Job No.: 240528142GZU
FCC ID: 2AB4J-CRLA

## SAR test exclusion evaluation compliance requirement

**Model no.:** CRLA

**1. KDB 447498 D01 v06 requirement**

Standalone SAR test exclusion considerations:

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: $E(V/m)=10^{X\,(dBUV/m)\,/20}\times10^{-6,}$ $P=(E*d)^2/30G$

Or $ERP=PG=(E*d)^2/30$, EIRP= ERP+2.15 dB

in the formula above, d=3m, field strength=91.4dBuV/m (max described by client),

So P=0.42 mW

The worst case test separation distance is **5mm.**

The product belongs to **standalone portable device** base the FCC rule part 2.1091&2.1093. The transmission frequencies of the device are between 100 MHz and 6 GHz.

In KDB 447498 D01 v06: 4.3.1 Standalone SAR test exclusion considerations:

The SAR Test Exclusion Threshold is calculated from:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation 17
- The result is rounded to one decimal place for comparison

The Max Conducted Output Power and SAR Test Exclusion Threshold (mW) are listed below:

| Transmit Frequency (MHz) | Output power (mW) | SAR Test Exclusion Threshold (mW) |
|---|---|---|
| 2435-2455 | 0.42 | 9.6 |

According to SAR Exclusion Threshold in KDB 447498 (D01) General RF Exposure Guidance v06, 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