

EMF TEST REPORT

Test Report No. : OT-25D-RWD-013
Reception No. : 2511003763
Applicant : OceansBio Co., Ltd
Address : 46, Changwon-daero 18beon-gil, Uichang-gu, Chang-won-si, Gyeongsangnam-do, South Korea
Manufacturer : OceansBio Co., Ltd
Address : 46, Changwon-daero 18beon-gil, Uichang-gu, Chang-won-si, Gyeongsangnam-do, South Korea
Type of Equipment : BeCozU
FCC ID. : 2BTFO-OC-NF01
Model Name : OC-NF01
Multiple Model Name : N/A
Serial number : N/A
Total page of Report : 8 pages (including this page)
Date of Incoming : November 14, 2025
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SUMMARY

The equipment complies with the regulation; **CFR §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 test report is not associated with the accreditation granted by the Korean Laboratory Accreditation Scheme (KOLAS).





Tested by
 Ha-Ram, Lee / Deputy Chief Engineer
 ONETECH Corp.

Reviewed by
 Tae-Ho, Kim / Chief Engineer
 ONETECH Corp.

Approved by
 Jae-Ho, Lee / Director
 ONETECH Corp.

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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-25D-RWD-013	December 11, 2025	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : OceansBio Co., Ltd

Address : 46, Changwon-daero 18beon-gil, Uichang-gu, Chang-won-si, Gyeongsangnam-do, South Korea

Contact Person : Seungbong Lee / Principal Manager

Telephone No. : +82-2-717-2640

FCC ID : 2BTFO-OC-NF01

Model Name : OC-NF01

Brand Name : Oceansbio

Serial Number : N/A

Date : December 11, 2025

E.U.T. DESCRIPTION	BeCozU
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 OceansBio Co., Ltd, Model OC-NF01 (referred to as the EUT in this report) is a BeCozU. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE		BeCozU		
Temperature Range		0 °C ~ 60 °C		
OPERATING FREQUENCY		Bluetooth	2 402 MHz ~ 2 480 MHz	
		Bluetooth LE	2 402 MHz ~ 2 480 MHz	
MODULATION TYPE		Bluetooth	GFSK for 1Mbps, π /4-DQPSK for 2Mbps, 8-DPSK for 3Mbps	
		Bluetooth LE	GFSK for 1 Mbps / 2 Mbps	
RF OUTPUT POWER	Left Earbud	Bluetooth	1 Mbps	2.96 dBm
			2 Mbps	2.84 dBm
			3 Mbps	3.47 dBm
		Bluetooth LE	1 Mbps	3.01 dBm
			2 Mbps	3.05 dBm
			Right Earbud	Bluetooth
	2 Mbps	-3.43 dBm		
	3 Mbps	-2.55 dBm		
	Bluetooth LE	1 Mbps		-3.20 dBm
		2 Mbps	-3.24 dBm	
NUMBER OF CHANNEL		Bluetooth	79 Channels	
		Bluetooth LE	40 Channels	
ANTENNA TYPE	Left Earbud	Ceramic SMT Antenna		
	Right Earbud			
ANTENNA GAIN	Left Earbud	2.70 dBi		
	Right Earbud	2.70 dBi		
ANTENNA TRANSMIT TYPE	Left Earbud	Bluetooth / Bluetooth LE: 1T1R		
	Right Earbud			
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)		32 MHz		

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

-. None

3. EUT MODIFICATIONS

-. None

4. MAXIMUM PERMISSIBLE EXPOSURE

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	BeCozU
Device Category	☒ Portable (< 20 cm separation) ☐ Mobile (> 20 cm separation) ☐ Others
Exposure Evaluation Applied	☒ MPE ☐ SAR ☐ N/A

4.3 Test Result

4.3.1 Test data for Bluetooth [Left Earbud]

Operating Freq. Band (MHz)	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
2 400 ~ 2 483.5 BDR [1 Mbps]	2 480	2.96 ± 0.5	3.46	2.22	5	0.699
2 400 ~ 2 483.5 EDR [2 Mbps]	2 480	2.84 ± 0.5	3.34	2.16		0.688
2 400 ~ 2 483.5 EDR [3 Mbps]	2 480	3.47 ± 0.5	3.97	2.49		0.786

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

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= [(2.49/5)] \times \sqrt{2.480} = 0.786$$

4.3.2 Test data for Bluetooth LE [Left Earbud]

Operating Freq. Band (MHz)	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
2 400 ~ 2 483.5 LE [1 Mbps]	2 480	3.01 ± 0.5	3.51	2.24	5	0.701
2 400 ~ 2 483.5 LE [2 Mbps]	2 480	3.05 ± 0.5	3.55	2.26		0.708

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

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= [(2.26/5)] \times \sqrt{2.480} = 0.708$$

4.3.3 Test data for Bluetooth [Right Earbud]

Operating Freq. Band (MHz)	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
2 400 ~ 2 483.5 BDR [1 Mbps]	2 480	-3.88 ± 0.5	-3.38	0.46	5	0.145
2 400 ~ 2 483.5 EDR [2 Mbps]	2 480	-3.43 ± 0.5	-2.93	0.51		0.160
2 400 ~ 2 483.5 EDR [3 Mbps]	2 480	-2.55 ± 0.5	-2.05	0.62		0.196

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

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= [(0.62/5)] \times \sqrt{2.480} = 0.196$$

4.3.4 Test data for Bluetooth LE [Right Earbud]

Operating Freq. Band (MHz)	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
2 400 ~ 2 483.5 LE [1 Mbps]	2 480	-3.20 ± 0.5	-2.70	0.54	5	0.168
2 400 ~ 2 483.5 LE [2 Mbps]	2 480	-3.24 ± 0.5	-2.74	0.53		0.166

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

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= [(0.54/5)] \times \sqrt{2.480} = 0.168$$