

ANTENNA PASSIVE TEST REPORT

Application No. SZOR2404000007AT
Applicant Zhongshan Jun Cheng Plastic Electronic Toys.,Ltd
Manufacturer Zhongshan Jun Cheng Plastic Electronic Toys.,Ltd
Product Name 2.4G Antenna
Model No. 1# dipole 2# dipole 3# dipole
Standards ANSI/IEEE Std 149-2008
Date Initial Sample(s) Received 2024.04.26
Testing Start Date 2024.04.26
Testing Finish Date 2024.04.26
Report Issue Date 2024.05.08

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

YUANYU LUO

Prepared by

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Reviewed By

Yubin Li

Approved by



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Revision Version

Report No.	Version	Date	Memo
SZOR2404000007AT01	01	2023.05.08	Initial creation of report



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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	Zhongshan Jun Cheng Plastic Electronic Toys.,Ltd
Applicant's Address	Yagang Industrial Zone, Sanxiang Township, Zhongshan City, Guangdong Province
Contact	Hongbin Deng
Tel.	+86 15016116591
Fax	N/A
E-mail	david@junchengtoys.com.cn

1.3 Details of Manufacturer

Manufacturer's Name	Zhongshan Jun Cheng Plastic Electronic Toys.,Ltd
Manufacturer's Address	Yagang Industrial Zone, Sanxiang Township, Zhongshan City, Guangdong Province
Contact	Hongbin Deng
Tel.	+86 15016116591
Fax	N/A
E-mail	david@junchengtoys.com.cn



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1.4 General Description of EUT

Device Description:	2.4G Antenna
Device Manufacturer:	Zhongshan Jun Cheng Plastic Electronic Toys.,Ltd
Device Model:	1# dipole 2# dipole 3# dipole
Hardware Version:	N/A
Software Version:	N/A
Antenna Dimensions:	1# 33mm 2# 38mm 3# 33mm

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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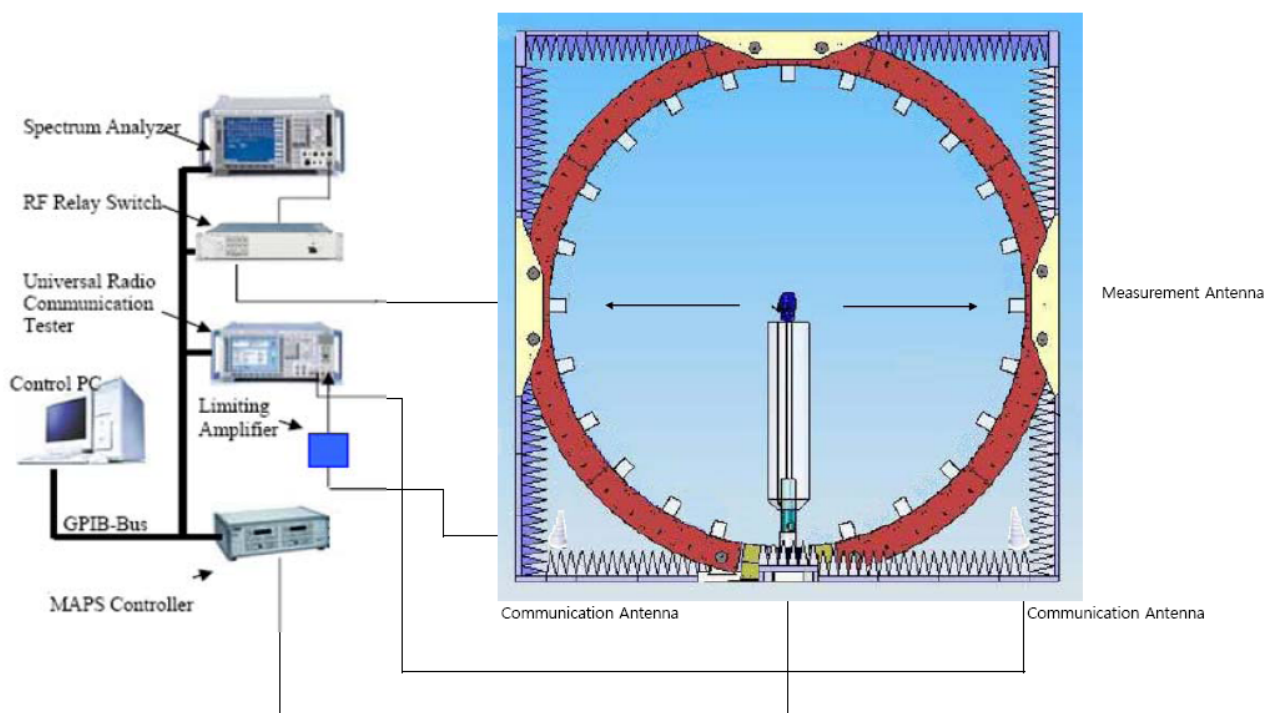
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2 OTA Measurements System Configuration

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	2024/1/30	2025/1/29
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

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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

1# dipole			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-10.72	8.48	-4.68
2355	-11.03	7.90	-5.20
2360	-10.87	8.18	-5.05
2365	-11.06	7.83	-5.21
2370	-11.17	7.63	-5.28
2375	-11.31	7.40	-5.37
2380	-11.44	7.18	-5.49
2385	-11.34	7.34	-5.35
2390	-11.47	7.14	-5.61
2395	-11.37	7.29	-5.53
2400	-11.63	6.87	-5.99
2402	-11.77	6.65	-6.10
2405	-11.81	6.59	-6.16
2410	-11.77	6.66	-6.31
2415	-11.75	6.68	-6.22
2420	-11.49	7.09	-5.99
2425	-11.54	7.01	-6.03
2430	-11.65	6.84	-6.11
2435	-11.68	6.80	-6.15
2440	-11.67	6.81	-6.15
2441	-11.63	6.87	-6.17
2445	-11.40	7.24	-5.80
2450	-11.38	7.28	-5.71
2455	-11.23	7.53	-5.70
2460	-11.31	7.39	-5.76



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2465	-11.37	7.29	-6.03
2470	-11.57	6.96	-6.33
2475	-11.72	6.72	-6.67
2480	-11.77	6.65	-6.89
2482	-11.77	6.66	-6.84
2485	-11.73	6.71	-6.79
2490	-11.57	6.97	-6.76
2495	-11.30	7.41	-6.35
2500	-11.05	7.85	-6.27
2505	-10.81	8.29	-6.10
2510	-10.70	8.52	-6.15
2515	-10.83	8.27	-6.33
2520	-10.98	7.98	-6.45
2525	-11.07	7.82	-6.51
2530	-11.07	7.82	-6.39
2535	-10.96	8.01	-6.30
2540	-10.82	8.28	-5.98
2545	-10.58	8.75	-5.72
2550	-10.57	8.77	-5.69
2555	-10.60	8.71	-5.76
2560	-10.76	8.40	-5.75
2565	-10.78	8.35	-5.74
2570	-10.75	8.42	-5.76
2575	-10.61	8.69	-5.67
2580	-10.36	9.20	-5.44



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2# dipole			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-8.30	14.80	-3.32
2355	-8.68	13.55	-3.90
2360	-8.58	13.85	-3.79
2365	-8.83	13.09	-4.13
2370	-9.08	12.35	-4.48
2375	-9.18	12.07	-4.56
2380	-9.41	11.47	-4.99
2385	-9.27	11.84	-4.81
2390	-9.46	11.32	-4.92
2395	-9.39	11.51	-4.70
2400	-9.68	10.77	-4.85
2402	-9.90	10.24	-5.01
2405	-9.98	10.05	-5.03
2410	-9.96	10.09	-4.87
2415	-10.13	9.69	-4.93
2420	-10.03	9.94	-4.75
2425	-10.25	9.43	-4.99
2430	-10.53	8.85	-5.28
2435	-10.70	8.50	-5.55
2440	-10.89	8.15	-5.76
2441	-10.89	8.15	-5.77
2445	-10.78	8.36	-5.78
2450	-10.87	8.18	-5.98
2455	-10.83	8.27	-5.75
2460	-11.05	7.84	-5.89
2465	-11.24	7.51	-5.95



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2470	-11.58	6.95	-6.20
2475	-11.83	6.56	-6.51
2480	-11.99	6.32	-6.81
2482	-12.01	6.29	-6.86
2485	-12.04	6.26	-7.09
2490	-11.94	6.40	-7.02
2495	-11.72	6.74	-6.84
2500	-11.59	6.94	-6.62
2505	-11.51	7.06	-6.51
2510	-11.63	6.88	-6.79
2515	-11.97	6.36	-7.27
2520	-12.30	5.89	-7.86
2525	-12.51	5.62	-8.21
2530	-12.58	5.52	-8.42
2535	-12.57	5.54	-8.49
2540	-12.54	5.57	-8.58
2545	-12.50	5.62	-8.65
2550	-12.67	5.41	-8.76
2555	-12.82	5.23	-8.88
2560	-12.97	5.04	-8.90
2565	-12.95	5.07	-8.62
2570	-12.86	5.18	-8.50
2575	-12.76	5.29	-8.37
2580	-12.64	5.44	-8.39



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3# dipole			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-4.28	37.36	3.69
2355	-4.39	36.40	3.49
2360	-4.22	37.84	3.66
2365	-4.42	36.16	3.34
2370	-4.32	37.01	3.36
2375	-4.53	35.27	3.04
2380	-4.38	36.48	3.08
2385	-4.37	36.56	3.05
2390	-4.37	36.58	3.02
2395	-4.34	36.80	3.00
2400	-4.72	33.70	2.67
2402	-4.74	33.57	2.59
2405	-4.81	33.05	2.55
2410	-5.02	31.45	2.35
2415	-4.96	31.89	2.36
2420	-4.82	32.96	2.34
2425	-4.93	32.10	2.34
2430	-4.98	31.75	2.12
2435	-5.24	29.91	2.00
2440	-5.13	30.71	2.02
2441	-5.05	31.24	2.00
2445	-4.98	31.75	2.27
2450	-4.90	32.34	2.33
2455	-4.73	33.62	2.42
2460	-4.89	32.40	2.32
2465	-4.83	32.89	2.20



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2470	-5.11	30.81	2.05
2475	-5.15	30.52	1.79
2480	-5.24	29.94	1.92
2482	-5.29	29.56	1.78
2485	-5.23	30.00	1.78
2490	-5.19	30.26	2.00
2495	-5.05	31.24	2.07
2500	-5.01	31.57	2.18
2505	-4.89	32.43	2.16
2510	-4.86	32.69	2.20
2515	-4.99	31.67	1.98
2520	-5.11	30.86	1.78
2525	-5.32	29.35	1.55
2530	-5.33	29.31	1.45
2535	-5.31	29.47	1.53
2540	-5.15	30.56	1.59
2545	-4.93	32.17	1.91
2550	-4.80	33.12	1.92
2555	-4.78	33.26	2.02
2560	-4.84	32.82	1.84
2565	-4.86	32.65	1.88
2570	-4.87	32.59	1.78
2575	-4.70	33.86	1.99
2580	-4.71	33.83	1.96



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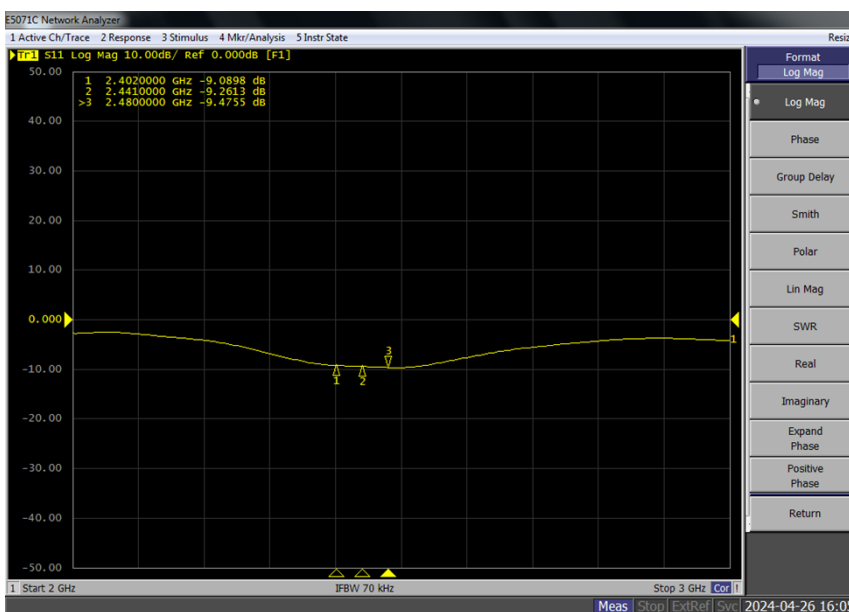
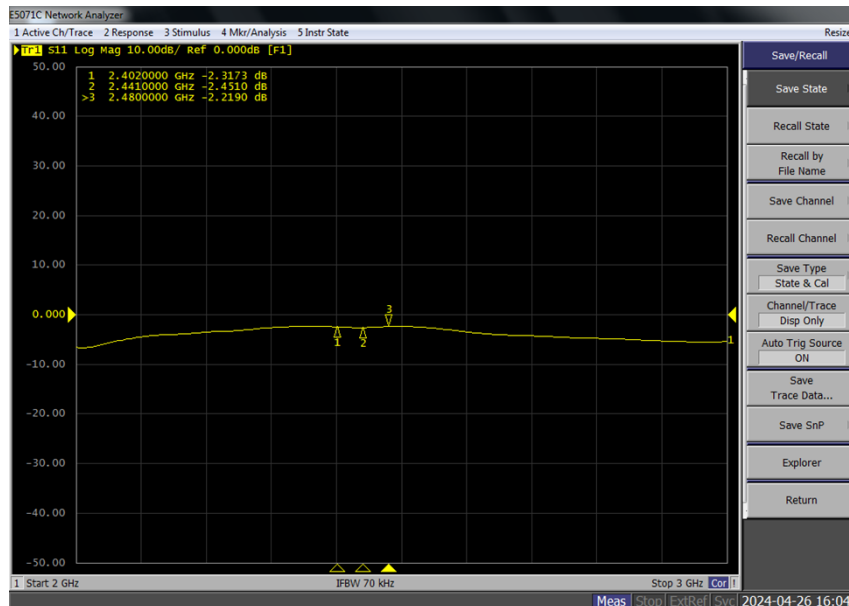
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6 Pattern Plots

6.1 Return Loss

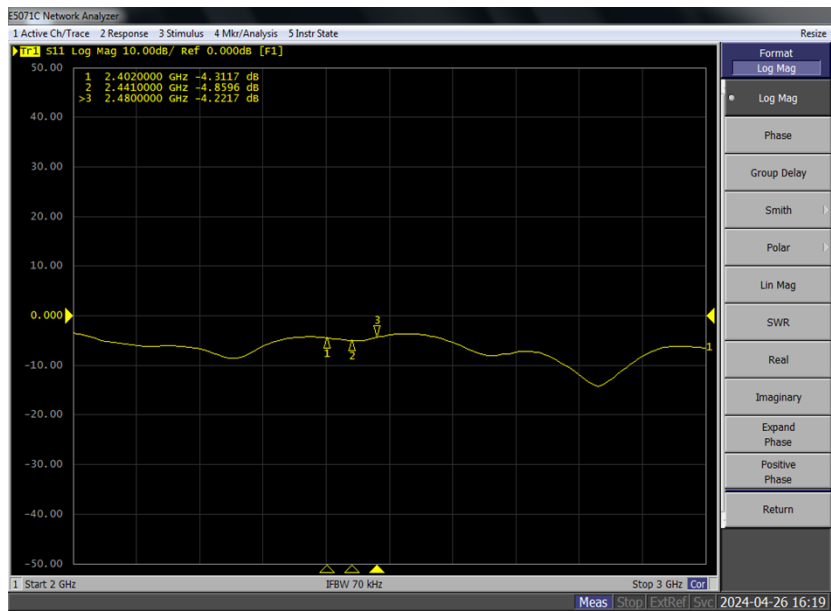


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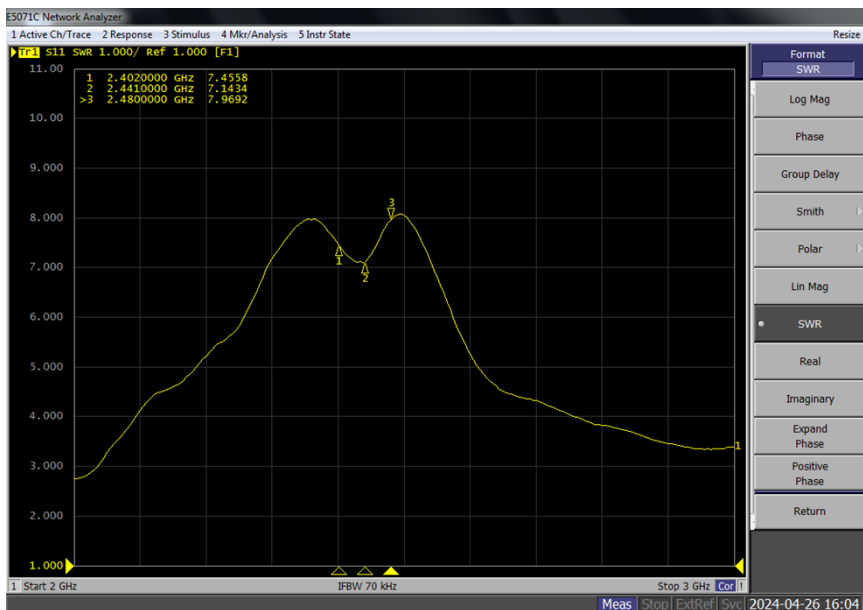
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Free Space 3# dipole

6.2 VSWR



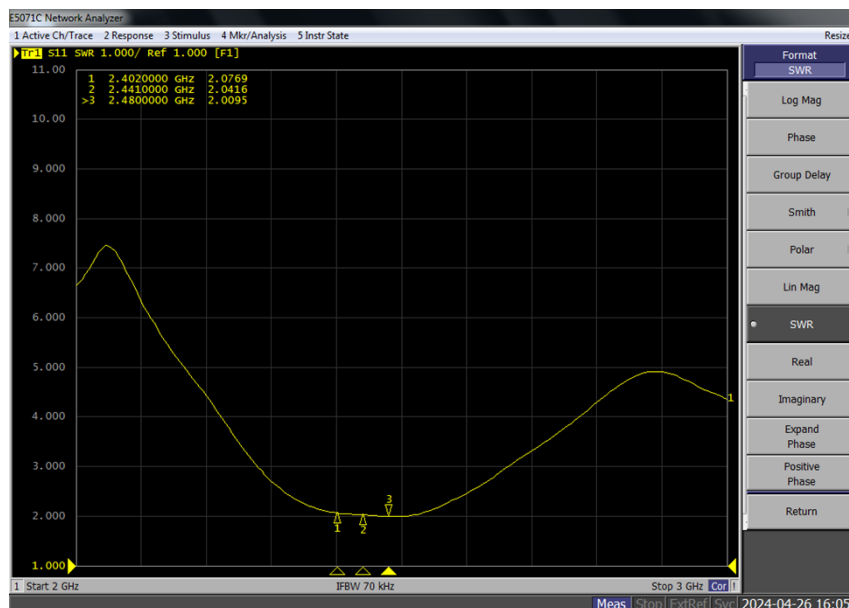
Free Space 1# dipole



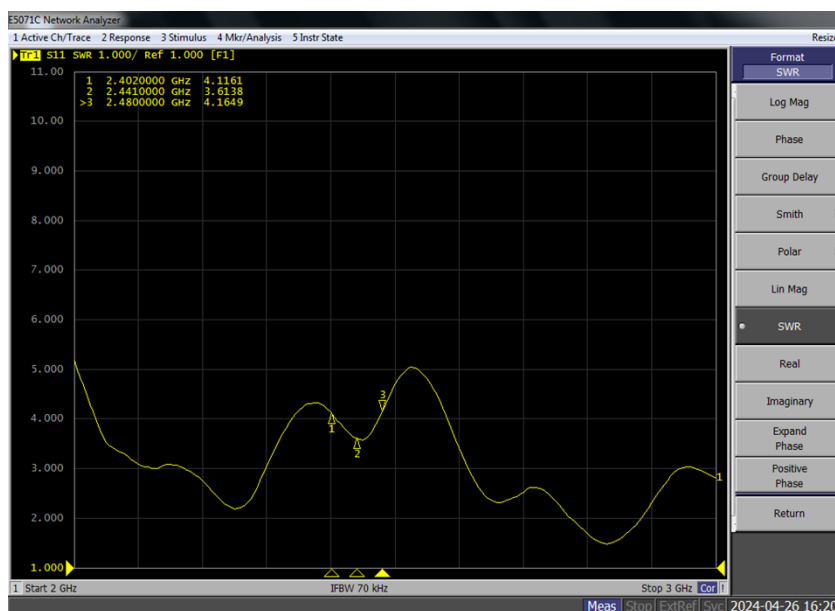
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Free Space 2# dipole



Free Space 3# dipole

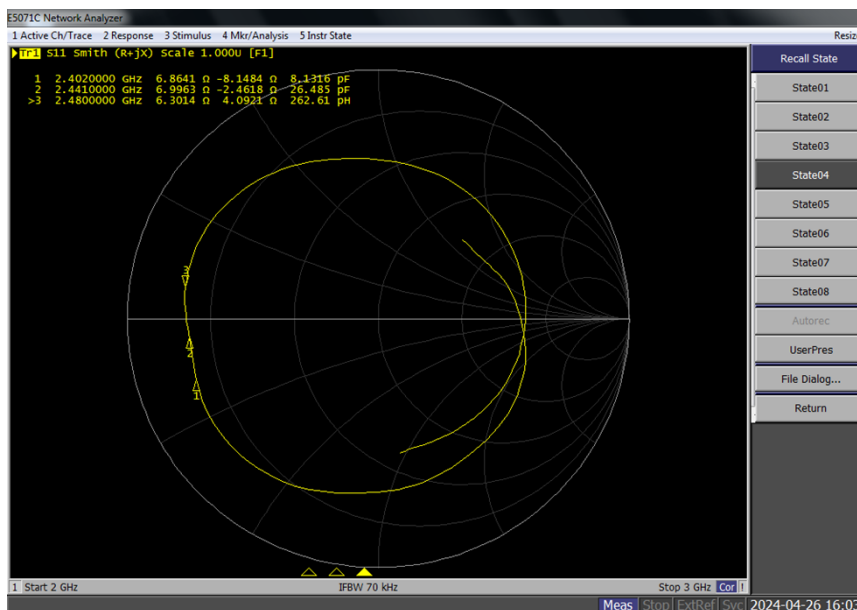


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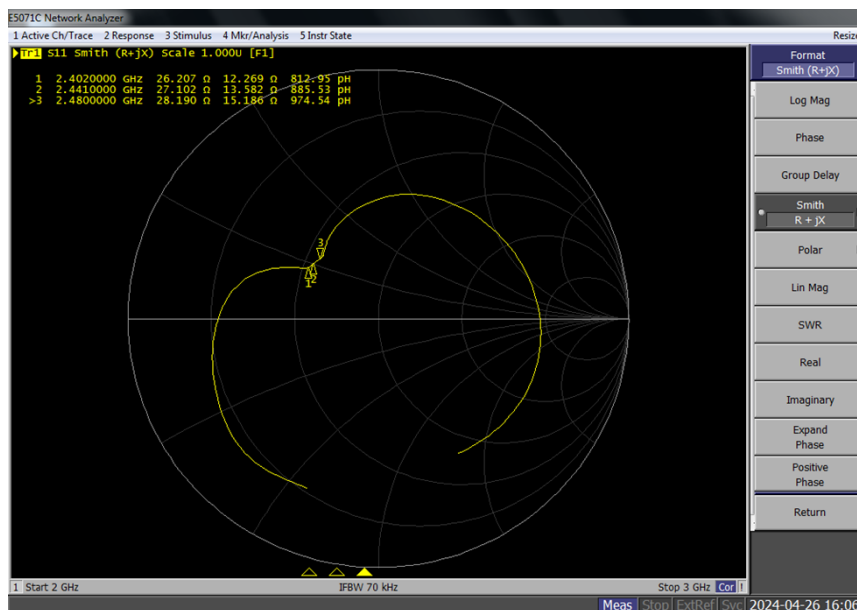
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6.3 Stimulus



Free Space 1# dipole



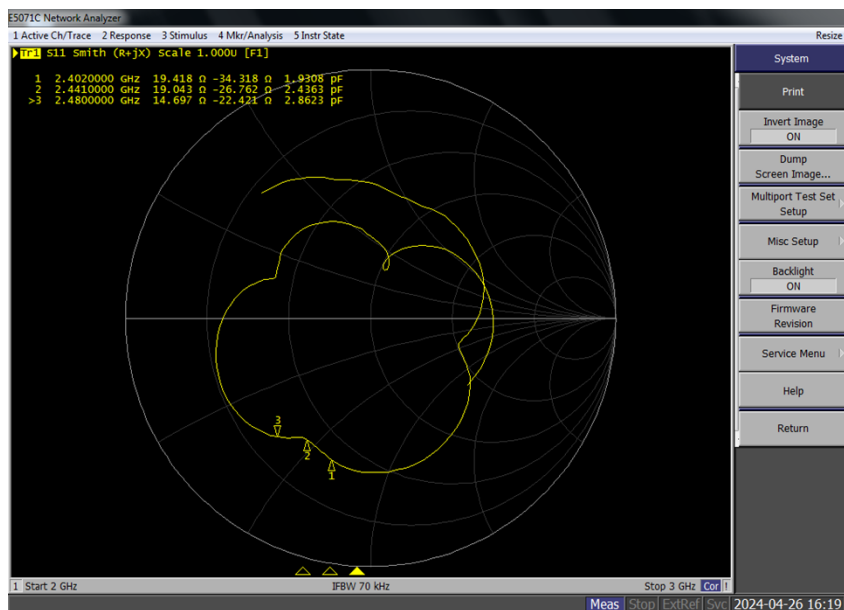
Free Space 2# dipole



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Free Space 3# dipole



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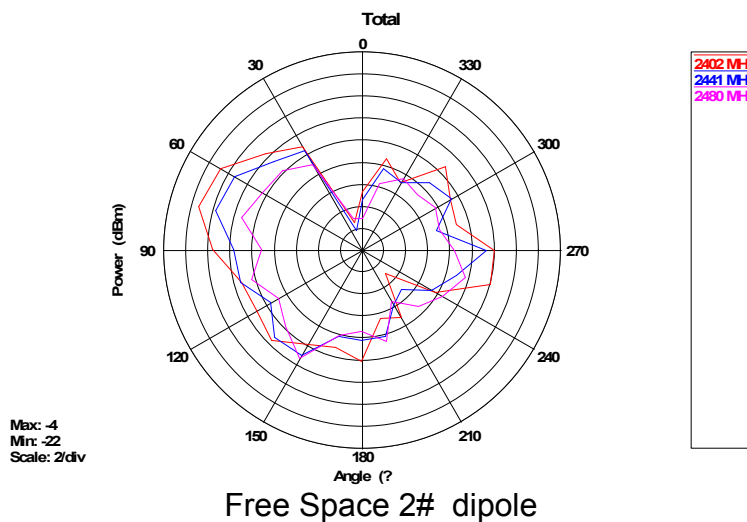
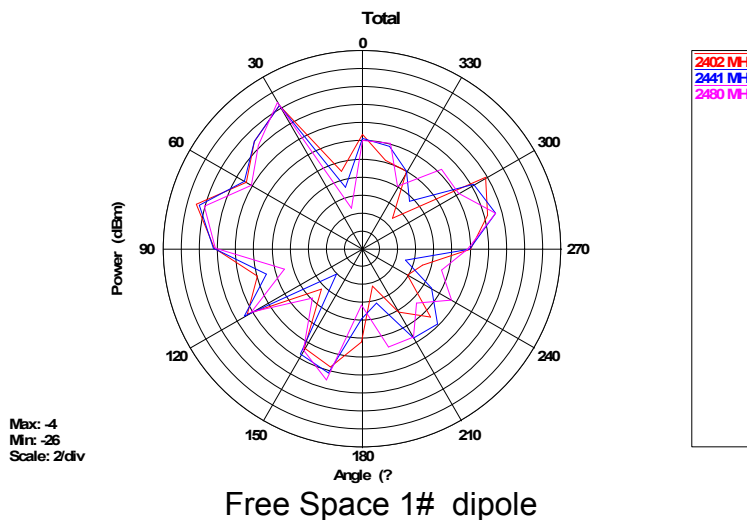
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7 2-D Antenna Pattern(Theta=90°)

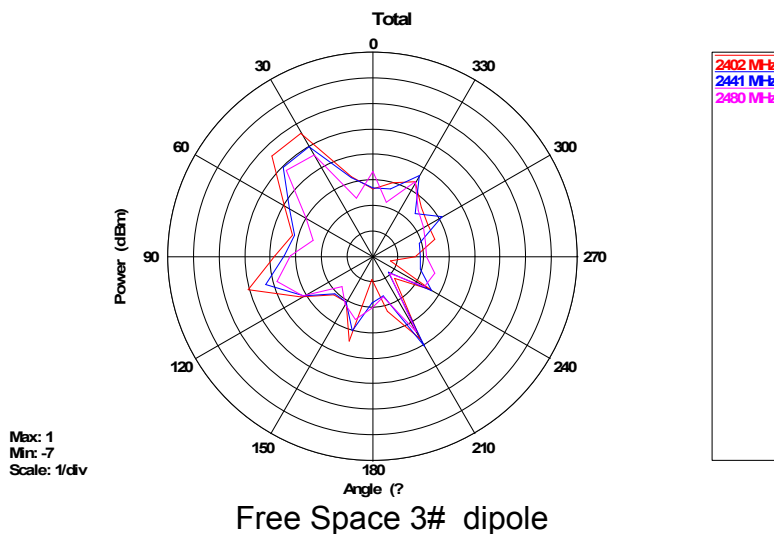


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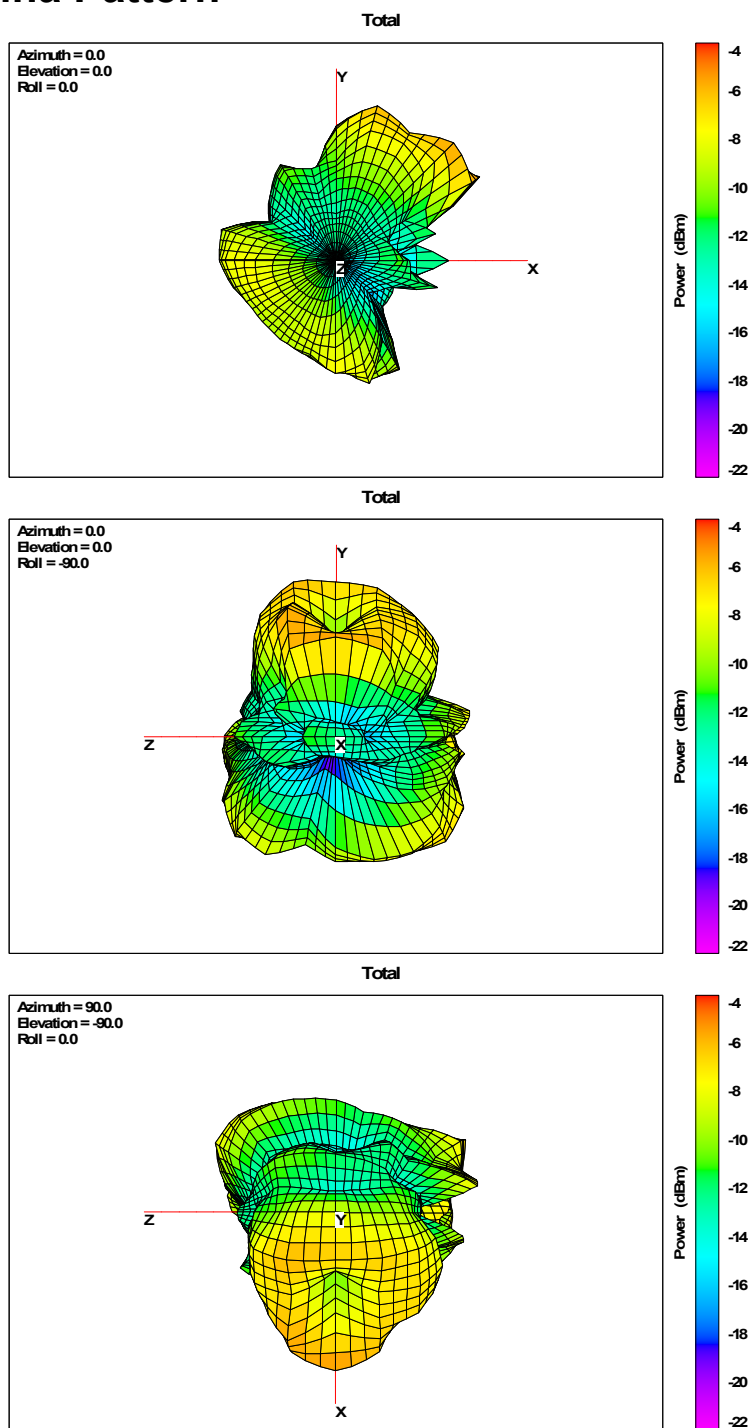
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8 3-D Antenna Pattern



Free Space 1# dipole

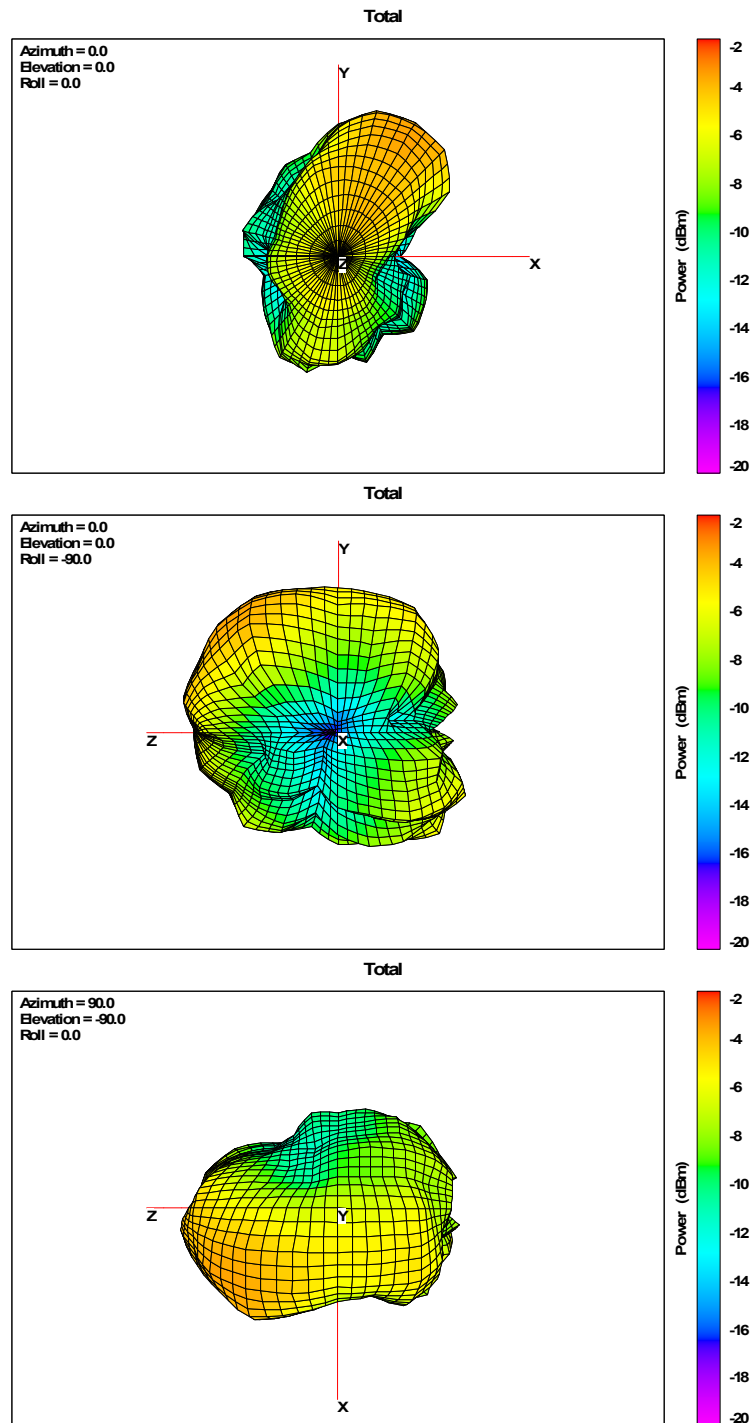


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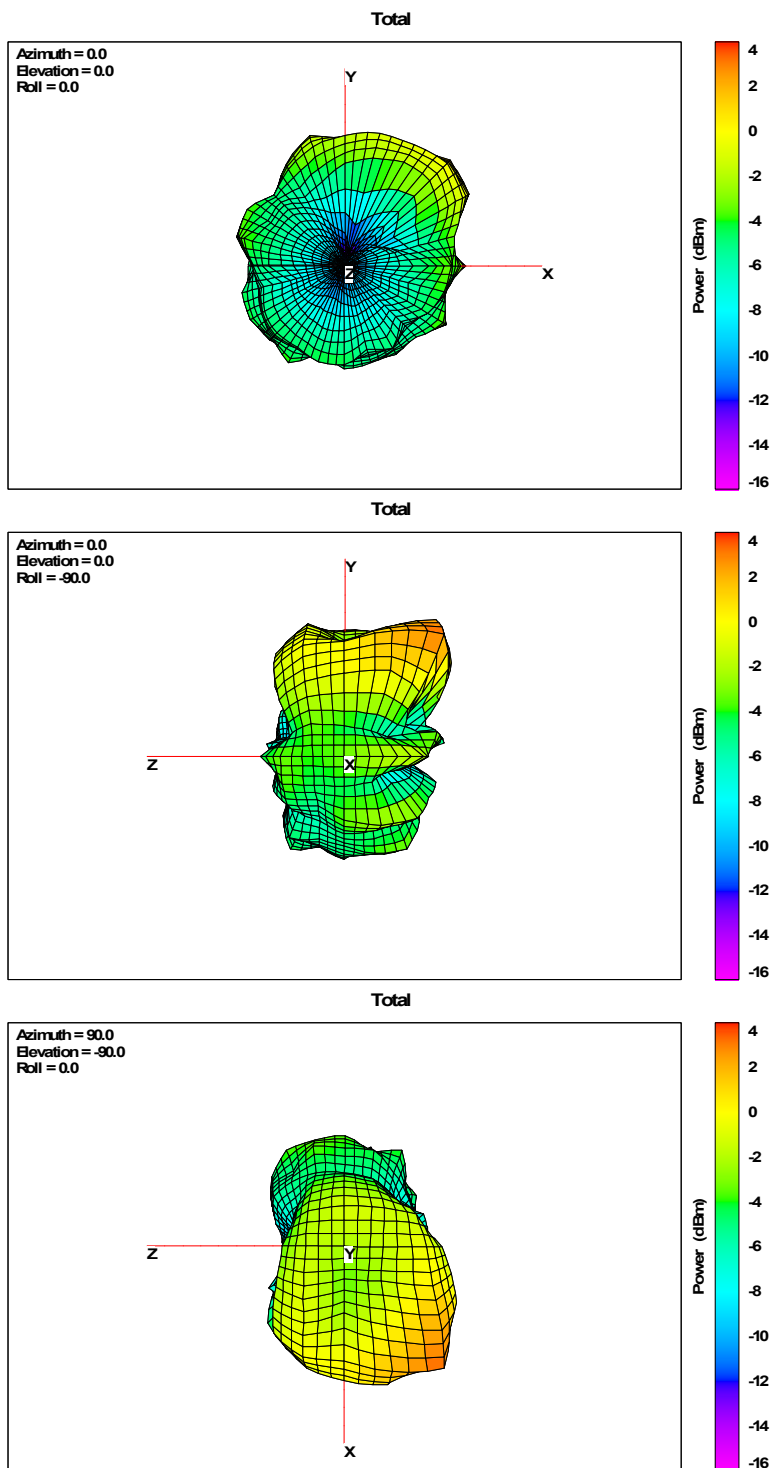
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9 The EUT and Test Configuration

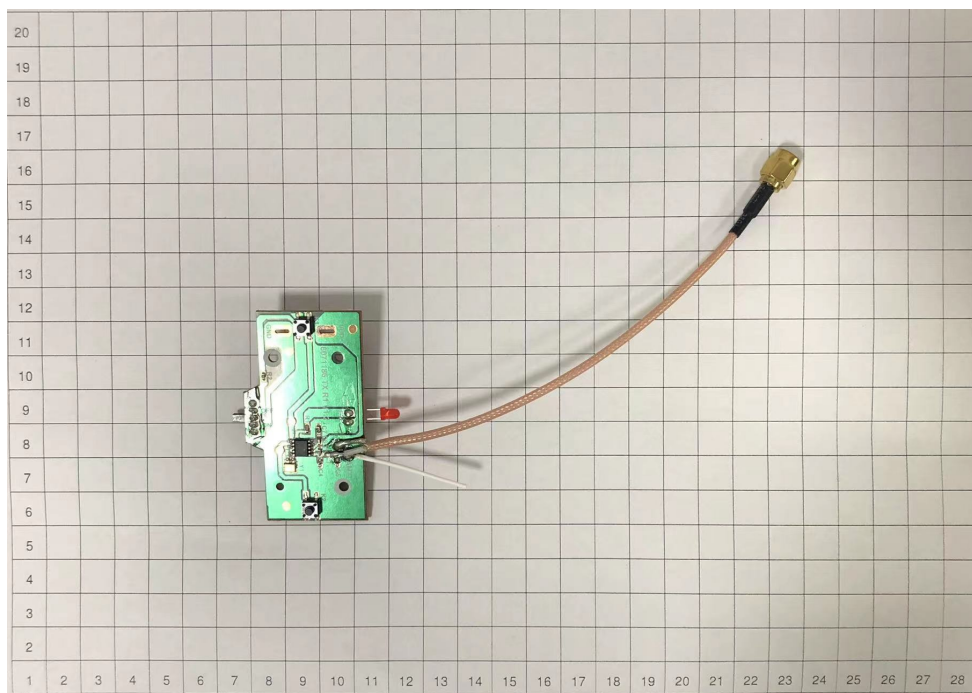


Photo of EUT 1# dipole

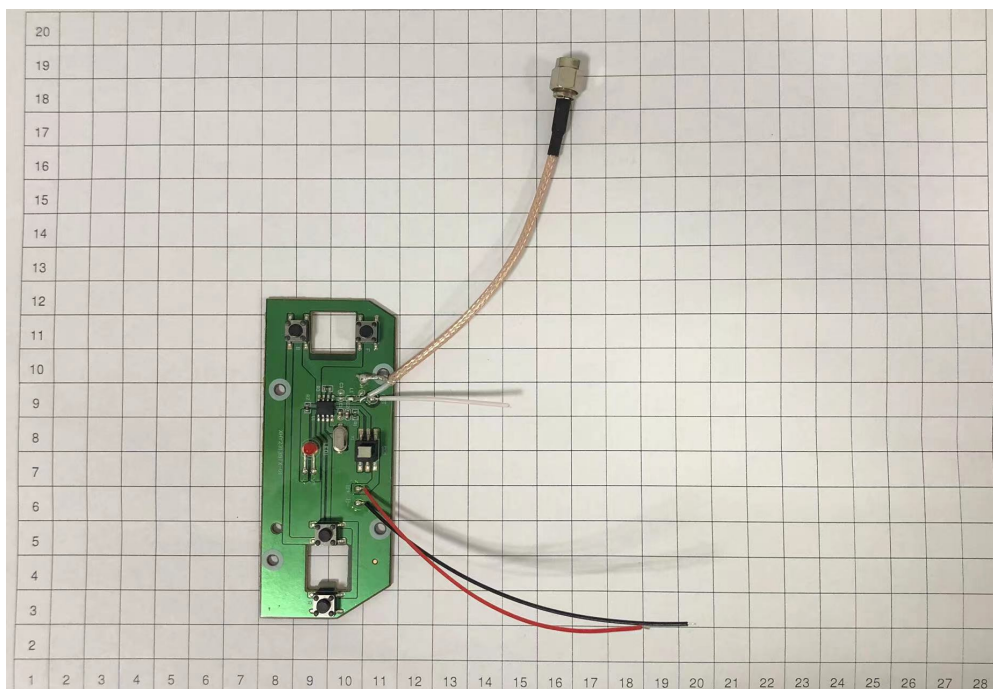


Photo of EUT 2# dipole



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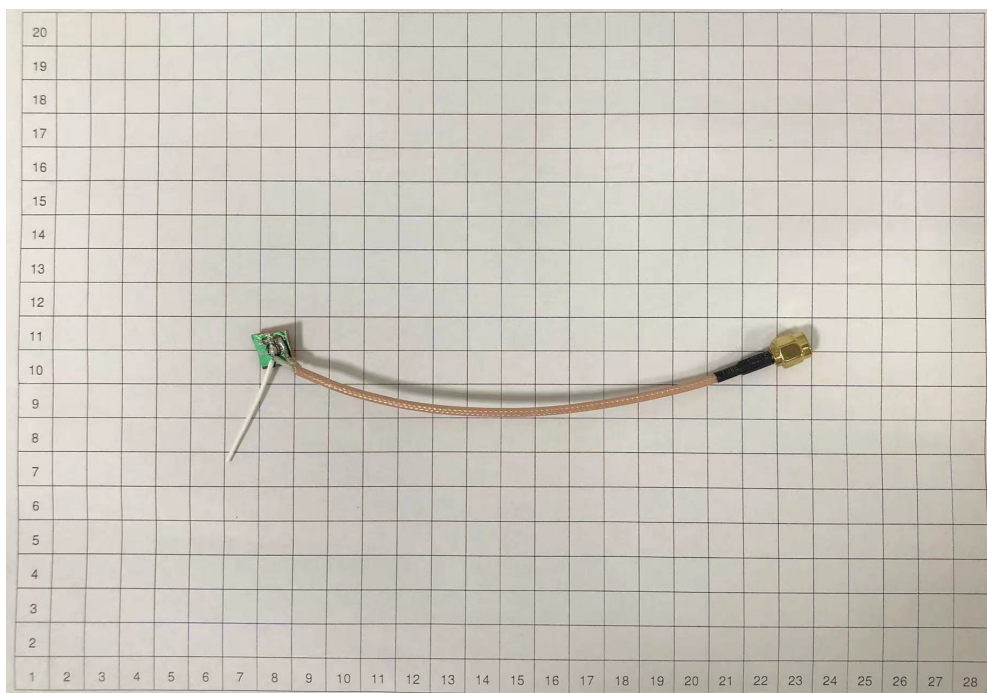
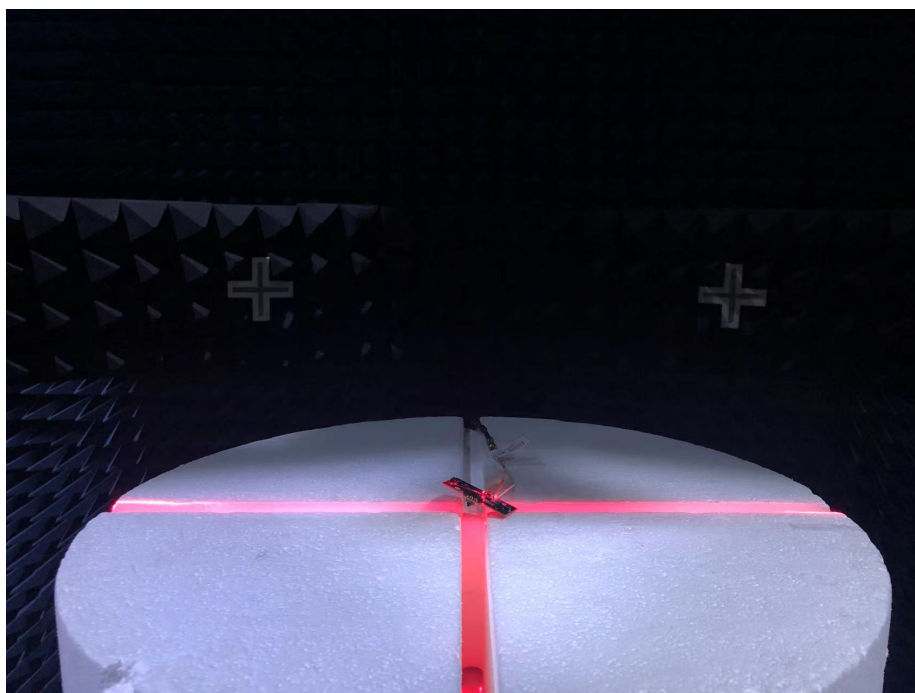
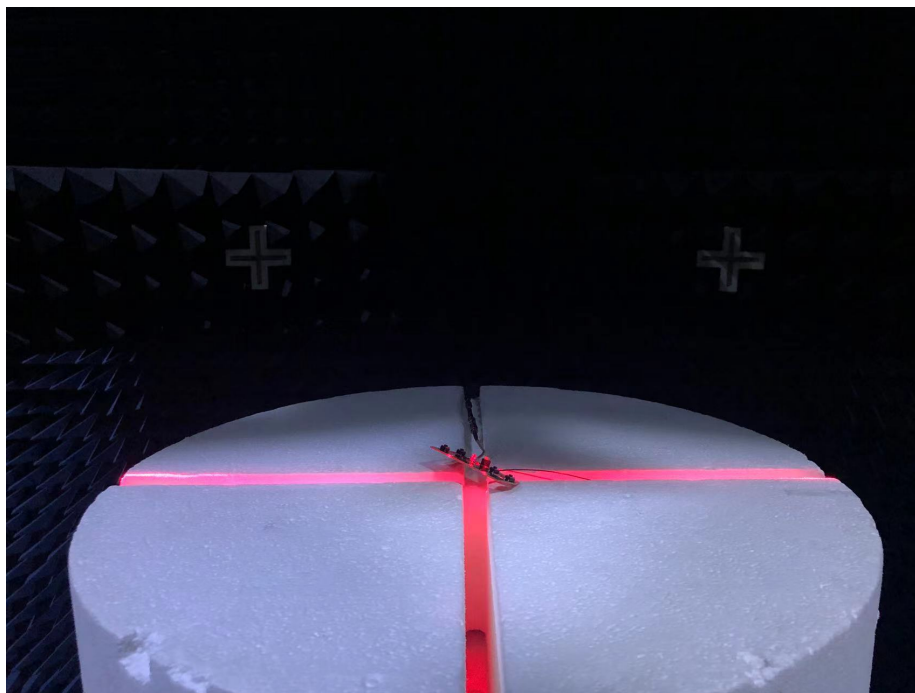


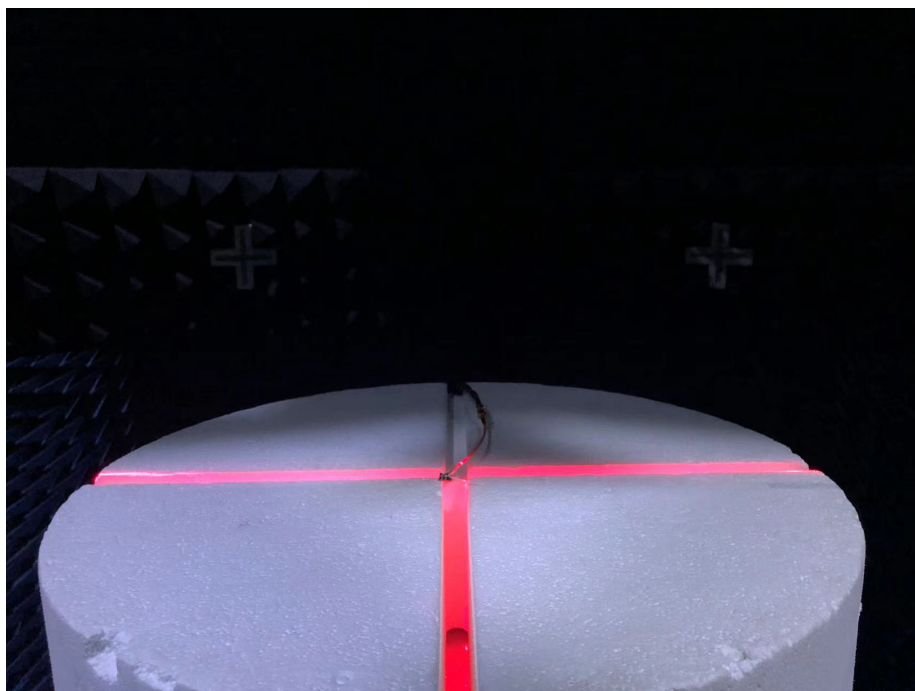
Photo of EUT 3# dipole



Free Space View 1# dipole



Free Space View 2# dipole



Free Space View 3# dipole

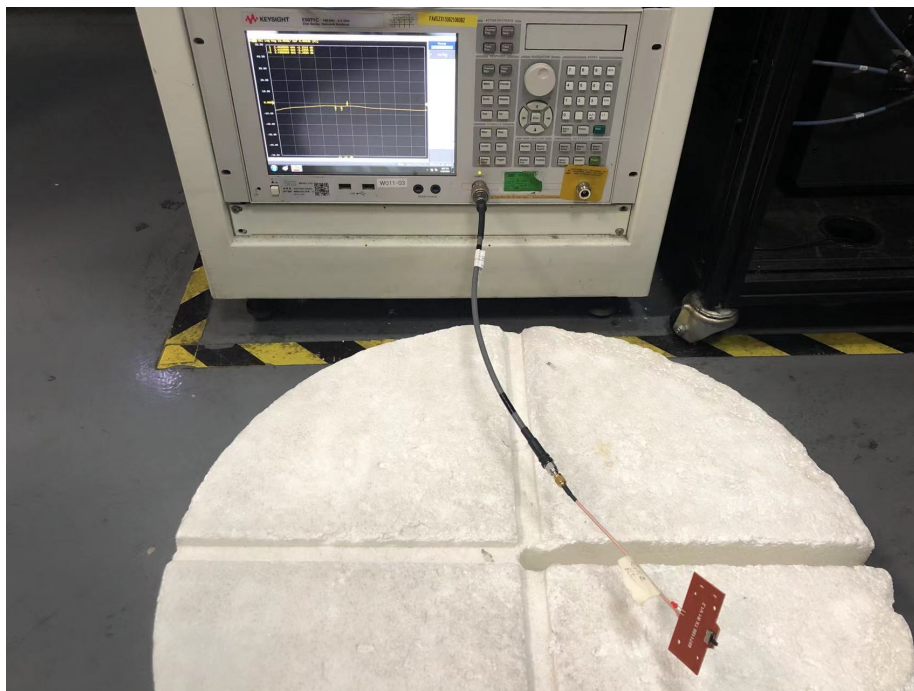


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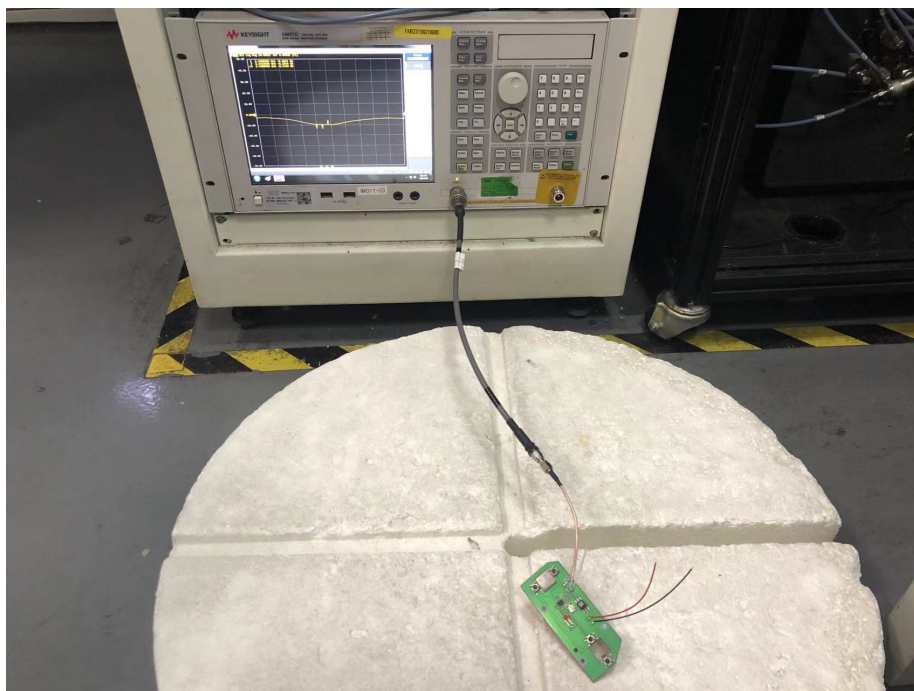
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Free Space Impedance Setup 1# dipole



Free Space Impedance Setup 2# dipole

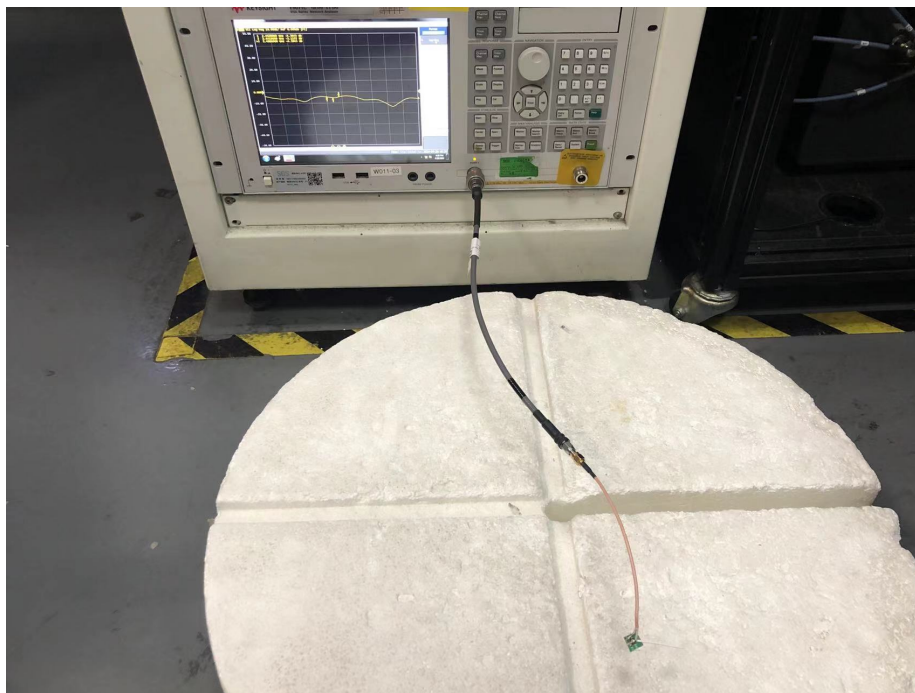


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Free Space Impedance Setup 3# dipole

---END---



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