# **RF Exposure Evaluation Statement**

Product Name: Car Kit Bluetooth Module

Model No.: BT-MC89-JK1, BT-MC89-1A, BT-MC89-JK1A, BT-MC89-JK1B,

BT-MC89-JK1C

**FCC ID**: ZWY89072

# 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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f}(GHz)] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

f(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

#### Operational Mode: EDR (8-DPSK worst case) Maximum tune-up Power Maximum Peak (dBm) (mW) Tune up Conducted Calculated Exclusion Channel tolerance Output value threshold (dB) Power (dBm) 0.02 2402MHz $\pm 1$ 1.02 1.26 0.39 0.27 ±1 2441MHz 1.27 1.34 0.42 3.0 0.11 ±1 2480MHz 1.11 1.29 0.41 Operational Mode: BLE (worst case) $\pm 1$ 2402MHz 0.92 1.92 1.56 0.48 3.0 ±1 2442MHz 1.22 2.22 1.67 0.52 2480MHz 0.98 $\pm 1$ 0.50 1.98 1.58 Conclusion: the calculated value $\leq$ 3.0, SAR is exempted.

## 1.1.3 EUT RF Exposure