

# Flight Results for Demo Launches 2012

|                           | Demo #1  | Demo #2      | Demo #3                  | Demo #4   | Demo #5 |
|---------------------------|--|--------------|--------------------------|---|---------|
| Owners                    | Chelsea, Jordan,<br>Eric   | Mr. D        | Chelsea, Jordan,<br>Eric | Mr. D   |         |
| Rocket Name               | Air Jordan   | Tootsie Roll | Air Jordan               | NUMB3Rs   |         |
| Rocket Type               | Arcas  | Astrobee     | Arcas                    | G-Force   |         |
| Motor Used                | G80-10T  | G75-7M       | G38-7FJ                  | G76-4G  |         |
| Estimate Altitude         | 1802 ft  | 1265 ft      | 1211 ft                  | 832 ft  |         |
| Altimeter #               | -  | -            | -                        | -   |         |
| Apogee Altitude           | 2134 ft  | 1276 ft      | 1212 ft                  | 873 ft  |         |
| Top Speed                 | 373 mph  | 198 mph      | 205 mph                  | 144 mph   |         |
| Burn Time      burn       | 1.4 s  | 1.4 s        | 1.7 s                    | 1.4 s   |         |
| Peak Acceleration    PAcc | 18.3 g   | 9.9 g        | 12.5 g                   | 14.3 g  |         |
| Avg Accerleration    AAcc | 12.1 g   | 6.6 g        | 5.4 g                    | 4.6 g   |         |
| Coast to Apogee      C2AP | 9.1 s  | 7.4 s        | 7.3 s                    | 4.3 s   |         |
| Apogee to Eject      AP2E | 1.0 s  | 1.1 s        | - 0.9 s                  | -0.1 s  |         |
| Ejection Altitude    EALt | 2125 ft  | 1256 ft      | 1200 ft                  | 767 ft  |         |
| Descent Speed        dESc | 12 mph   | 7 mph        | 8 mph                    | 10 mph  |         |
| Flight Duration      durA | 123.2 s  | 117.4 s      | 103.9 s                  | 55.1 s  |         |
| Notes                     | Landed in tree by<br>golf course shed<br>#18. Lost launch<br>lug |              |                          | Damage to bottom<br>tube, coupler area and<br>nose cone top.<br>Landed east of<br>parking lot |         |