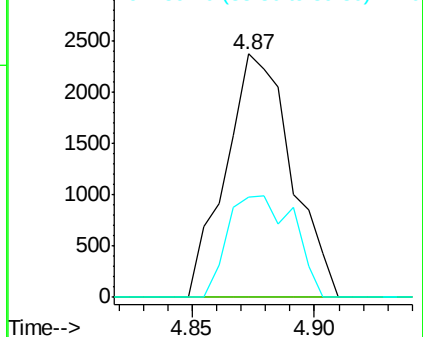
39 42.0 67.4 101.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 0.02 ppbv

RT: 5.93 min Scan# 466

Delta R.T. -0.04 min

Lab File: VL026248.D

Acq: 21 Oct 2015 21:44

Tgt Ion: 43 Resp: 2418

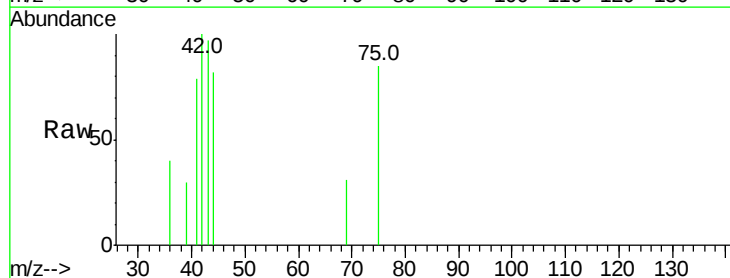
Ion Ratio Lower Upper

43 100

86 0.0 7.0 10.6#

42 102.7 7.5 11.3#

44 16.1 3.6 5.4#

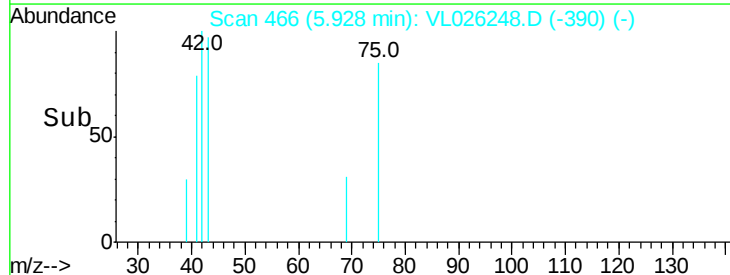
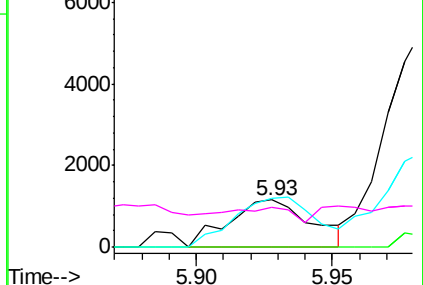


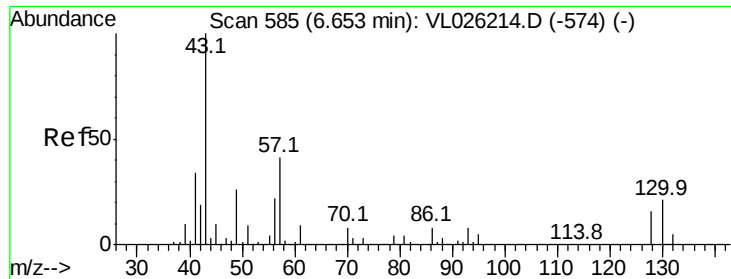
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

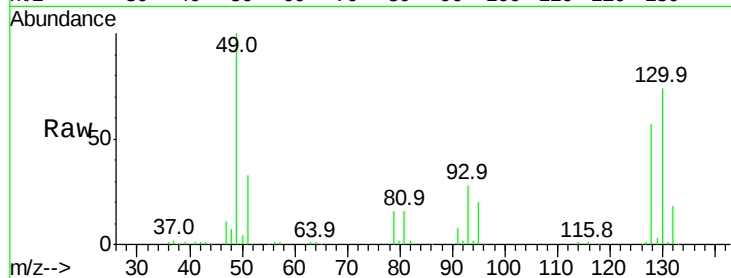




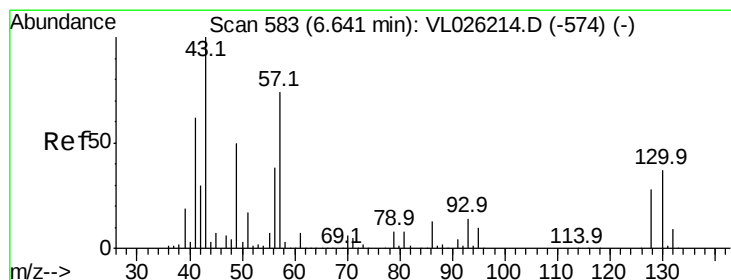
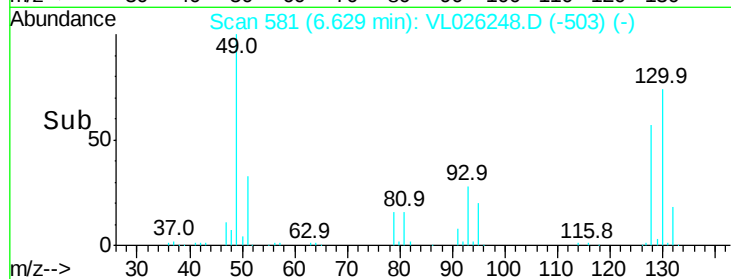
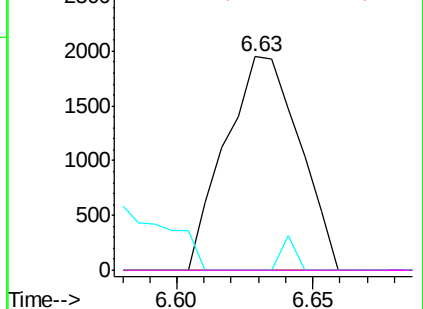
#25
Ethyl Acetate
Concen: 0.03 ppbv
RT: 6.63 min Scan# 581
Delta R.T. -0.02 min
Lab File: VL026248.D
Acq: 21 Oct 2015 21:44

Instrument :
MSVOA_L
ClientSampleId :
INFDL2

Tgt Ion: 43 Resp: 3681
Ion Ratio Lower Upper
43 100
45 0.0 7.7 11.5#
61 2928.5 7.5 11.3#
70 15.6 6.9 10.3#



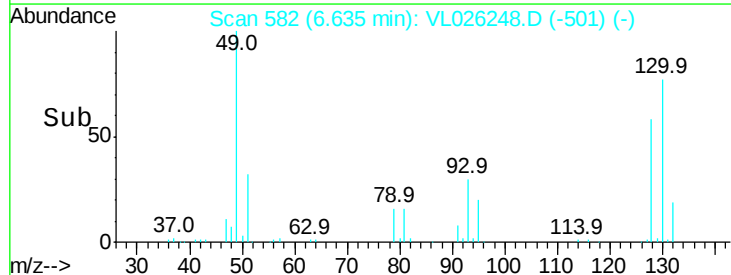
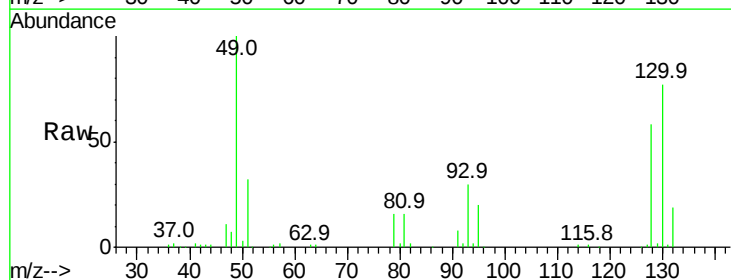
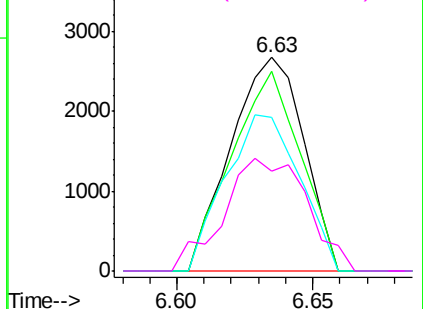
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

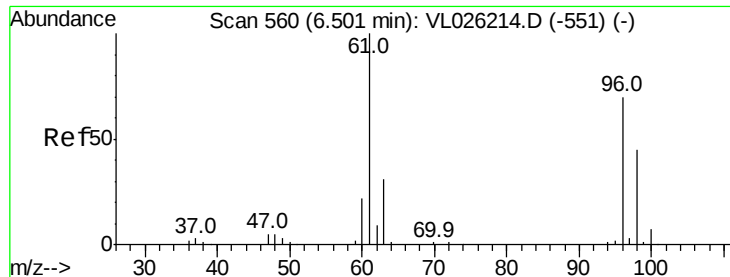


#26
Hexane
Concen: 0.08 ppbv
RT: 6.63 min Scan# 582
Delta R.T. -0.01 min
Lab File: VL026248.D
Acq: 21 Oct 2015 21:44

Tgt Ion: 57 Resp: 4963
Ion Ratio Lower Upper
57 100
41 88.6 68.1 102.1
43 74.2 163.4 245.2#
56 60.1 42.2 63.4

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

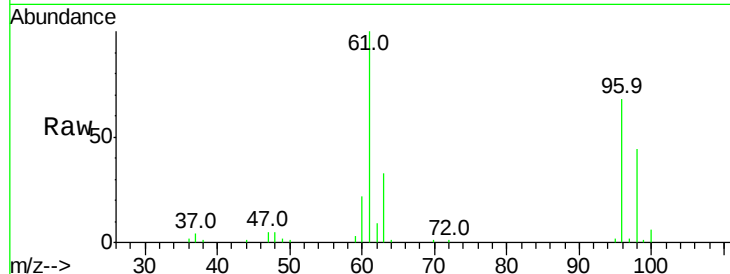




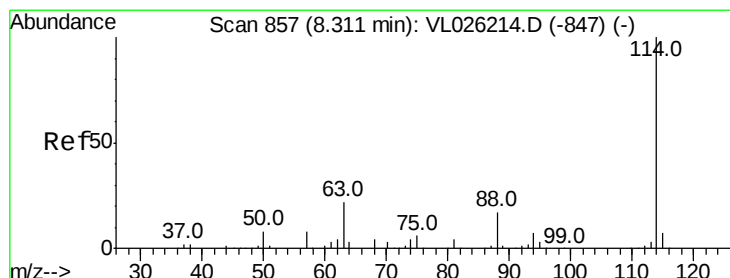
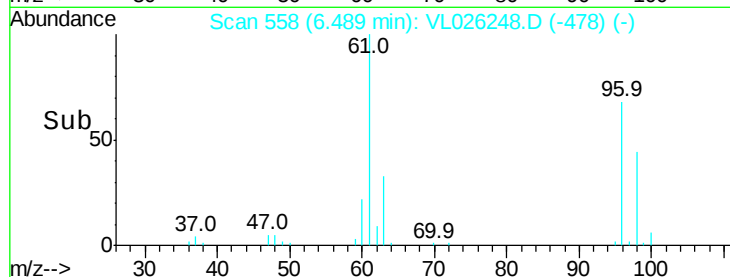
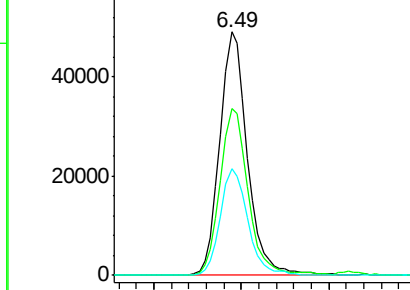
#31
 cis-1,2-Dichloroethene
 Concen: 1.95 ppbv
 RT: 6.49 min Scan# 558
 Delta R.T. -0.01 min
 Lab File: VL026248.D
 Acq: 21 Oct 2015 21:44

Instrument :
 MSVOA_L
 ClientSampleId :
 INFDL2

Tgt Ion: 61 Resp: 107800
 Ion Ratio Lower Upper
 61 100
 96 68.4 56.0 84.0
 98 43.6 36.1 54.1

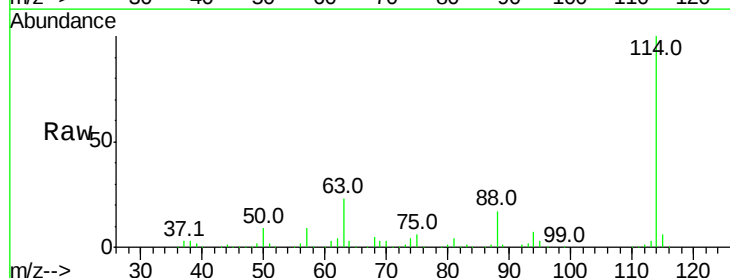


Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0

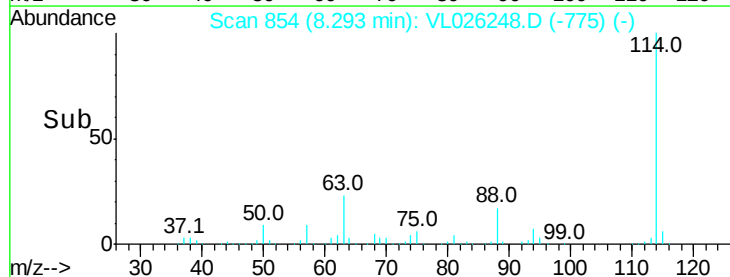
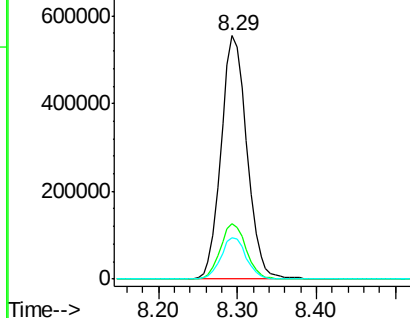


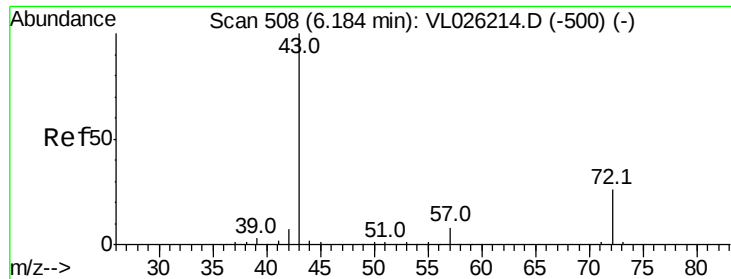
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.29 min Scan# 854
 Delta R.T. -0.02 min
 Lab File: VL026248.D
 Acq: 21 Oct 2015 21:44

Tgt Ion: 114 Resp: 1268048
 Ion Ratio Lower Upper
 114 100
 63 22.8 18.2 27.4
 88 16.9 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: VL026248.D

Acq: 21 Oct 2015 21:44

Instrument :

MSVOA_L

ClientSampled :

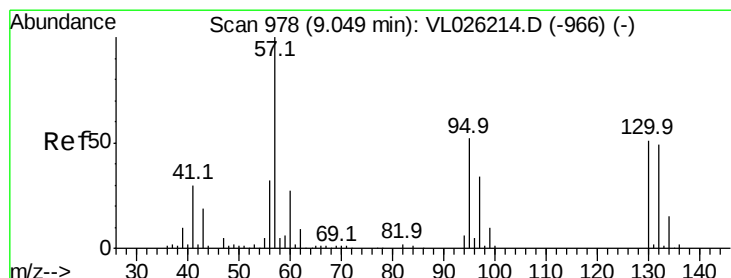
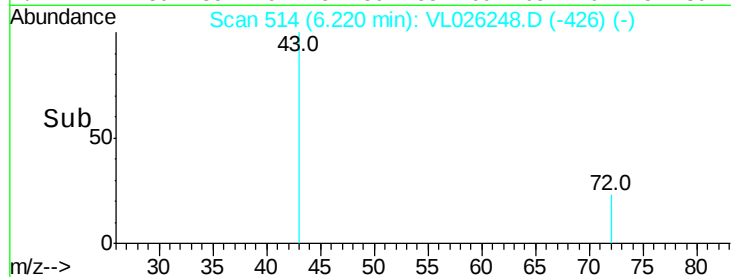
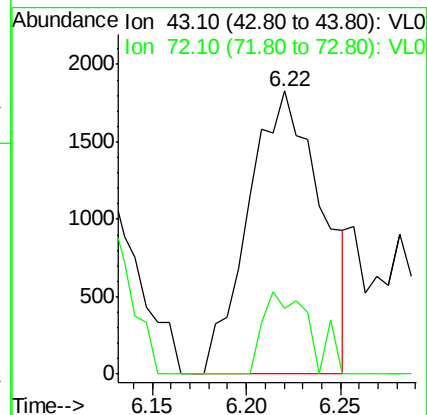
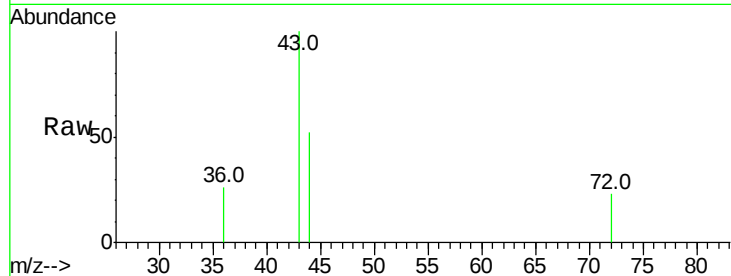
INFDL2

Tgt Ion: 43 Resp: 4942

Ion Ratio Lower Upper

43 100

72 18.6 20.1 30.1#



#38

Trichloroethene

Concen: 4.17 ppbv

RT: 9.03 min Scan# 975

Delta R.T. -0.02 min

Lab File: VL026248.D

Acq: 21 Oct 2015 21:44

Tgt Ion: 130 Resp: 261562

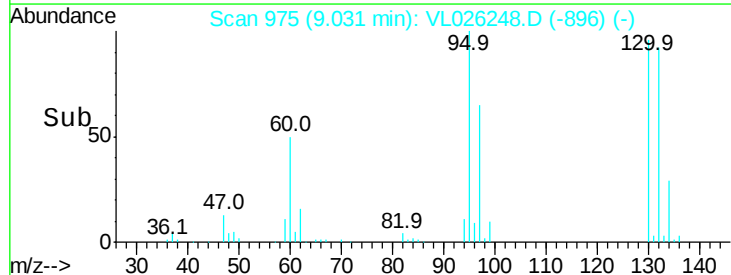
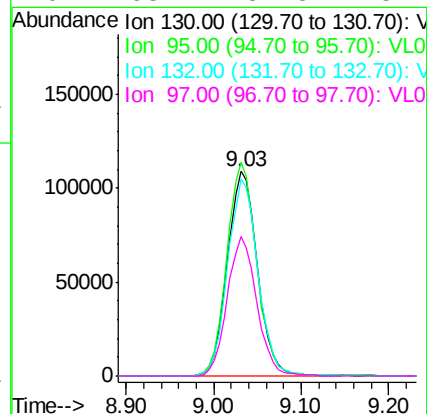
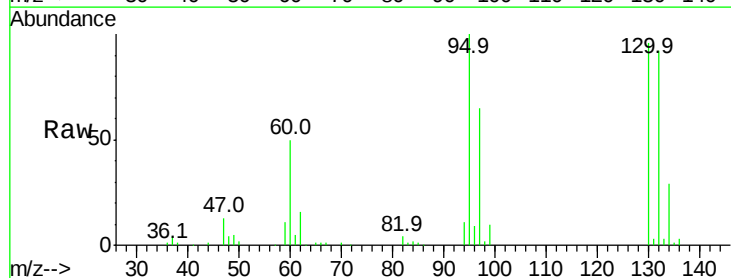
Ion Ratio Lower Upper

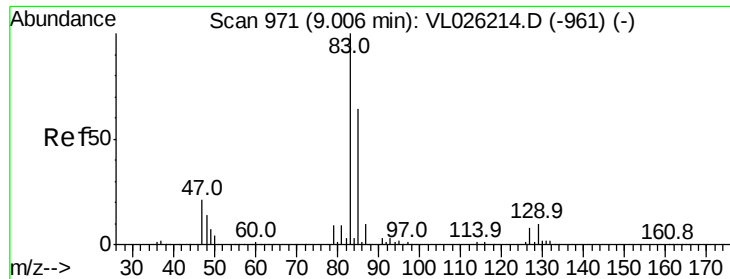
130 100

95 104.4 81.0 121.4

132 96.1 76.5 114.7

97 68.1 52.5 78.7





#42

Bromodichloromethane

Concen: 0.03 ppbv

RT: 9.03 min Scan# 975

Delta R.T. 0.02 min

Lab File: VL026248.D

Acq: 21 Oct 2015 21:44

Instrument :

MSVOA_L

ClientSampled :

INFDL2

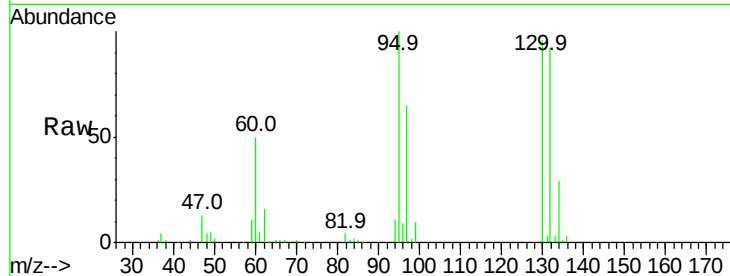
Tgt Ion: 83 Resp: 3288

Ion Ratio Lower Upper

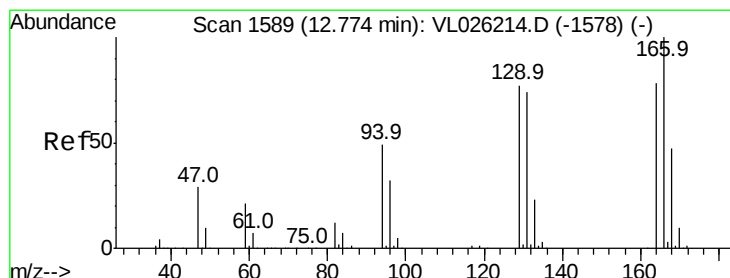
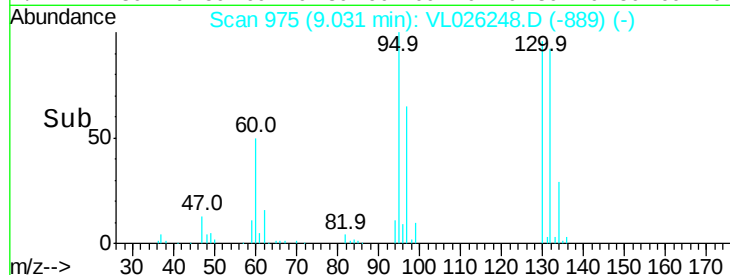
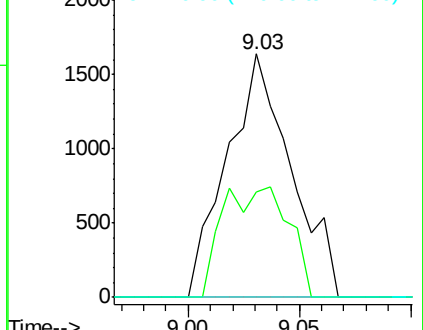
83 100

85 43.4 50.9 76.3#

127 0.0 6.2 9.4#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#52

Tetrachloroethene

Concen: 52.69 ppbv

RT: 12.77 min Scan# 1589

Delta R.T. 0.00 min

Lab File: VL026248.D

Acq: 21 Oct 2015 21:44

Tgt Ion:164 Resp: 3902136

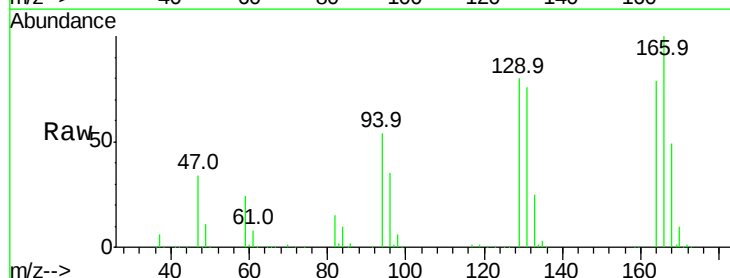
Ion Ratio Lower Upper

164 100

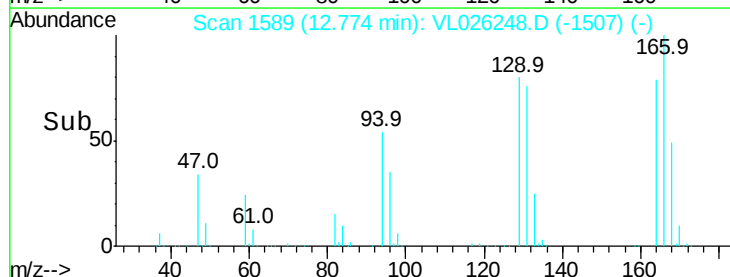
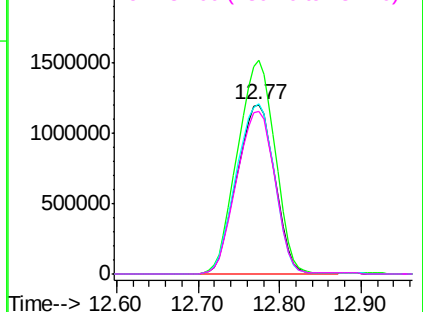
166 126.0 102.3 153.5

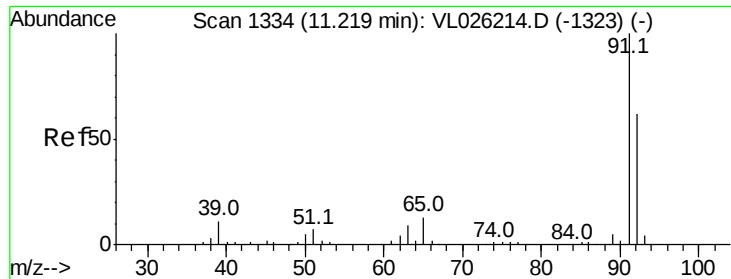
129 100.4 78.2 117.4

131 95.9 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





#53

Toluene

Concen: 0.04 ppbv

RT: 11.21 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VL026248.D

Acq: 21 Oct 2015 21:44

Instrument :

MSVOA_L

ClientSampleId :

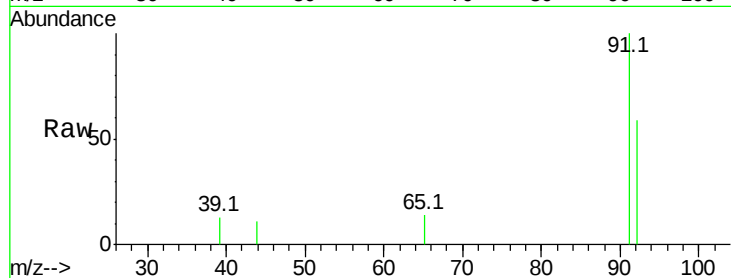
INFDL2

Tgt Ion: 91 Resp: 6453

Ion Ratio Lower Upper

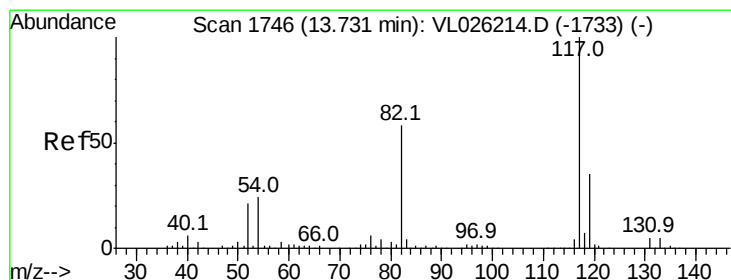
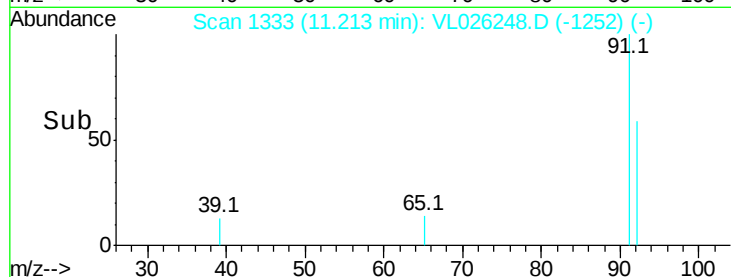
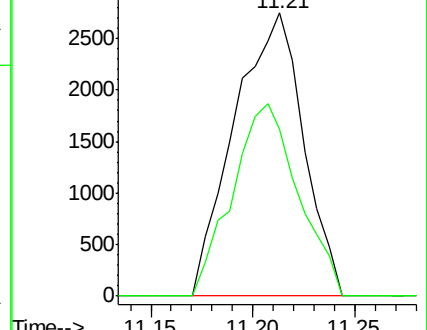
91 100

92 64.9 49.2 73.8



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: 13.71 min Scan# 1743

Delta R.T. -0.02 min

Lab File: VL026248.D

Acq: 21 Oct 2015 21:44

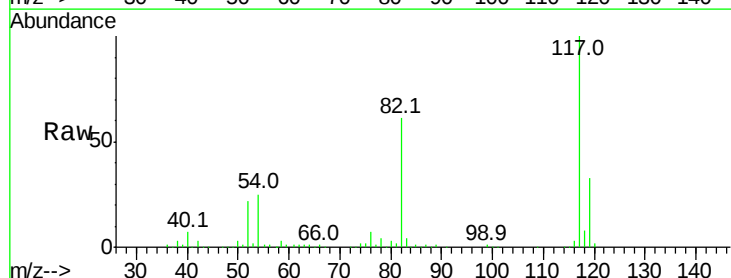
Tgt Ion: 117 Resp: 1543687

Ion Ratio Lower Upper

117 100

82 61.1 45.8 68.8

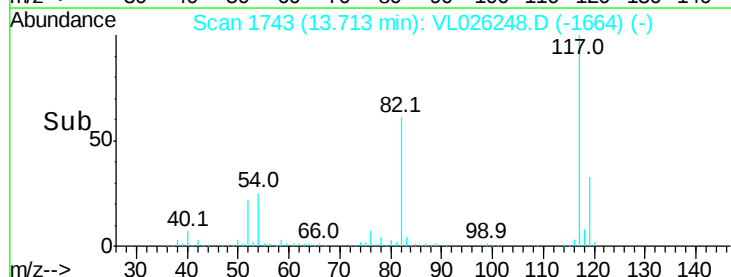
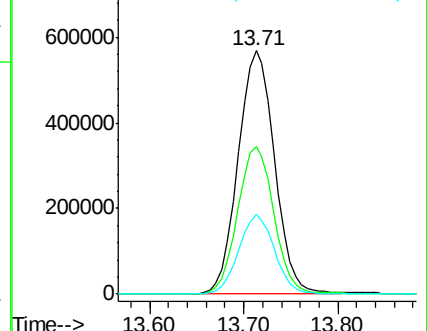
119 32.7 45.0 67.4#

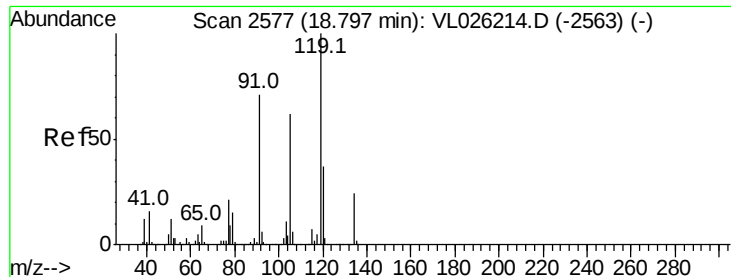


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

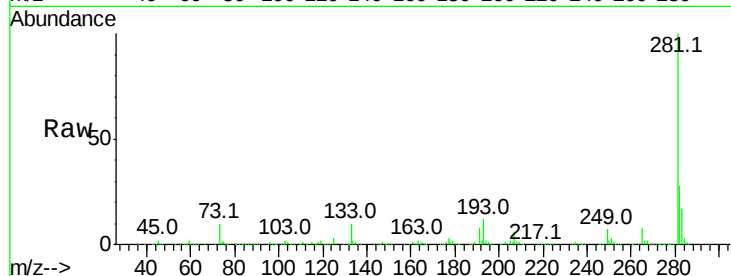




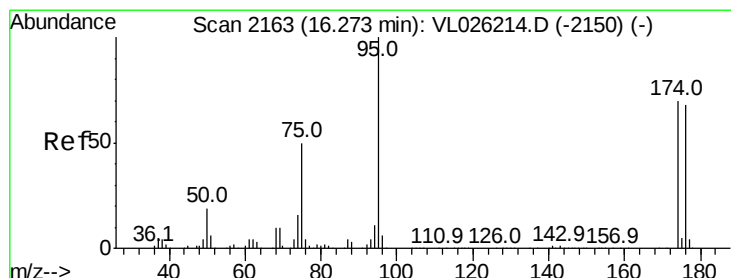
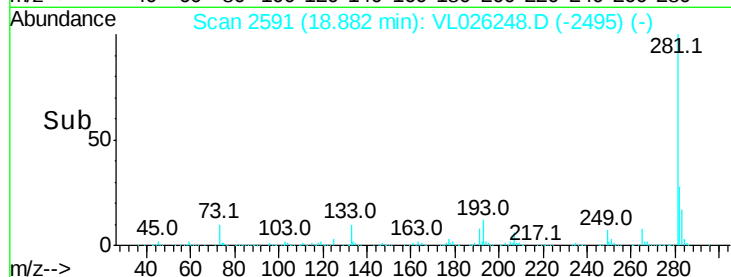
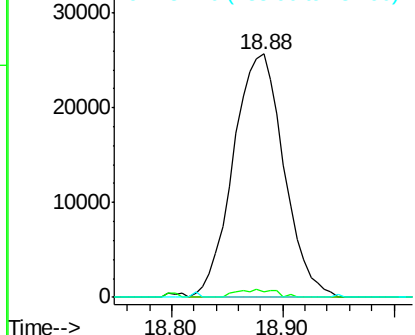
#65
 tert-Butylbenzene
 Concen: 0.31 ppbv
 RT: 18.88 min Scan# 2591
 Delta R.T. 0.09 min
 Lab File: VL026248.D
 Acq: 21 Oct 2015 21:44

Instrument :
 MSVOA_L
 ClientSampleId :
 INFDL2

Tgt Ion: 119 Resp: 81104
 Ion Ratio Lower Upper
 119 100
 91 2.5 57.5 86.3#
 134 0.1 18.1 27.1#

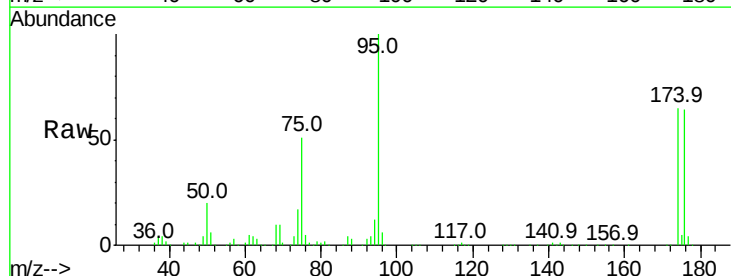


Abundance Ion 119.20 (118.90 to 119.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 134.20 (133.90 to 134.90): V



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.40 ppbv
 RT: 16.25 min Scan# 2159
 Delta R.T. -0.02 min
 Lab File: VL026248.D
 Acq: 21 Oct 2015 21:44

Tgt Ion: 95 Resp: 1238675
 Ion Ratio Lower Upper
 95 100
 174 66.5 55.8 83.8
 175 5.0 4.3 6.5



Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

