

1 Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT: Pass

Test Specification

Test standard : CFR47 FCC Part 2: Section 2.1091 CFR47 FCC Part 1: Section 1.1310

FCC KDB Publication 447498 v06, section 7

> FCC requirements

FCC requirement: 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 limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20cm normally can be maintained between the user and the device.

MPE Calculation Method according to KDB 447498 v06

Power Density: $S_{(mW/cm^2)}$ = $PG/4\pi R^2$ or $EIRP/4\pi R^2$

Where:

 $S = power density (mW/cm^2)$

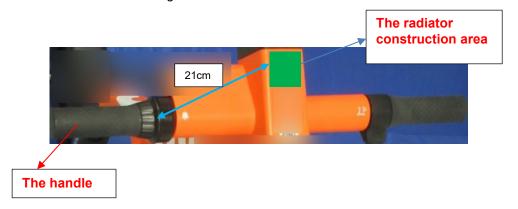
P = power input to the antenna (mW)

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 (cm)

From the peak RF output power, the minimum mobile separation distance, d=20 cm, as well as the antenna gain, the RF power density can be calculated as below:

This device is a scooter, when in normal use the nearest distance between the user and radiator is 21cm, the handle to radiator. Details as below diagram.





Products

EUT RF Exposure Evaluation standalone operations, worst case

	Maximum		e.i.r.p		_	
Test Mode	conducted Power including tune-up (dBm)	Antenna Gain (dBi)	(dBm)	(mW)	$S_{(mW/cm^2)}=$ PG/4 π R ²	Limit (mW/cm ²)
Cat-M1, LTE 2	21.5	3.3	24.80	302.00	0.0601	1.0
Cat-M1, LTE 4	21.5	3.27	24.77	299.92	0.0597	1.0
Cat-M1, LTE 12	22.0	-1.83	20.17	103.99	0.0207	0.474
Cat-M1, LTE 13	22.5	-2.03	20.47	111.43	0.0222	0.521
2.4GHz Wi-Fi	20.0	3.84	23.84	242.10	0.0482	1.0

Note: Simultaneous transmission not supported.

[&]quot;RF Radiation Exposure Statement Caution: This Transmitter must be installed to provide a separation distance of at least 20 cm from all persons."