

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL070715\
 Data File : VL025609.D
 Acq On : 7 Jul 2015 13:52
 Operator : SY/MD
 Sample : VSTDIC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Quant Time: Jul 07 14:57:13 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 07 13:08:42 2015
 QLast Update : Tue Jul 07 13:08:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	550814	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	1448251	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.74	117	1876970	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	1621576	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

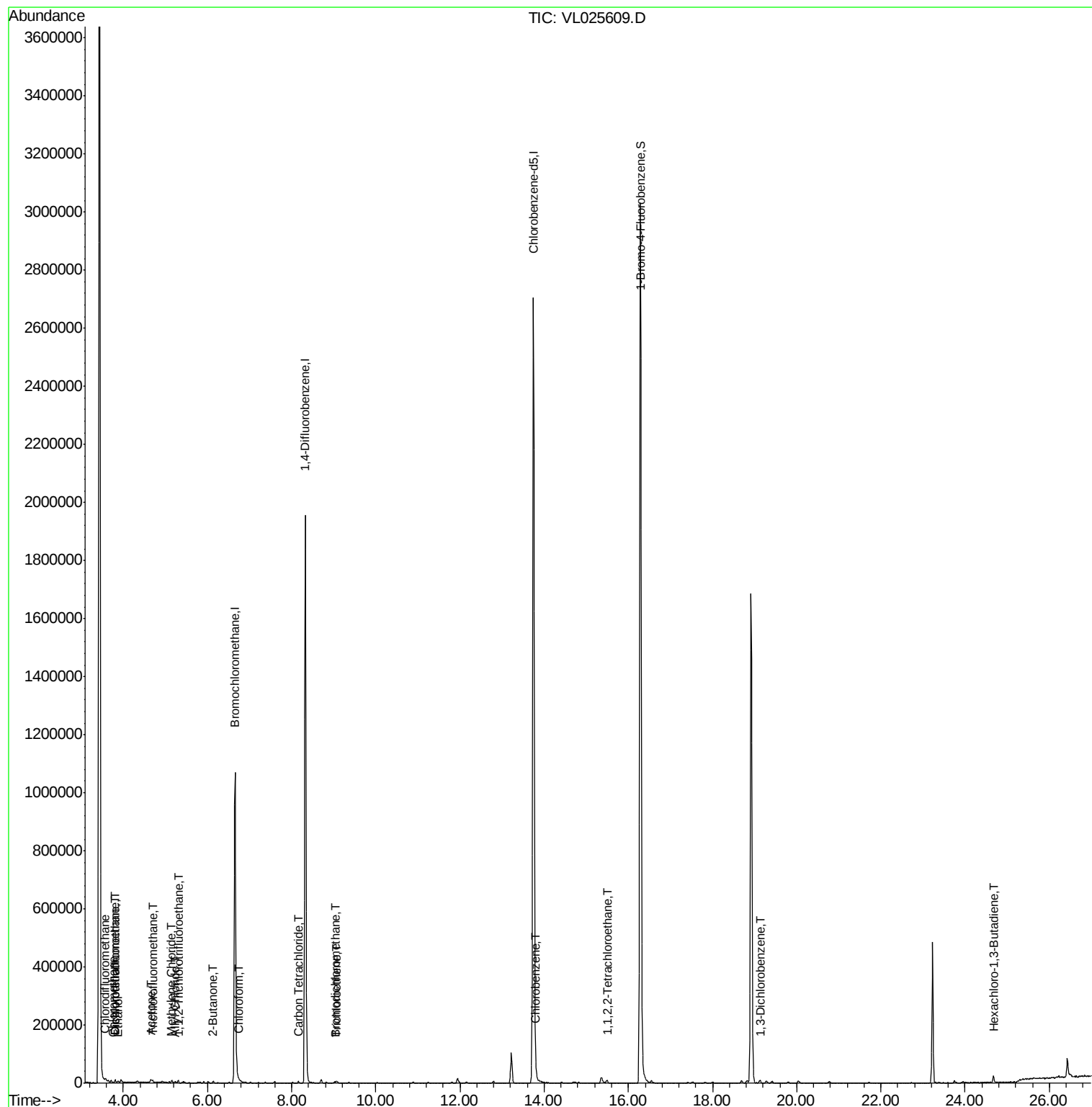
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.80	85	4684	0.04	ppbv	95
3) Chlorodifluoromethane	3.57	51	2867	0.04	ppbv #	86
4) Chloromethane	3.76	50	1159	0.03	ppbv #	42
8) Dichlorotetrafluoroethane	3.80	85	4684	0.05	ppbv	86
11) Trichlorofluoromethane	4.69	101	4661	0.03	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	5.31	101	3695	0.05	ppbv	97
13) Ethanol	3.88	45	250	0.05	ppbv #	35
15) Acetone	4.65	43	13216	0.16	ppbv #	79
20) Methylene Chloride	5.15	84	2694	0.08	ppbv	89
21) Allyl Chloride	5.23	41	2109	0.04	ppbv #	83
29) Chloroform	6.75	83	4663	0.04	ppbv	92
34) 2-Butanone	6.13	43	2673	0.03	ppbv #	48
35) Carbon Tetrachloride	8.16	117	4791	0.04	ppbv	87
38) Trichloroethene	9.06	130	1903	0.03	ppbv #	80
42) Bromodichloromethane	9.03	83	3757	0.03	ppbv #	88
57) Chlorobenzene	13.81	112	6871	0.04	ppbv #	97
63) 1,1,2,2-Tetrachloroethane	15.49	83	6364	0.03	ppbv #	87
75) 1,3-Dichlorobenzene	19.13	146	5863	0.03	ppbv	96
78) Hexachloro-1,3-Butadiene	24.67	225	5049	0.05	ppbv	97

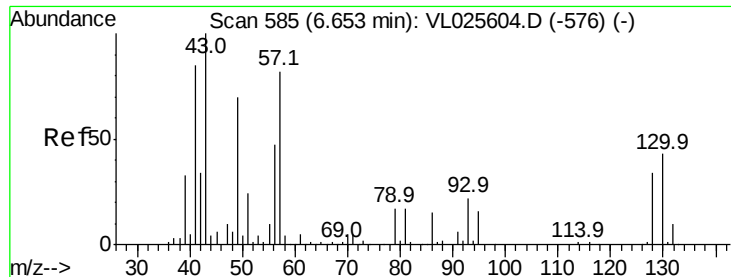
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 07 13:08:42 2015
QLast Update : Tue Jul 07 13:08:42 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. -0.00 min

Lab File: VL025609.D

Acq: 7 Jul 2015 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

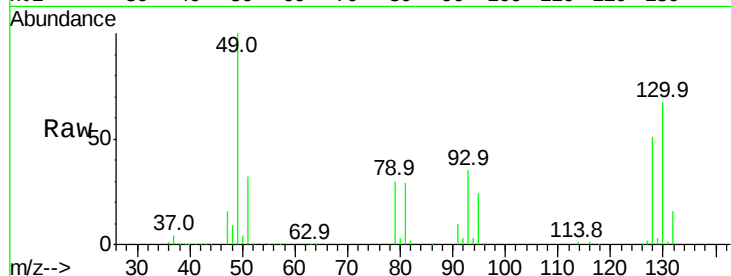
Tgt Ion: 49 Resp: 550814

Ion Ratio Lower Upper

49 100

128 51.3 25.4 76.0

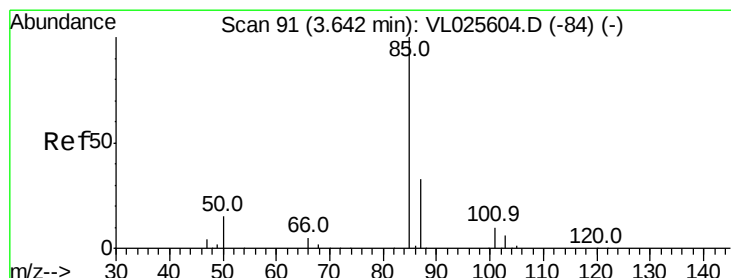
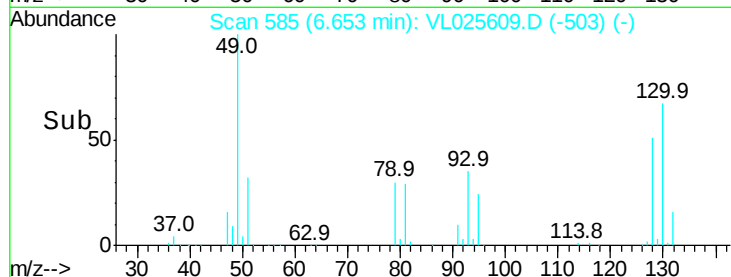
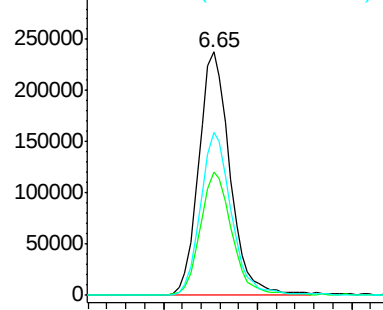
130 67.3 31.9 95.9



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: 0.04 ppbv

RT: 3.80 min Scan# 117

Delta R.T. 0.16 min

Lab File: VL025609.D

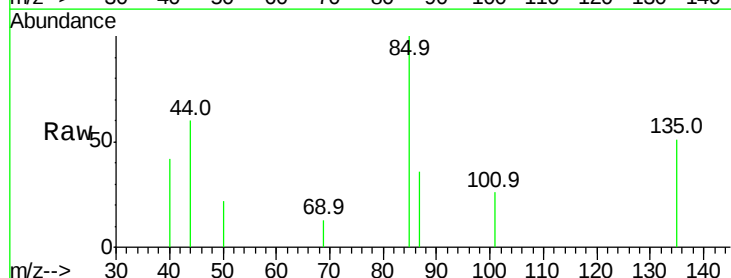
Acq: 7 Jul 2015 13:52

Tgt Ion: 85 Resp: 4684

Ion Ratio Lower Upper

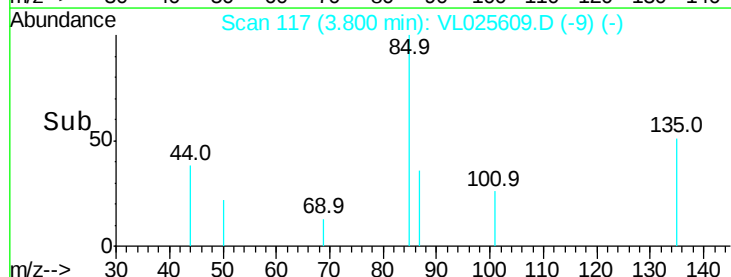
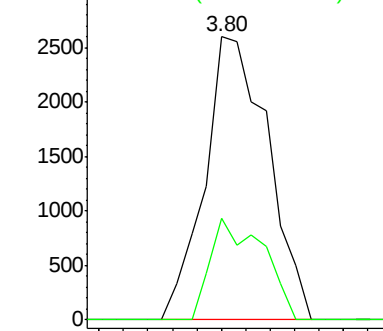
85 100

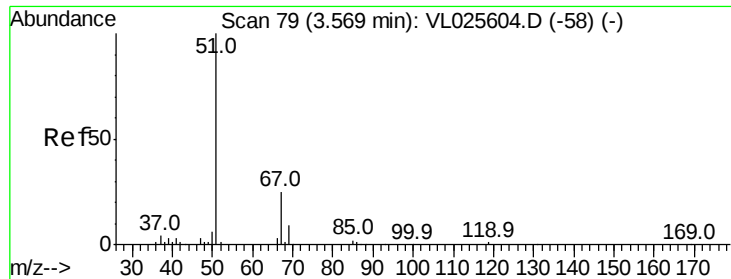
87 36.0 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

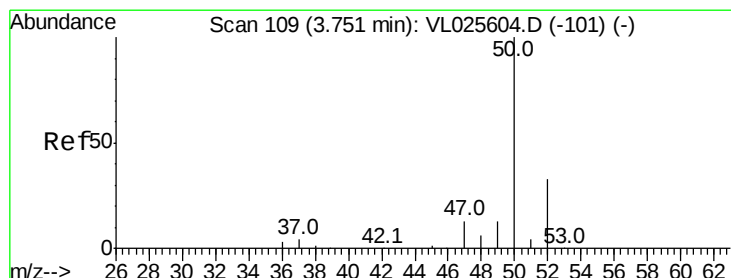
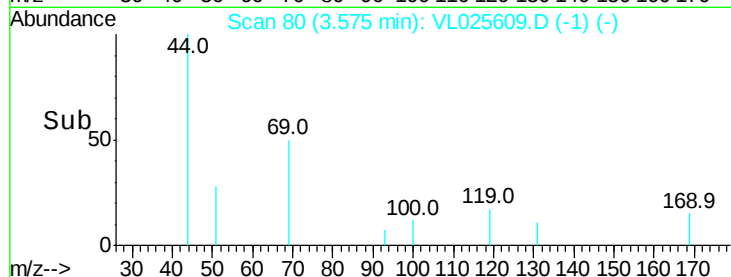
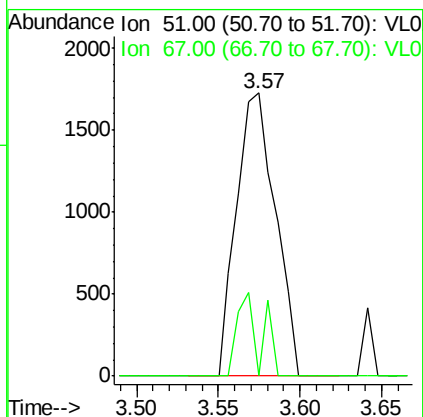
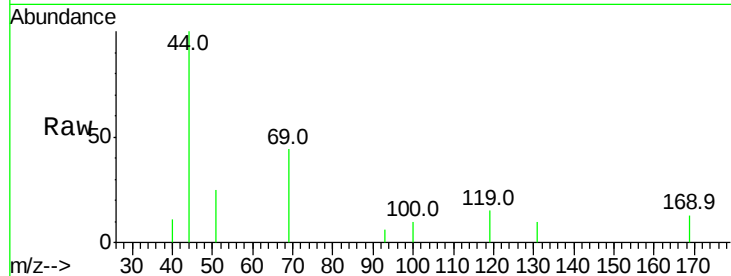




#3
 Chlorodifluoromethane
 Concen: 0.04 ppbv
 RT: 3.57 min Scan# 80
 Delta R.T. 0.01 min
 Lab File: VL025609.D
 Acq: 7 Jul 2015 13:52

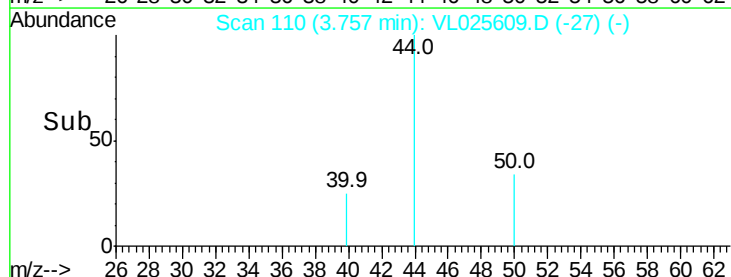
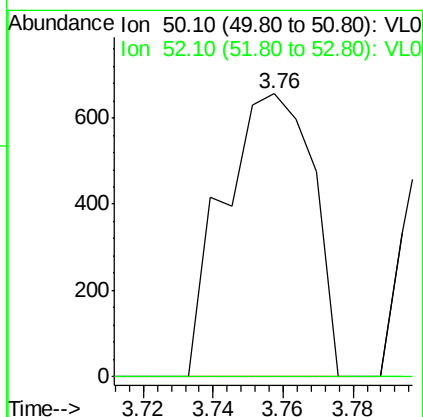
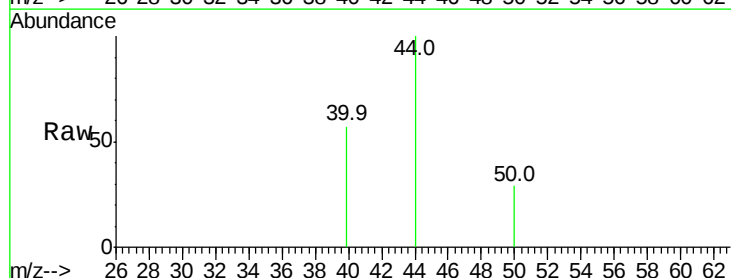
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

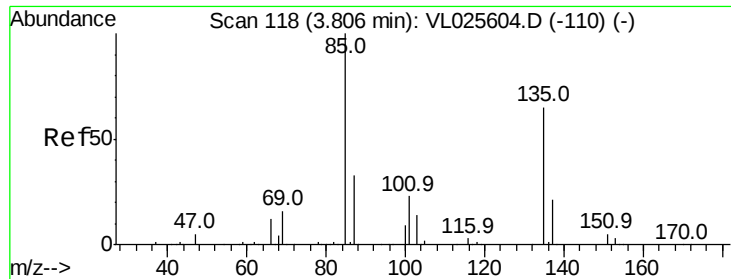
Tgt Ion: 51 Resp: 2867
 Ion Ratio Lower Upper
 51 100
 67 17.4 19.5 29.3#



#4
 Chloromethane
 Concen: 0.03 ppbv
 RT: 3.76 min Scan# 110
 Delta R.T. 0.01 min
 Lab File: VL025609.D
 Acq: 7 Jul 2015 13:52

Tgt Ion: 50 Resp: 1159
 Ion Ratio Lower Upper
 50 100
 52 0.0 26.2 39.2#





#8

Dichlorotetrafluoroethane

Concen: 0.05 ppbv

RT: 3.80 min Scan# 117

Delta R.T. -0.01 min

Lab File: VL025609.D

Acq: 7 Jul 2015 13:52

Instrument :

MSVOA_L

ClientSampleId :

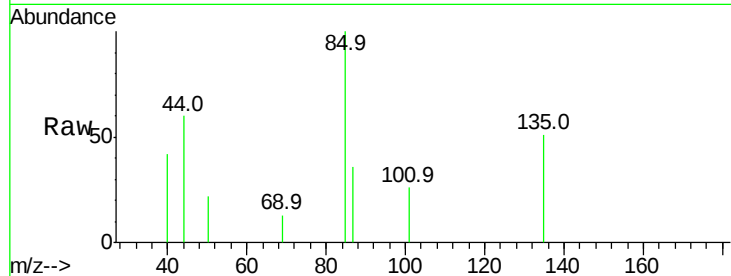
VSTDIC0.03

Tgt Ion: 85 Resp: 4684

Ion Ratio Lower Upper

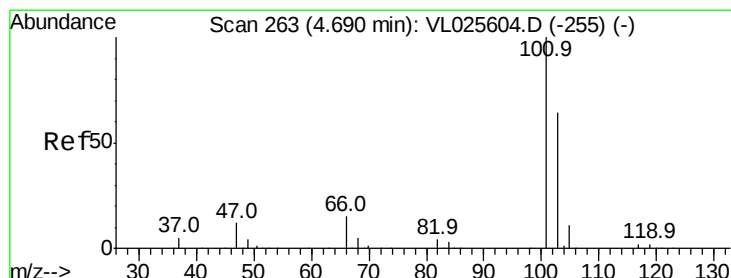
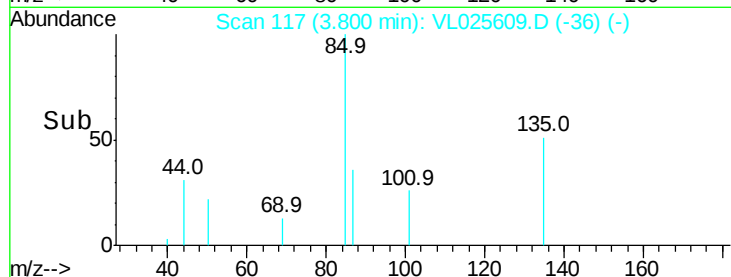
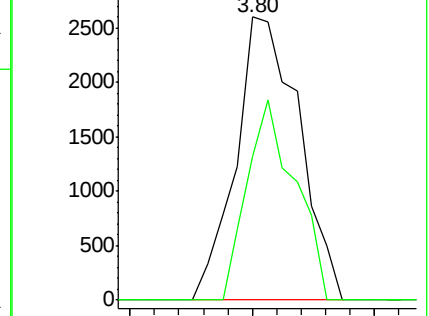
85 100

135 53.9 52.2 78.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#11

Trichlorofluoromethane

Concen: 0.03 ppbv

RT: 4.69 min Scan# 263

Delta R.T. -0.00 min

Lab File: VL025609.D

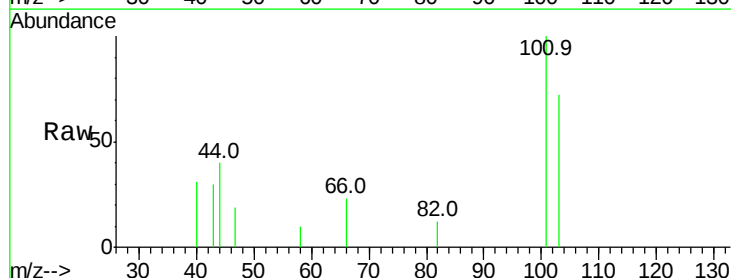
Acq: 7 Jul 2015 13:52

Tgt Ion: 101 Resp: 4661

Ion Ratio Lower Upper

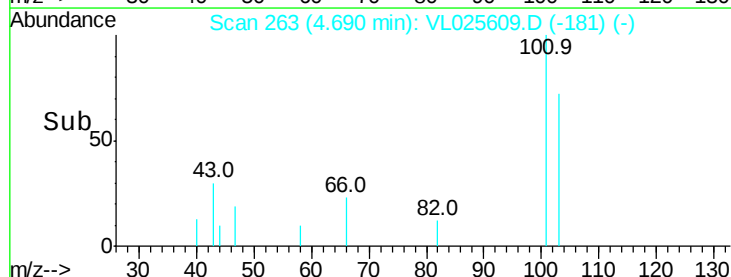
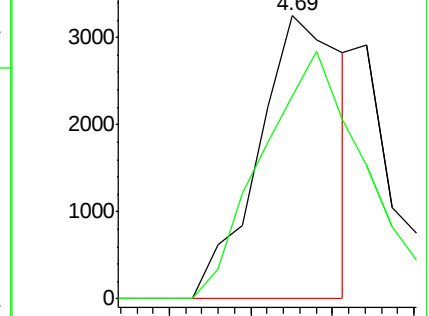
101 100

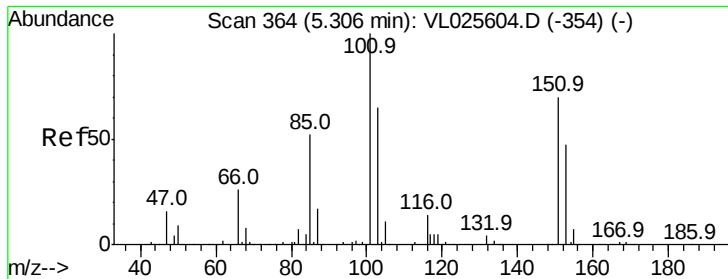
103 71.6 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

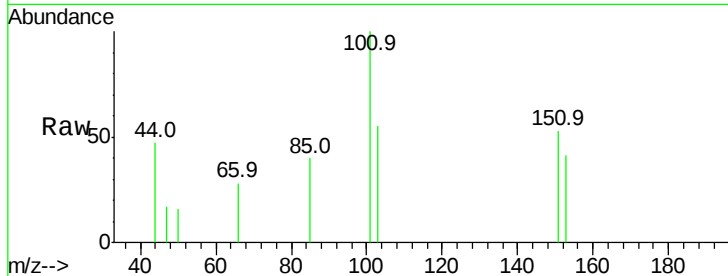




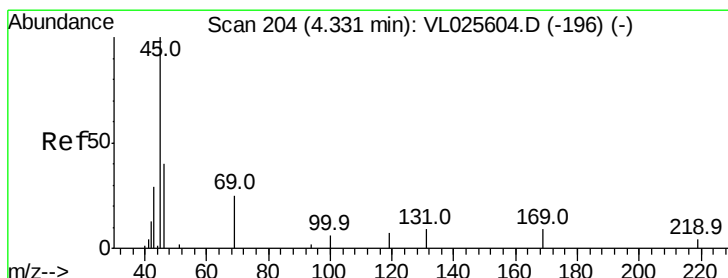
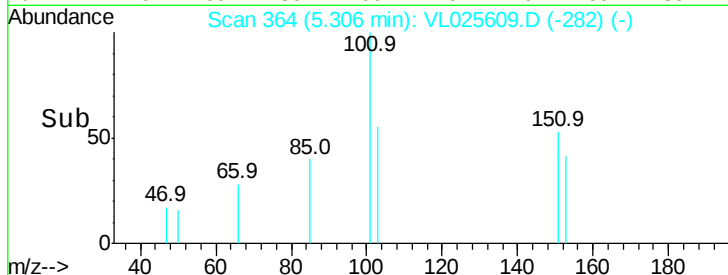
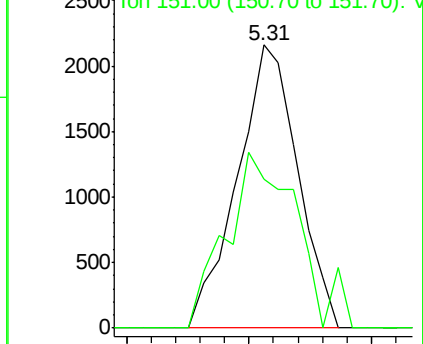
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.05 ppbv
RT: 5.31 min Scan# 364
Delta R.T. -0.00 min
Lab File: VL025609.D
Acq: 7 Jul 2015 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion:101 Resp: 3695
Ion Ratio Lower Upper
101 100
151 73.2 56.3 84.5

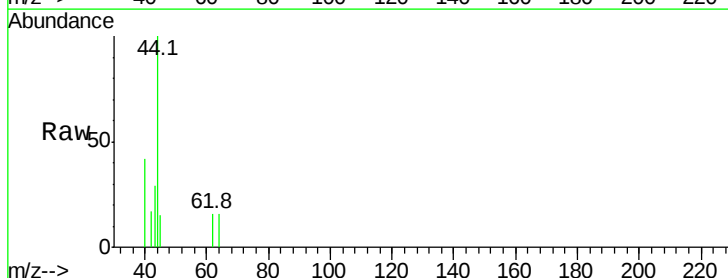


Abundance Ion 101.00 (100.70 to 101.70): V
Ion 151.00 (150.70 to 151.70): V

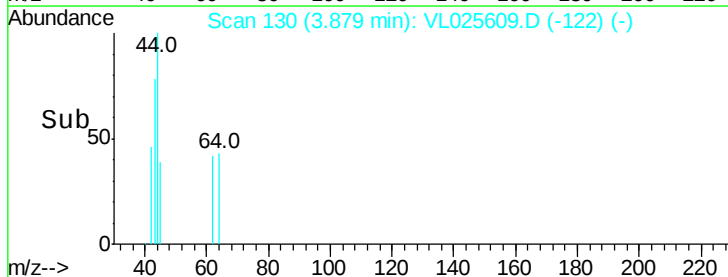
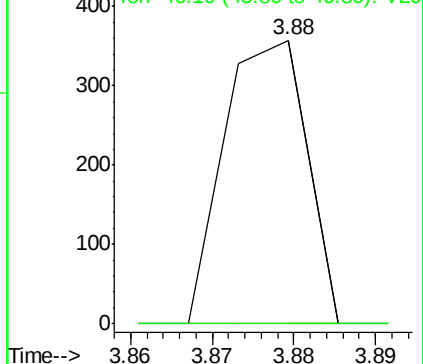


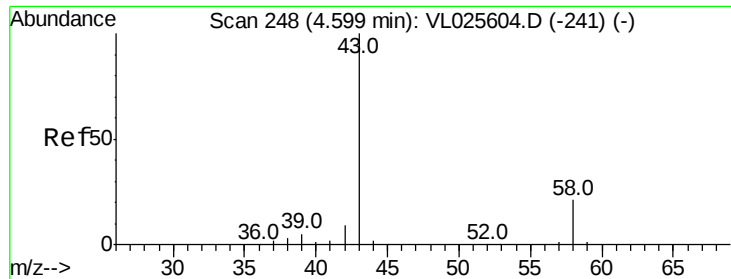
#13
Ethanol
Concen: 0.05 ppbv
RT: 3.88 min Scan# 130
Delta R.T. -0.45 min
Lab File: VL025609.D
Acq: 7 Jul 2015 13:52

Tgt Ion: 45 Resp: 250
Ion Ratio Lower Upper
45 100
46 0.0 16.0 64.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0
Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.16 ppbv

RT: 4.65 min Scan# 257

Delta R.T. 0.05 min

Lab File: VL025609.D

Acq: 7 Jul 2015 13:52

Instrument :

MSVOA_L

ClientSampleId :

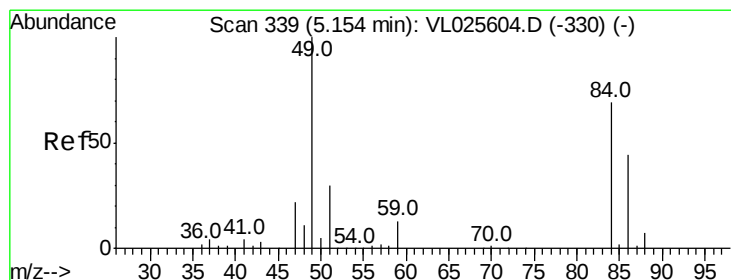
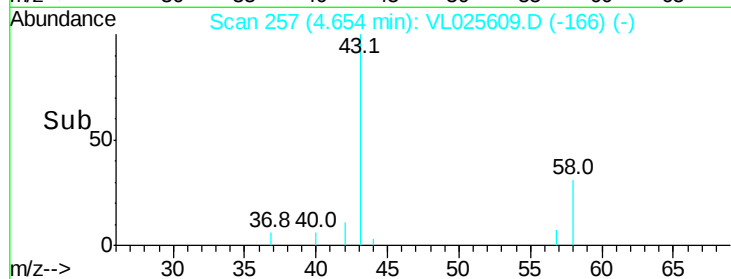
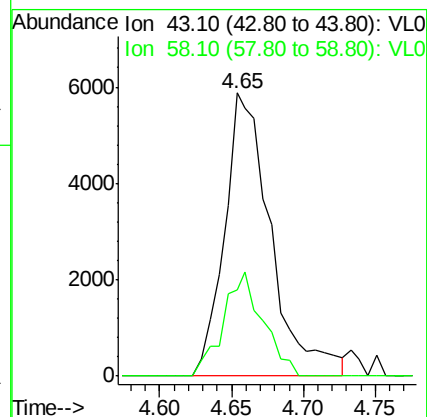
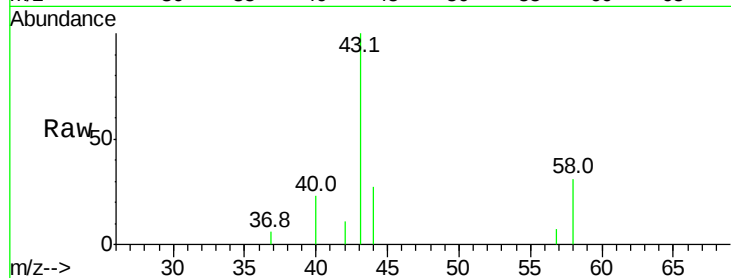
VSTDIC0.03

Tgt Ion: 43 Resp: 13216

Ion Ratio Lower Upper

43 100

58 31.5 17.2 25.8#



#20

Methylene Chloride

Concen: 0.08 ppbv

RT: 5.15 min Scan# 338

Delta R.T. -0.01 min

Lab File: VL025609.D

Acq: 7 Jul 2015 13:52

Tgt Ion: 84 Resp: 2694

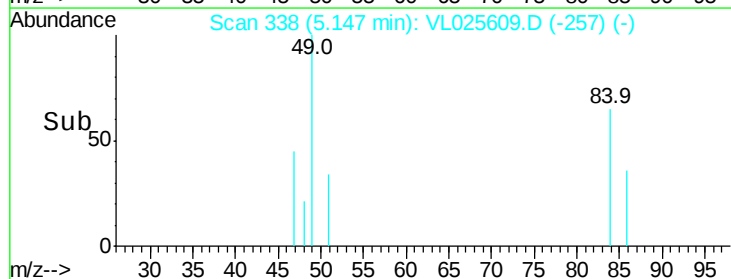
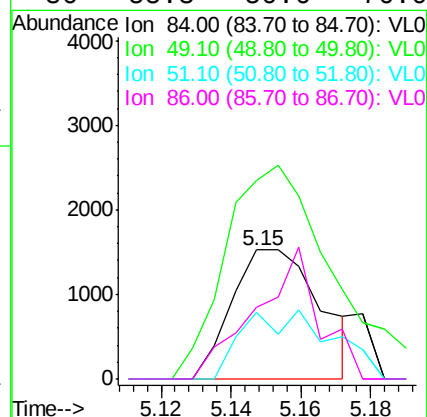
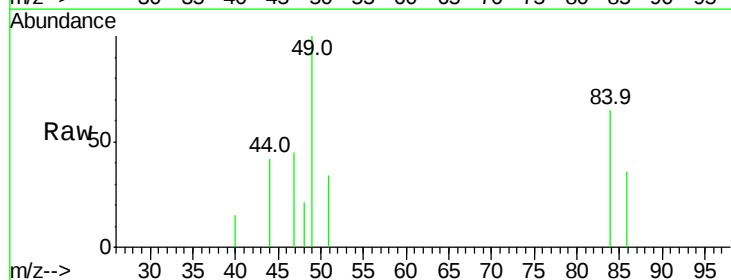
Ion Ratio Lower Upper

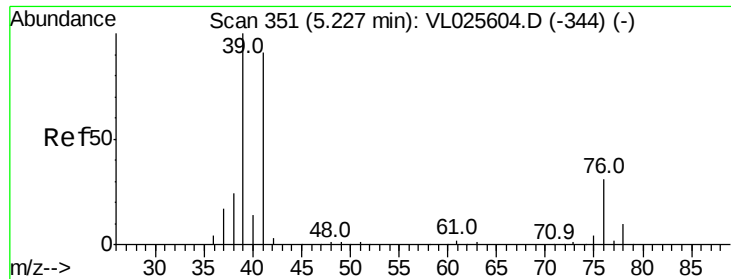
84 100

49 129.5 115.2 172.8

51 51.9 35.0 52.6

86 55.3 50.6 76.0





#21

Allyl Chloride

Concen: 0.04 ppbv

RT: 5.23 min Scan# 352

Delta R.T. 0.01 min

Lab File: VL025609.D

Acq: 7 Jul 2015 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

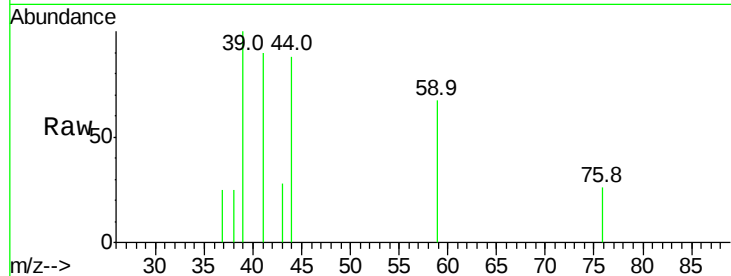
Tgt Ion: 41 Resp: 2109

Ion Ratio Lower Upper

41 100

76 0.0 26.6 40.0#

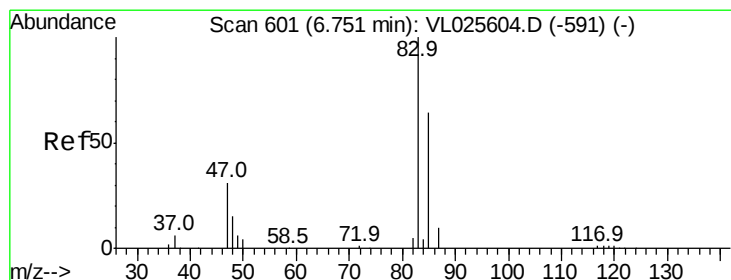
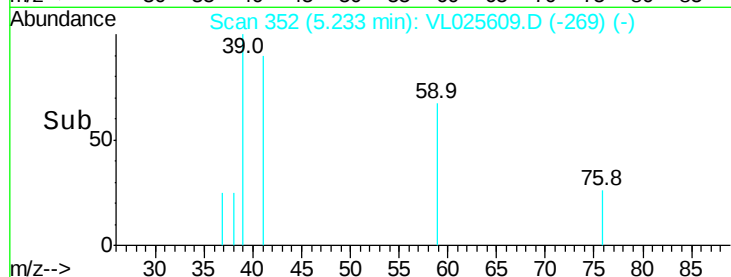
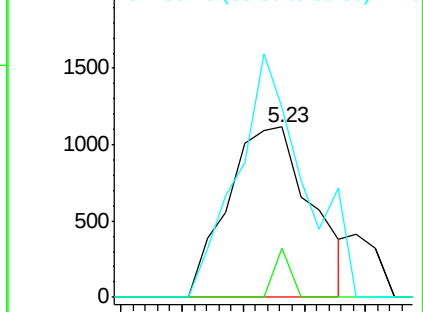
39 115.2 88.2 132.4



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



#29

Chloroform

Concen: 0.04 ppbv

RT: 6.75 min Scan# 601

Delta R.T. -0.00 min

Lab File: VL025609.D

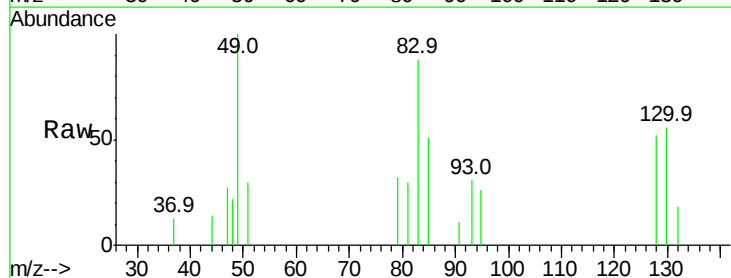
Acq: 7 Jul 2015 13:52

Tgt Ion: 83 Resp: 4663

Ion Ratio Lower Upper

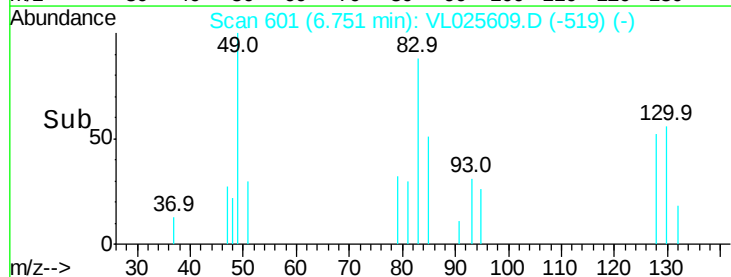
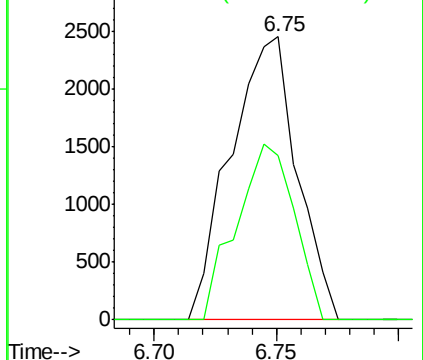
83 100

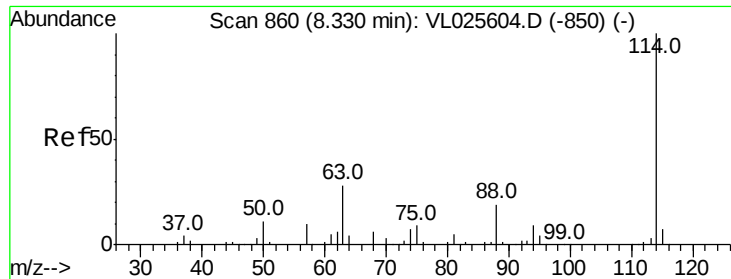
85 58.0 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

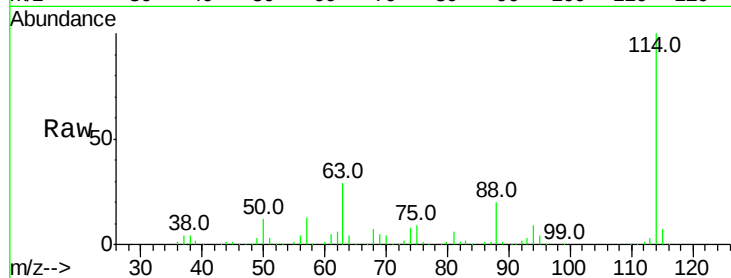




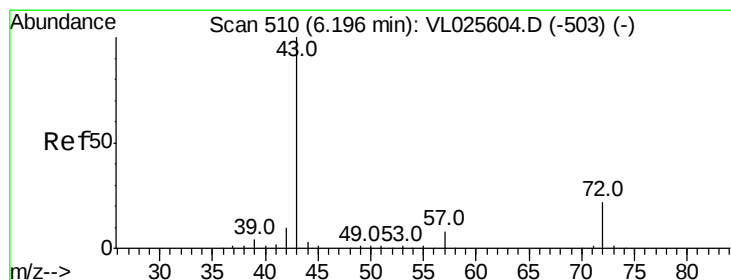
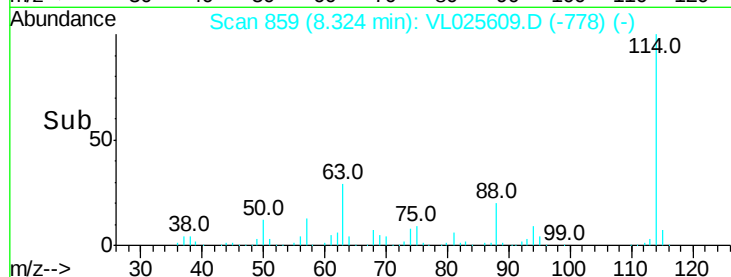
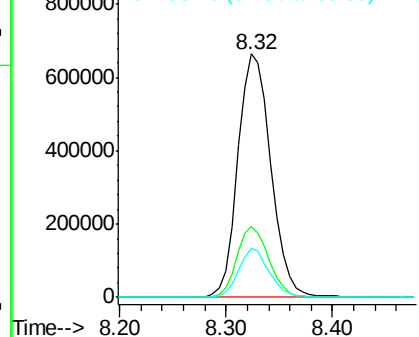
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.32 min Scan# 859
 Delta R.T. -0.01 min
 Lab File: VL025609.D
 Acq: 7 Jul 2015 13:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion:114 Resp: 1448251
 Ion Ratio Lower Upper
 114 100
 63 28.3 22.4 33.6
 88 18.8 15.0 22.4

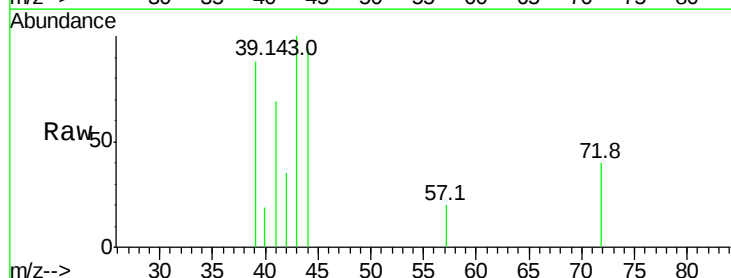


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

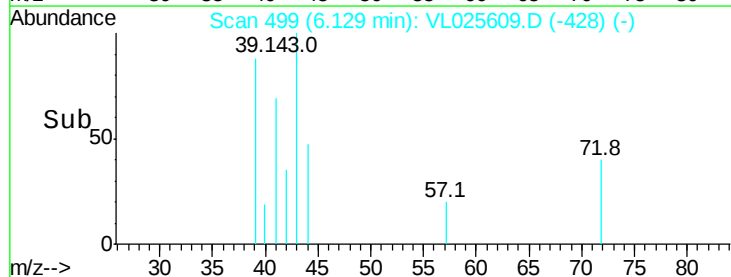
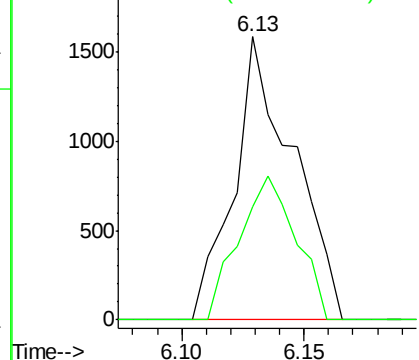


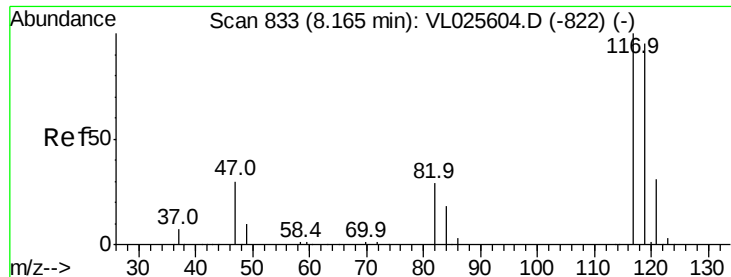
#34
 2-Butanone
 Concen: 0.03 ppbv
 RT: 6.13 min Scan# 499
 Delta R.T. -0.07 min
 Lab File: VL025609.D
 Acq: 7 Jul 2015 13:52

Tgt Ion: 43 Resp: 2673
 Ion Ratio Lower Upper
 43 100
 72 48.9 18.6 28.0#



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





#35

Carbon Tetrachloride

Concen: 0.04 ppbv

RT: 8.16 min Scan# 832

Delta R.T. -0.01 min

Lab File: VL025609.D

Acq: 7 Jul 2015 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

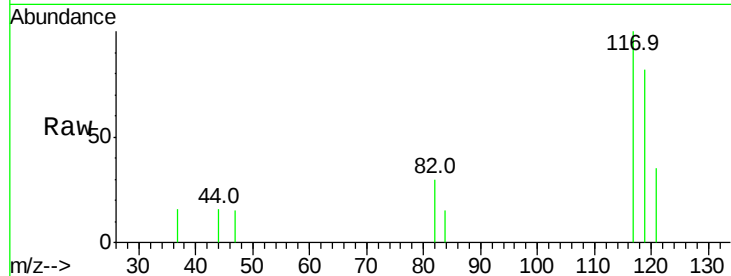
Tgt Ion:117 Resp: 4791

Ion Ratio Lower Upper

117 100

119 81.5 75.9 113.9

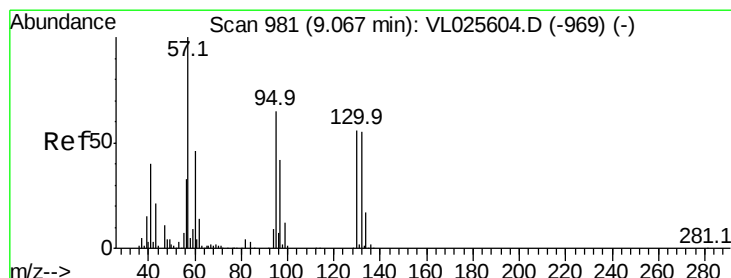
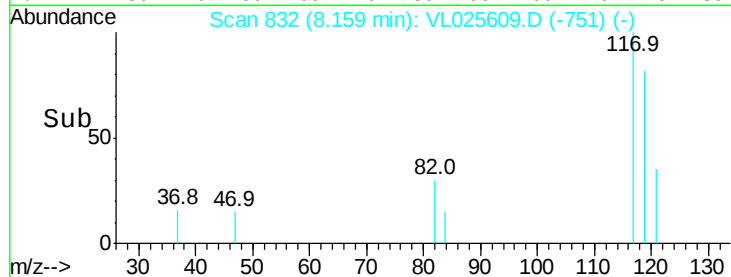
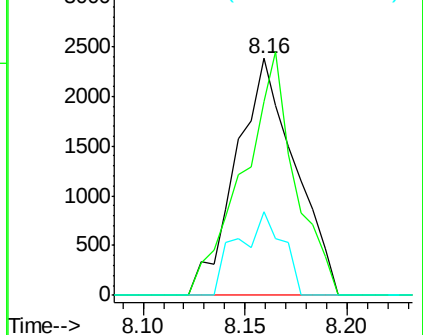
121 35.4 24.4 36.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.03 ppbv

RT: 9.06 min Scan# 980

Delta R.T. -0.01 min

Lab File: VL025609.D

Acq: 7 Jul 2015 13:52

Tgt Ion:130 Resp: 1903

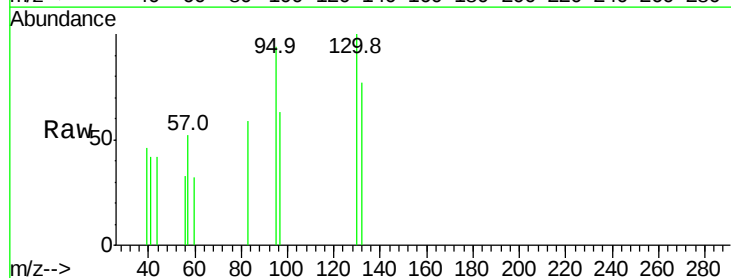
Ion Ratio Lower Upper

130 100

95 93.9 94.2 141.4#

132 77.3 78.6 118.0#

97 62.7 60.6 90.8

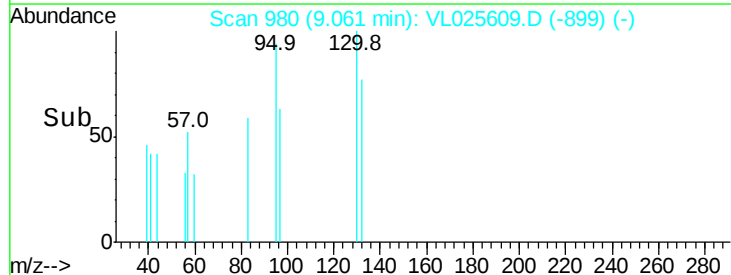
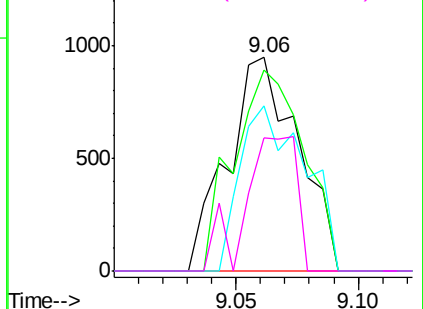


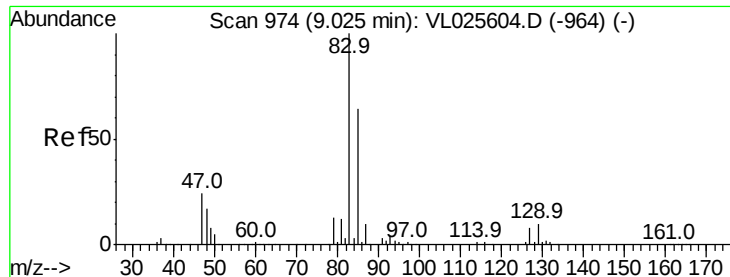
Abundance Ion 130.00 (129.70 to 130.70): V

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





#42

Bromodichloromethane

Concen: 0.03 ppbv

RT: 9.03 min Scan# 975

Delta R.T. 0.01 min

Lab File: VL025609.D

Acq: 7 Jul 2015 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

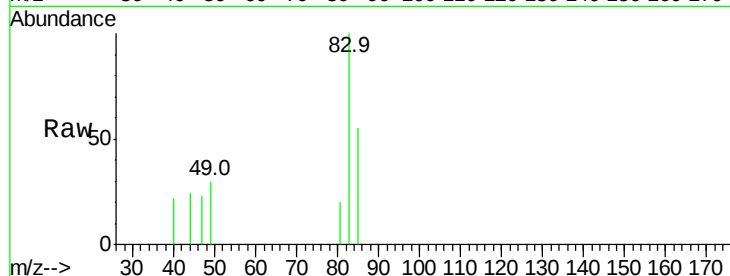
Tgt Ion: 83 Resp: 3757

Ion Ratio Lower Upper

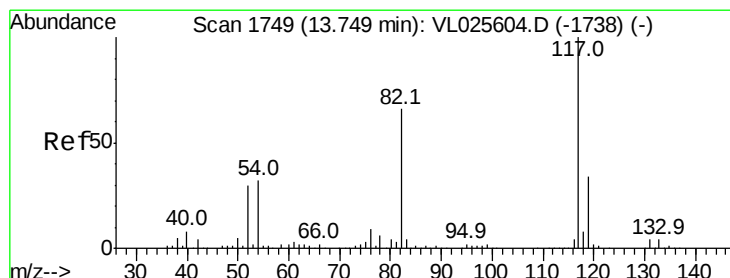
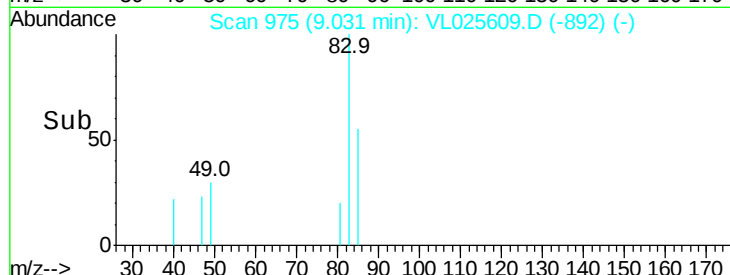
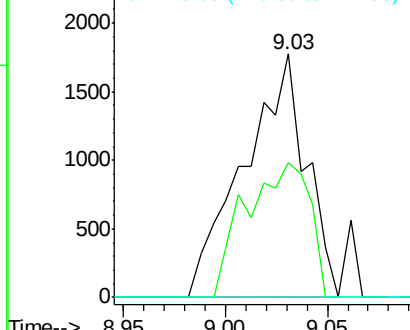
83 100

85 55.4 51.3 76.9

127 0.0 6.0 9.0#



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): V



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.74 min Scan# 1748

Delta R.T. -0.01 min

Lab File: VL025609.D

Acq: 7 Jul 2015 13:52

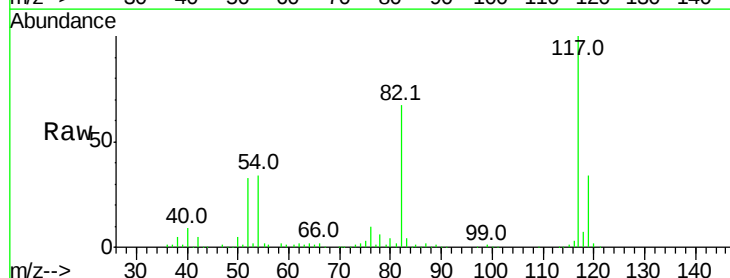
Tgt Ion: 117 Resp: 1876970

Ion Ratio Lower Upper

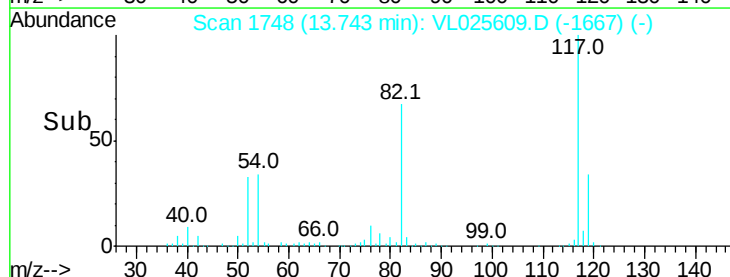
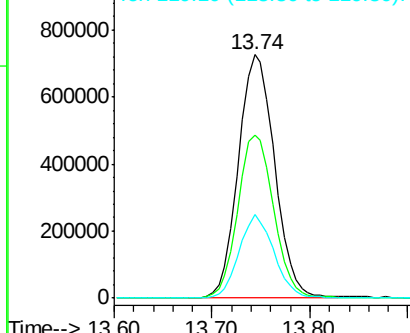
117 100

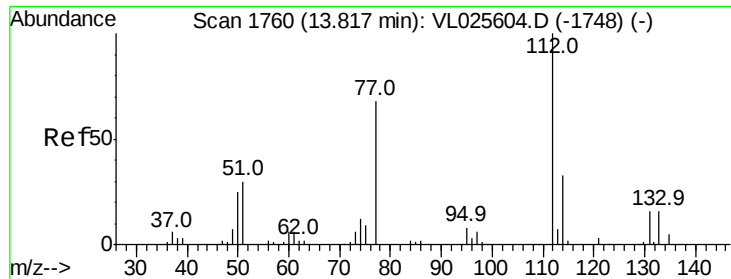
82 67.0 50.5 75.7

119 33.2 45.1 67.7#



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

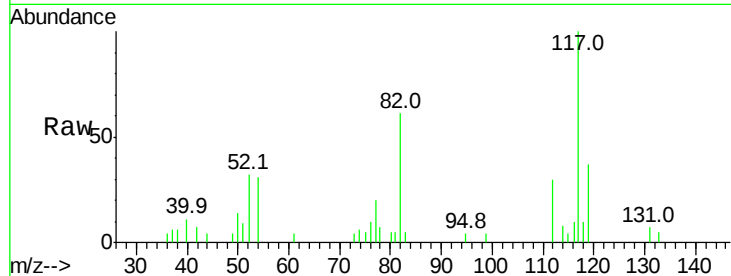




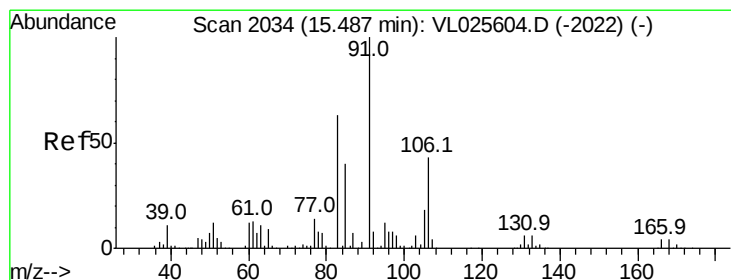
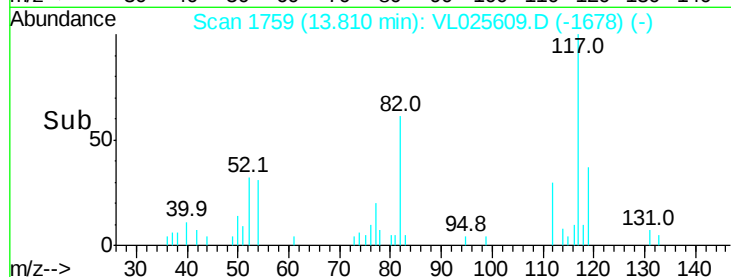
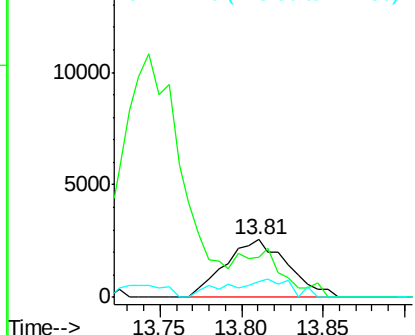
#57
Chlorobenzene
Concen: 0.04 ppbv
RT: 13.81 min Scan# 1759
Delta R.T. -0.01 min
Lab File: VL025609.D
Acq: 7 Jul 2015 13:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 112 Resp: 6871
Ion Ratio Lower Upper
112 100
77 68.8 55.2 82.8
114 28.1 29.4 36.0#

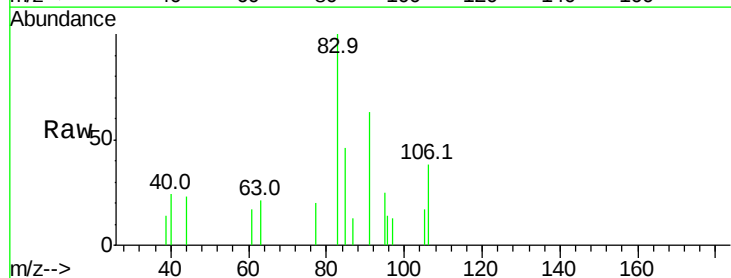


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

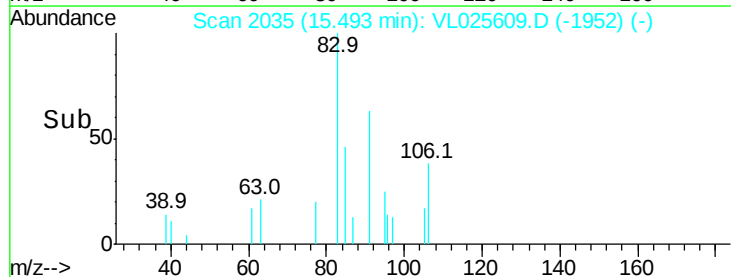
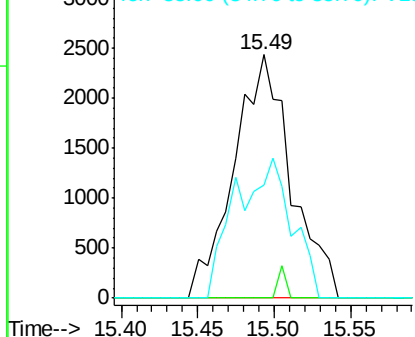


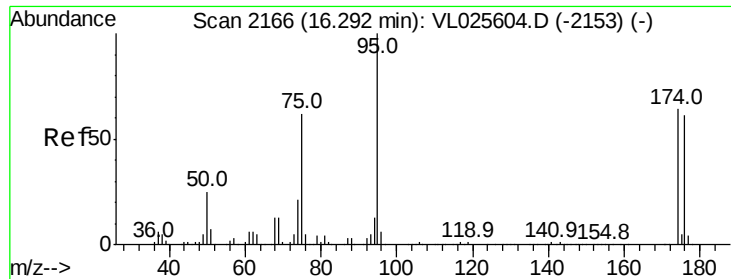
#63
1,1,2,2-Tetrachloroethane
Concen: 0.03 ppbv
RT: 15.49 min Scan# 2035
Delta R.T. 0.01 min
Lab File: VL025609.D
Acq: 7 Jul 2015 13:52

Tgt Ion: 83 Resp: 6364
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.4#
85 56.3 32.4 97.2



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0

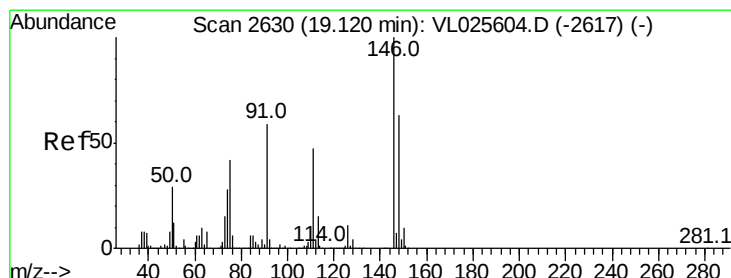
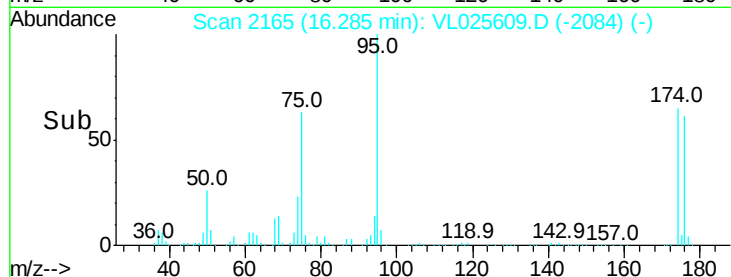
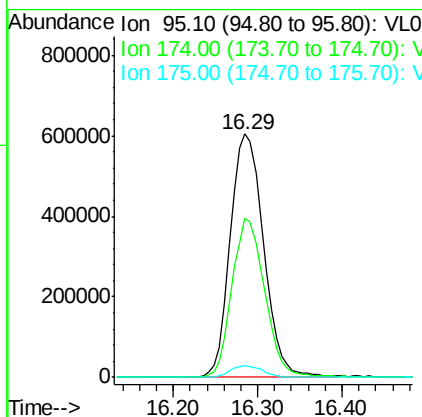
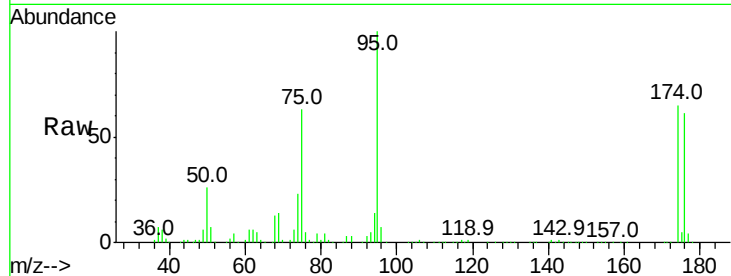




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.46 ppbv
 RT: 16.29 min Scan# 2165
 Delta R.T. -0.01 min
 Lab File: VL025609.D
 Acq: 7 Jul 2015 13:52

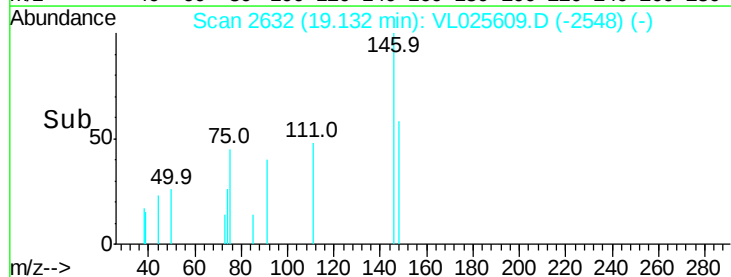
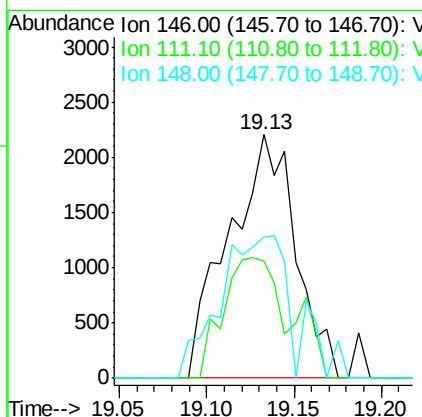
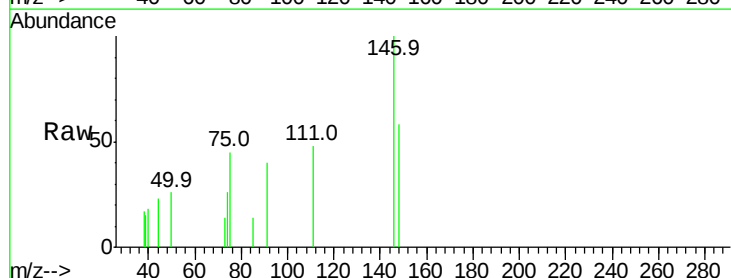
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

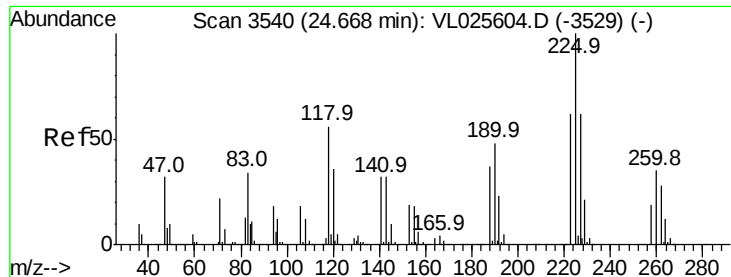
Tgt Ion: 95 Resp: 1621576
 Ion Ratio Lower Upper
 95 100
 174 64.7 52.0 78.0
 175 4.9 3.9 5.9



#75
 1,3-Dichlorobenzene
 Concen: 0.03 ppbv
 RT: 19.13 min Scan# 2632
 Delta R.T. 0.01 min
 Lab File: VL025609.D
 Acq: 7 Jul 2015 13:52

Tgt Ion: 146 Resp: 5863
 Ion Ratio Lower Upper
 146 100
 111 49.9 22.7 68.1
 148 65.4 31.8 95.3





#78

Hexachloro-1,3-Butadiene

Concen: 0.05 ppbv

RT: 24.67 min Scan# 3541

Delta R.T. 0.01 min

Lab File: VL025609.D

Acq: 7 Jul 2015 13:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

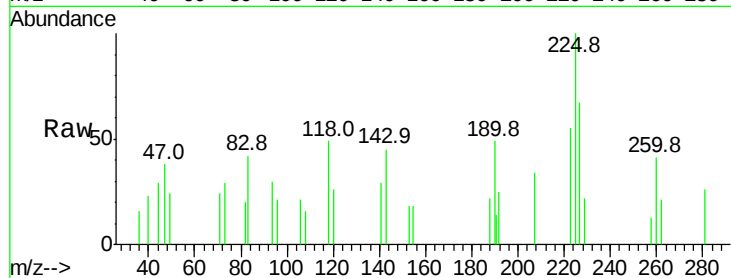
Tgt Ion: 225 Resp: 5049

Ion Ratio Lower Upper

225 100

223 63.7 50.6 76.0

227 58.7 50.5 75.7



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

