

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031238.D
 Acq On : 14 Dec 2017 19:04
 Operator : SY/AP
 Sample : I6907-03DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 15 05:18:07 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Dec 14 04:29:58 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1711827	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	4062527	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	4087836	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	3195150	10.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.90%

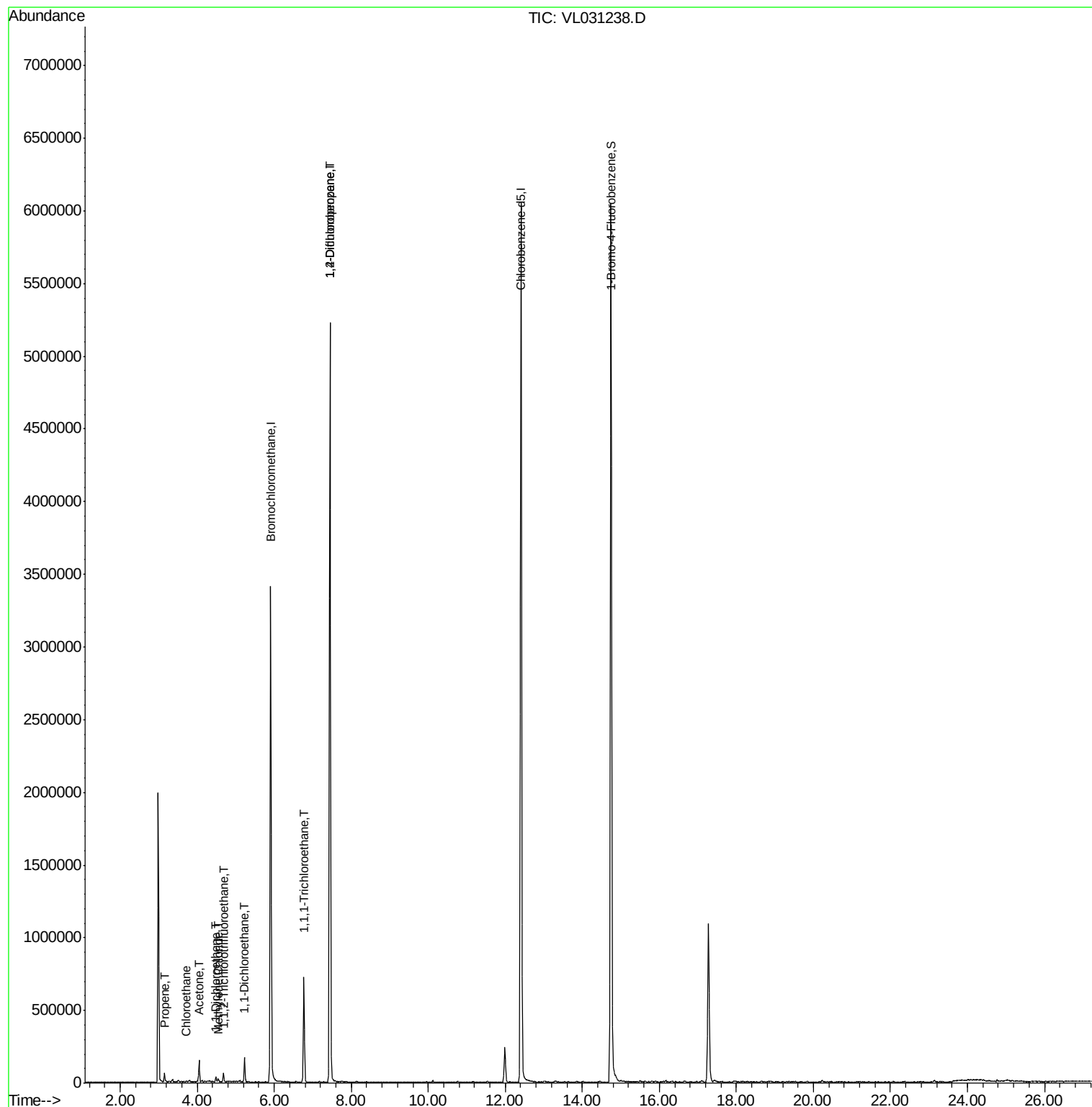
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
7) Chloroethane	3.71	64	2146	0.053	ppbv	98
9) Propene	3.15	41	12267	0.128	ppbv #	66
12) 1,1,2-Trichlorotrifluoroet	4.68	101	21911	0.132	ppbv	97
15) Acetone	4.05	43	59768	0.265	ppbv #	70
18) 1,1-Dichloroethene	4.48	96	4847	0.065	ppbv	79
20) Methylene Chloride	4.54	84	6022	0.081	ppbv #	71
24) 1,1-Dichloroethane	5.23	63	138461	0.524	ppbv	98
32) 1,1,1-Trichloroethane	6.77	97	447686	1.417	ppbv	98
39) 1,2-Dichloropropane	7.45	63	998241	6.558	ppbv #	27

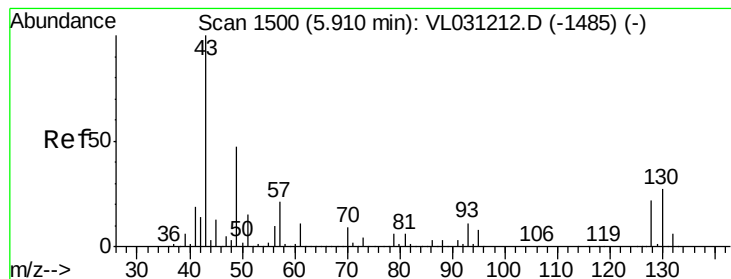
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 04:29:58 2017
QLast Update : Thu Dec 14 04:29:58 2017
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.91 min Scan# 1499

Delta R.T. -0.00 min

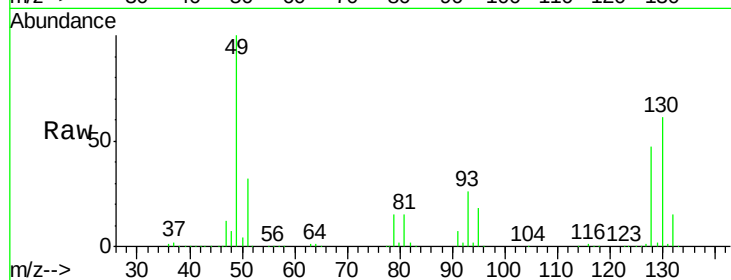
Lab File: VL031238.D

Acq: 14 Dec 2017 19:04

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1711827

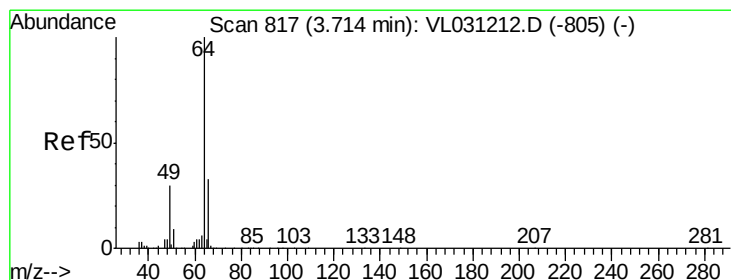
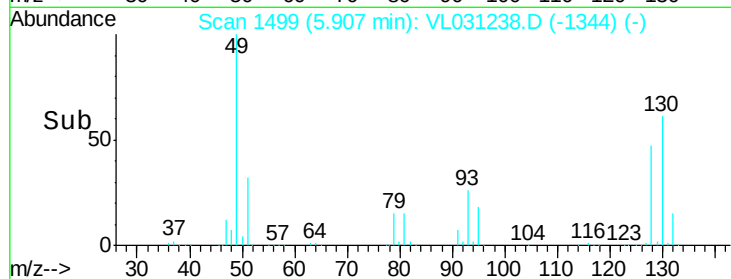
Ion	Ratio	Lower	Upper
49	100		
128	48.9	23.2	69.5
130	62.7	29.6	88.8



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



#7

Chloroethane

Concen: 0.053 ppbv

RT: 3.71 min Scan# 817

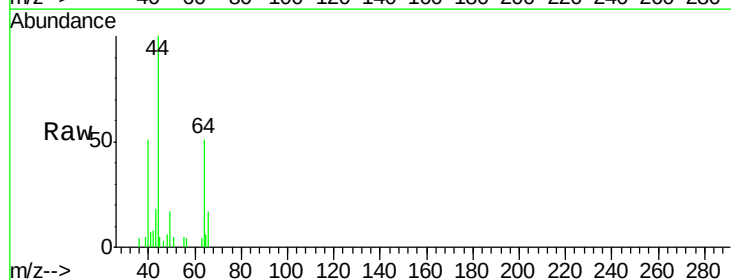
Delta R.T. 0.00 min

Lab File: VL031238.D

Acq: 14 Dec 2017 19:04

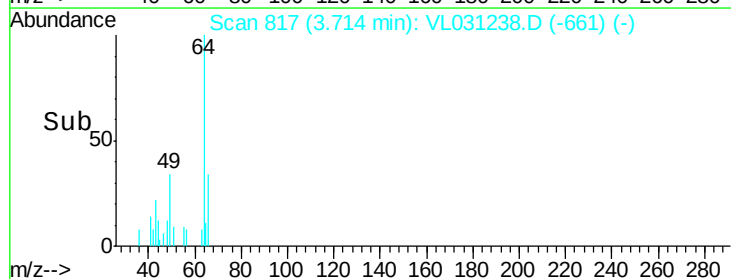
Tgt Ion: 64 Resp: 2146

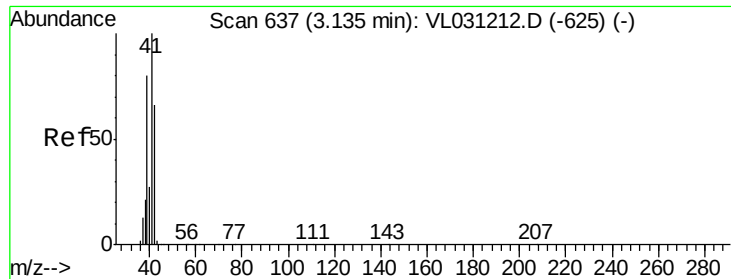
Ion	Ratio	Lower	Upper
64	100		
66	33.6	26.2	39.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 0.128 ppbv

RT: 3.15 min Scan# 641

Delta R.T. 0.01 min

Lab File: VL031238.D

Acq: 14 Dec 2017 19:04

Instrument :

MSVOA_L

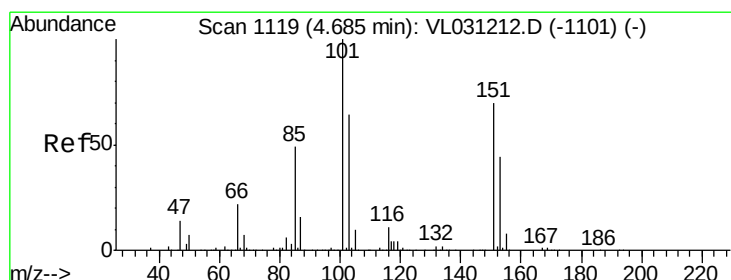
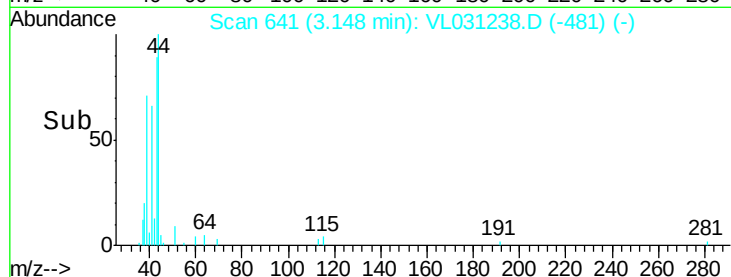
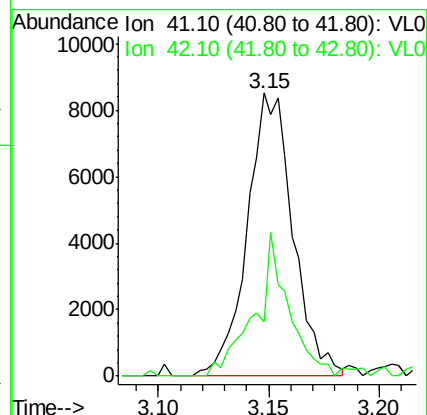
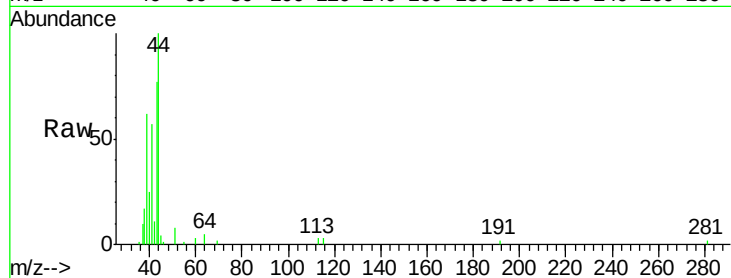
ClientSampleId :

Tot Ion: 41 Resp: 12267

Ion Ratio Lower Upper

41 100

42 40.6 54.3 81.5#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.132 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. 0.00 min

Lab File: VL031238.D

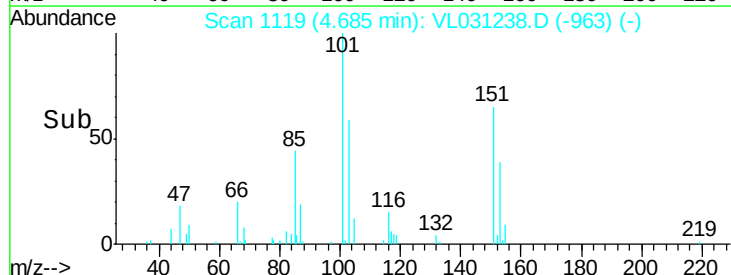
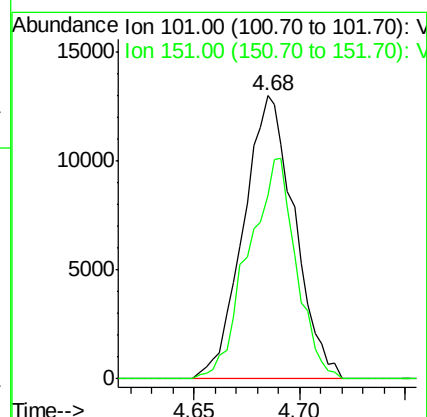
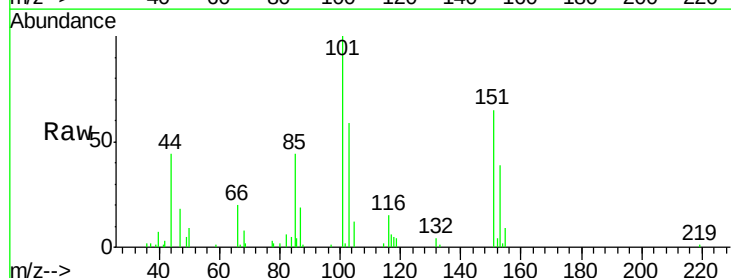
Acq: 14 Dec 2017 19:04

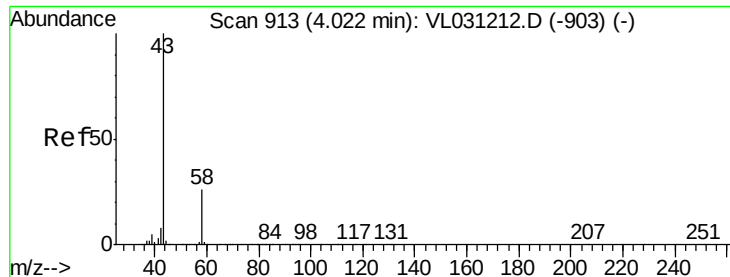
Tgt Ion: 101 Resp: 21911

Ion Ratio Lower Upper

101 100

151 73.0 56.5 84.7





#15

Acetone

Concen: 0.265 ppbv

RT: 4.05 min Scan# 921

Delta R.T. 0.03 min

Lab File: VL031238.D

Acq: 14 Dec 2017 19:04

Instrument :

MSVOA_L

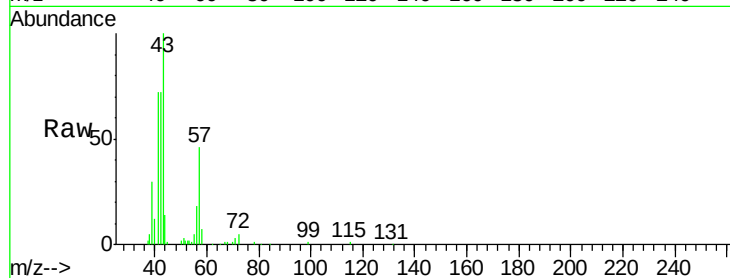
ClientSampleId :

Tot Ion: 43 Resp: 59768

Ion Ratio Lower Upper

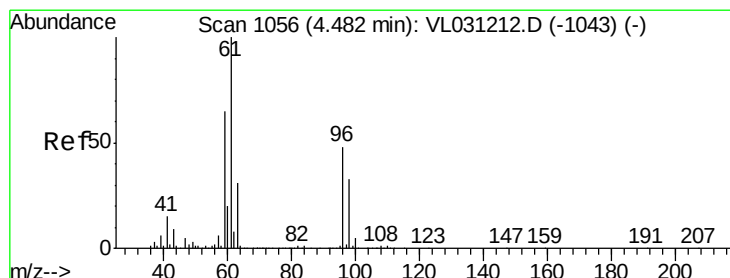
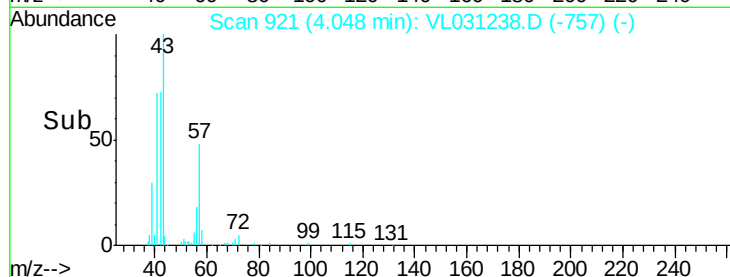
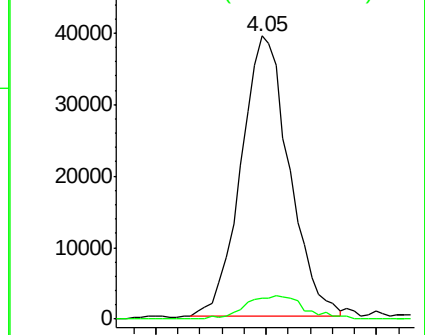
43 100

58 10.2 20.3 30.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 0.065 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VL031238.D

Acq: 14 Dec 2017 19:04

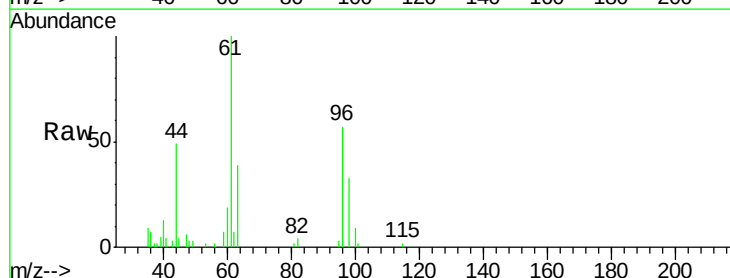
Tgt Ion: 96 Resp: 4847

Ion Ratio Lower Upper

96 100

61 172.4 166.8 250.2

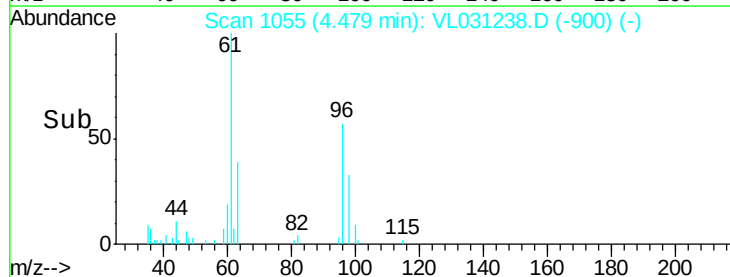
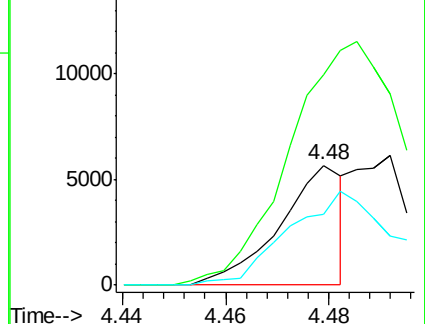
98 58.6 55.0 82.6

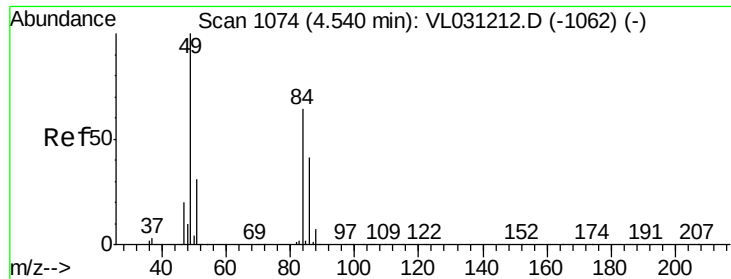


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

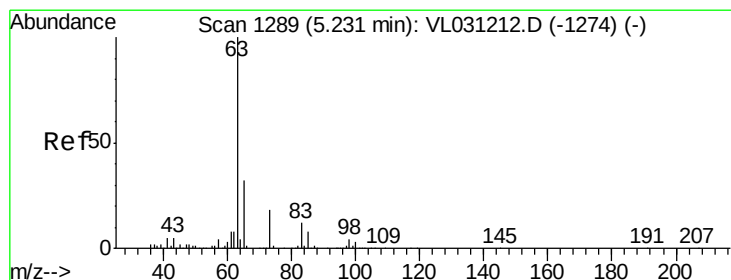
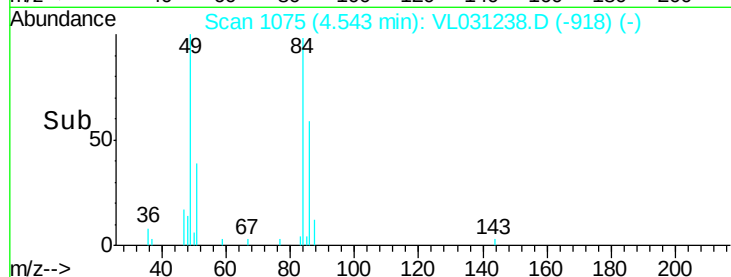
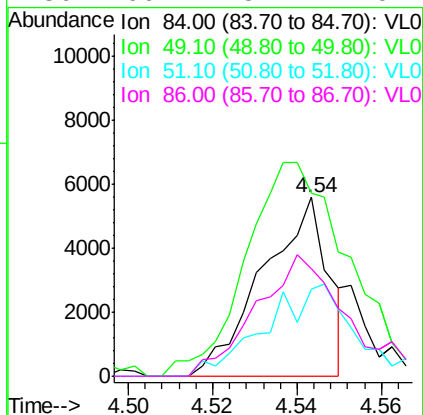
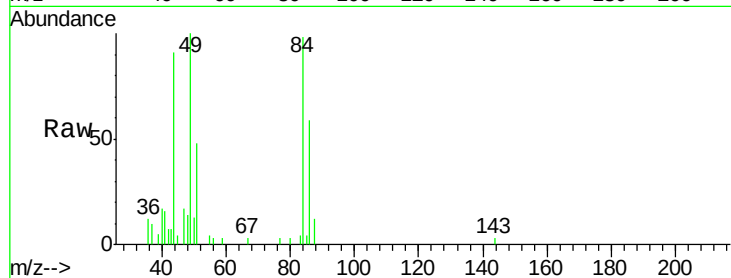




#20
Methylene Chloride
Concen: 0.081 ppbv
RT: 4.54 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VL031238.D
Acq: 14 Dec 2017 19:04

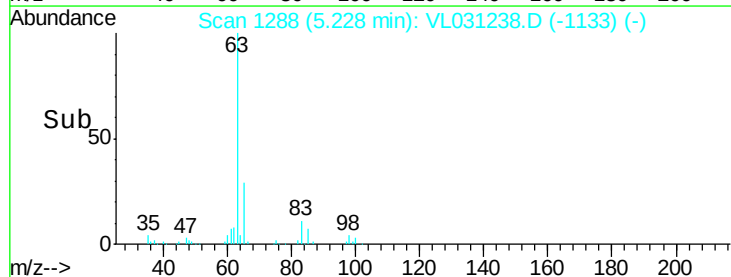
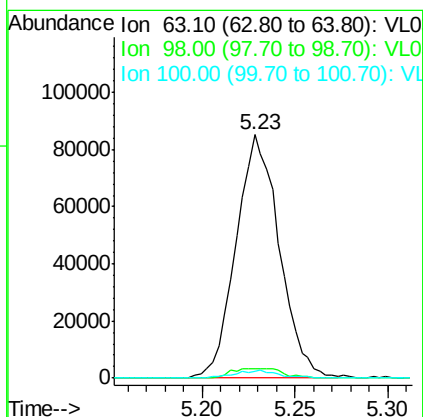
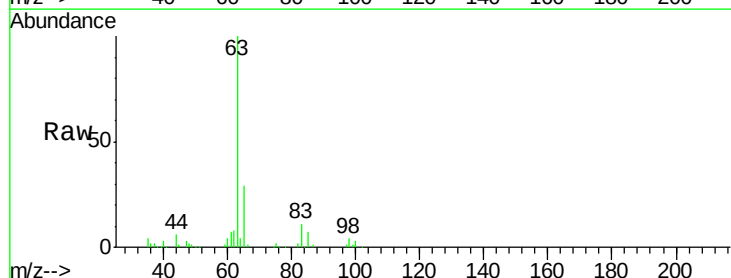
Instrument :
MSVOA_L
ClientSampleId :

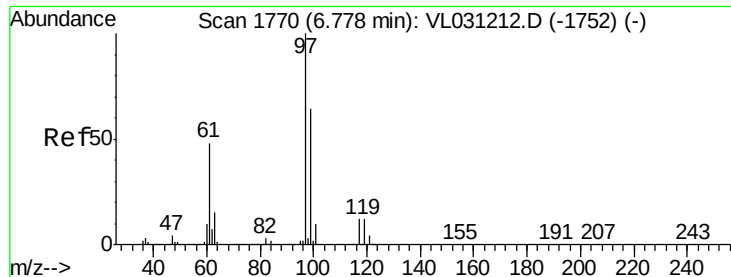
Tot Ion: 84 Resp: 6022
Ion Ratio Lower Upper
84 100
49 94.0 125.8 188.6#
51 48.7 39.3 58.9
86 60.4 51.1 76.7



#24
1,1-Dichloroethane
Concen: 0.524 ppbv
RT: 5.23 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VL031238.D
Acq: 14 Dec 2017 19:04

Tgt Ion: 63 Resp: 138461
Ion Ratio Lower Upper
63 100
98 3.6 2.3 6.8
100 2.7 1.4 4.2





#32

1,1,1-Trichloroethane

Concen: 1.417 ppbv

RT: 6.77 min Scan# 1768

Delta R.T. -0.01 min

Lab File: VL031238.D

Acq: 14 Dec 2017 19:04

Instrument :

MSVOA_L

ClientSampled :

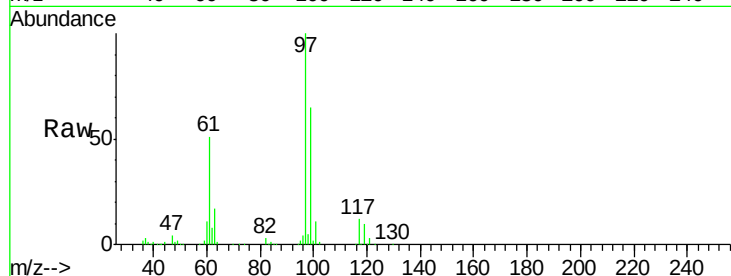
Tot Ion: 97 Resp: 447686

Ion Ratio Lower Upper

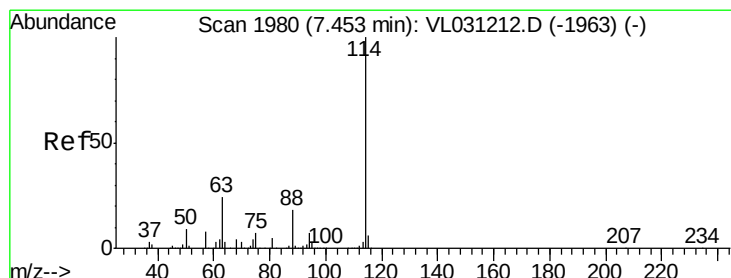
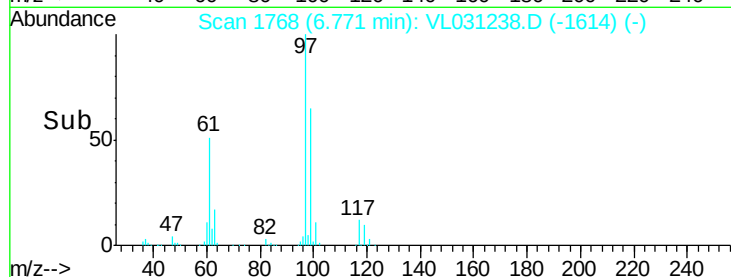
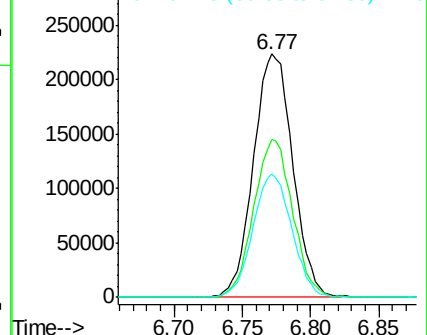
97 100

99 64.0 51.4 77.0

61 50.2 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.45 min Scan# 1978

Delta R.T. -0.01 min

Lab File: VL031238.D

Acq: 14 Dec 2017 19:04

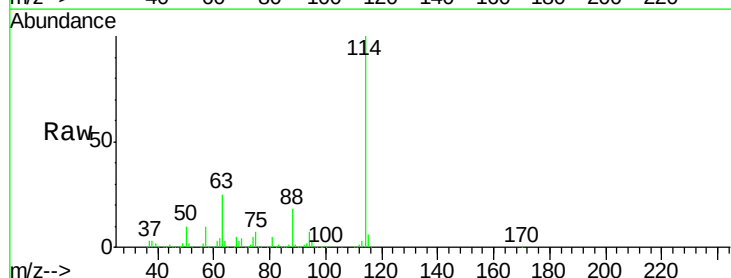
Tgt Ion: 114 Resp: 4062527

Ion Ratio Lower Upper

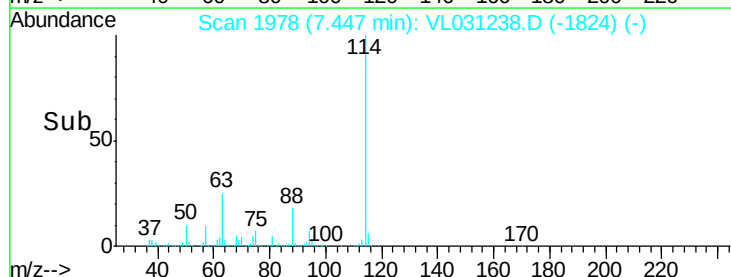
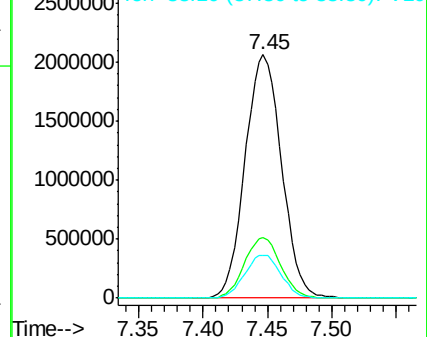
114 100

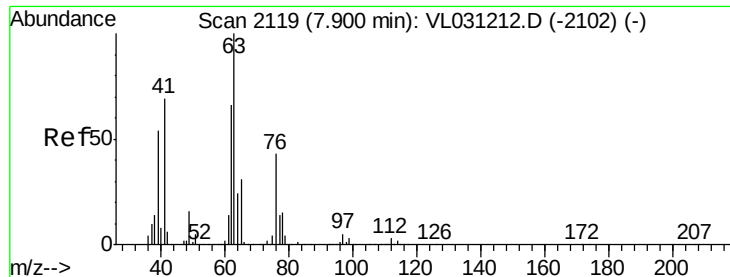
63 24.8 19.8 29.8

88 17.8 14.2 21.4



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

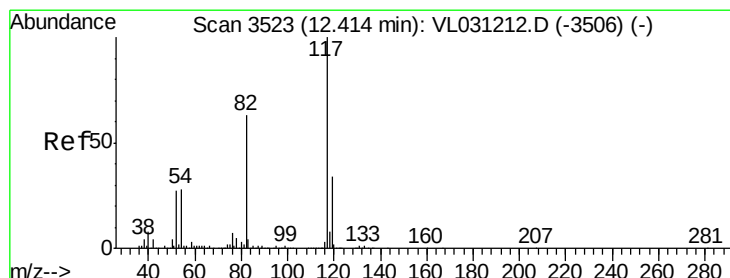
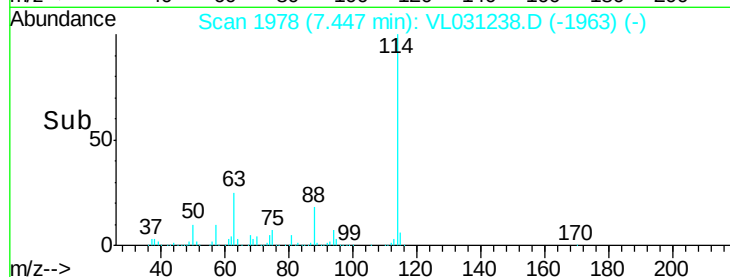
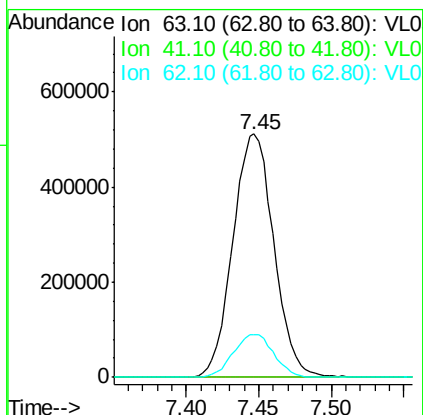
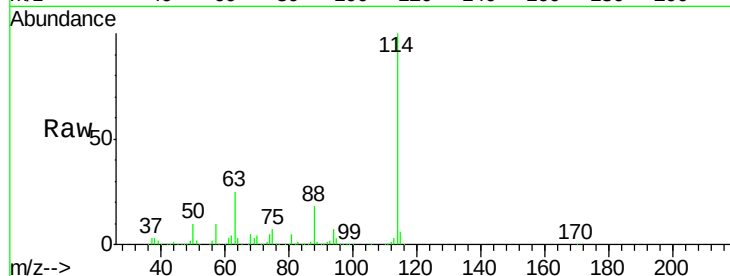




#39
 1,2-Dichloropropane
 Concen: 6.558 ppbv
 RT: 7.45 min Scan# 1978
 Delta R.T. -0.45 min
 Lab File: VL031238.D
 Acq: 14 Dec 2017 19:04

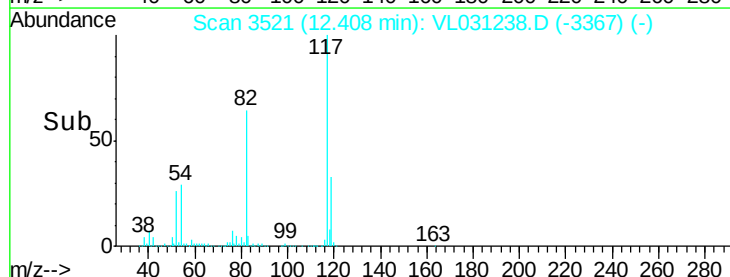
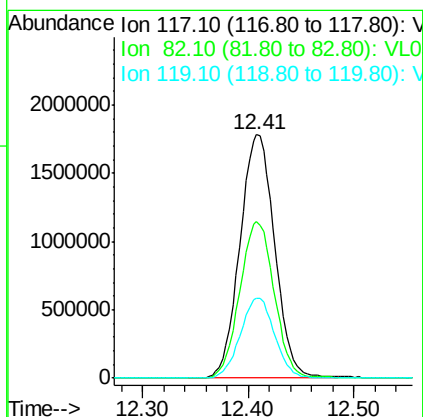
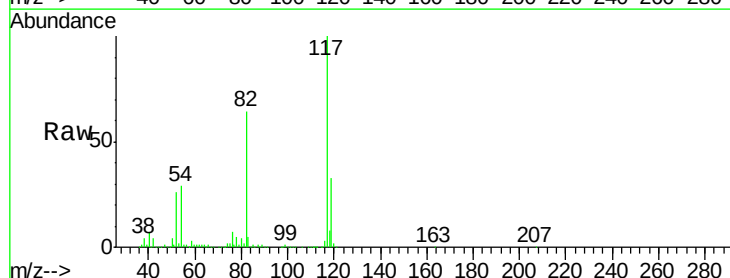
Instrument :
 MSVOA_L
 ClientSampleId :

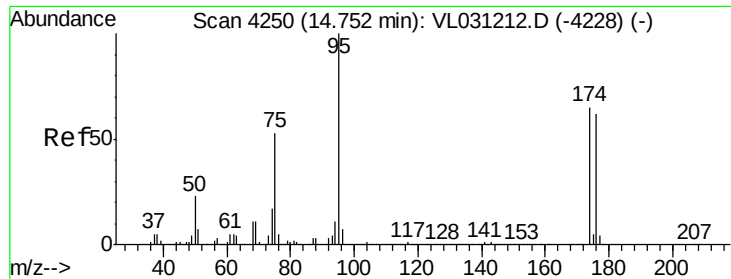
Tot Ion: 63 Resp: 998241
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.2 82.8#
 62 17.3 53.0 79.4#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.41 min Scan# 3521
 Delta R.T. -0.01 min
 Lab File: VL031238.D
 Acq: 14 Dec 2017 19:04

Tgt Ion: 117 Resp: 4087836
 Ion Ratio Lower Upper
 117 100
 82 64.2 48.1 72.1
 119 32.7 23.1 34.7

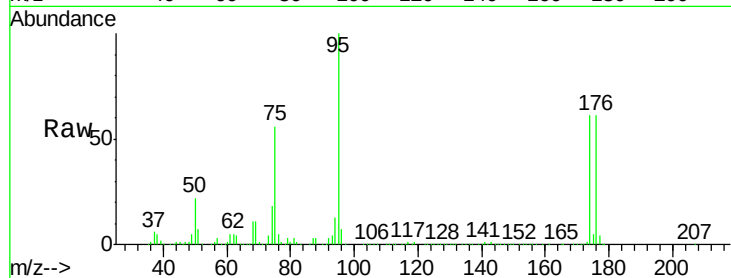




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.989 ppbv
 RT: 14.75 min Scan# 4248
 Delta R.T. -0.01 min
 Lab File: VL031238.D
 Acq: 14 Dec 2017 19:04

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 3195150
 Ion Ratio Lower Upper
 95 100
 174 62.1 52.5 78.7
 175 4.6 4.1 6.1



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

