

RF Exposure Compliance Requirement

Model no.: MR-A1

Calculation formula:

$$E (V/m) = (30 * P * G) 0.5/d$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between EUT and antenna (m)

Remark: $E(V/m) = 10^{X(dBmV/m)/20} \times 10^{-6}$

$$PG = (E * d)^2 / 30$$

in the formula above, d=3m, field strength= 65dBuV/m (max described by client),

So $ERP = PG = 0.0005 \text{ mW}$

The product belongs to **standalone portable device** base the FCC rule part 2.1091&2.1093. The transmission frequencies of the device are between 300 MHz and 6 GHz.

In KDB 447498 D04 Interim General RF Exposure Guidance v01: 2.1.2 1-mW Test Exemption:

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.

Transmit Frequency (MHz)	Effective Radiated Power (ERP) (mW)	1 mW Test Exemption limit (mW)
315	0.0005	1

According to SAR Exclusion Threshold in KDB 447498 D04 Interim General RF Exposure Guidance v01, the SAR report is not required.

Test Location:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

All tests were performed at:

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China