

EMF TEST REPORT

Test Report No. : OT-24O-RWD-035

Reception No. : 2407002258

Applicant : omnic&s.Inc.

Address : #302, 288 Digital-ro, Guro-gu, Daerung Post Tower 1cha, Seoul, 08390, South Korea

Manufacturer : omnic&s.Inc.

Address : #302, 288 Digital-ro, Guro-gu, Daerung Post Tower 1cha, Seoul, 08390, South Korea

Type of Equipment : EEG measurement & brain training wireless headset

FCC ID. : 2APFA-OCW-H30

Model Name : OCW-H30

Serial number : N/A

Total page of Report : 6 pages (including this page)

Date of Incoming : October 15, 2024

Date of issue : October 23, 2024

SUMMARY

The equipment complies with the regulation; **FCC CFR 47 PART 2.1093**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.



Tested by
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CONTENTS

PAGE

1. VERIFICATION OF COMPLIANCE	4
2. GENERAL INFORMATION	5
2.1 PRODUCT DESCRIPTION.....	5
2.2 ALTERNATIVE TYPE(S)/MODEL(S); ALSO COVERED BY THIS TEST REPORT.....	5
3. EUT MODIFICATIONS.....	5
4. RF EXPOSURE EVALUATION	6
4.1 RF EXPOSURE CALCULATION	6
4.2 EUT DESCRIPTION.....	6
4.3 TEST RESULT	6
4.3.1 Test data for Bluetooth LE	6

Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-24O-RWD-035	October 23, 2024	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : omnic&s.Inc.

Address : #302, 288 Digital-ro, Guro-gu, Daerung Post Tower 1cha, Seoul, 08390, South Korea

Contact Person : BYUNGCHAN, KIM / Dept Manager

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FCC ID : 2APFA-OCW-H30

Model Name : OCW-H30

Brand Name : omniFIT

Serial Number : N/A

Date : October 23, 2024

EQUIPMENT CLASS	DSS – PART 15 SPREAD SPECTRUM TRANSMITTER
E.U.T. DESCRIPTION	EEG measurement & brain training wireless headset
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	KDB 447498 D01 General RF Exposure Guidance v06
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
Modifications on the Equipment to Achieve Compliance	None

- . The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. GENERAL INFORMATION

2.1 Product Description

The omnic&s.Inc., Model OCW-H30 (referred to as the EUT in this report) is a EEG measurement & brain training wireless headset. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	EEG measurement & brain training wireless headset
OPERATING FREQUENCY	2 402 MHz ~ 2 480 MHz
MODULATION TYPE	GFSK
RF OUTPUT POWER	-1.09 dBm
ANTENNA TYPE	Ceramic Chip Antenna
ANTENNA GAIN	1 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32.768 kHz, 38.4 MHz
Electrical Rating	DC 3.70 V

2.2 Alternative type(s)/model(s); also covered by this test report.

-. None

3. EUT MODIFICATIONS

-. None

4. RF EXPOSURE EVALUATION

4.1 RF Exposure Calculation

According to the FCC rule §4.3. General SAR test exclusion guidance, the limit for 1-g and 10-g SAR test exclusion thresholds are ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR by the device operating 100 MHz to 6 GHz and test separation distances ≤ 50 mm

4.2 EUT Description

Kind of EUT	EEG measurement & brain training wireless headset
Device Category	☒ Portable (< 20 cm separation) ☐ Mobile (> 20 cm separation) ☐ Others
Exposure Evaluation Applied	☐ MPE ☐ SAR ☒ N/A

4.3 Test Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3.0$$

$$= [(1.23/5)] \times \sqrt{2.480} = 0.388$$

4.3.1 Test data for Bluetooth LE

Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Antenna Gain (dBm)	Max EIRP power (dBm)	Max EIRP power (mW)	Separation distance (mm)	RF exposure
2 480.00	-1.09 ± 1.0	-0.09	1.00	0.91	1.23	5	0.388