

Antenna Test Report

Report No.: AGC16184240501PA01

PRODUCT DESIGNATION : PCB Antenna
BRAND NAME : MOULTRIE FEEDERS
MODEL NAME : MFA-15074
APPLICANT : EBSCO Industries INC.
DATE OF ISSUE : May 21, 2024
REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 21, 2024	Valid	Initial release

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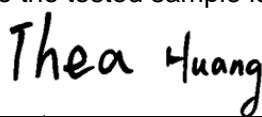
1. PRODUCT INFORMATION

General information	
Applicant	EBSCO Industries INC.
Address	5724 Highway 280 East, Birmingham, AL 35242, United States
Manufacturer	Focus Technology (ShenZhen) Co., Ltd
Address	15 Block, Third industrial Area, Longxi Village Longgang District, Shenzhen, China
Factory	Focus Technology (ShenZhen) Co., Ltd
Address	15 Block, Third industrial Area, Longxi Village Longgang District, Shenzhen, China
Product Designation	PCB Antenna
Brand Name	MOULTRIE FEEDERS
Test Model	MFA-15074
Series Model	N/A
Difference Description	N/A
Date of test	May 20, 2024
Report Template	AGCRT-ER-PA/V1.0
Technical information	
Frequency Range	2400-2500MHz
Test Frequencies	2400MHz, 2410MHz, 2420MHz, 2430MHz, 2440MHz, 2450MHz, 2460MHz, 2470MHz, 2480MHz, 2490MHz, 2500MHz
Antenna Type	PCB antenna
Dimensions	15*9mm
Impedance	50 Ω
Maximum test values	Gain: -1.339dBi; Efficiency: 15.183%; VSWR: 1.083:1

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd.

The test results of this report relate only to the tested sample identified in this report.

Prepared By



Thea Huang

(Project Engineer)

May 21, 2024

Reviewed By



Calvin Liu

(Reviewer)

May 21, 2024

Approved By



Max Zhang

Authorized Officer

May 21, 2024

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2. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Cal. Date	Cal. Due
ANTENNA MEASUREMENT SYSTEM	ETS-Lindgren	AMS-8600	Nov. 20, 2023	Nov. 19, 2024
Network Analyzer	R&S	ZVL-6	Oct. 04, 2023	Oct. 03, 2024
Test software	ETS-Lindgren	EMQuest (Ver V1.12)	N/A	N/A

4. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of VSWR, $U_c = \pm 1.5\text{dB}$
- Uncertainty of Gain, $U_c = \pm 0.8\text{dB}$

5. TEST SUMMARY LIST

NO.	Test item	Remark
1	VSWR	--
2	Gain and efficiency	--
3	Radiation pattern	--

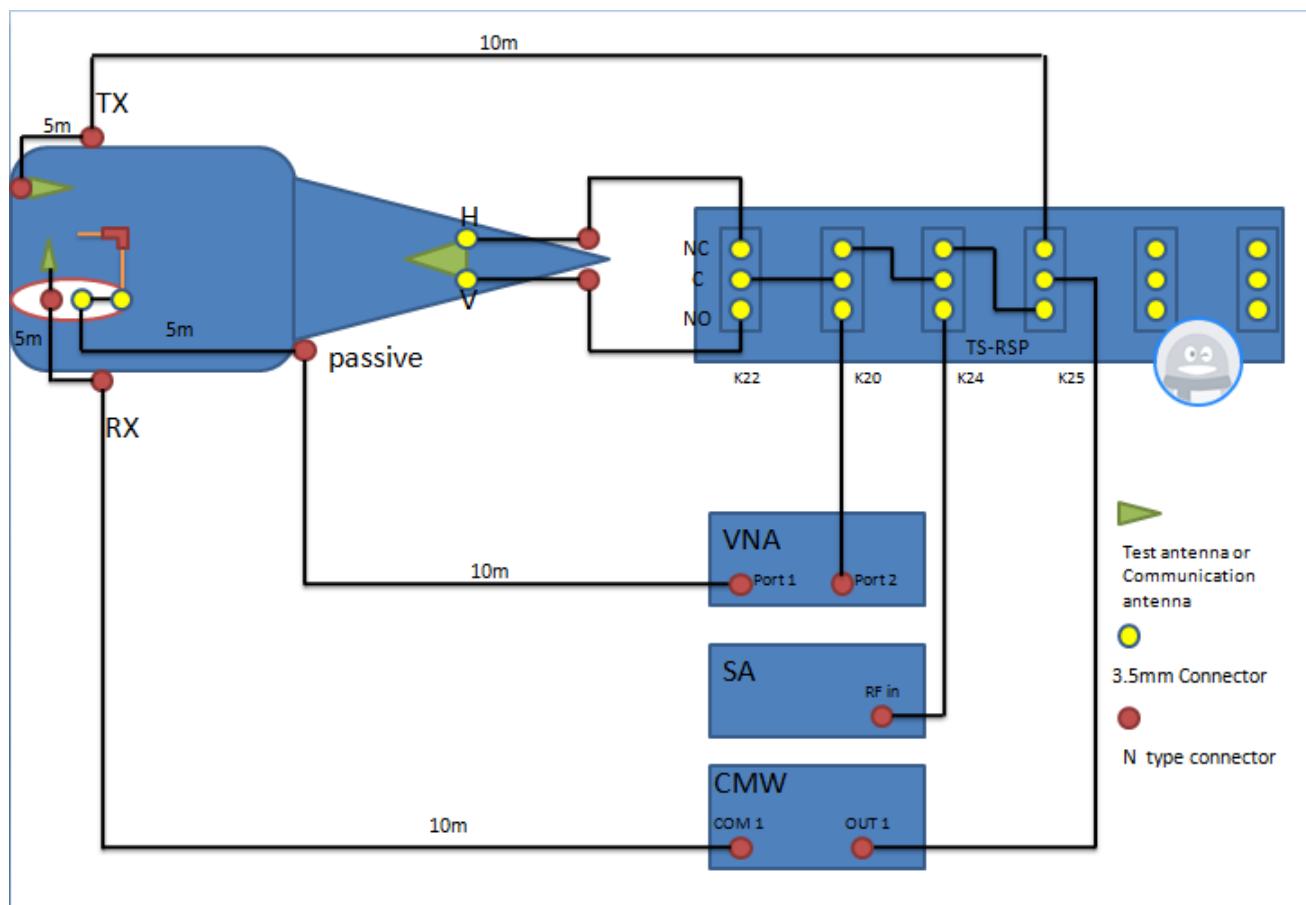
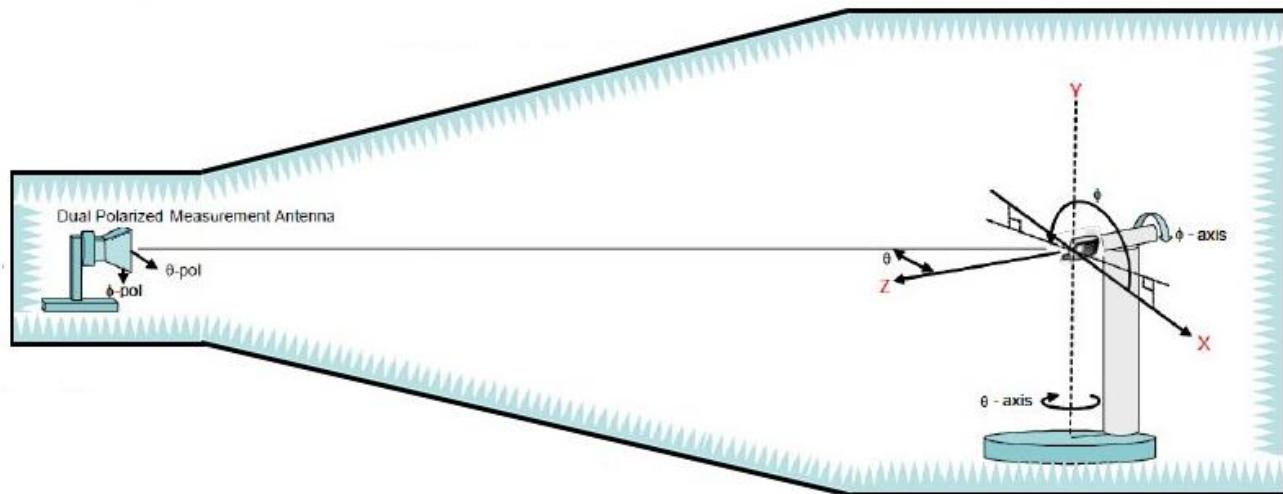
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6. TEST SETUP



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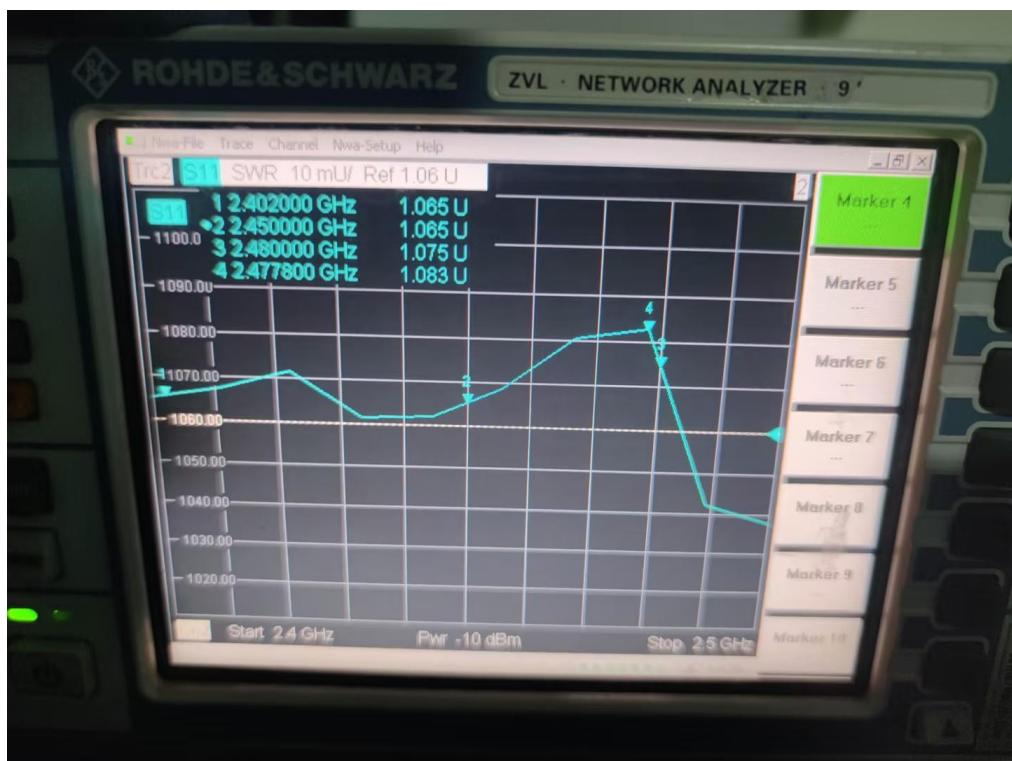
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7. TEST RESULTS

7.1. VSWR

Frequency(MHz)	VSWR
2402	1.065:1
2450	1.065:1
2478	1.083:1
2480	1.075:1



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7.2. GAIN AND EFFICIENCY

Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-8.187	15.183	-1.396
2410	-8.379	14.524	-1.665
2420	-8.521	14.057	-1.892
2430	-8.403	14.444	-1.764
2440	-8.252	14.955	-1.462
2450	-8.356	14.603	-1.339
2460	-8.624	13.728	-1.427
2470	-8.980	12.648	-1.780
2480	-9.102	12.297	-1.973
2490	-9.310	11.721	-2.327
2500	-9.480	11.273	-2.533

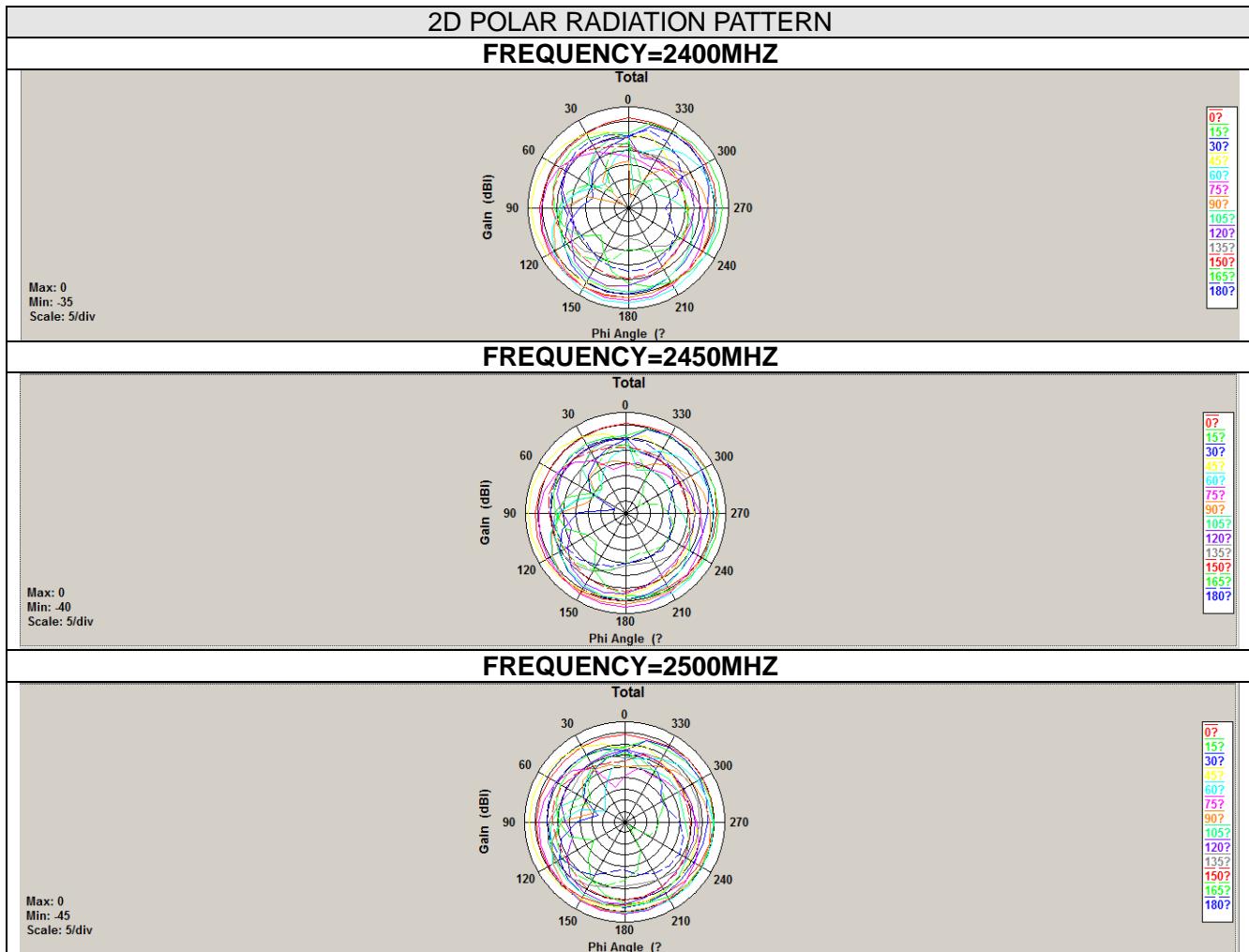
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7.3. RADIATION PATTERN

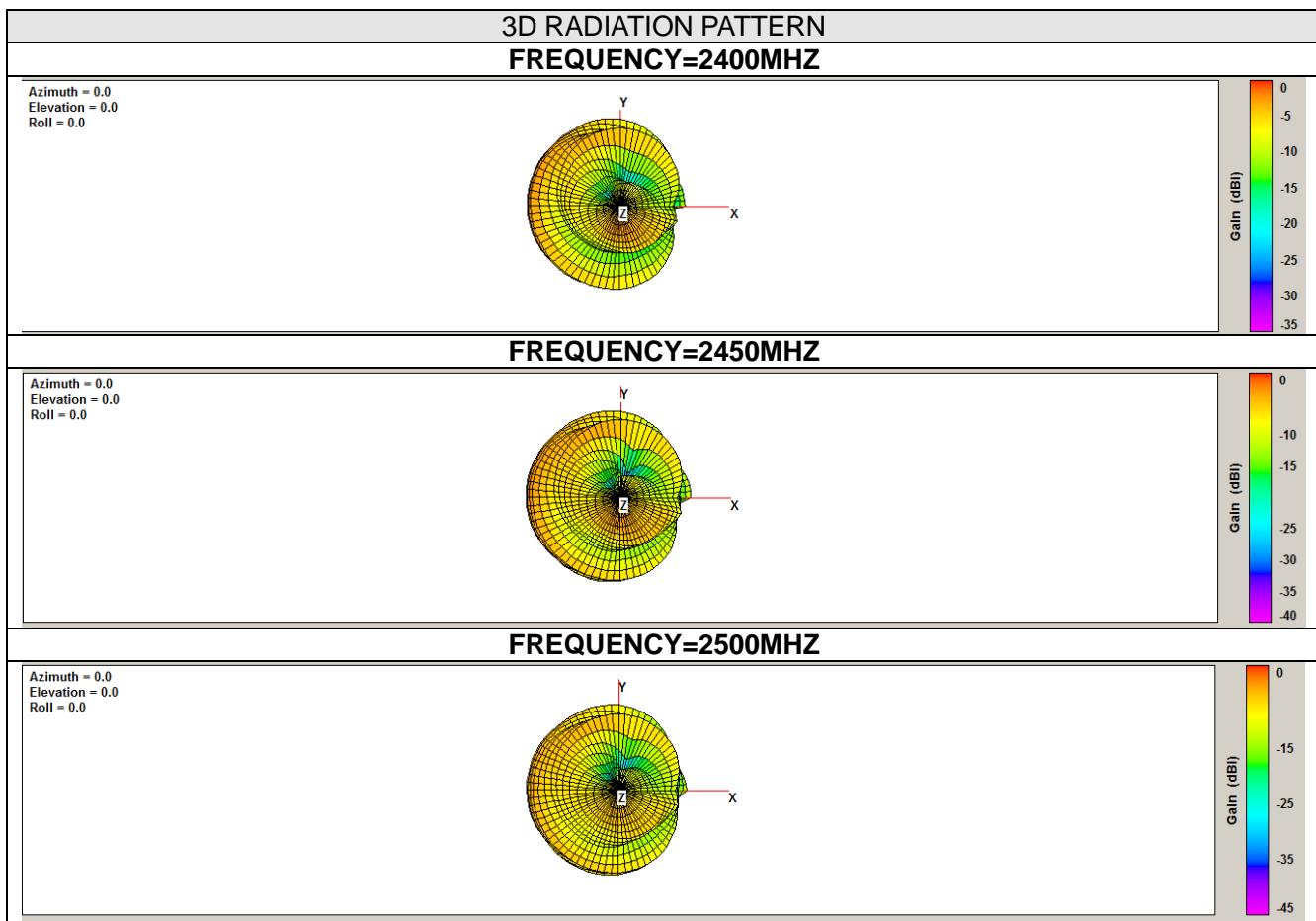


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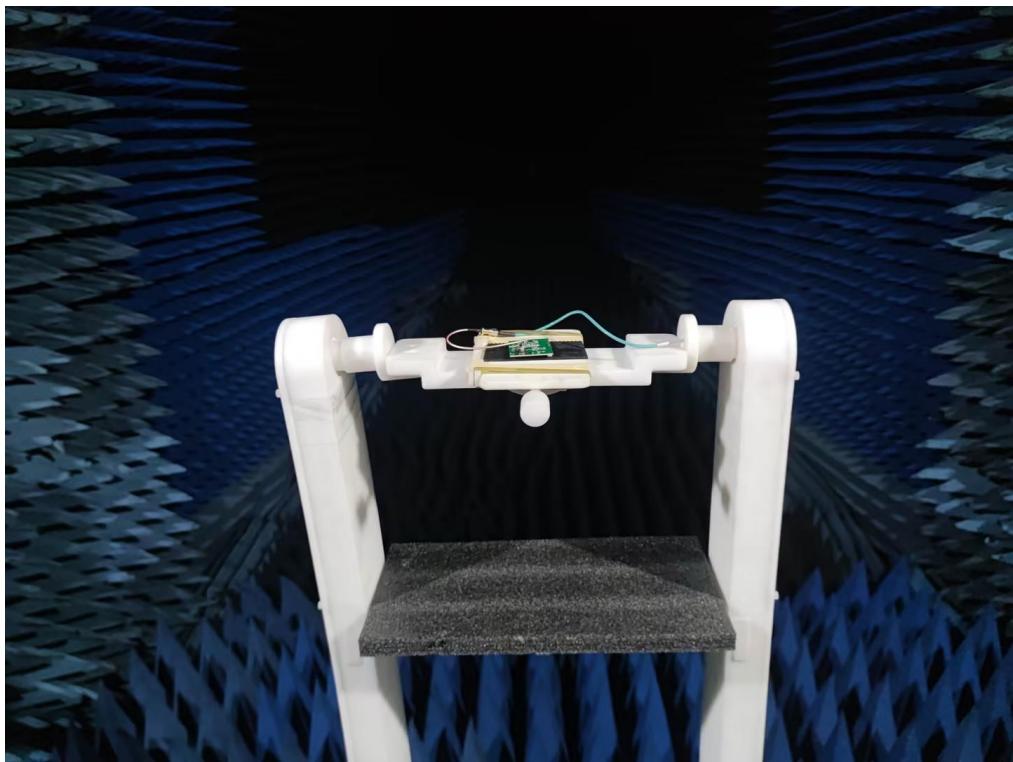


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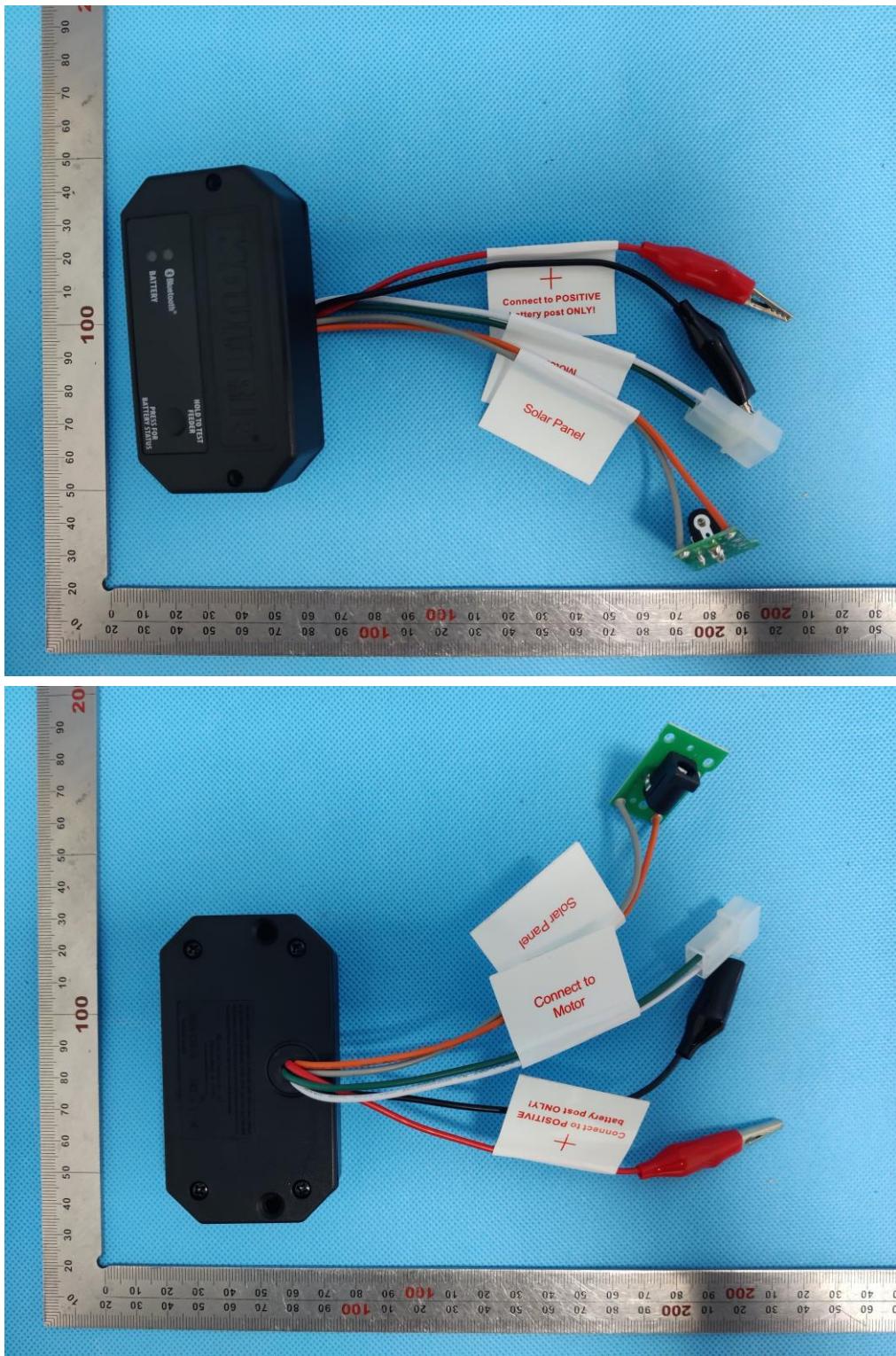
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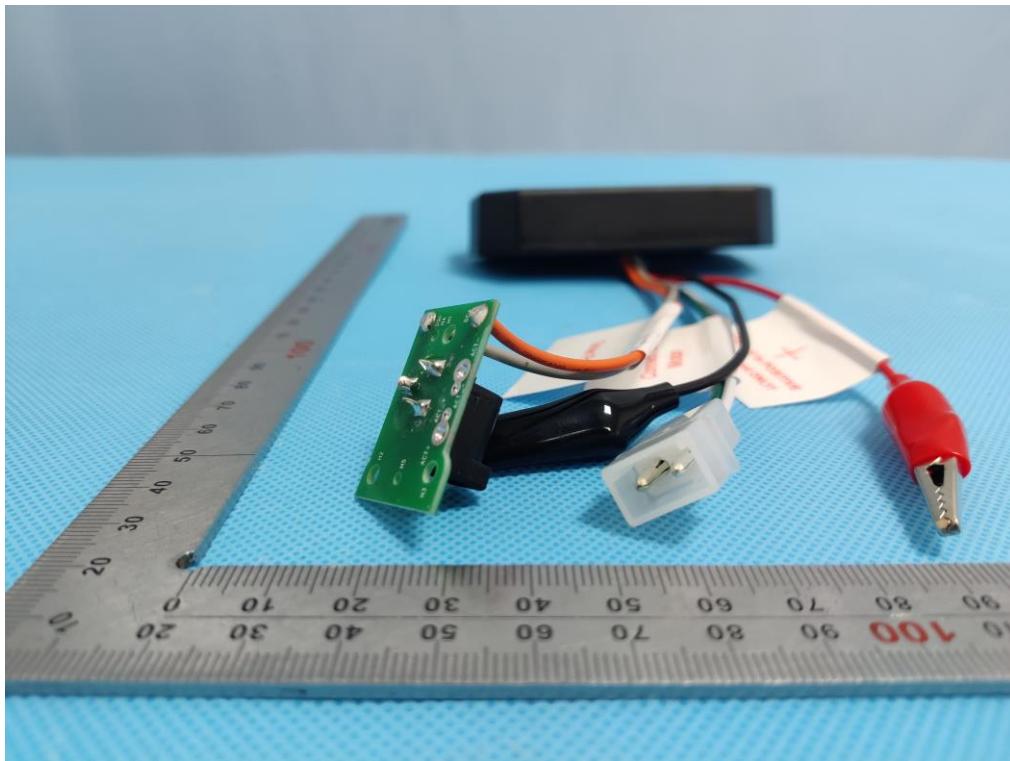
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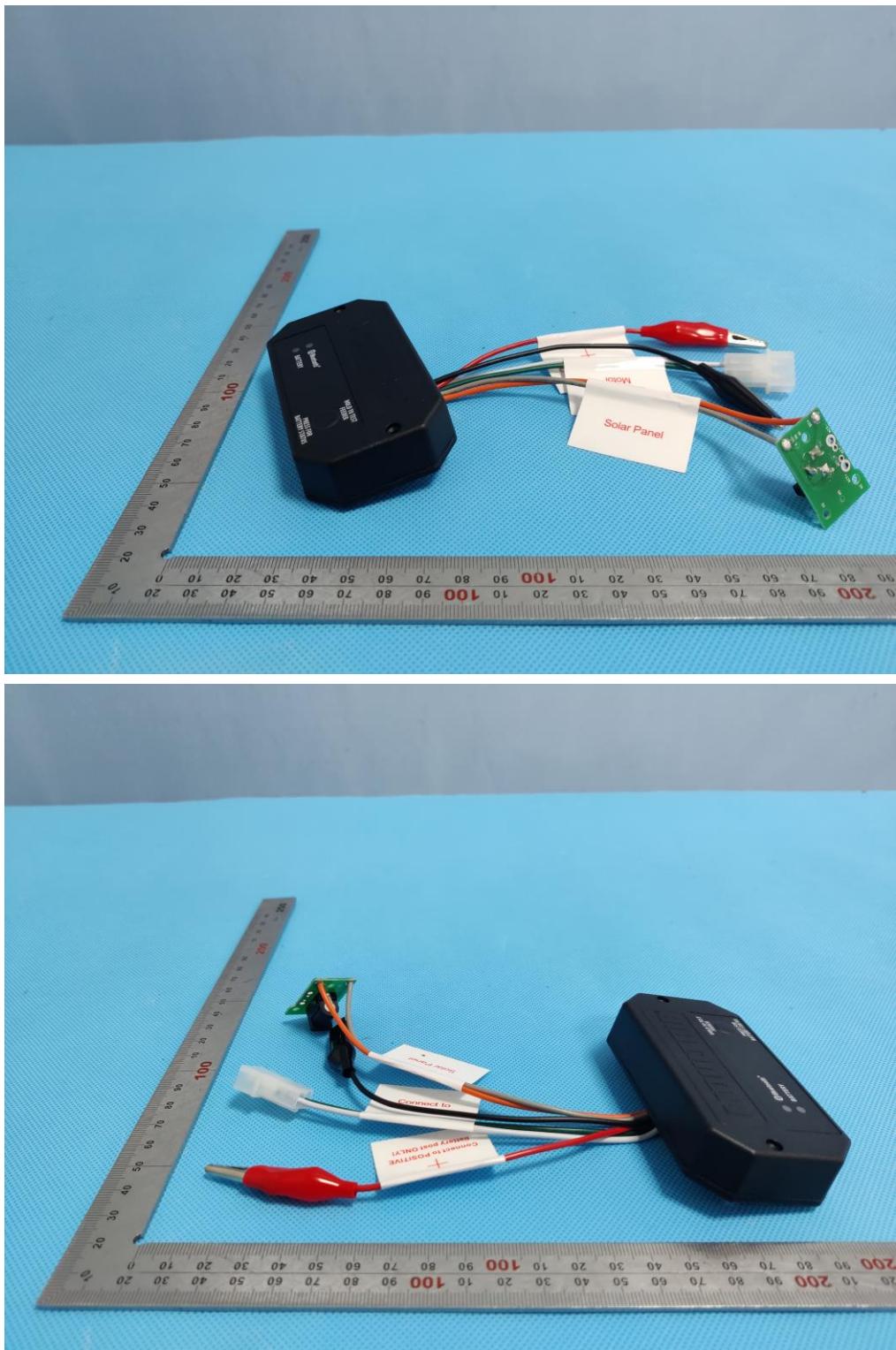


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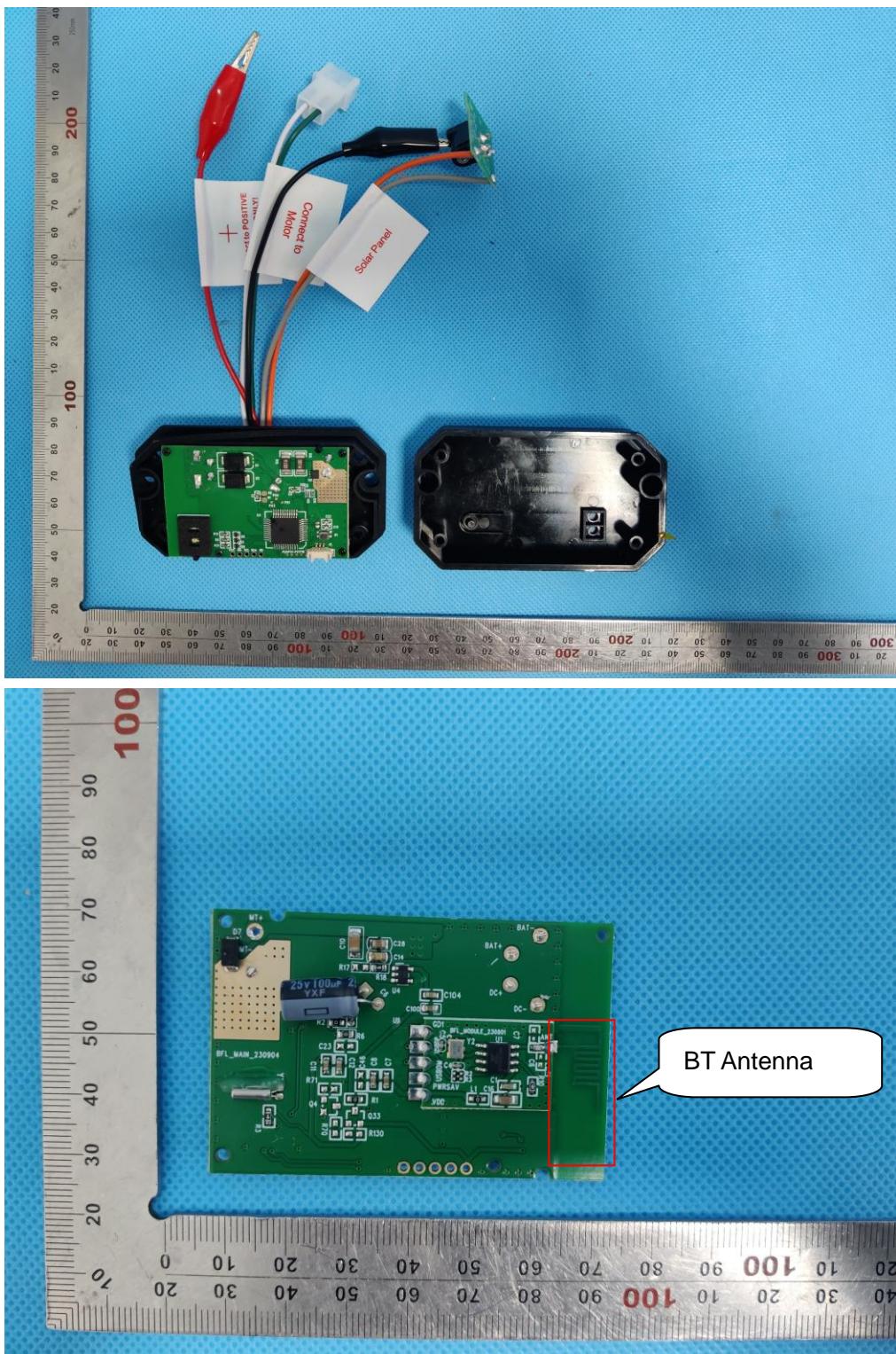


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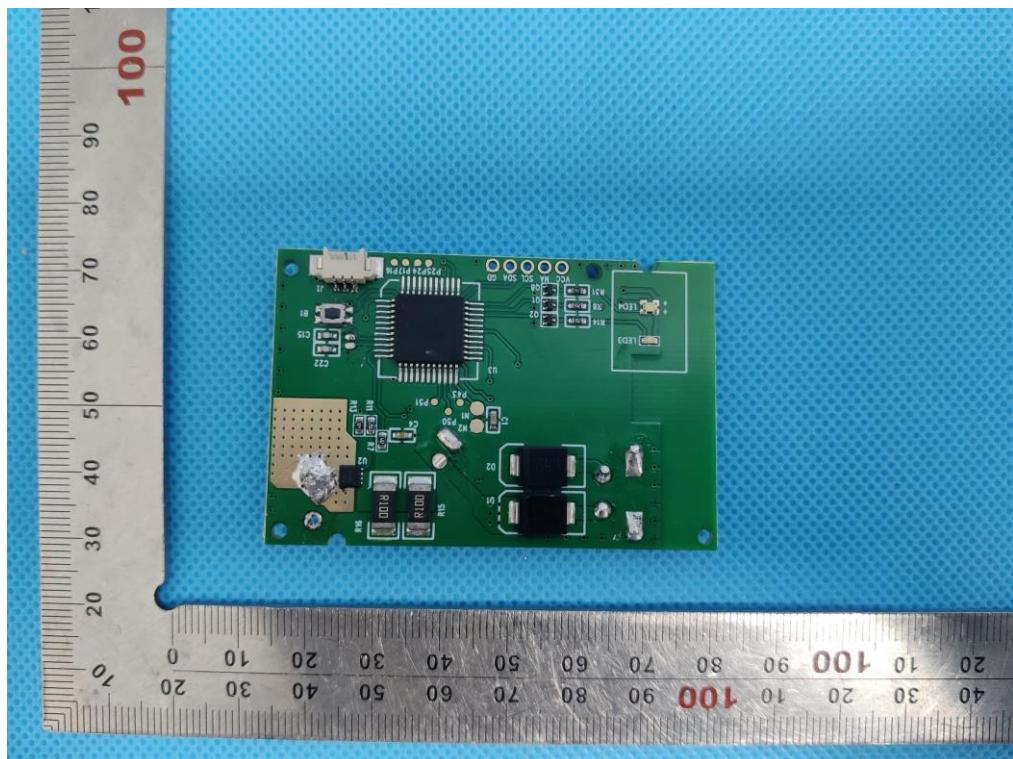


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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract or warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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