



## CTC Laboratories, Inc.

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### Maximum RF Exposure Evaluation

FCC ID: 2A2TQ-WS-858

According to KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

#### EUT Specification

|                            |                                                                                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:              | Wireless Karaoke Microphone                                                                                                                                                                                                    |
| Trade Mark:                | hipifun4u, litofelo, Riya, kizsbro, Isner Mile, ZPM, Comfy Mate                                                                                                                                                                |
| Model/Type reference:      | WS-858                                                                                                                                                                                                                         |
| Listed Model(s):           | N/A                                                                                                                                                                                                                            |
| Frequency band (Operating) | <input checked="" type="checkbox"/> BT/EDR: 2.402GHz ~ 2.480GHz<br><input checked="" type="checkbox"/> BLE: 2.402GHz ~ 2.480GHz<br><input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz<br><input type="checkbox"/> Others:      |
| Device category            | <input checked="" type="checkbox"/> Portable (<5mm separation)<br><input type="checkbox"/> Mobile (>20cm separation)<br><input type="checkbox"/> Fixed (>20cm separation)<br><input type="checkbox"/> Others                   |
| Antenna diversity          | <input checked="" type="checkbox"/> Single antenna<br><input type="checkbox"/> Multiple antennas<br><input type="checkbox"/> Tx diversity<br><input type="checkbox"/> Rx diversity<br><input type="checkbox"/> Tx/Rx diversity |
| Antenna gain (Max)         | 0dBi                                                                                                                                                                                                                           |
| Evaluation applied         | <input checked="" type="checkbox"/> RF Exposure Evaluation<br><input type="checkbox"/> SAR Evaluation                                                                                                                          |

#### Limit

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$

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 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 according to 4.1 f) is applied to determine SAR test exclusion.

#### Measurement Result

| Band   | Frequency (MHz) | Antenna Gain (dBi) | Maximum Power (dBm) | Tune up tolerance (dBm) | Max. Tune up Power (dBm) | Calculation Value | Limit |
|--------|-----------------|--------------------|---------------------|-------------------------|--------------------------|-------------------|-------|
| BT/EDR | 2441            | 0                  | 4.31                | $4 \pm 1$               | 5                        | 0.988             | 3.000 |
| BLE    | 2440            | 0                  | 3.59                | $3 \pm 1$               | 4                        | 0.785             | 3.000 |

#### Note

For a more detailed features description, please refer to the RF Test Report.

\*\*\*\*\*THE END\*\*\*\*\*

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