



# RF Exposure Evaluation

## FCC ID: AUSCR6037BT

### 1. Client Information

|                     |   |  |
|---------------------|---|--|
| <b>Applicant</b>    | : | Modern Marketing Concepts, Inc.  |
| <b>Address</b>      | : | 1220 E Oak, St. Louisville Kentucky United States 40204  |
| <b>Manufacturer</b> | : | Jiangxi Jiaying Culture Technology Company Limited   |
| <b>Address</b>      | : | K3-17. Electronical Information Science and Technology Park<br>Longnan Technical Economic Development Area, Ganzhou City,<br>Jiangxi Province, China |

### 2. General Description of EUT

|   |   |  |
|---|---|--|
| <b>EUT Name</b>   | : | MINI TURNTABLE & 3 RECORD CARRYING CASE  |
| <b>Model(s) No.</b>   | : | CR6037BT-BE, CR6037BT-XX (XX represent the color code, they can be replaced by letters from A to Z)                                    |
| <b>Model Difference</b>   | : | All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance color and model name. |
| <b>Product Description</b>  | : | Operation Frequency: Bluetooth 5.3(BR+EDR): 2402MHz~2480MHz  |
|   | : | Number of Channel: 79 channels   |
|   | : | Antenna Gain: -0.58dBi PCB Antenna   |
|   | : | Modulation Type: GFSK, Pi/4-DQPSK, 8-DPSK  |
| <b>Power Supply</b>   | : | Input: DC 5V500mA  |
| <b>Software Version</b>   | : | V1.0   |
| <b>Hardware Version</b>   | : | V1.0   |
| <b>Remark:</b> The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab. |   |  |

**Note:** More test information about the EUT please refer the RF Test Report.

## SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance  $\leq 5$  mm are determined by:

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

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f(\text{GHz})}]}{\leq 7.5.0 \text{ for 10-g SAR}}$$



**2. Calculation:**

| Test separation: 5mm        |                       |                              |                                      |                                     |                   |                 |
|-----------------------------|-----------------------|------------------------------|--------------------------------------|-------------------------------------|-------------------|-----------------|
| Bluetooth Mode (GFSK)       |                       |                              |                                      |                                     |                   |                 |
| Frequency (GHz)             | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (dBm) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402                       | 1.273                 | 1±1                          | 2                                    | 1.585                               | 0.491             | 3.0             |
| 2.441                       | 1.757                 | 1±1                          | 2                                    | 1.585                               | 0.495             | 3.0             |
| 2.480                       | 1.969                 | 1±1                          | 2                                    | 1.585                               | 0.499             | 3.0             |
| Bluetooth Mode (Pi/4-DQPSK) |                       |                              |                                      |                                     |                   |                 |
| Frequency (GHz)             | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (dBm) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402                       | 2.123                 | 2±1                          | 3                                    | 1.995                               | 0.618             | 3.0             |
| 2.441                       | 2.589                 | 2±1                          | 3                                    | 1.995                               | 0.623             | 3.0             |
| 2.480                       | 2.690                 | 2±1                          | 3                                    | 1.995                               | 0.628             | 3.0             |
| Bluetooth Mode (8-DPSK)     |                       |                              |                                      |                                     |                   |                 |
| Frequency (GHz)             | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (dBm) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402                       | 2.566                 | 2±1                          | 3                                    | 1.995                               | 0.618             | 3.0             |
| 2.441                       | 2.963                 | 2±1                          | 3                                    | 1.995                               | 0.623             | 3.0             |
| 2.480                       | 3.076                 | 3±1                          | 4                                    | 2.512                               | 0.791             | 3.0             |

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

-----END OF THE REPORT-----

