

# RF Exposure Evaluation Report

## 1 Product Information

Product Name: 2.4G Remote Control  
 Model No.: RC-2.4G-01  
 FCC ID: 2BHKH-RC24G01

## 2. RF Exposure Evaluation

FCC KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices.

### 2.1 LIMITS

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

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

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

### 2.2 EUT RF EXPOSURE EVALUATION

The Max Conducted Power data refer to report Report No.: POCE240307002RF001

| Worst Mode: GFSK-2426MHz |                       |                         |                       |      |                  |       |
|--------------------------|-----------------------|-------------------------|-----------------------|------|------------------|-------|
| Channel (MHz)            | Conducted Power (dBm) | Tune up Tolerance (dBm) | Maximum tune-up Power |      | Calculated value | Limit |
|                          |                       |                         | (dBm)                 | (mW) |                  |       |
| 2426                     | -18.10                | -18±1                   | -17.0                 | 0.02 | 0.006            | 3.0   |

dbm=dbuv/m-95.2, so the 2.4G-2426MHz power is  $77.10-95.2 = -18.10$  dBm

Calculated value  $0.006 < 3.0$ , So there is no require SAR test