

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032159.D
 Acq On : 30 Jun 2018 7:15
 Operator : SY/AP
 Sample : J3601-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-A-INDOOR

Manual Integrations
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 7/2/2018 4:25:36 PM

Quant Time: Jul 02 12:09:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 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	1498512	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3875584	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3513700	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.68	95	2631046	9.80	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	145583	0.74	ppbv	96
4) Chloromethane	3.23	50	62275	0.64	ppbv	100
9) Propene	3.11	41	100231m	1.17	ppbv	
10) Heptane	8.34	43	97664m	0.39	ppbv	
11) Trichlorofluoromethane	4.07	101	62022m	0.29	ppbv	
13) Ethanol	3.72	45	1990154	76.93	ppbv	100
15) Acetone	3.97	43	2450722m	13.99	ppbv	
19) Isopropyl Alcohol	4.11	45	285555m	1.96	ppbv	
20) Methylene Chloride	4.49	84	85717m	1.34	ppbv	
26) Hexane	5.86	57	138408	0.83	ppbv #	24
29) Chloroform	5.93	83	235607	0.97	ppbv	92
34) 2-Butanone	5.41	43	196163	0.80	ppbv	97
35) Carbon Tetrachloride	7.23	117	22335m	0.08	ppbv	
36) Benzene	7.10	78	76556	0.20	ppbv	96
37) 1,2-Dichloroethane	6.50	62	75179	0.40	ppbv	100
41) Tetrahydrofuran	6.25	42	60125	0.41	ppbv	96
50) 4-Methyl-2-Pentanone	8.98	43	86630	0.21	ppbv	100
52) Tetrachloroethene	11.48	164	17932m	0.13	ppbv	
53) Toluene	10.04	91	1511989	3.33	ppbv	99
58) Ethyl Benzene	12.96	91	324383	0.57	ppbv	91
59) m/p-Xylene	13.22	91	518931m	1.14	ppbv	
60) o-Xylene	13.95	91	215266	0.48	ppbv	94
61) Styrene	13.78	104	61237	0.17	ppbv	92
74) 1,2,4-Trimethylbenzene	17.03	105	135264m	0.24	ppbv	

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

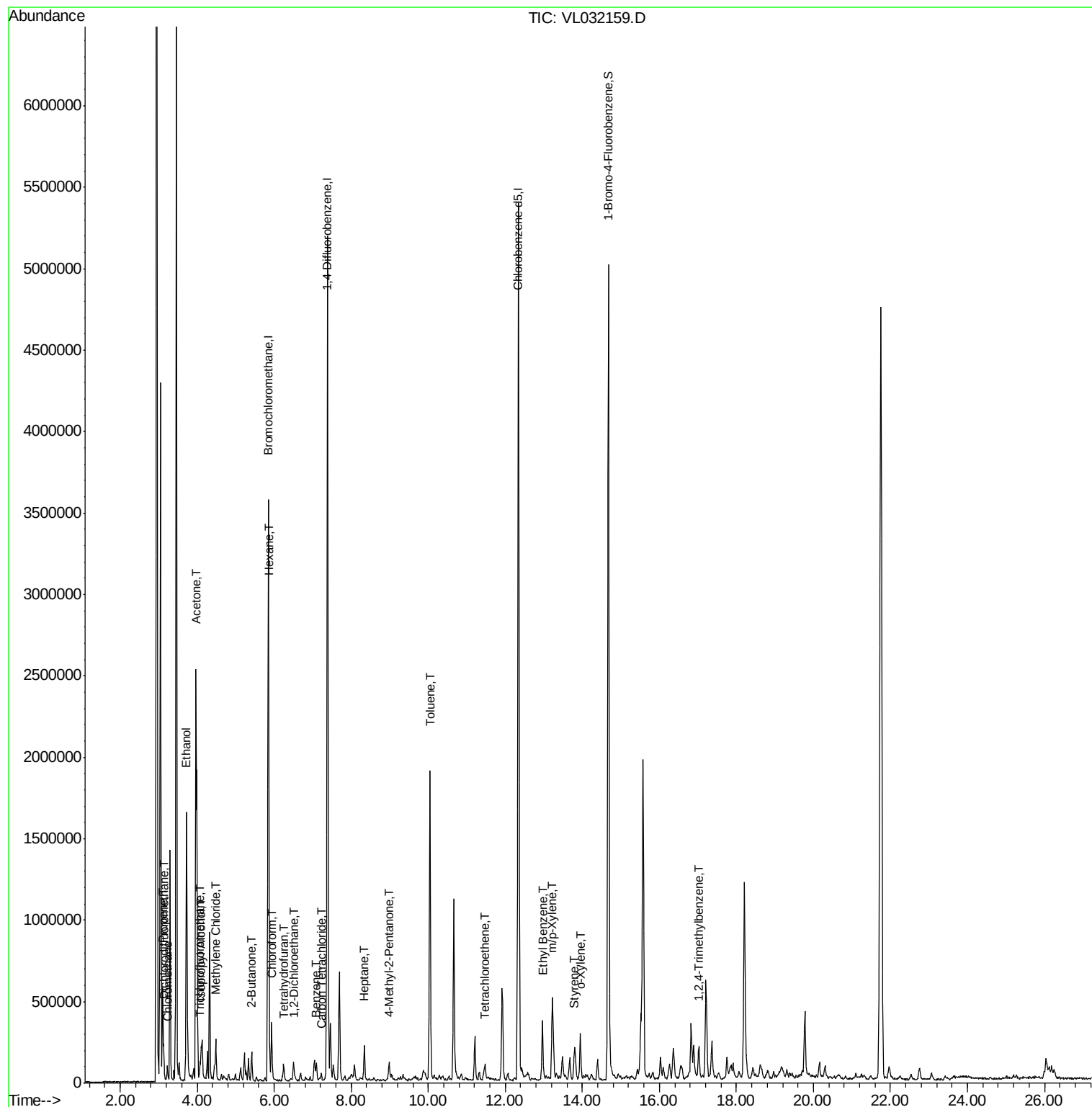
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062918\
Data File : VL032159.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

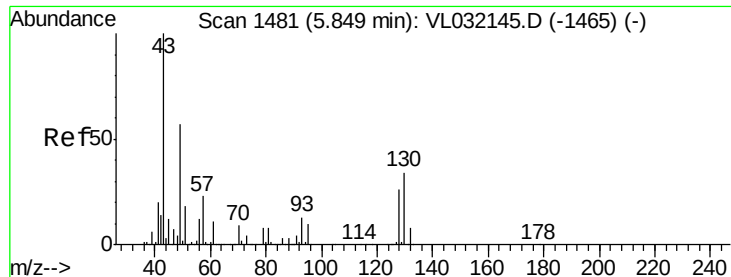
Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-INDOOR

Quant Time: Jul 02 12:09:16 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

Lab File: VL032159.D

Acq: 30 Jun 2018 7:15

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-A-INDOOR

Tot Ion: 49 Resp: 1498512

Ion Ratio Lower Upper

49 100

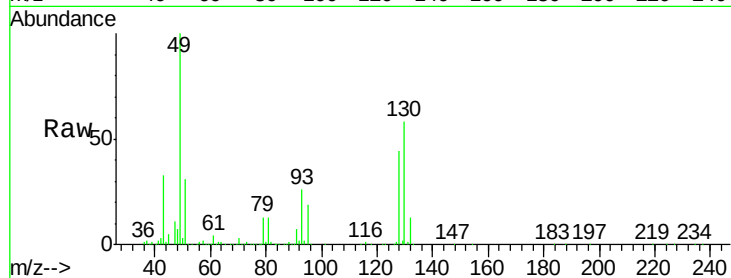
128 45.0 23.4 70.0

130 57.8 30.3 90.9

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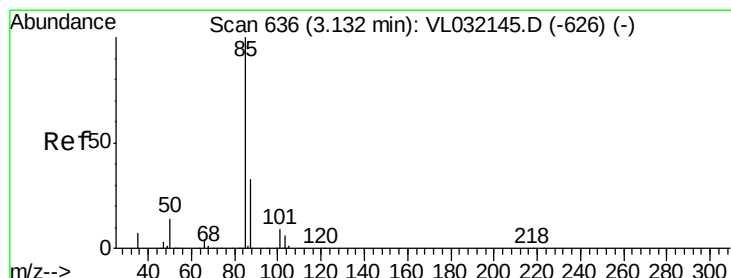
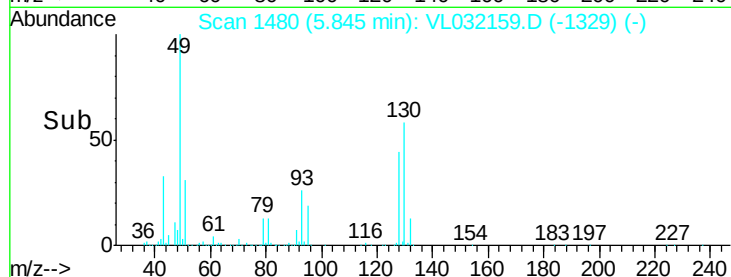
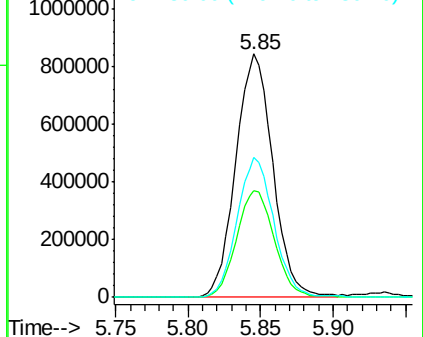
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.74 ppbv

RT: 3.13 min Scan# 637

Delta R.T. -0.01 min

Lab File: VL032159.D

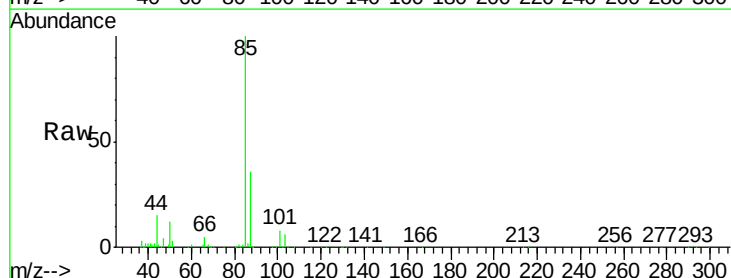
Acq: 30 Jun 2018 7:15

Tgt Ion: 85 Resp: 145583

Ion Ratio Lower Upper

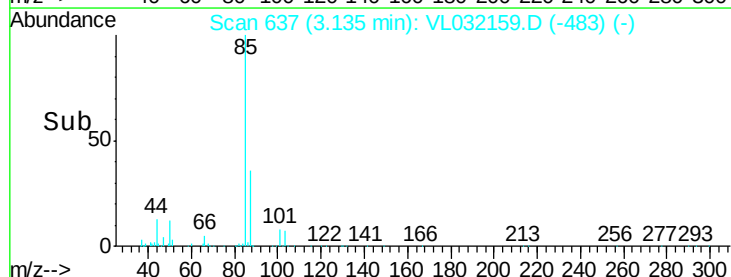
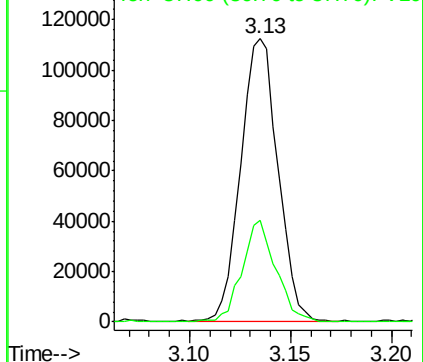
85 100

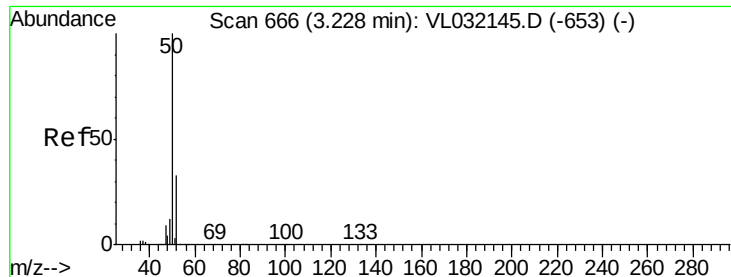
87 35.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.64 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032159.D

Acq: 30 Jun 2018 7:15

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-A-INDOOR

Tot Ion: 50 Resp: 62275

Ion Ratio Lower Upper

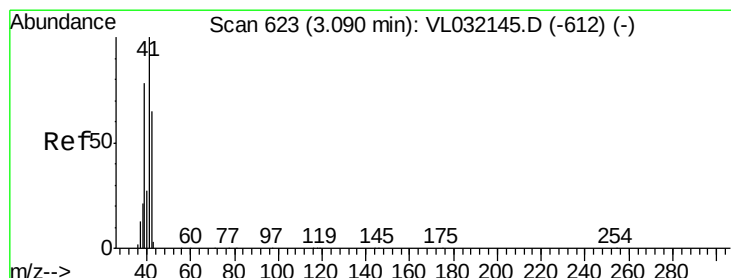
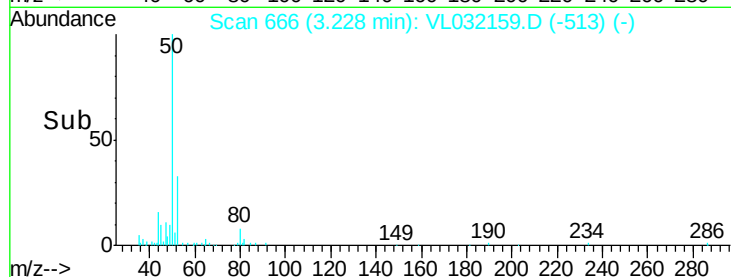
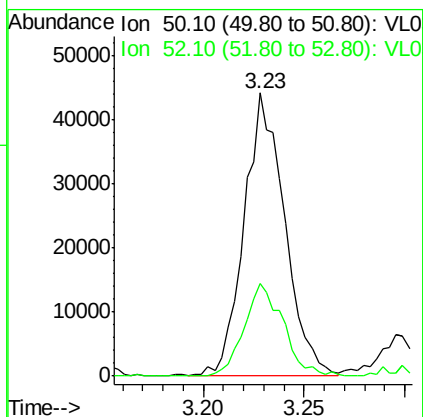
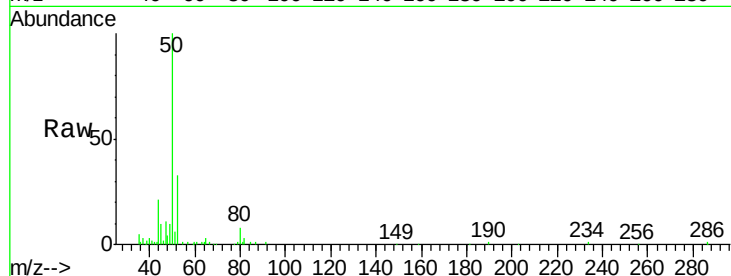
50 100

52 32.7 26.0 39.0

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#9

Propene

Concen: 1.17 ppbv m

RT: 3.11 min Scan# 628

Delta R.T. 0.01 min

Lab File: VL032159.D

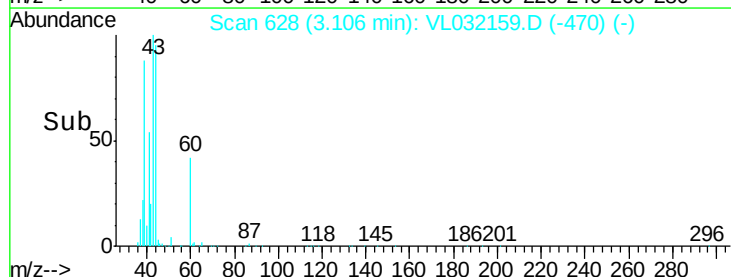
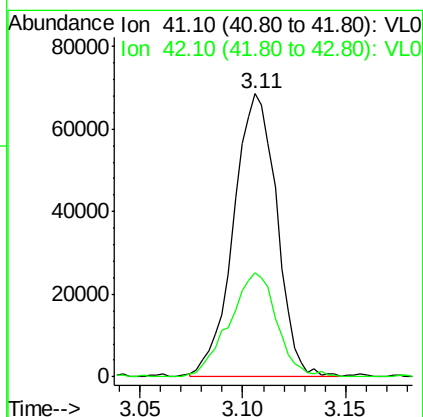
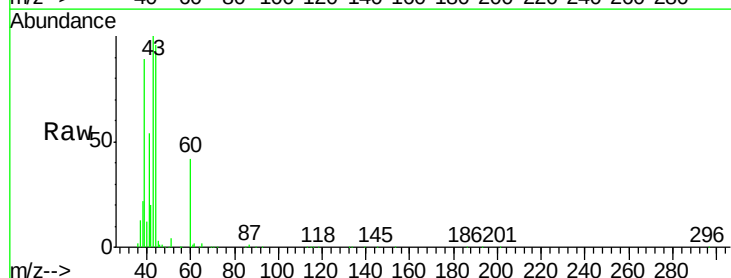
Acq: 30 Jun 2018 7:15

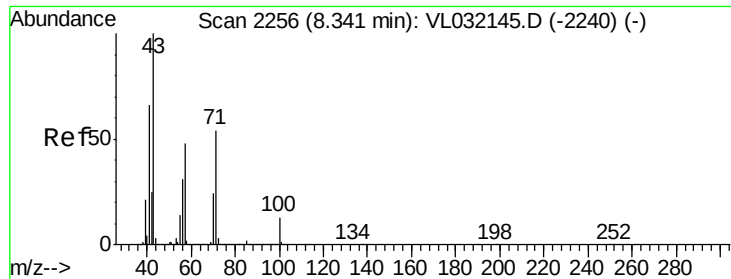
Tgt Ion: 41 Resp: 100231

Ion Ratio Lower Upper

41 100

42 251.1 56.2 84.4#





#10

Heptane

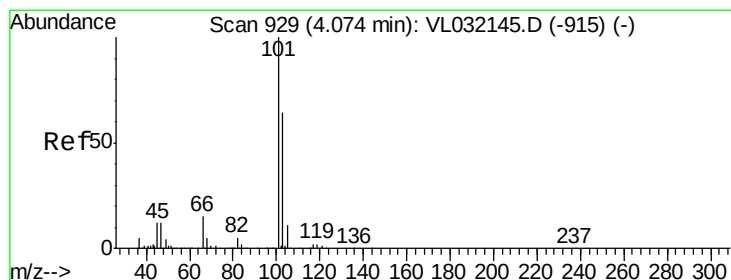
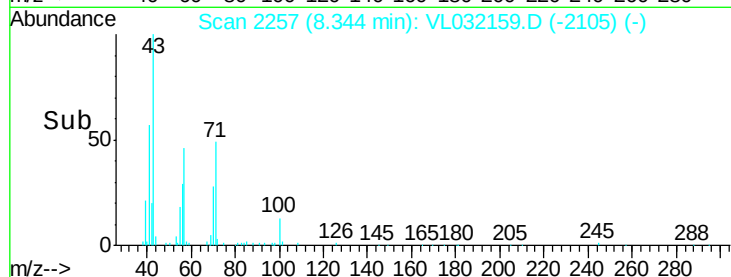
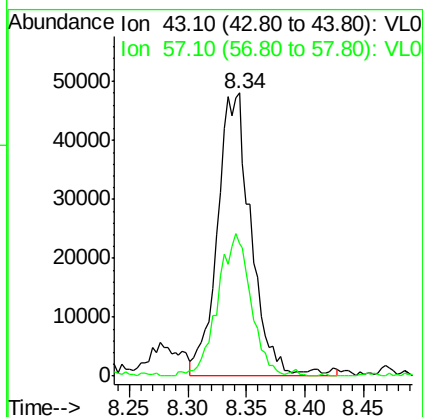
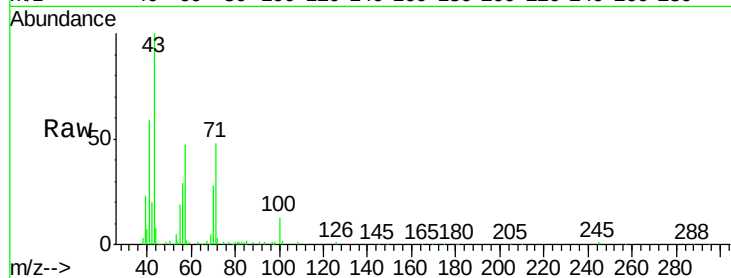
Concen: 0.39 ppbv m
RT: 8.34 min Scan# 2257
Delta R.T. -0.01 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-INDOOR

Tot Ion: 43 Resp: 97664
Ion Ratio Lower Upper
43 100
57 0.0 39.8 59.8#

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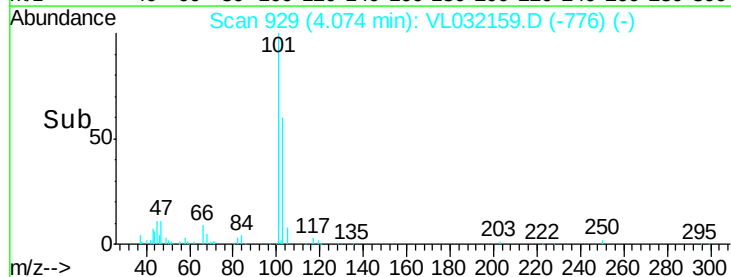
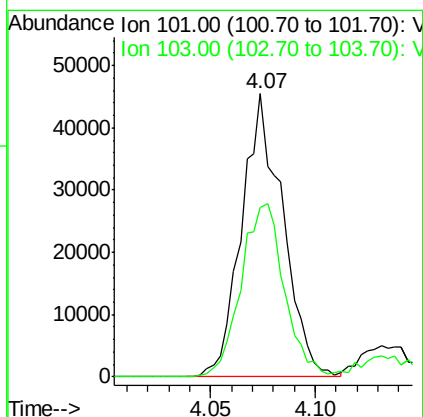
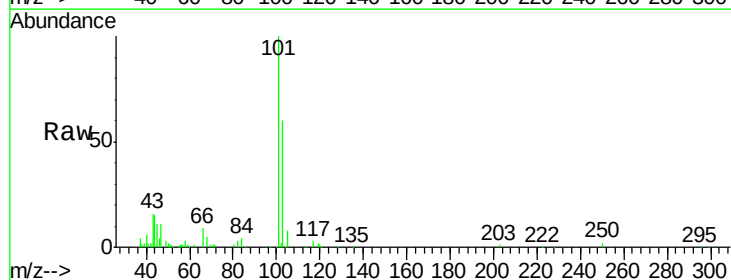


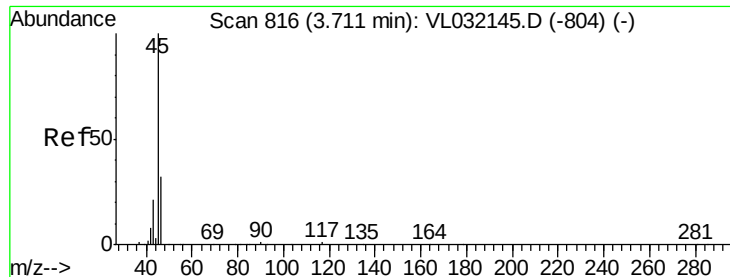
#11

Trichlorofluoromethane

Concen: 0.29 ppbv m
RT: 4.07 min Scan# 929
Delta R.T. -0.01 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Tgt Ion: 101 Resp: 62022
Ion Ratio Lower Upper
101 100
103 59.7 51.4 77.0





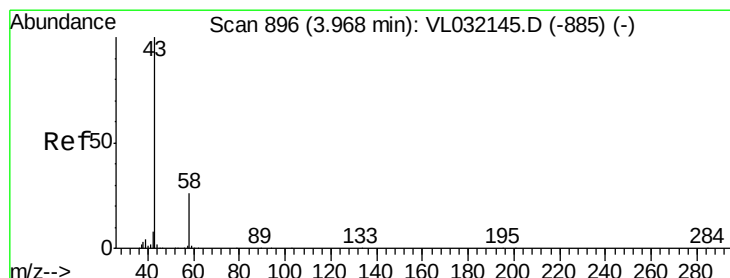
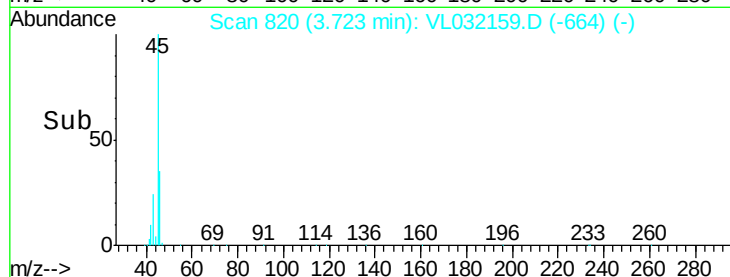
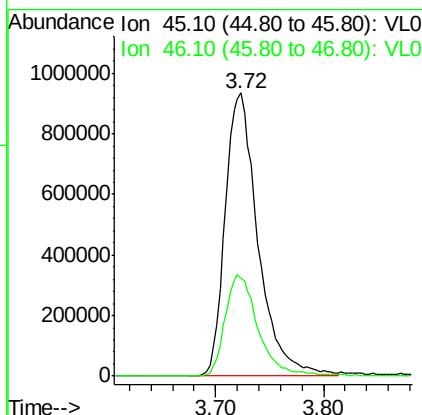
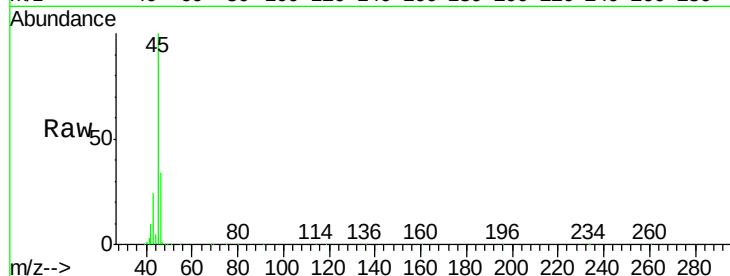
#13
Ethanol
Concen: 76.93 ppbv
RT: 3.72 min Scan# 820
Delta R.T. 0.00 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-INDOOR

Tot Ion: 45 Resp: 1990154
Ion Ratio Lower Upper
45 100
46 36.4 14.6 58.4

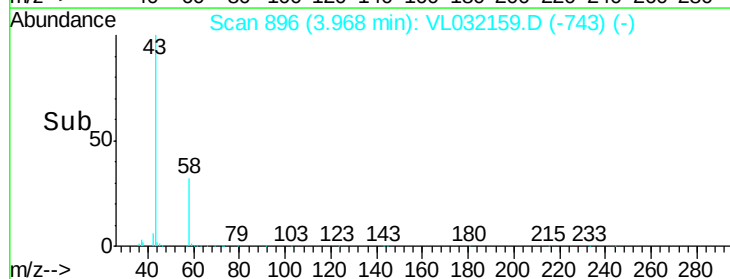
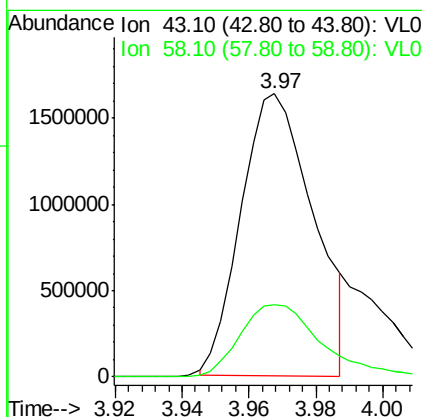
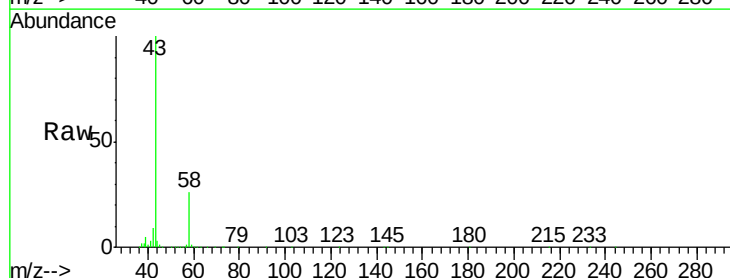
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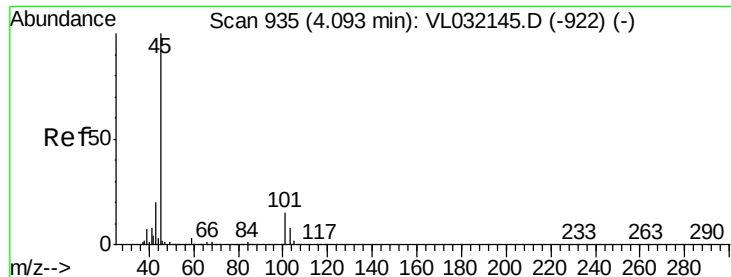
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#15
Acetone
Concen: 13.99 ppbv m
RT: 3.97 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Tgt Ion: 43 Resp: 2450722
Ion Ratio Lower Upper
43 100
58 29.2 21.4 32.0





#19

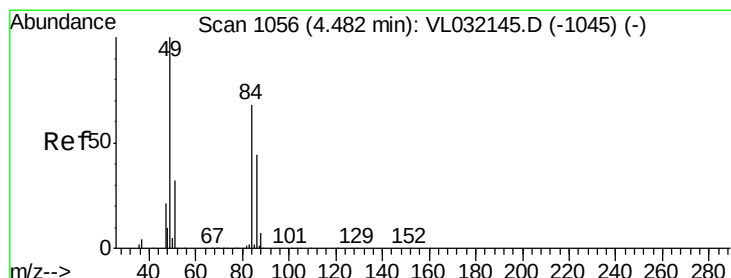
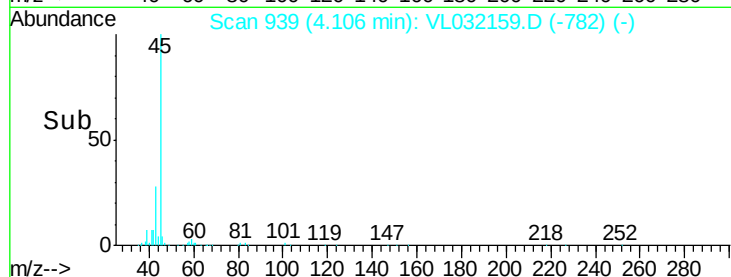
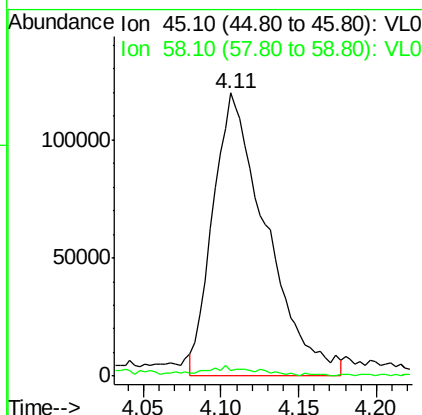
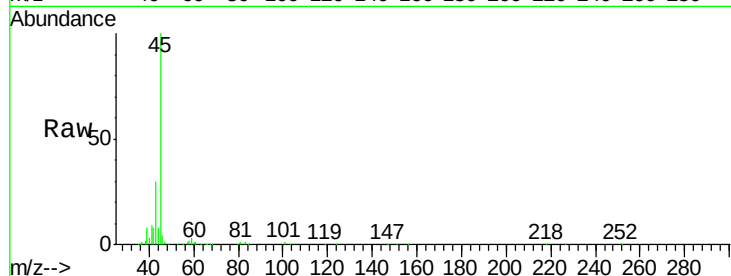
Isopropyl Alcohol
 Concen: 1.96 ppbv m
 RT: 4.11 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: VL032159.D
 Acq: 30 Jun 2018 7:15

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-A-INDOOR

Tot Ion	Ratio	Lower	Upper
45	100		
58	0.0	29.4	44.0#

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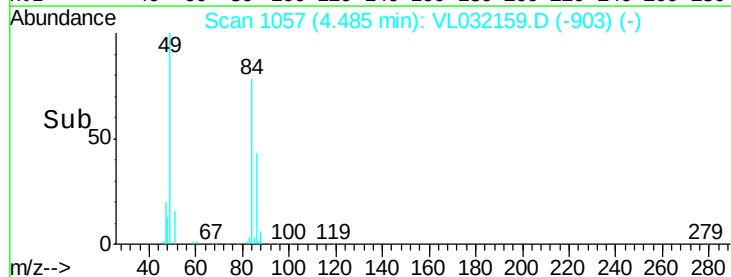
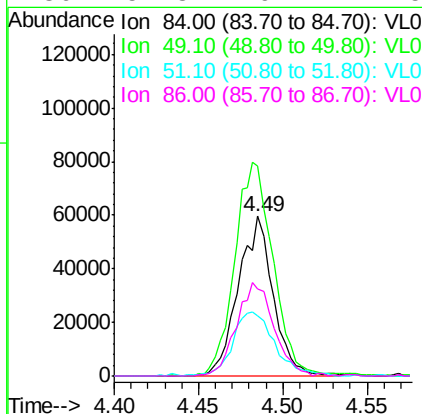
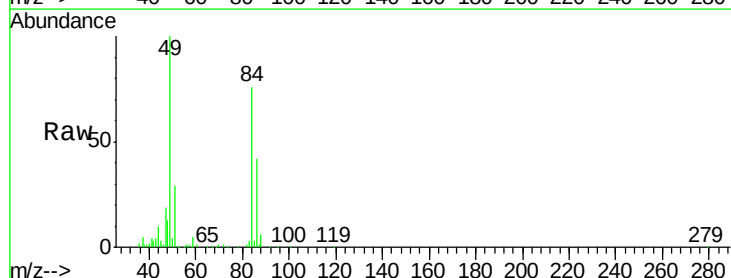
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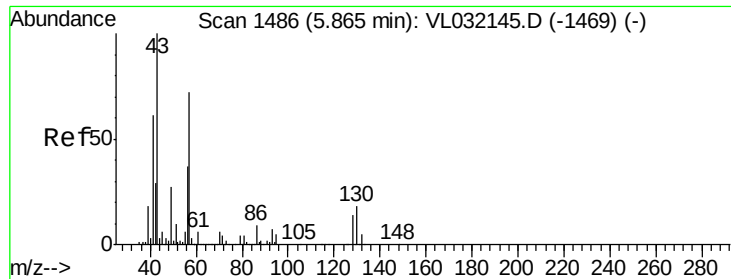


#20

Methylene Chloride
 Concen: 1.34 ppbv m
 RT: 4.49 min Scan# 1057
 Delta R.T. -0.01 min
 Lab File: VL032159.D
 Acq: 30 Jun 2018 7:15

Tgt Ion	Ratio	Lower	Upper
84	100		
49	131.0	119.6	179.4
51	37.4	36.3	54.5
86	54.8	49.7	74.5





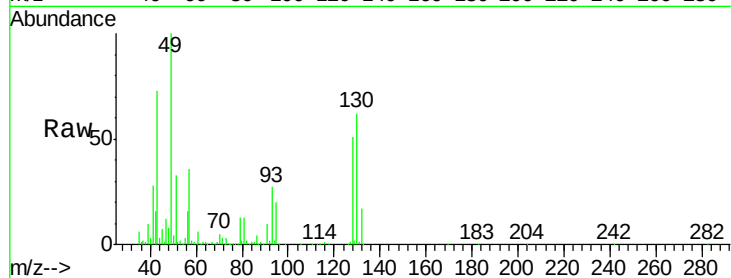
#26
Hexane
Concen: 0.83 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-INDOOR

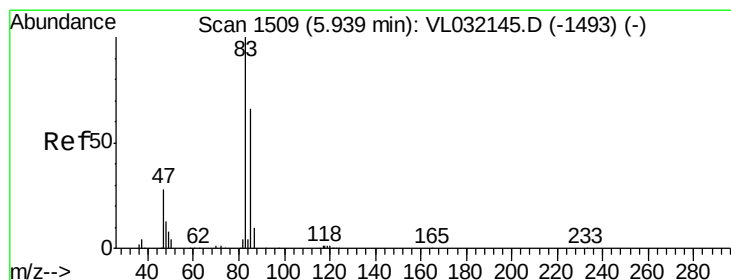
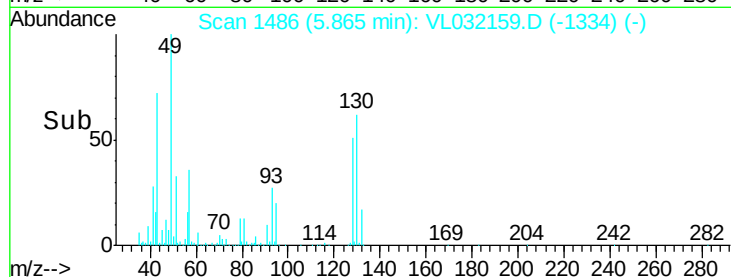
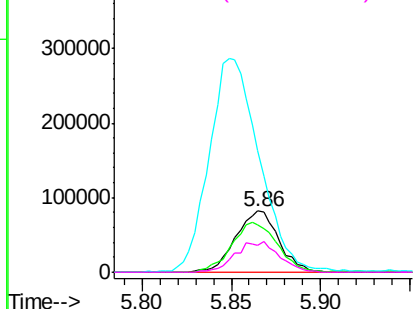
Tot Ion	Ratio	Lower	Upper
57	100		
41	85.4	68.6	103.0
43	407.3	168.6	252.8#
56	51.0	41.0	61.6

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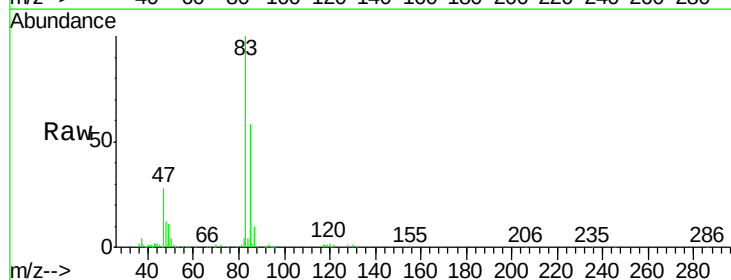


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

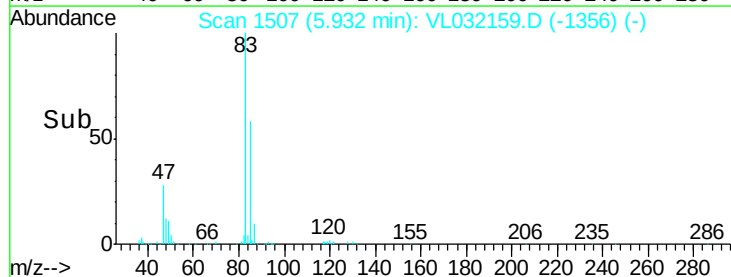
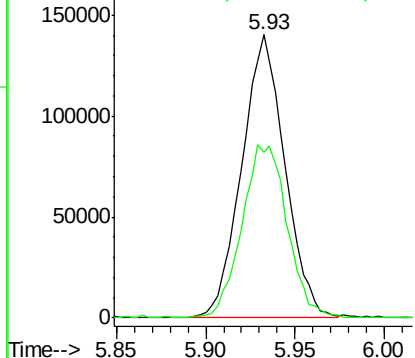


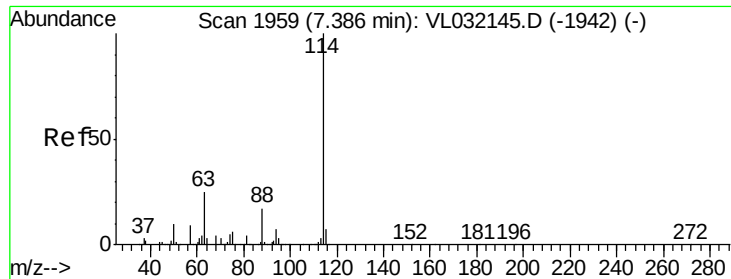
#29
Chloroform
Concen: 0.97 ppbv
RT: 5.93 min Scan# 1507
Delta R.T. -0.02 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.4	51.6	77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





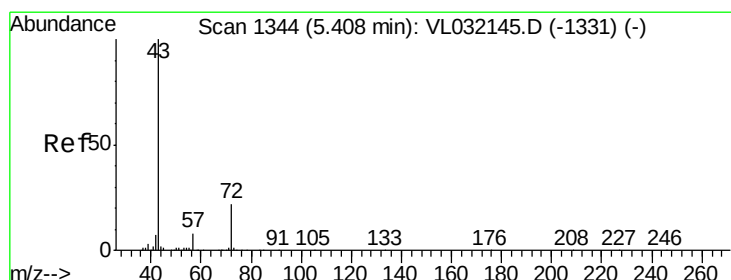
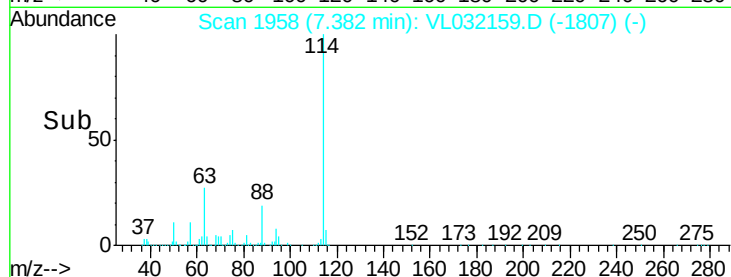
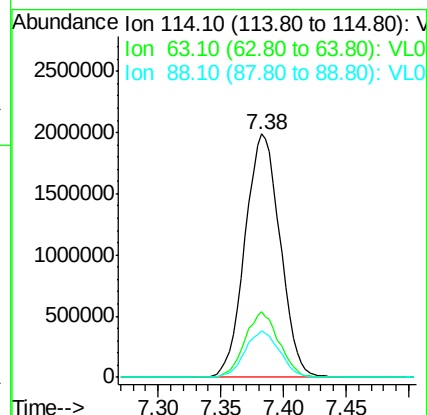
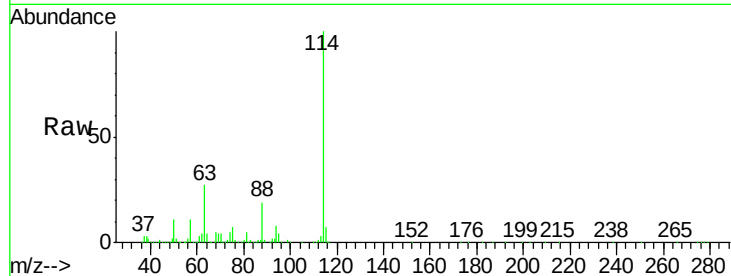
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032159.D
 Acq: 30 Jun 2018 7:15

Instrument :
 MSVOA_L
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 RESIDENT-A-INDOOR

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.2	19.1	28.7
88	18.8	13.9	20.9

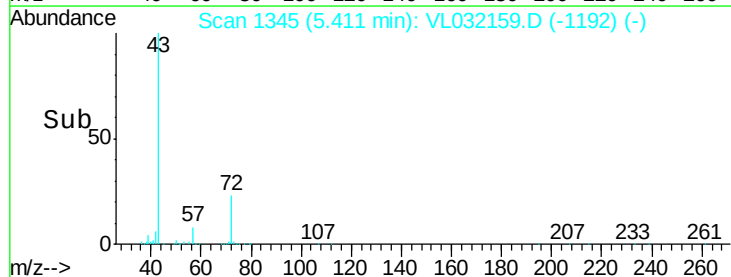
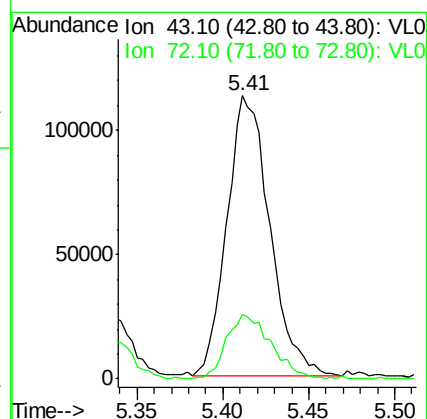
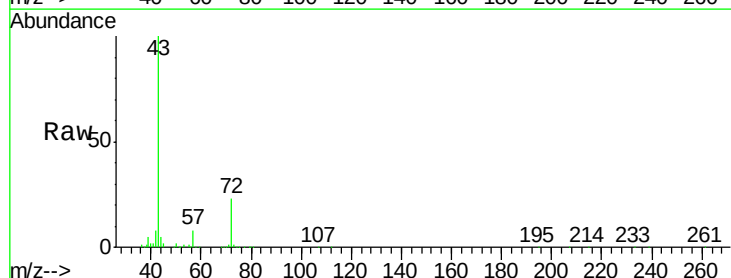
Manual Integrations
 APPROVED

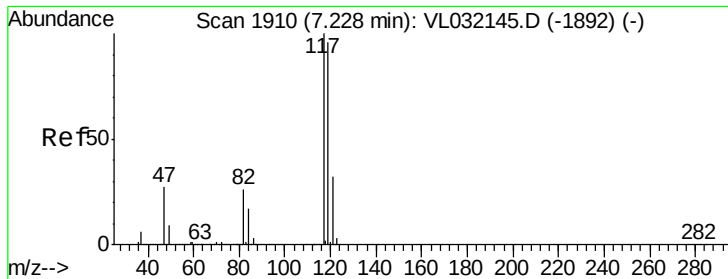
MMDadoda
 7/2/2018 4:25:36 PM



#34
 2-Butanone
 Concen: 0.80 ppbv
 RT: 5.41 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VL032159.D
 Acq: 30 Jun 2018 7:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.2	18.4	27.6





#35

Carbon Tetrachloride

Concen: 0.08 ppbv m

RT: 7.23 min Scan# 1910

Delta R.T. -0.01 min

Lab File: VL032159.D

Acq: 30 Jun 2018 7:15

Instrument :

MSVOA_L

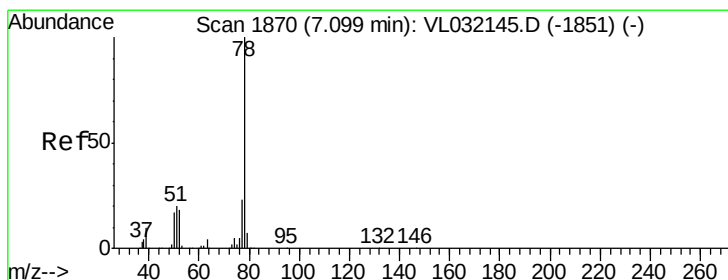
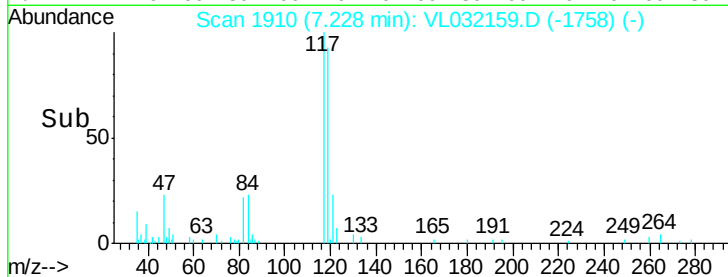
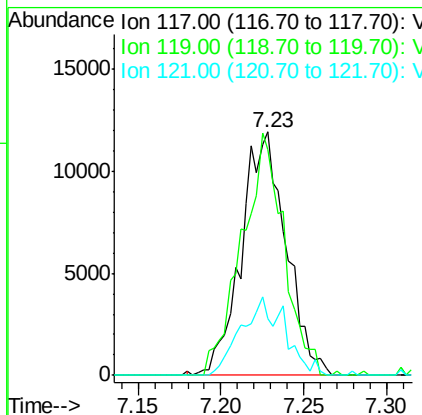
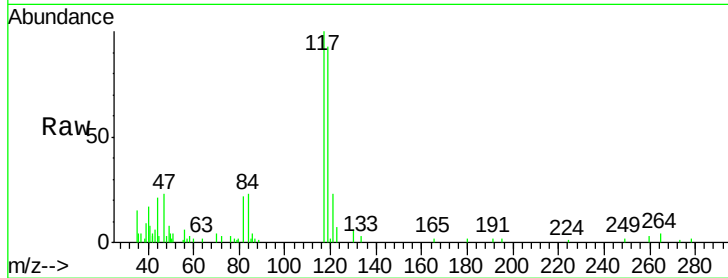
ClientSampleId :

RESIDENT-A-INDOOR

Tot Ion	Ratio	Lower	Upper
117	100		
119	92.9	74.8	112.2
121	23.3	24.0	36.0#

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#36

Benzene

Concen: 0.20 ppbv

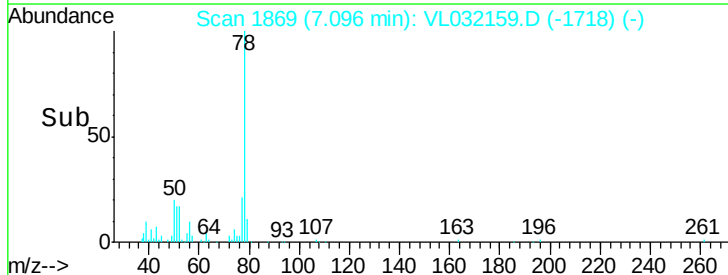
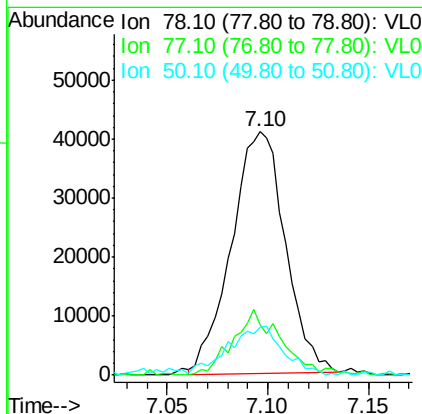
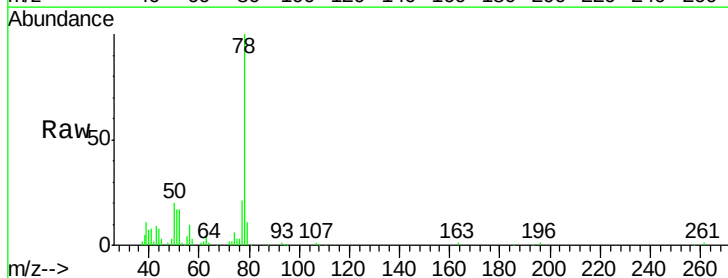
RT: 7.10 min Scan# 1869

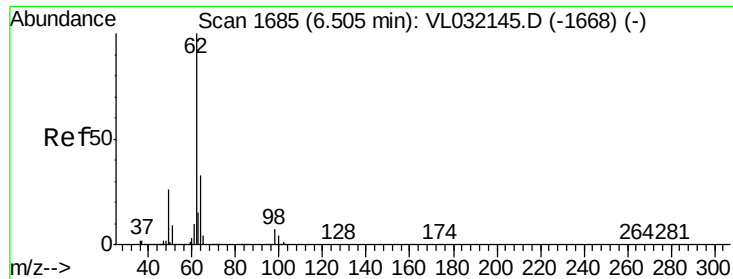
Delta R.T. -0.02 min

Lab File: VL032159.D

Acq: 30 Jun 2018 7:15

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.5	17.7	26.5
50	19.3	14.0	21.0





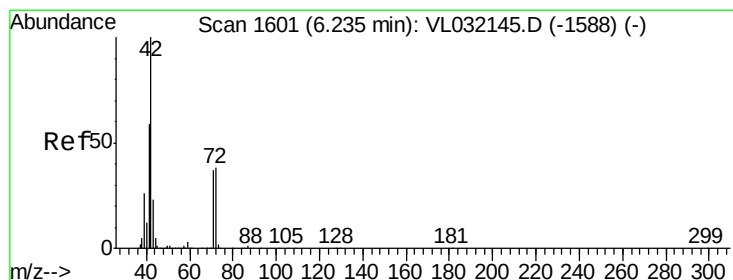
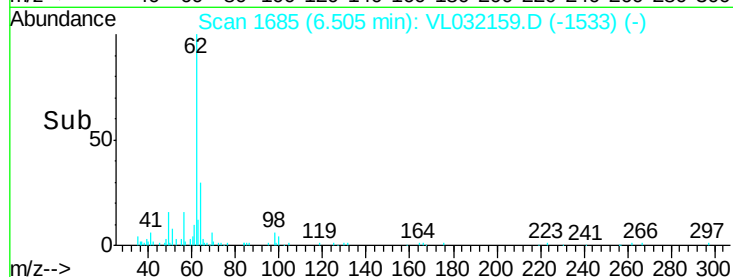
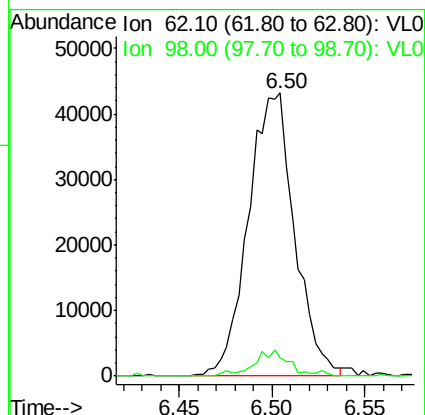
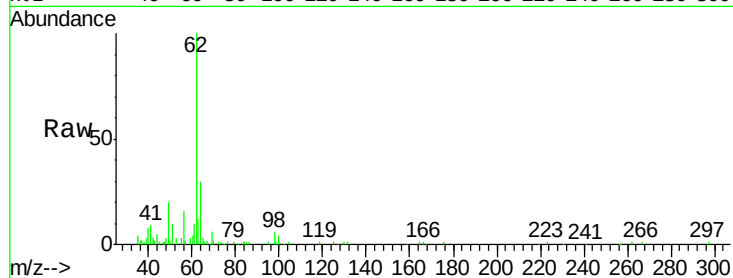
#37
 1,2-Dichloroethane
 Concen: 0.40 ppbv
 RT: 6.50 min Scan# 1685
 Delta R.T. -0.01 min
 Lab File: VL032159.D
 Acq: 30 Jun 2018 7:15

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-A-INDOOR

Tot Ion	Ratio	Resp	Lower	Upper
62	100	75179		
98	7.3		5.8	8.6

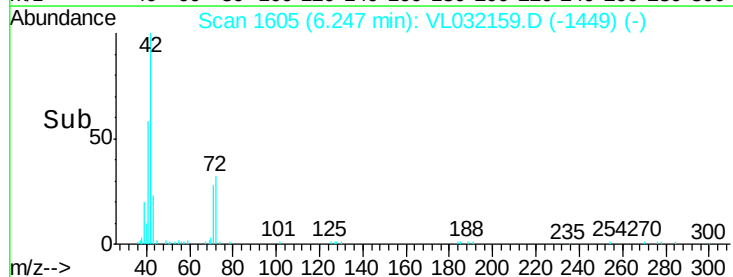
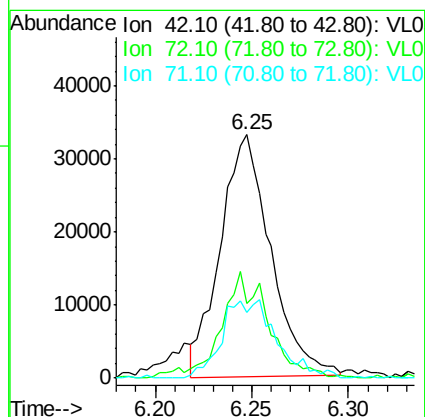
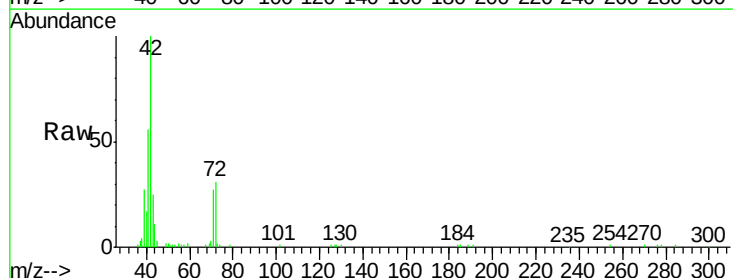
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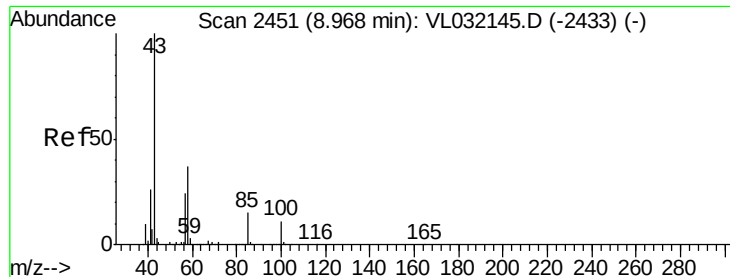
MMDadoda
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#41
 Tetrahydrofuran
 Concen: 0.41 ppbv
 RT: 6.25 min Scan# 1605
 Delta R.T. 0.00 min
 Lab File: VL032159.D
 Acq: 30 Jun 2018 7:15

Tgt Ion	Ratio	Resp	Lower	Upper
42	100	60125		
72	41.7		31.1	46.7
71	35.2		29.5	44.3





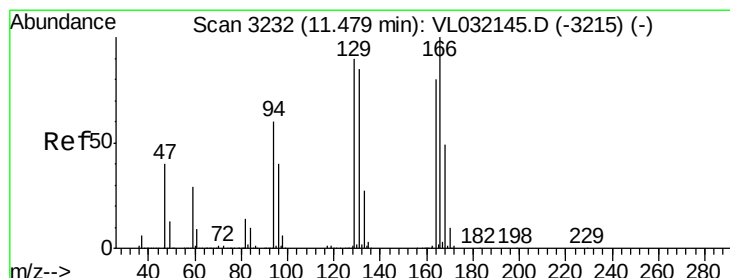
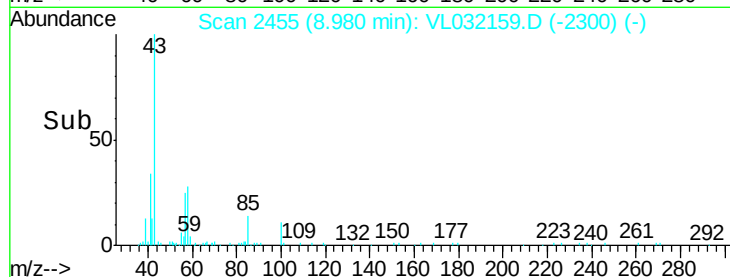
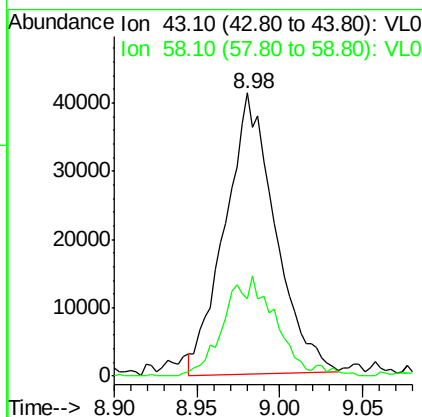
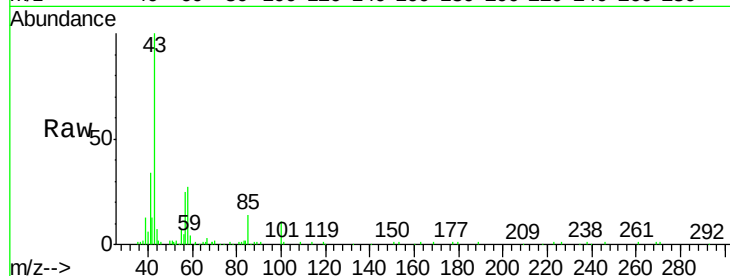
#50
4-Methyl-2-Pentanone
Concen: 0.21 ppbv
RT: 8.98 min Scan# 2455
Delta R.T. -0.00 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-INDOOR

Tot Ion	43	Resp	86630
Ion Ratio	100	Lower	Upper
43	100		
58	37.0	29.8	44.6

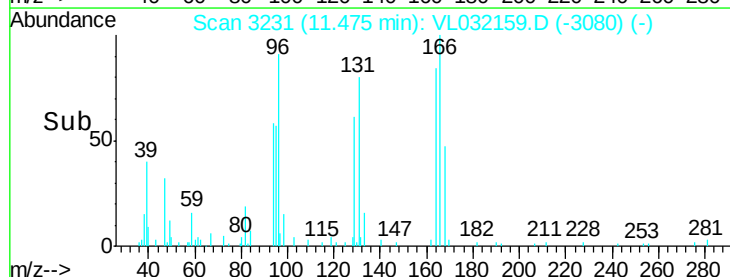
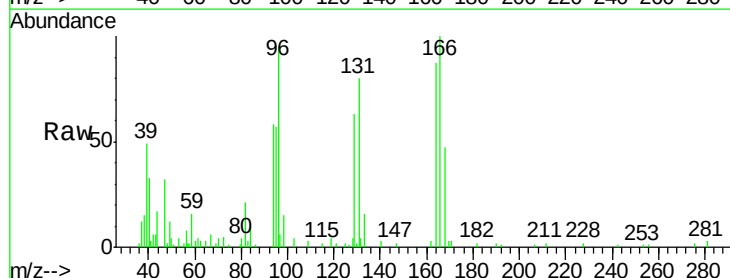
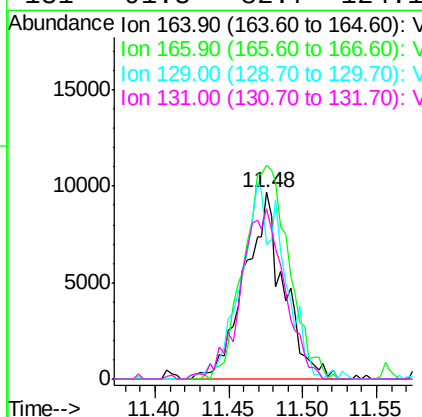
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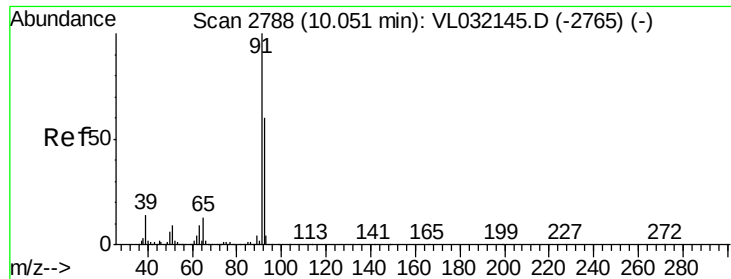
MMDadoda
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#52
Tetrachloroethene
Concen: 0.13 ppbv m
RT: 11.48 min Scan# 3231
Delta R.T. -0.02 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Tgt Ion	164	Resp	17932
Ion Ratio	100	Lower	Upper
164	100		
166	114.4	100.6	151.0
129	72.0	84.0	126.0#
131	91.3	82.7	124.1





#53

Toluene

Concen: 3.33 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032159.D

Acq: 30 Jun 2018 7:15

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-A-INDOOR

Tot Ion: 91 Resp: 1511989

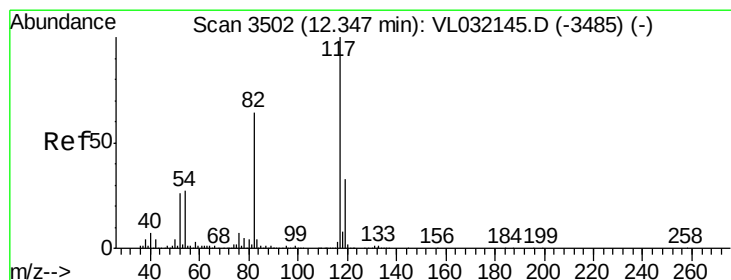
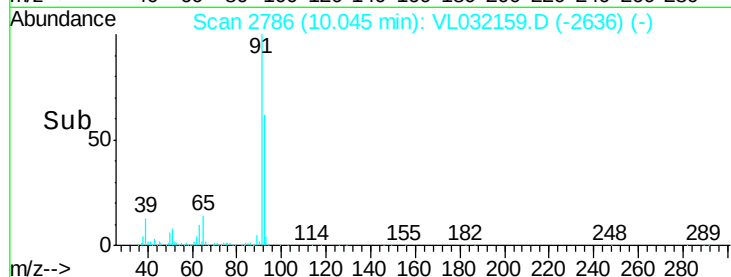
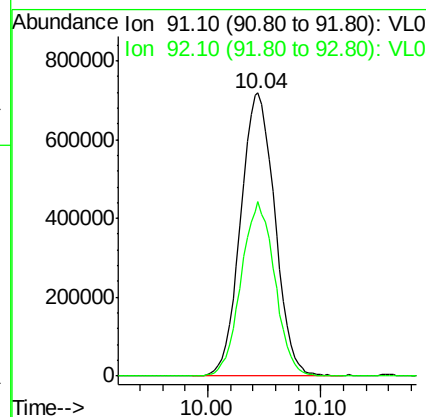
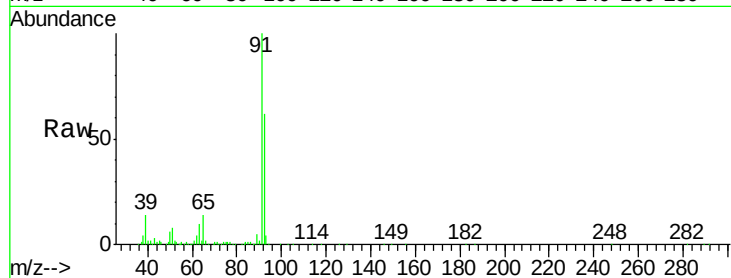
Ion Ratio Lower Upper

91 100

92 60.8 49.2 73.8

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032159.D

Acq: 30 Jun 2018 7:15

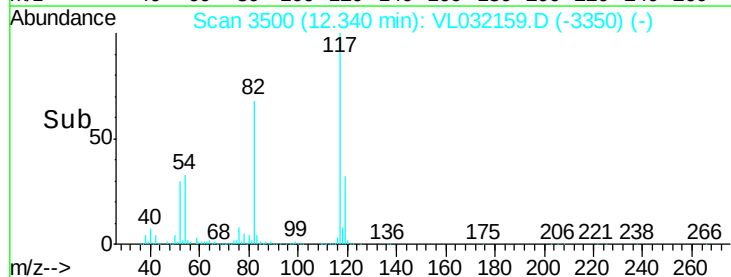
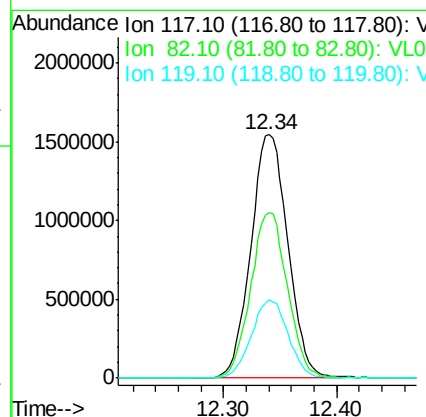
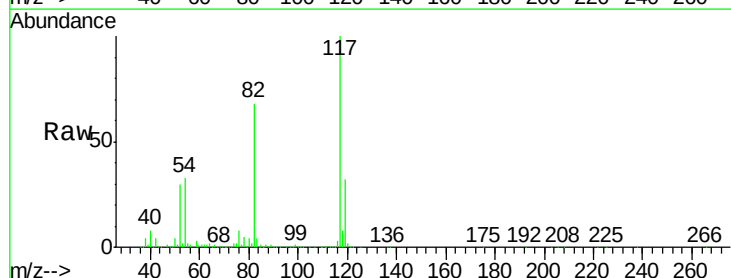
Tgt Ion: 117 Resp: 3513700

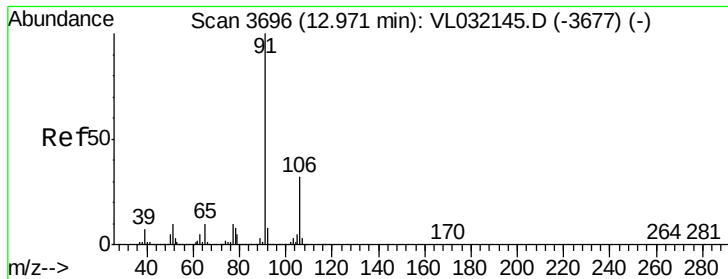
Ion Ratio Lower Upper

117 100

82 68.0 47.8 71.8

119 32.2 43.3 64.9#





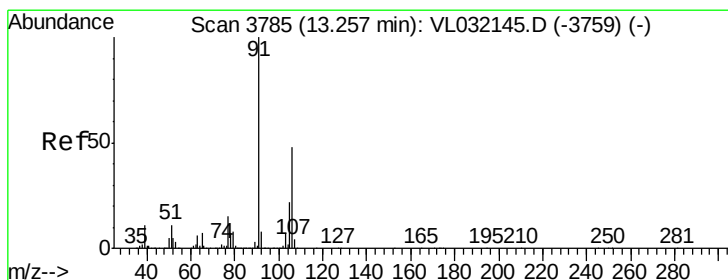
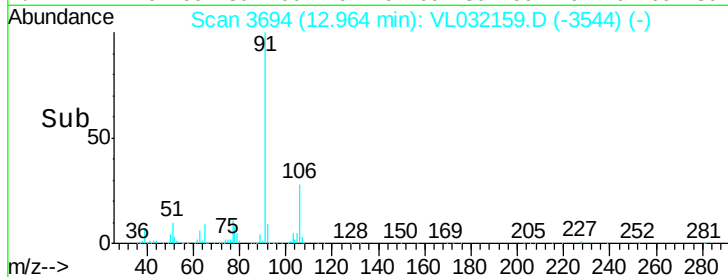
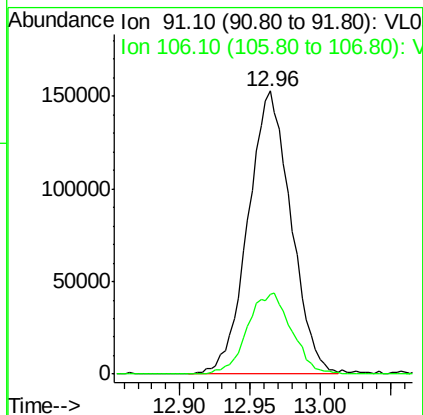
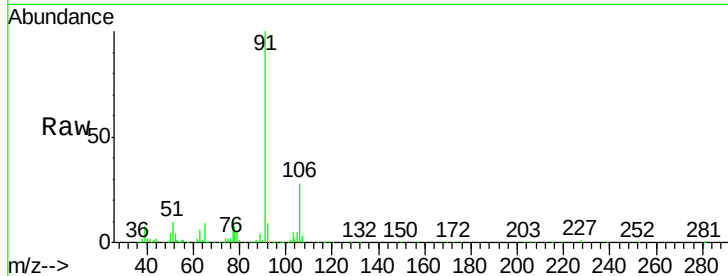
#58
Ethyl Benzene
Concen: 0.57 ppbv
RT: 12.96 min Scan# 3694
Delta R.T. -0.02 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-INDOOR

Tot Ion: 91 Resp: 324383
Ion Ratio Lower Upper
91 100
106 27.9 26.5 39.7

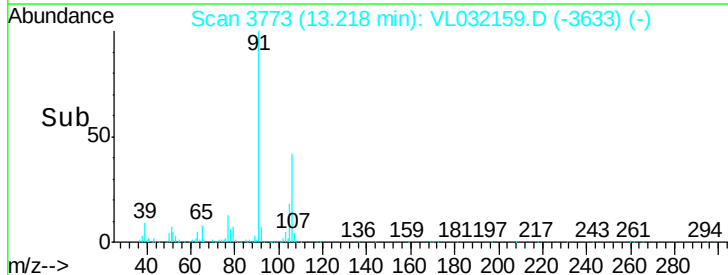
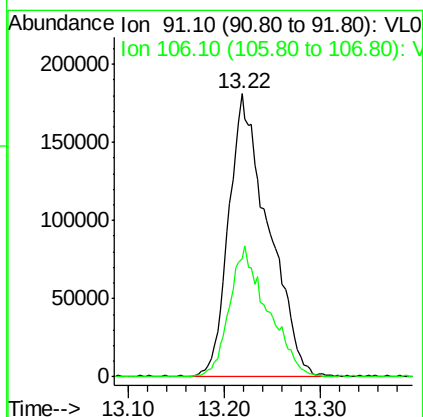
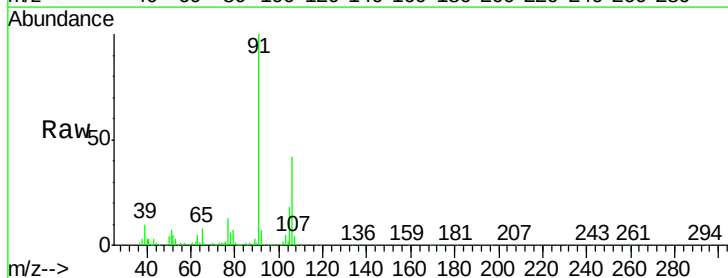
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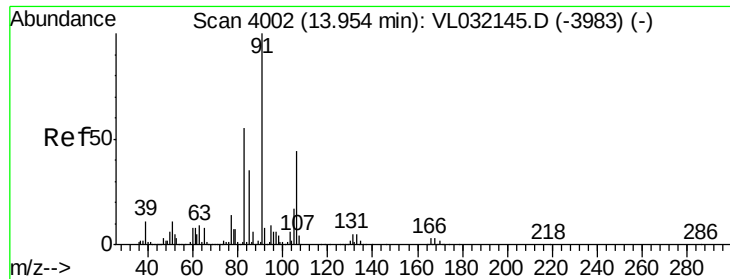
MMDadoda
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#59
m/p-Xylene
Concen: 1.14 ppbv m
RT: 13.22 min Scan# 3773
Delta R.T. -0.05 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Tgt Ion: 91 Resp: 518931
Ion Ratio Lower Upper
91 100
106 0.0 38.6 58.0#





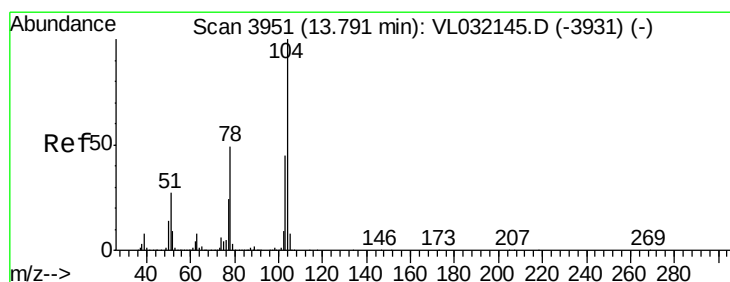
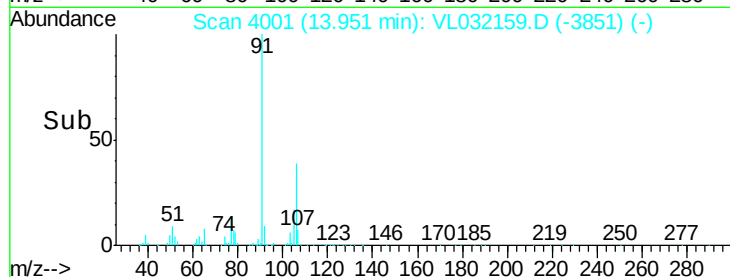
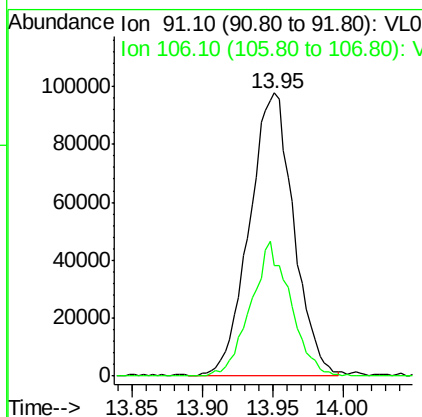
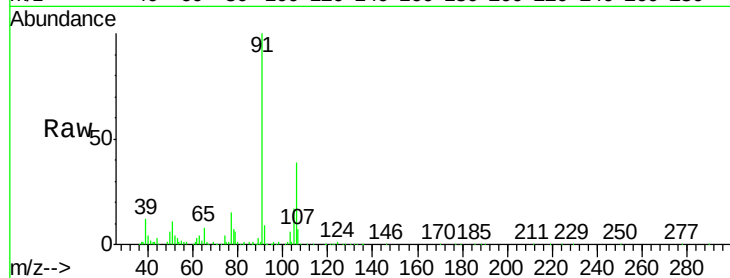
#60
o-Xylene
Concen: 0.48 ppbv
RT: 13.95 min Scan# 4001
Delta R.T. -0.02 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-INDOOR

Tot Ion	Ratio	Lower	Upper
91	100		
106	42.7	23.3	69.8

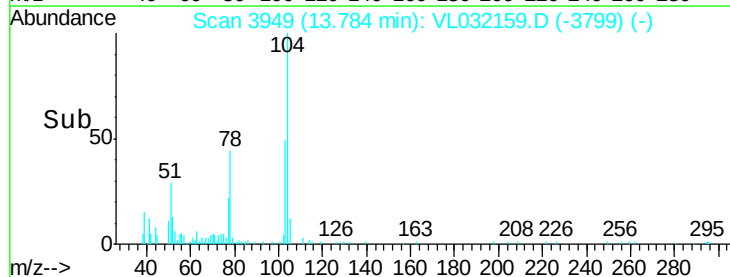
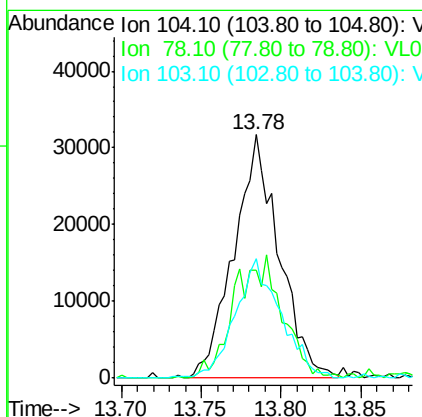
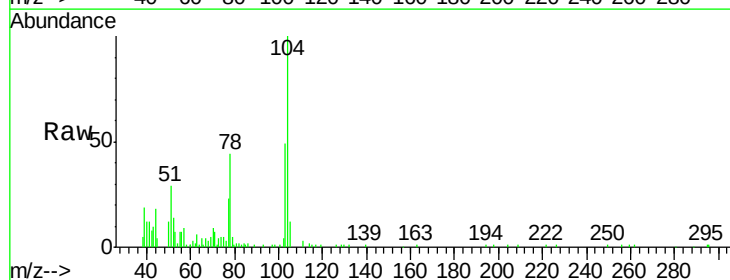
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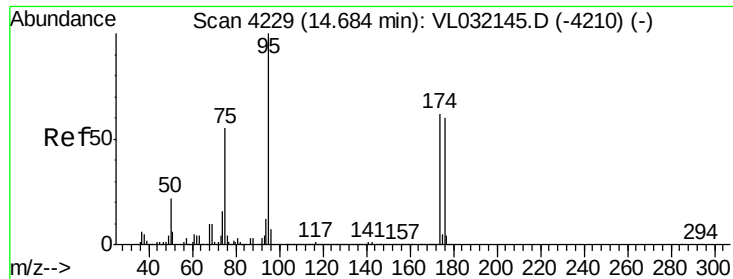
MMDadoda
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#61
Styrene
Concen: 0.17 ppbv
RT: 13.78 min Scan# 3949
Delta R.T. -0.02 min
Lab File: VL032159.D
Acq: 30 Jun 2018 7:15

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.5	37.9	56.9
103	49.3	36.6	55.0





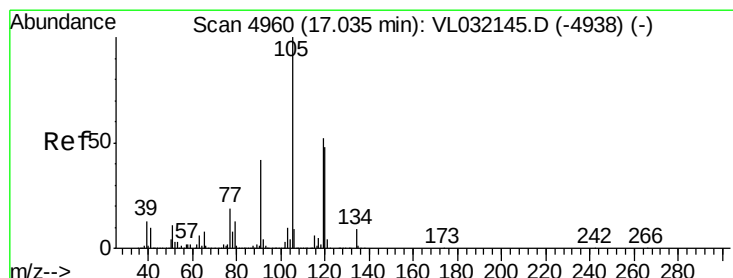
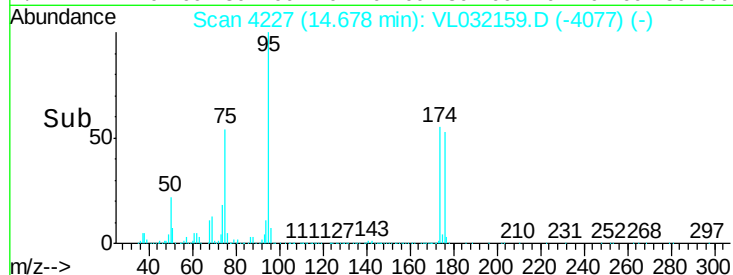
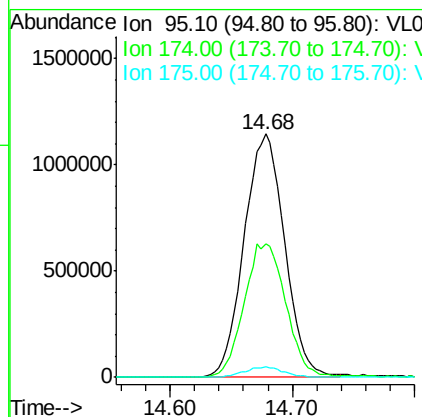
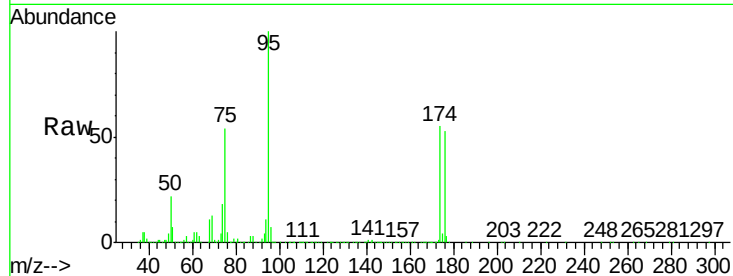
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.80 ppbv
 RT: 14.68 min Scan# 4227
 Delta R.T. -0.02 min
 Lab File: VL032159.D
 Acq: 30 Jun 2018 7:15

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-A-INDOOR

Tot Ion: 95 Resp: 2631046
 Ion Ratio Lower Upper
 95 100
 174 57.5 52.1 78.1
 175 4.2 4.0 6.0

Manual Integrations
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 7/2/2018 4:25:36 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.24 ppbv m
 RT: 17.03 min Scan# 4957
 Delta R.T. -0.02 min
 Lab File: VL032159.D
 Acq: 30 Jun 2018 7:15

Tgt Ion: 105 Resp: 135264
 Ion Ratio Lower Upper
 105 100
 120 39.6 38.8 58.2
 91 12.2 33.6 50.4#
 77 15.7 16.0 24.0#

