

RF Exposure

FCC ID: 2AU37MX5PE

1. Regulation

Regulation : KDB 447498 D04 (Interim General RF Exposure Guidance v01)

2.1 RF Exposure Test Exemptions for Single Sources

2.1.2 1-mW Test Exemption

Per § 1.1307(b)(3)(i)(A), a single RF source is *exempt RF device* (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions.

This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

2. Result

According to the calculation formula of power:

$$\text{E.R.P. [dBm]} = \text{E [dBuV/m]} + 20\log(\text{d [m]}) - 104.77 - 2.15$$

Where:

E is electric field strength in dBuV/m;

d is measurement distance in meters (m);

E.R.P. [dBm] is the equivalent radiated power in dBm

Mode	Frequency (MHz)	Maximum field strength @300m (dBuV/m)	Maximum field strength @30m (dBuV/m)	Maximum field strength @3m (dBuV/m)	Calculated E.R.P. (dBm)	Maximum Output power (mW)
NFC	13.56	-	24.25	64.25	-33.13	0.000 486 68