



FCC §15.247 (i), §2.1091 – RF Exposure

FCC ID: 2AMAZ-1001GOT1

Applied procedures / limit

According to FCC §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Note: f is frequency in MHz

* = Power density limit is applicable at frequencies greater than 100 MHz

Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz

* = Plane-wave equivalent power density



MPE PREDICTION

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density

P = power input to antenna

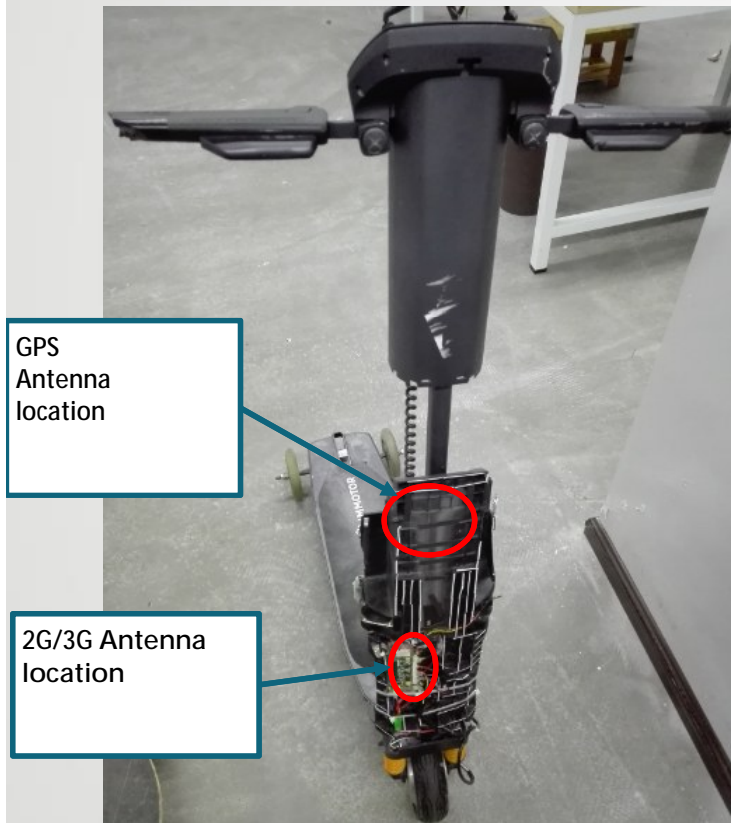
G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna, R=20cm

Test Result of RF Exposure Evaluation

	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Total Output power to antenna (mW)	Antenna Gain(dBi)	Total Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
GSM850	30±1.0	31	1258.93	2.0 (1.58)	0.395921	0.549	Pass
GPRS850	30±1.0	31	1258.93	2.0 (1.58)	0.395921	0.549	Pass
EGPRS850	29±1.0	30	1000.00	2.0 (1.58)	0.314490	0.549	Pass
GSM1900	29±1.0	30	1000.00	2.0 (1.58)	0.314490	1.000	Pass
GPRS1900	29±1.0	30	1000.00	2.0 (1.58)	0.314490	1.000	Pass
EGPRS1900	29±1.0	30	1000.00	2.0 (1.58)	0.314490	1.000	Pass
WCDMA	22±1.0	23	199.53	2.0 (1.58)	0.062750	1.000	Pass
HSDPA	22±1.0	23	199.53	2.0 (1.58)	0.062750	1.000	Pass
HSUPA	22±1.0	23	199.53	2.0 (1.58)	0.062750	1.000	Pass

GPS/2G/3G Antenna location and relevant sizes



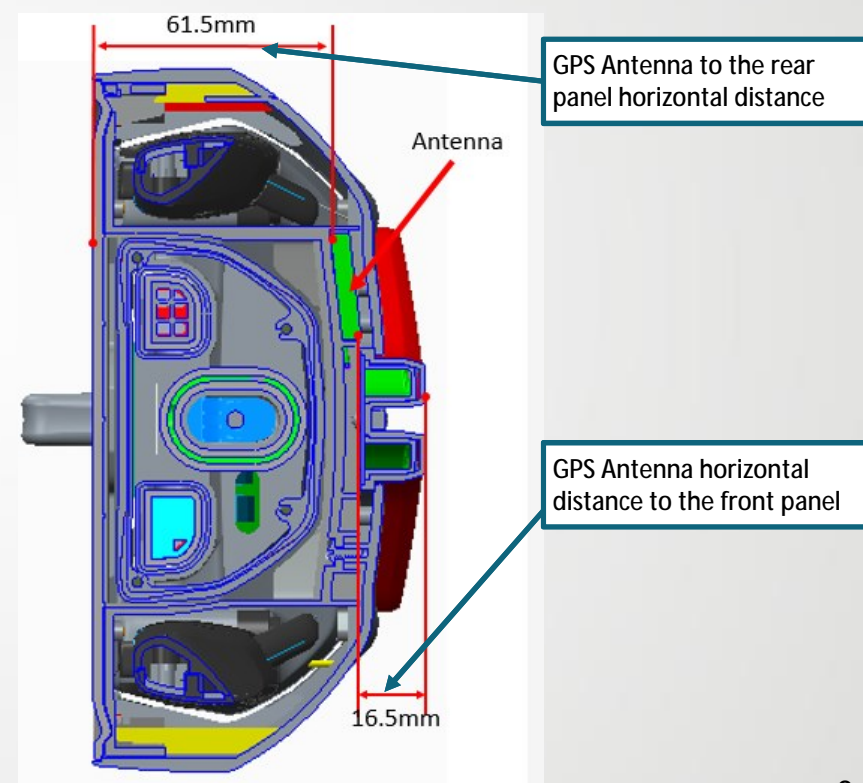
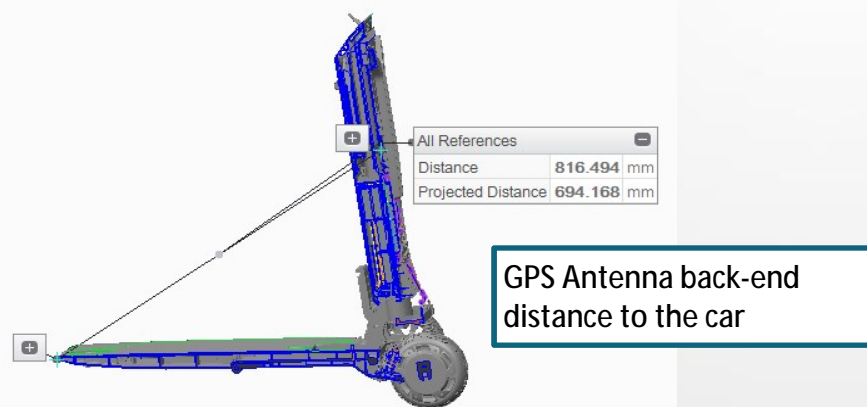
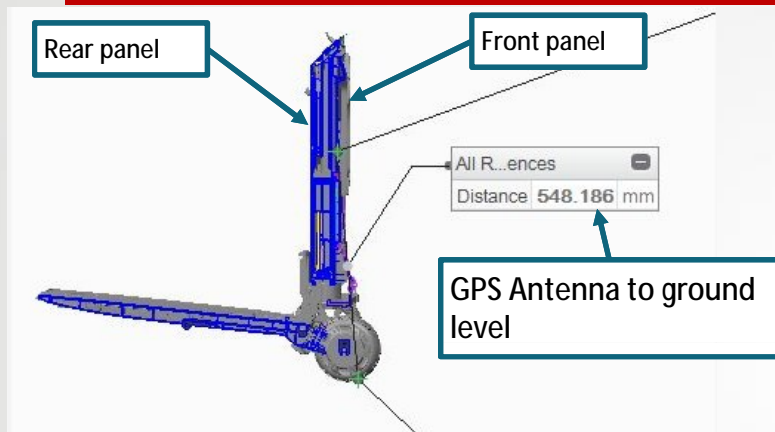
GPS Antenna Horizontal distance to the human body 351mm

A side-view photograph of a person standing on the scooter. A yellow measuring tape is held horizontally between the person's leg and the scooter's frame to measure the distance to the GPS antenna.

2G/3G Antenna Horizontal distance to the human body 351mm

A side-view photograph of a person standing on the scooter. A yellow measuring tape is held horizontally between the person's leg and the scooter's frame to measure the distance to the 2G/3G antenna.

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