

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092418\
 Data File : VL032527.D
 Acq On : 25 Sep 2018 2:58
 Operator : SY/AP
 Sample : J5039-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIRDL

Quant Time: Sep 25 05:35:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 05:17:15 2018
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1470565	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3450118	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3404470	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2625870	10.23	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

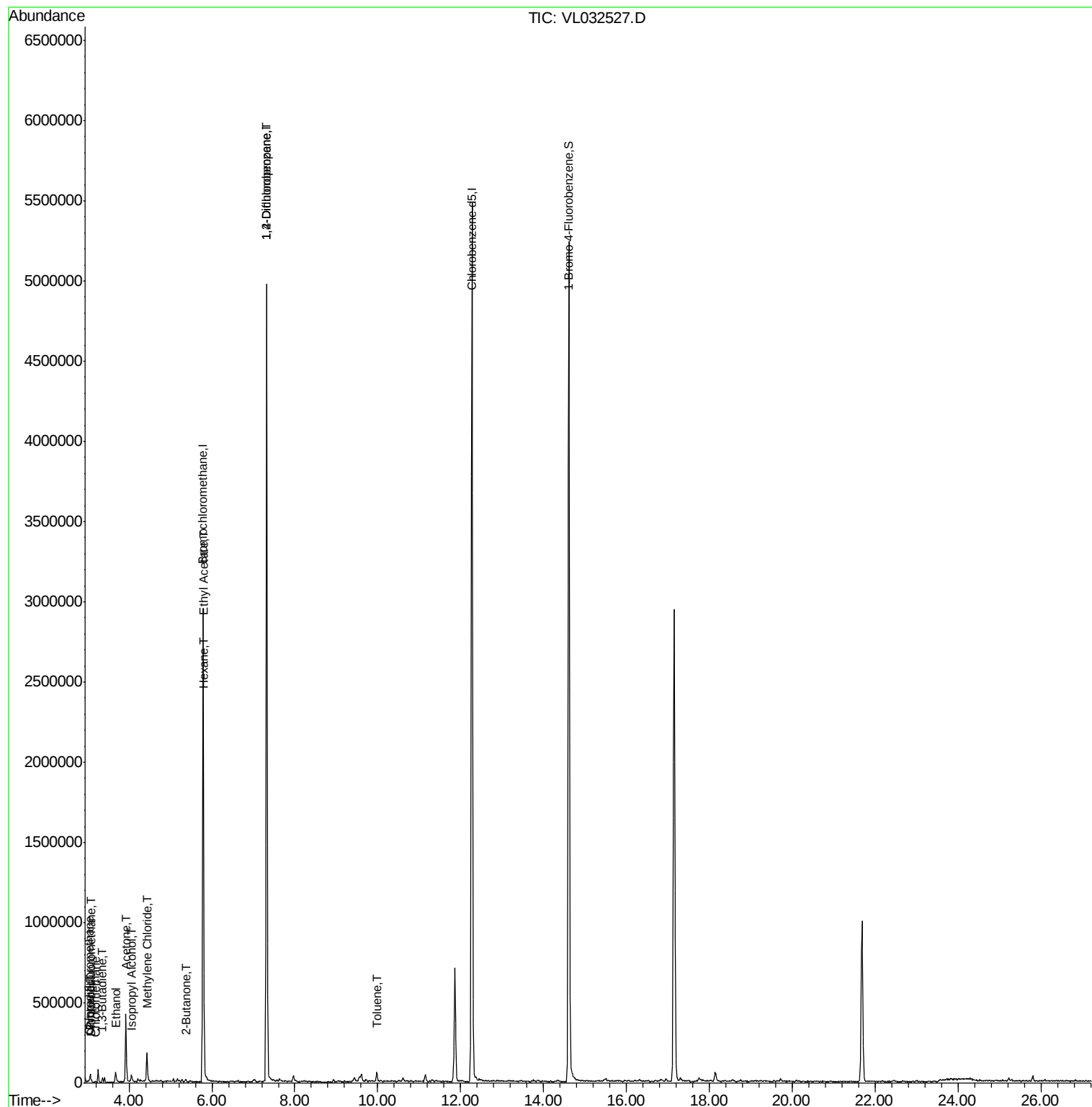
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	3.09	85	7344	0.054	ppbv #	79
3) Chlorodifluoromethane	3.03	51	10732	0.088	ppbv #	79
4) Chloromethane	3.18	50	3241	0.045	ppbv #	86
9) Propene	3.07	41	10534	0.199	ppbv #	82
13) Ethanol	3.68	45	66085	4.144	ppbv	94
15) Acetone	3.92	43	403319	3.124	ppbv	99
16) 1,3-Butadiene	3.36	39	7728	0.148	ppbv #	5
19) Isopropyl Alcohol	4.06	45	42558	0.473	ppbv #	93
20) Methylene Chloride	4.43	84	55989	0.896	ppbv	96
25) Ethyl Acetate	5.80	43	44569	0.142	ppbv #	88
26) Hexane	5.80	57	51514	0.364	ppbv #	47
34) 2-Butanone	5.37	43	18282	0.089	ppbv	95
39) 1,2-Dichloropropane	7.32	63	946092	7.530	ppbv #	26
53) Toluene	9.97	91	18557	0.055	ppbv #	17

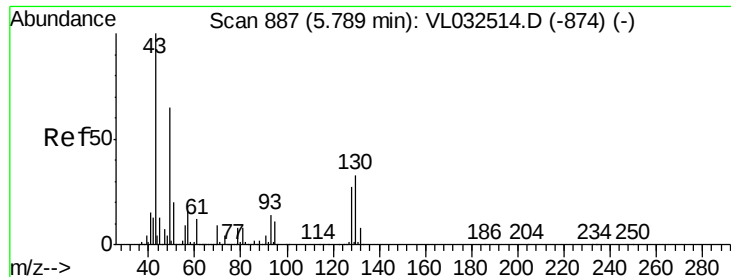
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032527.D

Acq: 25 Sep 2018 2:58

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIRDL

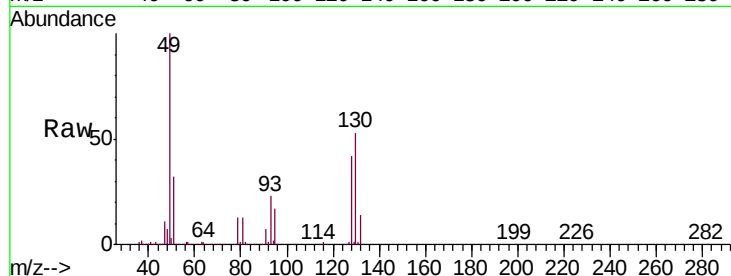
Tgt Ion: 49 Resp: 1470565

Ion Ratio Lower Upper

49 100

128 42.9 20.7 62.1

130 54.4 26.6 79.7



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

5.79

800000

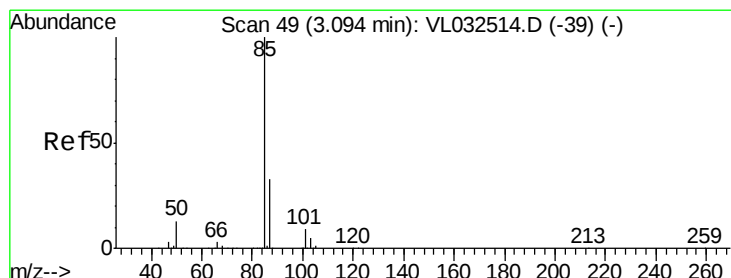
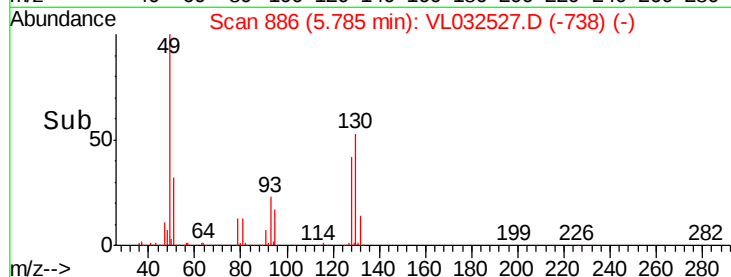
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.054 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032527.D

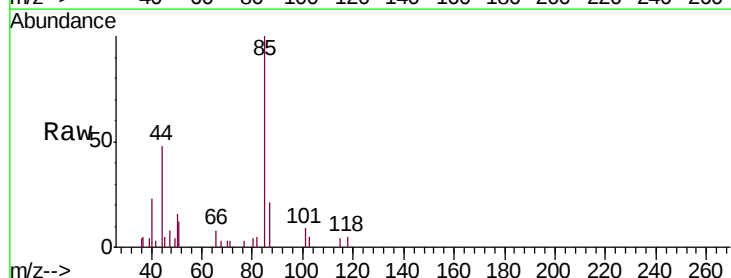
Acq: 25 Sep 2018 2:58

Tgt Ion: 85 Resp: 7344

Ion Ratio Lower Upper

85 100

87 20.8 26.2 39.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.09

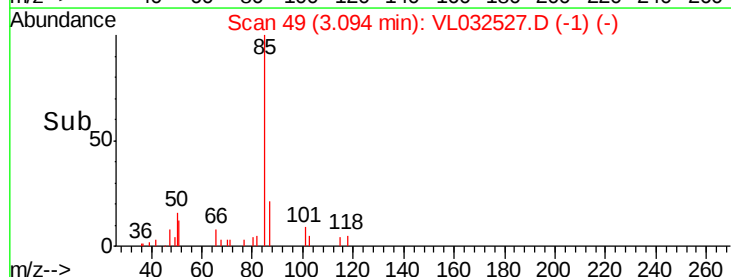
6000

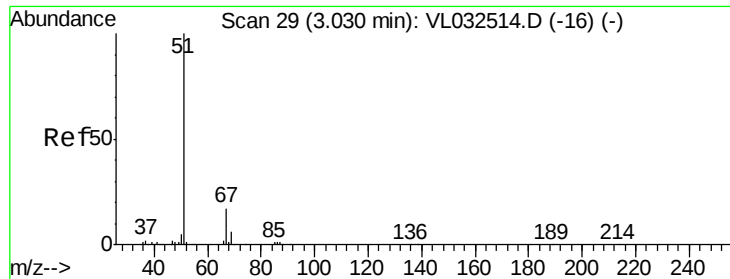
4000

2000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.088 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032527.D

Acq: 25 Sep 2018 2:58

Instrument :

MSVOA_L

ClientSampleId :

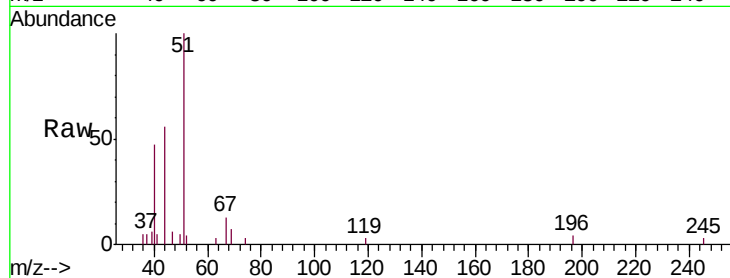
INDOOR-AIRDL

Tgt Ion: 51 Resp: 10732

Ion Ratio Lower Upper

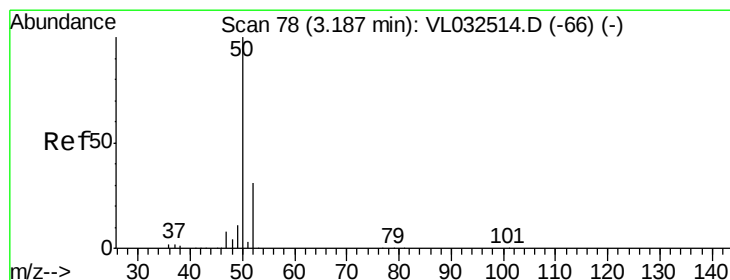
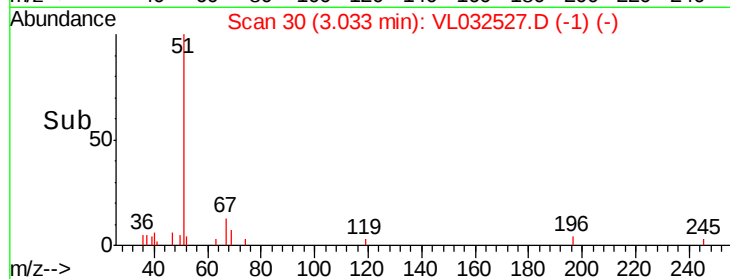
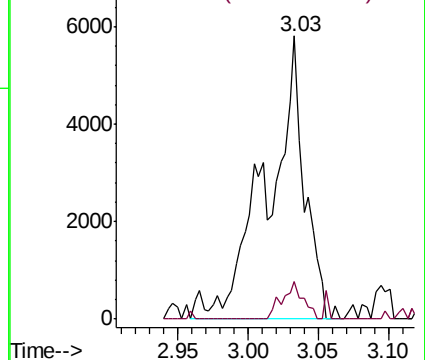
51 100

67 8.3 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.045 ppbv

RT: 3.18 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL032527.D

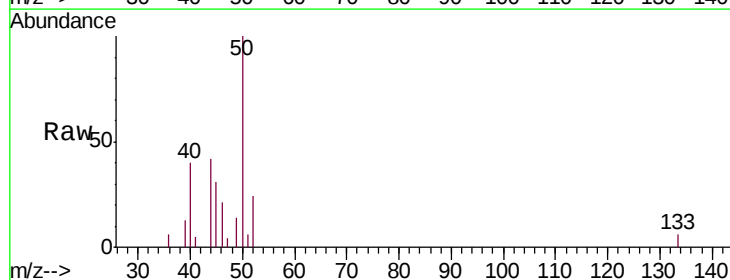
Acq: 25 Sep 2018 2:58

Tgt Ion: 50 Resp: 3241

Ion Ratio Lower Upper

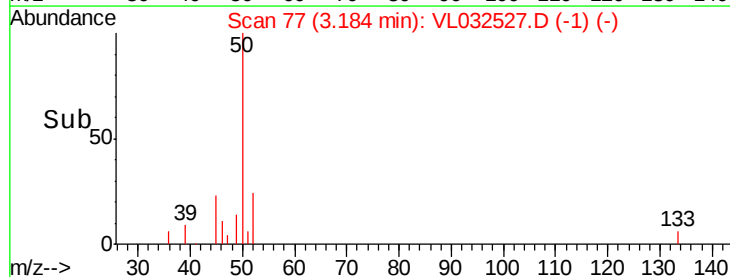
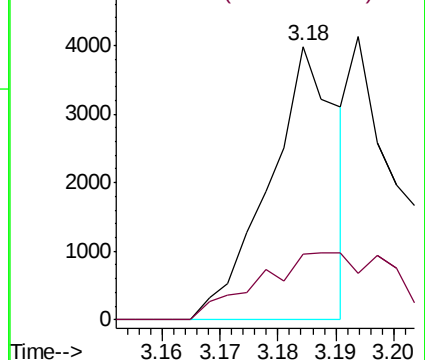
50 100

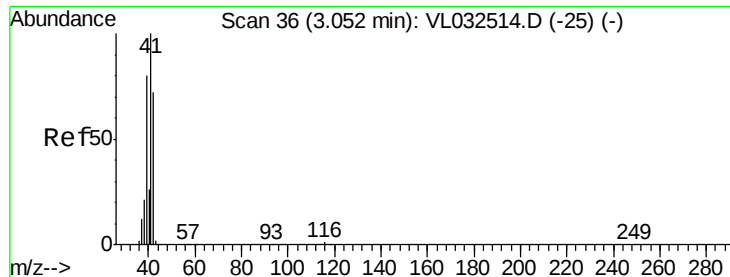
52 24.1 25.6 38.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.199 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL032527.D

Acq: 25 Sep 2018 2:58

Instrument :

MSVOA_L

ClientSampleId :

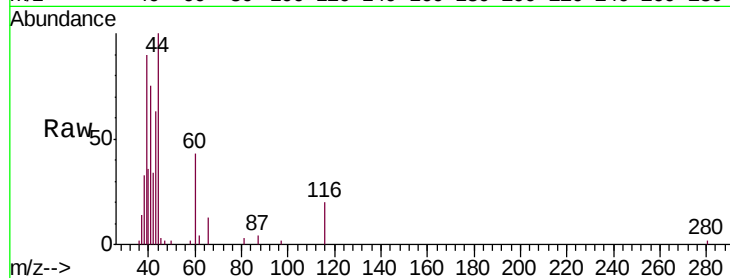
INDOOR-AIRDL

Tgt Ion: 41 Resp: 10534

Ion Ratio Lower Upper

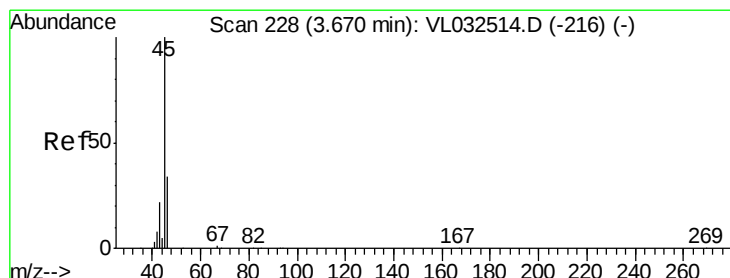
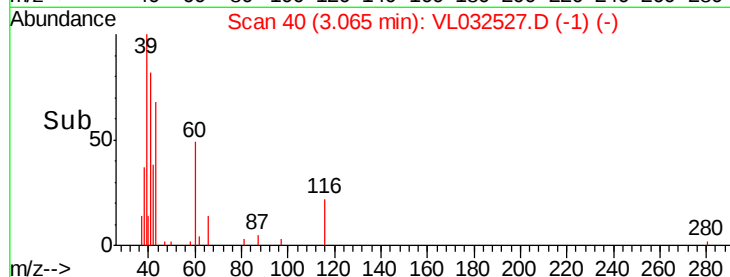
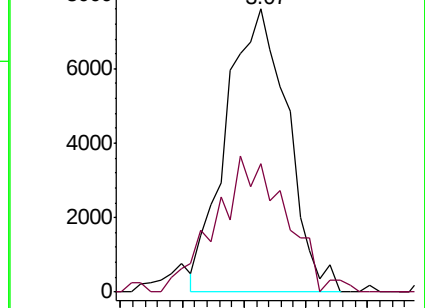
41 100

42 55.5 56.6 84.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 4.144 ppbv

RT: 3.68 min Scan# 230

Delta R.T. -0.01 min

Lab File: VL032527.D

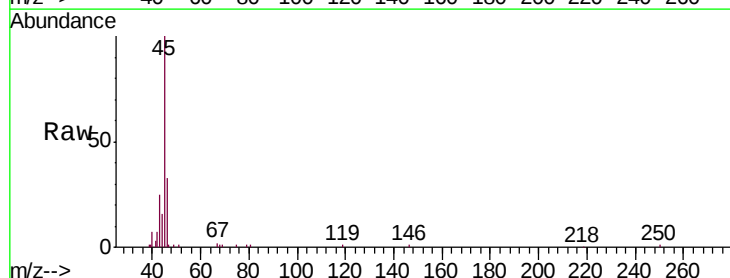
Acq: 25 Sep 2018 2:58

Tgt Ion: 45 Resp: 66085

Ion Ratio Lower Upper

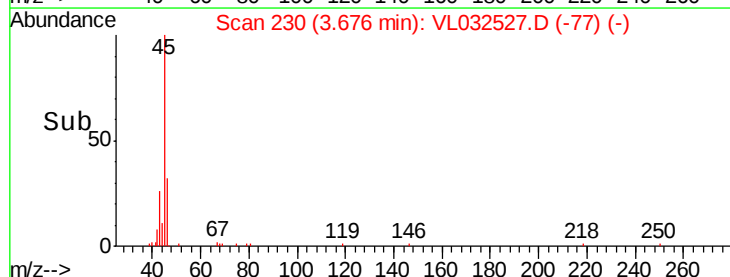
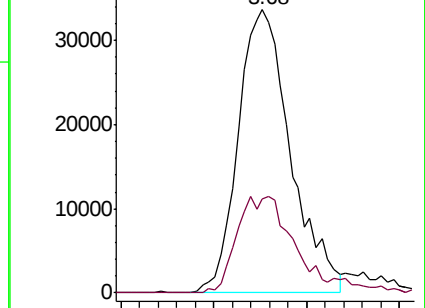
45 100

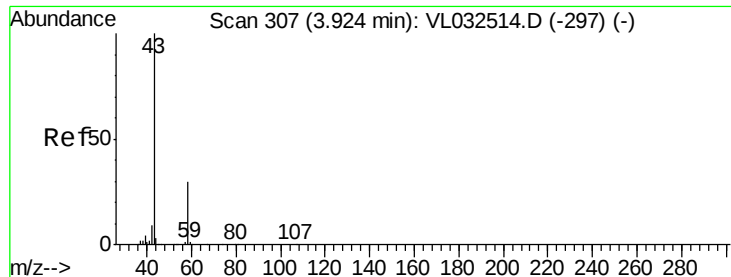
46 39.1 14.2 56.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 3.124 ppbv

RT: 3.92 min Scan# 307

Delta R.T. -0.01 min

Lab File: VL032527.D

Acq: 25 Sep 2018 2:58

Instrument :

MSVOA_L

ClientSampleId :

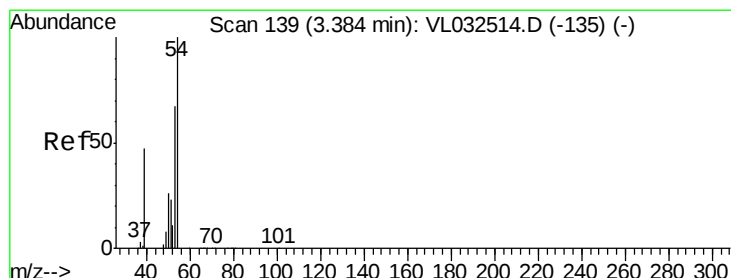
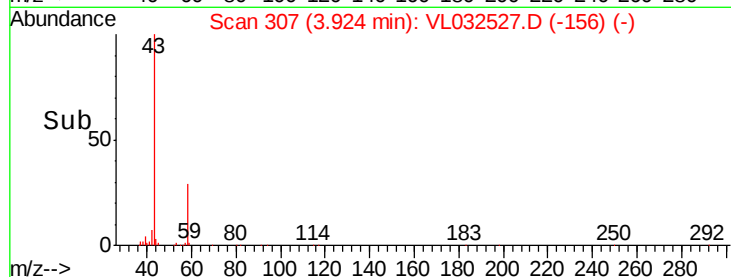
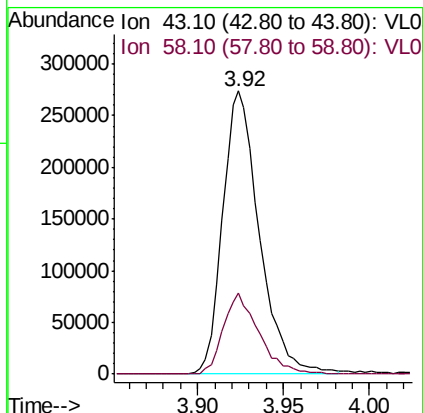
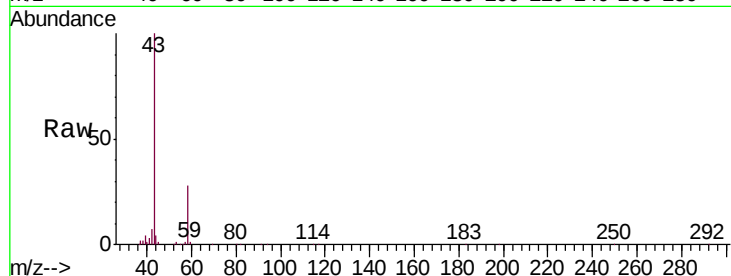
INDOOR-AIRDL

Tgt Ion: 43 Resp: 403319

Ion Ratio Lower Upper

43 100

58 28.6 22.6 33.8



#16

1,3-Butadiene

Concen: 0.148 ppbv

RT: 3.36 min Scan# 131

Delta R.T. -0.04 min

Lab File: VL032527.D

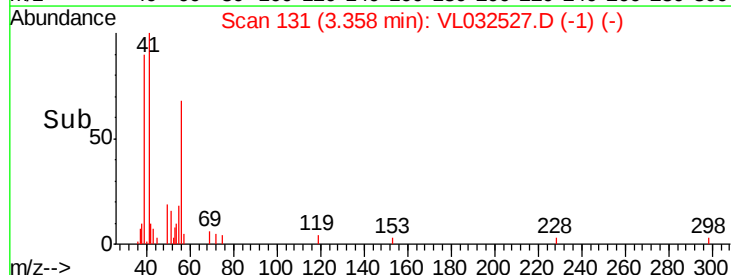
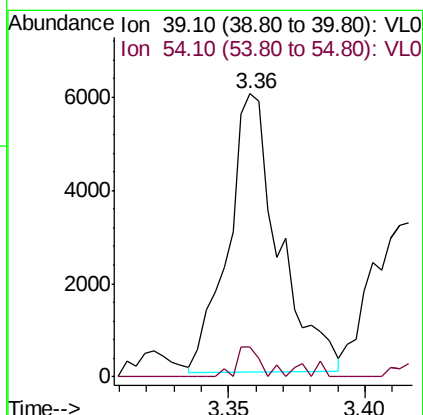
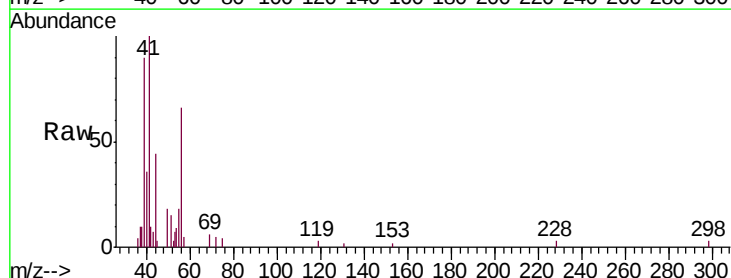
Acq: 25 Sep 2018 2:58

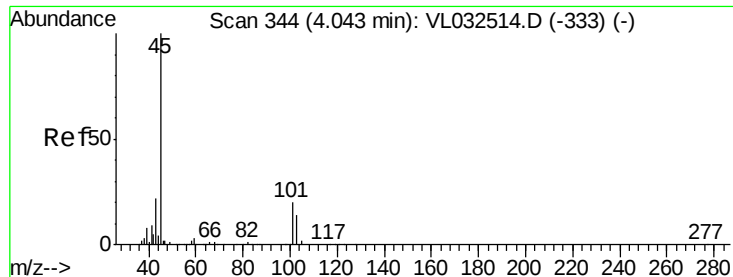
Tgt Ion: 39 Resp: 7728

Ion Ratio Lower Upper

39 100

54 5.8 80.8 121.2#





#19

Isopropyl Alcohol

Concen: 0.473 ppbv

RT: 4.06 min Scan# 349

Delta R.T. -0.00 min

Lab File: VL032527.D

Acq: 25 Sep 2018 2:58

Instrument :

MSVOA_L

ClientSampleId :

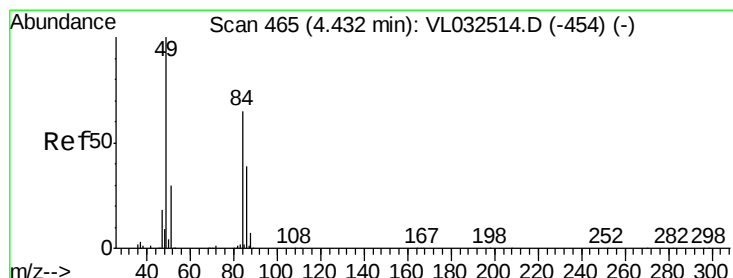
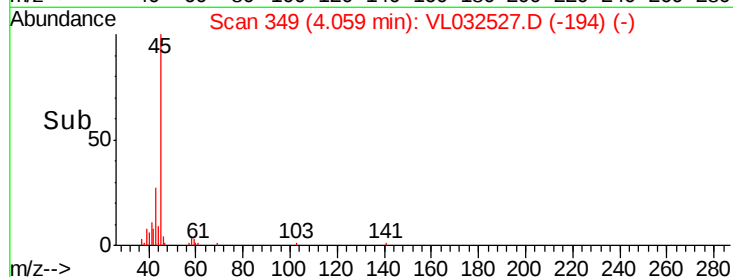
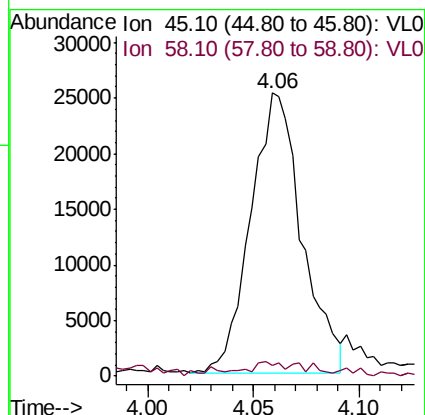
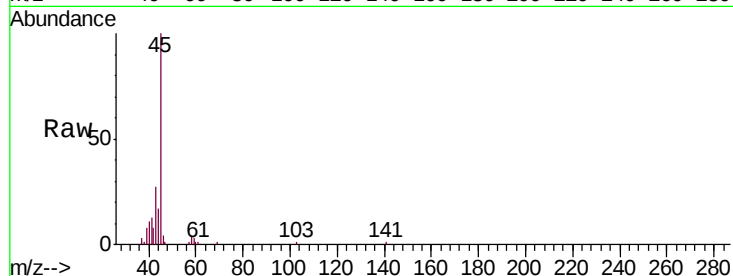
INDOOR-AIRDL

Tgt Ion: 45 Resp: 42558

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.896 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032527.D

Acq: 25 Sep 2018 2:58

Tgt Ion: 84 Resp: 55989

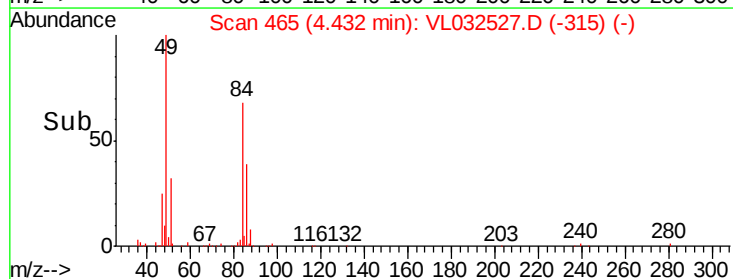
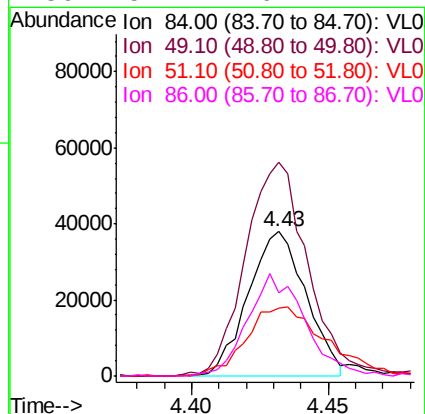
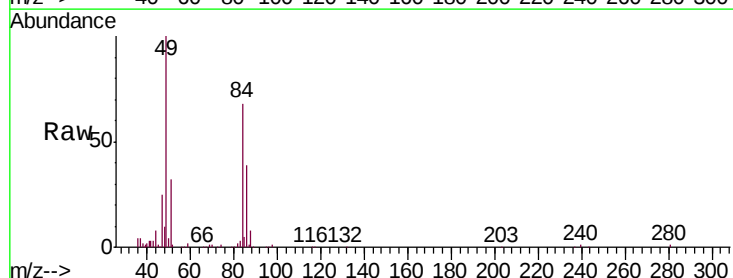
Ion Ratio Lower Upper

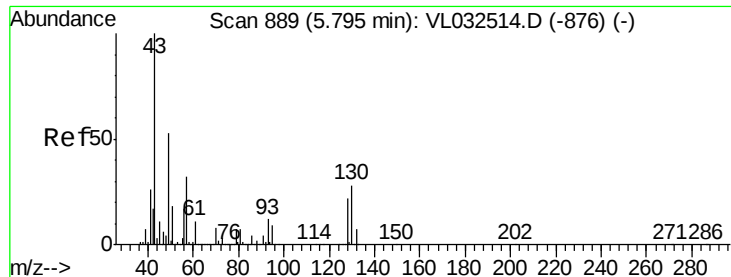
84 100

49 145.5 119.1 178.7

51 46.2 35.2 52.8

86 57.2 49.4 74.2





#25

Ethyl Acetate

Concen: 0.142 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL032527.D

Acq: 25 Sep 2018 2:58

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIRDL

Tgt Ion: 43 Resp: 44569

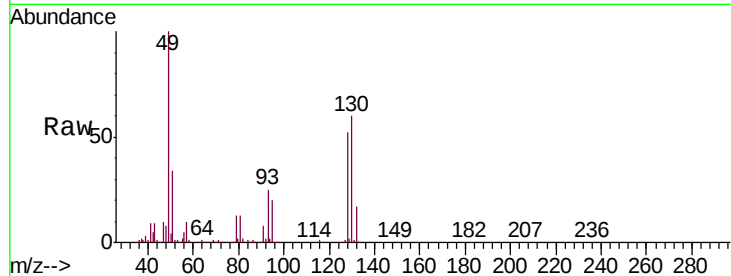
Ion Ratio Lower Upper

43 100

45 6.5 8.0 12.0#

61 2.9 7.6 11.4#

70 4.7 5.8 8.8#

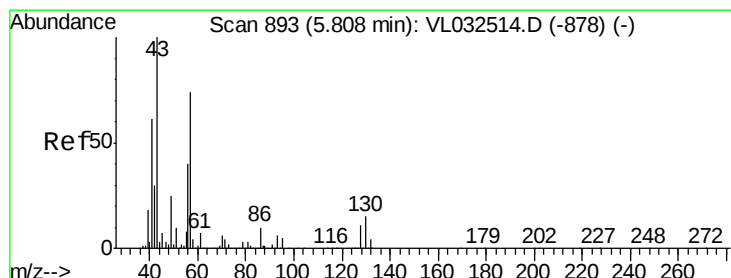
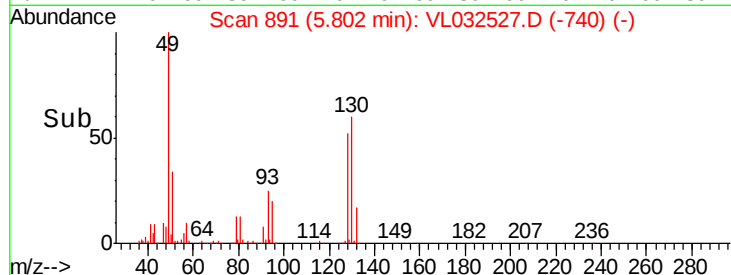
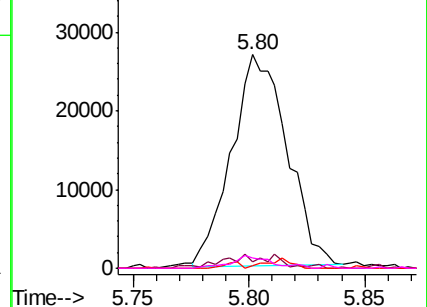


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.364 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL032527.D

Acq: 25 Sep 2018 2:58

Tgt Ion: 57 Resp: 51514

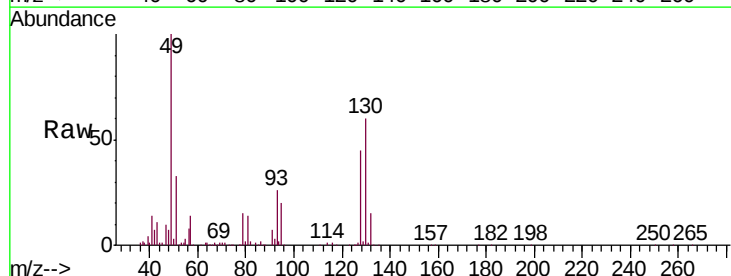
Ion Ratio Lower Upper

57 100

41 100.5 69.0 103.4

43 91.6 172.1 258.1#

56 63.3 42.2 63.2#

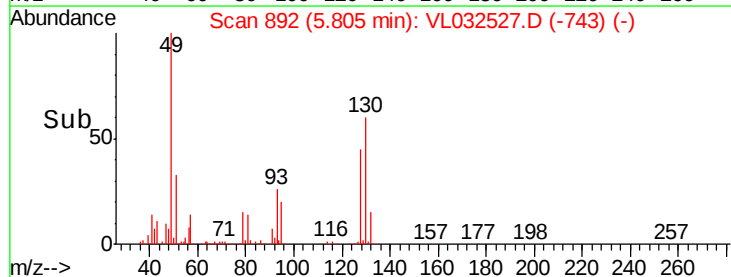
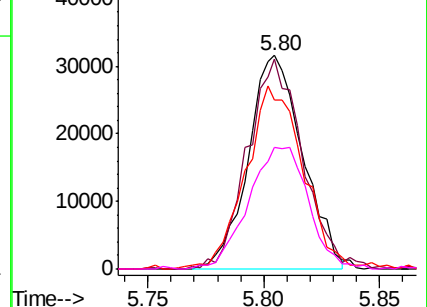


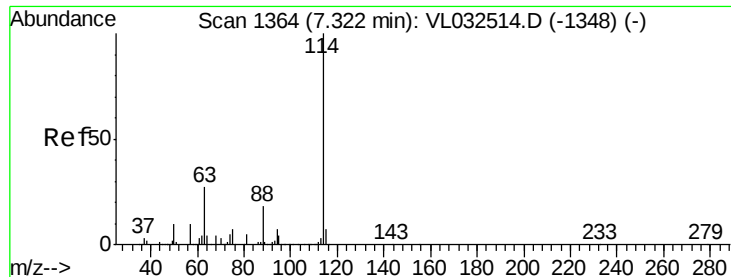
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

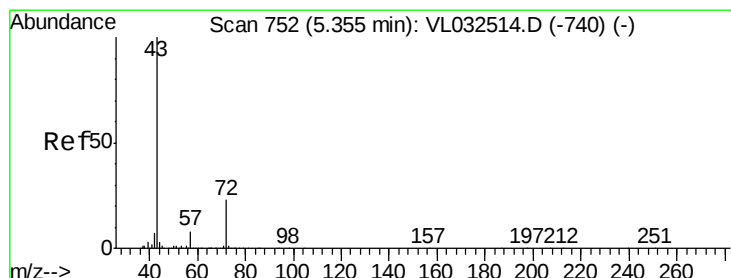
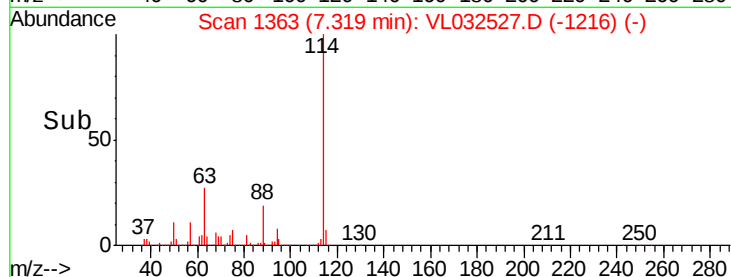
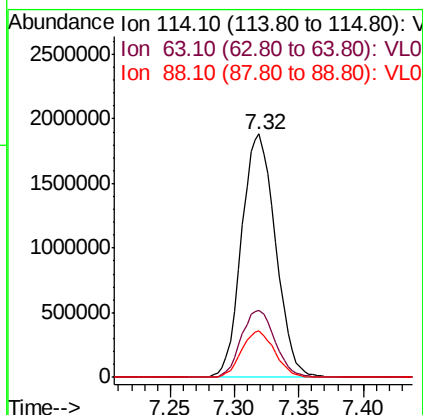
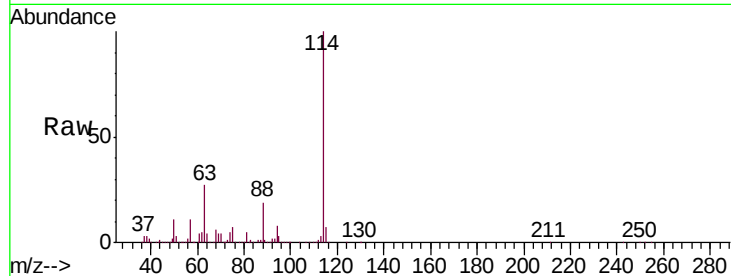




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032527.D
 Acq: 25 Sep 2018 2:58

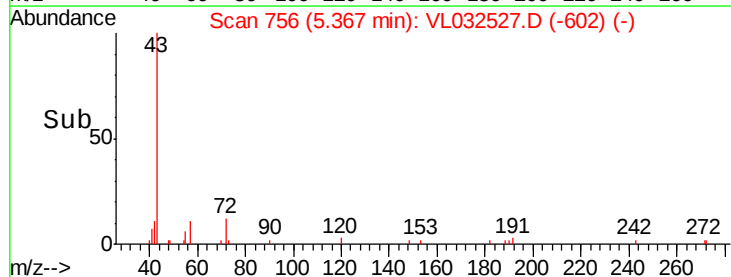
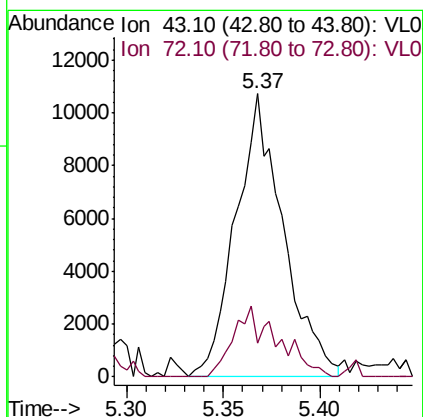
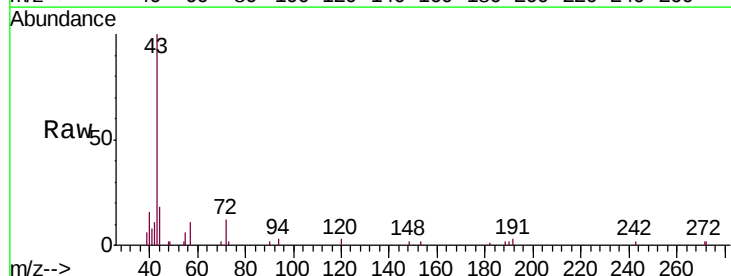
Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIRDL

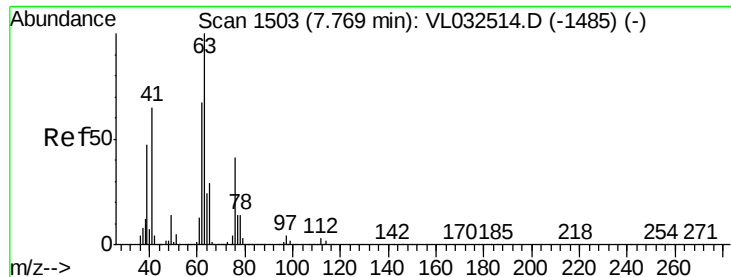
Tgt Ion:114 Resp: 3450118
 Ion Ratio Lower Upper
 114 100
 63 27.7 22.2 33.4
 88 18.7 15.0 22.4



#34
 2-Butanone
 Concen: 0.089 ppbv
 RT: 5.37 min Scan# 756
 Delta R.T. -0.01 min
 Lab File: VL032527.D
 Acq: 25 Sep 2018 2:58

Tgt Ion: 43 Resp: 18282
 Ion Ratio Lower Upper
 43 100
 72 24.7 17.8 26.6

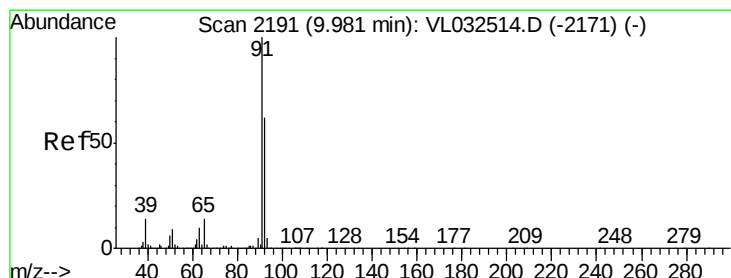
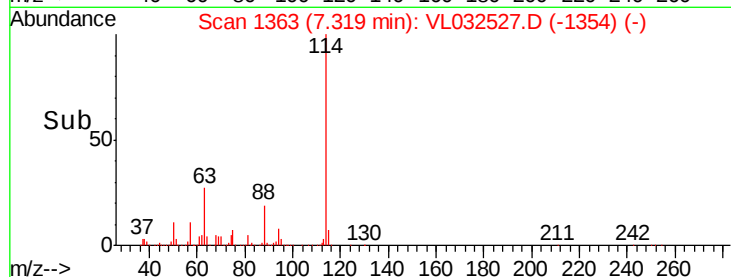
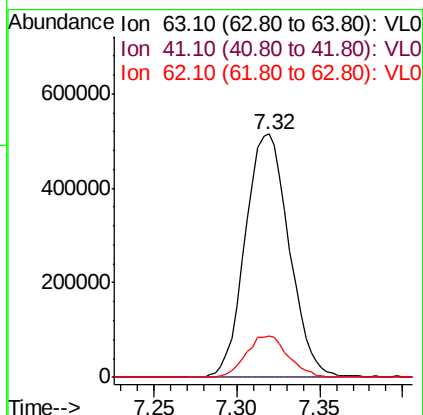
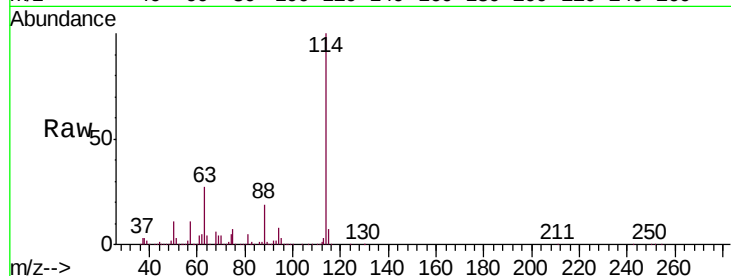




#39
 1,2-Dichloropropane
 Concen: 7.530 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.47 min
 Lab File: VL032527.D
 Acq: 25 Sep 2018 2:58

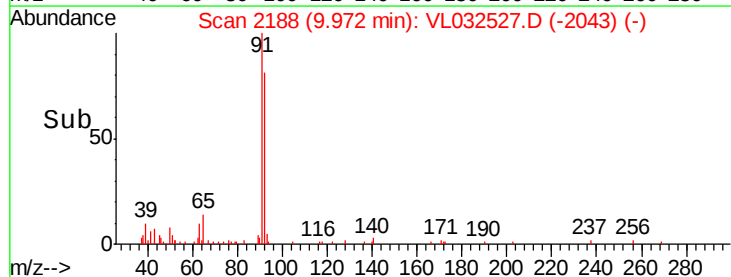
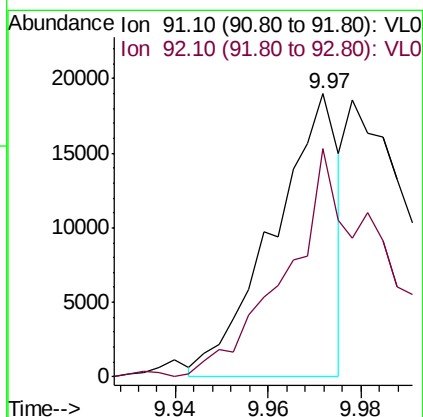
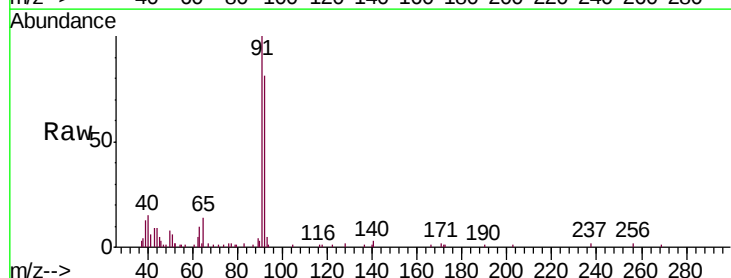
Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIRDL

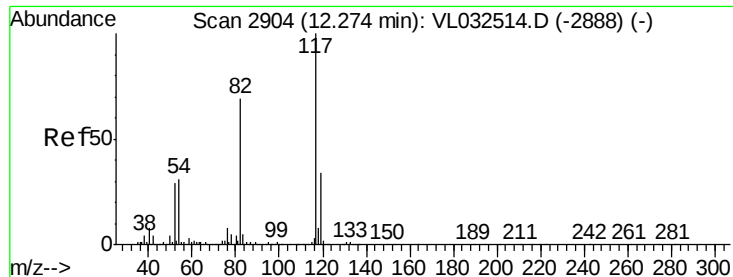
Tgt Ion: 63 Resp: 946092
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.4 83.0#
 62 17.0 55.4 83.0#



#53
 Toluene
 Concen: 0.055 ppbv
 RT: 9.97 min Scan# 2188
 Delta R.T. -0.03 min
 Lab File: VL032527.D
 Acq: 25 Sep 2018 2:58

Tgt Ion: 91 Resp: 18557
 Ion Ratio Lower Upper
 91 100
 92 123.0 48.1 72.1#

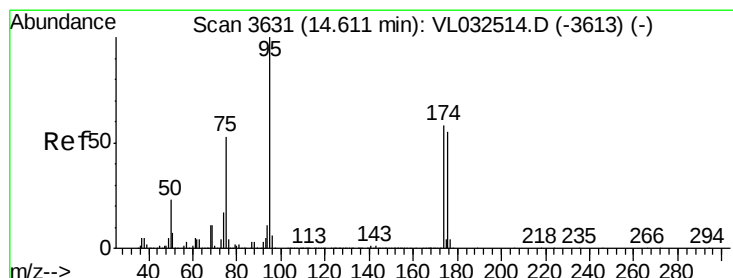
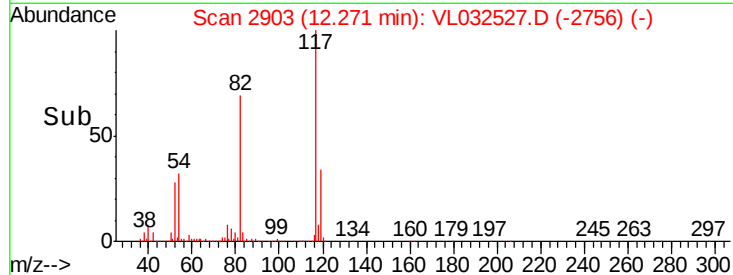
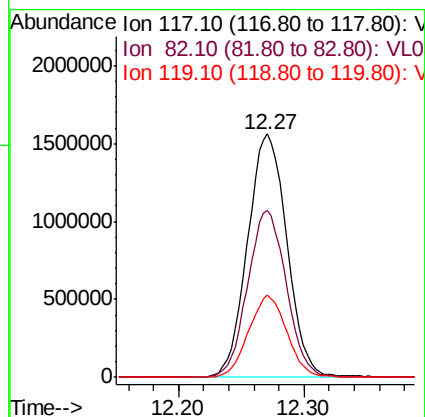
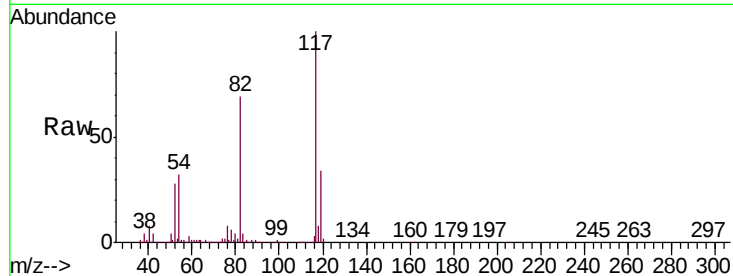




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. -0.03 min
Lab File: VL032527.D
Acq: 25 Sep 2018 2:58

Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIRDL

Tgt Ion: 117 Resp: 3404470
Ion Ratio Lower Upper
117 100
82 68.0 53.0 79.6
119 32.9 45.9 68.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.228 ppbv
RT: 14.61 min Scan# 3630
Delta R.T. -0.03 min
Lab File: VL032527.D
Acq: 25 Sep 2018 2:58

Tgt Ion: 95 Resp: 2625870
Ion Ratio Lower Upper
95 100
174 57.6 46.3 69.5
175 4.1 3.4 5.0

