

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL062918\
 Data File : VL032166.D
 Acq On : 30 Jun 2018 11:51
 Operator : SY/AP
 Sample : J3601-05DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-B-INDOORDL

Quant Time: Jul 02 00:50:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1691570	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4209281	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3836832	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	3138921	10.70	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.00%

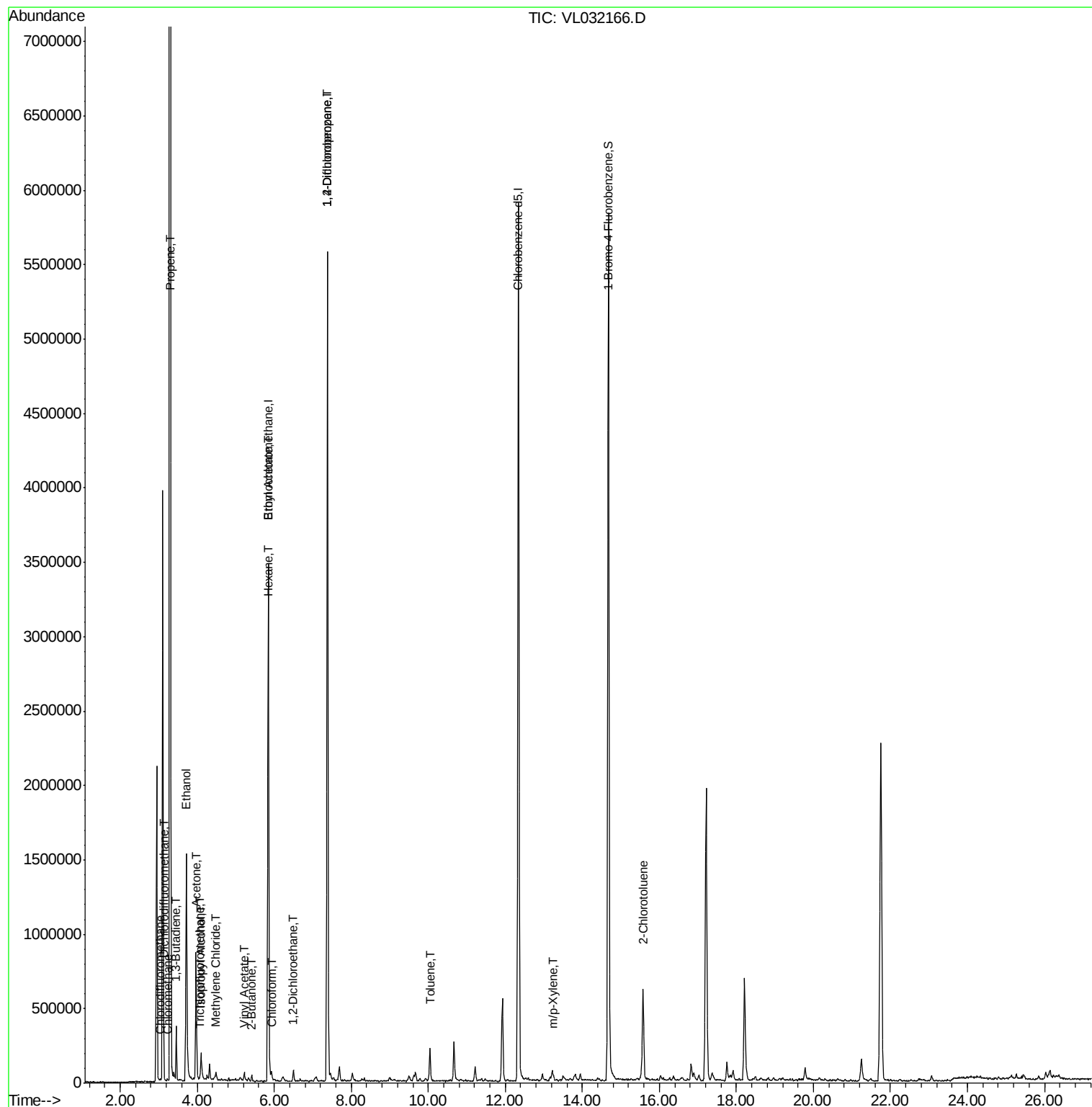
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.13	85	13415	0.060	ppbv	99
3) Chlorodifluoromethane	3.04	51	17960	0.087	ppbv #	83
4) Chloromethane	3.23	50	9590	0.087	ppbv	96
9) Propene	3.30	41	6773607	70.316	ppbv	95
11) Trichlorofluoromethane	4.07	101	11522	0.048	ppbv	97
13) Ethanol	3.71	45	1777410	60.865	ppbv	98
15) Acetone	3.97	43	846302	4.279	ppbv	99
16) 1,3-Butadiene	3.46	39	43541	0.461	ppbv #	4
19) Isopropyl Alcohol	4.10	45	192076	1.169	ppbv #	1
20) Methylene Chloride	4.48	84	16487	0.228	ppbv #	88
23) Vinyl Acetate	5.23	43	27516	0.077	ppbv #	52
25) Ethyl Acetate	5.86	43	116100	0.284	ppbv #	88
26) Hexane	5.86	57	17250	0.092	ppbv #	1
29) Chloroform	5.93	83	17070	0.062	ppbv	99
34) 2-Butanone	5.42	43	51106	0.191	ppbv	97
37) 1,2-Dichloroethane	6.50	62	56547	0.279	ppbv	99
39) 1,2-Dichloropropane	7.38	63	1091985	6.796	ppbv #	27
53) Toluene	10.04	91	165766	0.337	ppbv	99
59) m/p-Xylene	13.24	91	17233	0.035	ppbv #	29
71) 2-Chlorotoluene	15.58	91	149462	0.255	ppbv #	43

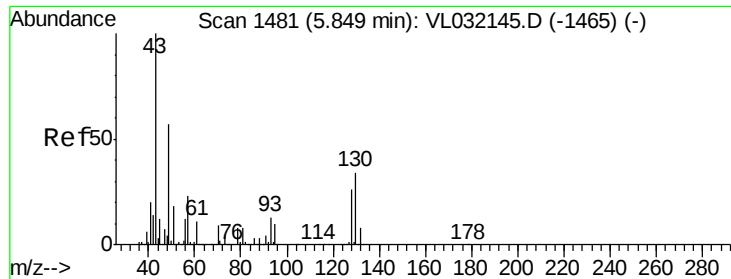
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

Lab File: VL032166.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-B-INDOORDL

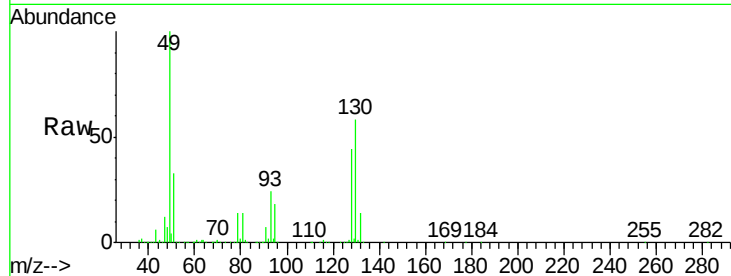
Tgt Ion: 49 Resp: 1691570

Ion Ratio Lower Upper

49 100

128 45.8 23.4 70.0

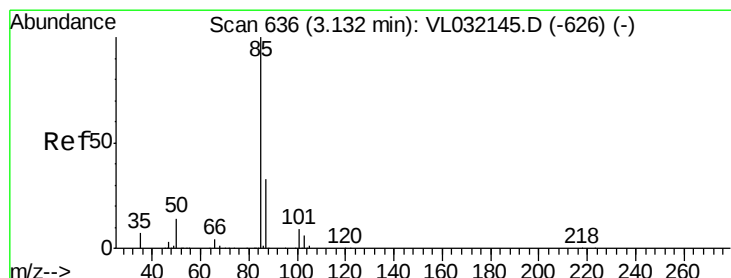
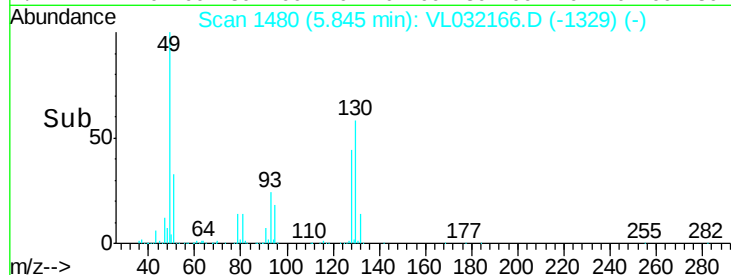
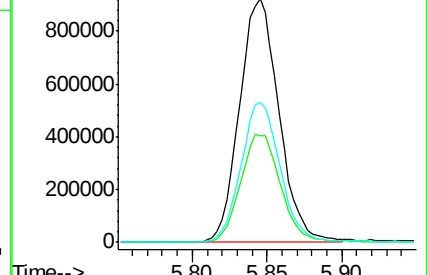
130 57.9 30.3 90.9



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: 0.060 ppbv

RT: 3.13 min Scan# 637

Delta R.T. -0.01 min

Lab File: VL032166.D

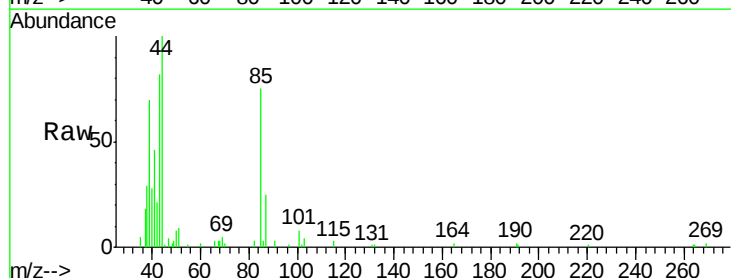
Acq: 30 Jun 2018 11:51

Tgt Ion: 85 Resp: 13415

Ion Ratio Lower Upper

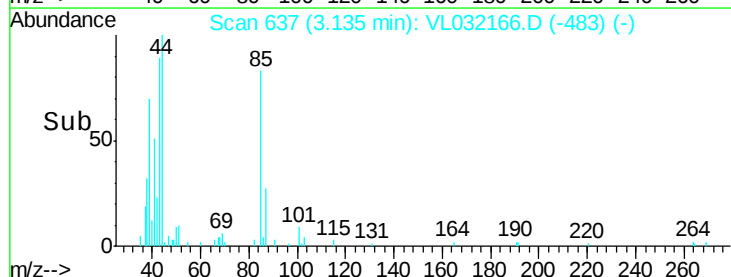
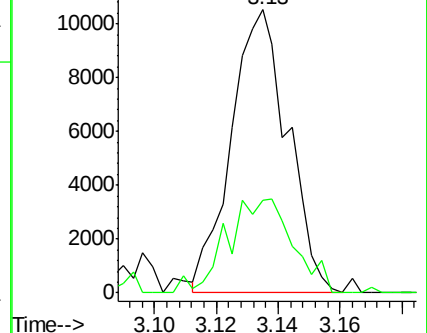
85 100

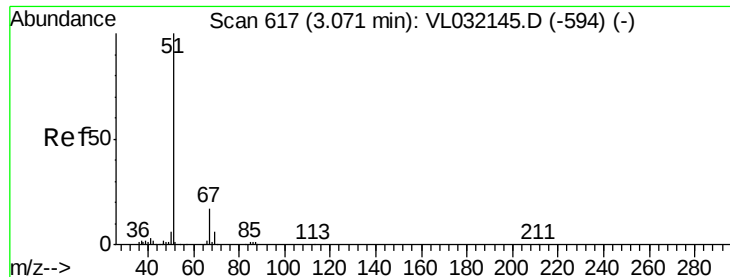
87 32.8 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.087 ppbv

RT: 3.04 min Scan# 607

Delta R.T. -0.04 min

Lab File: VL032166.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_L

ClientSampleId :

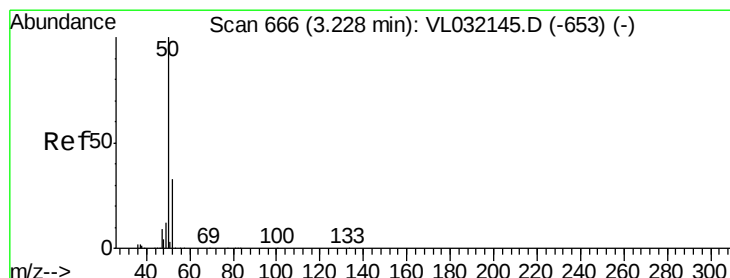
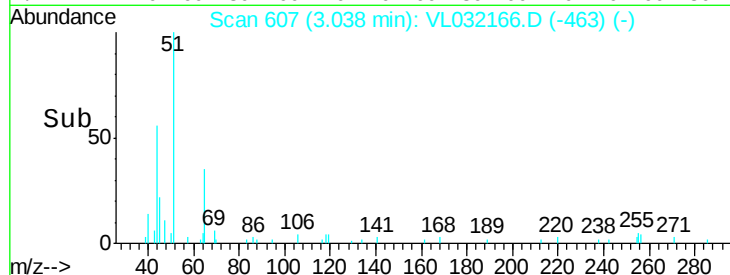
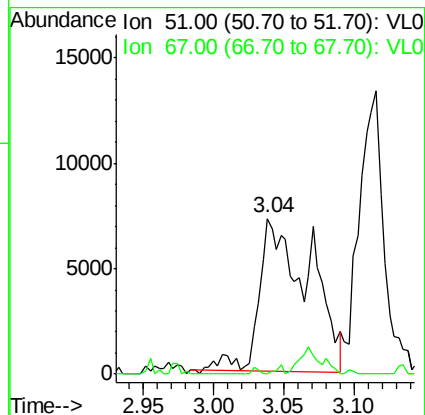
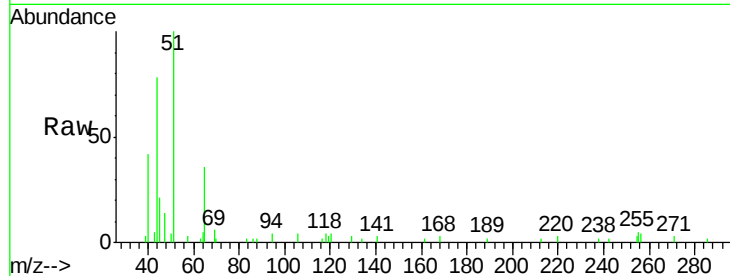
RESIDENT-B-INDOORDL

Tgt Ion: 51 Resp: 17960

Ion Ratio Lower Upper

51 100

67 9.2 13.2 19.8#



#4

Chloromethane

Concen: 0.087 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032166.D

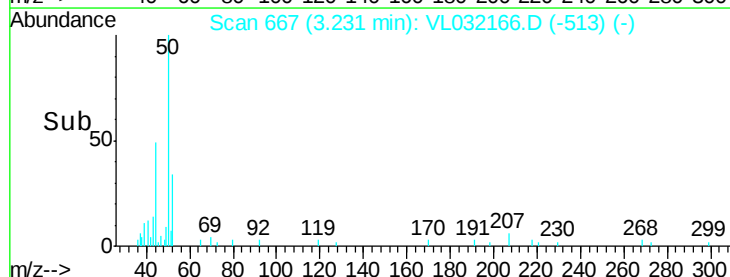
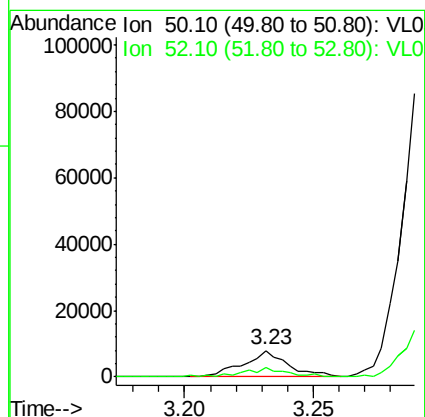
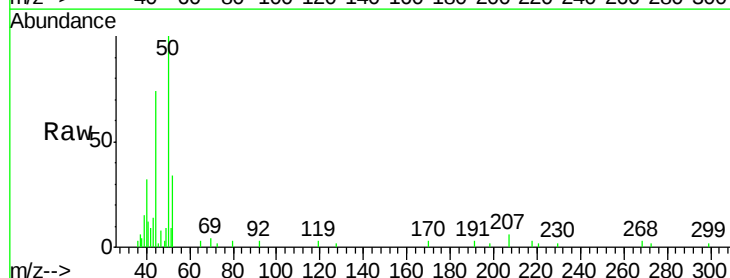
Acq: 30 Jun 2018 11:51

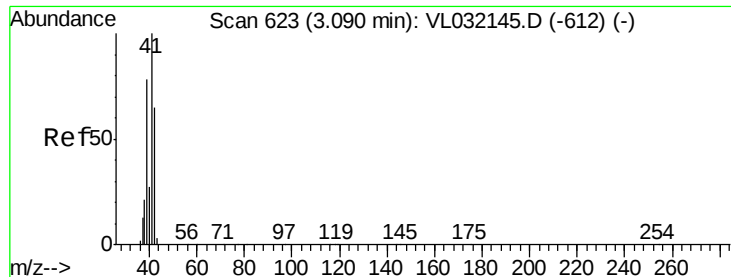
Tgt Ion: 50 Resp: 9590

Ion Ratio Lower Upper

50 100

52 30.3 26.0 39.0





#9

Propene

Concen: 70.316 ppbv

RT: 3.30 min Scan# 687

Delta R.T. 0.20 min

Lab File: VL032166.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_L

ClientSampleId :

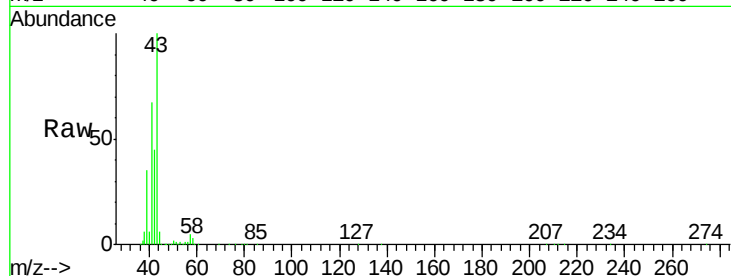
RESIDENT-B-INDOORDL

Tgt Ion: 41 Resp: 6773607

Ion Ratio Lower Upper

41 100

42 66.0 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.30

4000000

3000000

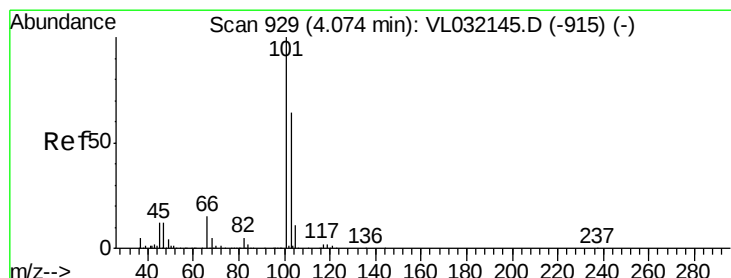
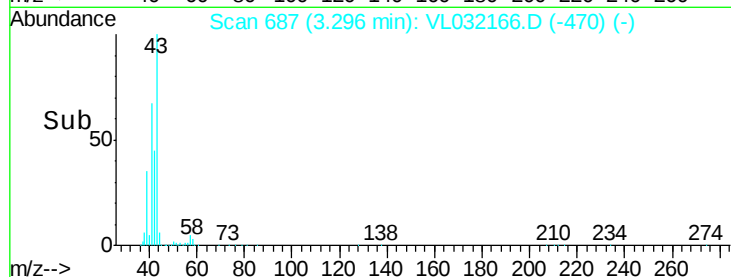
2000000

1000000

0

Time-->

3.25 3.30 3.35



#11

Trichlorofluoromethane

Concen: 0.048 ppbv

RT: 4.07 min Scan# 928

Delta R.T. -0.01 min

Lab File: VL032166.D

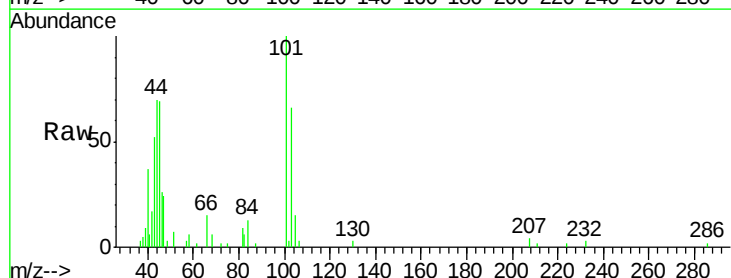
Acq: 30 Jun 2018 11:51

Tgt Ion: 101 Resp: 11522

Ion Ratio Lower Upper

101 100

103 66.4 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.07

10000

8000

6000

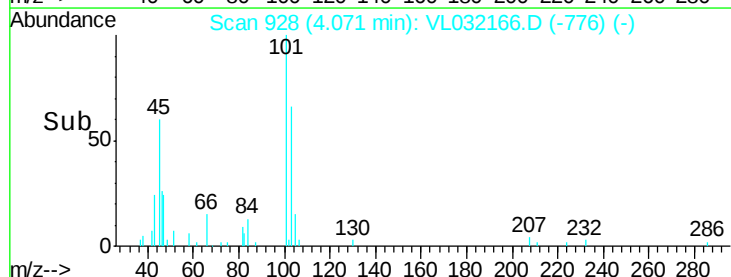
4000

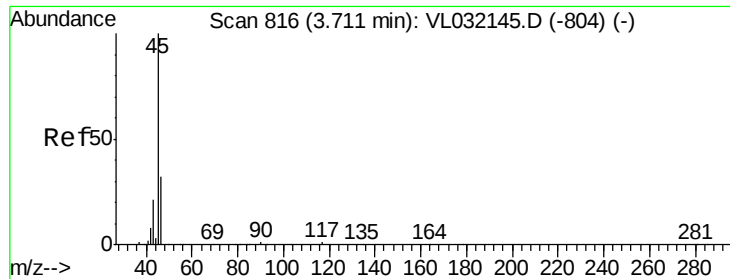
2000

0

Time-->

4.05 4.10





#13

Ethanol

Concen: 60.865 ppbv

RT: 3.71 min Scan# 817

Delta R.T. -0.01 min

Lab File: VL032166.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_L

ClientSampleId :

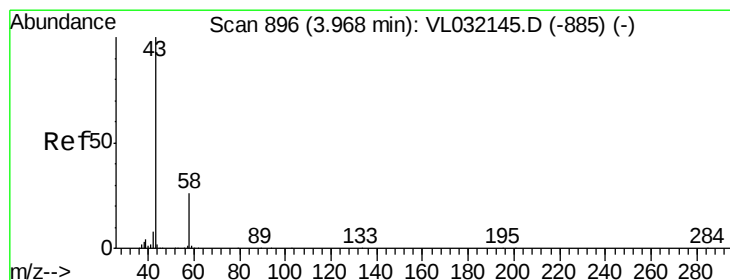
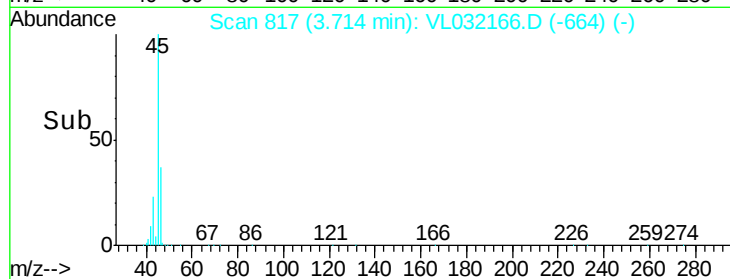
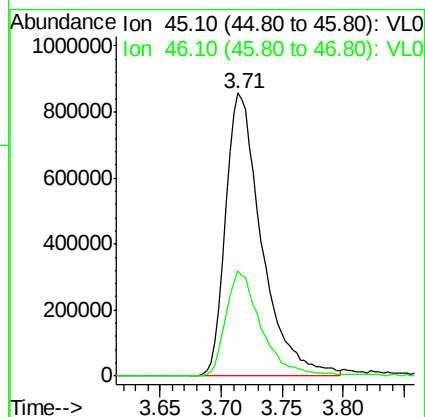
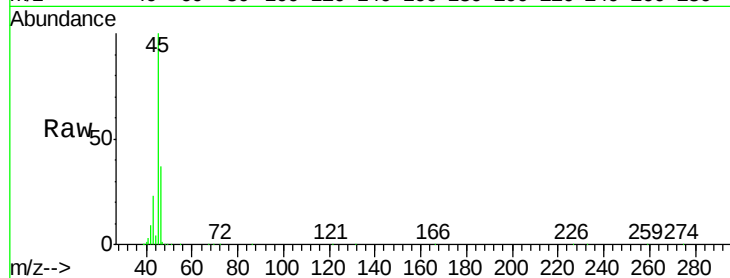
RESIDENT-B-INDOORDL

Tgt Ion: 45 Resp: 1777410

Ion Ratio Lower Upper

45 100

46 37.4 14.6 58.4



#15

Acetone

Concen: 4.279 ppbv

RT: 3.97 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL032166.D

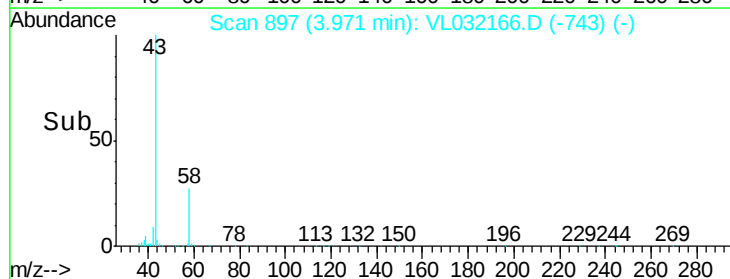
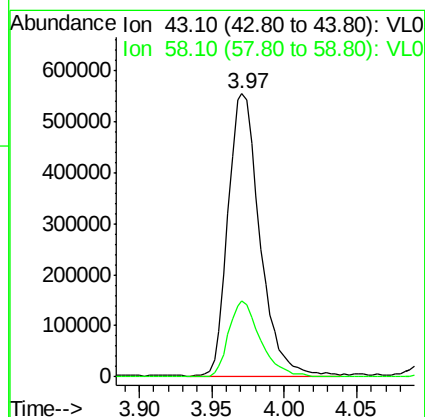
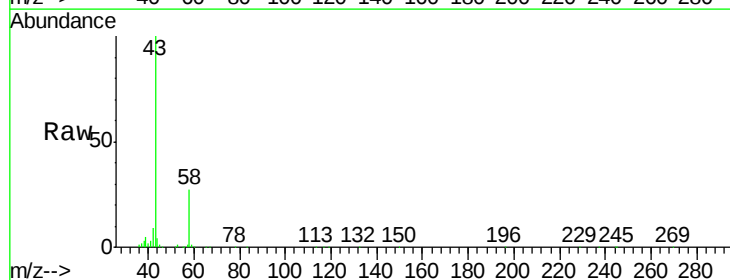
Acq: 30 Jun 2018 11:51

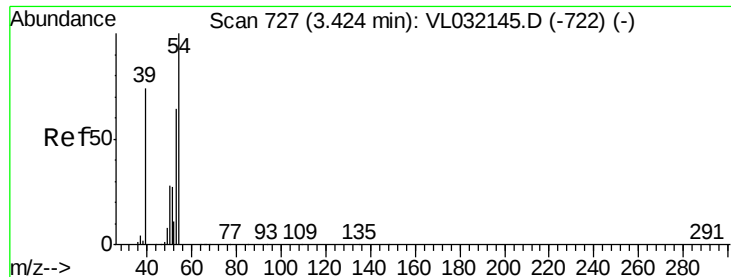
Tgt Ion: 43 Resp: 846302

Ion Ratio Lower Upper

43 100

58 27.3 21.4 32.0

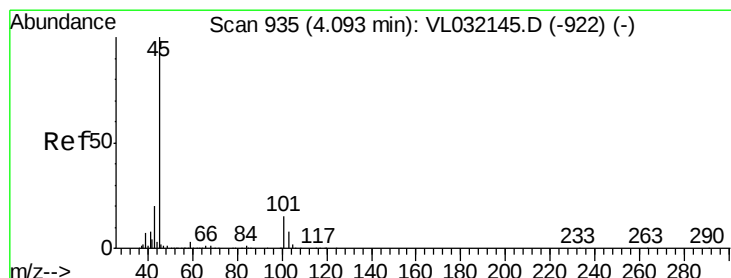
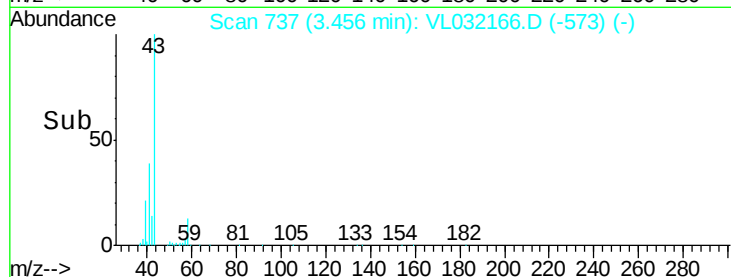
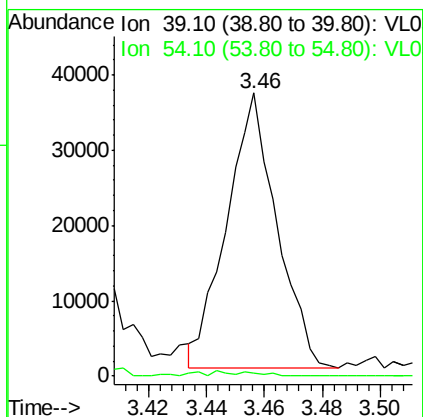
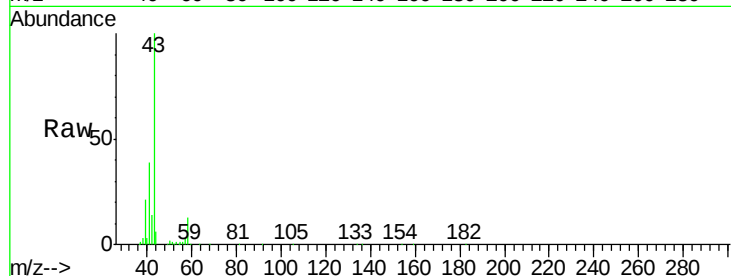




#16
 1,3-Butadiene
 Concen: 0.461 ppbv
 RT: 3.46 min Scan# 737
 Delta R.T. 0.03 min
 Lab File: VL032166.D
 Acq: 30 Jun 2018 11:51

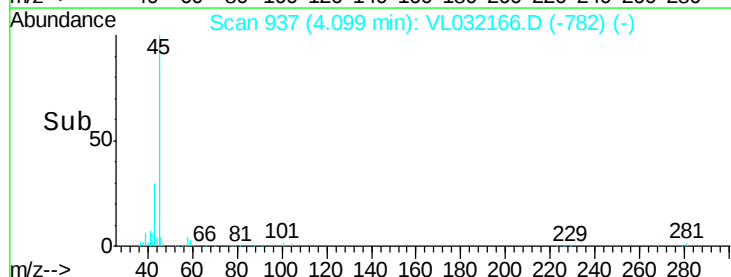
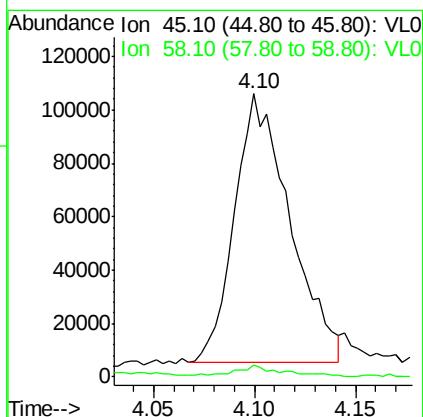
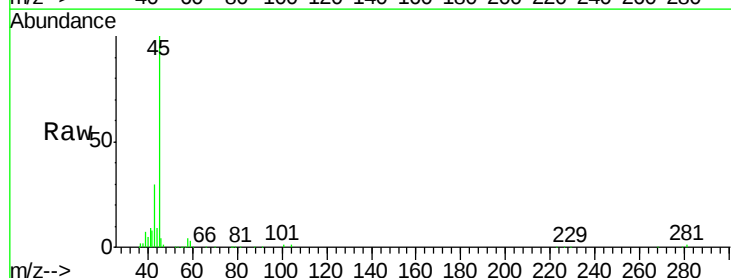
Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-B-INDOORDL

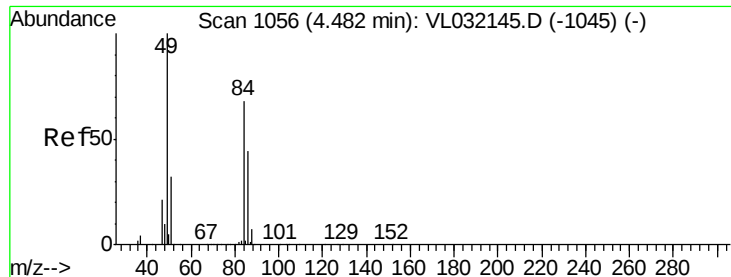
Tgt Ion: 39 Resp: 43541
 Ion Ratio Lower Upper
 39 100
 54 2.0 75.8 113.6#



#19
 Isopropyl Alcohol
 Concen: 1.169 ppbv
 RT: 4.10 min Scan# 937
 Delta R.T. -0.00 min
 Lab File: VL032166.D
 Acq: 30 Jun 2018 11:51

Tgt Ion: 45 Resp: 192076
 Ion Ratio Lower Upper
 45 100
 58 119.8 29.4 44.0#

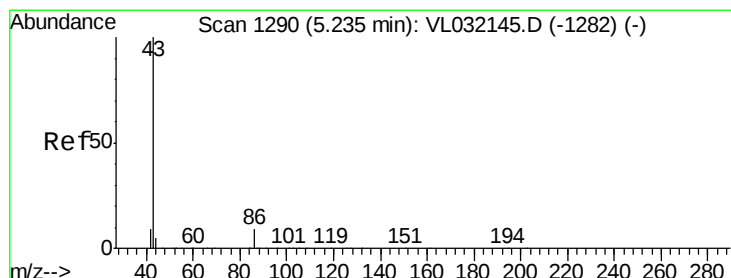
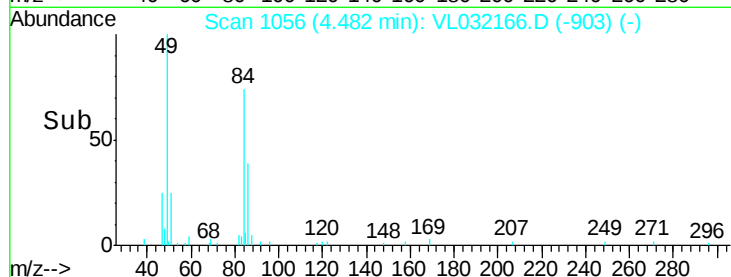
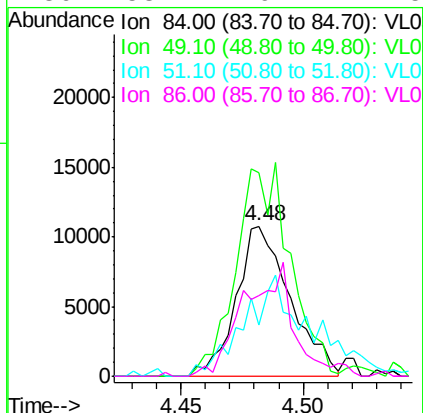
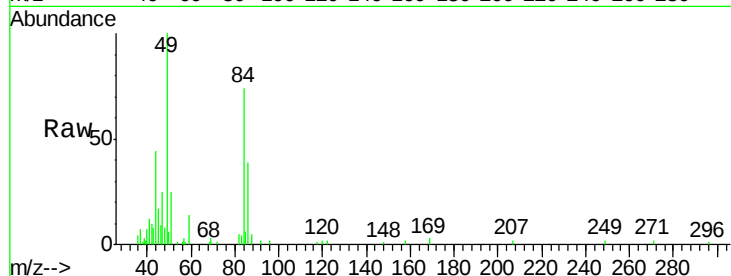




#20
Methylene Chloride
Concen: 0.228 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032166.D
Acq: 30 Jun 2018 11:51

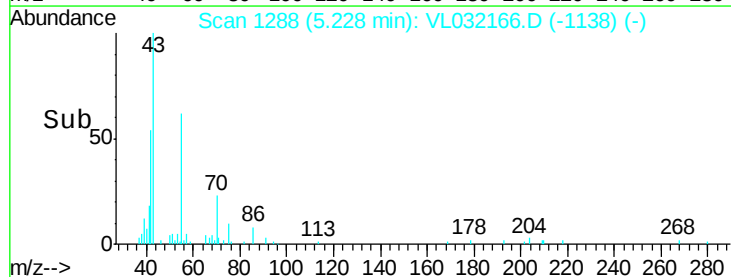
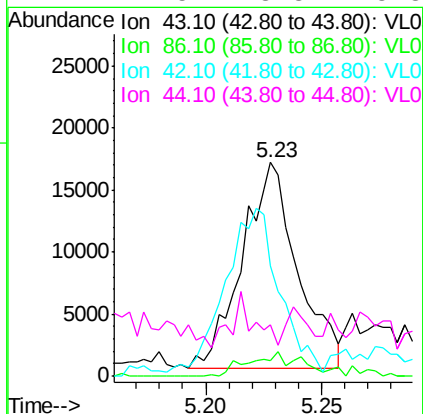
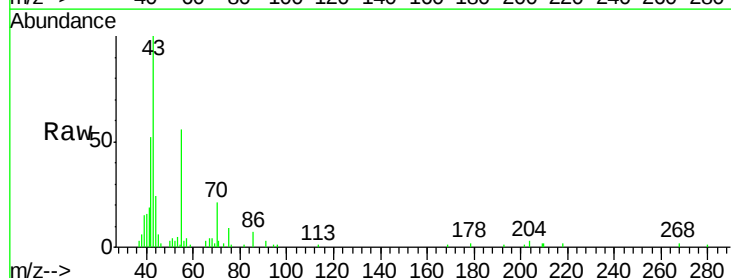
Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-B-INDOORDL

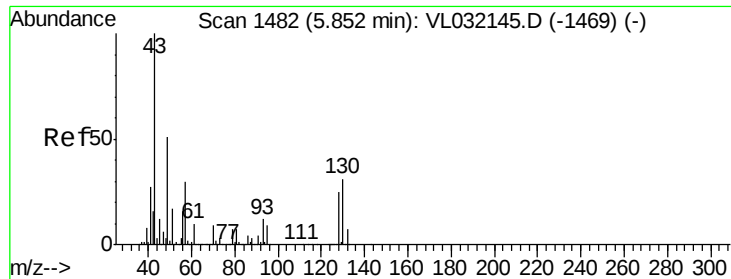
Tgt Ion:	84	Resp:	16487
Ion	Ratio	Lower	Upper
84	100		
49	135.8	119.6	179.4
51	34.5	36.3	54.5#
86	53.4	49.7	74.5



#23
Vinyl Acetate
Concen: 0.077 ppbv
RT: 5.23 min Scan# 1288
Delta R.T. -0.02 min
Lab File: VL032166.D
Acq: 30 Jun 2018 11:51

Tgt Ion:	43	Resp:	27516
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.2	9.4
42	49.3	6.9	10.3#
44	2.5	3.8	5.8#





#25

Ethyl Acetate

Concen: 0.284 ppbv

RT: 5.86 min Scan# 1483

Delta R.T. -0.01 min

Lab File: VL032166.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-B-INDOORDL

Tgt Ion: 43 Resp: 116100

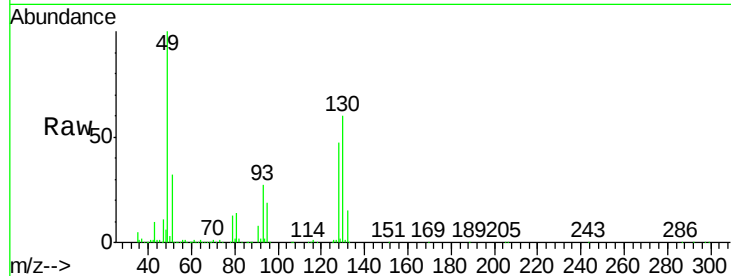
Ion Ratio Lower Upper

43 100

45 15.8 7.8 11.8#

61 13.3 7.4 11.0#

70 10.2 6.1 9.1#

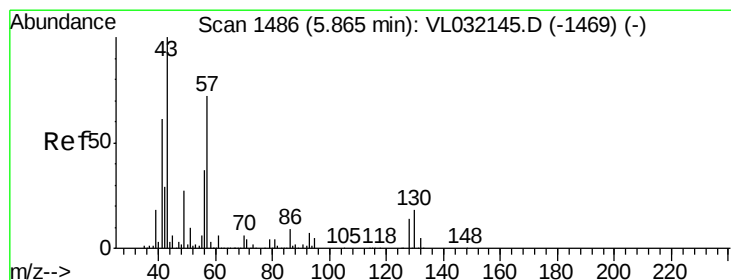
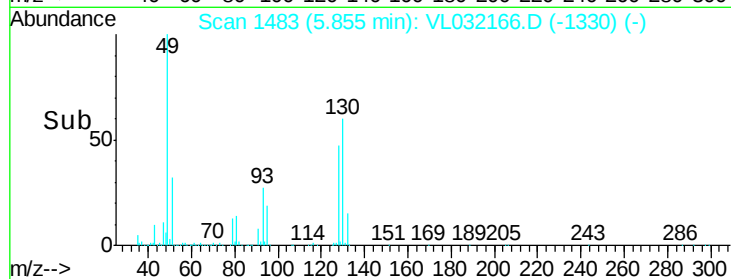
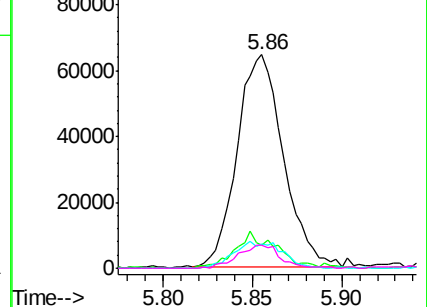


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.092 ppbv

RT: 5.86 min Scan# 1485

Delta R.T. -0.02 min

Lab File: VL032166.D

Acq: 30 Jun 2018 11:51

Tgt Ion: 57 Resp: 17250

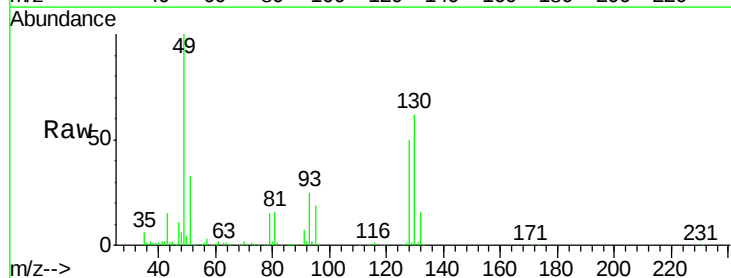
Ion Ratio Lower Upper

57 100

41 103.4 68.6 103.0#

43 704.6 168.6 252.8#

56 61.2 41.0 61.6

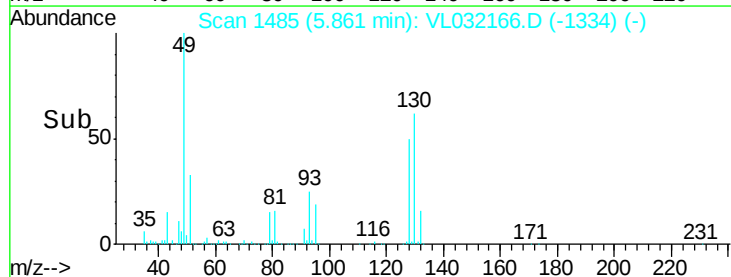
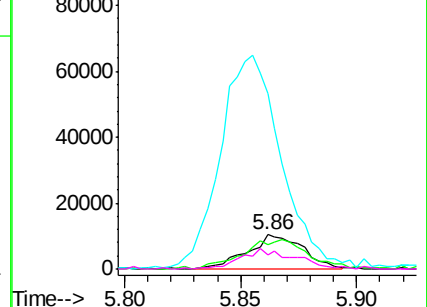


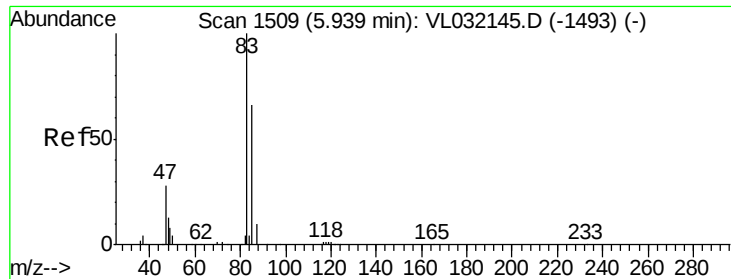
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#29

Chloroform

Concen: 0.062 ppbv

RT: 5.93 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VL032166.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_L

ClientSampleId :

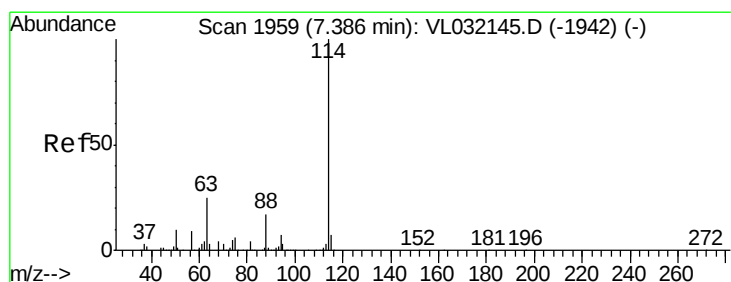
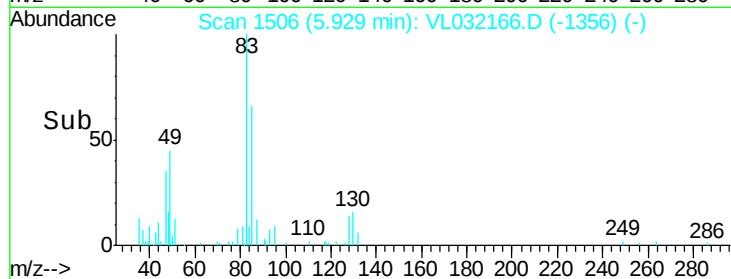
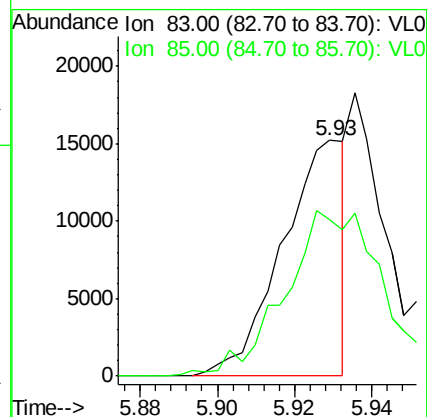
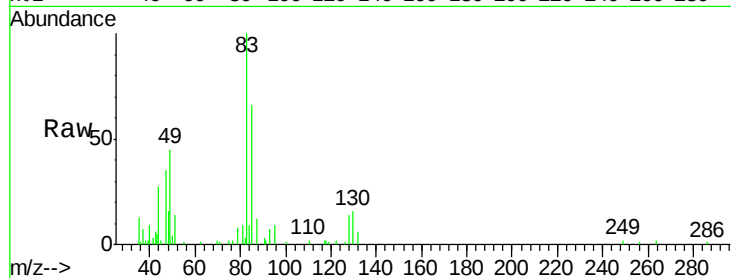
RESIDENT-B-INDOORDL

Tgt Ion: 83 Resp: 17070

Ion Ratio Lower Upper

83 100

85 63.7 51.6 77.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.38 min Scan# 1958

Delta R.T. -0.02 min

Lab File: VL032166.D

Acq: 30 Jun 2018 11:51

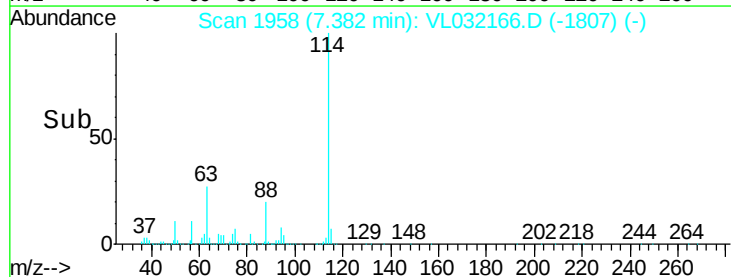
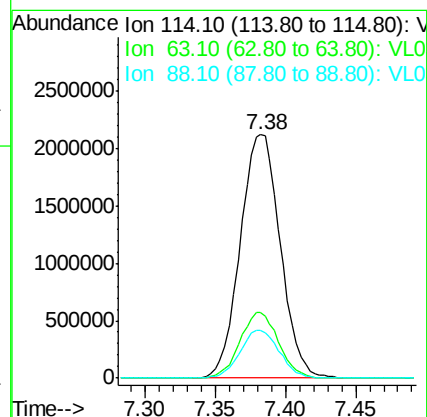
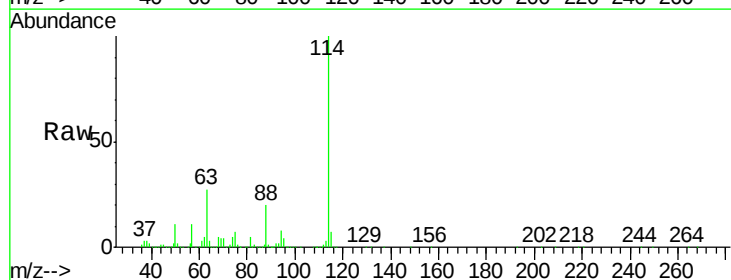
Tgt Ion: 114 Resp: 4209281

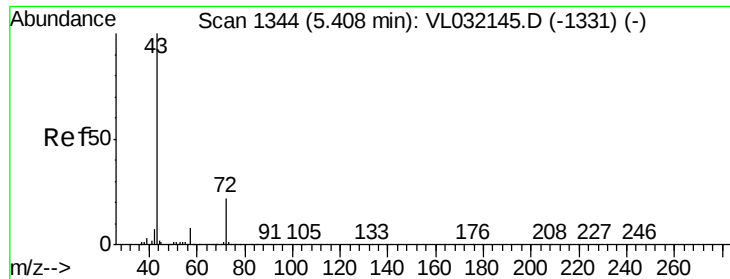
Ion Ratio Lower Upper

114 100

63 26.3 19.1 28.7

88 19.3 13.9 20.9

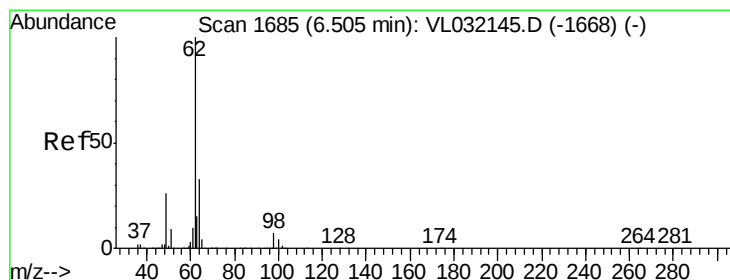
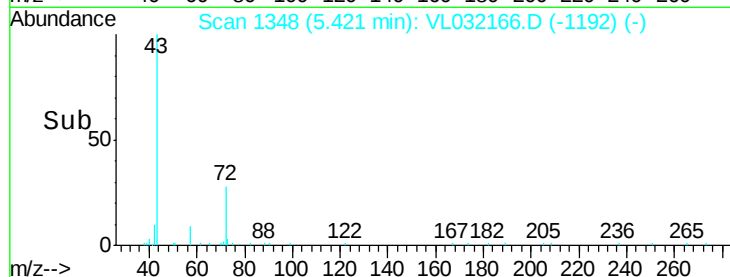
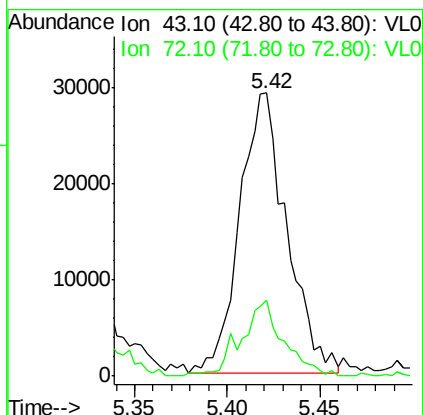
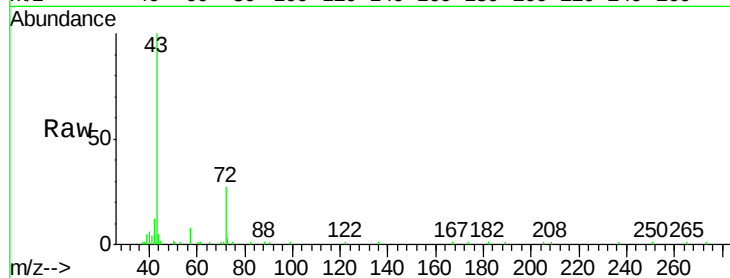




#34
 2-Butanone
 Concen: 0.191 ppbv
 RT: 5.42 min Scan# 1348
 Delta R.T. 0.00 min
 Lab File: VL032166.D
 Acq: 30 Jun 2018 11:51

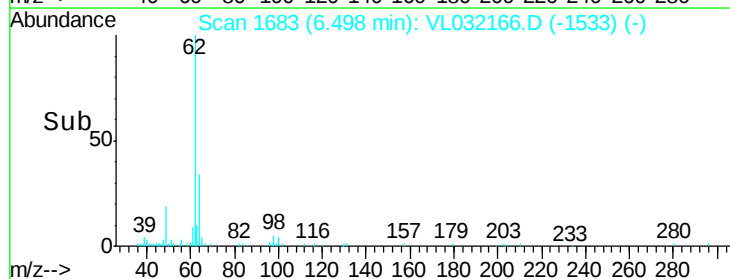
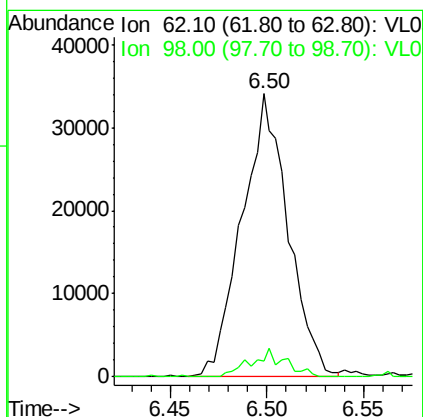
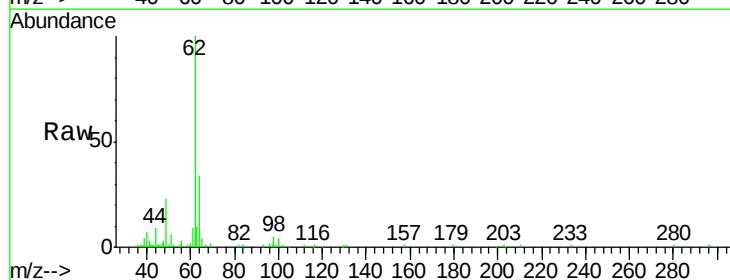
Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-B-INDOORDL

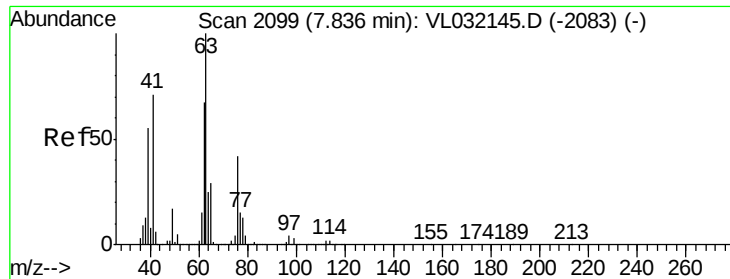
Tgt Ion: 43 Resp: 51106
 Ion Ratio Lower Upper
 43 100
 72 24.5 18.4 27.6



#37
 1,2-Dichloroethane
 Concen: 0.279 ppbv
 RT: 6.50 min Scan# 1683
 Delta R.T. -0.02 min
 Lab File: VL032166.D
 Acq: 30 Jun 2018 11:51

Tgt Ion: 62 Resp: 56547
 Ion Ratio Lower Upper
 62 100
 98 7.4 5.8 8.6





#39

1,2-Dichloropropane

Concen: 6.796 ppbv

RT: 7.38 min Scan# 1958

Delta R.T. -0.47 min

Lab File: VL032166.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-B-INDOORDL

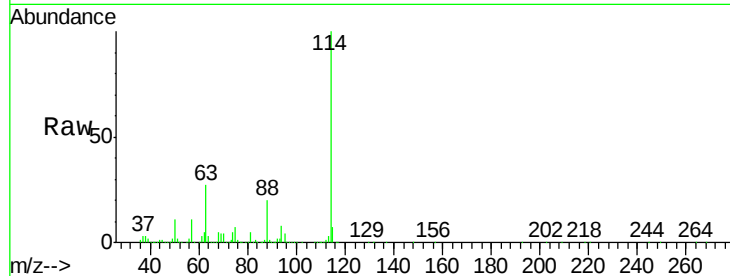
Tgt Ion: 63 Resp: 1091985

Ion Ratio Lower Upper

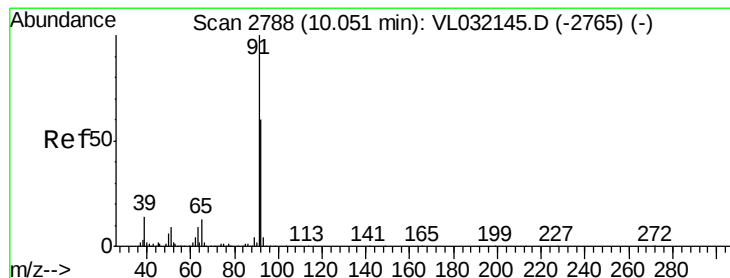
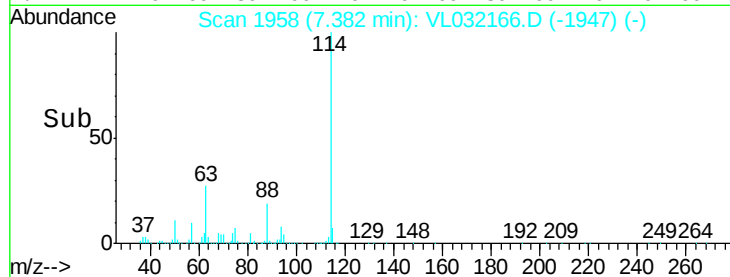
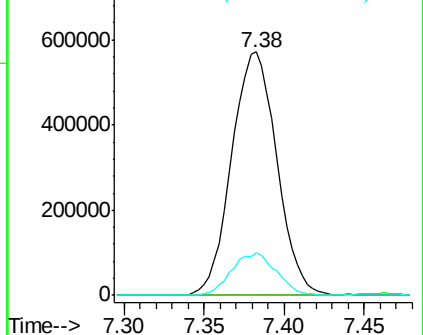
63 100

41 0.0 53.3 79.9#

62 17.3 54.8 82.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.337 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032166.D

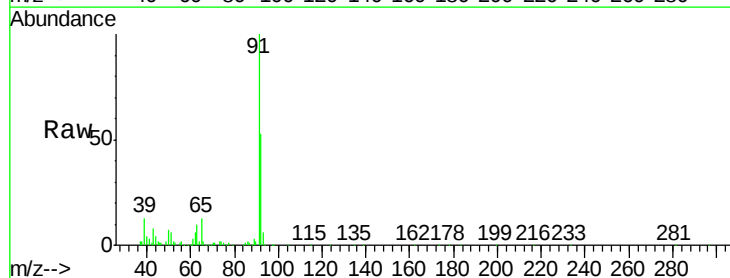
Acq: 30 Jun 2018 11:51

Tgt Ion: 91 Resp: 165766

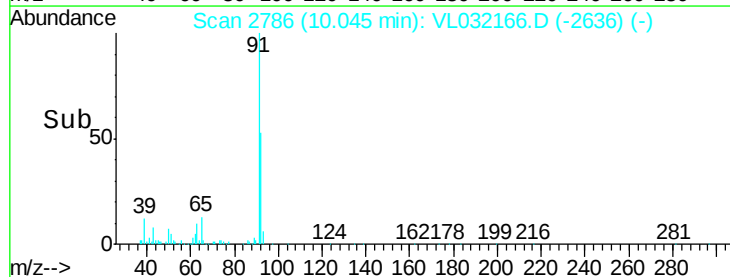
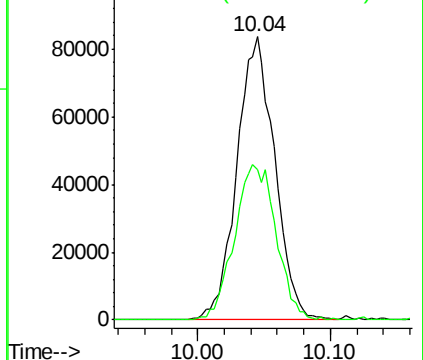
Ion Ratio Lower Upper

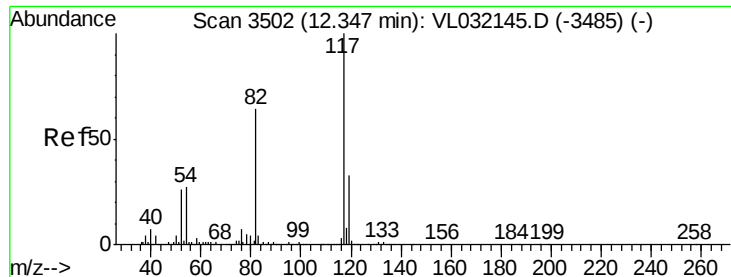
91 100

92 60.6 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: 10.000 ppbv

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032166.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-B-INDOORDL

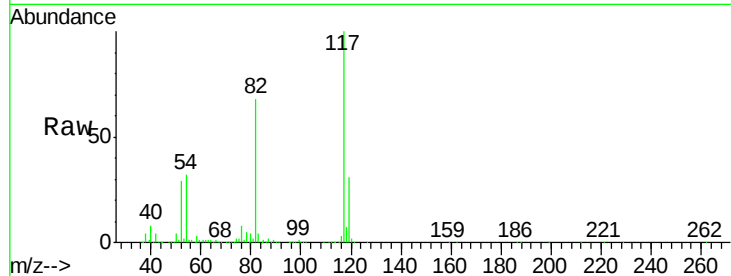
Tgt Ion: 117 Resp: 3836832

Ion Ratio Lower Upper

117 100

82 69.2 47.8 71.8

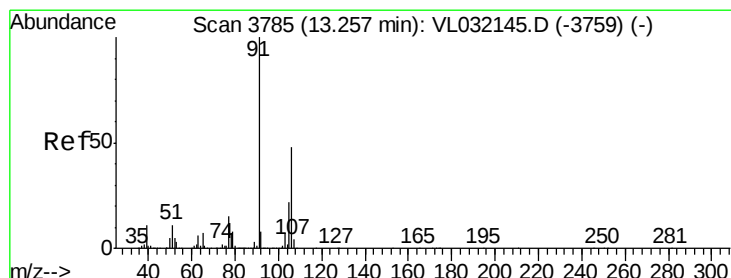
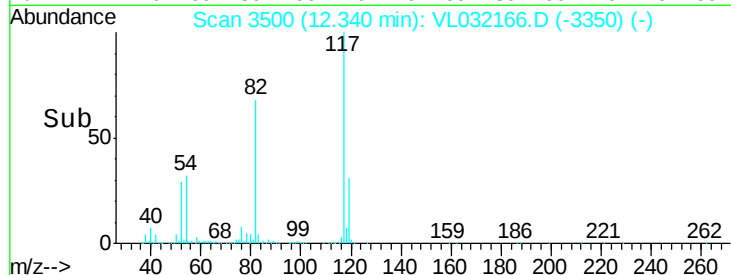
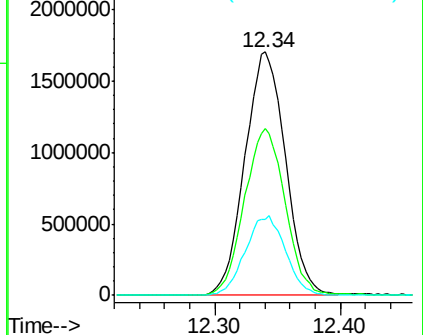
119 32.7 43.3 64.9#



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



#59

m/p-Xylene

Concen: 0.035 ppbv

RT: 13.24 min Scan# 3781

Delta R.T. -0.03 min

Lab File: VL032166.D

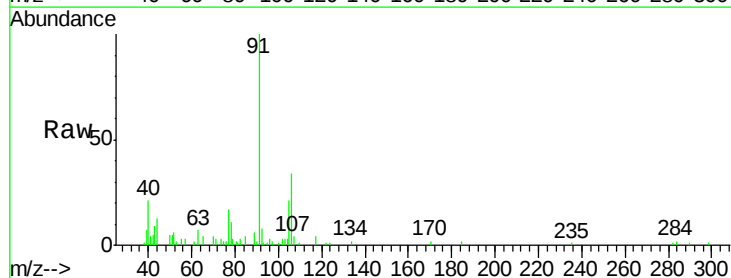
Acq: 30 Jun 2018 11:51

Tgt Ion: 91 Resp: 17233

Ion Ratio Lower Upper

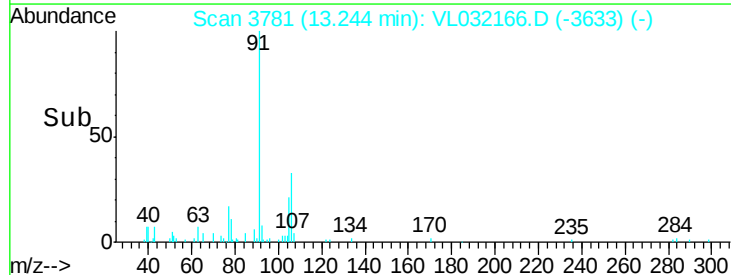
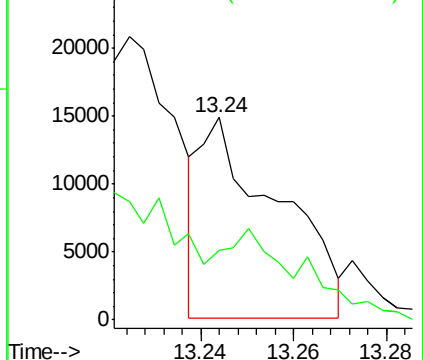
91 100

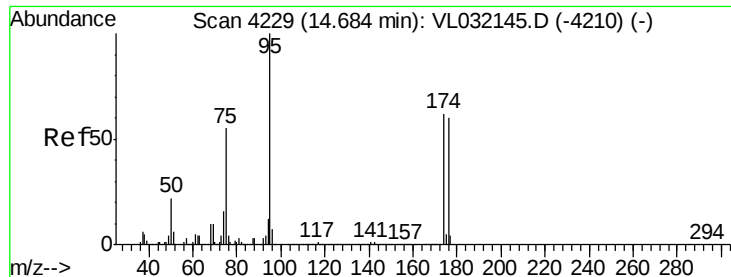
106 0.0 38.6 58.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.703 ppbv

RT: 14.68 min Scan# 4227

Delta R.T. -0.02 min

Lab File: VL032166.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-B-INDOORDL

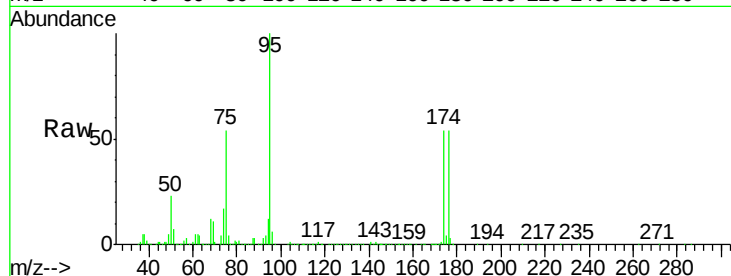
Tgt Ion: 95 Resp: 3138921

Ion Ratio Lower Upper

95 100

174 57.0 52.1 78.1

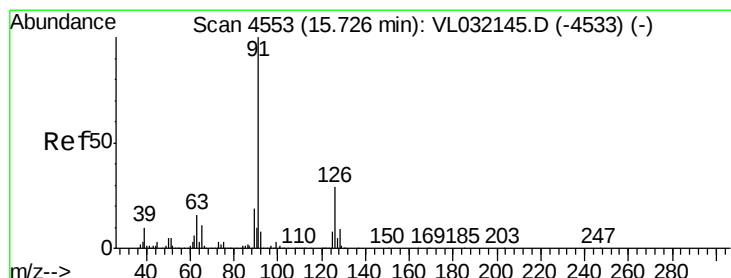
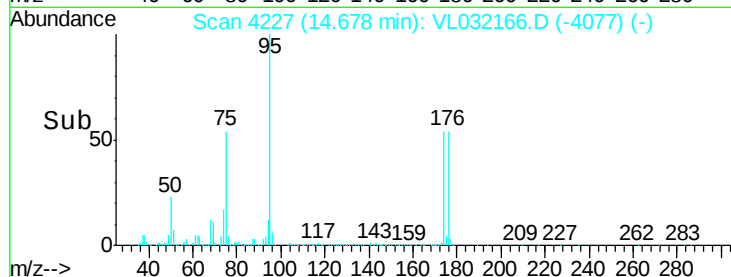
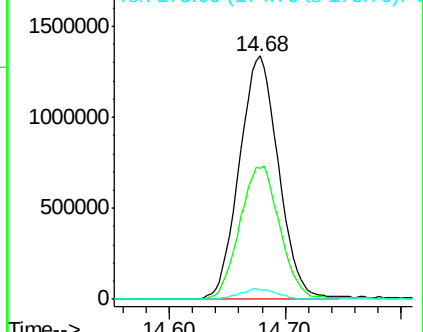
175 4.2 4.0 6.0



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



#71

2-Chlorotoluene

Concen: 0.255 ppbv

RT: 15.58 min Scan# 4507

Delta R.T. -0.16 min

Lab File: VL032166.D

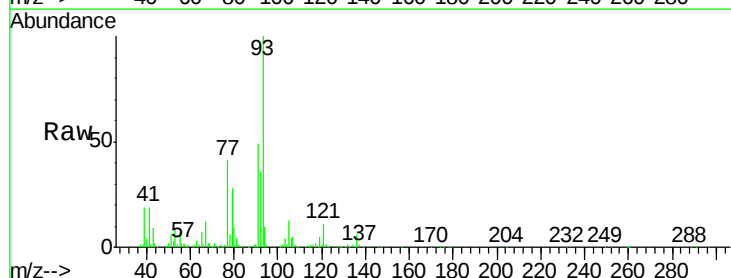
Acq: 30 Jun 2018 11:51

Tgt Ion: 91 Resp: 149462

Ion Ratio Lower Upper

91 100

126 0.1 12.8 51.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

