

ANTENNA PASSIVE TEST REPORT

| | |
|--|------------------------------------|
| Application No. | ZEWM2312001920OA |
| Applicant | Shenzhen Tongyi Technology Co.,Ltd |
| Manufacturer | Shenzhen Tongyi Technology Co.,Ltd |
| Product Name | Smart Robot Premium |
| Model No. | MKZ-PF-PM |
| Standards | ANSI/IEEE Std 149-2008 |
| Date Initial Sample(s) Received | 2023.12.25 |
| Testing Start Date | 2023.12.25 |
| Testing Finish Date | 2023.12.26 |
| Report Issue Date | 2023.12.28 |

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Yuanyu Luo

Prepared by

Max. Huang

Reviewed By

Yvonne Li

Approved by

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Revision Version

| Report No. | Version | Date | Memo |
|--------------------|---------|------------|----------------------------|
| ZEWM2312001920OA01 | 00 | 2023.12.28 | Initial creation of report |



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TABLE OF CONTENTS

| | |
|--|-----------|
| 1 GENERAL INFORMATION | 4 |
| 1.1 Testing Laboratory | 4 |
| 1.2 Details of Applicant | 4 |
| 1.3 Details of Manufacturer | 4 |
| 1.4 General Description of EUT..... | 5 |
| 1.5 Test Procedure | 5 |
| 1.6 Test Specification | 6 |
| 1.7 Laboratory Environment..... | 6 |
| 2 OTA MEASUREMENTS SYSTEM CONFIGURATION | 7 |
| 2.1 Test Configuration | 7 |
| 3 TEST EQUIPMENT LIST | 8 |
| 4 MEASUREMENT UNCERTAINTY | 9 |
| 5 TEST RESULTS | 10 |
| 6 PATTERN PLOTS | 12 |
| 6.1 Return Loss..... | 12 |
| 6.2 VSWR | 13 |
| 6.3 Stimulus | 14 |
| 7 2-D ANTENNA PATTERN(THETA=90°) | 15 |
| 8 3-D ANTENNA PATTERN | 16 |
| 9 THE EUT AND TEST CONFIGURATION | 17 |



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1 General Information

1.1 Testing Laboratory

| | |
|----------|--|
| Test Lab | SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch |
| Address | No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 |
| Contact | Ervin Li |
| Tel. | +86 18823369694 |
| Fax | +86-755-25328600 |
| E-mail | Ervin.Li@sgs.com |

1.2 Details of Applicant

| | |
|---------------------|--|
| Applicant's Name | Shenzhen Tongyi Technology Co.,Ltd |
| Applicant's Address | Block D 505, HuaShengTai Tech Building, No.36 HangKong Road, Baoan District, Shenzhen, CHINA |
| Contact | Sally Peng |
| Tel. | +86 15102008566 |
| Fax | N/A |
| E-mail | sallypeng@td-robot.com |

1.3 Details of Manufacturer

| | |
|------------------------|--|
| Manufacturer's Name | Shenzhen Tongyi Technology Co.,Ltd |
| Manufacturer's Address | Block D 505, HuaShengTai Tech Building, No.36 HangKong Road, Baoan District, Shenzhen, CHINA |
| Contact | Sally Peng |
| Tel. | +86 15102008566 |
| Fax | N/A |
| E-mail | sallypeng@td-robot.com |



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1.4 General Description of EUT

| | |
|----------------------|------------------------------------|
| Device Description: | Monitor Light Bar |
| Device Manufacturer: | Shenzhen Tongyi Technology Co.,Ltd |
| Device Model: | MKZ-PF-PM |
| Hardware Version: | N/A |
| Software Version: | N/A |
| Antenna Dimensions: | 14.37 x 6.25 x 0.5 mm |

1.5 Test Procedure

Testing is performed according to the **ANSI/IEEE Std 149-2008**.



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1.6 Test Specification

| Identity | Document Title |
|------------------------|--|
| ANSI/IEEE Std 149-2008 | IEEE Standard Test Procedures for Antennas |

1.7 Laboratory Environment

| | | |
|-------------------|--------------------------|---------|
| Temperature | Min. =19°C , Max. = 25°C | |
| Relative humidity | Min. =40% , Max. =72% | |
| Shield effect | 0.7-6GHz | > 100dB |
| Ground resistance | <0.5Ω | |



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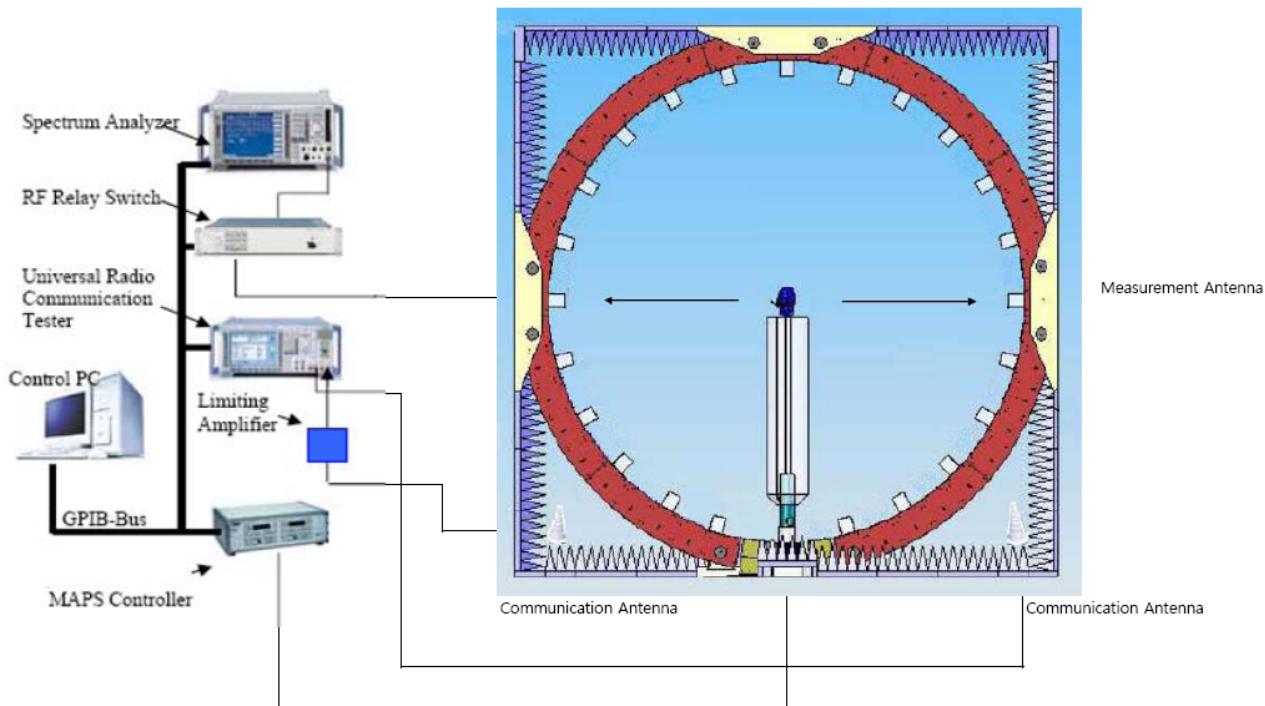
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2 OTA Measurements System Configuration

2.1 Test Configuration

Great-Circle-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 5m



F-1. OTA Measurement System Configuration



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3 Test Equipment List

| Type of Equipment | Model Number | Manufacture | Calibration Date | Valid Period |
|---|----------------------------|-------------------|------------------|--------------|
| Network Analyzer | E5071C S/N MY46523591 | Keysight | 2023/2/16 | 2024/2/15 |
| Quad-Ridge Horn Antenna 700 MHz-10 GHz | EMCO 3164-08 S/N 161915 | ETS-Lindgren L.P. | N/A | N/A |
| MAPS Controller | EMCENTER S/N 160485 | ETS-Lindgren L.P. | N/A | N/A |



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4 Measurement Uncertainty

| Item | 2400-2500 MHz (dB) |
|------------|--------------------|
| Gain | 0.88 |
| Efficiency | 0.88 |

Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2



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5 Test Results

| Free Space | | | |
|-----------------|-----------------|----------------|------------|
| Frequency (MHz) | Efficiency (dB) | Efficiency (%) | Gain (dBi) |
| 2350 | -6.66 | 21.58 | -1.82 |
| 2355 | -6.63 | 21.73 | -1.72 |
| 2360 | -6.38 | 23.02 | -1.64 |
| 2365 | -6.50 | 22.41 | -1.89 |
| 2370 | -6.34 | 23.24 | -1.74 |
| 2375 | -6.55 | 22.12 | -2.14 |
| 2380 | -6.19 | 24.02 | -1.79 |
| 2385 | -6.04 | 24.86 | -1.75 |
| 2390 | -5.75 | 26.61 | -1.42 |
| 2395 | -5.53 | 28.01 | -1.20 |
| 2400 | -5.71 | 26.87 | -1.37 |
| 2402 | -5.59 | 27.63 | -1.21 |
| 2405 | -5.56 | 27.80 | -1.26 |
| 2410 | -5.59 | 27.62 | -1.24 |
| 2415 | -5.28 | 29.63 | -1.05 |
| 2420 | -5.06 | 31.21 | -0.86 |
| 2425 | -5.13 | 30.68 | -0.99 |
| 2430 | -5.04 | 31.34 | -0.91 |
| 2435 | -5.30 | 29.52 | -1.17 |
| 2440 | -5.12 | 30.75 | -0.97 |
| 2441 | -5.04 | 31.31 | -0.88 |
| 2445 | -5.09 | 30.97 | -0.95 |
| 2450 | -4.99 | 31.70 | -0.82 |
| 2455 | -4.76 | 33.41 | -0.38 |
| 2460 | -4.93 | 32.13 | -0.47 |



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| | | | |
|------|-------|-------|-------|
| 2465 | -4.88 | 32.49 | -0.26 |
| 2470 | -5.19 | 30.30 | -0.62 |
| 2475 | -5.15 | 30.54 | -0.53 |
| 2480 | -5.22 | 30.03 | -0.49 |
| 2482 | -5.25 | 29.84 | -0.52 |
| 2485 | -5.21 | 30.13 | -0.43 |
| 2490 | -5.27 | 29.74 | -0.39 |
| 2495 | -5.19 | 30.26 | -0.30 |
| 2500 | -5.25 | 29.85 | -0.28 |
| 2505 | -5.19 | 30.27 | -0.20 |
| 2510 | -5.26 | 29.77 | -0.27 |
| 2515 | -5.55 | 27.88 | -0.45 |
| 2520 | -5.81 | 26.23 | -0.55 |
| 2525 | -6.21 | 23.91 | -1.03 |
| 2530 | -6.45 | 22.64 | -1.15 |
| 2535 | -6.68 | 21.47 | -1.42 |
| 2540 | -6.80 | 20.90 | -1.48 |
| 2545 | -6.85 | 20.68 | -1.50 |
| 2550 | -7.00 | 19.94 | -1.66 |
| 2555 | -7.28 | 18.71 | -1.92 |
| 2560 | -7.63 | 17.25 | -2.34 |
| 2565 | -7.98 | 15.94 | -2.73 |
| 2570 | -8.31 | 14.76 | -3.11 |
| 2575 | -8.51 | 14.08 | -3.23 |
| 2580 | -8.87 | 12.96 | -3.77 |



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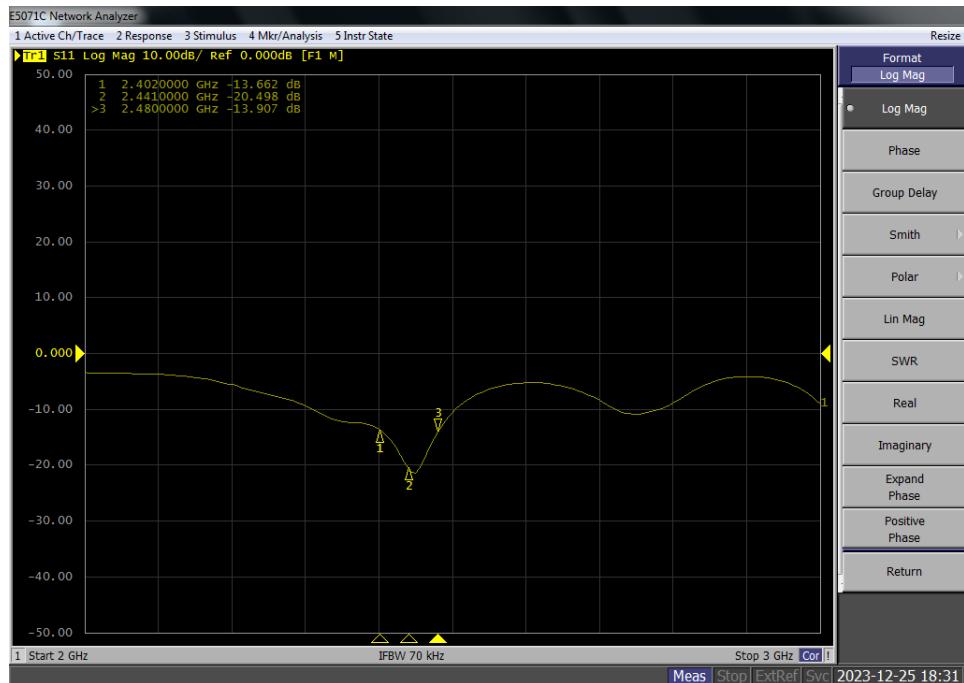
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6 Pattern Plots

6.1 Return Loss

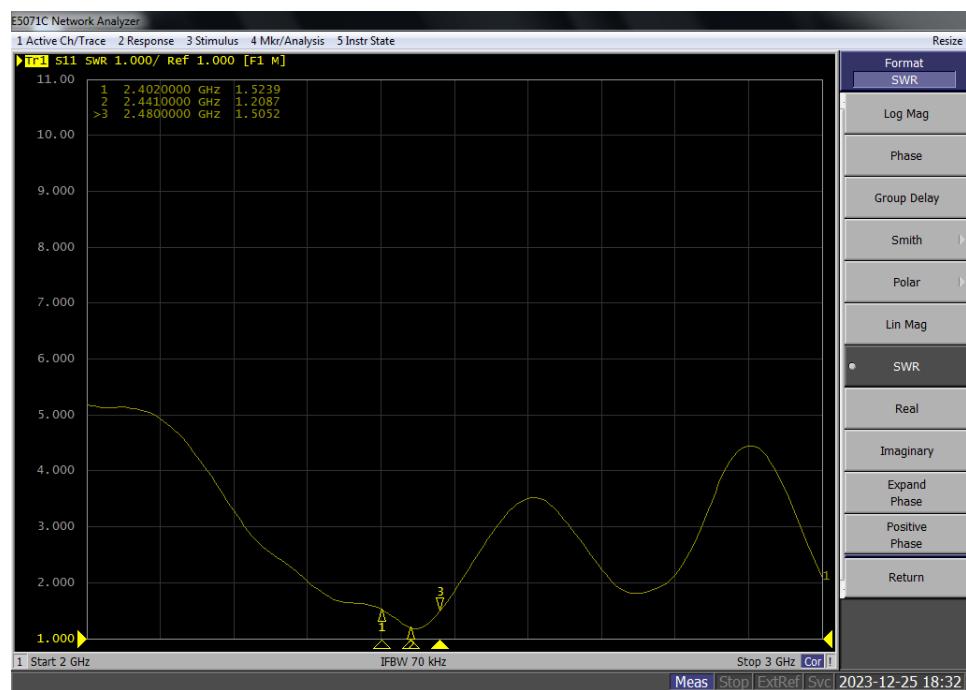


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6.2 VSWR



Free Space



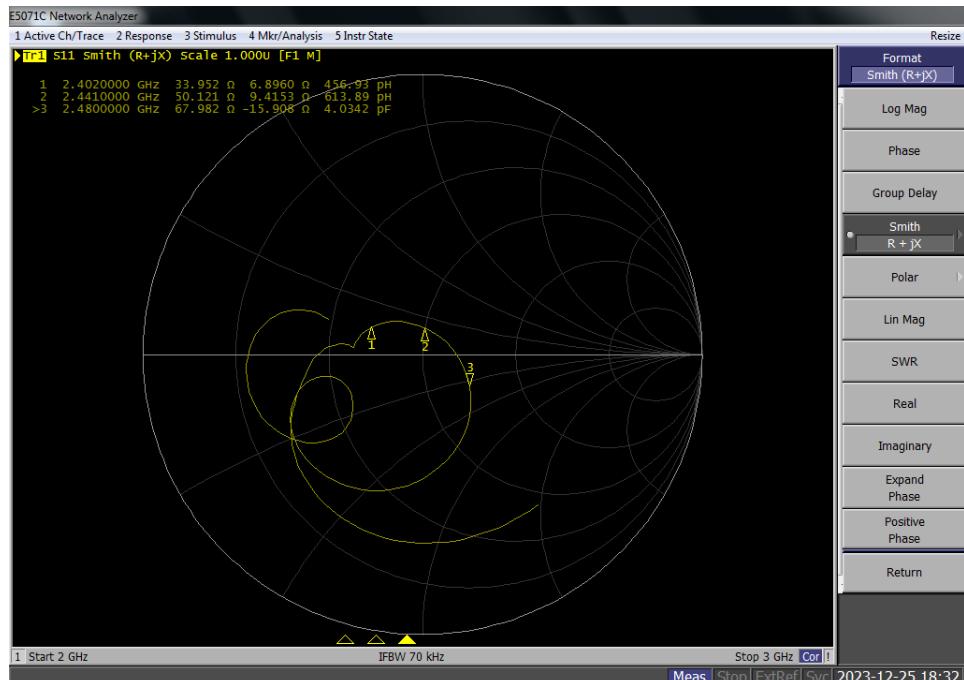
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6.3 Stimulus

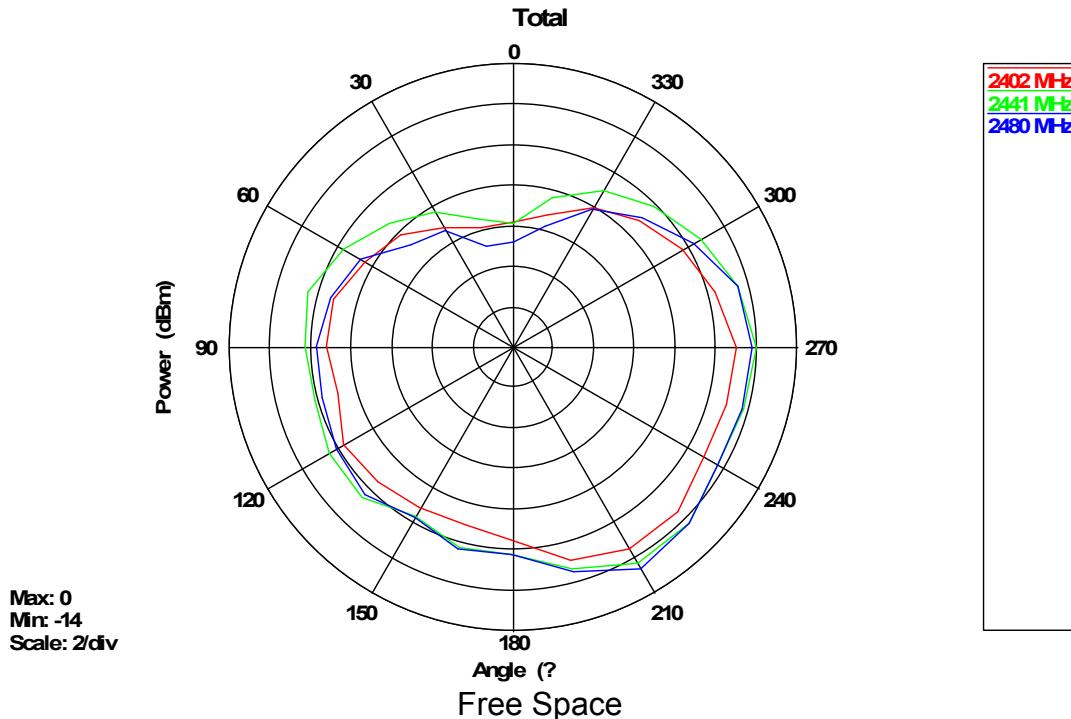


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7 2-D Antenna Pattern(Theta=90°)

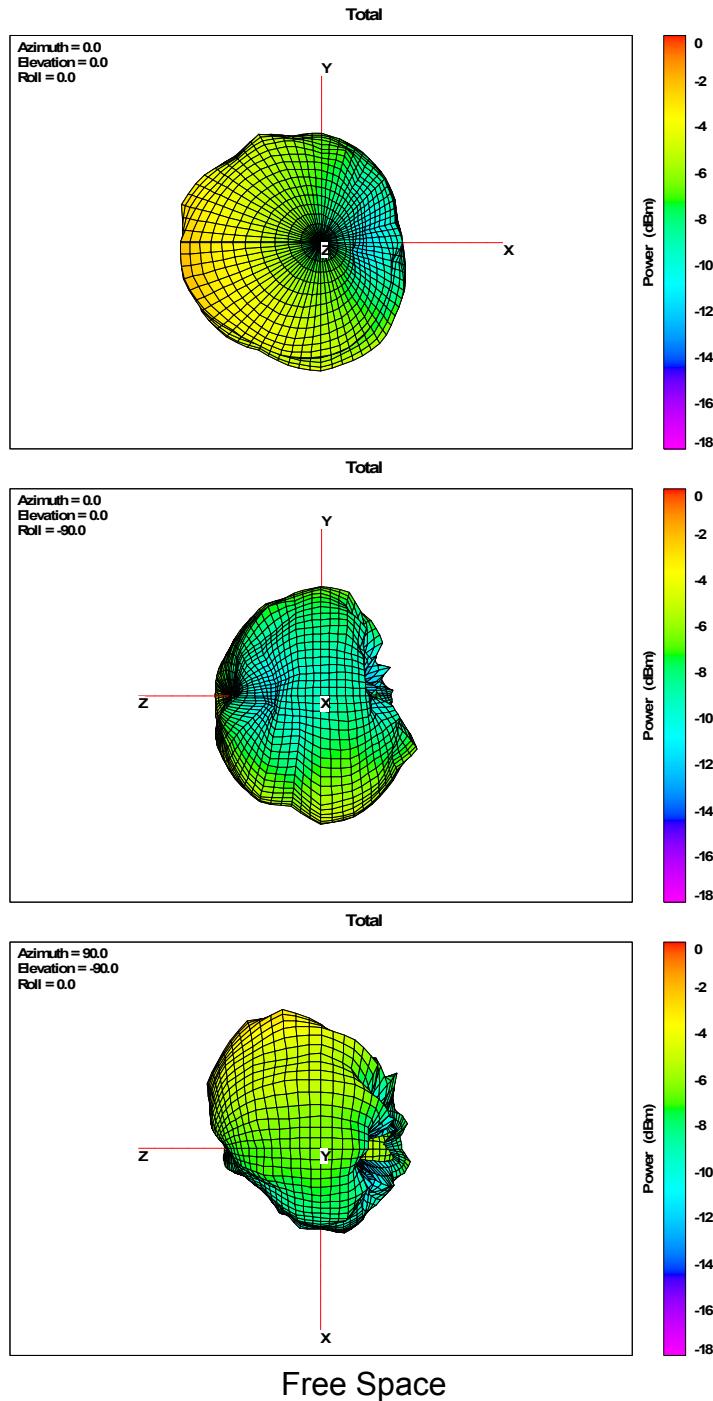


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8 3-D Antenna Pattern



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9 The EUT and Test Configuration

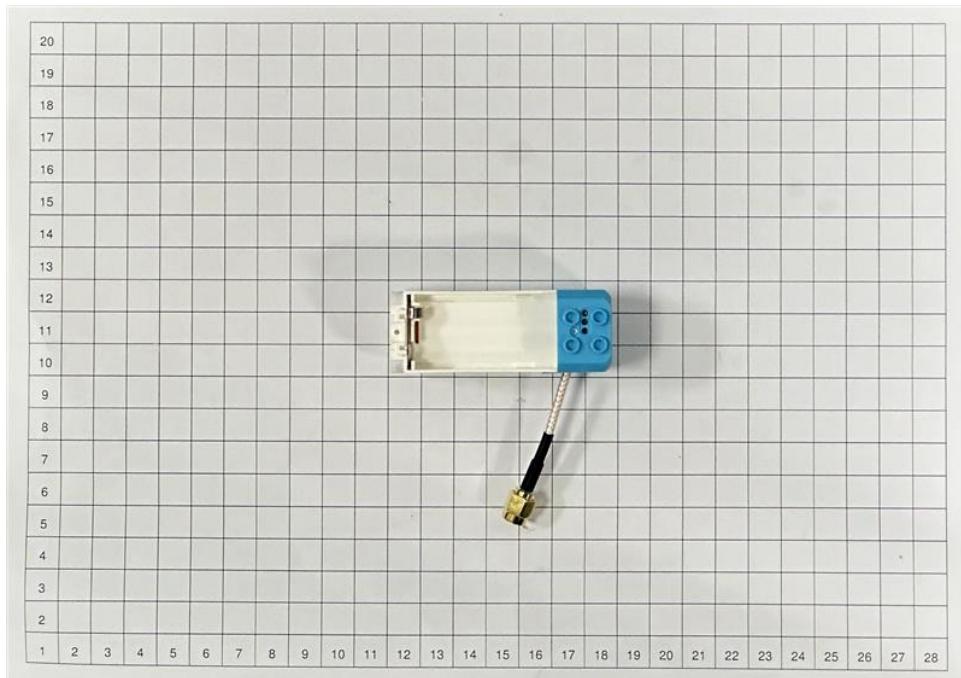
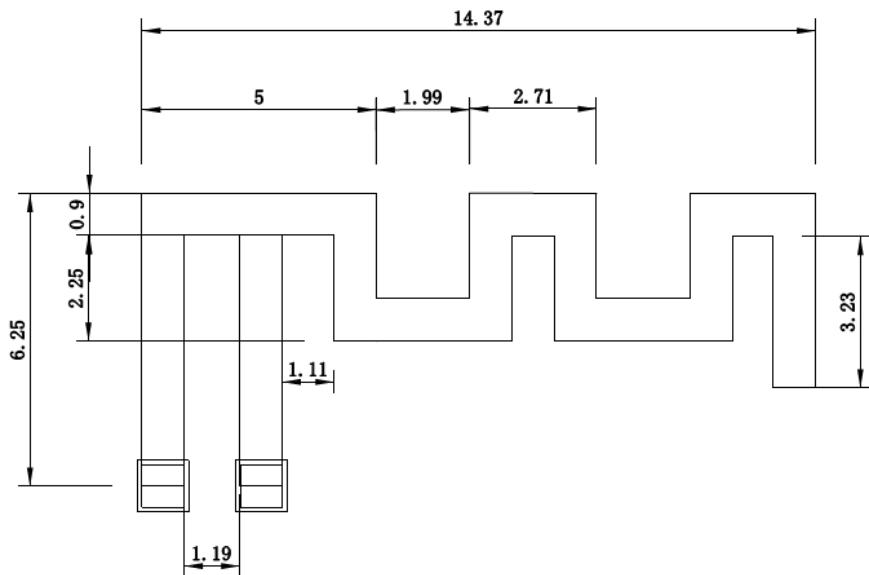


Photo of EUT



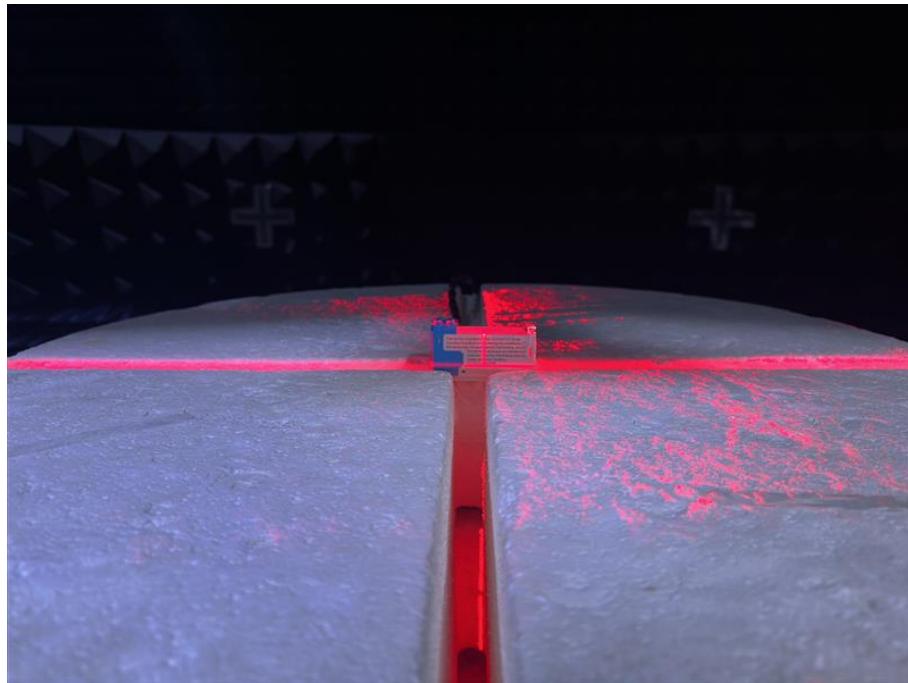
Antenna Dimensions



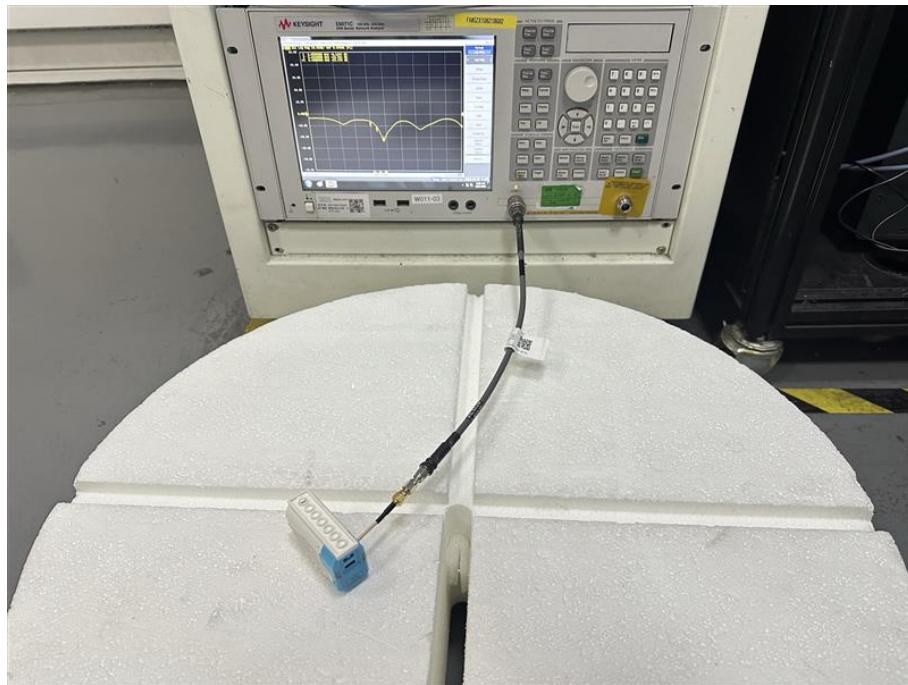
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Free Space View



Free Space Impedance Setup

---END---



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