

# RF Exposure Evaluation Statement

**Product Name:** Bluetooth Earphones

**Model No.:** RW-T52

**FCC ID:** W6R-EB-T52

## 1.1 RF Exposure Compliance Requirement

### 1.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 1.1.2 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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$  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<sup>17</sup>

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

### 1.1.3 EUT RF Exposure

| Operational Mode: EDR (8-DPSK worst case) |                                              |                           |                       |      |                  |                     |
|-------------------------------------------|----------------------------------------------|---------------------------|-----------------------|------|------------------|---------------------|
| Channel                                   | Maximum Peak Conducted Output Power<br>(dBm) | Tune up tolerance<br>(dB) | Maximum tune-up Power |      | Calculated value | Exclusion threshold |
|                                           |                                              |                           | (dBm)                 | (mW) |                  |                     |
| 2402MHZ                                   | 6.27                                         | $\pm 1$                   | 7.27                  | 5.33 | 1.65             | 3.0                 |
| 2441MHz                                   | 6.17                                         | $\pm 1$                   | 7.17                  | 5.21 | 1.63             |                     |
| 2480MHz                                   | 5.26                                         | $\pm 1$                   | 6.26                  | 4.23 | 1.33             |                     |