



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Rev.: 01
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ANTENNA PASSIVE TEST REPORT

Application No. SZOA2606000136AT
Applicant Ostron Ltd
Manufacturer Ostron Ltd
Product Name Ostron
Model No. OST1
Standards ANSI/IEEE Std 149-2021
Date Initial Sample(s) Received June 4, 2026
Testing Start Date June 5, 2026
Testing Finish Date June 10, 2026
Report Issue Date June 15, 2026

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

Yuanyu Luo

Ervin Li

Prepared by: Yuanyu Luo/ Test Engineer

Approved by: Ervin Li/ Technical Manager



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Revision History

Revision	Issue Date	Description
01	June 15, 2026	Initial creation of report



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Wireless Laboratory

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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	Ostron Ltd
Applicant's Address	483 Green Lanes, London, England, N13 4BS
Contact	Edvardas Damusis
Tel.	+447830694742
Fax	N/A
E-mail	info@getostron.com

1.3 Details of Manufacturer

Manufacturer's Name	Ostron Ltd
Manufacturer's Address	483 Green Lanes, London, England, N13 4BS
Contact	Edvardas Damusis
Tel.	+447830694742
Fax	N/A
E-mail	info@getostron.com



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1.4 General Description of EUT

Device Description:	Ostron
Device Manufacturer:	Ostron Ltd
Device Model:	OST1
Hardware Version:	N/A
Software Version:	N/A
Air Interface Supported	N/A
Antenna type:	N/A

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 149-2021	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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2 OTA Measurements System Configuration

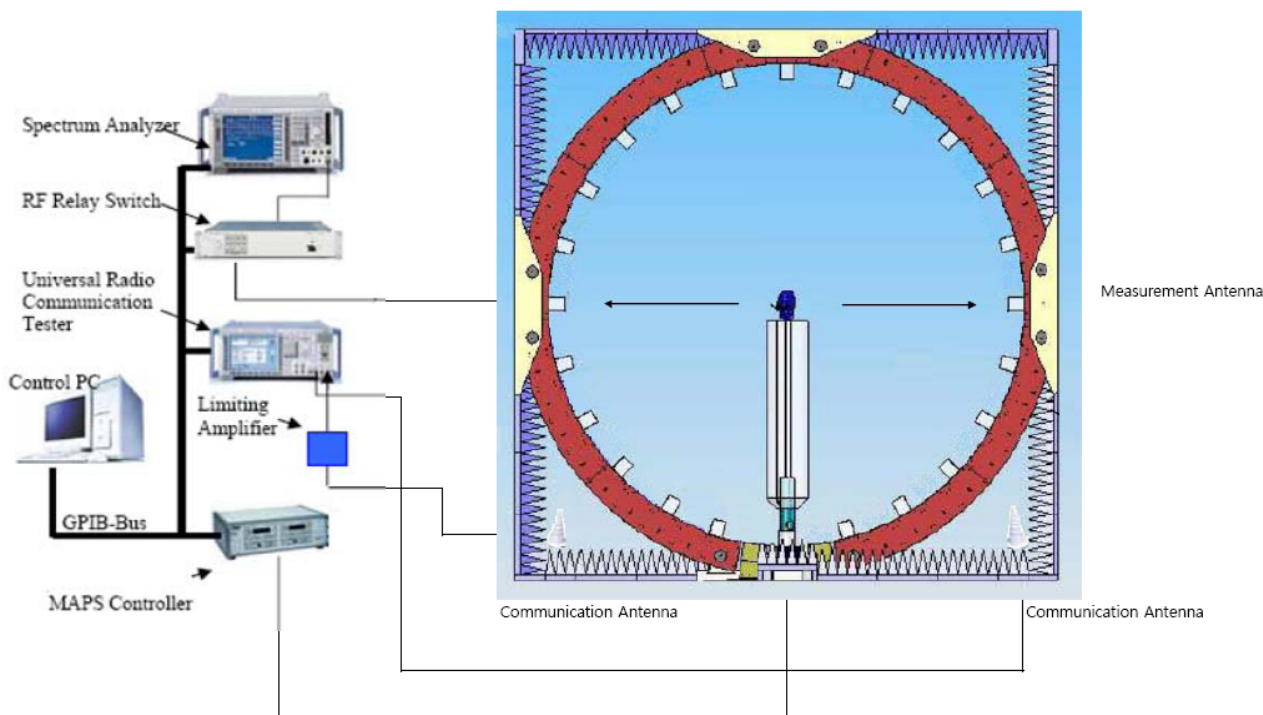
2.1 Test Configuration

Testing Condition:

- Temperature: $22 \pm 3^\circ\text{C}$
- 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 1.95m



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	2025/12/15	2026/12/14
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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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

FS			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-3.33	46.50	0.65
2355	-3.33	46.50	0.62
2360	-3.38	45.88	0.55
2365	-3.31	46.66	0.54
2370	-4.11	38.82	-0.22
2375	-4.32	37.02	-0.37
2380	-4.48	35.68	-0.52
2385	-4.73	33.68	-0.83
2390	-4.75	33.46	-0.88
2395	-4.84	32.83	-1.05
2400	-4.85	32.75	-1.05
2402	-4.83	32.92	-1.01
2405	-4.92	32.18	-0.99
2410	-4.94	32.05	-1.02
2415	-5.10	30.90	-0.96
2420	-5.15	30.57	-1.07
2425	-5.18	30.34	-1.05
2430	-5.36	29.08	-1.23
2435	-5.39	28.90	-1.29
2440	-5.59	27.61	-1.55
2441	-5.68	27.06	-1.65
2445	-5.86	25.92	-1.71
2450	-5.92	25.59	-1.76
2455	-5.99	25.16	-1.88
2460	-6.05	24.85	-1.80
2465	-6.29	23.47	-2.10
2470	-6.52	22.29	-2.13
2475	-6.83	20.75	-2.52
2480	-7.05	19.73	-2.62
2482	-7.06	19.70	-2.62
2485	-7.11	19.45	-2.64
2490	-7.06	19.69	-2.53
2495	-6.96	20.14	-2.41
2500	-7.04	19.79	-2.55
2505	-7.14	19.33	-2.57
2510	-7.41	18.16	-2.76
2515	-7.62	17.28	-3.02
2520	-7.87	16.35	-3.20
2525	-7.99	15.87	-3.22
2530	-8.24	14.99	-3.34
2535	-8.60	13.81	-3.58
2540	-8.85	13.04	-3.75
2545	-9.13	12.22	-4.00
2550	-9.15	12.17	-3.96
2555	-9.18	12.07	-3.84
2560	-9.11	12.27	-3.86
2565	-9.19	12.05	-3.76
2570	-9.40	11.48	-3.89
2575	-9.55	11.10	-3.99
2580	-9.57	11.04	-4.02



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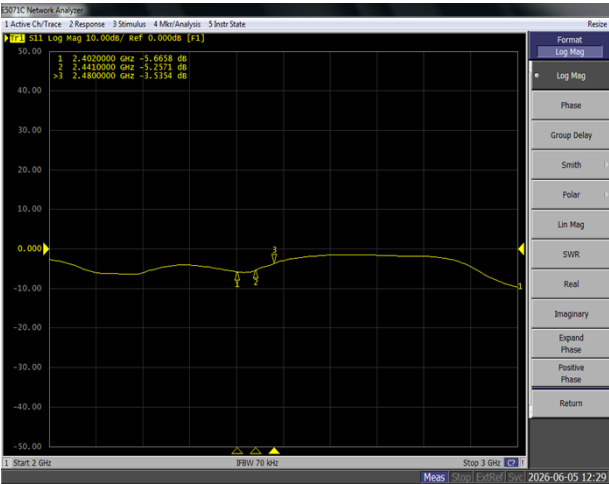
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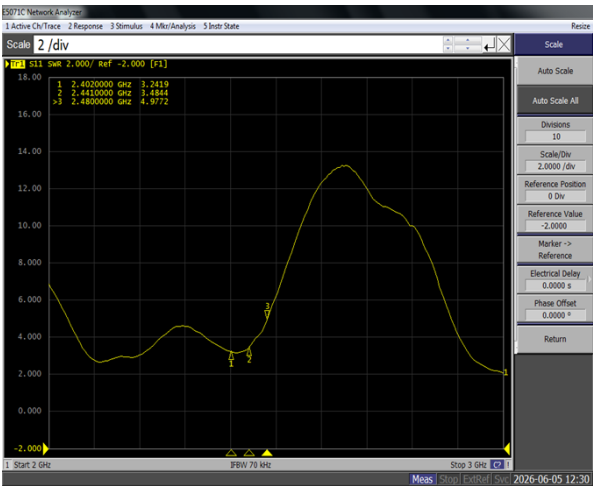
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6 Pattern Plots

6.1 Return Loss



6.2 VSWR

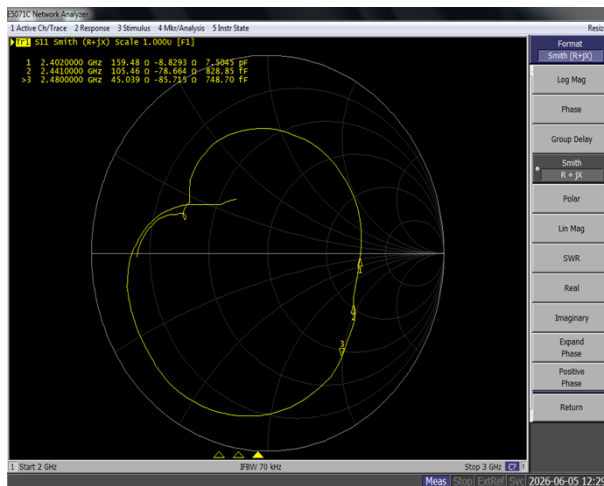


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6.3 Stimulus

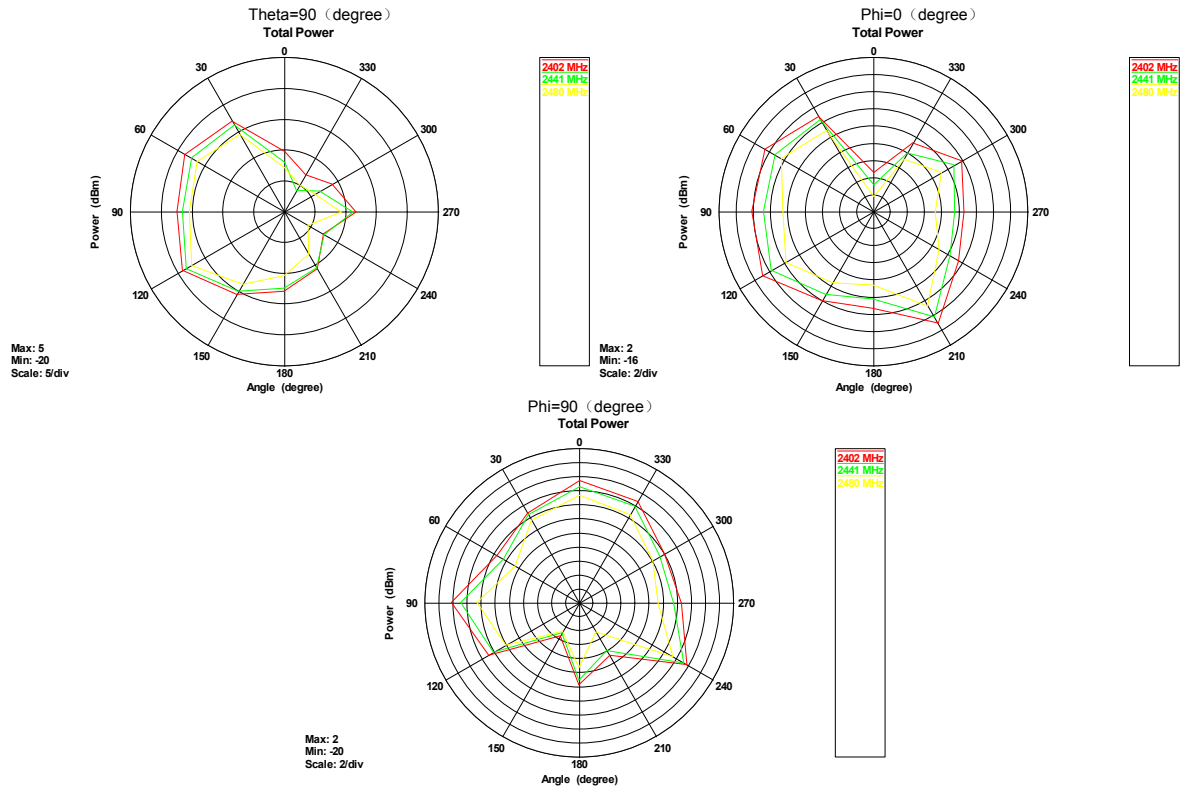


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7 2-D Antenna Pattern

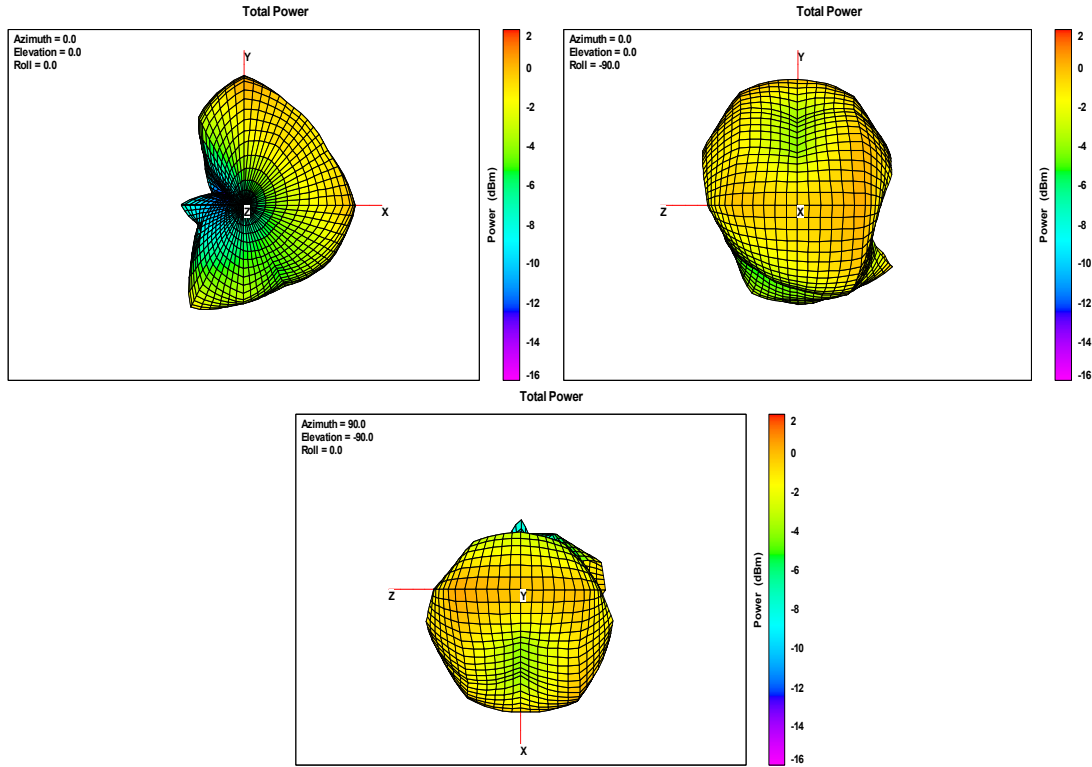


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8 3-D Antenna Pattern



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9 The EUT and Test Configuration

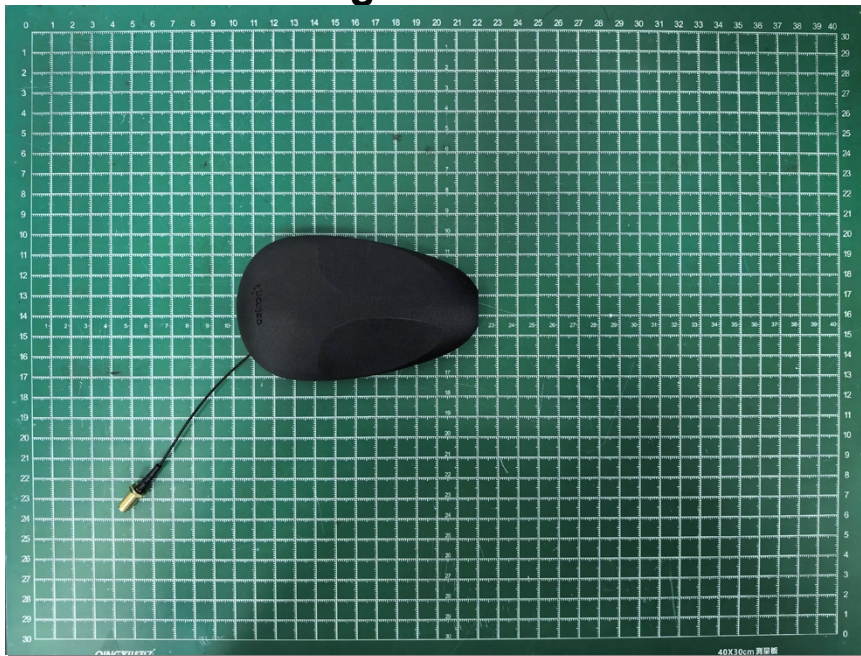
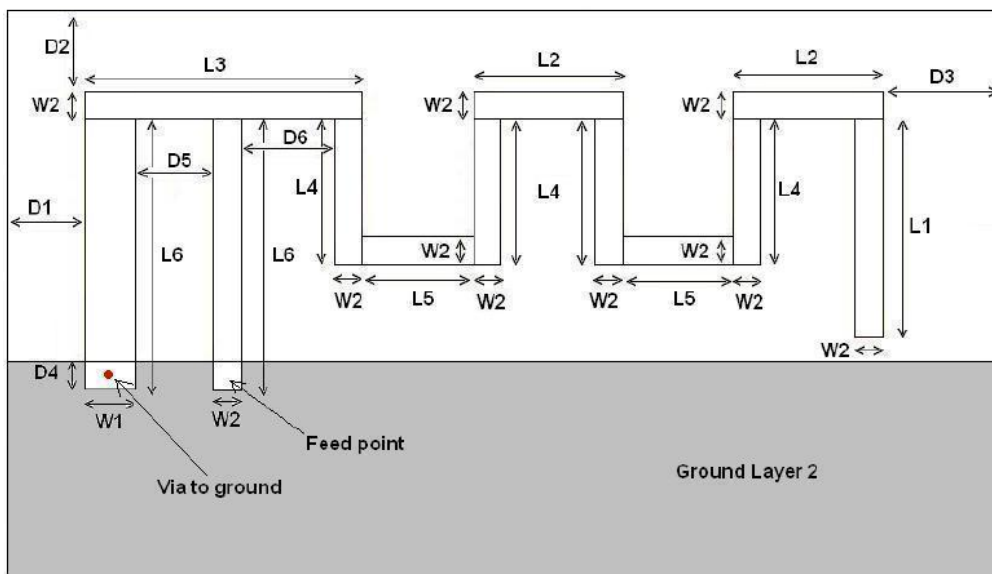


Photo of EUT



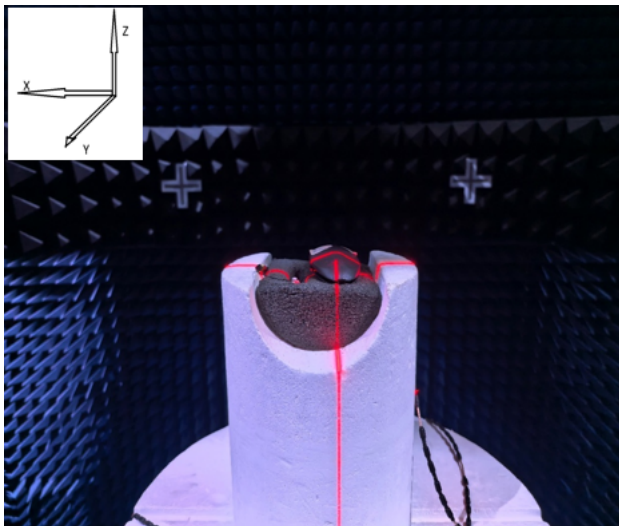
Antenna Dimensions



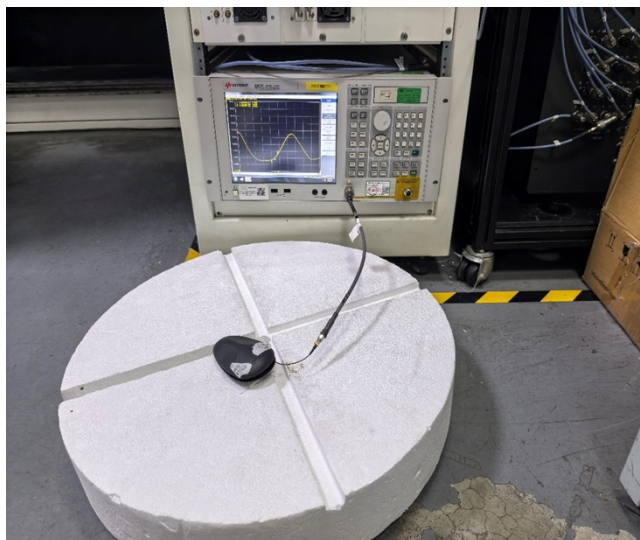
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Free Space View



Free Space Impedance Setup

---END---



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