

FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

1.1 **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 §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time		
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

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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

^{* =} Plane-wave equipment power density



Maximum Permissible Exposure (MPE) Evaluation

Prediction of MPE limit at a given distance

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

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

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. output Power (dBm)	Antenna Gain (dBi)	Max. output Power EIRP (mW)	Density	Limit (mW/cm²)	Pass / Fail
BT	2402	20	11.28	2.37	23.17	0.005	1.000	Pass
WLAN 2.4G	2437	20	16.78	2.37	82.22	0.016	1.000	Pass
WLAN 5G	5180	20	15.83	5.94	150.31	0.030	1.000	Pass

Operation Mode	Power Density (mW/cm²)	Limit (mW/cm²)	Power Density / Limit	Σ(E- Field Strength / Limit)	Pass / Fail
BT	0.005	1.00	0.005		
WLAN 2.4G	0.016	1.00	0.016	0.0510	Pass
WLAN 5G	0.030	1.00	0.030		

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

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