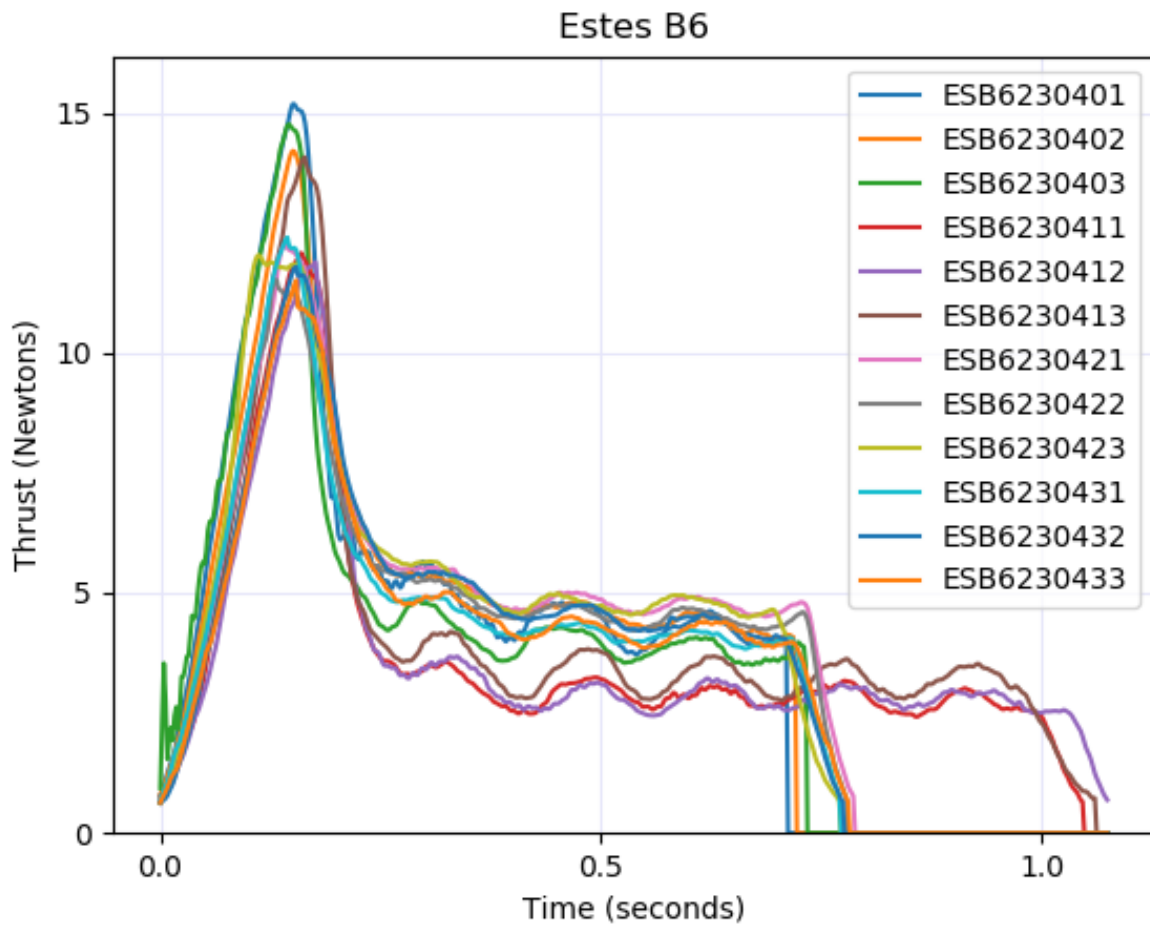




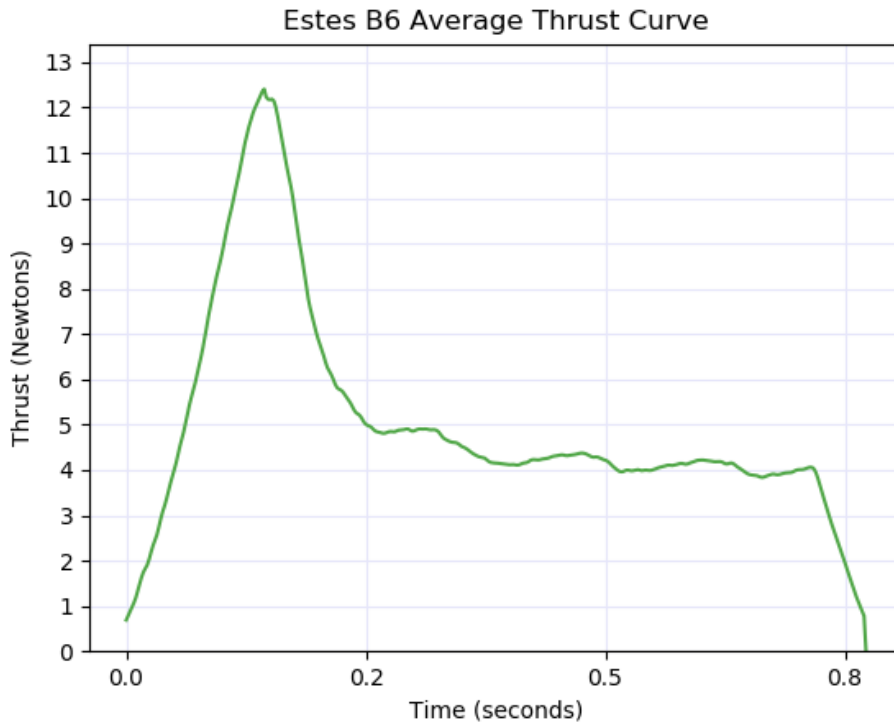
Estes B6 Test Results

Manufacturer	Estes
Motor Designation	B6
Date Tested	2023-04-16
Average Total Impulse	4.07
Average Max Thrust	12.81
Average Burn Time	0.84
Average Thrust	4.99
Result	Measured values are within NFPA tolerances



Test ID	Delay	I-Total	f-Max	f-Avg	t-Burn	t-Delay	m-Init	m-Post	Lot ID
ESB6230401		4.14	15.18	5.82	0.71		16.00	8.00	I21 1021
ESB6230402		4.16	14.20	5.77	0.72		16.00	8.00	I21 1021
ESB6230403		3.90	14.76	5.32	0.73		16.00	10.00	I21 1021
ESB6230411	2	3.90	12.08	3.72	1.05	2.26	18.00	8.00	08-28
ESB6230412	2	3.94	11.89	3.67	1.08	1.79	16.00	10.00	08-28
ESB6230413	2	4.39	14.07	4.14	1.06	1.81	18.00	8.00	08-28
ESB6230421	4	4.32	12.26	5.49	0.79	4.06	18.00	10.00	E22 0622
ESB6230422	4	4.09	11.51	5.25	0.78	4.21	18.00	10.00	E22 0622
ESB6230423	4	4.28	12.03	5.54	0.77	3.69	18.00	12.00	E22 0622
ESB6230431	6	3.88	12.41	5.02	0.77	5.21	18.00	10.00	I21 1021
ESB6230432	6	4.01	11.79	5.17	0.78	5.39	18.00	10.00	I21 1021
ESB6230433	6	3.85	11.51	4.93	0.78	4.69	18.00	10.00	I21 1021
Average		4.07	12.81	4.99	0.84				
σ		0.18	1.29	0.72	0.13				
% σ		4.40	10.04	14.36	15.93				

Delay	Average	σ	% σ
2	1.96	0.22	11.18
4	3.99	0.22	5.44
6	5.10	0.30	5.84



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; Estes B6 RASP .ENG file
; File produced April 26, 2023 by NAR Standards & Testing
;
; Motor Diameter Length Delays Propellant_Mass(kg) Initial_Mass(kg) Manufacturer
B6 18 70 0-2-4-6 0.0065 0.0173 Estes
0.000 0.688
0.032 2.567
0.052 4.150
0.078 6.491
0.092 8.049
0.126 11.408
0.144 12.406
0.156 12.016
0.172 10.244
0.190 7.776
0.200 6.908
0.220 5.818
0.250 5.007
0.268 4.809
0.322 4.888
0.332 4.690
0.380 4.168
0.398 4.119
0.408 4.107
0.424 4.228
0.476 4.374
0.502 4.197
0.516 3.961
0.548 3.993
0.600 4.219
0.632 4.153
0.664 3.837
0.716 4.054
0.720 3.928
0.736 2.819
0.768 0.880
0.772 0.000
;

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