1 最大暴露允許值 (MAXIMUM PERMISSIBLE EXPOSURE, MPE)

1.1 規範要求

依據 NCC 低功率射頻電機技術規範之 5.20.2，其發射機距離人體 20 公分以上者，需證明其符合電波暴露量之要求，限制值如下:

(1) 職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm^2)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	6
3-30	1842/f	4.89/f	*900/f^2	6
30-300	61.4	0.163	1.0	6
300-1,500	-----	-----	f/300	6
1,500-100,000	-----	-----	5.0	6

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

(2) 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm2)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	30
3-30	1842/f	4.89/f	*180/f2	30
30-300	27.5	0.073	1.0	30
300-1,500	-----	-----	f/1500	30
1,500-100,000	-----	-----	1.0	30

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

1.2 適用種類

此待測物，為一般市面上販售，固適用表 2)之限制值

1.3 最大暴露允許值之評估

僅以最差模式進行評估，評估結果請見下頁。

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.
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BLE

Frequency (MHz)	Avg. Power (dBm)	Avg. Power (W)	Limit (W)
2402.00	2.92	0.00196	1
2442.00	3.03	0.00201	1
2480.00	**3.24**	0.00211	1

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

S = 功率密度 P = 傳導功率 G = 天線增益值 R = 人體與天線之距離

Max. output power including tune-up tolerancel:	3.24	(dBm)
Max. output power including tune-up tolerancel:	2.10862815	(mW)
Duty cycle:	100	(%)
Maximum Pav :	2.10862815	(mW)
Peak Antenna gain (Maximum):	0.5	(dBi)
Peak Antenna gain (linear):	1.12201845	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2480	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at predication frequency at 20 (cm) distance	0.0005	(mW/cm^2)

運算之結果:

當功率密度在 20 cm，其最大暴露值為 0.0005 mW/cm^2.

註:工作頻率為頻率範圍1,500-100,000 (MHz), 固其對應之限制值為1.0mW/cm^2.

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