

Flight Results for Big Bullet Fall 2015

	FDS	Demo #1	Demo #2	Flight #3	Flight #4	Flight #5
Owners		Mr D	Mr D	Zach and David	Peter and Destiny	Patrick
Rocket Name		Big Sharky	Big Sharky	Verizon	Ralph the Coke Bottle	9mm Bullet
Rocket Type		ModelRockets.us	ModelRockets.us	Big Bullet	Big Bullet	Big Bullet
Rocket Mass		83.1g	83.1g	68g		71g
Motor Used		C6-5	C6-3	C6-5	C6-5	C6-5
Estimated Cd		0.5	0.5	0.5	0.5	0.5
Estimated Altitude		400 ft	325 ft			
Apogee Altitude		247 ft	364 ft	404 ft	487 ft	374 ft
Top Speed		75 mph	97 mph	95 mph	122 mph	98 mph
Burn Time	burn	2.27 s	2.8 s	2.42 s	1.78 s	2.22 s
Peak Acceleration	PAcc	7.96 g	6.8 g	8.1 g	11.0 g	6.9 g
Avg Accerleration	AAcc	1.5 g	2.1 g	1.8 g	3.1 g	2.0 g
Coast to Apogee	C2AP	2.2 s	3.1 s	3.5 s	4.0 s	3.3 s
Apogee to Eject	AP2E	1.5 s	-0.2 s	1.3 s	1.3 s	1.8 s
Ejection Altitude	EALt	221 ft	356 ft	378 ft	465 ft	330 ft
Descent Speed	dESc	15 mph	11 mph	10 mph	13 mph	37 mph
Flight Duration	durA	16.3 s	26.2 s	30.7 s	31.5 s	13.6 s
Notes		Windy, not a straight trajectory	windy but angled the launch rail with the wind about 30 degrees	Landed on the roof. Trajectory into the wind	Straight up, Altitude winner	late ejection, chute did not deploy but nose cone did

	FDS	Flight #6	Flight #7	Flight #8	Flight #9	Flight #10
Owners		Kourtney & Alex	Ben & Kyler	Hannah & Bianca	Tanner & Chris	Matt & Bryce
Rocket Name		Main Street Graffiti	Alive II	The Autumn	Sportscenter	Apple Rocket
Rocket Type		Big Bullet	Big Bullet	Big Bullet	Big Bullet	Big Bullet
Rocket Mass		77 g	70 g	66 g	69 g	70 g
Motor Used		C6-3	C6-5	C6-5	C6-5	C6-5
Estimate Cd						
Estimated Altitude						
Apogee Altitude		402 ft	333 ft	265 ft	397 ft	480 ft
Top Speed		110 mph	89 mph	85 mph	92 mph	118 mph
Burn Time	burn	1.99 s	2.3 s	2.31 s	2.5 s	1.78 s
Peak Acceleration	PAcc	7.6 g	8.8 g	8.66 g	8.2 g	10.8 g
Avg Accerleration	AAcc	2.5 g	1.8 g	1.76 g	1.7 g	3.0 g
Coast to Apogee	C2AP	2.9 s	2.9 s	2.2 s	3.5 s	3.7 s
Apogee to Eject	AP2E	-0.6 s	0.9 s	2.3 s	1.0 s	0.6 s
Ejection Altitude	EALt	380 ft	325 ft	208 ft	382 ft	480 ft
Descent Speed	dESc	11 mph	10 mph	14 mph	28 mph	10 mph
Flight Duration	durA	25.8 s	27 s	16.6 s	16 s	37.9 s
Notes		Chute tangled in the fins, descent turned sideways	Angled with the wind over did		No chute, nose cone only	

	FDS	Flight #11	Flight #12	Flight #13	Flight #14	Flight #15
Owners		Jason & Josh	Austin & Eric	Chandler & Tyler	Brent	Brittany
Rocket Name		Dre	Batman	Gatorade	Bullet Bill	The Flash
Rocket Type		Big Bullet	Big Bullet	Big Bullet	Big Bullet	Big Bullet
Rocket Mass		65 g	74 g	69.5 g	67 g	67.9 g
Motor Used		C6-5	C6-5	C6-5	C6-5	C6-3
Estimated Cd						
Estimated Altitude						
Apogee Altitude		463 ft	419 ft	357 ft	398 ft	457 ft
Top Speed		107 mph	103 mph	87 mph	91 mph	115 mph
Burn Time	burn	2.3 s	2.28 s	2.49 s	2.44 s	2.4 s
Peak Acceleration	PAcc	7.5 g	10.2 g	8.8 g	9.06 g	8.2 g
Avg Accerleration	AAcc	2.1 g	2.3 g	1.66 g	1.76 g	2.8 g
Coast to Apogee	C2AP	3.8 s	3.4 s	2.9 s	3.3 s	3.2 s
Apogee to Eject	AP2E	1.9 s	4.6 s	1.4 s	0.8 s	-0.6 s
Ejection Altitude	EALt	411 ft	416 ft	334 ft	396 ft	439 ft
Descent Speed	dESc	8 mph	31 mph	11 mpg	11 mph	9 mph
Flight Duration	durA	38.9 s	15.6 s	21.7 s	29.2 s	37.1 s
Notes						

	FDS	Flight #16	Flight #17			
Owners		Dakota	Ashley & Lexi			
Rocket Name		Skyliner	Spotify			
Rocket Type		Big Bullet	Big Bullet			
Rocket Mass		62 g	67.6 g			
Motor Used		C6-5	C6-5			
Estimated Cd						
Estimated Altitude						
Apogee Altitude		378 ft	409 ft			
Top Speed		91 mph	96 mph			
Burn Time	burn	2.31 s	2.48 s			
Peak Acceleration	PAcc	9.66 g	8.8 g			
Avg Accerleration	AAcc	1.8 g	1.86 g			
Coast to Apogee	C2AP	3.2 s	3.3 s			
Apogee to Eject	AP2E	1.8 s	0.6 s			
Ejection Altitude	EALt	338 ft	403 ft			
Descent Speed	dESc	10 mph	16 mph			
Flight Duration	durA	30.2 s	23.1 s			
Notes						