AEROTECH G54

CERTIFIED VALUES

Total Impulse: 85 newton-seconds **Delays:** 6, 10, 14 seconds

Propellant Type: Composite Propellant Mass: 46.0 grams

Casing Dimensions: $29 \text{ mm} \times 124 \text{ mm}$

Certification Date: 97-July-6

Contest Use Date: 97-September-4

Certification Type: Model Rocket

STATIC TEST DATA

Date Tested: 97-July-5

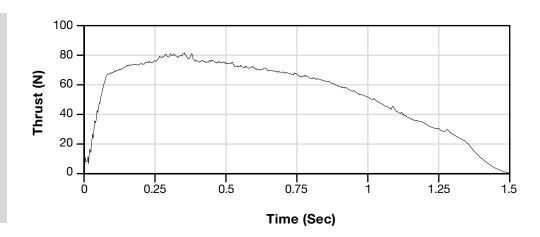
Total Impulse:81.05 newton-seconds (σ 0.66)Peak Thrust:81.64 newtons (σ 2.19)Burn Time:1.51 seconds (σ 0.08)

Average Thrust: 53.68 newtons

Mass After Firing: 84.2 grams

	Average		Mfg Recommended
Delay Time	Measured Delay	Initial Mass	Max Liftoff Weight
6	6.22	135.8 g	_
10	8.99	136.2 g	
14	13.32	137.4 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-29/100 Reload System and AeroTech G54 Reload Kit. No substitutions allowed.

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; Aerotech G54 RASP.ENG file made from NAR published data
; File produced July 4, 2000
; The total impulse, peak thrust, average thrust and burn time are
; the same as the averaged static test data on the NAR web site in
; the certification file. The curve drawn with these data points is as
; close to the certification curve as can be with such a limited
; number of points (32) allowed with wRASP up to v1.6.
 G54 29 124 6-10-14 .0460 .1365 A
0.018
       10.953
0.042
       39.215
0.083
       66.888
0.140
       72.075
0.223
       74.958
0.250
       76.694
0.282
       80.156
0.315
       79.577
0.336
       79.577
0.354
       81.640
0.365
       77.841
0.374
       80.724
0.389
       76.694
0.455
       76.116
0.523
        74.390
0.639
       70.928
0.722
       67,467
0.820
       64.005
0.897
       58.817
0.992
       51.894
1.084
       43.824
1.197
        34.017
1.268
       28.251
1.283
       29.987
1.295
       27.104
1.328
       23.642
1.366
       16.719
1.399
       9.803
1.435
       4.612
1.510
       0.000
```

