
: Flight Card :

Launch date: Sat Jun 14 2014
Launch site: Lucerne Dry Lake, CA
Flyer's name: Joe Rockeeter
Rocket name: Up Vector
Motor: K550
Expected alt: 5300 feet
Dual deploy: No

Comments: Nominal flight.
Recovered with no damage.

: Flight Results :

Max GPS altitude: 5426 feet AGL
Max Acc altitude: 5407 feet AGL
Max GPS velocity: 600 feet/sec 409.1 mph 0.545 Mach
Max Acc velocity: 589 feet/sec 401.4 mph 0.535 Mach
Max GPS Mach num: 0.546 Mach

Max Acceleration: 8.3 G's 266.6 feet/sec/sec

Motor burnout alt: 1082 feet AGL
Motor burn time: 3.2 sec (approx)

Ground speed at apogee: 34 feet/sec 23.2 mph
Heading at apogee: 175 degrees (from true north)

Descent rate on main: 29 feet/sec 20.1 mph
Touch down velocity: 27 feet/sec 18.5 mph

Time to apogee: 18.8 sec
Time on main: 2 min 57.9 sec
Total flight time: 3 min 16.7 sec

Lift off: 16:01:04.2 MDT 22:01:04.2 UTC
Apogee: 16:01:23.0 MDT 22:01:23.0 UTC
Touch down: 16:04:20.8 MDT 22:04:20.8 UTC

Launch pad coordinates: N 34° 29.7957' W 116° 57.5256'
Landing site coordinates: N 34° 29.7053' W 116° 57.0774'

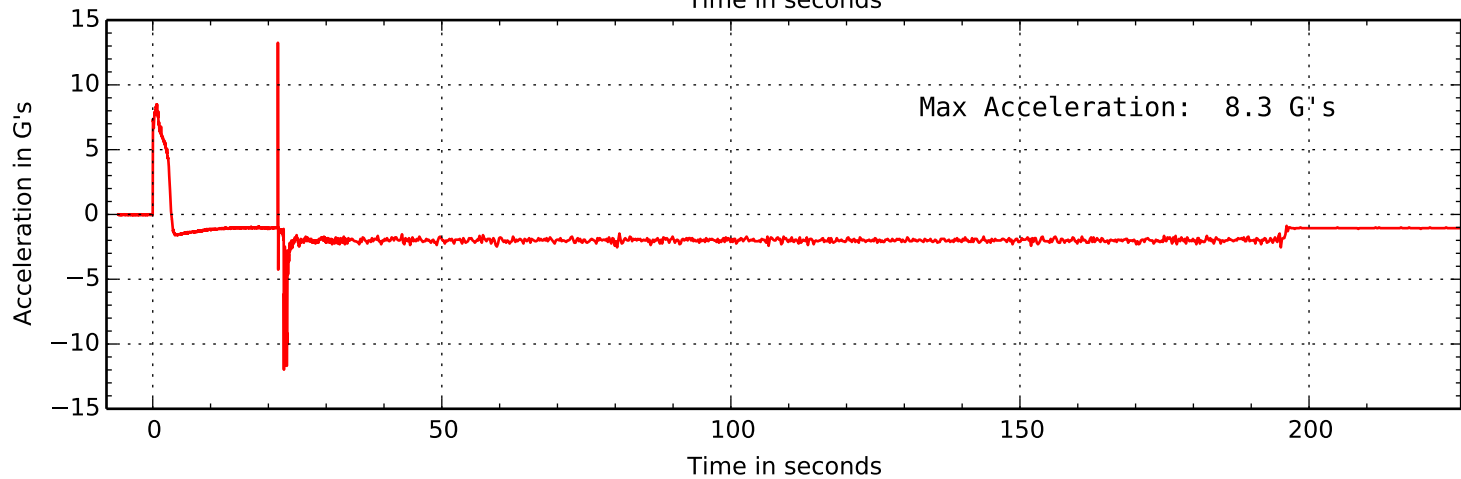
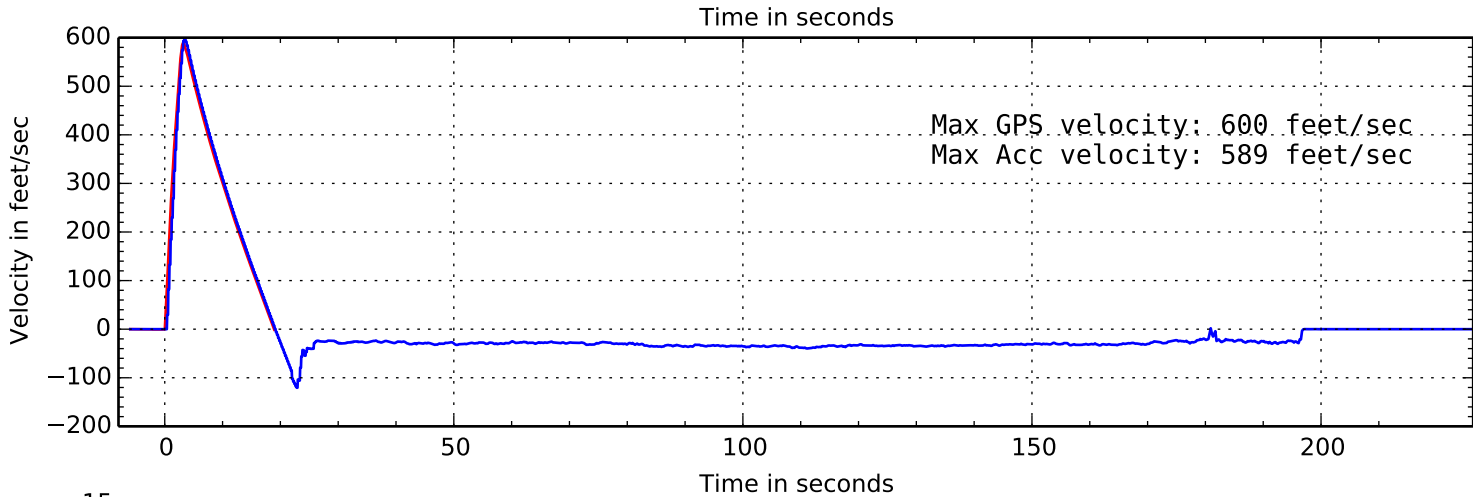
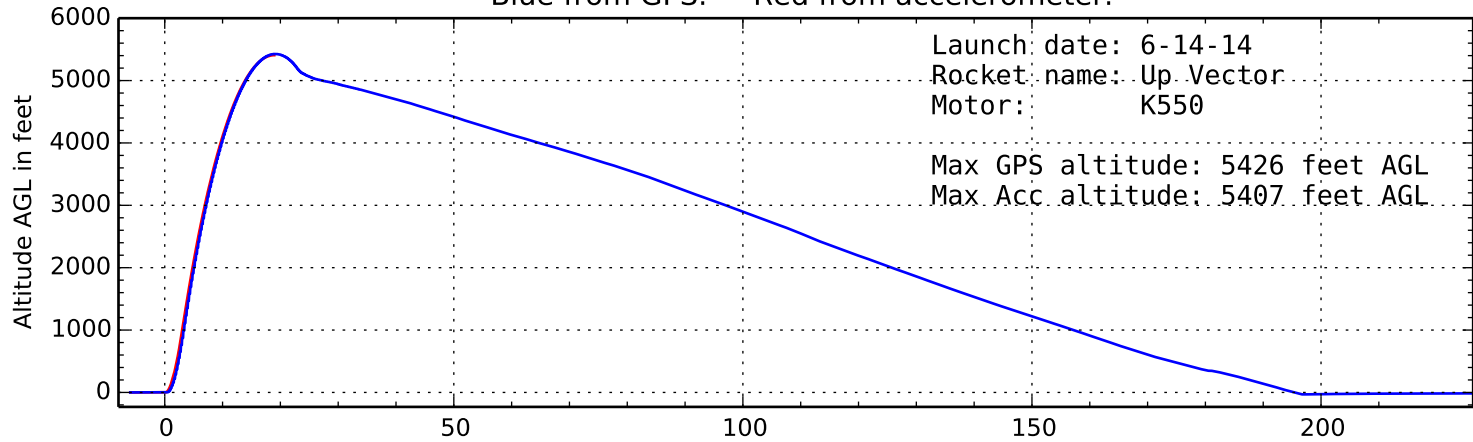
Distance to landing site: 2311 feet 0.44 miles
Bearing to landing site: 104 degrees (from true north)
Ground level: 2852 feet MSL

	Liftoff	Apogee	Landing
Battery:	4.05v	4.04v	4.03v
Temperature:	92°F	92°F	96°F

Transmitter serial num: Mx110A0206
Transmitter firmware: Rev:1.2.4.0 Build:140501.154215

Altitude, Velocity, and Acceleration

Blue from GPS. Red from accelerometer.



Altitude AGL

Blue from GPS. Red from accelerometer.

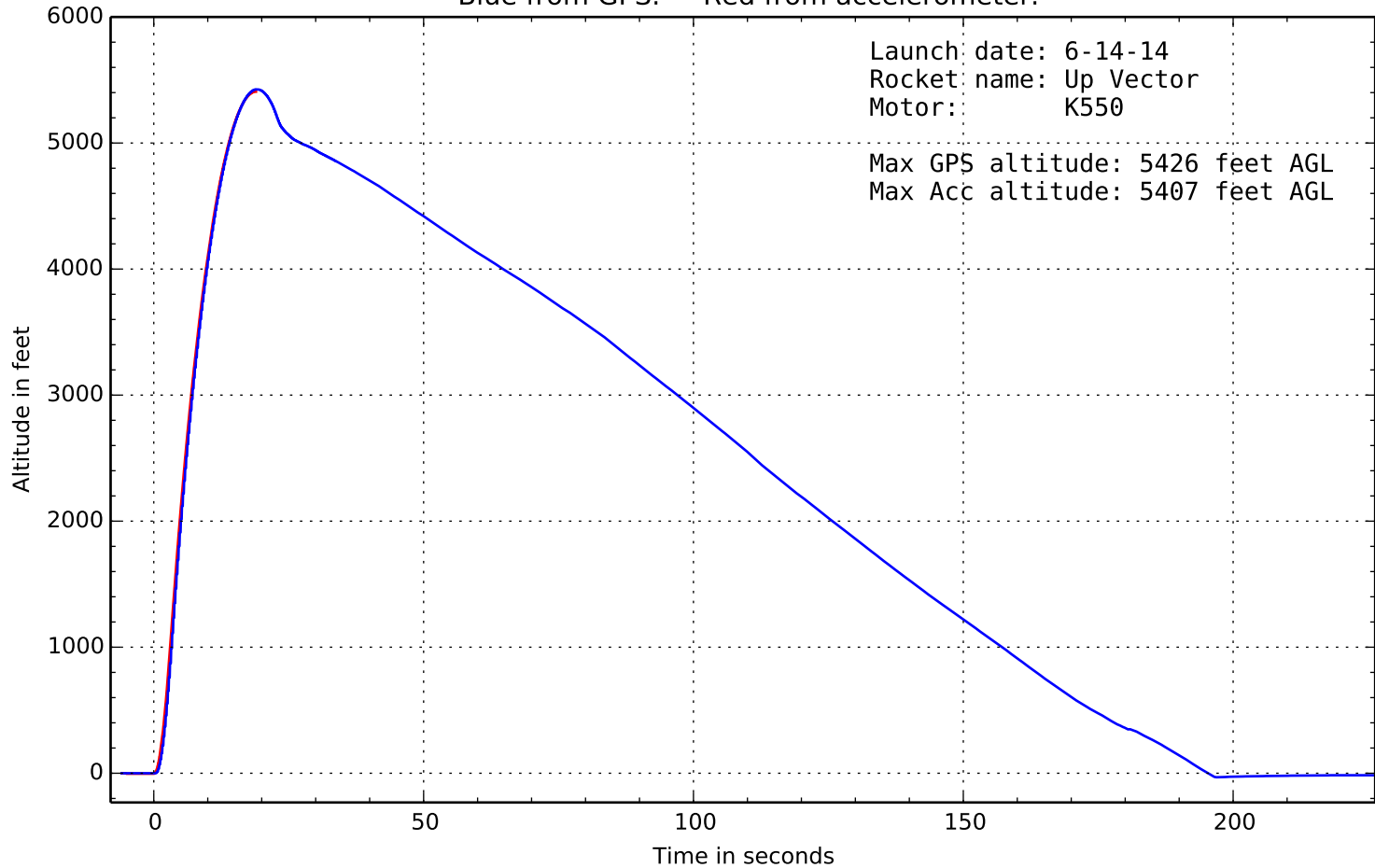
Launch date: 6-14-14

Rocket name: Up Vector

Motor: K550

Max GPS altitude: 5426 feet AGL

Max Acc altitude: 5407 feet AGL



Vertical Velocity

Blue from GPS. Red from accelerometer.

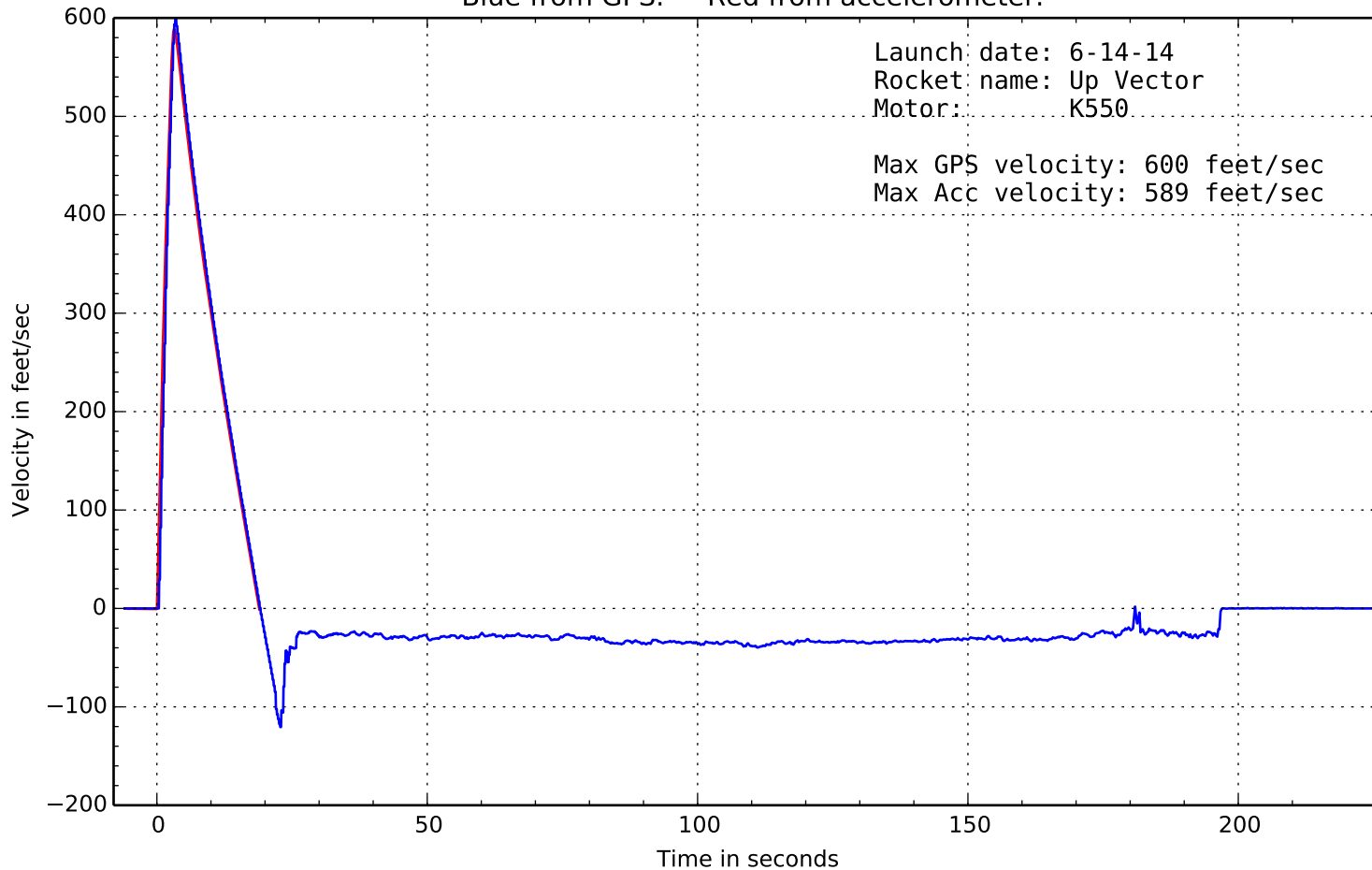
Launch date: 6-14-14

Rocket name: Up Vector

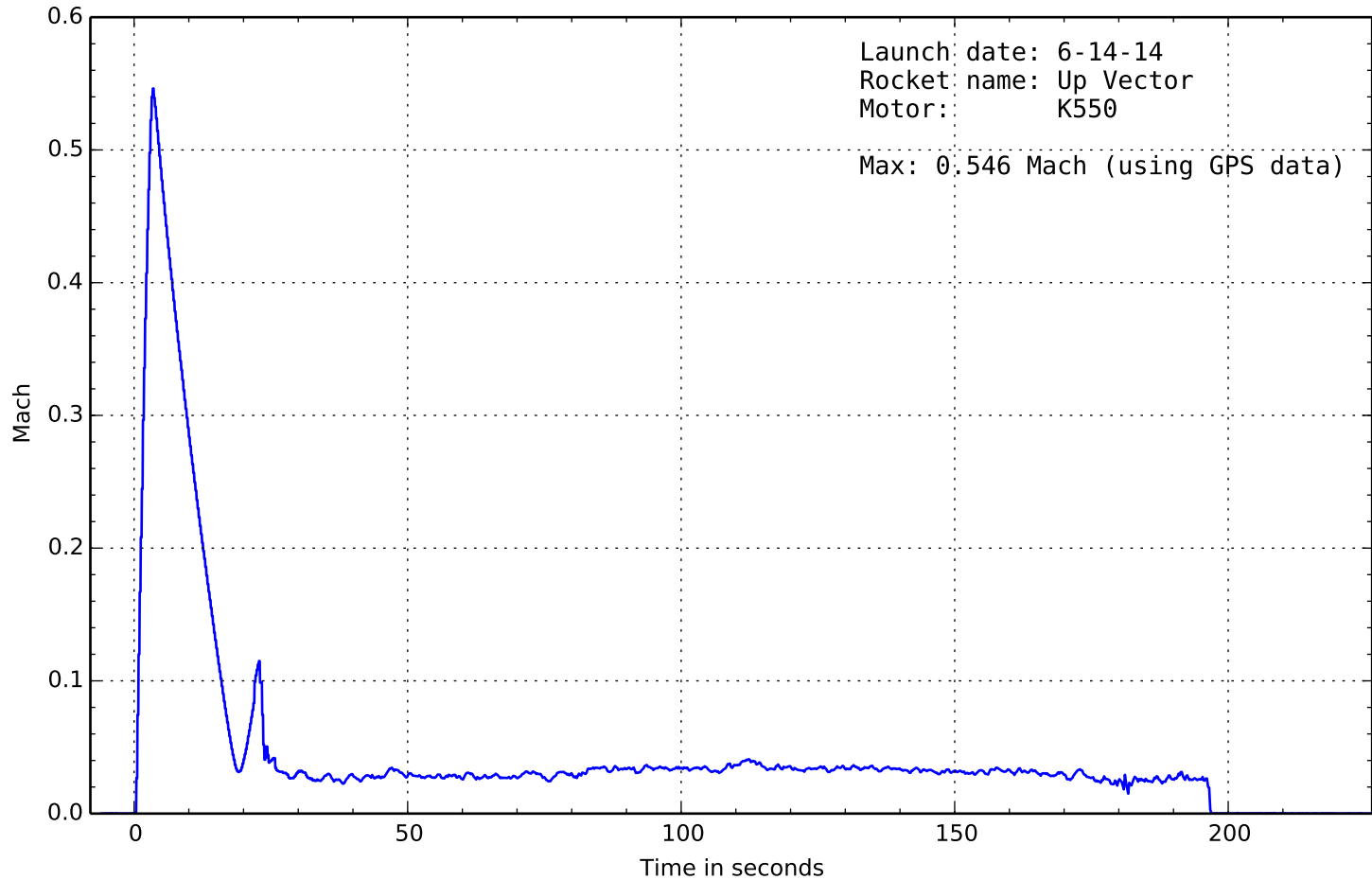
Motor: K550

Max GPS velocity: 600 feet/sec

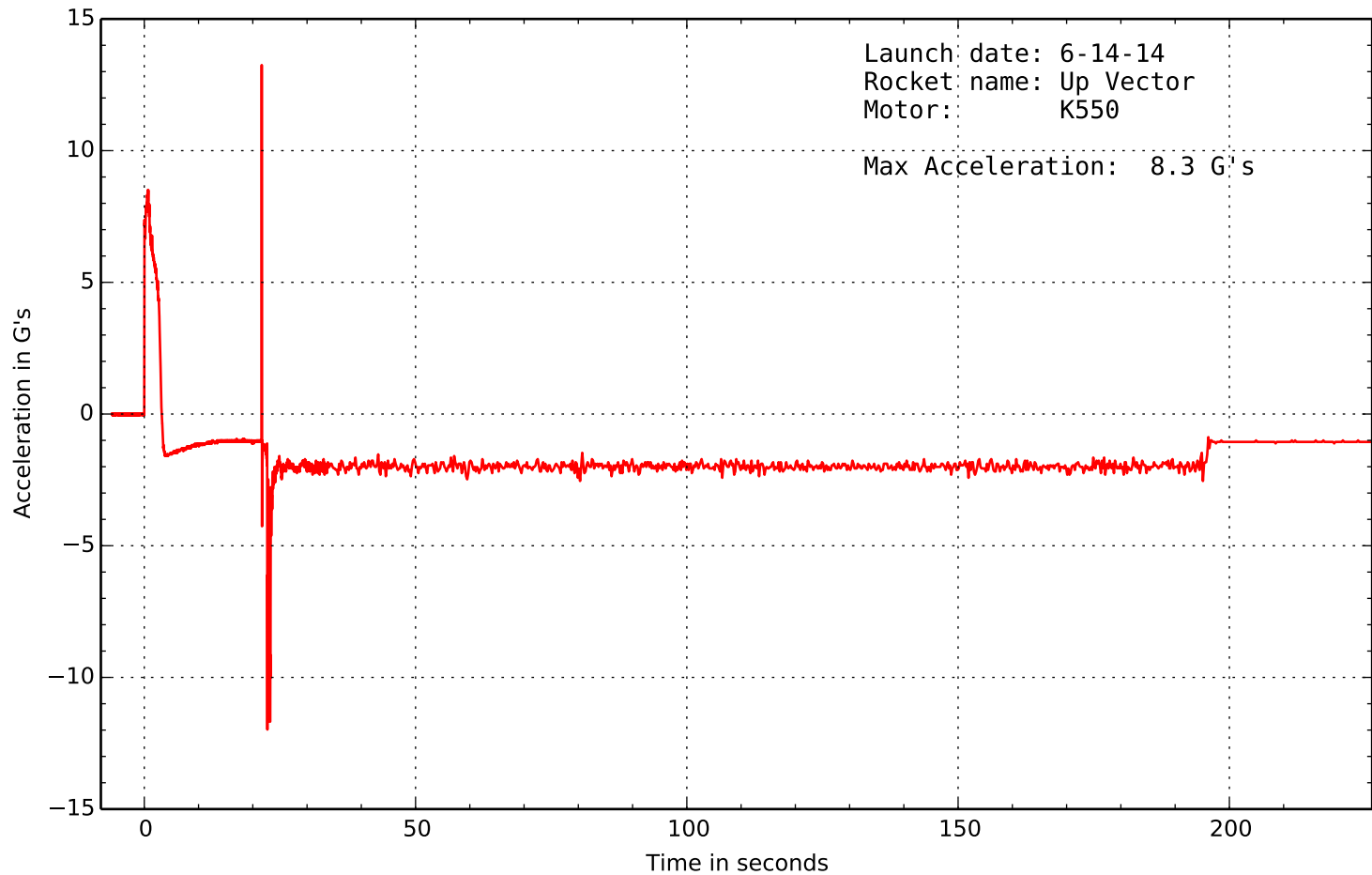
Max Acc velocity: 589 feet/sec



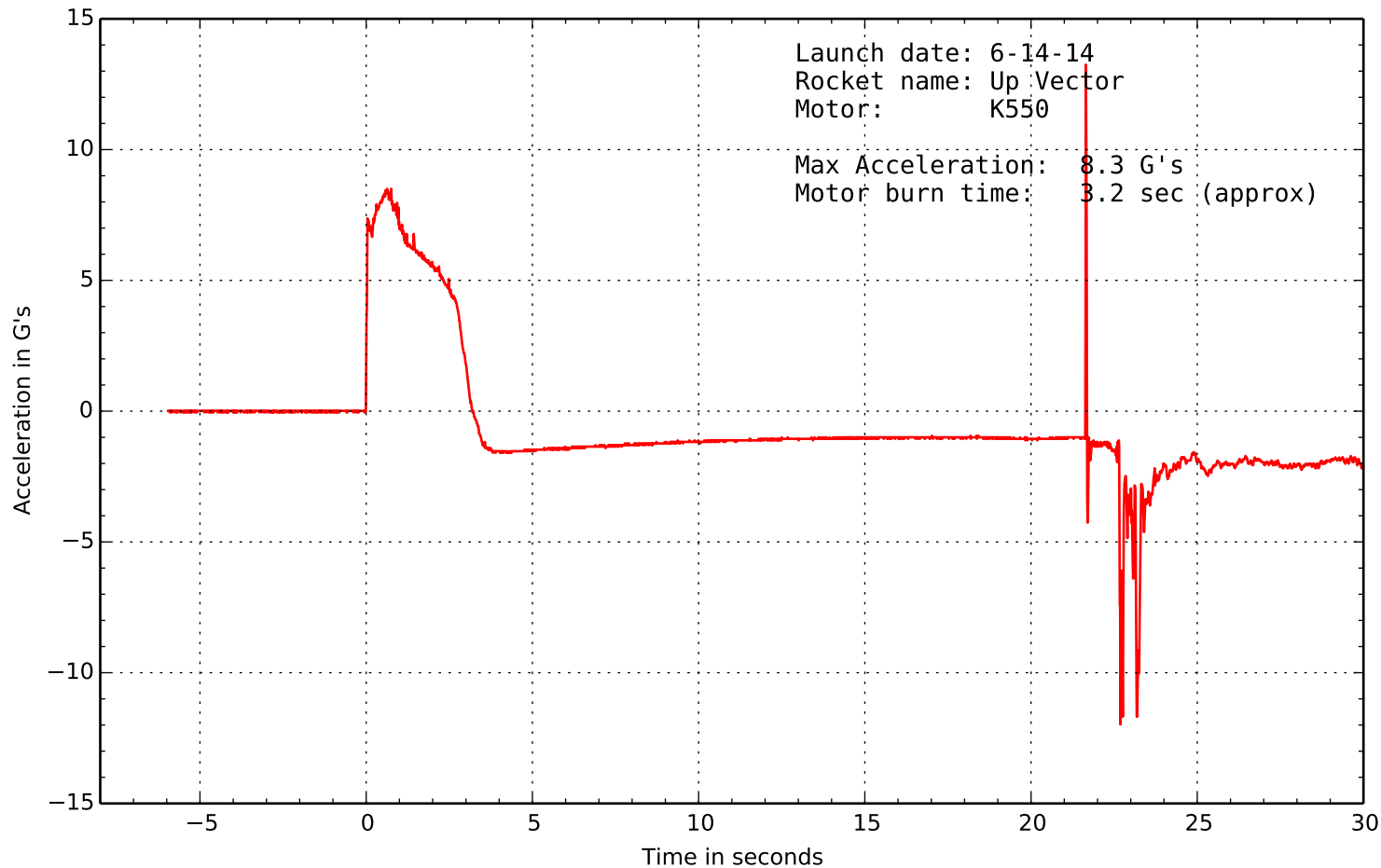
3D Velocity in Mach



Acceleration -- Full Flight



Acceleration -- Boost Phase



Ground Speed and Heading

