



Fanguang Inspection & Testing Co., Ltd.
Phone: +86-510-68790033
Web: www.fgtest.cn



FCC RF Exposure Evaluation Report

Report No.: S20210309987005

Issue Date: 04-09-2021

Applicant: Realfit (Shenzhen) Intelligent Technology Co., Ltd.

Address: Room 201, building a, No.1 Qianwan 1st Road,
Shenzhen Hong Kong cooperation zone, Qianhai,
Shenzhen, Guangdong, China

FCC ID: 2AYPPDA2002L

Application Type: Certification

Product: DIZO GoPods D

Model No.: DA2002

Trade Mark: DIZO

FCC Classification: FCC Part 15 Spread Spectrum Transmitter (DSS)

Reviewed By Amos Xia
(Amos Xia)
Senior Test Engineer

Approved By Kerry Zhou
(Kerry Zhou)
Engineer Manager

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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Headquarters Add.: Area B of the 3rd floor, XEDA Sci-Tech Park, Xiqing Economic Development Area, Tianjin, China

Tel: +86-020-66289500-8260

Email: fygd@grgtest.com

http://www.fgtest.cn

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Reports Inquiry : https://grgtest.com

Revision History

Report No.	Version	Description	Issue Date
S20210309987005	Rev. 01	/	04-09-2021

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	DIZO GoPods D
Model Name:	DA2002
Power Range:	DC5V power supplied by charging case DC 3.7V power supplied by the earphone battery or charging case battery
Earphone Battery Specification:	ZWD541112 3.7V, 40mAh, 0.15Wh
Charging Case Battery Specification:	ZWD802028 3.7V, 400mAh, 1.48Wh
Bluetooth Version:	3.0
Antenna Type:	Intenna antenna
Antenna Gain:	-3.12dBi

2. RF Exposure Evaluation

2.1. Limits

According to KDB447498 D01 General RF Exposure Guidance v06 Section 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 Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions;

for example, handheld PTT two-way radios, handsets, laptops & tablets etc. “

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

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to f) in section 4.1 is applied to determine SAR test exclusion.

2.2. Calculation Method

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \cdot \sqrt{f(\text{GHz})} \leq 3.0 \right]$$

Conducted Power + tune up tolerance = 8.02dBm = 6.34mW

Distance = 5 mm

f = 2.48

$$\left[\frac{6.34}{5} \right] \cdot \text{SQRT}(2.48) = 1.996$$

$$1.996 \leq 3.0$$

Therefore, excluded from SAR testing.

CONCLUSION:

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.

_____ The End _____