

#### Shenzhen Most Technology Service Co., Ltd.

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

# RF Exposure Evaluation Report

Report Reference No...... MTEB23070313-H FCC ID.....: 2BCEH-CMK323

Compiled by

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Supervised by

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

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

Nanshan, Shenzhen, Guangdong, China.

Zhangzhou Easepal Electronics Co.,Ltd. Applicant's name.....

2nd Floor, No. 6 building, Easepal Factory. No. 228 Jiaosong Road, Address .....

Jiaomei Town, Zhangzhou. Taiwanese Investment Zone. Zhangzhou

Sunny Deng

City, Fujian Province, 363107, P.R.China

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 ....: MASSAGE DEVICE

Trade Mark .....: CASADA

Model/Type reference...... CMK-323

Modulation Type .....: **GFSK** 

GFSK, π/4DQPSK, 8DPSK

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

Hardware Version..... BT4.2 BLE

Software Version ..... V1.0

Rating ...... DC 24V (by Adapter)

Result..... PASS

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## TEST REPORT

Equipment under Test : MASSAGE DEVICE

Model /Type : CMK-323

Listed Models Quattromed V Braintronics, Y60760

Remark Only the model name is different, and the input voltage, product

structure, emission module, PCB board, PCB layout, circuit

principle and appearance are consistent.

Applicant : Zhangzhou Easepal Electronics Co.,Ltd.

Address : 2nd Floor,No. 6 building,Easepal Factory. No.228 Jiaosong Road,

Jiaomei Town, Zhangzhou. Taiwanese Investment

Zone.Zhangzhou City,Fujian Province, 363107, P.R.China

Manufacturer : Zhangzhou Easepal Electronics Co.,Ltd.

Address : 2nd Floor,No. 6 building,Easepal Factory. No.228 Jiaosong Road,

Jiaomei Town, Zhangzhou. Taiwanese Investment

Zone.Zhangzhou City,Fujian Province, 363107, P.R.China

Test Result: PASS
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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.

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# 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023.07.28	Initial Issue	Alisa Luo

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# 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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  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  $\leq$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion

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# 2.1.3 EUT RF Exposure

## Measurement Data

## BT classic

GFSK						
Test channel	Peak Output Power  Tune up tolerance		Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)			
Lowest(2402MHz)	2.945	2.945±1	3.945			
Middle(2441MHz)	2.893	2.893±1	3.893			
Highest(2480MHz)	2.502	2.502±1	3.502			

π /4DQPSK						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)			
Lowest(2402MHz)	3.119	3.119±1	4.119			
Middle(2441MHz)	2.369	2.369±1	3.369			
Highest(2480MHz)	1.884	1.884±1	2.884			

8DPSK						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power			
1000 011111101	(dBm)	(dBm)	(dBm)			
Lowest(2402MHz)	3.392	3.392±1	4.392			
Middle(2441MHz)	2.446	2.446±1	3.446			
Highest(2480MHz)	2.818	2.818±1	3.818			

Worst case: 8DPSK						
Channel Maximum Peak Conducted Output Power (dBm)		10001		Calculated value	Exclusion threshold	SAR Test Exclusion
	(dBm)	(mW)				
Highest(2402MHz)	3.392	4.392	2.75	0.85	3.0	Yes

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BLE

GFSK						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)			
Lowest(2402MHz)	3.112	3.112±1	4.112			
Middle(2440MHz)	2.970	2.970±1	3.97			
Highest(2480MHz)	2.511	2.511±1	3.511			

Worst case: GFSK						
Channel Maximum Peak Conducted Output Power (dBm)		Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
	(dBm)	(mW)				
Highest(2402MHz)	3.112	4.112	1.48	0.46	3.0	Yes

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