



RF Exposure evaluation

Model: **BLE Link 8413-001**

FCC ID **2ARHA-C00005**

RF Exposure Evaluation

Standards
OET Bulletin 65 Edition 97-01 August 1997
FCC 47 CFR §1.1307
FCC 47 CFR §1.1310

Test limits

As specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure.

Frequency range (MHz)	Power density (mW/cm ²)
300 – 1,500	f/1500
1,500 – 100,000	1.0

Equation OET bulletin 65, page 18, edition 97-01:
$$S = \frac{PG}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$$

Where:

S = power density

P = power input to the 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

Following max. antenna gain values were considered as far as they apply:

Part	Cable length	Type	Avg. gain	Max. gain
2J6602B-050LL100-C20NST	0,5 m	Puck Antenna	-3.1 dB	4.9 dBi
2J6602B-250LMR100-C20N	2 m	Puck Antenna	-3.1 dB	4.9 dBi
Taoglas , WSA.2400.A.101151	1 m	Flatbar Antenna	-2.49 dBi	2.21 dBi



Band	Mode	Duty Cycle	Frequency (MHZ)	Maximum Conducted output power (dBm)	Equivalent conducted output power (mW)	FCC MPE Limit (mW/cm ²)	MPE Value using Max gain	Separation distance (cm)	Verdict
Bluetooth	GFSK 1-DH1	100.0%	2441.0	7.8	6.03	1000	0.0037	20	PASS

Yours sincerely,

A handwritten signature in blue ink that reads 'Imad Hjije'.

Imad Hjije