



TEST REPORT

Applicant Name: Shenzhen Navynav Technology Co., Ltd.
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Nanshan District, Shenzhen, Guangdong Province, China
Report Number: 2504A05479E-RF-00B
FCC ID: 2BM2K-M7

Test Standard (s)

47 CFR §2.1091

Sample Description

Product Name: Wireless data transceiver
Model No.: M7
Trade Mark: N/A
Date Received: 2025-12-08
Report Date: 2026-03-27

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

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Approved By:

Bob.Liao

Bob.Liao
EMC Engineer

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504A05479E-RF-00B	Original Report	2026-03-27

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	Wireless data transceiver
Tested Model	M7
Voltage Range [#]	DC 7.5V
Frequency Range	UHF: 410-470MHz
Rated Output Power [#]	High Power: 5Watts Low Power: 2Watts
Antenna Specification [#]	External Antenna, Gain: 2dBi (It is provided by the manufacturer.)
Sample Serial Number	3E0T-1 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC §2.1091 rules.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

RF EXPOSURE

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Calculated Result:

Frequency (MHz)	Antenna Gain [#]		Tune up conducted power [#]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
	(dBi)	(numeric)	(dBm)	(mW)			
410-470	2	1.585	37	5012	50	0.253	0.273

Note: The tune-up conducted power and antenna gain are declared by the applicant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 50cm from nearby persons.

Result: Compliance

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504A05479E-RF EUT External Photos and Attachment No.2 2504A05479E-RF EUT Internal Photos.

***** END OF REPORT *****