

MAXIMUM PERMISSIBLE EXPOSURE (MPE) (FCC)

Standard Applicable

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

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

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SGS Taiwan Ltd.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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Maximum Permissible Exposure (MPE) Evaluation

3M EDR mode (Peak):

Channel	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402.00	5.94	3.926	125
39	2441.00	5.73	3.741	125
78	2480.00	6.21	4.178	125

MPE Prediction (BT)

Prediction of MPE limit at a given distance

Equation from page 18 of 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

Max. output power including tune-up tolerancel:	6.21	(dBm)
Max. output power including tune-up tolerancel:	4.1783037	(mW)
Duty cycle:	78	(%)
Maximum Pav :	3.2590769	(mW)
Peak Antenna gain (Maximum):	2.98	(dBi)
Peak Antenna gain (linear):	1.9860949	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2480	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.001	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.001 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 2480MHz.

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MAXIMUM PERMISSIBLE EXPOSURE (MPE) (IC)

Standard Applicable:

According to RSS 102 March 19,2015 issue 5 §2.5.2 RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $22.48/f^{0.5}W$ (adjusted for tune-up tolerance), where f is in MHz;

at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834} W$ (adjusted for tune-up tolerance), where f is in MHz;

This is a Mobile device, at which separation distance between the user and the device's antenna is 20cm. Therefore, section 2.5.2 shall be complied with

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Maximum Permissible Exposure (MPE) Evaluation

Maximum average output power at antenna input	6.21	(dBm)
Maximum average output power at antenna input	4.1783037	(mW)
Antenna gain (Peak):	2.98	(dBi)
Maximum antenna gain:	1.9860949	(numeric)
Frequency	2480	MHz
Limit	2.7355	W

Evaluation Result

The radiated power is $6.21 + 2.98 = 9.19$ dBm(EIRP) = 8.299 mW = 0.008299 W that is less than or equal to 2.7355 W. Hence, following section 2.5.2 of RSS102 issue RF exposure evaluation is no longer required.

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