

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL062918\
 Data File : VL032170.D
 Acq On : 30 Jun 2018 14:29
 Operator : SY/AP
 Sample : J3601-07DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-C-INDOORDL

Quant Time: Jul 02 00:51:36 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	5.84	49	1421197	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3387782	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3690389	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2777258	9.85	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

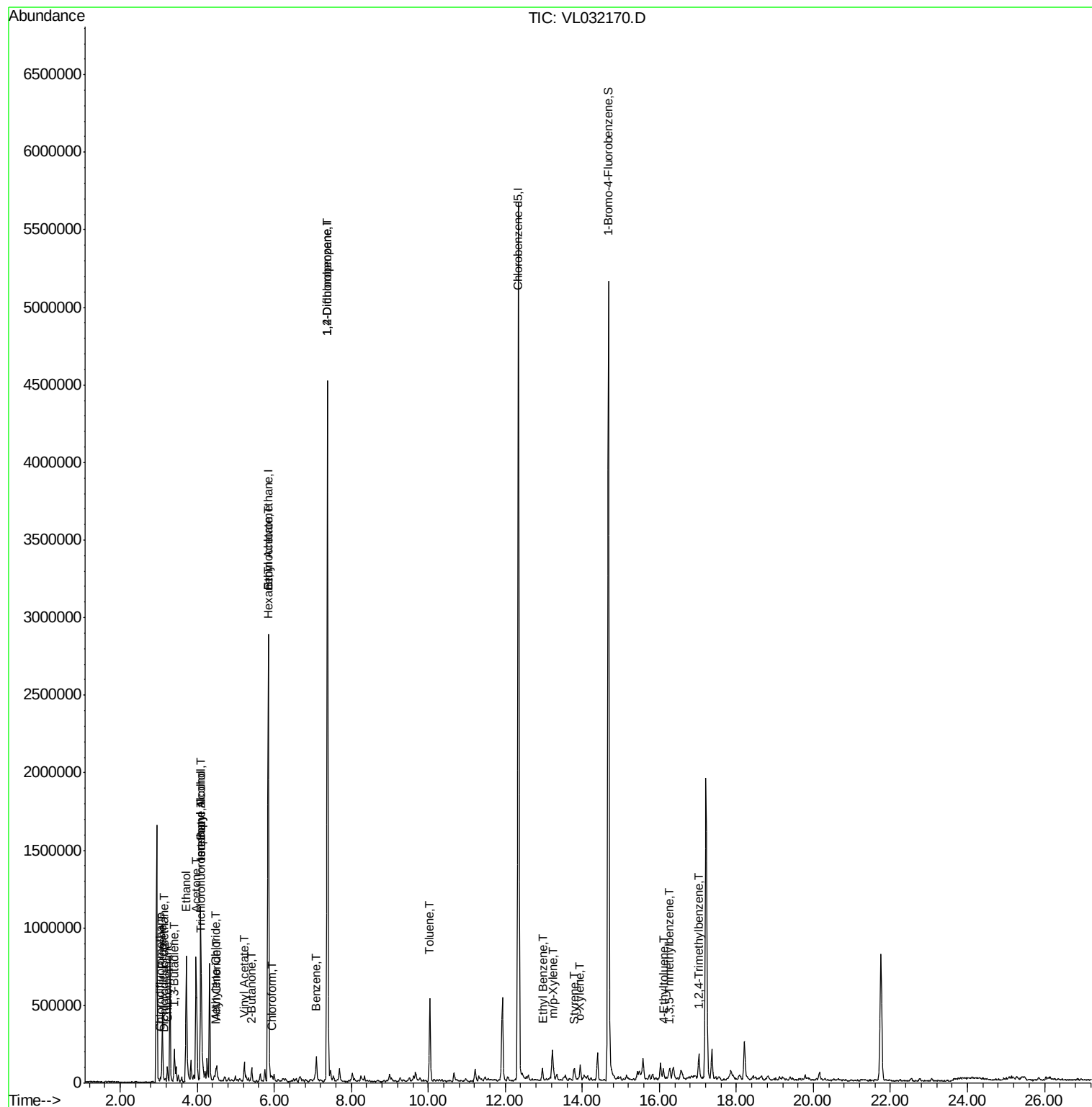
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.14	85	14177	0.076	ppbv #	75
3) Chlorodifluoromethane	3.04	51	28292	0.163	ppbv #	75
4) Chloromethane	3.23	50	86034	0.928	ppbv	95
9) Propene	3.09	41	186285	2.302	ppbv	91
11) Trichlorofluoromethane	4.07	101	6537	0.032	ppbv	99
13) Ethanol	3.71	45	914848	37.287	ppbv	99
15) Acetone	3.97	43	881261	5.303	ppbv	97
16) 1,3-Butadiene	3.42	39	37656	0.475	ppbv	89
17) tert-Butyl alcohol	4.09	59	50256	0.475	ppbv	96
19) Isopropyl Alcohol	4.09	45	1401211	10.148	ppbv #	42
20) Methylene Chloride	4.48	84	20846	0.343	ppbv #	87
21) Allyl Chloride	4.50	41	10669	0.094	ppbv #	1
23) Vinyl Acetate	5.22	43	80938	0.269	ppbv #	80
25) Ethyl Acetate	5.86	43	101119	0.294	ppbv #	95
26) Hexane	5.86	57	19311	0.122	ppbv #	1
29) Chloroform	5.93	83	14376	0.062	ppbv	97
34) 2-Butanone	5.41	43	102039	0.475	ppbv	97
36) Benzene	7.09	78	126877	0.387	ppbv	99
39) 1,2-Dichloropropane	7.38	63	883784	6.834	ppbv #	26
53) Toluene	10.04	91	414341	1.045	ppbv	97
58) Ethyl Benzene	12.96	91	36196	0.061	ppbv	95
59) m/p-Xylene	13.25	91	27326	0.057	ppbv #	29
60) o-Xylene	13.95	91	73050	0.154	ppbv	94
61) Styrene	13.78	104	15717	0.040	ppbv #	1
72) 4-Ethyltoluene	16.10	105	28513	0.046	ppbv #	79
73) 1,3,5-Trimethylbenzene	16.26	105	36157	0.063	ppbv	90
74) 1,2,4-Trimethylbenzene	17.03	105	96718	0.166	ppbv #	74

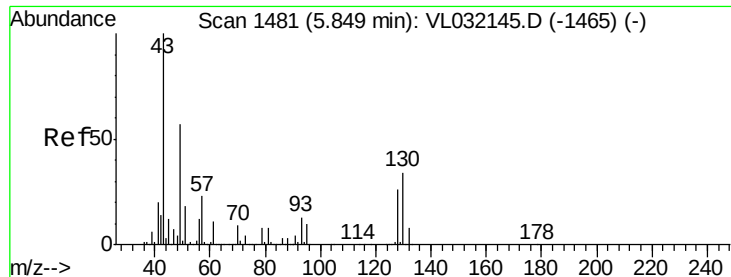
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. -0.02 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

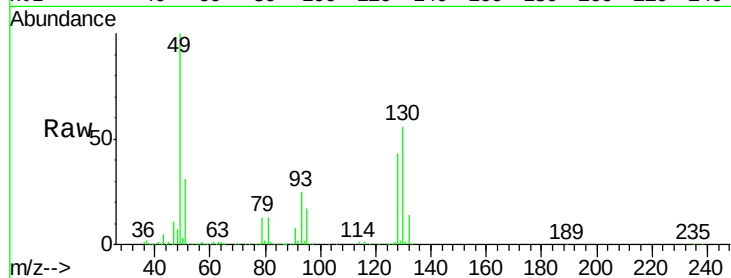
Tgt Ion: 49 Resp: 1421197

Ion Ratio Lower Upper

49 100

128 44.5 23.4 70.0

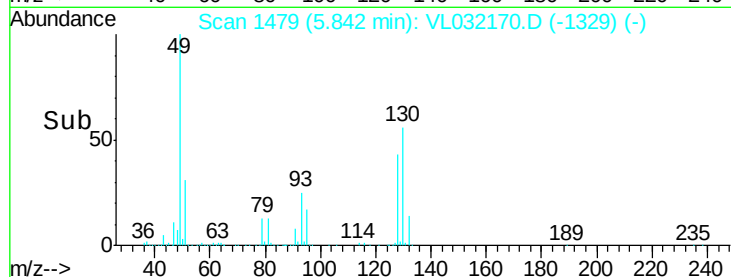
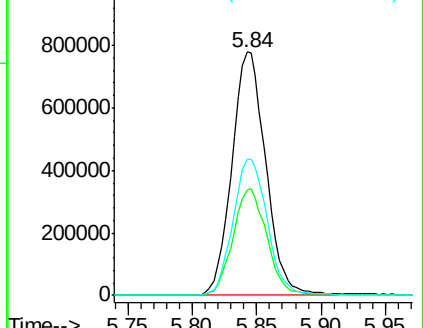
130 57.3 30.3 90.9



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: 0.076 ppbv

RT: 3.14 min Scan# 637

Delta R.T. -0.01 min

Lab File: VL032170.D

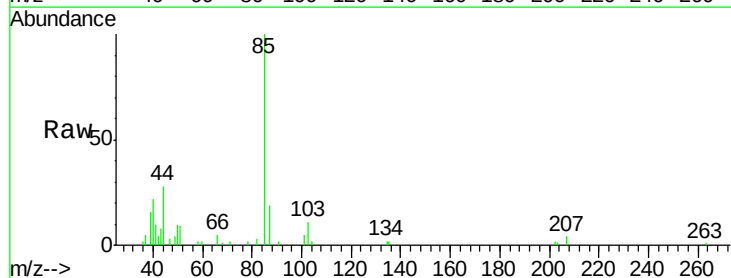
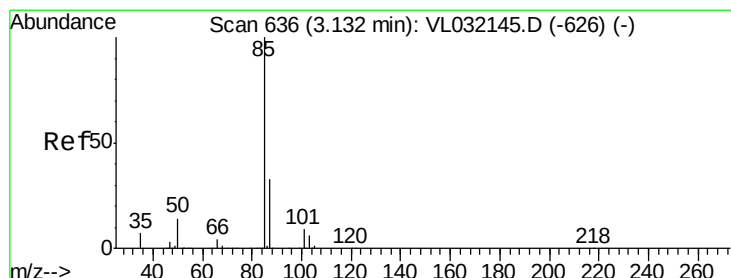
Acq: 30 Jun 2018 14:29

Tgt Ion: 85 Resp: 14177

Ion Ratio Lower Upper

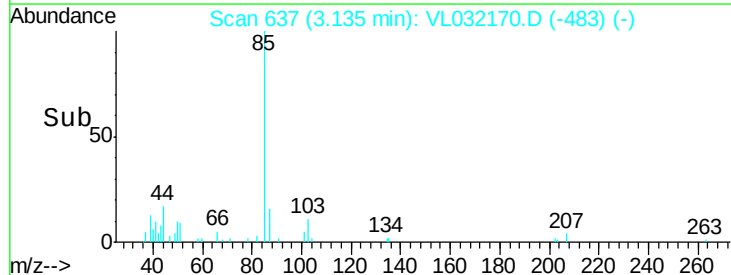
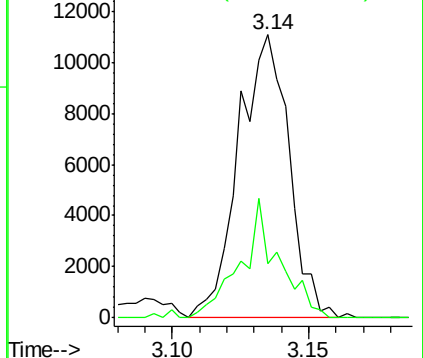
85 100

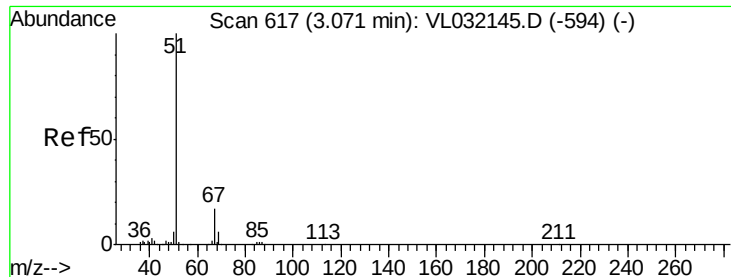
87 19.3 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.163 ppbv

RT: 3.04 min Scan# 608

Delta R.T. -0.04 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

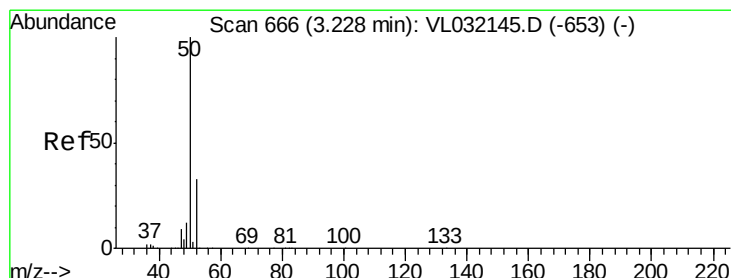
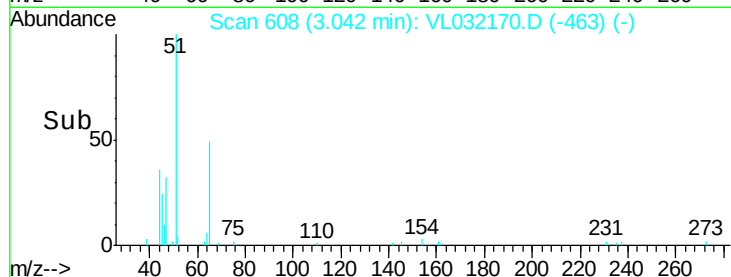
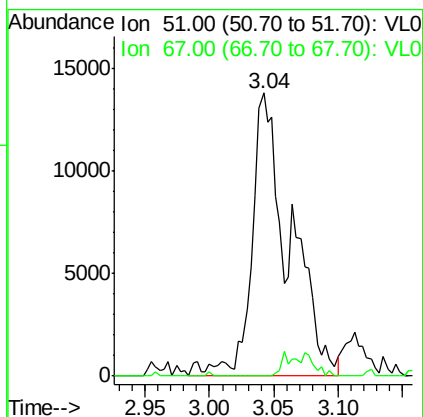
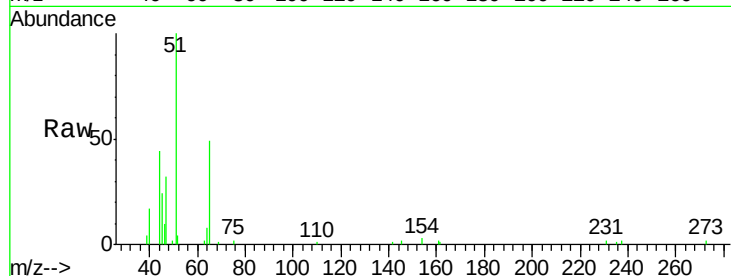
RESIDENT-C-INDOORDL

Tgt Ion: 51 Resp: 28292

Ion Ratio Lower Upper

51 100

67 5.6 13.2 19.8#



#4

Chloromethane

Concen: 0.928 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032170.D

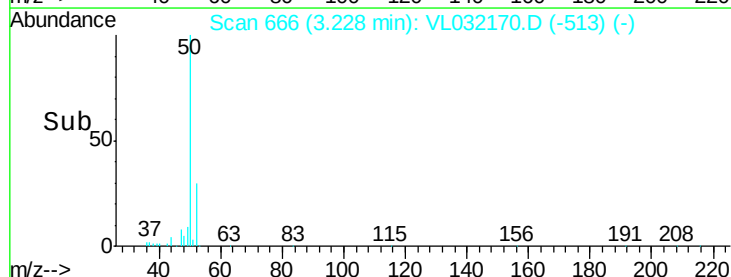
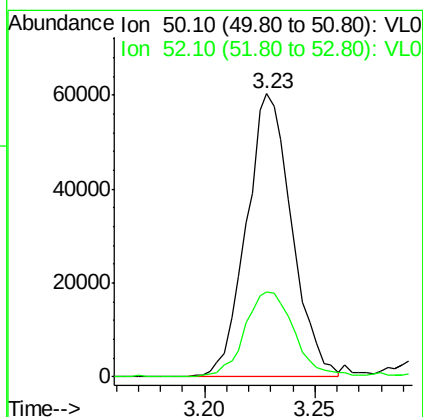
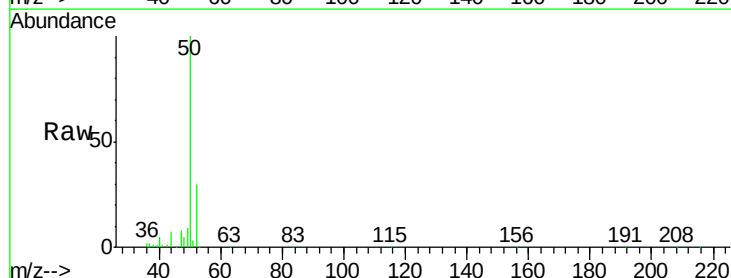
Acq: 30 Jun 2018 14:29

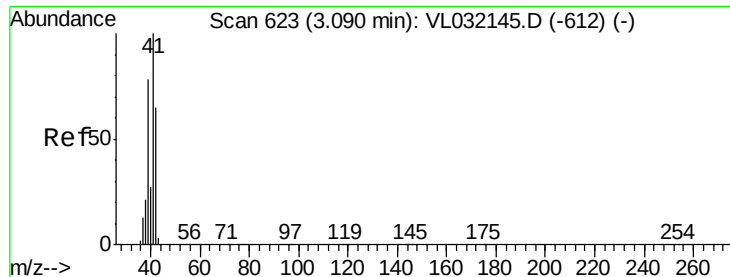
Tgt Ion: 50 Resp: 86034

Ion Ratio Lower Upper

50 100

52 29.9 26.0 39.0





#9

Propene

Concen: 2.302 ppbv

RT: 3.09 min Scan# 623

Delta R.T. -0.01 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

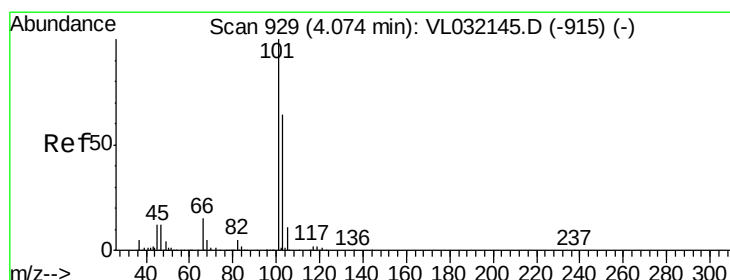
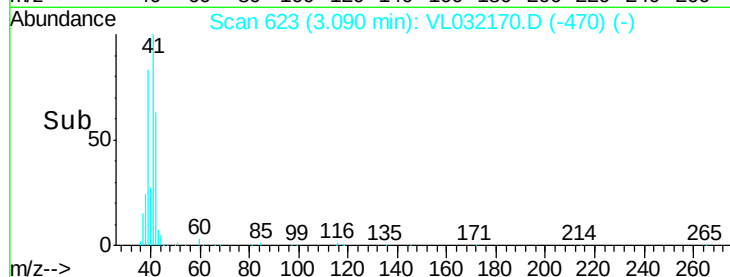
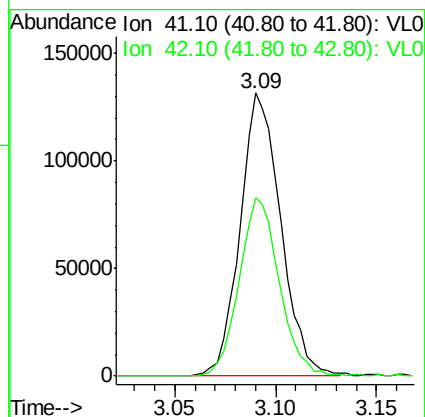
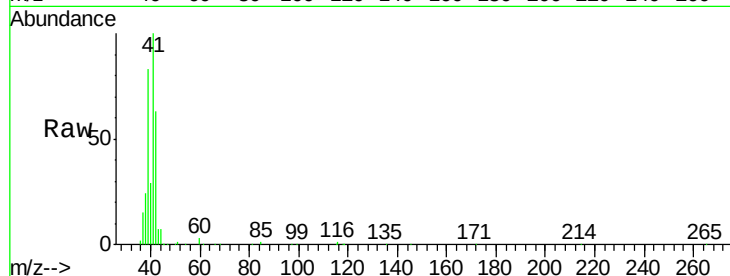
RESIDENT-C-INDOORDL

Tgt Ion: 41 Resp: 186285

Ion Ratio Lower Upper

41 100

42 62.8 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.032 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032170.D

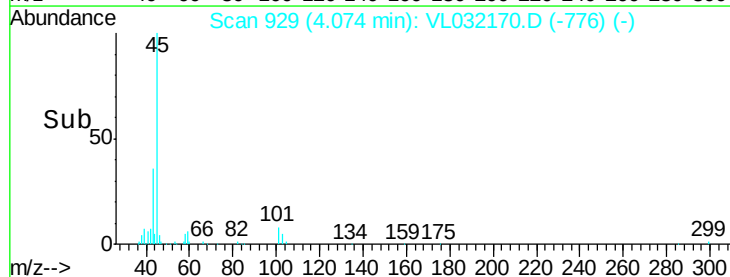
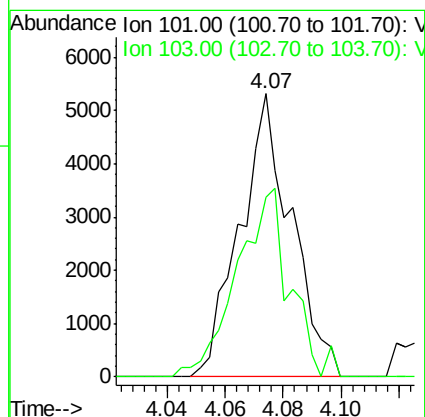
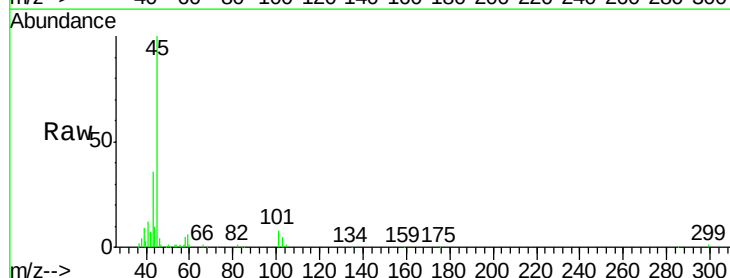
Acq: 30 Jun 2018 14:29

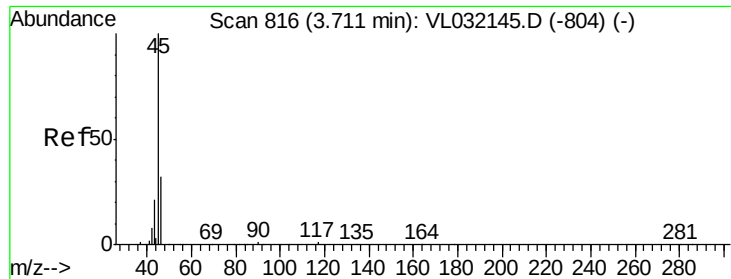
Tgt Ion: 101 Resp: 6537

Ion Ratio Lower Upper

101 100

103 63.3 51.4 77.0

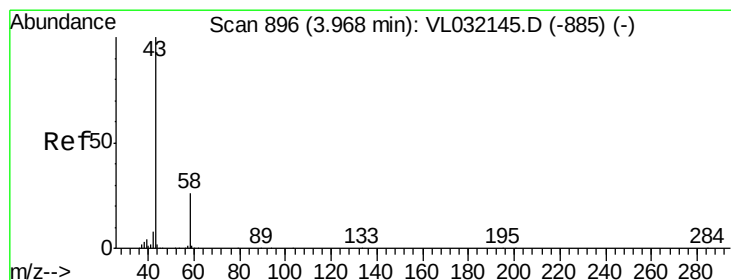
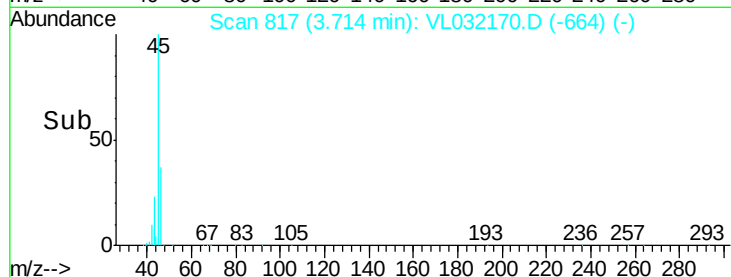
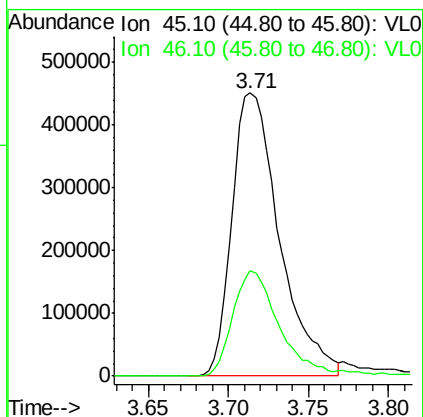
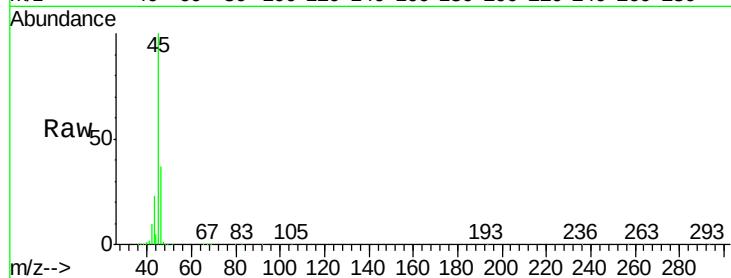




#13
Ethanol
Concen: 37.287 ppbv
RT: 3.71 min Scan# 817
Delta R.T. -0.01 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

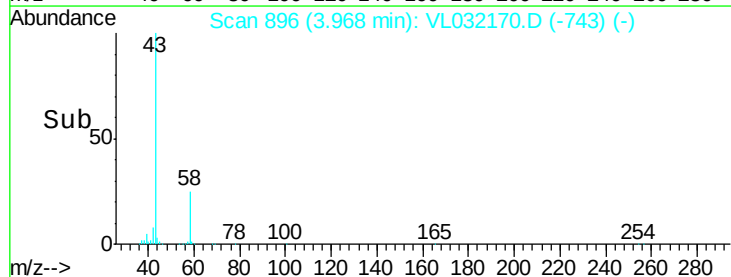
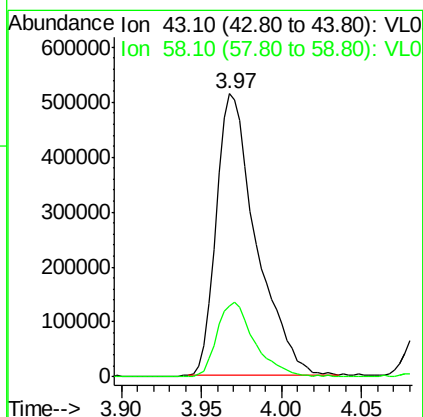
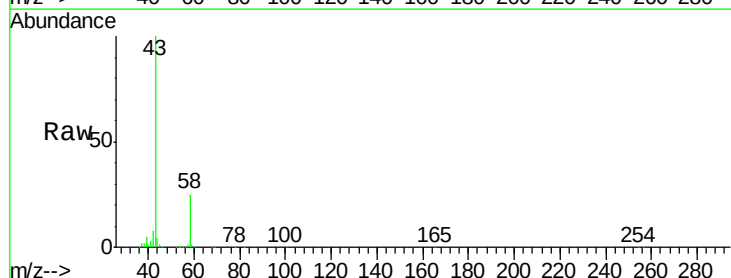
Instrument :
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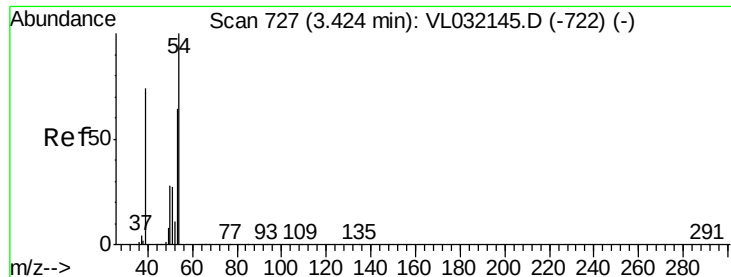
Tgt Ion: 45 Resp: 914848
Ion Ratio Lower Upper
45 100
46 37.1 14.6 58.4



#15
Acetone
Concen: 5.303 ppbv
RT: 3.97 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

Tgt Ion: 43 Resp: 881261
Ion Ratio Lower Upper
43 100
58 25.2 21.4 32.0

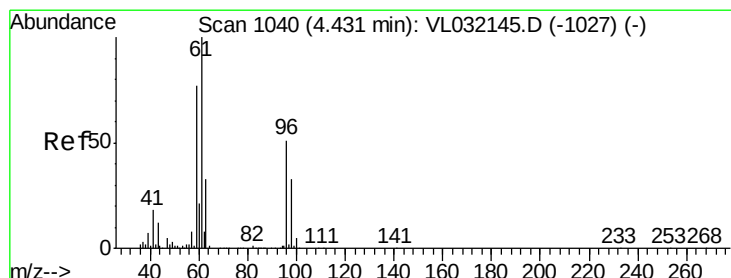
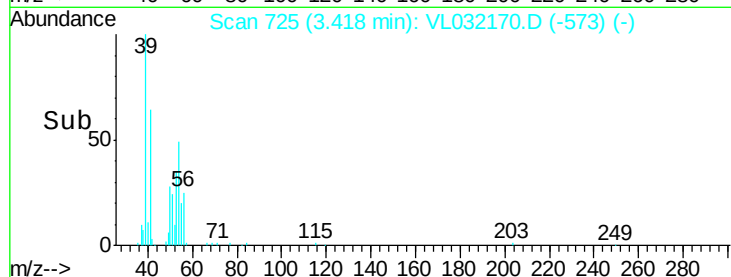
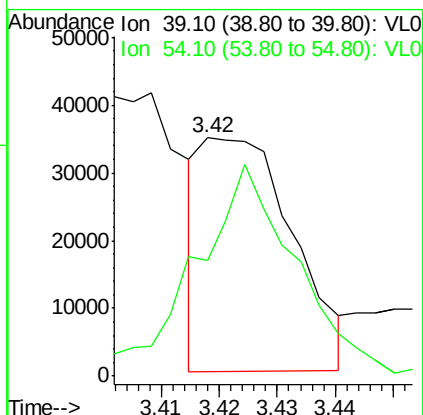
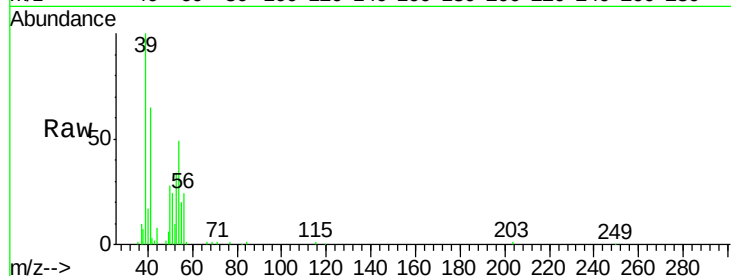




#16
1,3-Butadiene
Concen: 0.475 ppbv
RT: 3.42 min Scan# 725
Delta R.T. -0.01 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

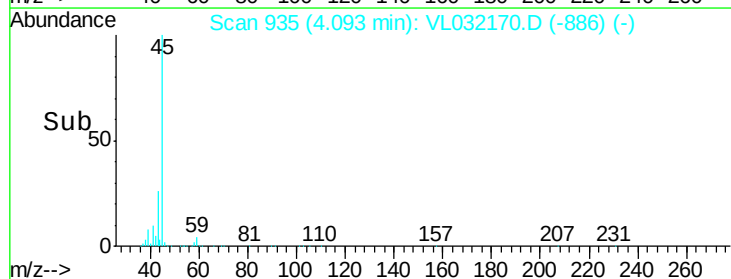
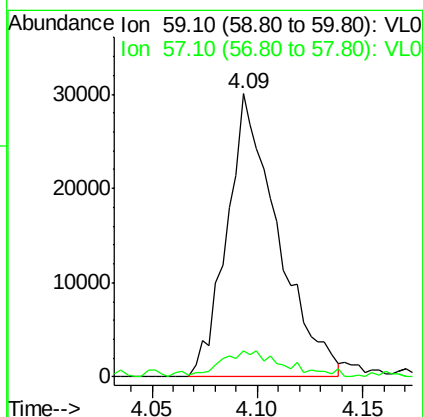
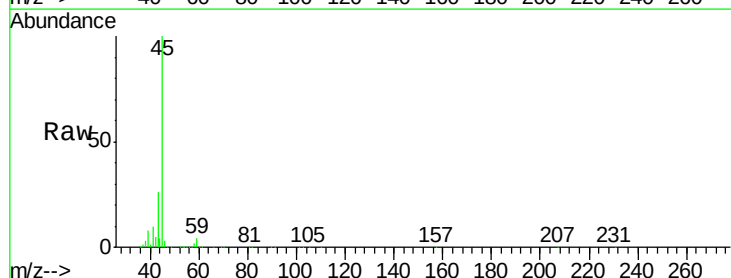
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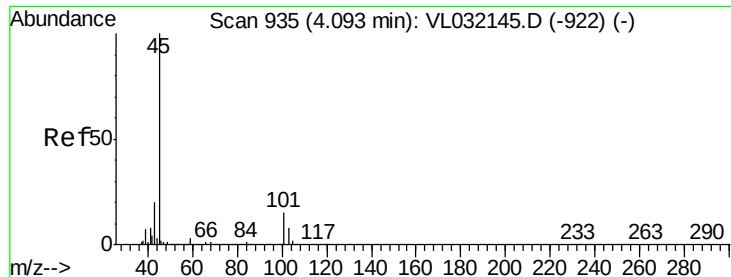
Tgt Ion: 39 Resp: 37656
Ion Ratio Lower Upper
39 100
54 104.9 75.8 113.6



#17
tert-Butyl alcohol
Concen: 0.475 ppbv
RT: 4.09 min Scan# 935
Delta R.T. -0.34 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

Tgt Ion: 59 Resp: 50256
Ion Ratio Lower Upper
59 100
57 11.7 8.2 12.2

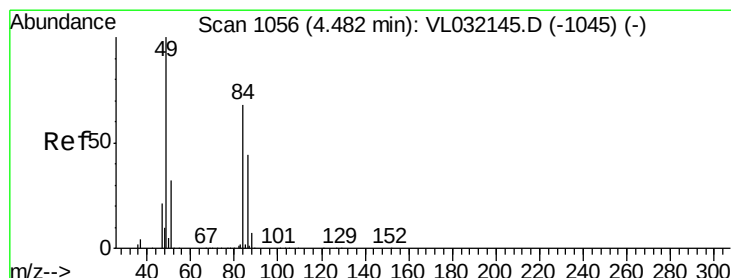
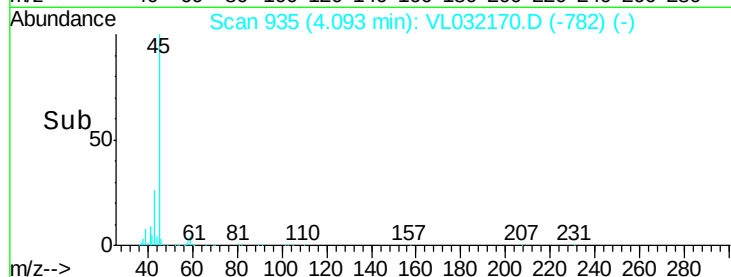
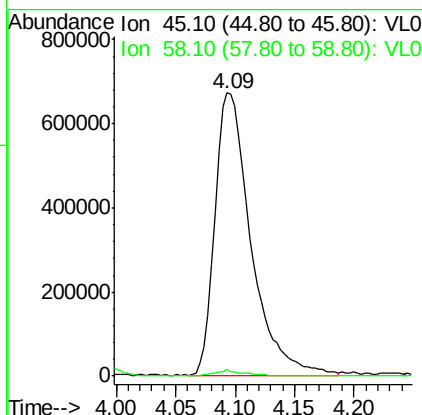
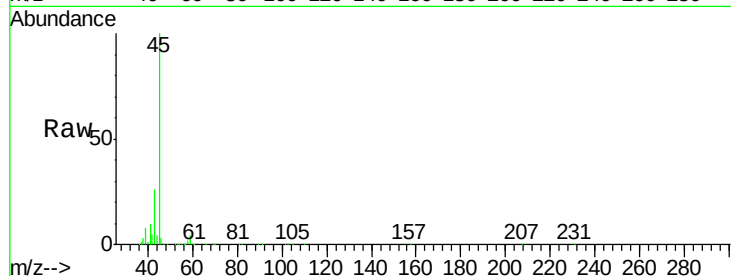




#19
Isopropyl Alcohol
Concen: 10.148 ppbv
RT: 4.09 min Scan# 935
Delta R.T. -0.01 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

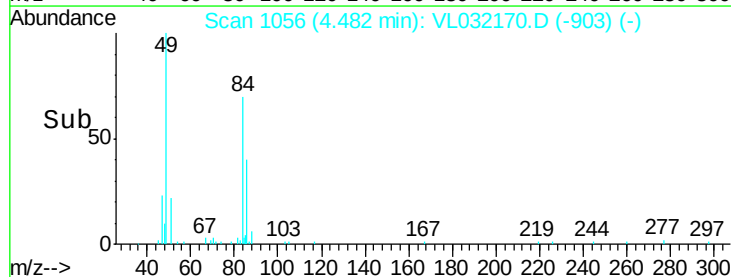
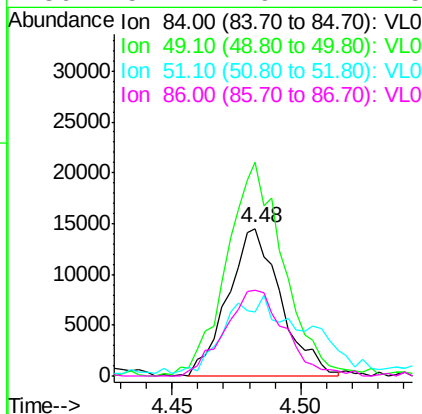
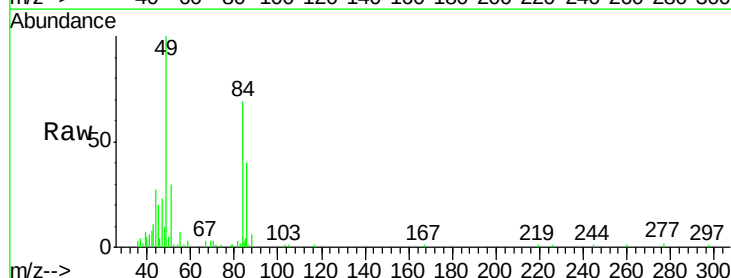
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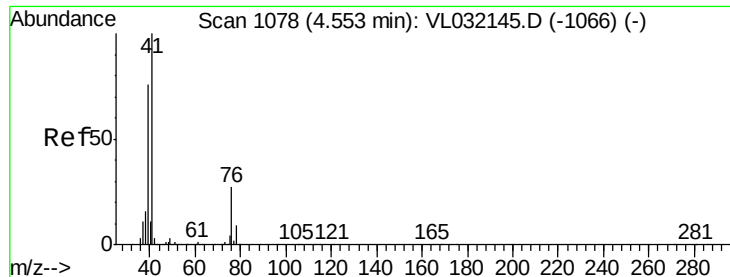
Tgt Ion: 45 Resp: 1401211
Ion Ratio Lower Upper
45 100
58 2.1 29.4 44.0#



#20
Methylene Chloride
Concen: 0.343 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

Tgt Ion: 84 Resp: 20846
Ion Ratio Lower Upper
84 100
49 133.1 119.6 179.4
51 35.1 36.3 54.5#
86 52.2 49.7 74.5

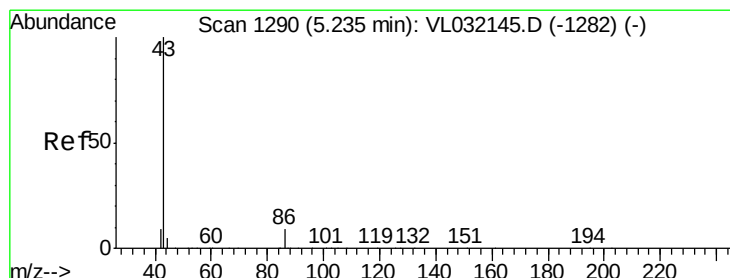
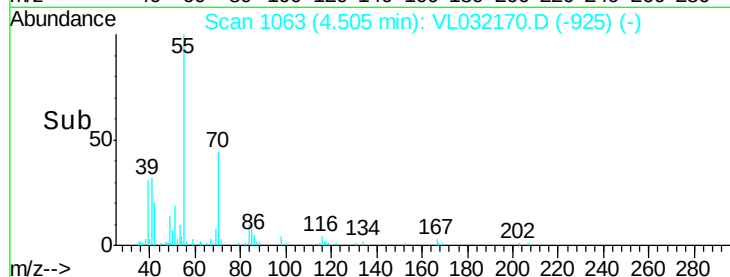
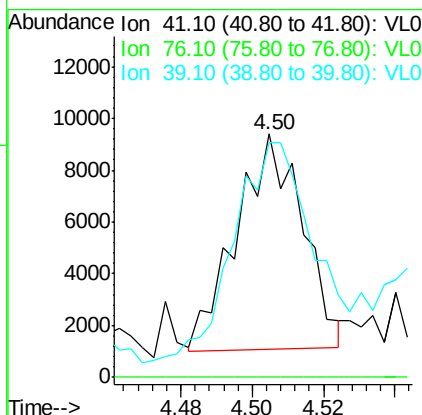
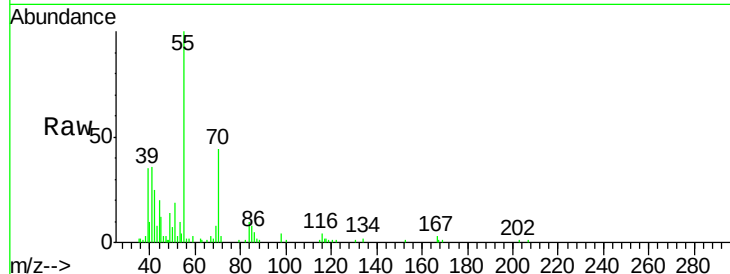




#21
 Allyl Chloride
 Concen: 0.094 ppbv
 RT: 4.50 min Scan# 1063
 Delta R.T. -0.06 min
 Lab File: VL032170.D
 Acq: 30 Jun 2018 14:29

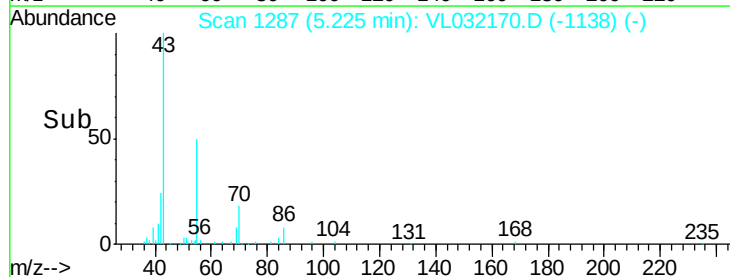
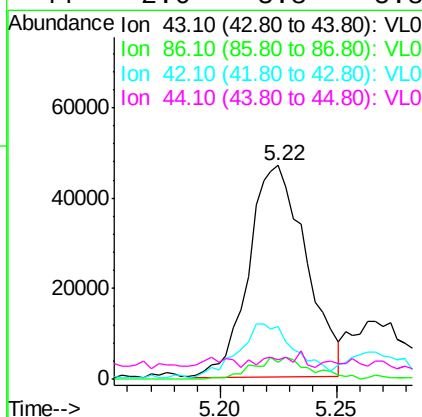
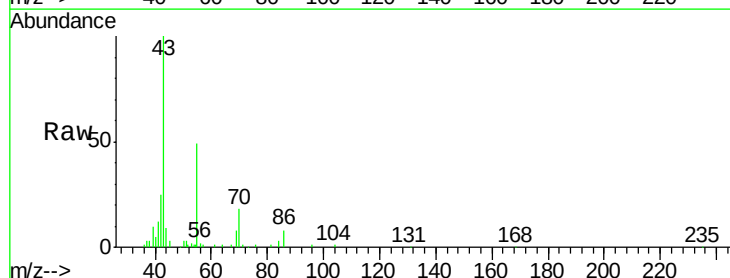
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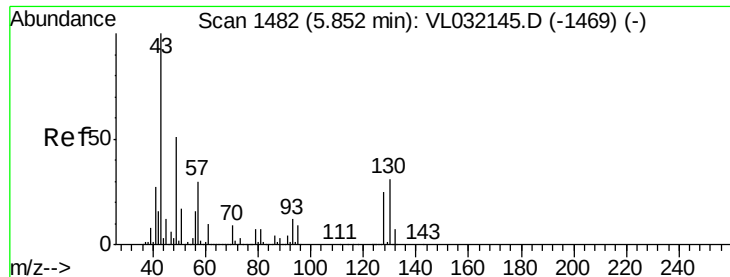
Tgt Ion: 41 Resp: 10669
 Ion Ratio Lower Upper
 41 100
 76 1.1 22.5 33.7#
 39 191.5 60.5 90.7#



#23
 Vinyl Acetate
 Concen: 0.269 ppbv
 RT: 5.22 min Scan# 1287
 Delta R.T. -0.02 min
 Lab File: VL032170.D
 Acq: 30 Jun 2018 14:29

Tgt Ion: 43 Resp: 80938
 Ion Ratio Lower Upper
 43 100
 86 8.2 6.2 9.4
 42 24.4 6.9 10.3#
 44 2.6 3.8 5.8#

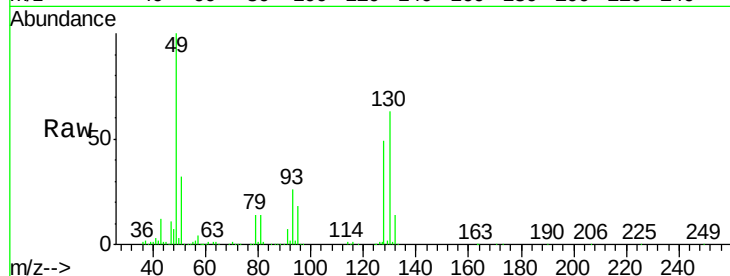




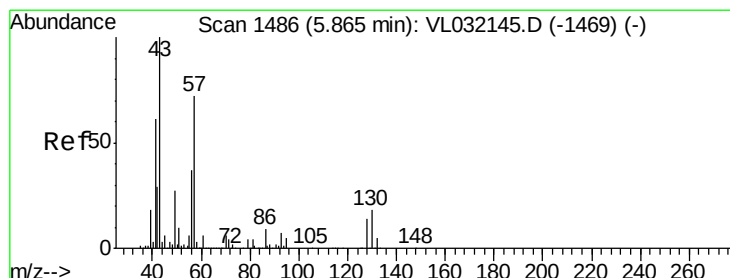
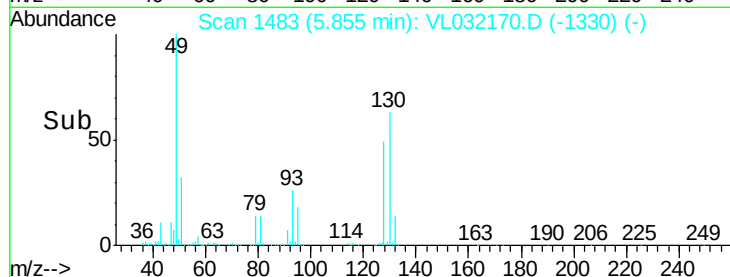
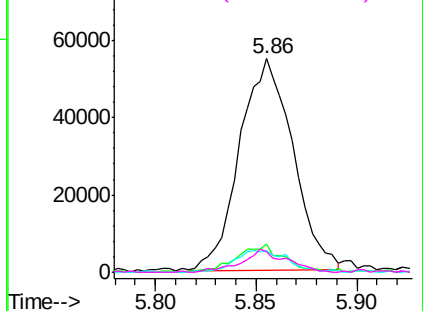
#25
Ethyl Acetate
Concen: 0.294 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.01 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-C-INDOORDL

Tgt Ion:	43	Resp:	101119
Ion	Ratio	Lower	Upper
43	100		
45	12.9	7.8	11.8#
61	10.6	7.4	11.0
70	8.9	6.1	9.1

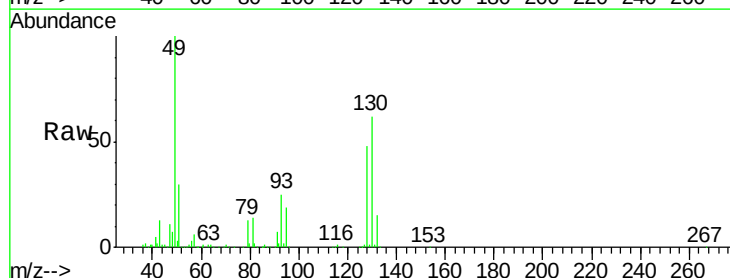


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

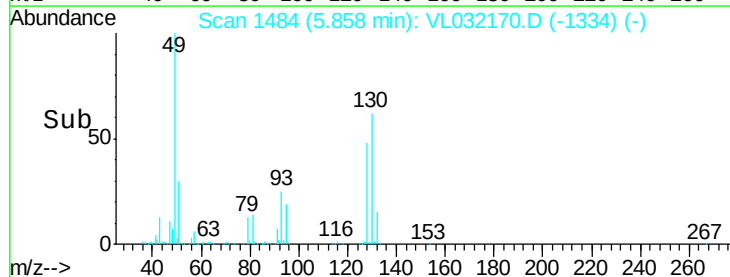
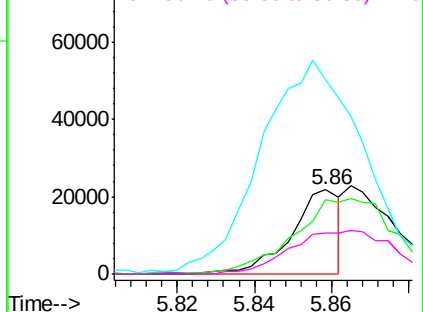


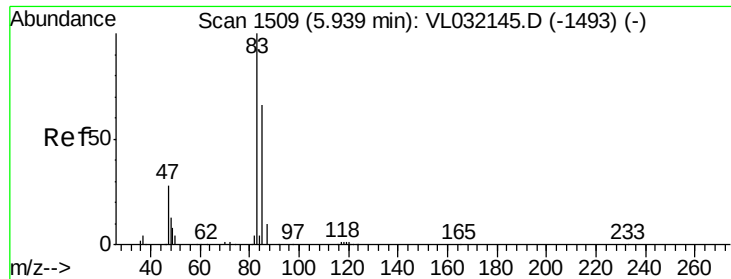
#26
Hexane
Concen: 0.122 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.02 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

Tgt Ion:	57	Resp:	19311
Ion	Ratio	Lower	Upper
57	100		
41	0.0	68.6	103.0#
43	543.1	168.6	252.8#
56	0.0	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

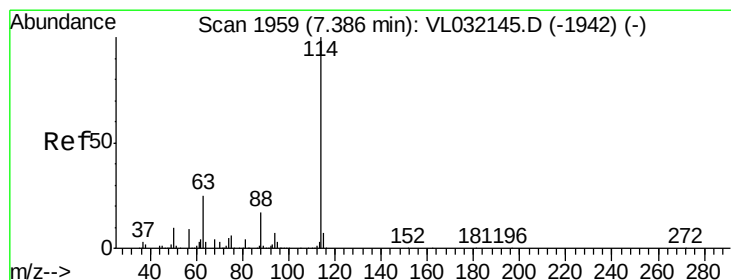
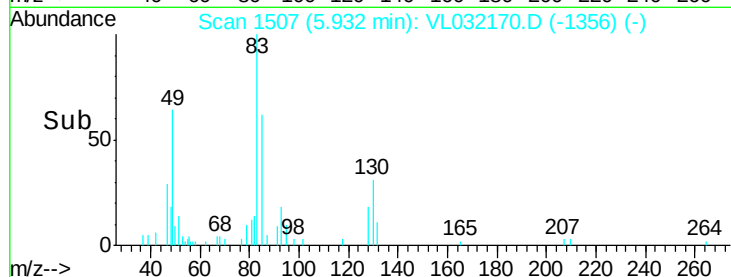
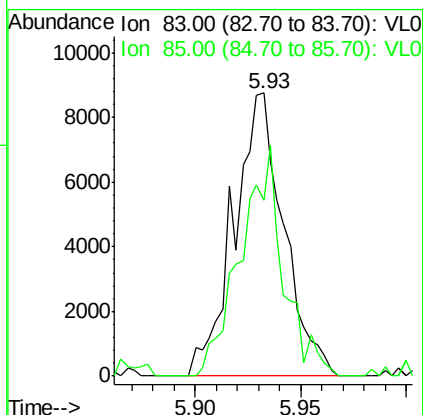
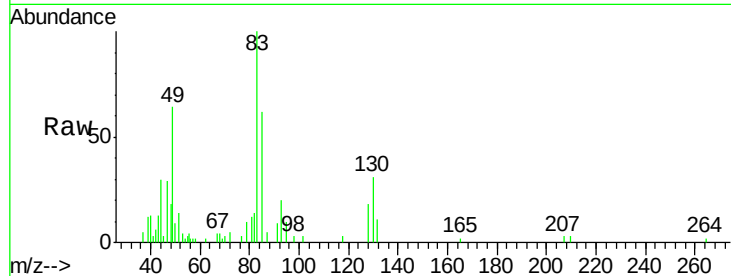




#29
Chloroform
Concen: 0.062 ppbv
RT: 5.93 min Scan# 1507
Delta R.T. -0.02 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

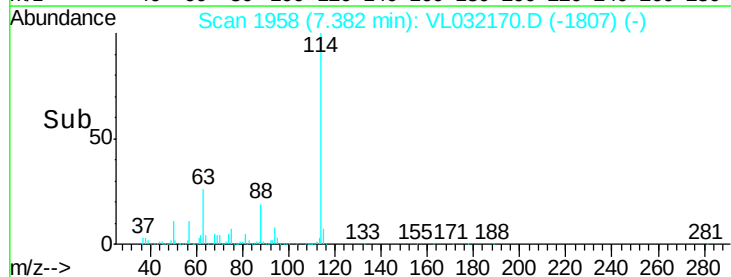
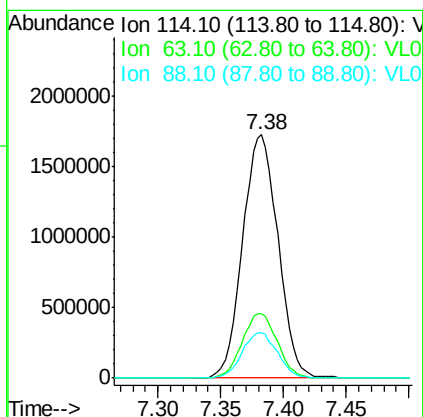
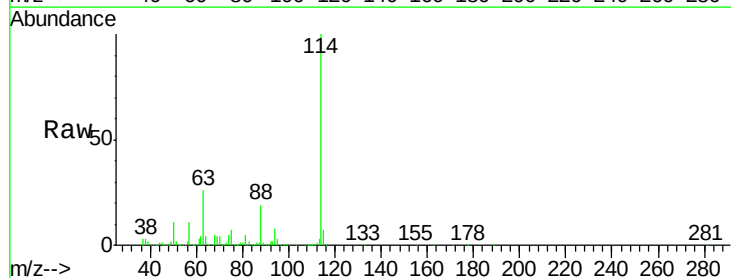
Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-C-INDOORDL

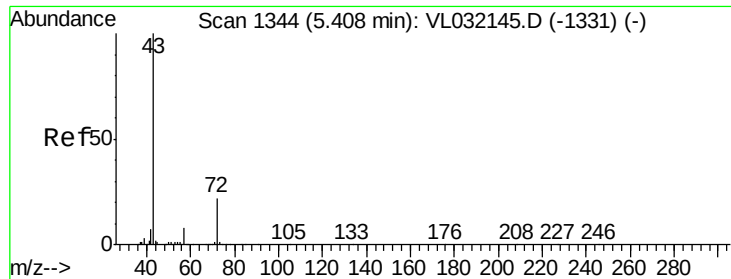
Tgt Ion: 83 Resp: 14376
Ion Ratio Lower Upper
83 100
85 62.0 51.6 77.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.38 min Scan# 1958
Delta R.T. -0.02 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

Tgt Ion: 114 Resp: 3387782
Ion Ratio Lower Upper
114 100
63 26.4 19.1 28.7
88 18.8 13.9 20.9

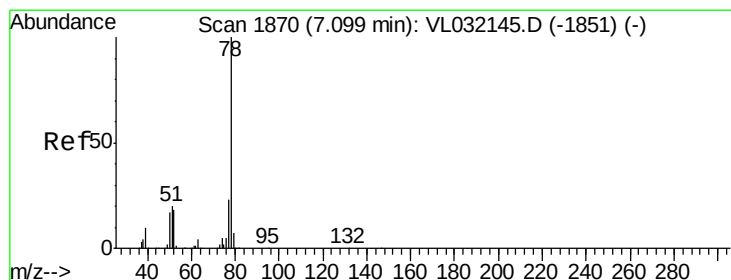
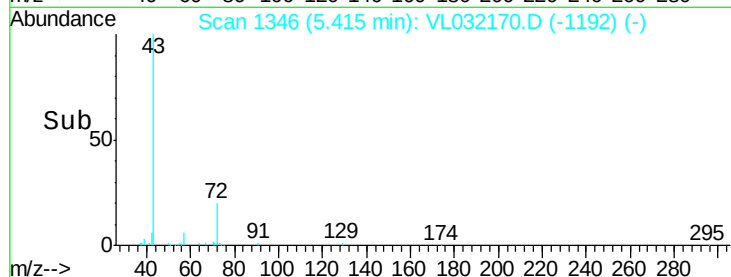
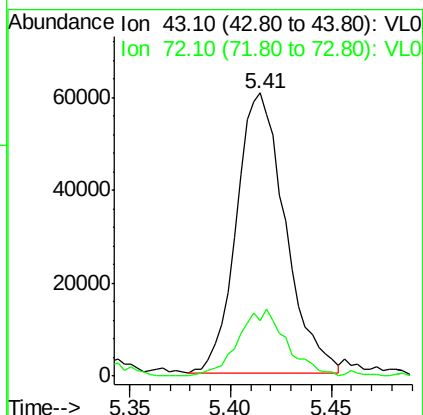
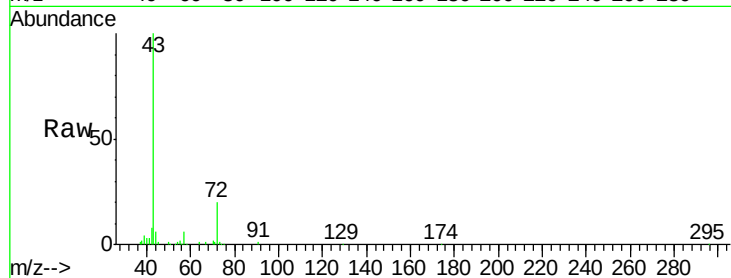




#34
 2-Butanone
 Concen: 0.475 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: VL032170.D
 Acq: 30 Jun 2018 14:29

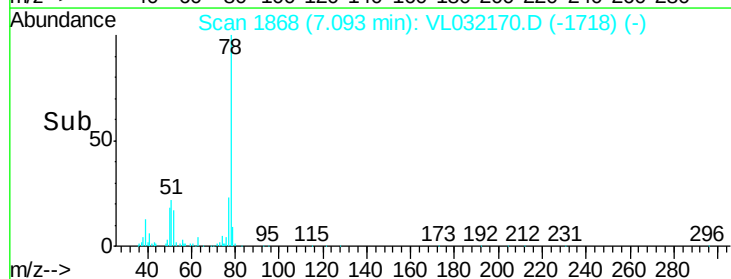
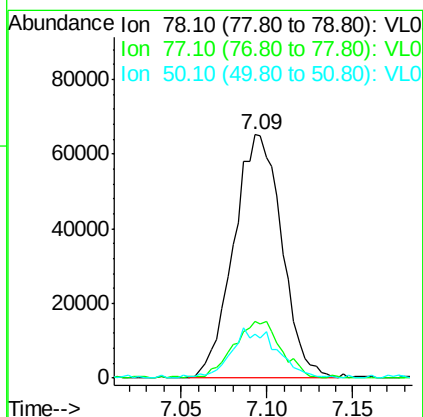
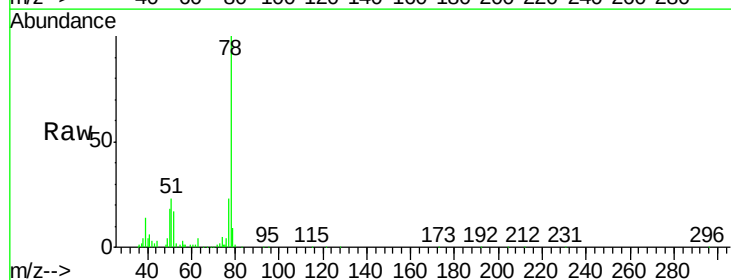
Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-C-INDOORDL

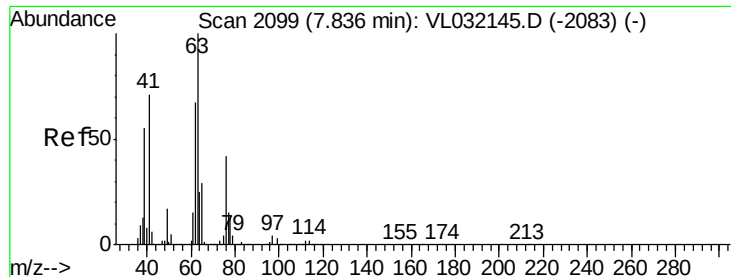
Tgt Ion: 43 Resp: 102039
 Ion Ratio Lower Upper
 43 100
 72 24.5 18.4 27.6



#36
 Benzene
 Concen: 0.387 ppbv
 RT: 7.09 min Scan# 1868
 Delta R.T. -0.02 min
 Lab File: VL032170.D
 Acq: 30 Jun 2018 14:29

Tgt Ion: 78 Resp: 126877
 Ion Ratio Lower Upper
 78 100
 77 22.5 17.7 26.5
 50 18.3 14.0 21.0





#39

1,2-Dichloropropane

Concen: 6.834 ppbv

RT: 7.38 min Scan# 1957

Delta R.T. -0.47 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

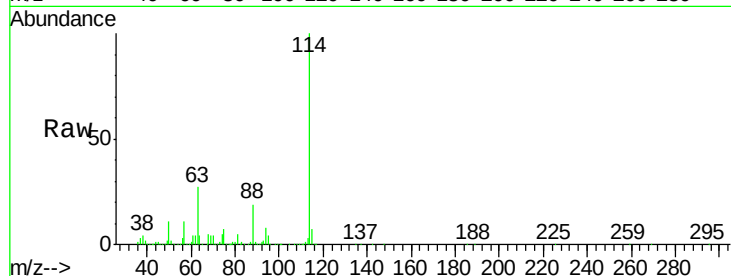
Tgt Ion: 63 Resp: 883784

Ion Ratio Lower Upper

63 100

41 0.0 53.3 79.9#

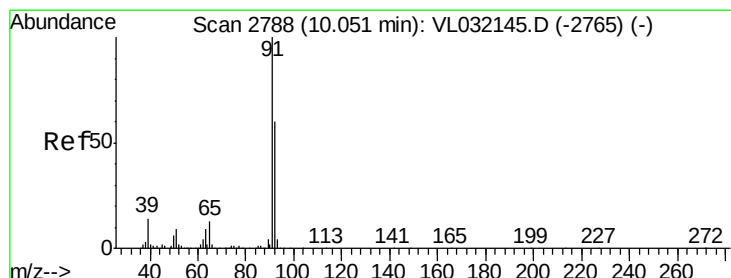
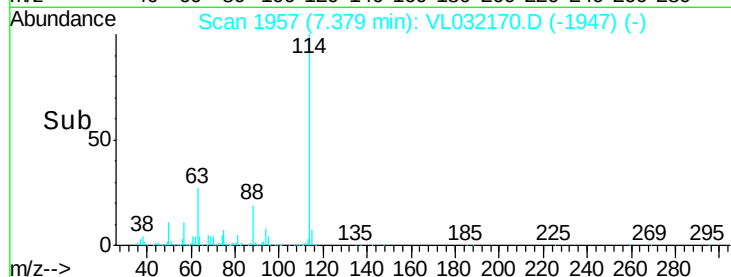
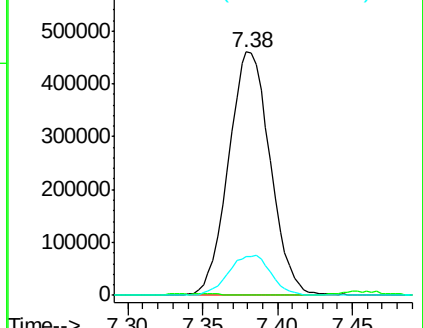
62 15.8 54.8 82.2#



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: 1.045 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032170.D

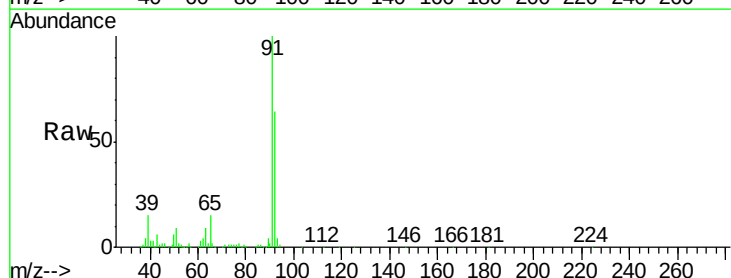
Acq: 30 Jun 2018 14:29

Tgt Ion: 91 Resp: 414341

Ion Ratio Lower Upper

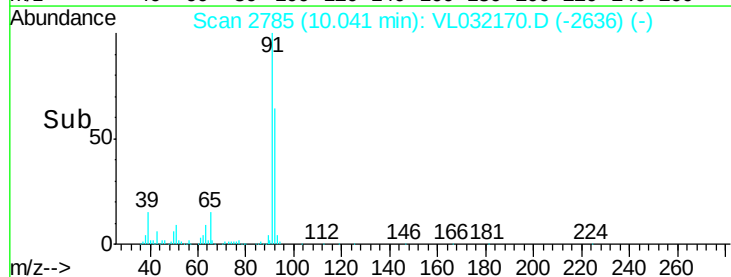
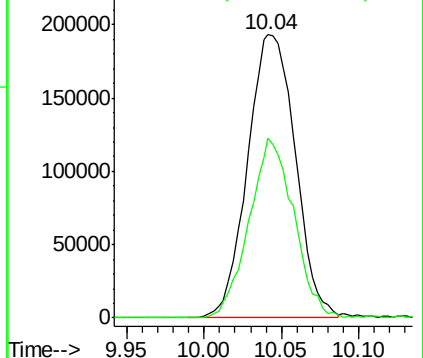
91 100

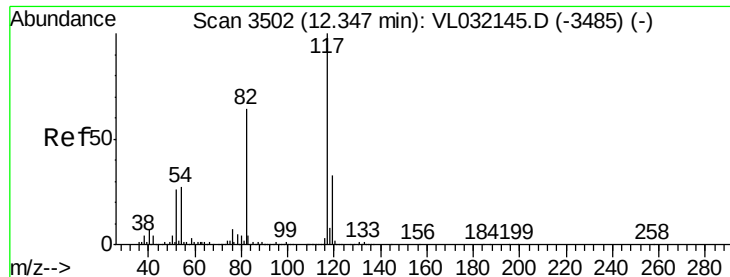
92 59.5 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

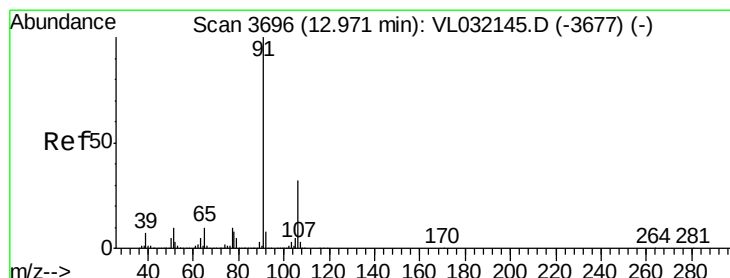
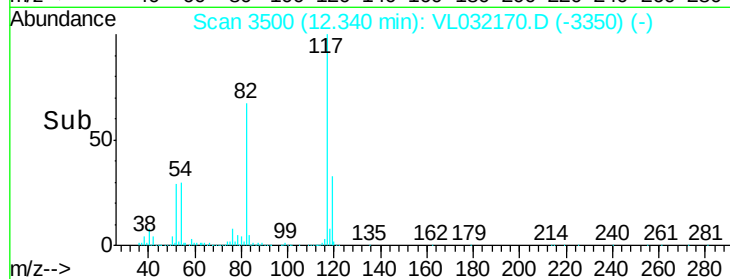
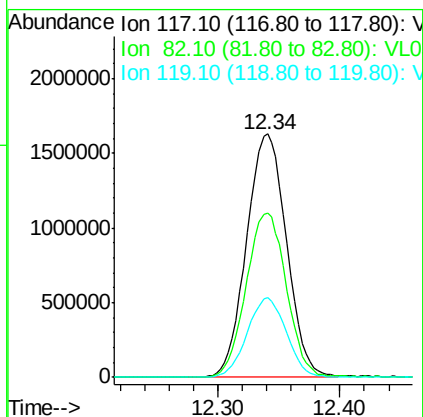
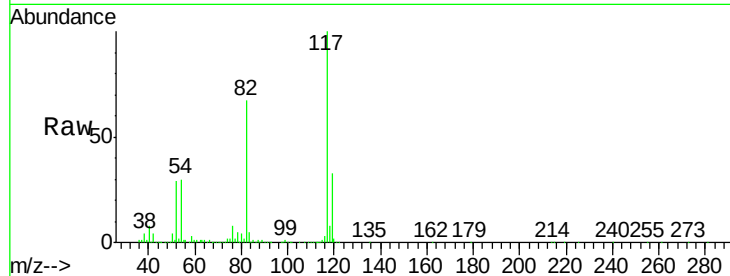




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.34 min Scan# 3500
Delta R.T. -0.02 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

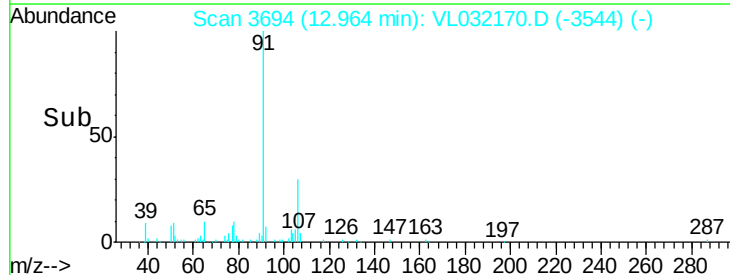
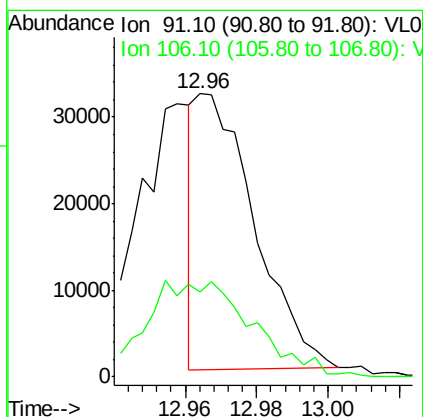
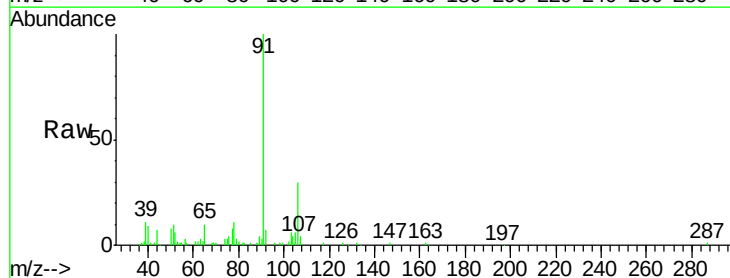
Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-C-INDOORDL

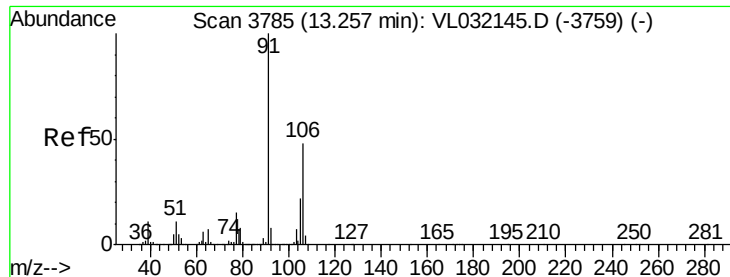
Tgt Ion:117 Resp: 3690389
Ion Ratio Lower Upper
117 100
82 68.5 47.8 71.8
119 32.5 43.3 64.9#



#58
Ethyl Benzene
Concen: 0.061 ppbv
RT: 12.96 min Scan# 3694
Delta R.T. -0.02 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

Tgt Ion: 91 Resp: 36196
Ion Ratio Lower Upper
91 100
106 30.3 26.5 39.7

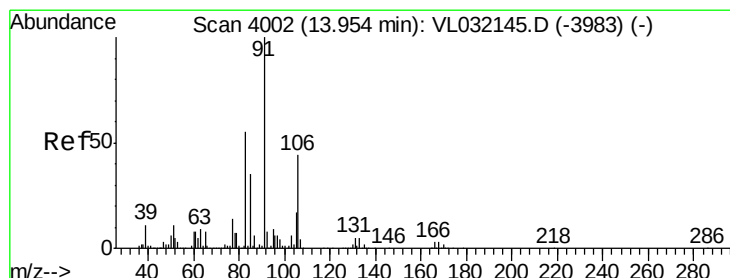
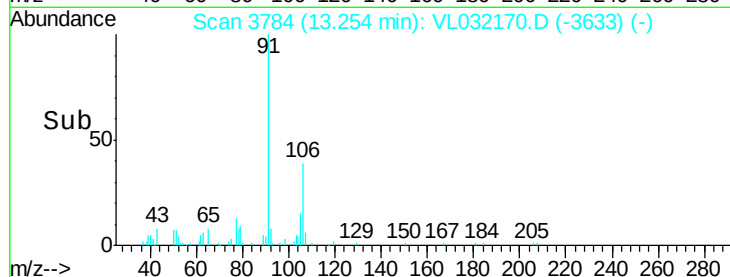
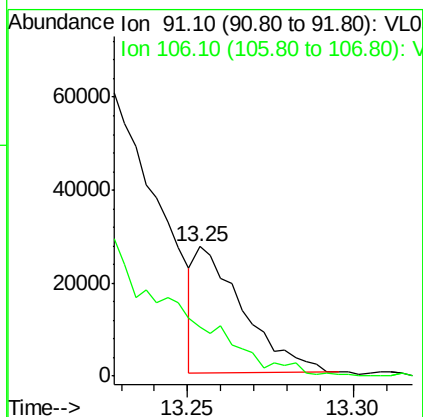
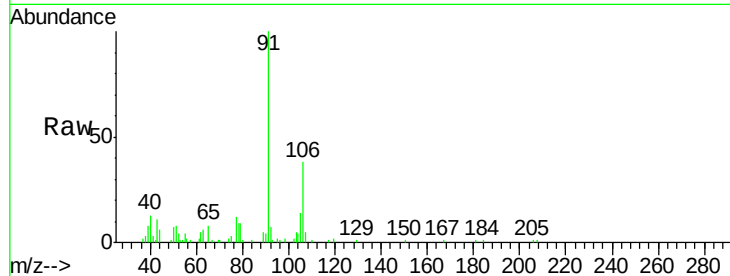




#59
m/p-Xylene
Concen: 0.057 ppbv
RT: 13.25 min Scan# 3784
Delta R.T. -0.02 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

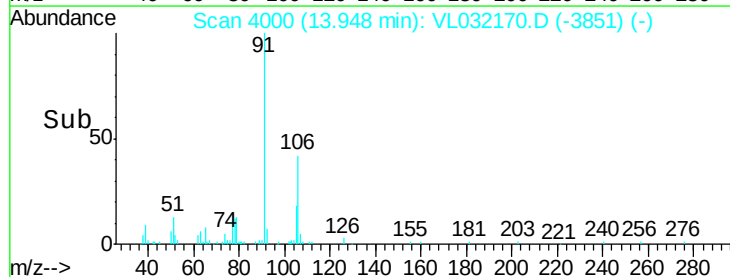
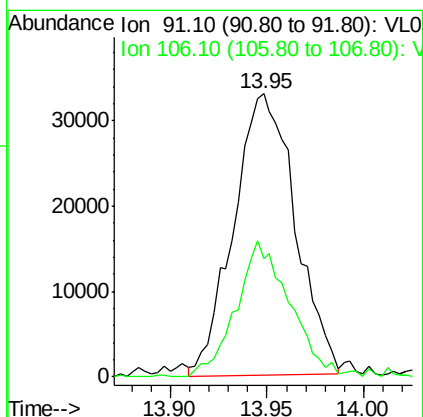
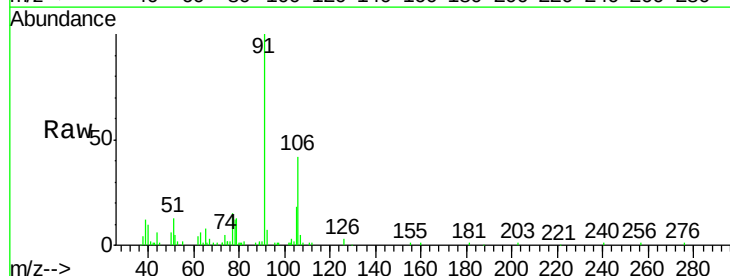
Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-C-INDOORDL

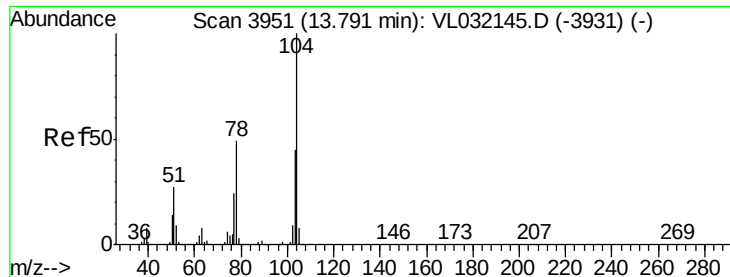
Tgt Ion: 91 Resp: 27326
Ion Ratio Lower Upper
91 100
106 0.0 38.6 58.0#



#60
o-Xylene
Concen: 0.154 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.02 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

Tgt Ion: 91 Resp: 73050
Ion Ratio Lower Upper
91 100
106 42.7 23.3 69.8





#61

Styrene

Concen: 0.040 ppbv

RT: 13.78 min Scan# 3947

Delta R.T. -0.03 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

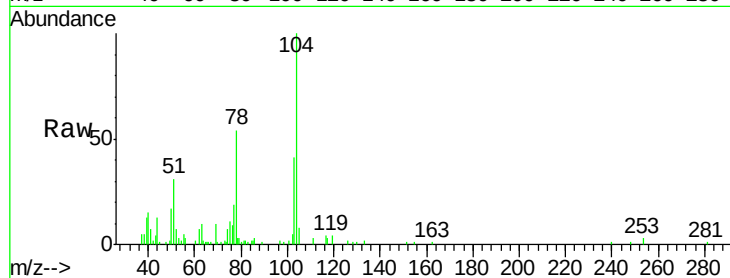
Tgt Ion: 104 Resp: 15717

Ion Ratio Lower Upper

104 100

78 134.9 37.9 56.9#

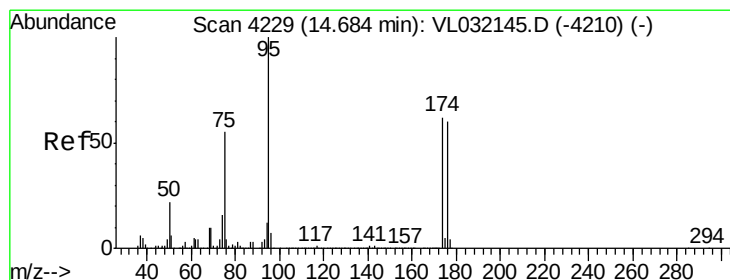
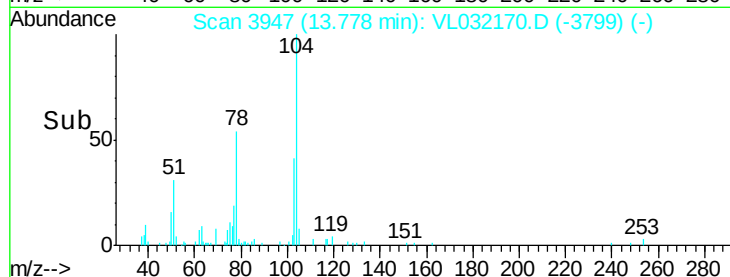
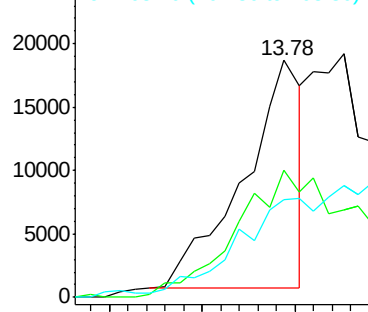
103 0.0 36.6 55.0#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.845 ppbv

RT: 14.67 min Scan# 4226

Delta R.T. -0.02 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

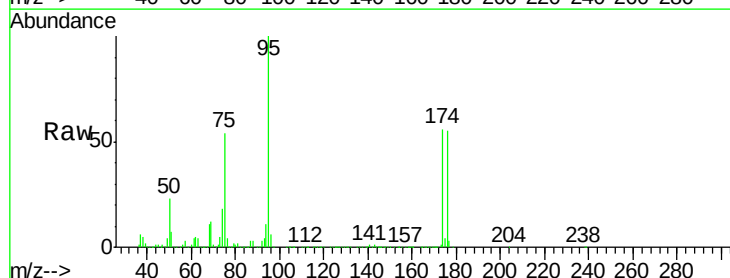
Tgt Ion: 95 Resp: 2777258

Ion Ratio Lower Upper

95 100

174 56.9 52.1 78.1

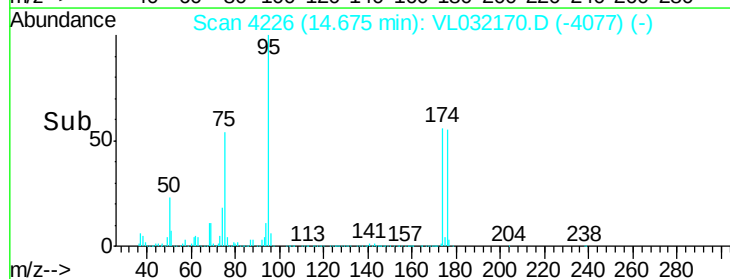
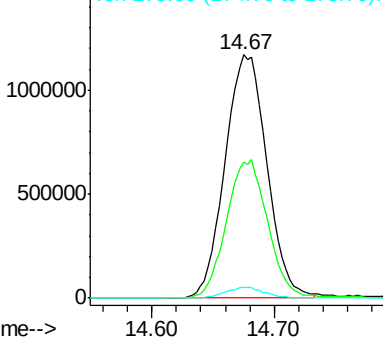
175 4.1 4.0 6.0

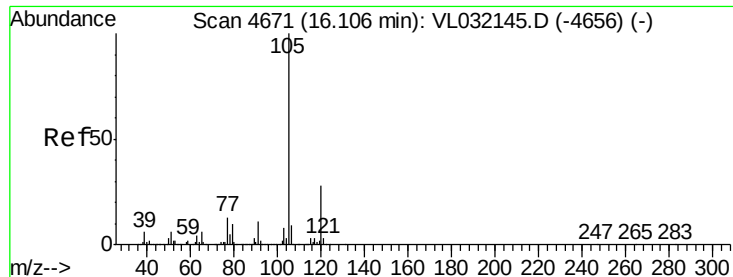


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.046 ppbv

RT: 16.10 min Scan# 4670

Delta R.T. -0.02 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

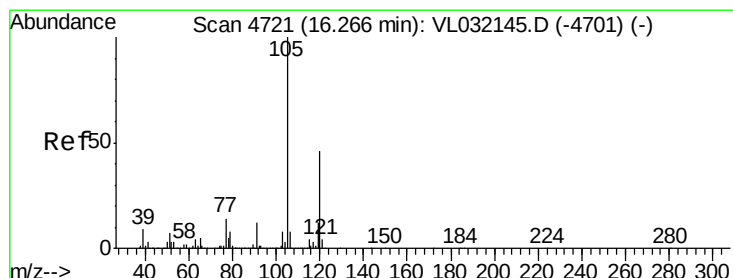
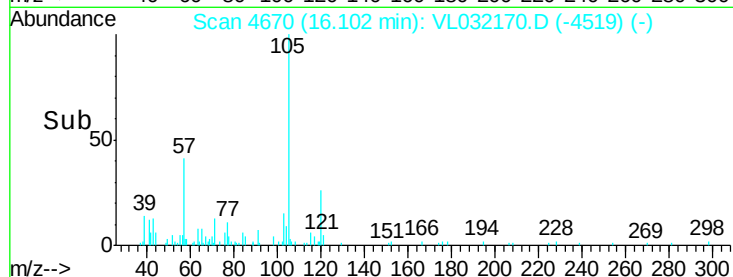
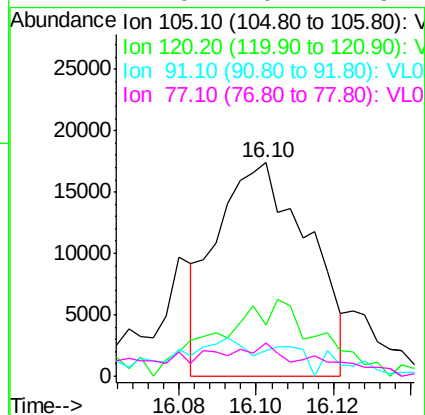
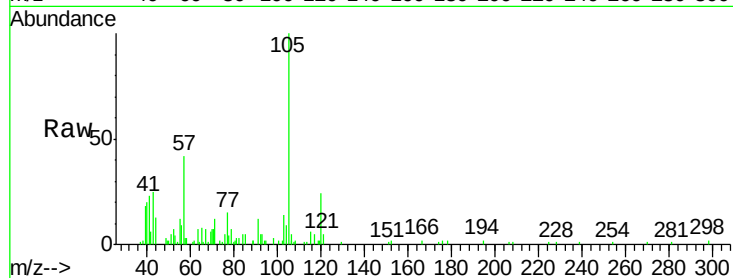
Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

Tgt Ion:	105	Resp:	28513
Ion Ratio	Lower	Upper	
105	100		
120	42.5	24.3	36.5#
91	22.8	9.4	14.0#
77	17.0	10.2	15.2#



#73

1,3,5-Trimethylbenzene

Concen: 0.063 ppbv

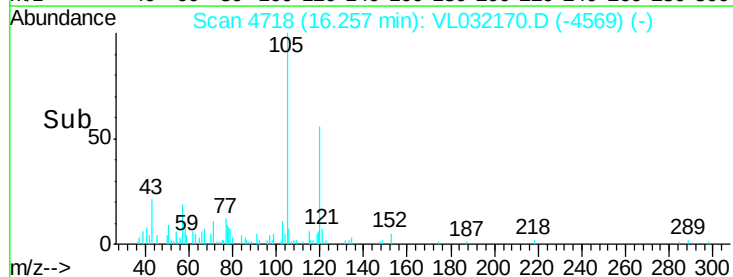
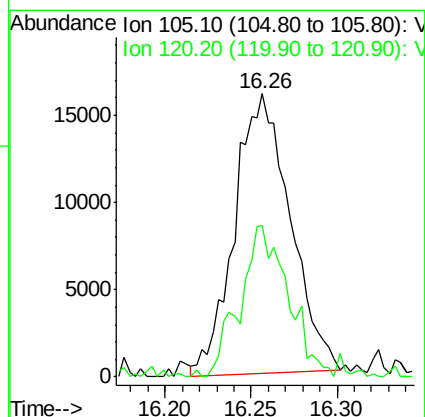
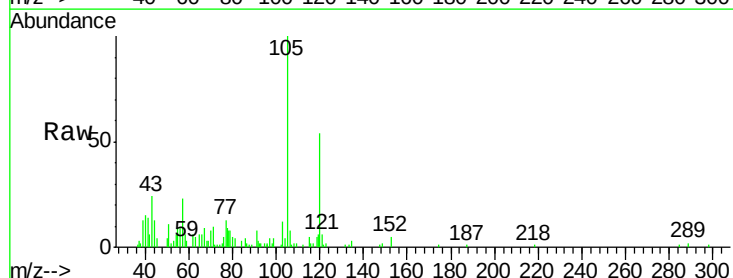
RT: 16.26 min Scan# 4718

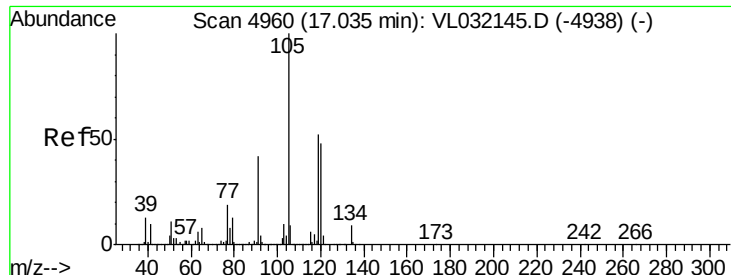
Delta R.T. -0.02 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Tgt Ion:	105	Resp:	36157
Ion Ratio	Lower	Upper	
105	100		
120	55.1	38.6	57.8





#74

1,2,4-Trimethylbenzene

Concen: 0.166 ppbv

RT: 17.03 min Scan# 4957

Delta R.T. -0.02 min

Lab File: VL032170.D

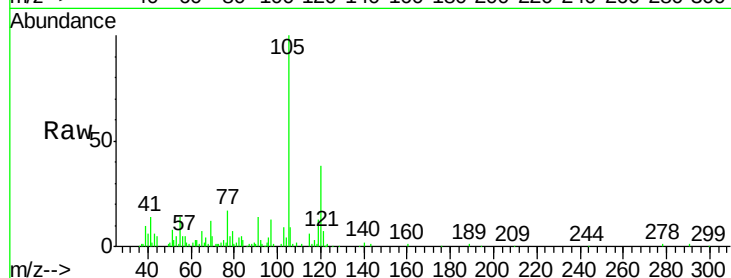
Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL



Tgt Ion:105 Resp: 96718

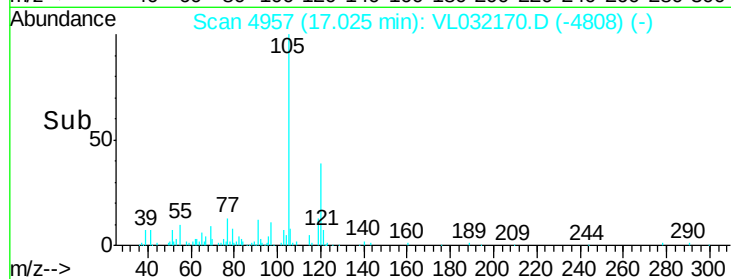
Ion Ratio Lower Upper

105 100

120 37.9 38.8 58.2#

91 12.6 33.6 50.4#

77 16.2 16.0 24.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

