

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
 Data File : VL037370.D
 Acq On : 7 Aug 2021 8:36
 Operator : SY/AP
 Sample : M3121-04RE
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-4RE

Manual Integrations
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 8/10/2021 6:10:55 PM

Quant Time: Aug 07 09:14:44 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 0
 QLast Update : Fri Aug 06 17:52:04 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	828958	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2748899	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2297475	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1560671	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	43043	0.229	ppbv	97
3) Chlorodifluoromethane	2.99	51	684122	4.138	ppbv	95
4) Chloromethane	3.14	50	36074m	0.638	ppbv	
9) Propene	3.02	41	48881	0.881	ppbv #	80
11) Trichlorofluoromethane	3.94	101	38421	0.239	ppbv	88
13) Ethanol	3.60	45	981903	95.958	ppbv	98
15) Acetone	3.84	43	1192828	13.808	ppbv	96
17) tert-Butyl alcohol	4.30	59	12344m	0.134	ppbv	
19) Isopropyl Alcohol	3.96	45	1928335	36.881	ppbv	100
20) Methylene Chloride	4.34	84	847957	11.721	ppbv	98
26) Hexane	5.68	57	451452	3.739	ppbv #	51
29) Chloroform	5.74	83	32752	0.202	ppbv	84
30) Cyclohexane	7.12	84	13492m	0.143	ppbv	
34) 2-Butanone	5.24	43	75375	0.817	ppbv	90
35) Carbon Tetrachloride	7.01	117	10457m	0.061	ppbv	
36) Benzene	6.88	78	40365m	0.192	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	48071m	0.136	ppbv	
52) Tetrachloroethene	11.21	164	35467m	0.353	ppbv	
53) Toluene	9.80	91	408399	1.663	ppbv	98
59) m/p-Xylene	12.95	91	63419m	0.243	ppbv	
60) o-Xylene	13.68	91	28930	0.120	ppbv	98
72) 4-Ethyltoluene	15.83	105	35041m	0.122	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	37599	0.139	ppbv	90
74) 1,2,4-Trimethylbenzene	16.74	105	111452	0.393	ppbv #	69
76) 1,4-Dichlorobenzene	17.12	146	40288m	0.229	ppbv	

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

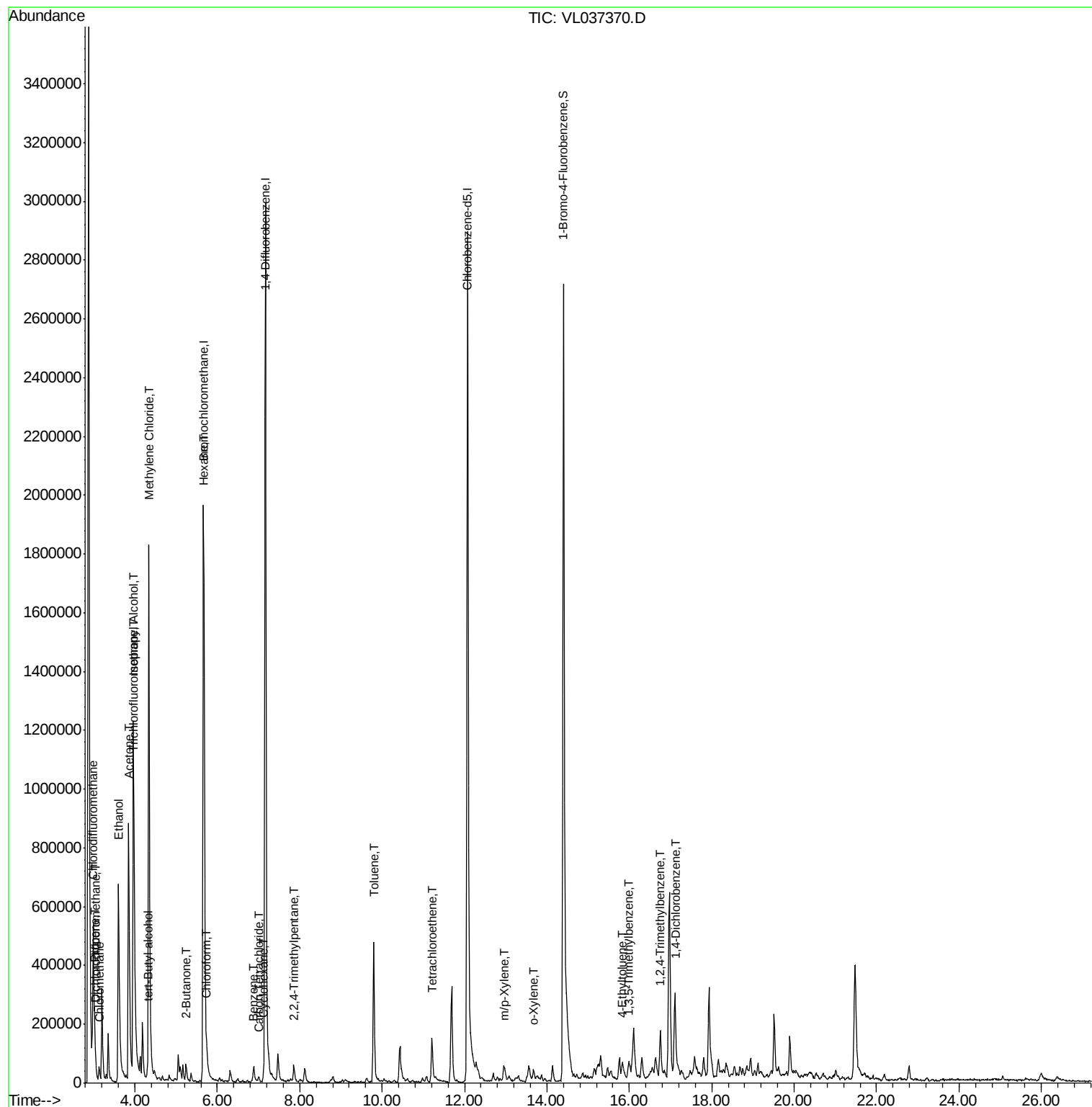
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080621\
Data File : VL037370.D
Acq On : 7 Aug 2021 8:36
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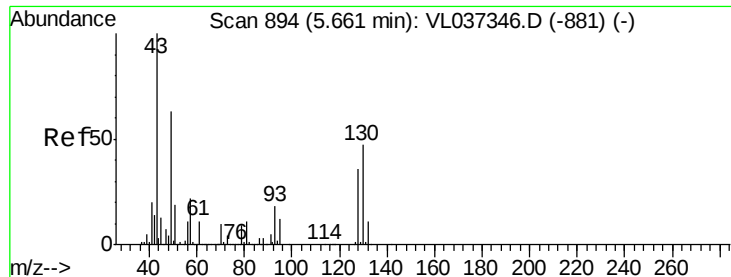
Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-4RE

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Quant Time: Aug 07 09:14:44 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 06 17:52:04 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL037370.D

Acq: 7 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-4RE

Tot Ion: 49 Resp: 828958

Ion Ratio Lower Upper

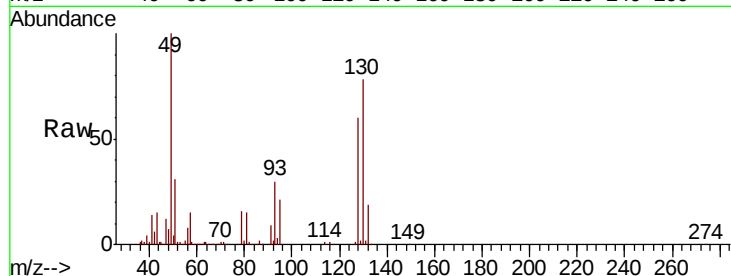
49 100

128 63.4 32.1 96.3

130 80.3 40.0 120.0

Manual Integrations
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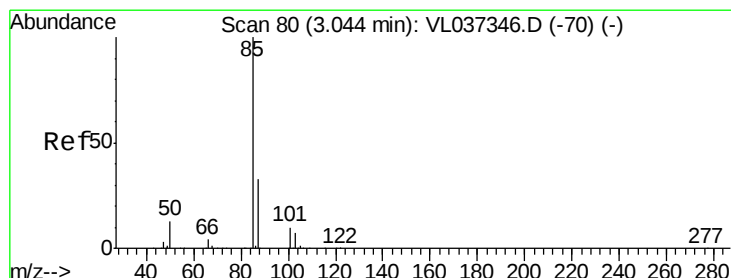
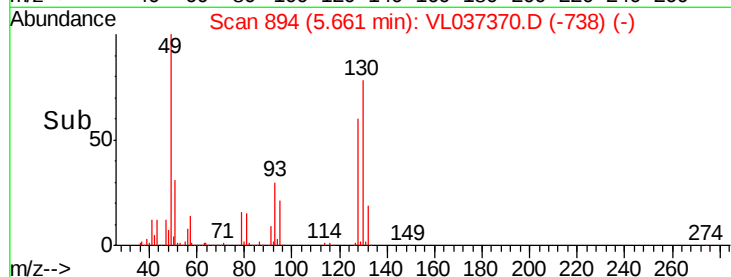
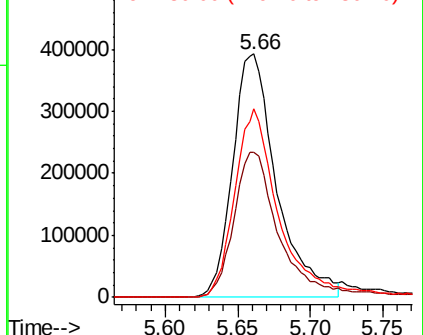
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.229 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL037370.D

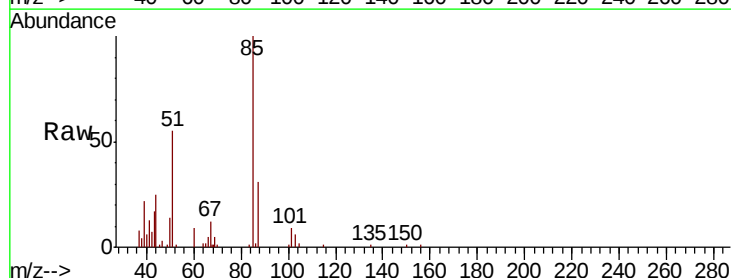
Acq: 7 Aug 2021 8:36

Tgt Ion: 85 Resp: 43043

Ion Ratio Lower Upper

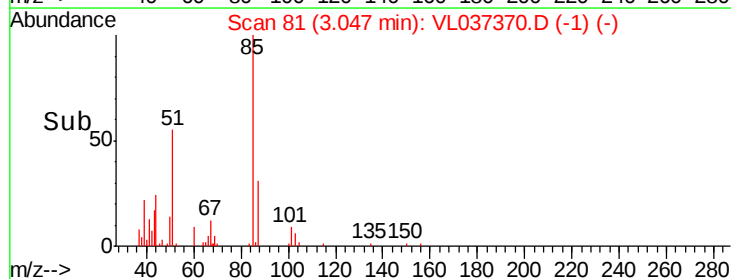
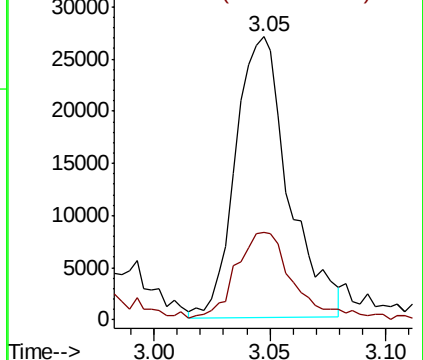
85 100

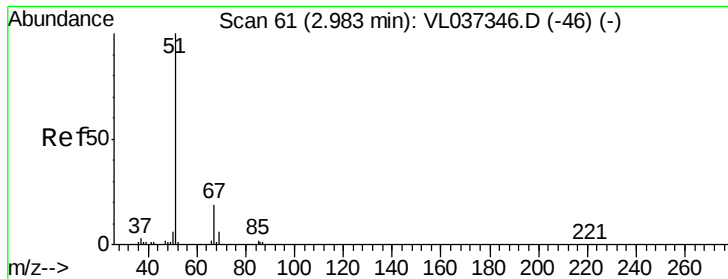
87 31.3 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 4.138 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL037370.D

Acq: 7 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-4RE

Tot Ion: 51 Resp: 684122

Ion Ratio Lower Upper

51 100

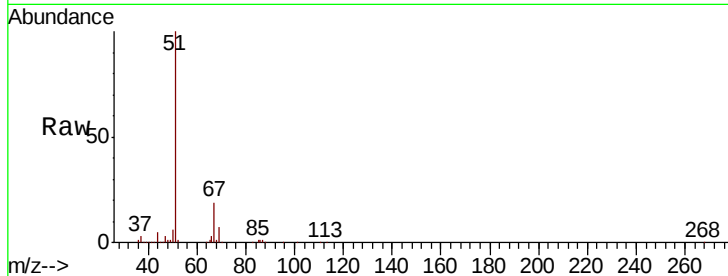
67 17.3 15.6 23.4

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

400000

300000

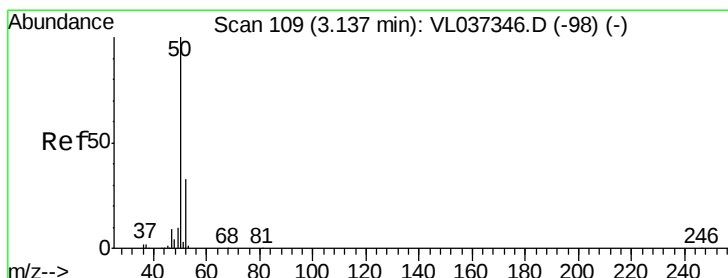
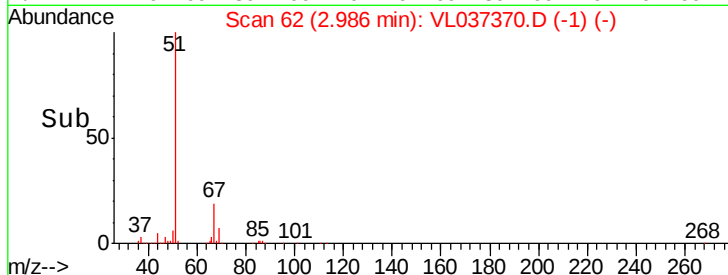
200000

100000

0

2.99

Time-->



#4

Chloromethane

Concen: 0.638 ppbv m

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL037370.D

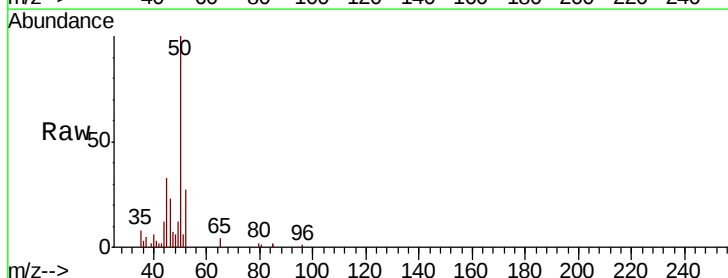
Acq: 7 Aug 2021 8:36

Tgt Ion: 50 Resp: 36074

Ion Ratio Lower Upper

50 100

52 27.2 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

20000

15000

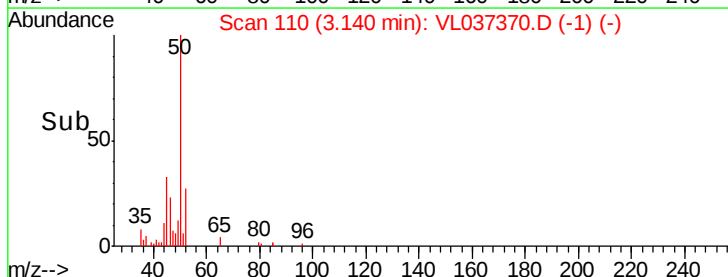
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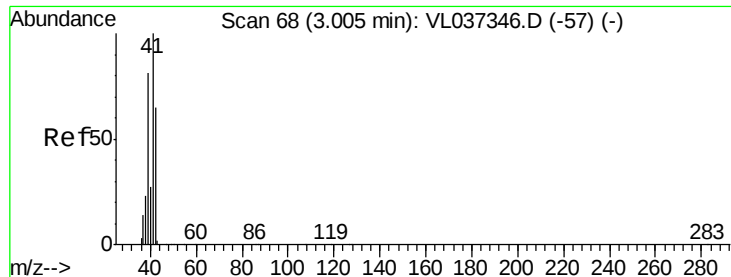
5000

0

3.14

Time-->





#9

Propene

Concen: 0.881 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037370.D

Acq: 7 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-4RE

Tot Ion: 41 Resp: 48881

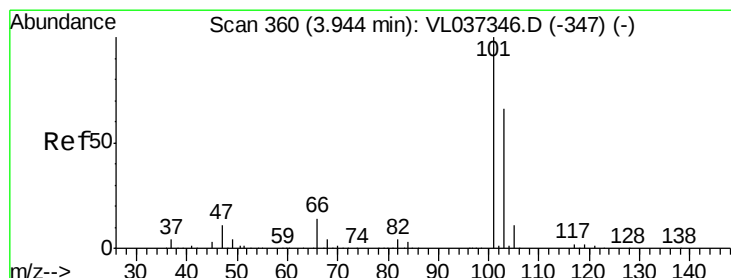
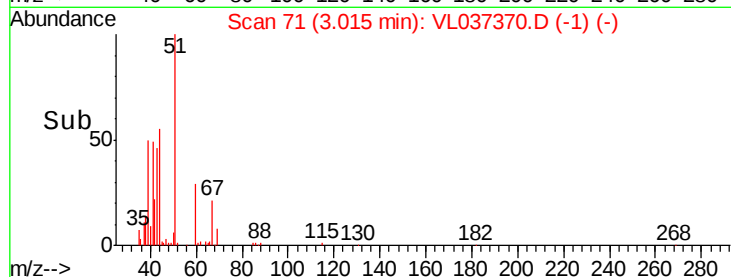
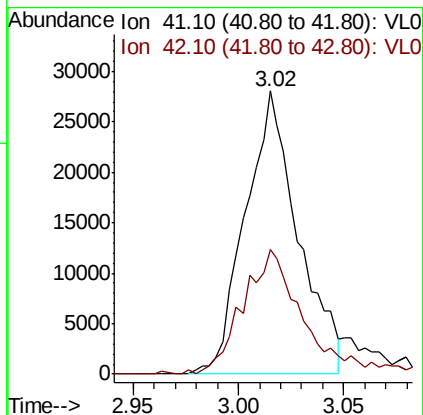
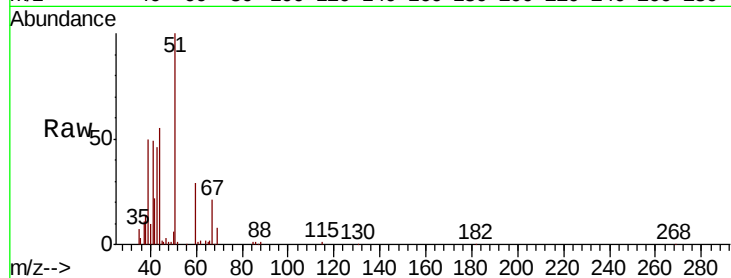
Ion Ratio Lower Upper

41 100

42 51.7 54.3 81.5#

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#11

Trichlorofluoromethane

Concen: 0.239 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL037370.D

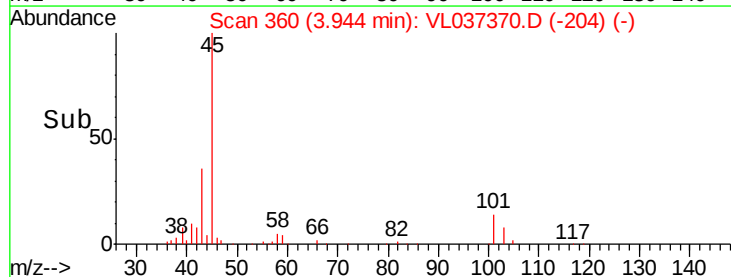
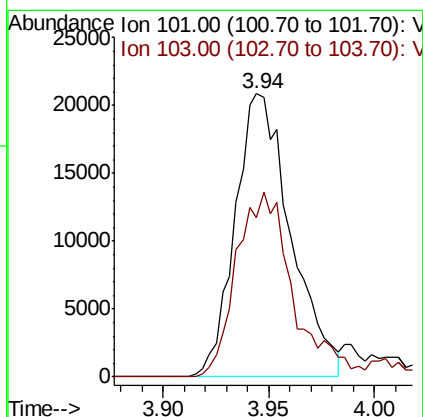
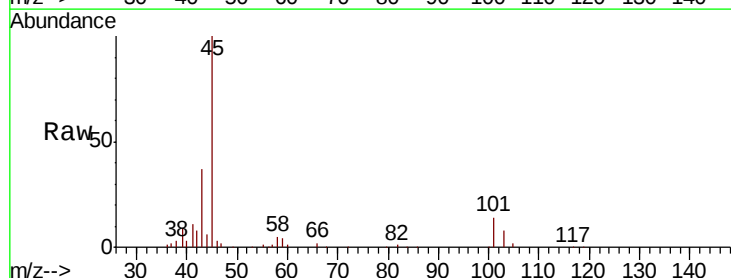
Acq: 7 Aug 2021 8:36

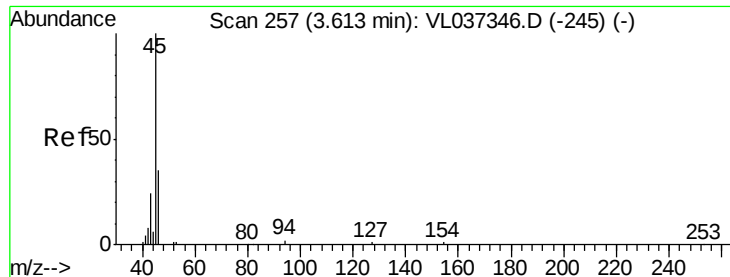
Tgt Ion: 101 Resp: 38421

Ion Ratio Lower Upper

101 100

103 56.3 52.5 78.7





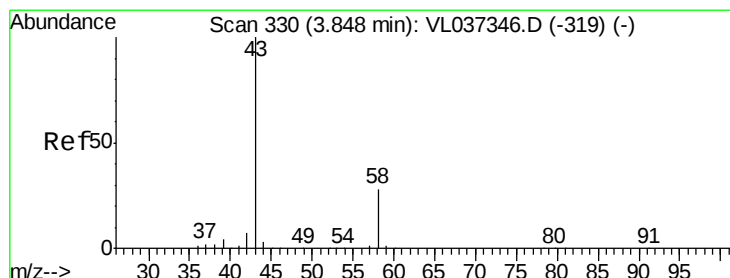
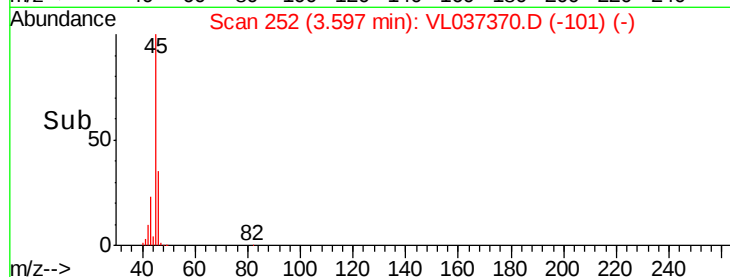
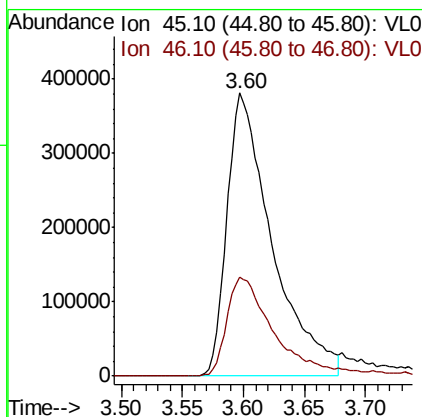
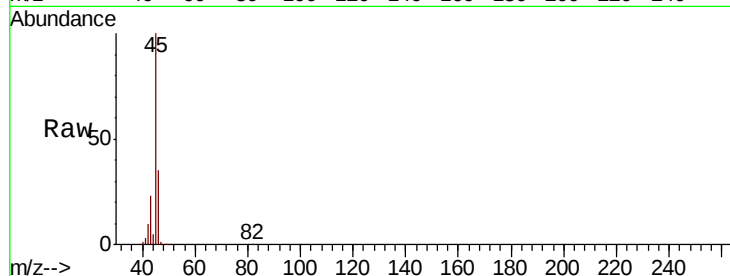
#13
Ethanol
Concen: 95.958 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.02 min
Lab File: VL037370.D
Acq: 7 Aug 2021 8:36

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-4RE

Tot Ion	45	Resp	981903
Ion Ratio	100	Lower	Upper
46	37.9	15.7	62.9

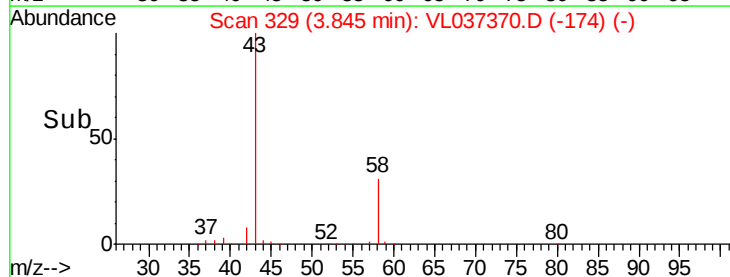
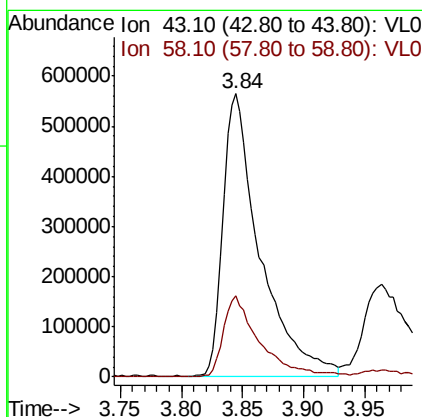
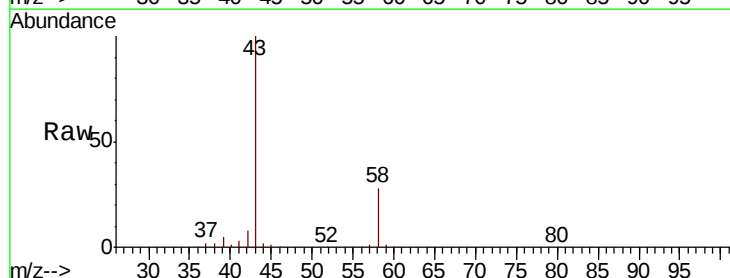
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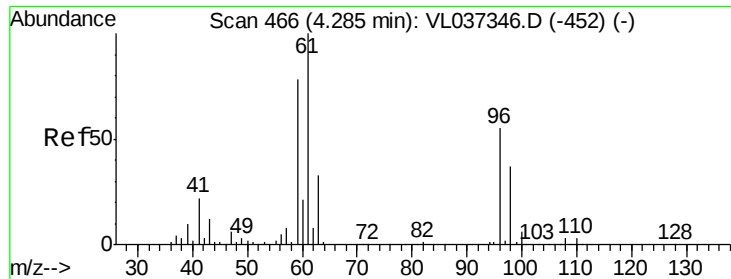
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#15
Acetone
Concen: 13.808 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL037370.D
Acq: 7 Aug 2021 8:36

Tgt Ion	43	Resp	1192828
Ion Ratio	100	Lower	Upper
58	28.3	24.6	36.8





#17

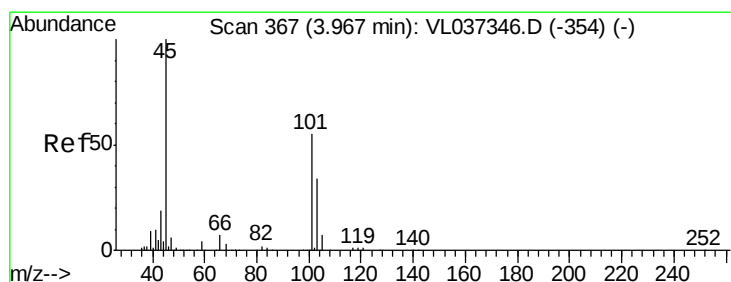
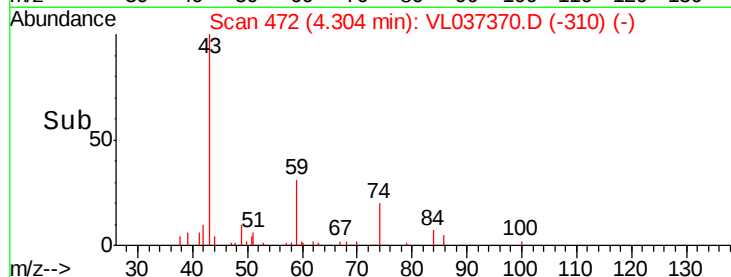
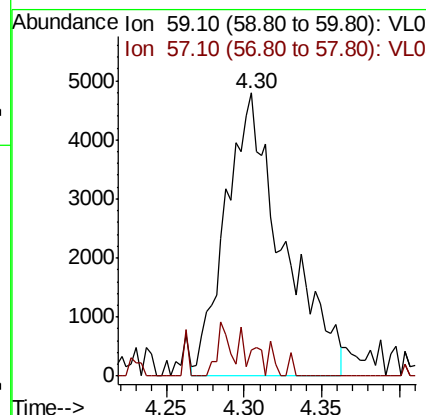
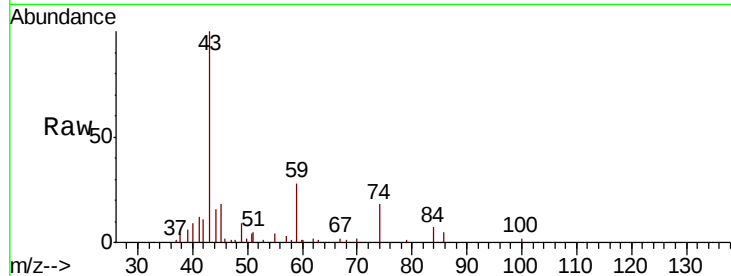
tert-Butyl alcohol
 Concen: 0.134 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.02 min
 Lab File: VL037370.D
 Acq: 7 Aug 2021 8:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-4RE

Tot Ion	59	Resp	12344
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.7	13.1#

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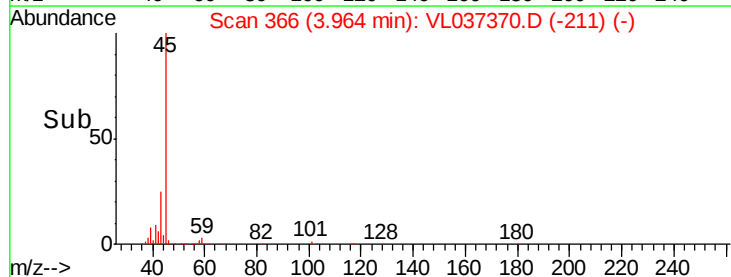
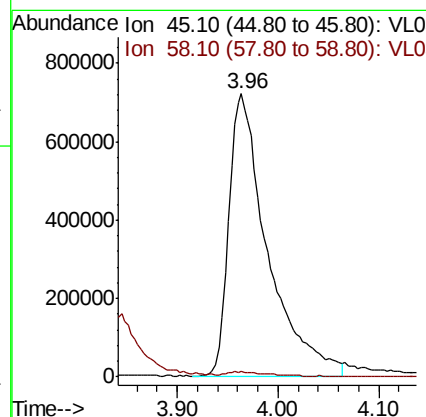
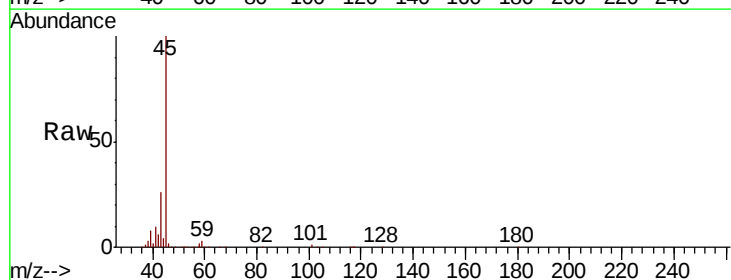
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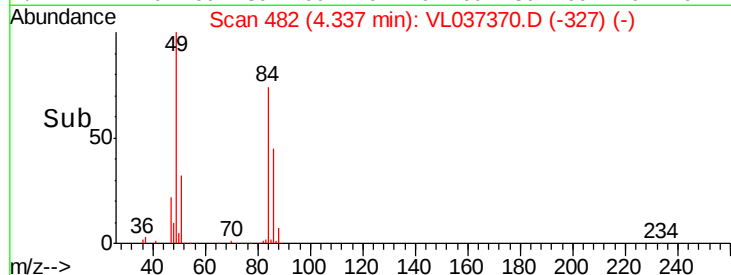
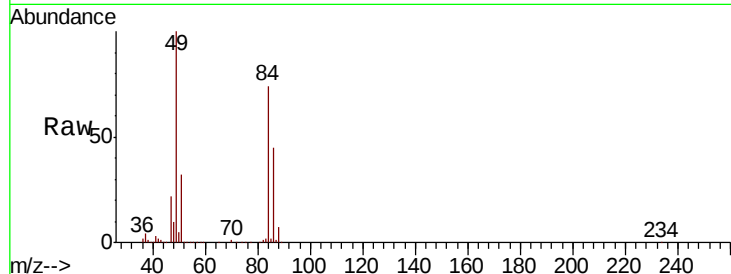
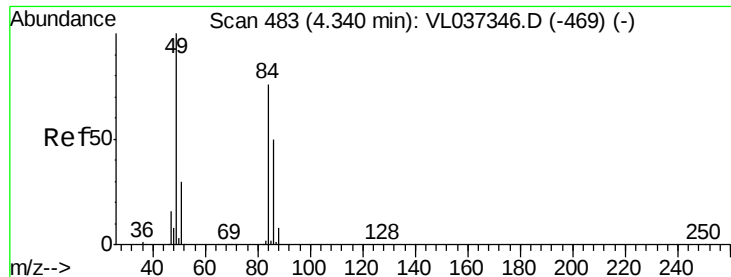


#19

Isopropyl Alcohol
 Concen: 36.881 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. -0.00 min
 Lab File: VL037370.D
 Acq: 7 Aug 2021 8:36

Tgt Ion	45	Resp	1928335
Ion	Ratio	Lower	Upper
45	100		
58	2.1	1.8	2.8





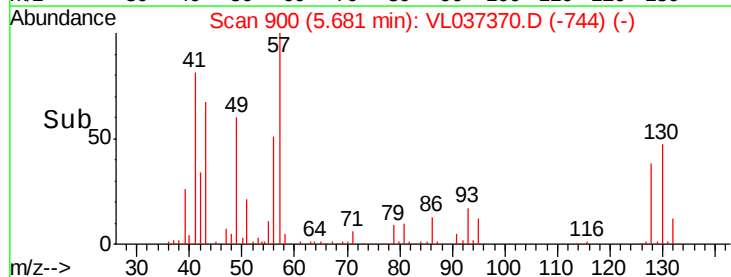
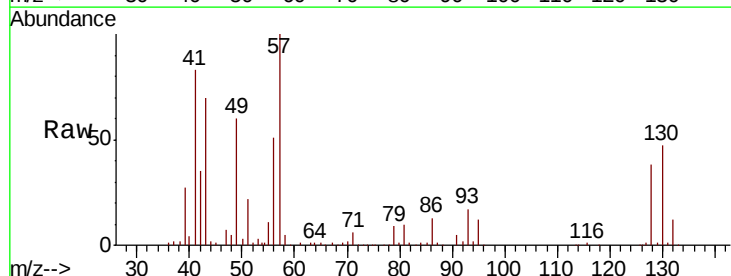
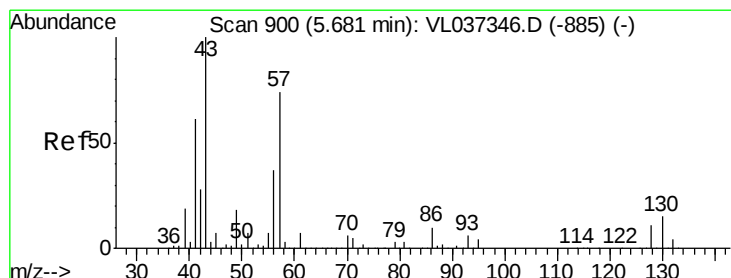
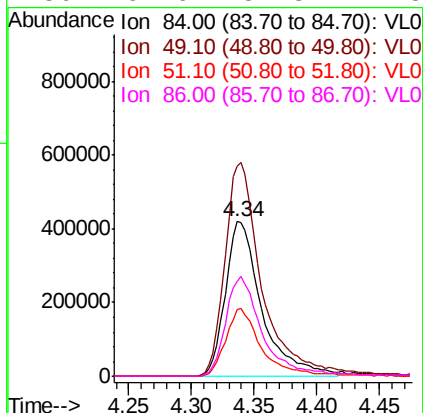
#20
Methvlene Chloride
Concen: 11.721 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL037370.D
Acq: 7 Aug 2021 8:36

Tot Ion	84	Resp	847957
Ion Ratio	Lower	Upper	
84	100		
49	135.6	107.3	160.9
51	42.8	33.0	49.4
86	61.6	51.8	77.8

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-4RE

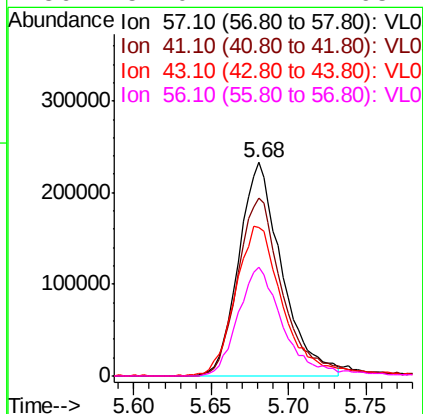
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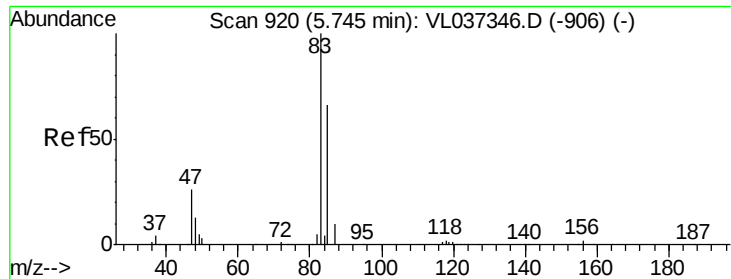
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#26
Hexane
Concen: 3.739 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL037370.D
Acq: 7 Aug 2021 8:36

Tgt Ion	57	Resp	451452
Ion Ratio	Lower	Upper	
57	100		
41	89.5	69.2	103.8
43	78.5	162.1	243.1#
56	54.0	42.2	63.4





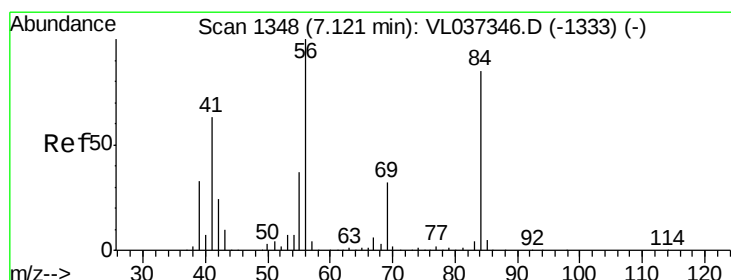
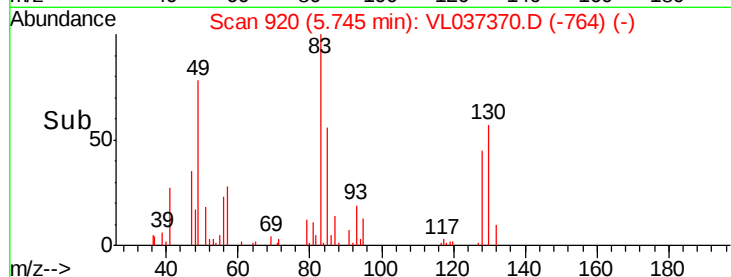
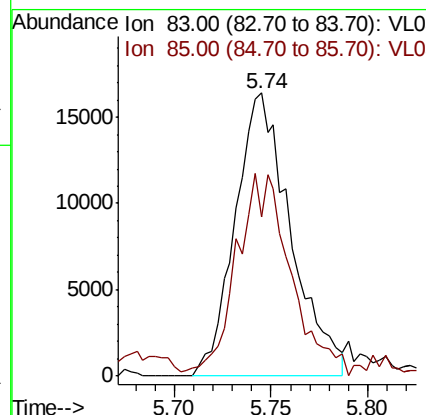
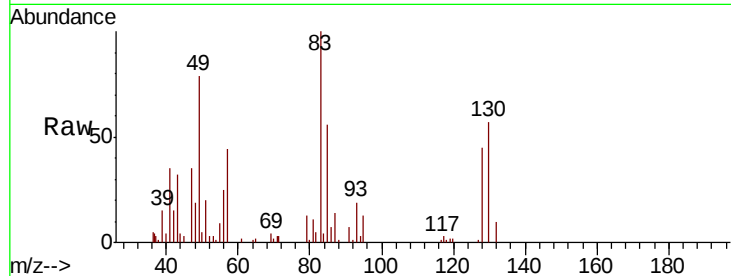
#29
Chloroform
Concen: 0.202 ppbv
RT: 5.74 min Scan# 920
Delta R.T. 0.00 min
Lab File: VL037370.D
Acq: 7 Aug 2021 8:36

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-4RE

Tot Ion: 83 Resp: 32752
Ion Ratio Lower Upper
83 100
85 53.6 53.1 79.7

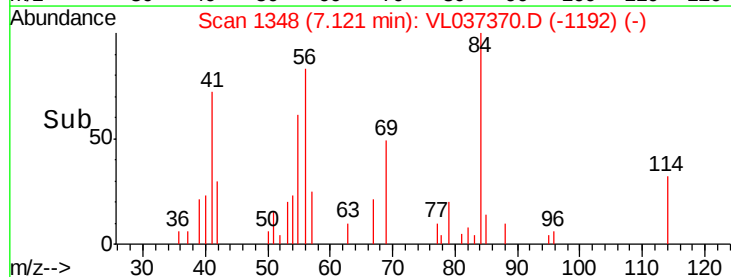
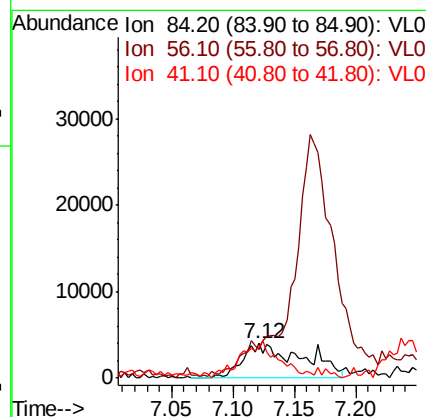
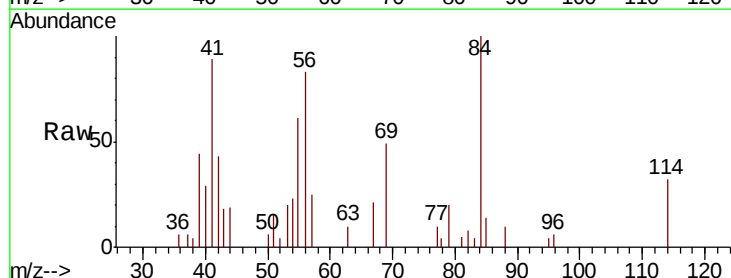
Manual Integrations
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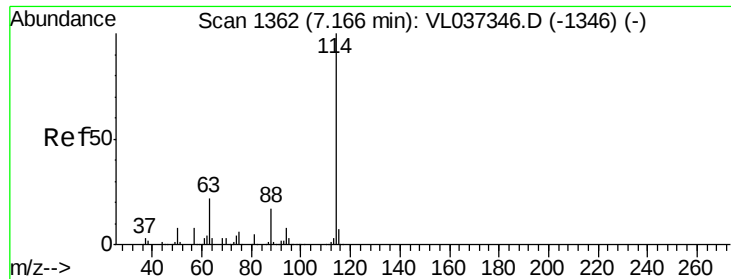
MMDadoda
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#30
Cyclohexane
Concen: 0.143 ppbv m
RT: 7.12 min Scan# 1348
Delta R.T. 0.00 min
Lab File: VL037370.D
Acq: 7 Aug 2021 8:36

Tgt Ion: 84 Resp: 13492
Ion Ratio Lower Upper
84 100
56 0.0 103.5 155.3#
41 75.6 61.4 92.2





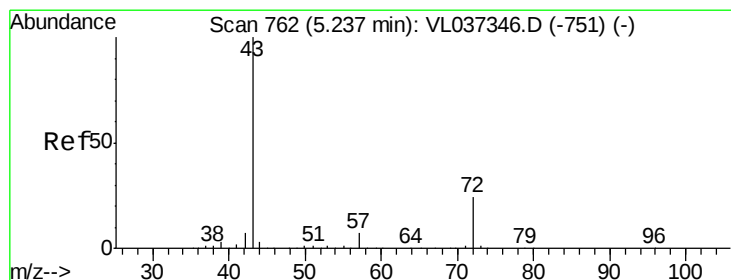
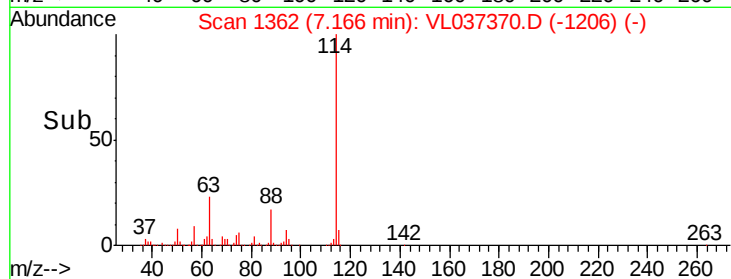
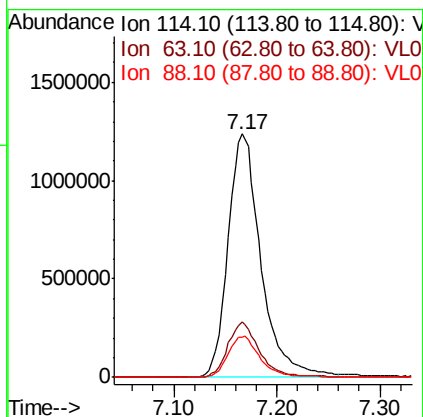
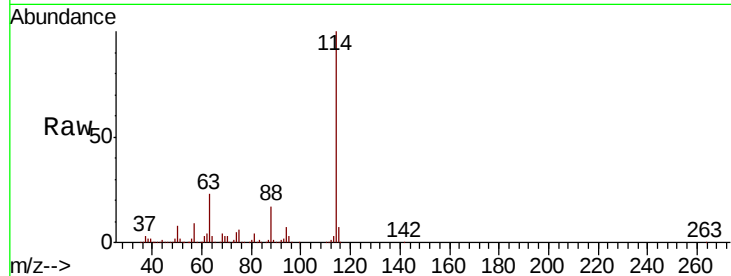
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VL037370.D
 Acq: 7 Aug 2021 8:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-4RE

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	17.8	26.6
88	17.1	13.5	20.3

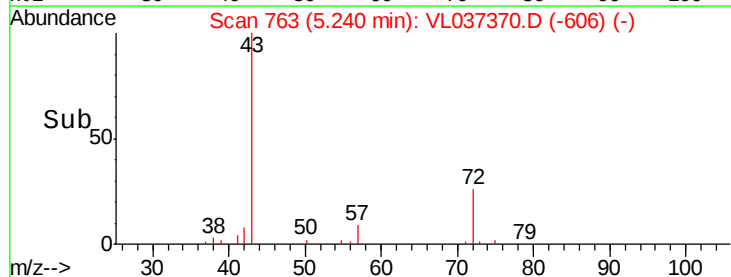
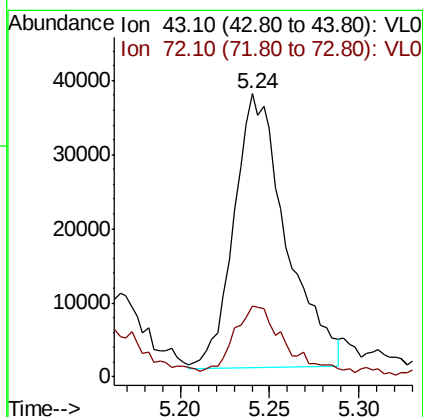
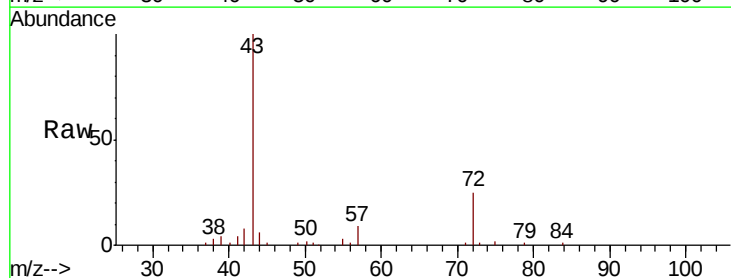
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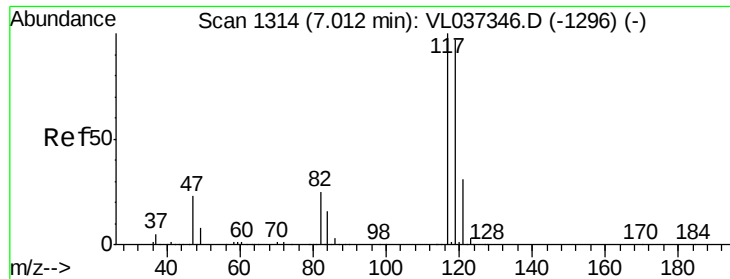
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#34
 2-Butanone
 Concen: 0.817 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.00 min
 Lab File: VL037370.D
 Acq: 7 Aug 2021 8:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	29.5	19.8	29.6





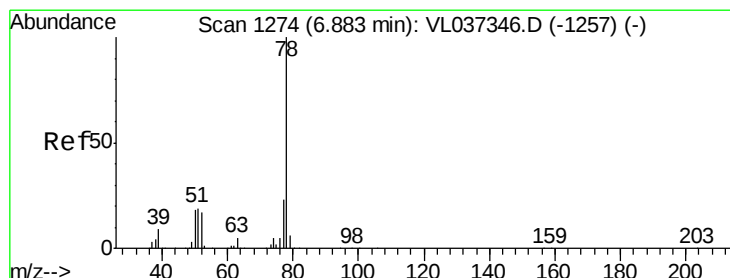
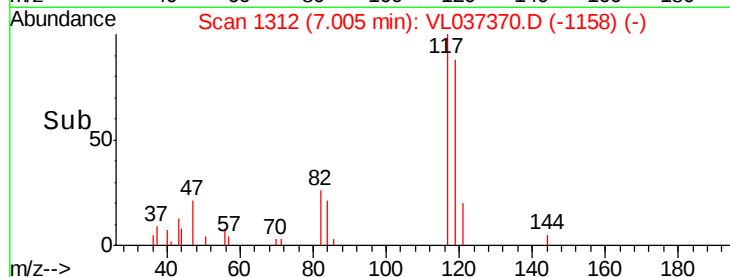
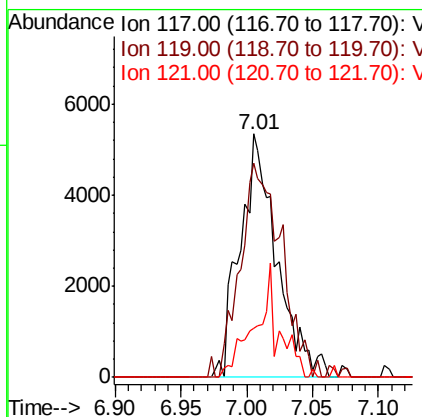
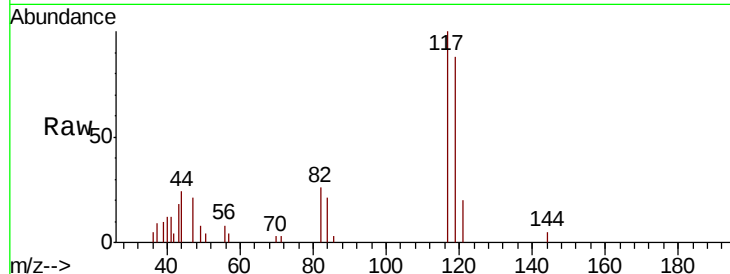
#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 7.01 min Scan# 1312
Delta R.T. -0.01 min
Lab File: VL037370.D
Acq: 7 Aug 2021 8:36

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-4RE

Tot Ion	Ratio	Lower	Upper
117	100		
119	87.9	77.8	116.8
121	19.9	24.6	36.8#

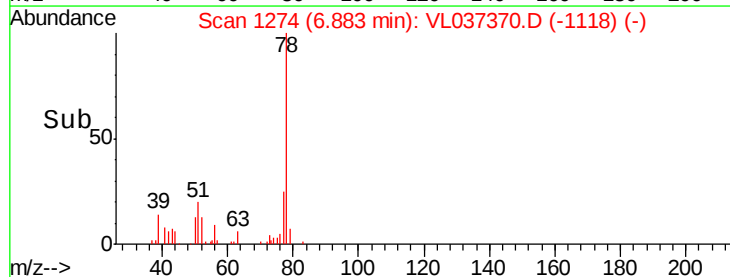
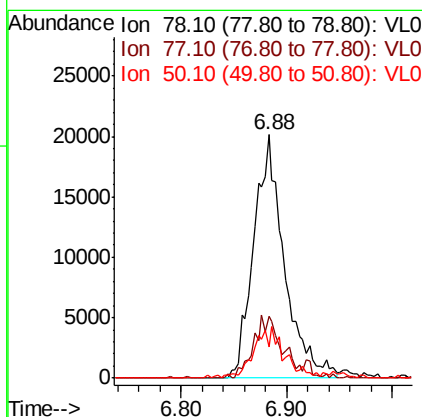
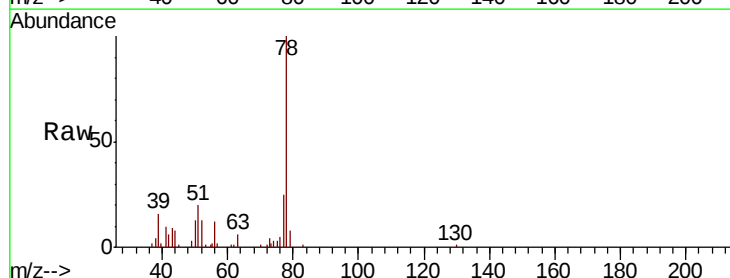
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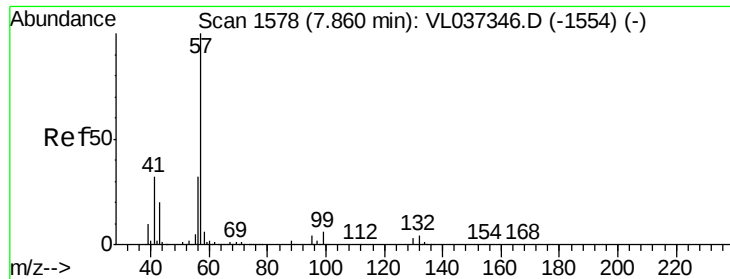
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#36
Benzene
Concen: 0.192 ppbv m
RT: 6.88 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VL037370.D
Acq: 7 Aug 2021 8:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.4	18.7	28.1
50	13.0	14.6	22.0#





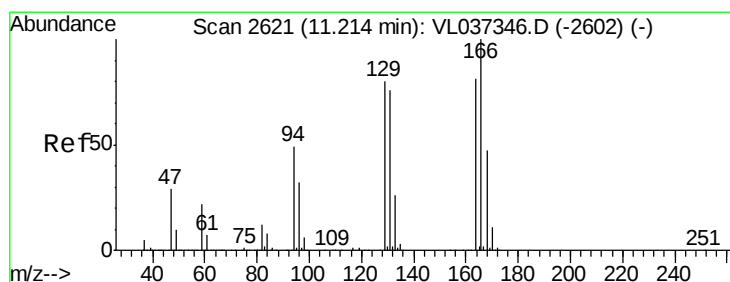
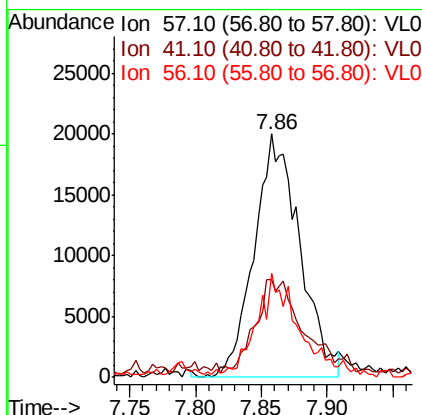
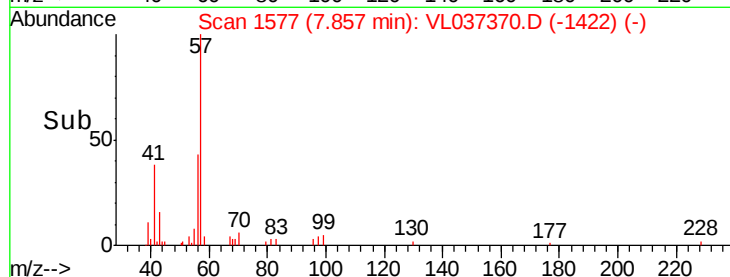
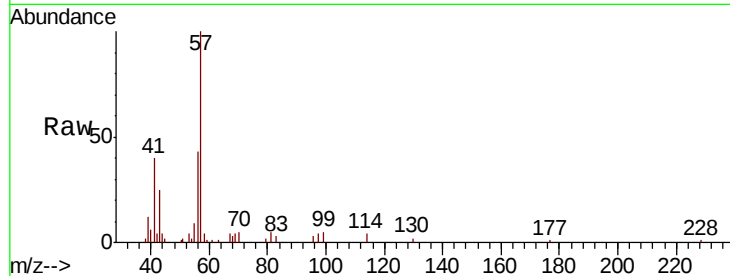
#44
 2,2,4-Trimethylpentane
 Concen: 0.136 ppbv m
 RT: 7.86 min Scan# 1577
 Delta R.T. -0.00 min
 Lab File: VL037370.D
 Acq: 7 Aug 2021 8:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-4RE

Tot Ion	Ratio	Lower	Upper
57	100		
41	42.0	26.1	39.1#
56	40.9	25.0	37.4#

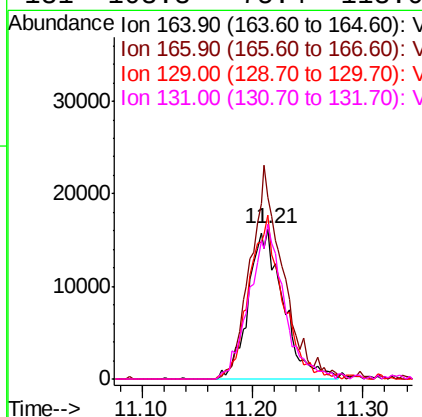
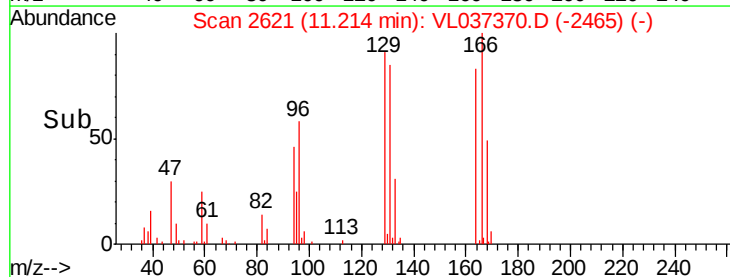
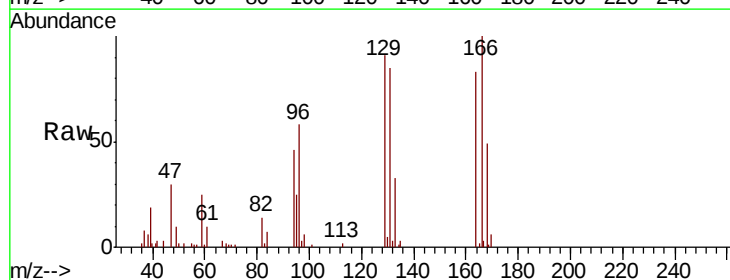
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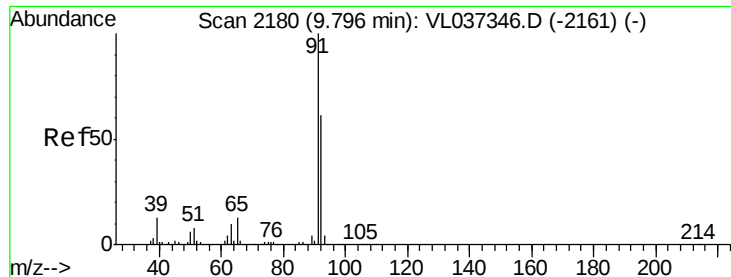
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#52
 Tetrachloroethene
 Concen: 0.353 ppbv m
 RT: 11.21 min Scan# 2621
 Delta R.T. 0.00 min
 Lab File: VL037370.D
 Acq: 7 Aug 2021 8:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.9	99.4	149.0
129	109.6	79.2	118.8
131	103.3	75.4	113.0





#53

Toluene

Concen: 1.663 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL037370.D

Acq: 7 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-4RE

Tot Ion: 91 Resp: 408399

Ion Ratio Lower Upper

91 100

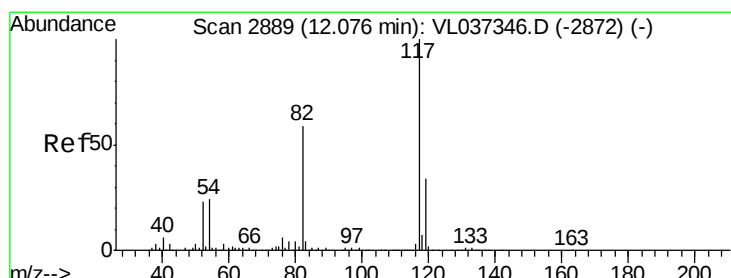
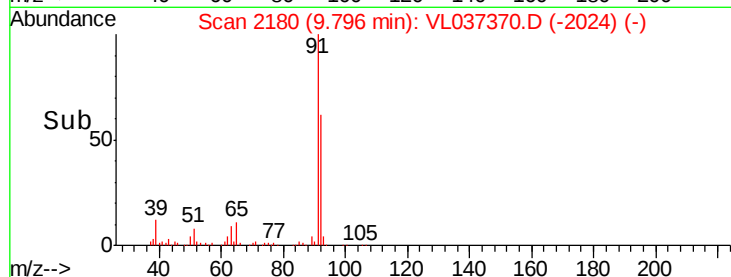
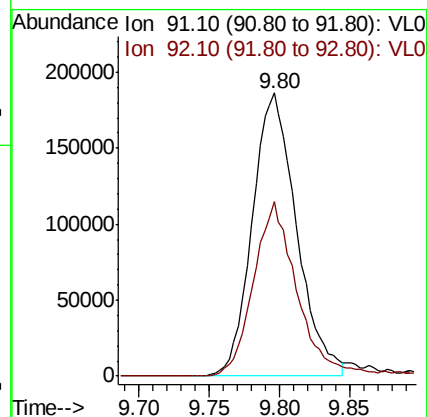
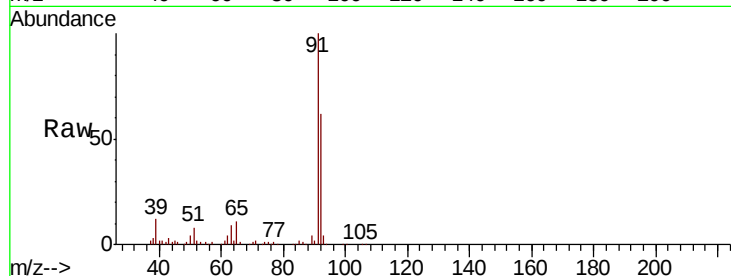
92 61.9 48.2 72.4

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL037370.D

Acq: 7 Aug 2021 8:36

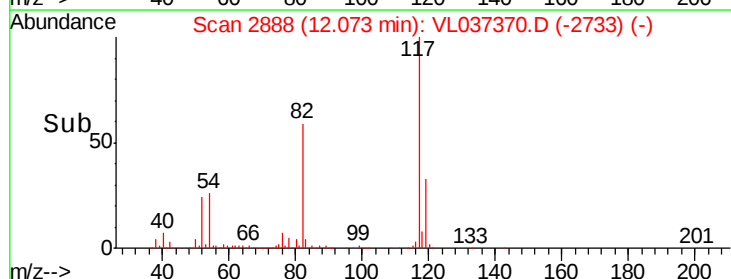
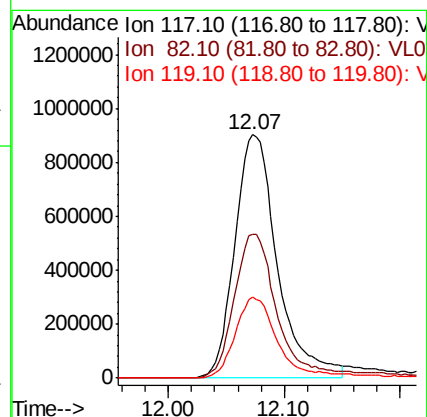
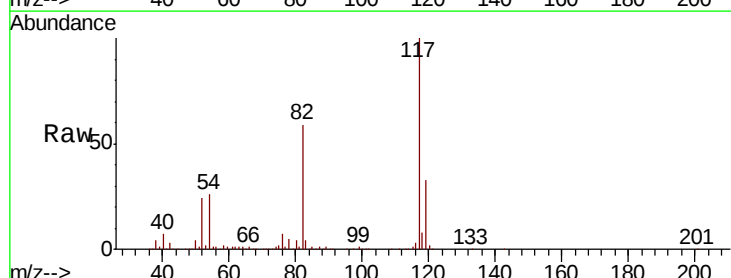
Tgt Ion: 117 Resp: 2297475

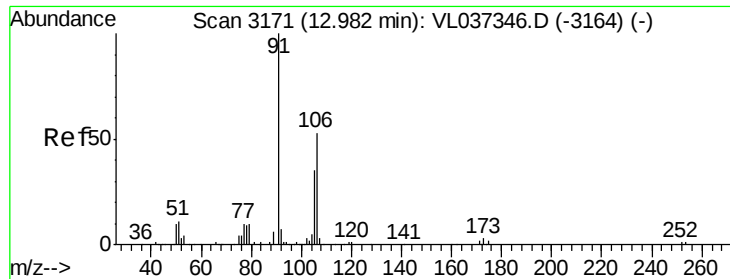
Ion Ratio Lower Upper

117 100

82 64.6 46.0 69.0

119 35.9 24.4 36.6





#59

m/p-Xylene

Concen: 0.243 ppbv m

RT: 12.95 min Scan# 3162

Delta R.T. -0.03 min

Lab File: VL037370.D

Acq: 7 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-4RE

Tot Ion: 91 Resp: 63419

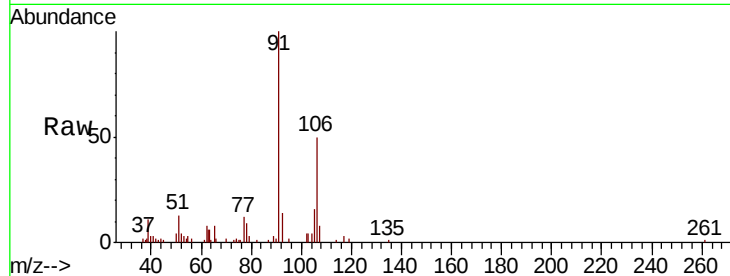
Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#

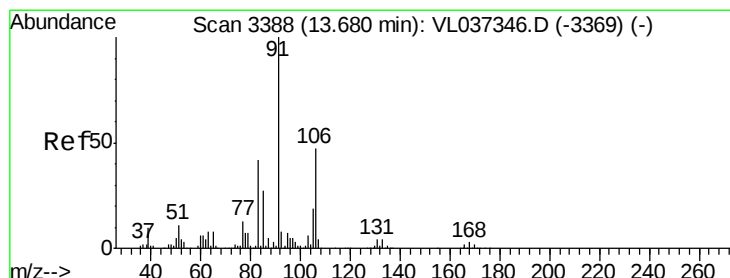
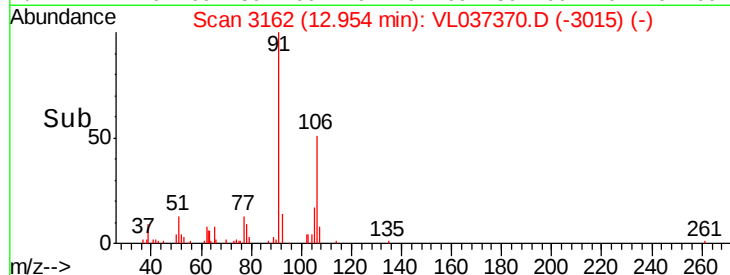
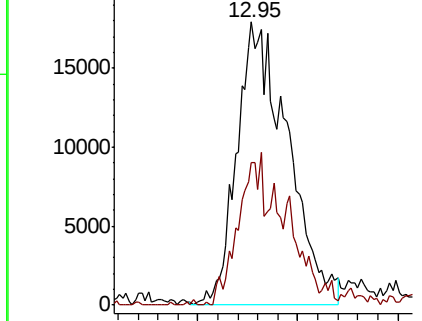
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.120 ppbv

RT: 13.68 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VL037370.D

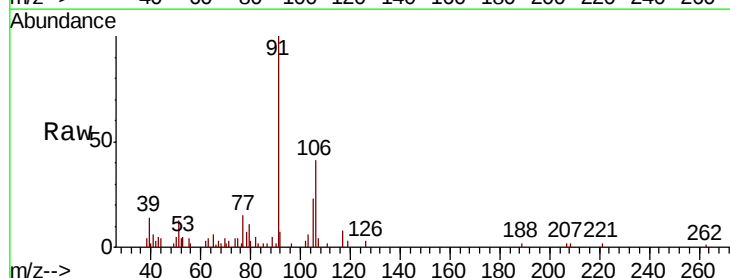
Acq: 7 Aug 2021 8:36

Tgt Ion: 91 Resp: 28930

Ion Ratio Lower Upper

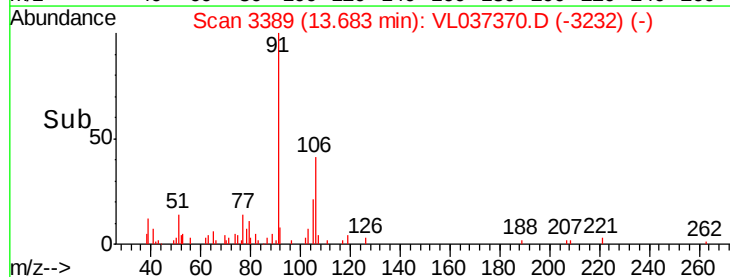
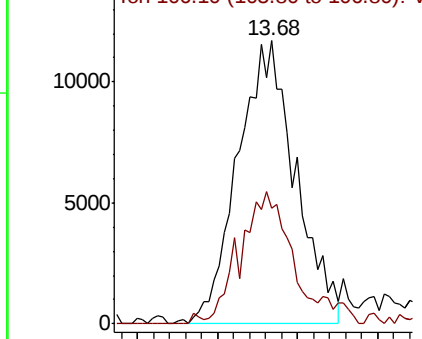
91 100

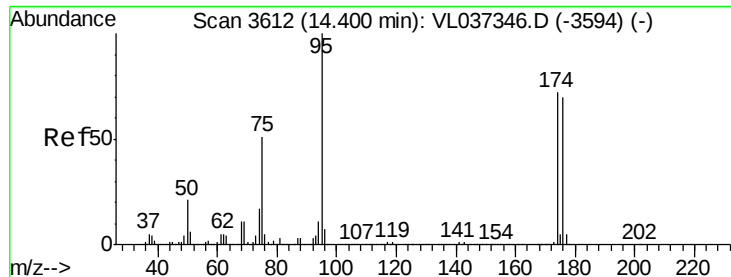
106 44.8 23.1 69.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





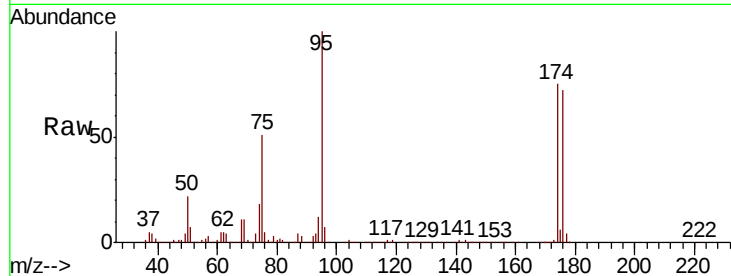
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.643 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. 0.00 min
 Lab File: VL037370.D
 Acq: 7 Aug 2021 8:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-4RE

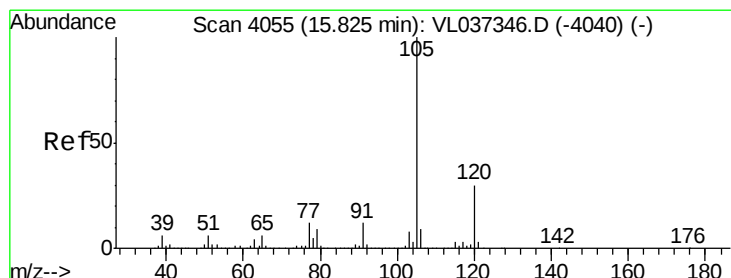
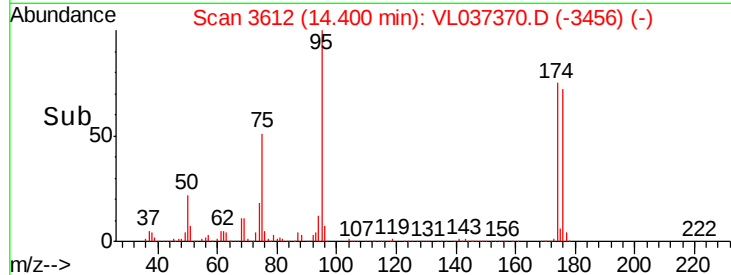
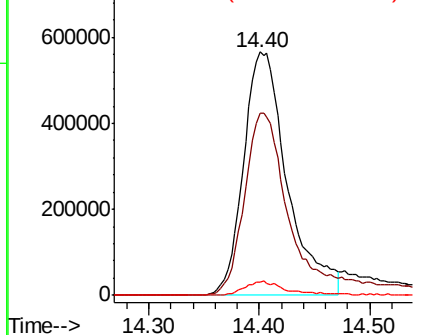
Tot Ion: 95 Resp: 1560671
 Ion Ratio Lower Upper
 95 100
 174 83.7 60.8 91.2
 175 6.1 4.3 6.5

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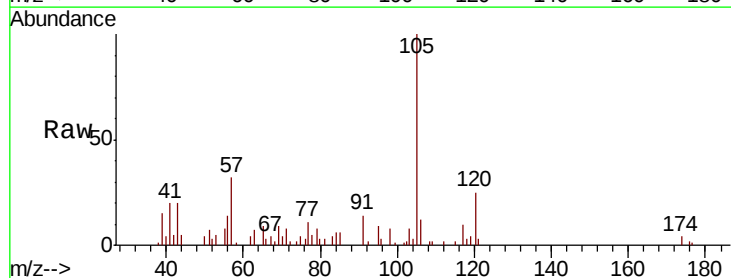


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

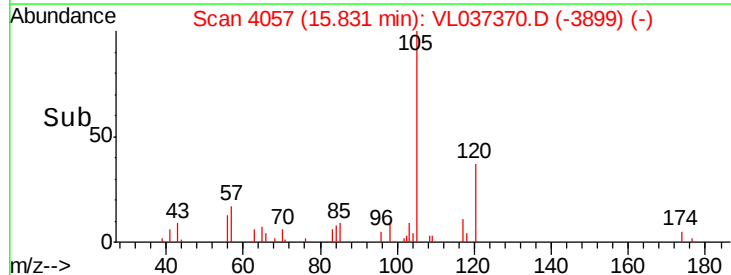
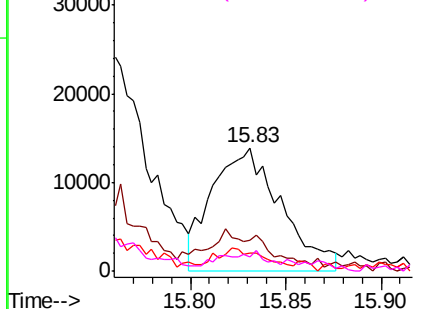


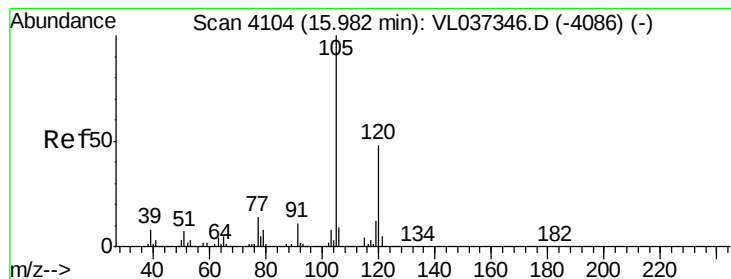
#72
 4-Ethyltoluene
 Concen: 0.122 ppbv m
 RT: 15.83 min Scan# 4057
 Delta R.T. 0.01 min
 Lab File: VL037370.D
 Acq: 7 Aug 2021 8:36

Tgt Ion: 105 Resp: 35041
 Ion Ratio Lower Upper
 105 100
 120 34.1 24.4 36.6
 91 17.7 9.8 14.6#
 77 15.7 9.9 14.9#



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





#73

1,3,5-Trimethylbenzene

Concen: 0.139 ppbv

RT: 15.98 min Scan# 4104

Delta R.T. 0.00 min

Lab File: VL037370.D

Acq: 7 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-4RE

Tot Ion:105 Resp: 37599

Ion Ratio Lower Upper

105 100

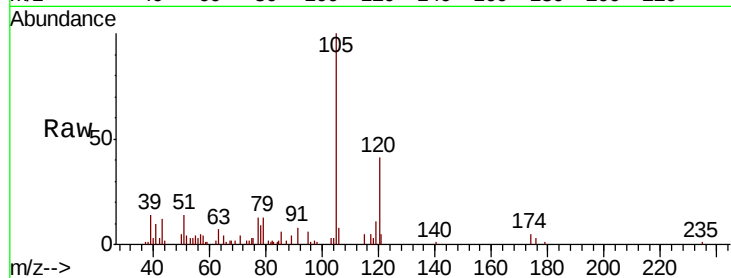
120 40.7 38.1 57.1

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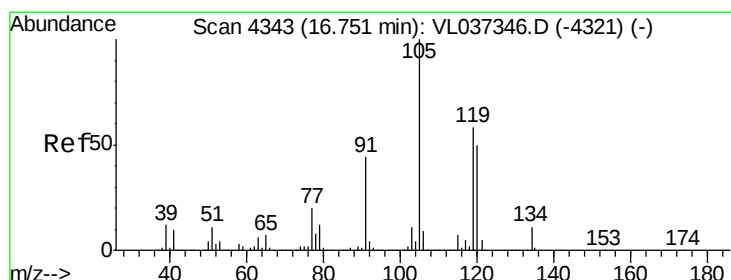
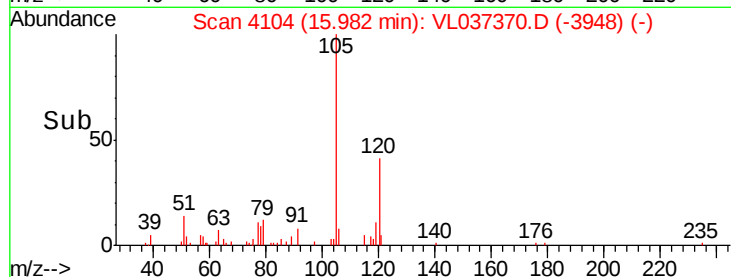
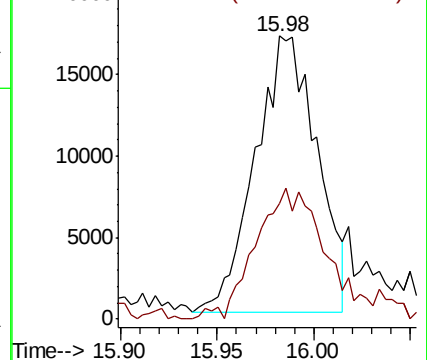
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.393 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. -0.01 min

Lab File: VL037370.D

Acq: 7 Aug 2021 8:36

Tgt Ion:105 Resp: 111452

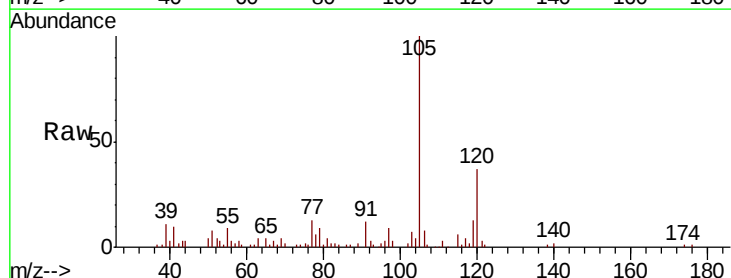
Ion Ratio Lower Upper

105 100

120 37.1 39.7 59.5#

91 10.5 35.0 52.6#

77 11.6 16.1 24.1#

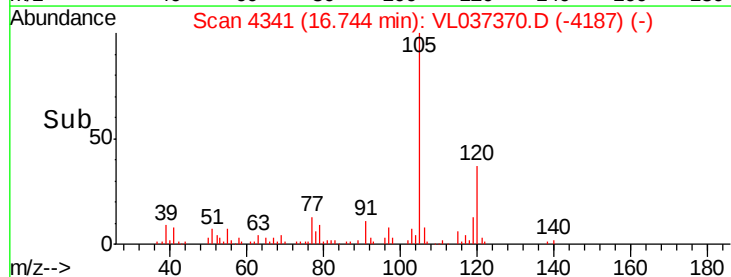
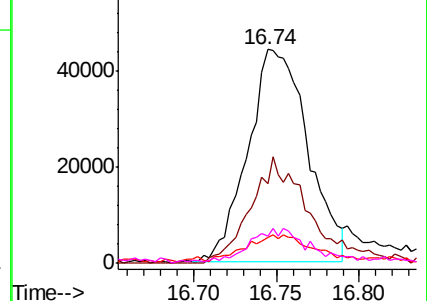


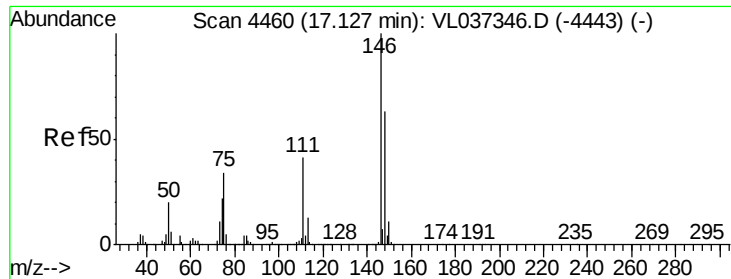
Abundance Ion 105.10 (104.80 to 105.80): V

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





#76
 1,4-Dichlorobenzene
 Concen: 0.229 ppbv m
 RT: 17.12 min Scan# 4459
 Delta R.T. -0.00 min
 Lab File: VL037370.D
 Acq: 7 Aug 2021 8:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-4RE

Tot Ion	Ratio	Lower	Upper
146	100		
111	53.4	21.1	63.3
148	69.3	32.8	98.4

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