

TEST REPORT

FCC Rules Part 15.231e

Report Reference No.....: MTEB24060242-H

FCC ID.....: 2AVJ8-OCB010

Compiled by

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



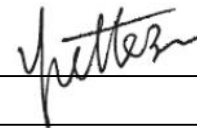
Supervised by

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



Approved by

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



Date of issue.....: June 19,2024

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

Address.....: East A, 1 Floor of New Aolin Factory Building, Langshan Erlu North District, Hi-Tech Industry Park, Nanshan, Shenzhen, Guangdong, People's Republic of China

Applicant's name.....: DewertOkin Technology Group Co., Ltd.

Address.....: No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District, Jiaxing City, Zhejiang Province, China.

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

47 CFR Part 2.1093

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

Shenzhen Most Technology Service Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Most Technology Service Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Most Technology Service Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description.....: Control Box

Trade Mark.....: N/A

Model/Type reference.....: OCB010

Listed Models: N/A

Modulation Type.....: GFSK

Operation Frequency.....: 2403-2480MHz

Hardware version : R5.109.01.1337BB

Software version : V1.0

Rating : DC 29V by Adapter

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

TEST REPORT

Equipment under Test : Control Box

Model /Type : OCB010

Listed Models : N/A

Remark : N/A

Applicant : DewertOkin Technology Group Co., Ltd.

Address : No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District,
Jiaxing City, Zhejiang Province, China.

Manufacturer : DewertOkin Technology Group Co., Ltd.

Address : No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District,
Jiaxing City, Zhejiang Province, China.

Test Result:	PASS
---------------------	-------------

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	2024.06.19	Initial Issue	Alisa Luo

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 ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot$$

$$\left[\sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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

$$\text{EIRP} = \text{PT} * \text{GT} = (\text{E} \times \text{D})^2 / 30$$

where:

PT = transmitter output power in watts,

GT = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, $10^{(\text{dB}\mu\text{V}/\text{m})/20} / 10^6$,

D = measurement distance in meters (m)---3m,

So $\text{PT} = (\text{E} \times \text{D})^2 / 30 / \text{GT}$

The worst case (refer to report MTEB24060242-R) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
2442	83.23	Peak
2442	62.41	Average

Antenna polarization: Vertical		
Frequency (MHz)	Level (dBuV/m)	Polarization
2442	82.03	Peak
2442	62.52	Average

For 2442MHz wireless:

Field strength=83.23dBuV/m

Ant gain:1.00dBi;so Ant numeric gain=1.26

$$\text{EIRP} = \text{PT} * \text{GT} = (\text{E} \times \text{D})^2 / 30 = (10^{(\text{dB}\mu\text{V}/\text{m})/20} / 10^6 * 3)^2 / 30 = 0.000064\text{W}$$

$$\text{So PT} = \text{EIRP} / \text{GT} = 0.000064\text{W} / 1.26 * 1000 = 0.051\text{mW}$$

$$\text{So } (0.051\text{mW}/5\text{mm}) * \sqrt{2.442\text{GHz}} = 0.015912$$

exclusion=0.015912<3.0 for 1-g SAR

So the SAR report is not required.