

Antenna Passive TEST REPORT

Applicant	:	Guangdong A-OK Technology Grand Development Co.,Ltd.
Address	:	Hexing Road South Side Sanhe Economic Development Zone.Huivang Huizhou. Guangdong PEOPLE'S REPUBLIC OF CHINA
Manufacturer	:	Guangdong A-OK Technology Grand Development Co.,Ltd.
Address		Hexing Road South Side Sanhe Economic Development Zone.Huivang Huizhou. Guangdong PEOPLE'S REPUBLIC OF CHINA
Equipment under Test		Smart Tubular Motor
Model No		N/A
Report No.		DDT-B24092909-1A01
		BB 1 B2 1002000 17 to 1
Issue Date	:	Oct. 18, 2024
Issue Date Issued By	:	

REPORT

CONMENT

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Revision History

Rev.	Revisions		Issue Date	Revised By
	2	Initial issue	Oct. 18, 2024	ar
		DIE	Ok	7

Test Report Declare

Report No: DDT-B24092909-1A01

Applicant	:	Guangdong A-OK Technology Grand Development CoLtd.
Address Equipment under Test Model no Manufacturer Address		Hexing Road South Side Sanhe Economic Development Zone.Huivang Huizhou.Guangdong PEOPLE'S REPUBLIC OF CHINA
		Smart Tubular Motor
		N/A
		Guangdong A-OK Technology Grand Development CoLtd.
		Hexing Road South Side Sanhe Economic Development Zone.Huivang Huizhou.Guangdong PEOPLE'S REPUBLIC OF CHINA

We Declare:

The equipment described above is tested by Tianjin Dongdian Testing Sepice Co., Let and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Tianjin Dongdian Testing Service Co. Let is assumed of full responsibility for the accuracy and completeness of these tests.

Report No:	DDT-B24092909-1A	.01	检验检测专用章 Inspection & Testing Services
Date of Receipt:	Sep. 29, 2024	Date of Test:	Oct. 18, 2024

Prepared By:

| Wak | Wei | Aaron Zhang | Aaron Zhang | Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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1. General TEST Information

1.1 Description of EUT

EUT Description	:	Smart Tubular Motor
Model Number	•••	N/A
Frequency Band	:	2400MHz-2800MHz
Power Supply		N/A ®
Sample No	1	Y24092909-01
Antenna type		РСВ
Note	•	N/A ®

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1.2 Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

1.3 Assistant equipment used for test

	Description of Accessories	Manufacturer	Model number	Description	Remark
0	N/A	N/A	N/A	N/A	N/A

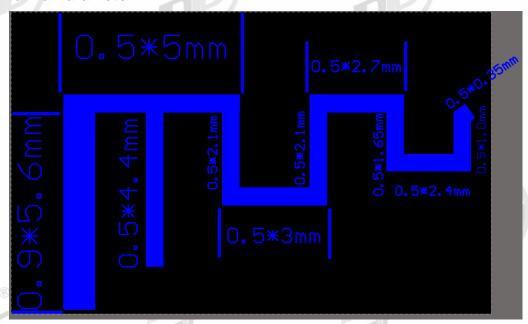
1.4 Block diagram of EUT configuration for test

EUT

1.5 Measurement uncertainty

Test Item	uncertainty _®
Near-field gain measurement	0.44 dB
Near-field pattern measurement	0.44 dB
Note: This uncertainty indicates that the exte 95% and the corresponding inclusion factor I	ended uncertainty confidence interval is about k=2 is obtained.

1.6 Antenna Parameter



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1.7 Test laboratory

Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area,

Tianjin, China., 300385

Tel: +86-22-58038033, http://www.ddttest.com, Email: ddt@dgddt.com

NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402

FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676

ISED (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

2. Electric performance measurement

2.1 General Information

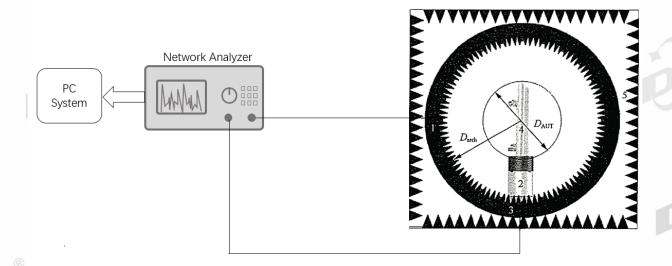
Test Date	2024-10-18	(8)	(8)		
Test Condition	Temperature: 21.8±1°C	Humidity: 34±1%	Pressure: 101.3±0.2 kPa		
Test Place	OTA Room	Test Engineer	Novak Wei		

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2.2 Test Equipment

Equipment	Manufacturer	Mode No	Serial No	Last Cal.	Cal.Interval
ENA network analyzer	Keysight	E5071C	MY46900684	2024-05-06	1 year
Software	FEITU	ANTESTPRO	N/A	N/A	N/A

2.3 Block Diagram of Test Setup



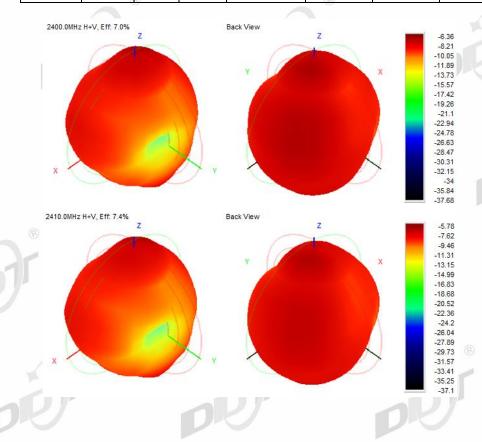
2.4 Test Procedure

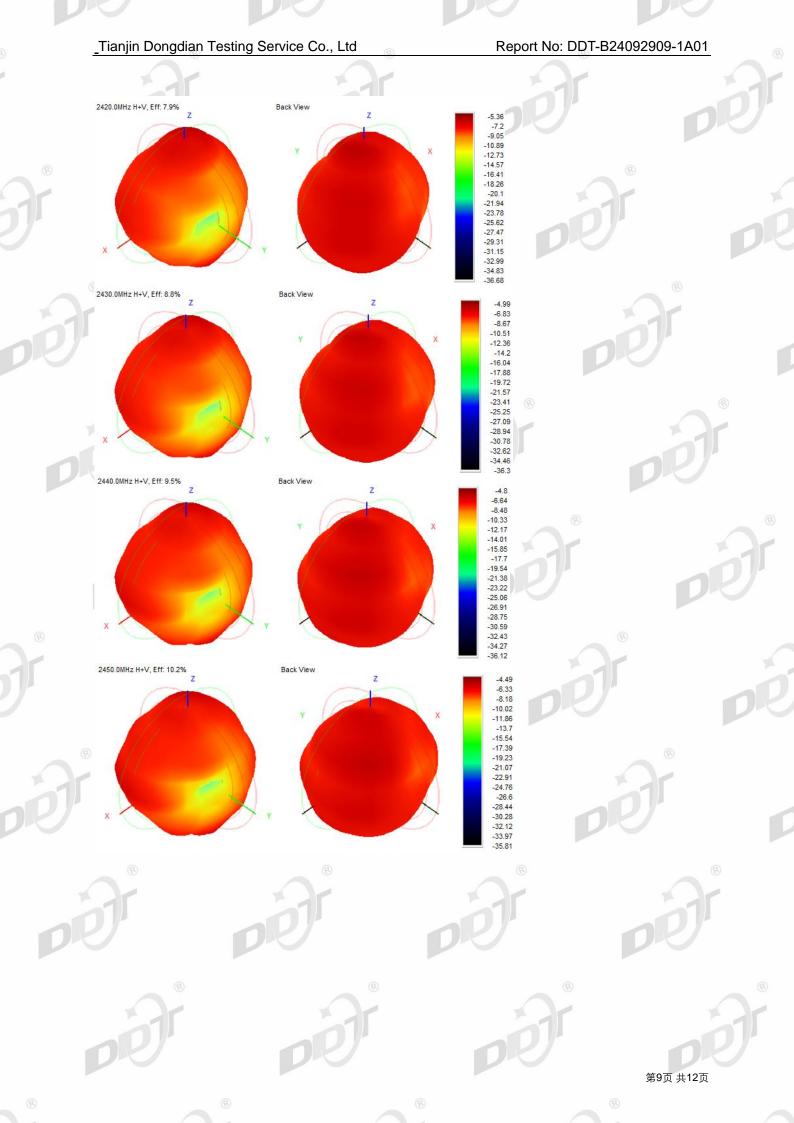
- (1) Set up the antenna to be measured. Set up the antenna and mark the cross reference line at the center of the antenna port surface to be measured.
- (2) Connect the cable connector and adjust the downdip Angle (electrically tuned antenna).
- (3) Open the test software, create the test project, and configure the test port.
- (4) Use test software for automatic testing and save test data of electromagnetic field distribution.
- (5) Change the port, downdip Angle, or test frequency (if necessary), and repeat steps (3) to (4) until all status data to be measured is collected.
- (6) After near and far field exchange, the three-position spherical pattern of the antenna to be tested is obtained, and the Theta and Phi angles of the position where the maximum level of the

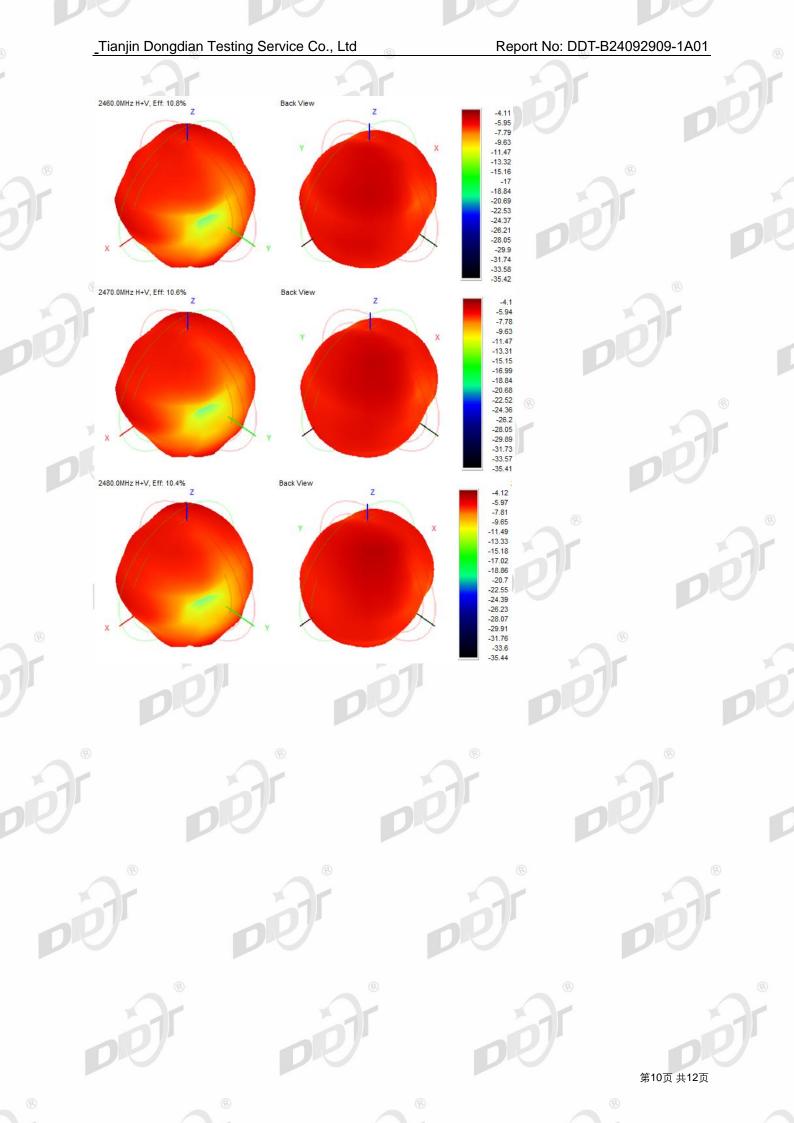
three-position spherical pattern is located are found. The horizontal plane pattern curve of the antenna to be tested is obtained by cutting according to equal Theta Angle, and the vertical plane pattern of the antenna to be tested is cancelled by cutting according to equal Phi Angle. Then the radiation parameters of the horizontal plane and vertical plane pattern of the antenna to be measured are obtained by using the processing method similar to that of the far field.

2.5 Result

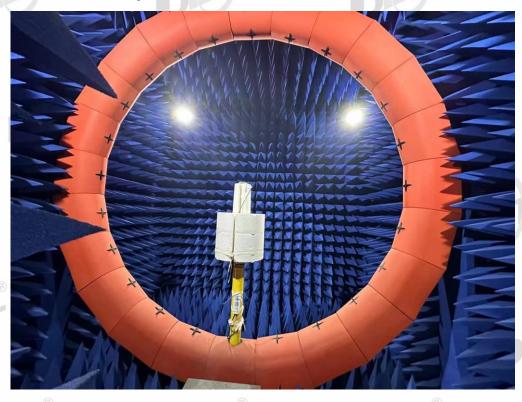
	Fre. (MHz)	Eff. (dBi)	Gain (dBi)	Eff. (%)	Directivity (dB)	Peak Gain Position (Theta)	Peak Gain Position (Phi)	Eff. ThetaPol (%)	Eff. PhiPol (%)	Upper Hem. Eff. (%)	Lower Hem. Eff. (%)
1	2400.0	-11.56	-6.36	6.98	5.20	165.00	120.00	2.19	4.79	3.61	3.37
	2410.0	-11.29	-5.78	7.43	5.51	165.00	120.00	2.29	5.14	3.76	3.68
	2420.0	-11.02	-5.36	7.90	5.66	165.00	120.00	2.43	5.47	3.90	4.00
	2430.0	10.57	-4.99	8.76	5.59	165.00	120.00	2.71	6.05	4.26	4.50
	2440.0	-10.21	-4.80	9.54	5.41	165.00	120.00	3.01	6.52	4.64	4.90
	2450.0	-9.91	-4.49	10.20	5.42	150.00	60.00	3.31	6.89	5.00	5.20
	2460.0	-9.68	-4.11	10.77	5.57	150.00	60.00	3.60	7.18	5.37	5.40
	2470.0	-9.76	-4.10	10.57	5.66	150.00	60.00	3.64	6.93	5.37	5.20
	2480.0	-9.84	-4.12	10.38	5.72	165.00	120.00	3.65	6.73	5.33	5.04







Annex A Test Setup Photo



Annex B EUT Photo

