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ANTENNA PASSIVE TEST REPORT

Application No. SZOA2412000232AT

Applicant Shenzhen Tilv Technology Co., Ltd Manufacturer Shenzhen Tilv Technology Co., Ltd

Product Name Smart tracker WHT

Model No. XTR6-1000-WHT,XTR6-1000-4PK

Standards ANSI/IEEE Std 149-2021

Date Initial Sample(s) Received Dec.23, 2024 **Testing Start Date** Dec.23, 2024 **Testing Finish Date** Dec.23, 2024 **Report Issue Date** Dec.31, 2024

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

Yuanyu Luo

Prepared by: Yuanyu Luo/ Test

Engineer

Approved by: Ervin Li/ Technical

Erom Li

Manager



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Revision History

| Revision | Issue Date | Description |
|----------|--------------|----------------------------|
| 01 | Dec.31, 2024 | Initial creation of report |



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General Information 1

1.1 Testing Laboratory

| Test Lab | SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen |
|----------|--|
| 1651 Lab | Branch |
| Address | No. 1 Workshop, M-10, Middle section, Science & Technology |
| Address | 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 Tilv Technology Co., Ltd |
|---------------------|---|
| Applicant's Address | 3/F Dongshan No.8 factory, Difu Rd., Gushu Community, Xixiang St., Baoan District, Shenzhen, China. |
| | , , , |
| Contact | Grace |
| Tel. | 18818778273 |
| Fax | N/A |
| E-mail | sales1@sztyv.com |

1.3 Details of Manufacturer

| Manufacturer's Name | Shenzhen Tilv Technology Co., Ltd |
|------------------------|---|
| | 3/F Dongshan No.8 factory, Difu Rd., Gushu Community, Xixiang |
| Manufacturer's Address | St., Baoan District, Shenzhen , China. |
| Contact | Grace |
| Tel. | 18818778273 |
| Fax | N/A |
| E-mail | sales1@sztyv.com |



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1.4 General Description of EUT

| Device Description: | |
|-------------------------|-----------------------------------|
| Device Manufacturer: | Shenzhen Tilv Technology Co., Ltd |
| Device Model: | XTR6-1000-WHT,XTR6-1000-4PK |
| Hardware Version: | N/A |
| Software Version: | N/A |
| Air Interface Supported | PCB Antenna |
| Dimension: | 8.52 x 2.27x0.5 |

1.5 Test Procedure

Testing is performed according to the ANSI/IEEE Std 149-2021.



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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 $<0.5\Omega$ | | 5Ω | |



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OTA Measurements System Configuration

2.1 Test Configuration

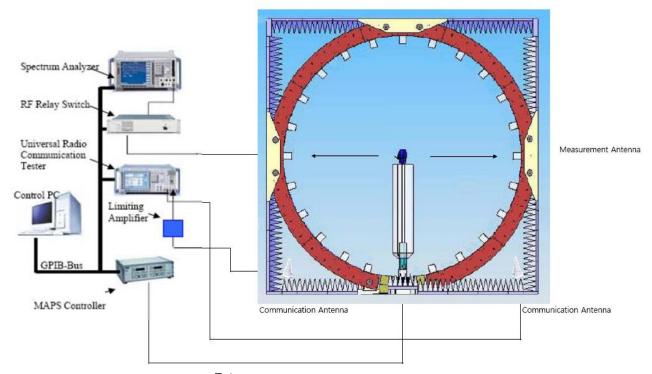
Testing Condition:

Temperature: 22±3°C

Humidity: <80%

Measurement Facility:

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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Test Equipment List 3

| Type of Equipment | Model Number | Manufacture | Calibration Date | Valid Period |
|---|----------------------------|-------------------|------------------|--------------|
| Network Analyzer | E5071C S/N MY46523591 | Keysight | 2024/01/30 | 2025/01/29 |
| 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 |
| SAM V4.5BS Head Phantom | Head Phantom S/N 3609 | SPEAG | NCR | NCR |

Definition of Acronyms:

NCR: No Calibration Requirement.



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Measurement Uncertainty

| | J | |
|---|--------------------|--|
| 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 | -16.21 | 2.39 | -9.60 | |
| 2355 | -16.52 | 2.23 | -9.91 | |
| 2360 | -16.40 | 2.29 | -9.69 | |
| 2365 | -16.53 | 2.22 | -9.83 | |
| 2370 | -16.59 | 2.19 | -9.71 | |
| 2375 | -16.57 | 2.20 | -9.67 | |
| 2380 | -16.44 | 2.27 | -9.37 | |
| 2385 | -16.22 | 2.39 | -9.14 | |
| 2390 | -16.25 | 2.37 | -9.13 | |
| 2395 | -16.26 | 2.37 | -9.15 | |
| 2400 | -16.68 | 2.15 | -9.62 | |
| 2402 | -16.90 | 2.04 | -9.94 | |
| 2405 | -17.05 | 1.97 | -10.13 | |
| 2410 | -17.06 | 1.97 | -10.21 | |
| 2415 | -16.98 | 2.00 | -10.17 | |
| 2420 | -16.73 | 2.12 | -9.92 | |
| 2425 | -16.69 | 2.15 | -9.89 | |
| 2430 | -16.67 | 2.15 | -9.97 | |
| 2435 | -16.70 | 2.14 | -9.99 | |
| 2440 | -16.76 | 2.11 | -10.03 | |
| 2441 | -16.75 | 2.12 | -10.06 | |
| 2445 | -16.75 | 2.11 | -9.81 | |



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| 2450 | -16.85 | 2.06 | -9.91 |
|------|--------|------|--------|
| 2455 | -16.84 | 2.07 | -9.99 |
| 2460 | -17.05 | 1.97 | -10.28 |
| 2465 | -17.05 | 1.97 | -10.18 |
| 2470 | -17.16 | 1.93 | -10.35 |
| 2475 | -16.99 | 2.00 | -10.22 |
| 2480 | -16.88 | 2.05 | -10.18 |
| 2485 | -16.84 | 2.07 | -10.11 |
| 2490 | -16.82 | 2.08 | -10.09 |
| 2495 | -16.86 | 2.06 | -9.90 |
| 2500 | -16.82 | 2.08 | -9.54 |
| 2505 | -16.86 | 2.06 | -9.39 |
| 2510 | -16.87 | 2.05 | -9.44 |
| 2515 | -16.93 | 2.03 | -9.51 |
| 2520 | -17.03 | 1.98 | -9.69 |
| 2525 | -17.13 | 1.94 | -10.04 |
| 2530 | -17.21 | 1.90 | -10.33 |
| 2535 | -17.25 | 1.89 | -10.29 |
| 2540 | -17.29 | 1.87 | -10.32 |
| 2545 | -17.34 | 1.84 | -10.35 |
| 2550 | -17.38 | 1.83 | -10.44 |
| 2555 | -17.55 | 1.76 | -10.74 |
| 2560 | -17.66 | 1.71 | -10.95 |
| 2565 | -17.77 | 1.67 | -11.11 |
| 2570 | -17.68 | 1.71 | -10.98 |
| 2575 | -17.50 | 1.78 | -10.73 |
| 2580 | -17.32 | 1.86 | -10.43 |
| | • | | |



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Pattern Plots

6.1 Return Loss



Free Space



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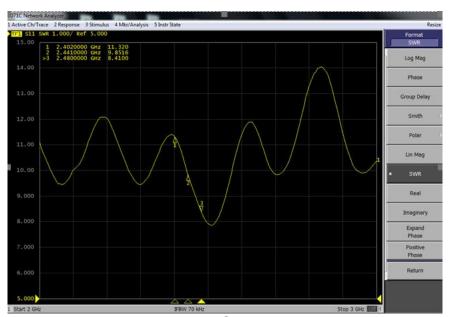


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6.2 VSWR



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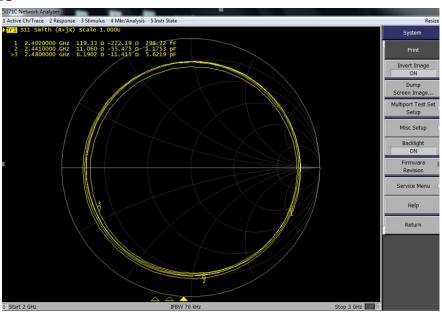


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6.3 Stimulus



Free Space



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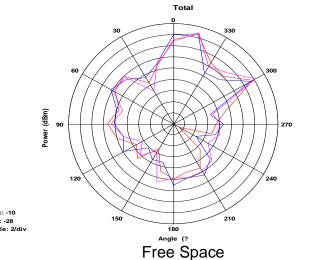


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2-D Antenna Pattern(Theta=90°)







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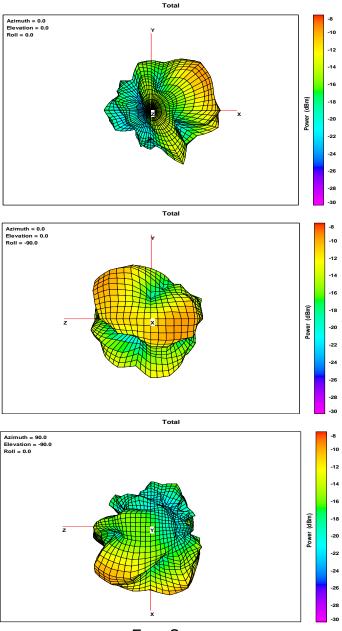


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3-D Antenna Pattern







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The EUT and Test Configuration 9

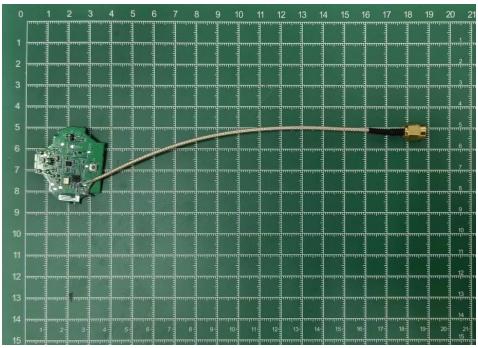
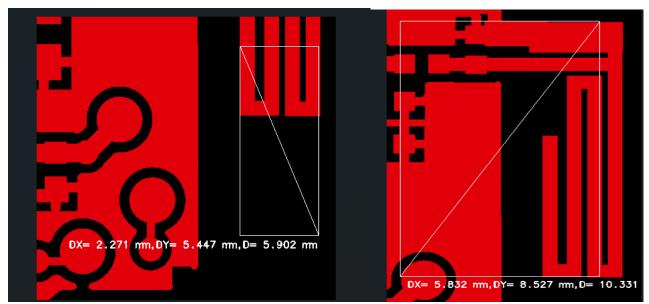


Photo of EUT



Antenna Dimensions



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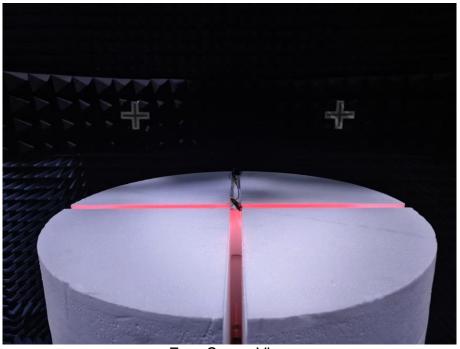
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Free Space View



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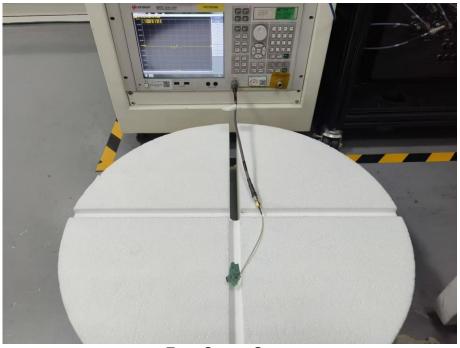
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Free Space Setup

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