

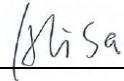
## RF Exposure Evaluation Report

**Report Reference No.**.....: MTEB23030352-H

**FCC ID**.....: 2BANX-MGY-142

Compiled by

( position+printed name+signature) ..: File administrators Alisa Luo



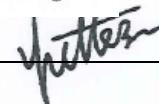
Supervised by

( position+printed name+signature) ..: Test Engineer Sunny Deng



Approved by

( position+printed name+signature) ..: Manager Yvette Zhou



Date of issue.....: **March24, 2023**

**Representative Laboratory Name** ..: **Shenzhen Most Technology Service Co., Ltd.**

Address .....: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

**Applicant's name** .....: **Shenzhen Meiguangyuan Technology Co**

Address .....: 825-826, Enterprise Life Intelligent Park, Yousong Community, Longhua District, Shenzhen

**Test specification/ Standard** .....: **47 CFR Part 1.1307**

**47 CFR Part 2.1093**

TRF Originator .....: Shenzhen Most Technology Service Co., Ltd.

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**Test item description** .....: Astronaut star projection light

Trade Mark .....: N/A

Model/Type reference.....: MGY-142

Listed Models .....: MGY-141, MGY-413, MGY-001, MGY-002, MGY-414, MGY-415, MGY-416

Modulation Type .....: GFSK, π/4DQPSK, 8DPSK

Operation Frequency.....: From 2402MHz to 2480MHz

Hardware Version.....: **V1.0**

Software Version .....: **V1.0**

Rating .....: DC 5V(by USB)

Result.....: **PASS**

## TEST REPORT

Equipment under Test : Astronaut star projection light

Model /Type : MGY-142

Listed Models : MGY-141, MGY-413, MGY-001, MGY-002, MGY-414, MGY-415, MGY-416

Remark : Only the model names are different

Applicant : **Shenzhen Meiguangyuan Technology Co**

Address : 825-826, Enterprise Life Intelligent Park, Yousong Community, Longhua District, Shenzhen

Manufacturer : **Shenzhen Meiguangyuan Technology Co**

Address : 825-826, Enterprise Life Intelligent Park, Yousong Community, Longhua District, Shenzhen

<b>Test Result:</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023.03.24	Initial Issue	Alisa Luo

## **2. SAR Evaluation**

### **2.1 RF Exposure Compliance Requirement**

#### **2.1.1 Standard Requirement**

According to KDB447498D01 General RF Exposure Guidance v06

##### **4.3.1. 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.

#### **2.1.2 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$  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

### 2.1.3 EUT RF Exposure

#### Measurement Data

##### BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-1.57	-1.57±1	-0.57
Middle(2440MHz)	-1.22	-1.22±1	-0.22
Highest(2480MHz)	-1.06	-1.06±1	-0.06

##### π /4DQPSK

Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-1.76	-1.76±1	-0.76
Middle(2440MHz)	-1.59	-1.59±1	-0.59
Highest(2480MHz)	-1.41	-1.41±1	-0.41

##### 8DPSK

Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-1.76	-1.76±1	-0.76
Middle(2440MHz)	-0.56	-0.56±1	0.44
Highest(2480MHz)	-0.78	-0.78±1	0.22

##### Worst case: 8DPSK

Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Middle(2440MHz)	-0.56	0.44	1.11	0.34	3.0	Yes

.....THE END OF REPORT.....