

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031232.D
 Acq On : 14 Dec 2017 15:10
 Operator : SY/AP
 Sample : I6907-01DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 15 05:16:22 2017
 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1651598	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3971350	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	4041501	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	3159429	10.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.90%

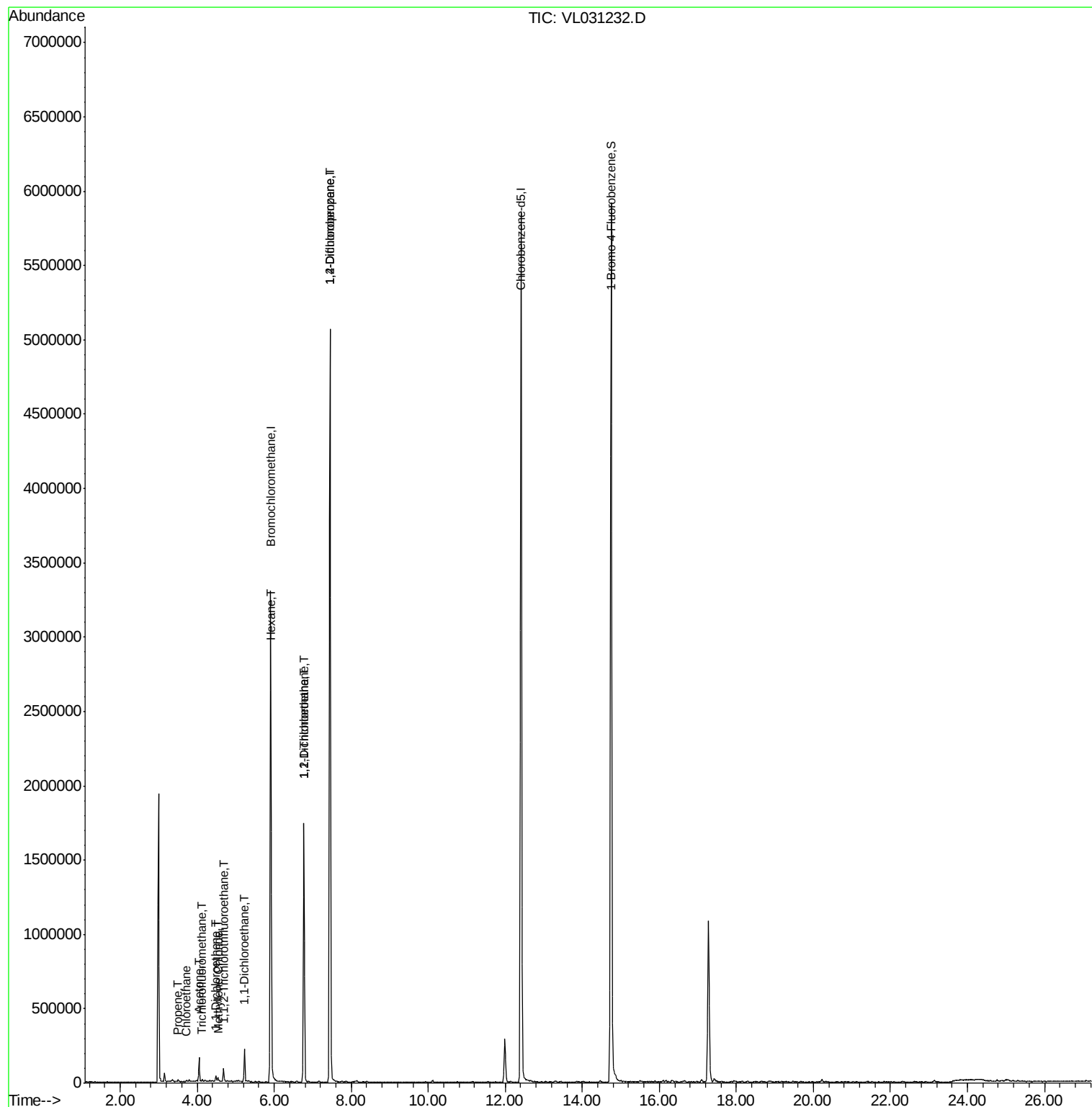
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
7) Chloroethane	3.72	64	5046	0.130	ppbv #	82
9) Propene	3.50	41	2830	0.031	ppbv	95
11) Trichlorofluoromethane	4.13	101	8500	0.037	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.69	101	29223	0.182	ppbv	93
15) Acetone	4.05	43	68119	0.313	ppbv #	74
18) 1,1-Dichloroethene	4.49	96	10910	0.152	ppbv #	68
20) Methylene Chloride	4.54	84	3815	0.053	ppbv #	68
24) 1,1-Dichloroethane	5.23	63	180859	0.709	ppbv	99
26) Hexane	5.93	57	7277	0.034	ppbv #	47
32) 1,1,1-Trichloroethane	6.77	97	1102476	3.616	ppbv	99
37) 1,2-Dichloroethane	6.77	62	74599	0.321	ppbv #	1
39) 1,2-Dichloropropane	7.45	63	952364	6.400	ppbv #	26

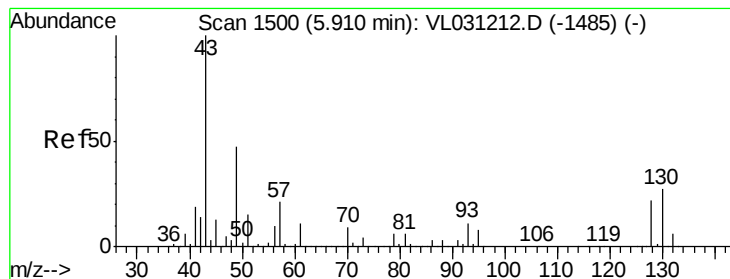
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
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Quant Time: Dec 15 05:16:22 2017
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: VL031232.D

Acq: 14 Dec 2017 15:10

Instrument :
MSVOA_L
ClientSampleId :

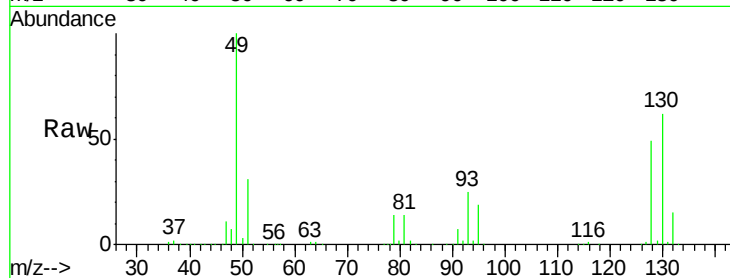
Tot Ion: 49 Resp: 1651598

Ion Ratio Lower Upper

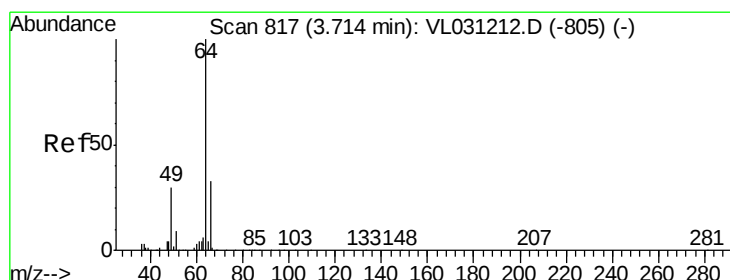
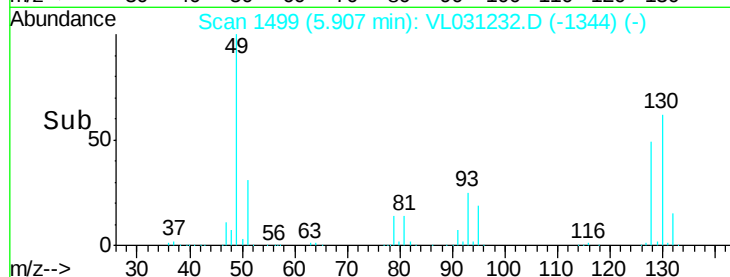
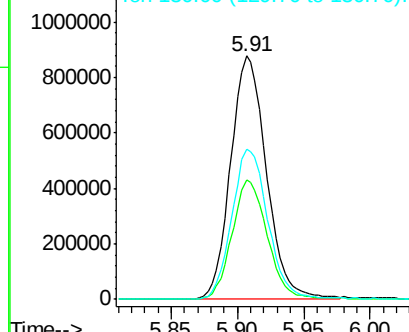
49 100

128 48.9 23.2 69.5

130 63.1 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: 0.130 ppbv

RT: 3.72 min Scan# 819

Delta R.T. 0.01 min

Lab File: VL031232.D

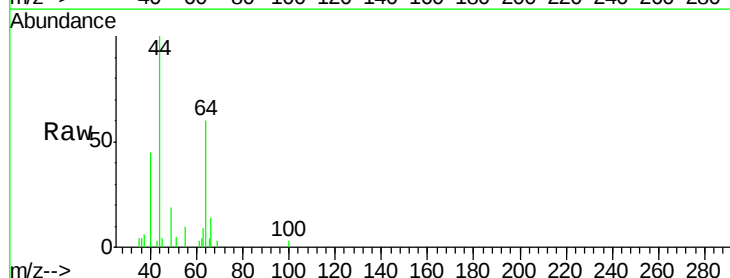
Acq: 14 Dec 2017 15:10

Tgt Ion: 64 Resp: 5046

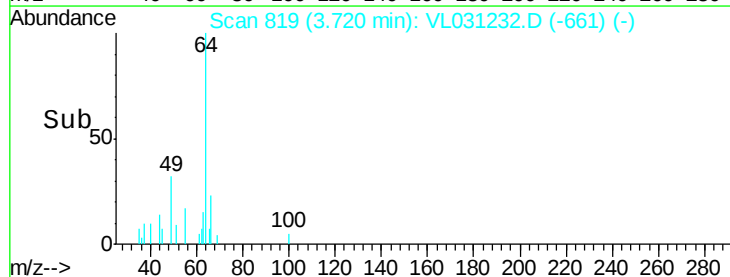
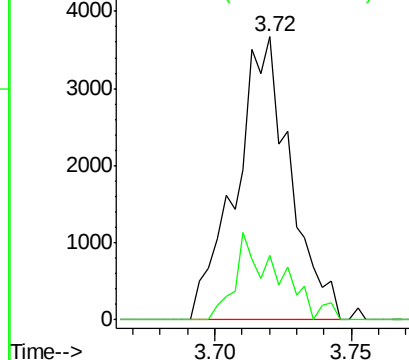
Ion Ratio Lower Upper

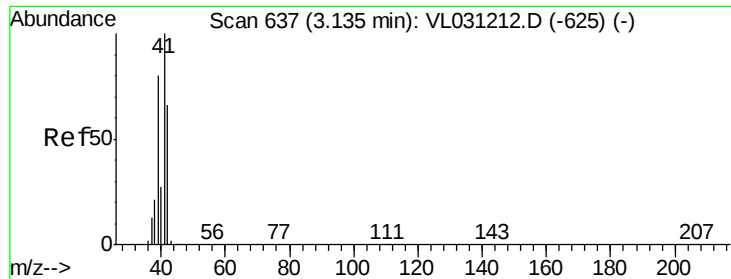
64 100

66 22.8 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: 0.031 ppbv

RT: 3.50 min Scan# 751

Delta R.T. 0.37 min

Lab File: VL031232.D

Acq: 14 Dec 2017 15:10

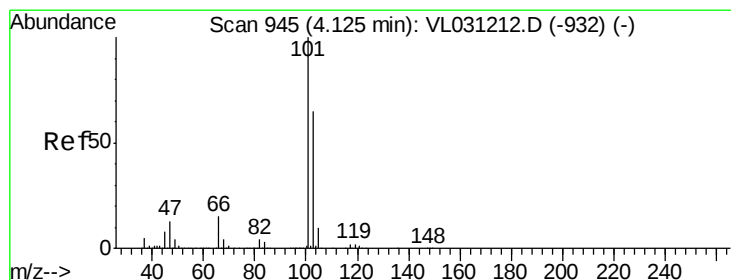
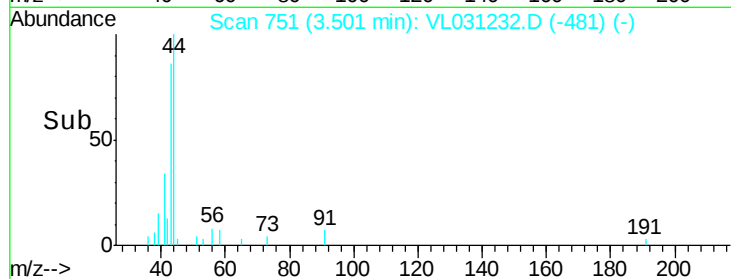
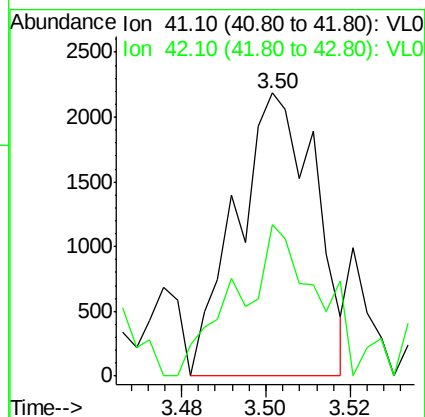
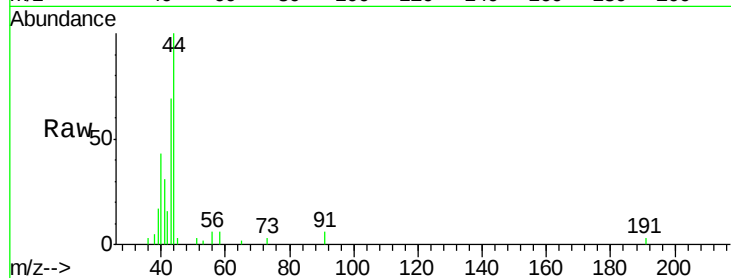
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 2830

Ion Ratio Lower Upper

41 100

42 63.9 54.3 81.5



#11

Trichlorofluoromethane

Concen: 0.037 ppbv

RT: 4.13 min Scan# 946

Delta R.T. 0.00 min

Lab File: VL031232.D

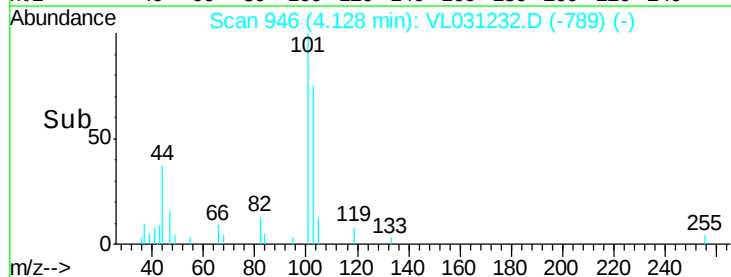
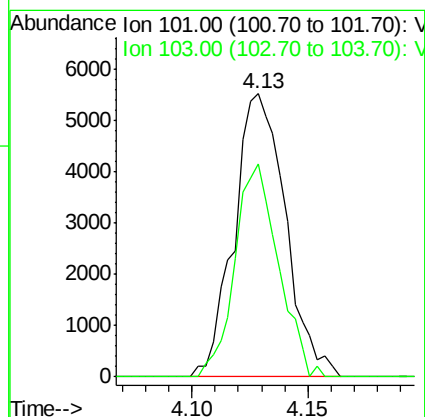
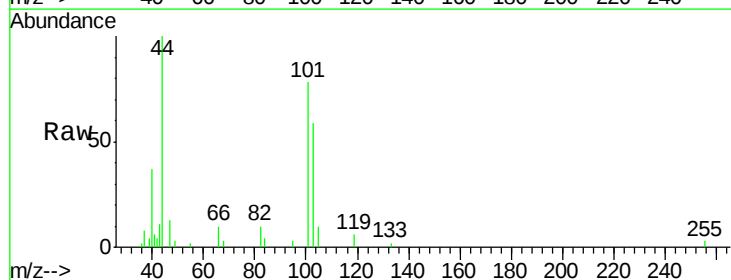
Acq: 14 Dec 2017 15:10

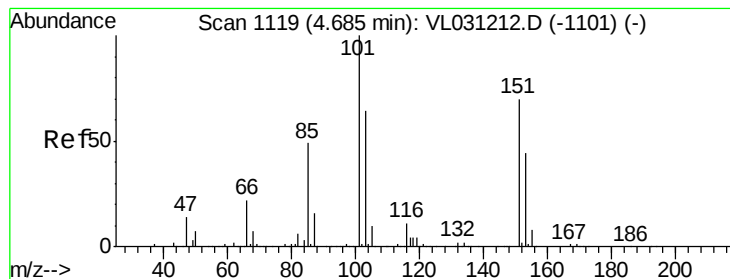
Tgt Ion: 101 Resp: 8500

Ion Ratio Lower Upper

101 100

103 75.2 51.8 77.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.182 ppbv

RT: 4.69 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VL031232.D

Acq: 14 Dec 2017 15:10

Instrument :

MSVOA_L

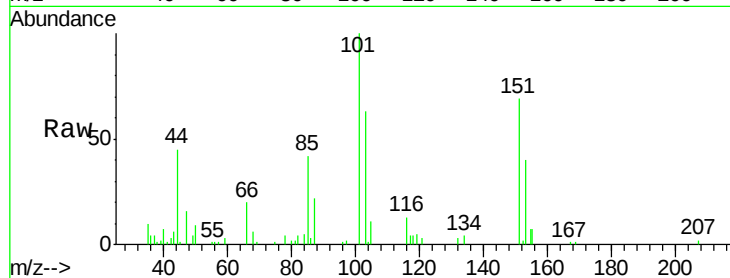
ClientSampleId :

Tot Ion:101 Resp: 29223

Ion Ratio Lower Upper

101 100

151 76.4 56.5 84.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

20000

15000

10000

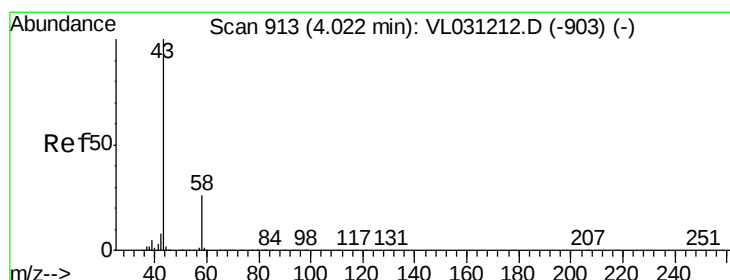
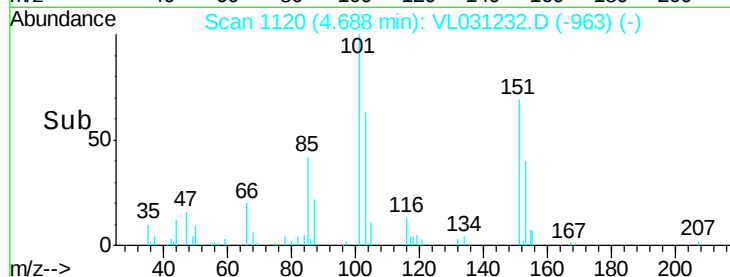
5000

0

4.65

4.70

Time-->



#15

Acetone

Concen: 0.313 ppbv

RT: 4.05 min Scan# 921

Delta R.T. 0.03 min

Lab File: VL031232.D

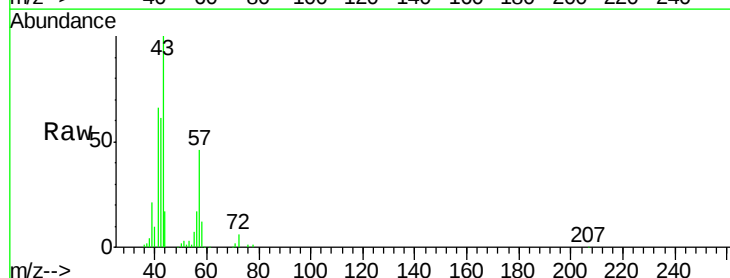
Acq: 14 Dec 2017 15:10

Tgt Ion: 43 Resp: 68119

Ion Ratio Lower Upper

43 100

58 12.2 20.3 30.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

50000

40000

30000

20000

10000

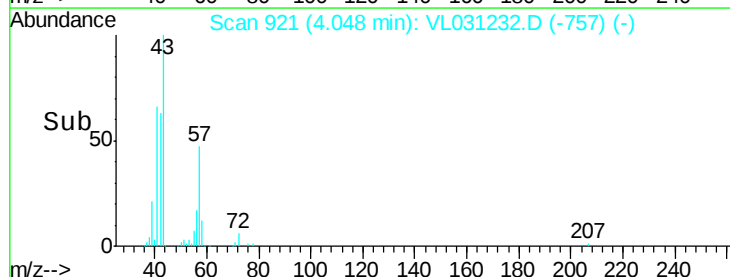
0

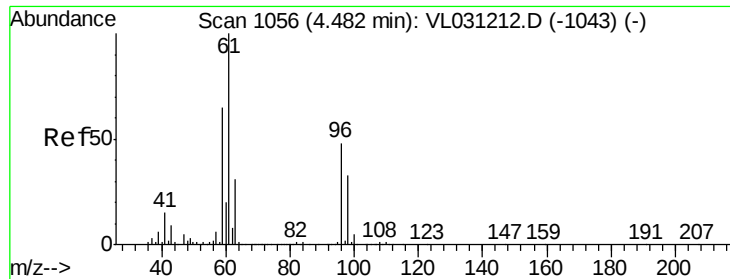
4.00

4.05

4.10

Time-->

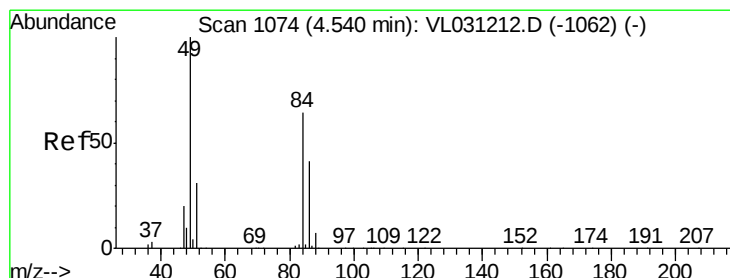
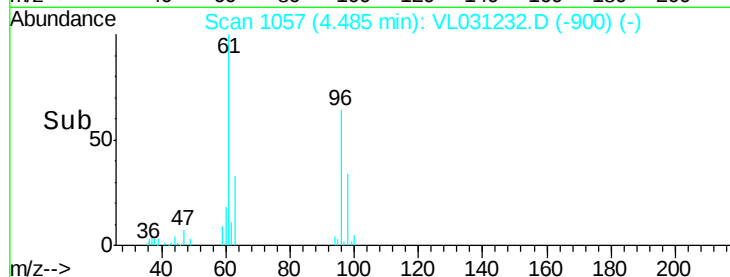
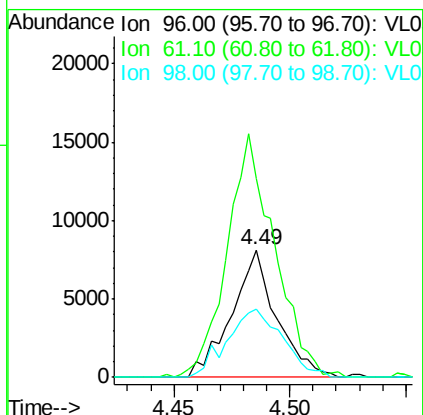
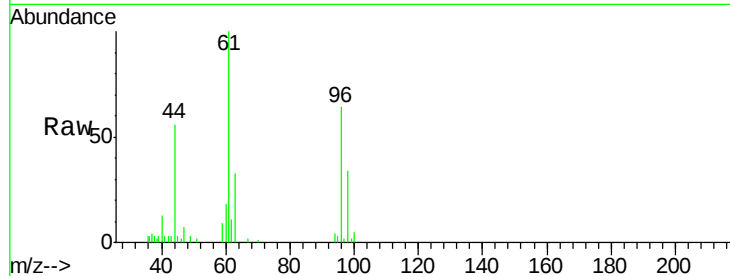




#18
 1,1-Dichloroethene
 Concen: 0.152 ppbv
 RT: 4.49 min Scan# 1057
 Delta R.T. 0.00 min
 Lab File: VL031232.D
 Acq: 14 Dec 2017 15:10

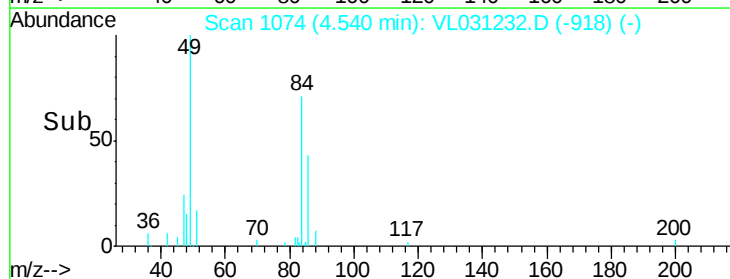
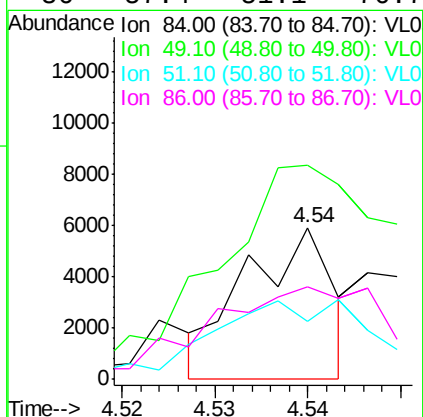
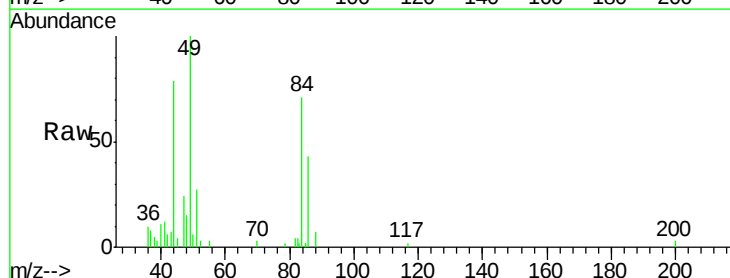
Instrument :
 MSVOA_L
 ClientSampleId :

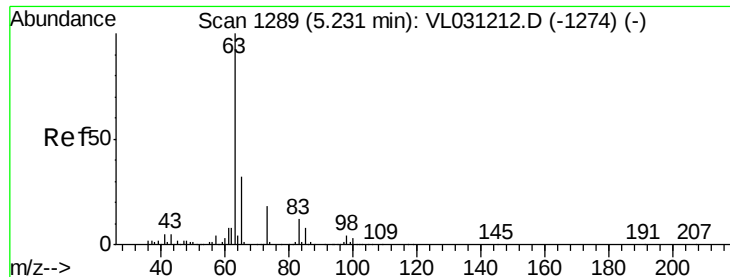
Tot Ion: 96 Resp: 10910
 Ion Ratio Lower Upper
 96 100
 61 151.6 166.8 250.2#
 98 53.1 55.0 82.6#



#20
 Methylene Chloride
 Concen: 0.053 ppbv
 RT: 4.54 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VL031232.D
 Acq: 14 Dec 2017 15:10

Tgt Ion: 84 Resp: 3815
 Ion Ratio Lower Upper
 84 100
 49 105.6 125.8 188.6#
 51 21.6 39.3 58.9#
 86 57.4 51.1 76.7





#24

1,1-Dichloroethane

Concen: 0.709 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VL031232.D

Acq: 14 Dec 2017 15:10

Instrument :

MSVOA_L

ClientSampleId :

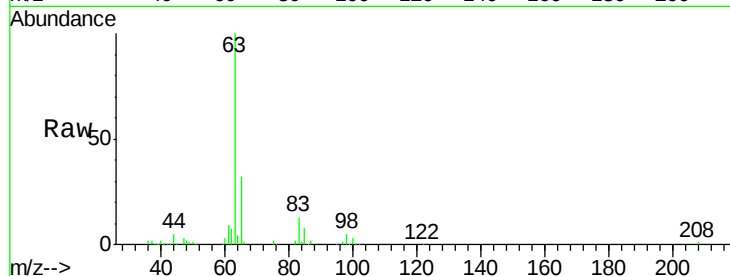
Tot Ion: 63 Resp: 180859

Ion Ratio Lower Upper

63 100

98 4.8 2.3 6.8

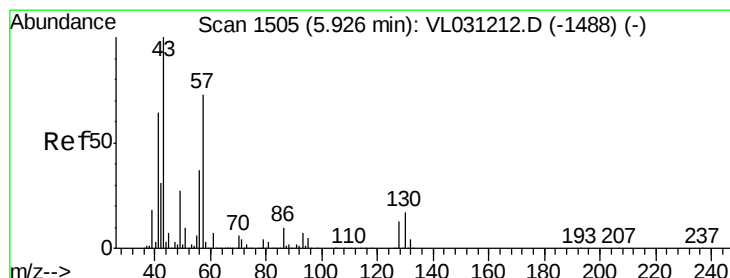
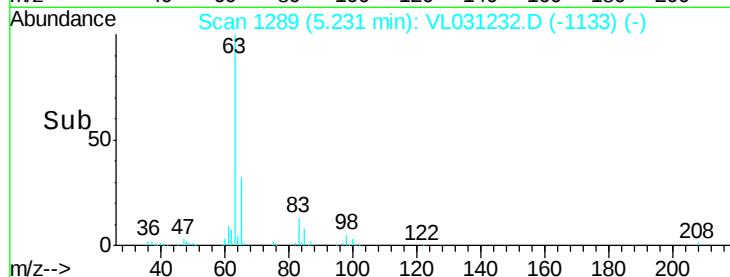
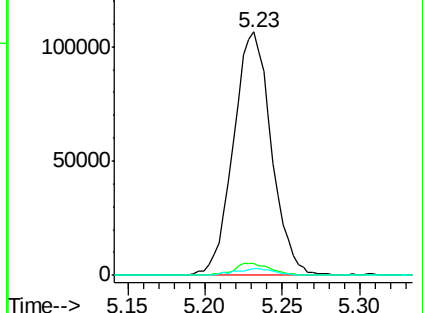
100 3.0 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#26

Hexane

Concen: 0.034 ppbv

RT: 5.93 min Scan# 1505

Delta R.T. 0.00 min

Lab File: VL031232.D

Acq: 14 Dec 2017 15:10

Tgt Ion: 57 Resp: 7277

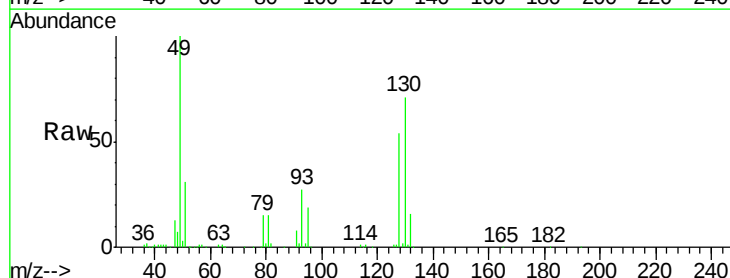
Ion Ratio Lower Upper

57 100

41 104.5 70.3 105.5

43 92.8 173.8 260.8#

56 58.9 41.7 62.5

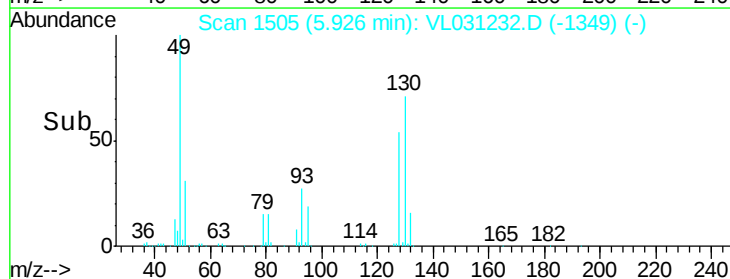
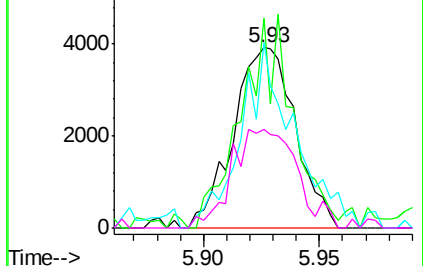


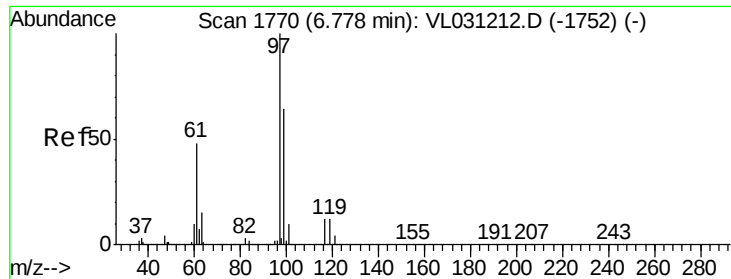
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#32

1,1,1-Trichloroethane

Concen: 3.616 ppbv

RT: 6.77 min Scan# 1768

Delta R.T. -0.01 min

Lab File: VL031232.D

Acq: 14 Dec 2017 15:10

Instrument :

MSVOA_L

ClientSampleId :

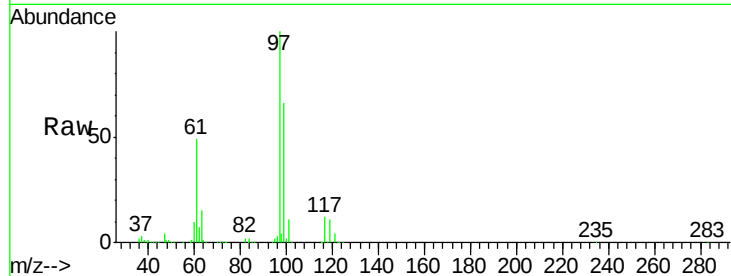
Tot Ion: 97 Resp: 1102476

Ion Ratio Lower Upper

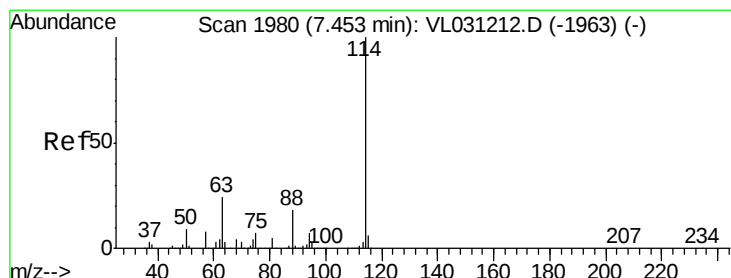
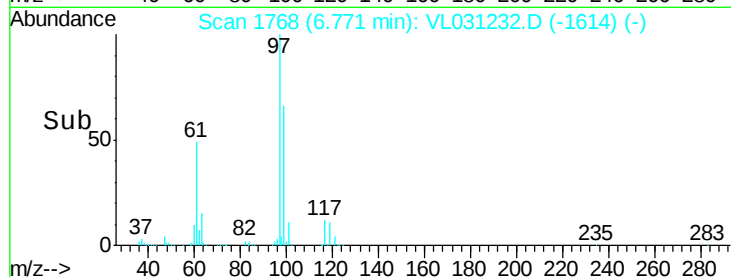
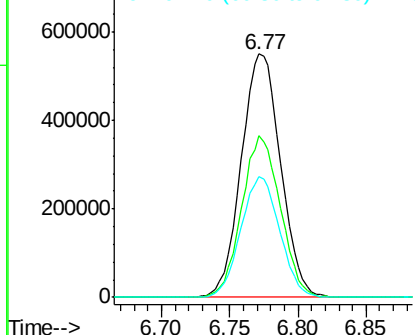
97 100

99 65.1 51.4 77.0

61 49.0 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: VL031232.D

Acq: 14 Dec 2017 15:10

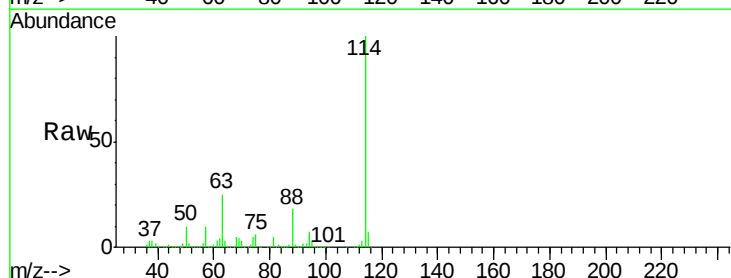
Tgt Ion: 114 Resp: 3971350

Ion Ratio Lower Upper

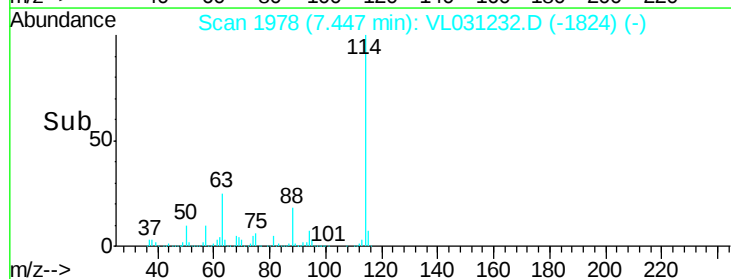
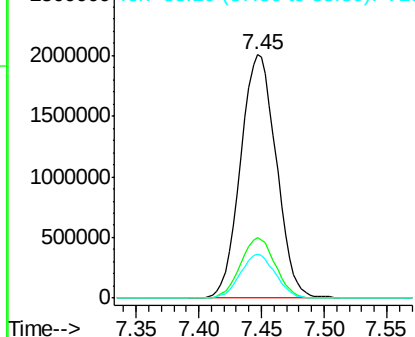
114 100

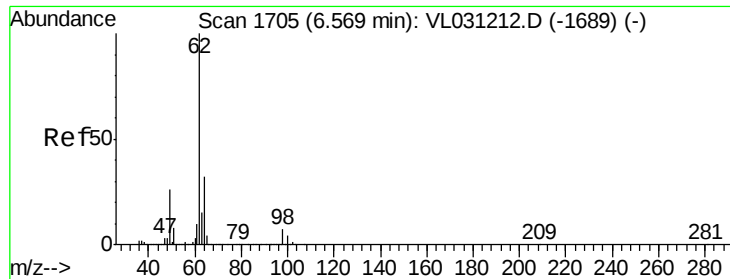
63 24.1 19.8 29.8

88 17.6 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

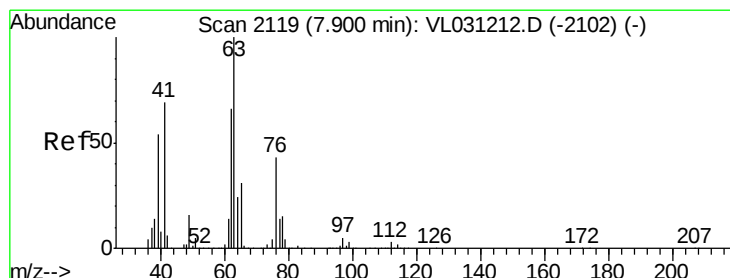
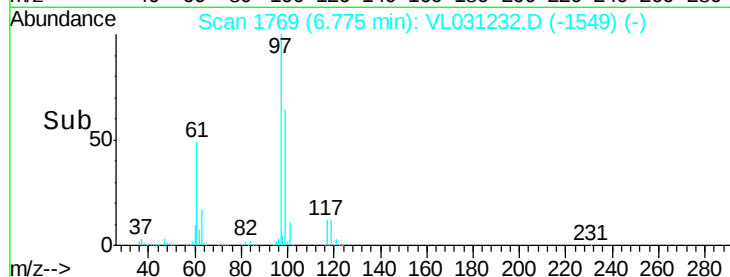
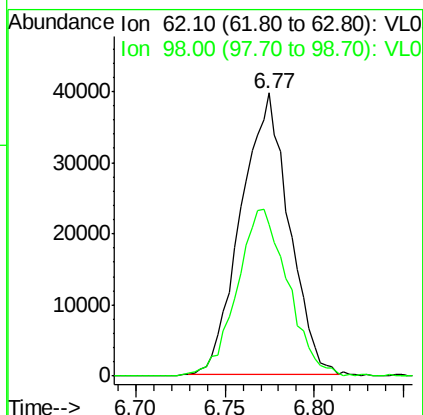
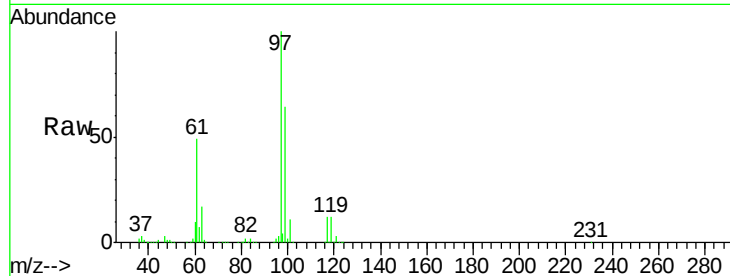




#37
 1,2-Dichloroethane
 Concen: 0.321 ppbv
 RT: 6.77 min Scan# 1769
 Delta R.T. 0.21 min
 Lab File: VL031232.D
 Acq: 14 Dec 2017 15:10

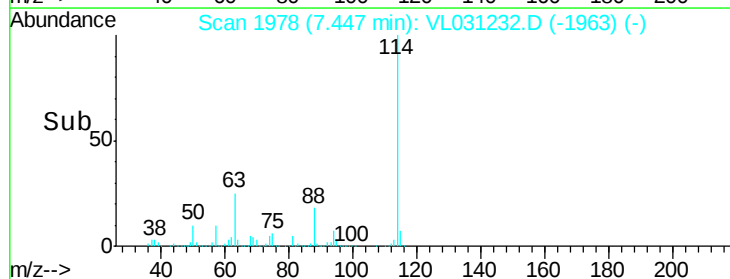
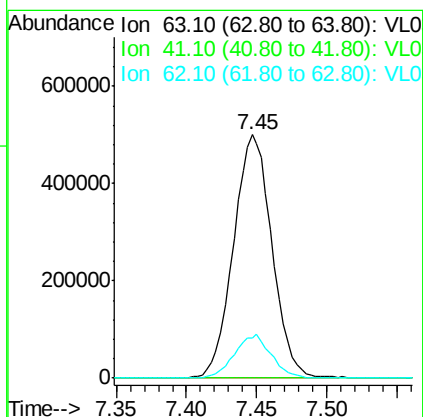
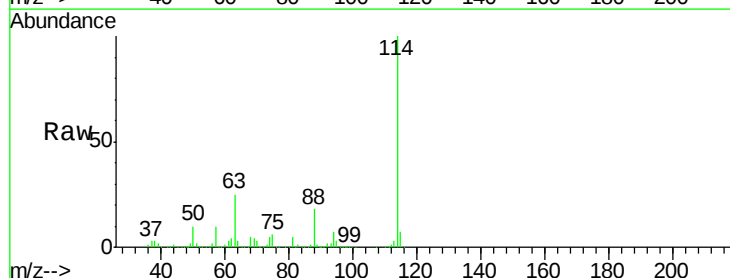
Instrument :
 MSVOA_L
 ClientSampled :

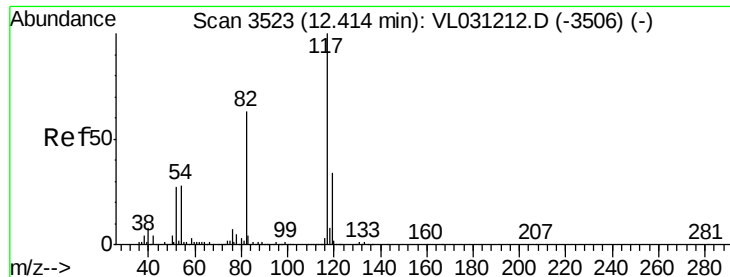
Tot Ion: 62 Resp: 74599
 Ion Ratio Lower Upper
 62 100
 98 63.0 5.4 8.2#



#39
 1,2-Dichloropropane
 Concen: 6.400 ppbv
 RT: 7.45 min Scan# 1978
 Delta R.T. -0.45 min
 Lab File: VL031232.D
 Acq: 14 Dec 2017 15:10

Tgt Ion: 63 Resp: 952364
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.2 82.8#
 62 16.5 53.0 79.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.41 min Scan# 3522

Delta R.T. -0.00 min

Lab File: VL031232.D

Acq: 14 Dec 2017 15:10

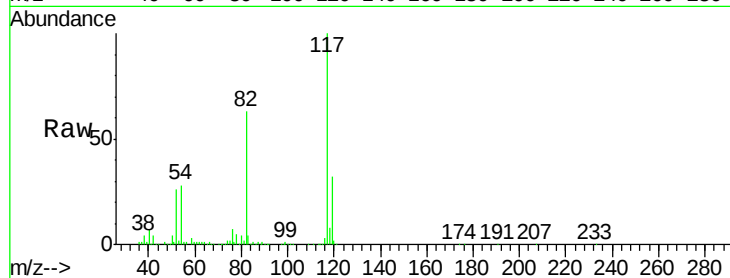
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:117 Resp: 4041501

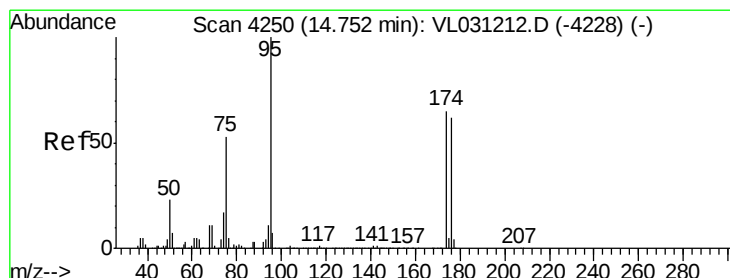
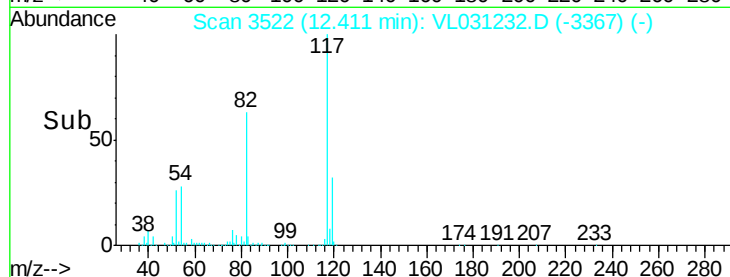
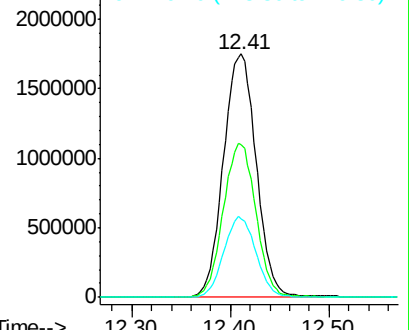
Ion	Ratio	Lower	Upper
117	100		
82	63.2	48.1	72.1
119	32.8	23.1	34.7



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



#68

1-Bromo-4-Fluorobenzene

Concen: 10.990 ppbv

RT: 14.75 min Scan# 4249

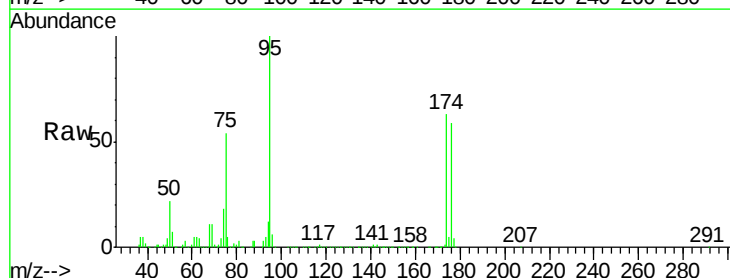
Delta R.T. -0.00 min

Lab File: VL031232.D

Acq: 14 Dec 2017 15:10

Tgt Ion: 95 Resp: 3159429

Ion	Ratio	Lower	Upper
95	100		
174	63.8	52.5	78.7
175	4.8	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

