Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE145585

Page: 1 of 3

RF Exposure Evaluation FCC ID: 2AF5JER-M127C

1. Client Information

Applicant : Shenzhen E-Ran Technology Co., Ltd

Address: 6 Floor, Block 9A, Xiangjiang Industrial Park, Songbai Road, Shiyan

Town, Baoan District, Shenzhen, China

Manufacturer : Shenzhen E-Ran Technology Co., Ltd

Address : 6 Floor, Block 9A, Xiangjiang Industrial Park, Songbai Road, Shiyan

Town, Baoan District, Shenzhen, China

2. General Description of EUT

| EUT Name | | Bluetooth MP4 | | | | |
|------------------------|---|---|--|--|--|--|
| Models No. | : | ER-M127C | | | | |
| Model difference | 1 | N/A | | | | |
| Product Description | | Operation Frequency: Bluetooth:2402~2480MHz | | | | |
| | | Number of Channel: | Bluetooth:79 Channels | | | |
| | | Max Peak Output Power: | Bluetooth: 4.24 dBm(GFSK) | | | |
| | | Antenna Gain: | 0 dBi PCB Antenna | | | |
| | | Modulation Type: | GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps) | | | |
| Power Supply | : | DC Voltage supplied by AC/DC Adapter. DC power by Li-ion Battery. | | | | |
| Power Rating | : | AC/DC Adapter: Input: AC 100~240V 50/60Hz 0.5A Output: DC 5V 2A. DC 3.7V 160mAh Li-ion Battery. | | | | |
| Connecting I/O Port(S) | | Please refer to the User's Manual | | | | |

Note:

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

TB-RF-074-1. 0

Tel: +86 75526509301 Fax: +86 75526509195



Report No.: TB-MPE145585

Page: 2 of 3

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (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≤5 mm are determined by:

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

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



Report No.: TB-MPE145585

Page: 3 of 3

2.

Calculation:

| | | Bluetooth Mode | (CESK) | | |
|---------------------------------|-----------------------------|------------------------------------|--|----------------------|--------------------|
| Frequency (GHz) | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402 | 3.780 | ±0.5 | 2.679 | 0.830 | 3.0 |
| 2.441 | 4.060 | ±0.5 | 2.858 | 0.893 | 3.0 |
| 2.480 | 4.240 | ±0.5 | 2.979 | 0.938 | 3.0 |
| | | Bluetooth Mode (π | /4-DQPSK) | U.H.D. | |
| Frequency (GHz) | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402 | 4.080 | ±0.5 | 2.871 | 0.890 | 3.0 |
| 2.441 | 4.030 | ±0.5 | 2.838 | 0.887 | 3.0 |
| 2.480 | 3.900 | ±0.5 | 2.754 | 0.867 | 3.0 |
| 73 | CALIFORNIA OF | Bluetooth Mode | (8-DPSK) | | 33 |
| Frequency Conducted Power (dBm) | | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402 | 2.700 | ±0.5 | 2.089 | 0.648 | 3.0 |
| 2.441 | 2.890 | ±0.5 | 2.183 | 0.682 | 3.0 |
| 2.480 | 2.710 | ±0.5 | 2.094 | 0.660 | 3.0 |

So standalone SAR measurements are not required.