

Flight Results for Demo Flights 2015

	Flight #1	Flight #2	Flight #3	Flight #4	Flight #5
Owners	Brenda Janning & Kayla Hughes	Davis Johnson & Justin Lee	Mr D	Mr D	
Rocket Name	Got Milk	Uncle Sam	Cracker Jack	Cyclones	
Rocket Type	Arcas	G-Force	G-Force	Sumo	
Rocket Mass	577 g	1000 g	1033g	1005g	
Motor Used	G53-7FJ	G80-7T	G64-4W	G77-4R	
Estimated Cd	0.4	0.7	0.65	0.38	
Estimated Altitude	1300 ft	915 ft	775 ft	823 ft	
Apogee Altitude	1318 ft	1138 ft	607 ft	391 ft	
Top Speed	231 mph	204 mph	133 mph	163 mph	
Burn Time burn	1.56 s	1.64 s	2.8 s	1.4 s	
Peak Acceleration PAcc	10.2 g	7.4 g	5.8 g	7.0 g	
Avg Accerleration AAcc	6.8 g	5.7g	2.9 g	5.3 g	
Coast to Apogee C2AP	7.5 s	7.1 s	5.8 s	1.6 s	
Apogee to Eject AP2E	-7.5 s	-7.0 s	-0.6 s	-1.0 s	
Ejection Altitude EALt	369 ft	385 ft	582 ft	315 ft	
Descent Speed dESc	6 mph	5 mph	15 mph	10 mph	
Flight Duration durA	42.9 s	47.2 s	33.1 s	22.2 s	
Notes	Straight up flight, chute did not come out on ejection just the shock cords. Around 30 feet above the ground the parachute deployed	Straight up flight, no separation but came down on its side again!	Gust of wind during launch made the trajectory almost 45 deg into the wind.	Engine ignition issues caused the delay charge to light early and caused an early ejection.	