



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

Report No.: SZOA2404000089MO01
Rev.: 01
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ANTENNA PASSIVE TEST REPORT

Application No. SZOA2404000089MO
Applicant FIH Co.,LTD.
Manufacturer FIT
Product Name External Antenna
Model No. ANEPRA5-CAG03-EH
Standards ANSI/IEEE Std 149-2021
Date Initial Sample(s) Received April 26, 2024
Testing Start Date April 26, 2024
Testing Finish Date April 26, 2024
Report Issue Date July 5, 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

Ervin Li

Approved by: Ervin Li/ Technical Manager



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Shenzhen Branch, Wireless Laboratory

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Revision History

Revision	Issue Date	Description
01	July 5, 2024	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	FIH Co.,LTD
Applicant's Address	No.4, Mingsheng St., Tu-Cheng Dist.,New Taipei City 23679, Taiwan
Contact	Jinling Wang
Tel.	+86-10-67869988-26231
Fax	N/A
E-mail	jinlingwang@fih-foxconn.com

1.3 Details of Manufacturer

Manufacturer's Name	FIT
Manufacturer's Address	No.18,TongJiZhongLu, BeiJing Economic & Technological Area
Contact	Yunqi Chen
Tel.	N/A
Fax	N/A
E-mail	N/A



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1.4 General Description of EUT

Device Description:	External Antenna
Device Manufacturer:	FIT
Device Model:	ANEPRA5-CAG03-EH
Hardware Version:	N/A
Software Version:	N/A
Antenna Dimensions:	230.5 x 22.0 x 6.4 mm
Antenna Type	Dipole

1.5 Test Procedure

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

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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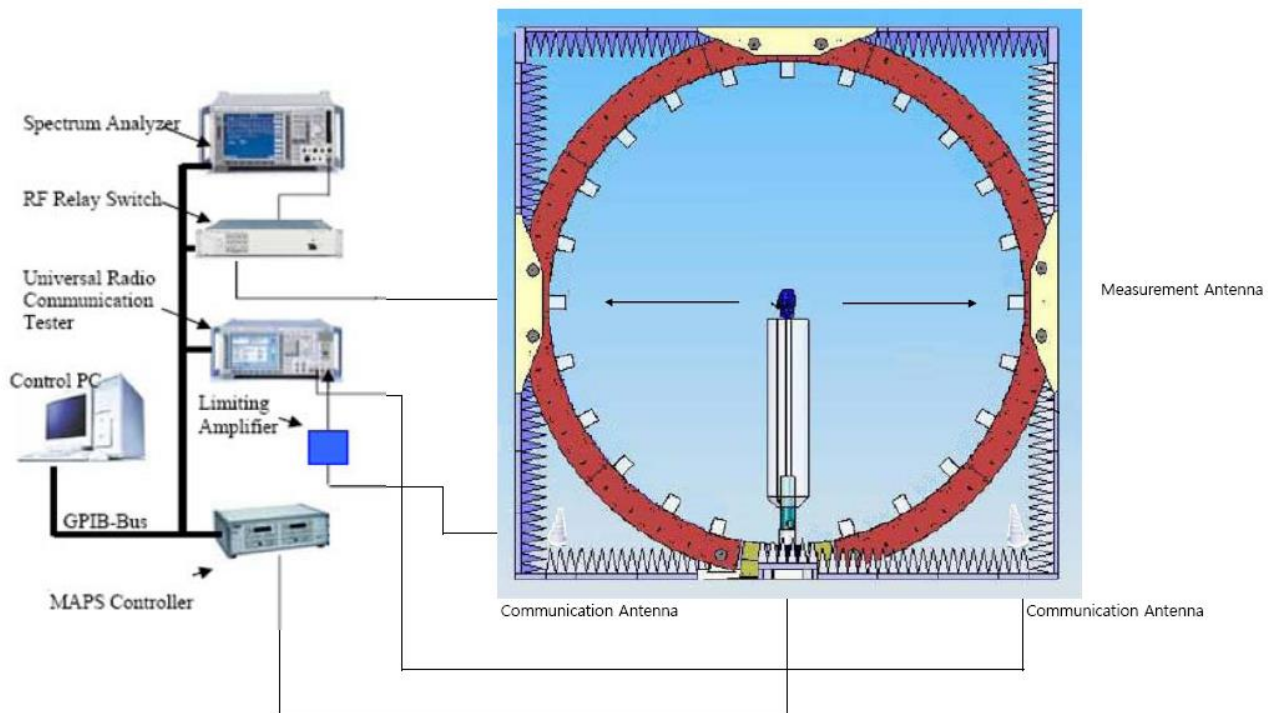
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2 OTA Measurements System Configuration

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 MY46523590	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

ANEPRA5-CAG03-EH (2.4G)			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-2.57	55.31	2.83
2355	-2.92	51.05	2.42
2360	-2.79	52.66	2.60
2365	-2.93	50.89	2.55
2370	-3.18	48.07	2.31
2375	-3.19	47.98	2.34
2380	-3.39	45.79	2.10
2385	-3.15	48.47	2.36
2390	-3.26	47.22	2.10
2395	-3.03	49.80	2.39
2400	-3.14	48.48	2.32
2402	-3.33	46.46	1.99
2405	-3.34	46.37	2.06
2410	-3.14	48.57	2.30
2415	-3.23	47.48	2.32
2420	-3.02	49.84	2.36
2425	-3.13	48.68	2.50
2430	-3.28	47.01	2.09
2435	-3.27	47.09	2.23
2440	-3.40	45.74	2.00
2441	-3.38	45.87	2.01
2445	-3.21	47.74	2.21
2450	-3.21	47.70	2.32



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2455	-3.14	48.51	2.25
2460	-3.27	47.10	2.34
2465	-3.41	45.56	2.05
2470	-3.58	43.81	2.03
2475	-3.69	42.72	1.79
2480	-3.72	42.46	1.73
2482	-3.67	42.93	1.80
2485	-3.67	42.93	1.81
2490	-3.51	44.55	1.90
2495	-3.17	48.17	2.47
2500	-2.94	50.82	2.64
2505	-2.70	53.67	2.79
2510	-2.69	53.86	2.71
2515	-2.90	51.24	2.46
2520	-3.20	47.90	1.96
2525	-3.42	45.45	1.60
2530	-3.58	43.89	1.25
2535	-3.65	43.16	1.28
2540	-3.60	43.62	1.38
2545	-3.48	44.83	1.59
2550	-3.52	44.49	1.61
2555	-3.57	44.00	1.58
2560	-3.71	42.52	1.52
2565	-3.75	42.21	1.52
2570	-3.73	42.33	1.58
2575	-3.65	43.19	1.62
2580	-3.43	45.39	1.87



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ANEPRA5-CAG03-EH (5G)			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5000	-11.01	7.93	-5.01
5005	-11.03	7.89	-5.07
5010	-11.05	7.85	-4.47
5015	-11.11	7.74	-5.27
5020	-10.94	8.06	-5.33
5025	-10.81	8.29	-5.48
5030	-10.91	8.11	-5.66
5035	-10.65	8.61	-5.03
5040	-10.86	8.20	-5.10
5045	-10.97	8.00	-4.28
5050	-11.26	7.48	-4.96
5055	-11.00	7.94	-5.46
5060	-10.91	8.10	-5.14
5065	-10.98	7.98	-4.52
5070	-10.54	8.84	-4.25
5075	-10.51	8.88	-4.25
5080	-10.29	9.36	-4.71
5085	-10.18	9.59	-4.25
5090	-9.84	10.38	-4.02
5095	-9.90	10.23	-4.19
5100	-10.00	9.99	-4.02
5105	-10.32	9.29	-4.42
5110	-10.24	9.45	-4.44
5115	-10.39	9.15	-4.53



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5120	-10.27	9.39	-3.99
5125	-10.42	9.07	-4.31
5130	-10.26	9.42	-4.44
5135	-10.30	9.34	-4.36
5140	-10.38	9.16	-3.94
5145	-10.12	9.74	-3.80
5150	-9.87	10.30	-3.69
5155	-9.65	10.83	-3.59
5160	-9.55	11.08	-3.50
5165	-9.21	11.99	-3.29
5170	-9.14	12.19	-2.85
5175	-9.33	11.66	-2.95
5180	-9.40	11.47	-3.02
5185	-9.51	11.19	-3.90
5190	-9.64	10.85	-3.51
5195	-9.71	10.68	-3.15
5200	-9.61	10.94	-3.21
5205	-9.68	10.76	-3.40
5210	-9.66	10.82	-3.65
5215	-9.82	10.41	-4.33
5220	-9.95	10.12	-4.46
5225	-10.03	9.94	-3.37
5230	-10.21	9.54	-3.77
5235	-9.93	10.16	-3.89
5240	-9.99	10.03	-4.39
5245	-9.59	10.99	-3.48
5250	-9.68	10.76	-3.32
5255	-9.51	11.18	-3.32



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5260	-9.48	11.27	-3.49
5265	-9.40	11.49	-3.62
5270	-9.28	11.81	-4.18
5275	-9.30	11.75	-3.54
5280	-9.29	11.77	-2.85
5285	-9.56	11.07	-3.11
5290	-9.45	11.34	-3.63
5295	-9.50	11.22	-3.52
5300	-9.56	11.07	-3.08
5305	-9.53	11.15	-3.04
5310	-9.45	11.35	-3.10
5315	-9.68	10.76	-3.65
5320	-9.34	11.65	-3.30
5325	-9.60	10.97	-4.31
5330	-9.19	12.05	-2.81
5335	-9.54	11.13	-2.68
5340	-9.34	11.63	-2.92
5345	-9.30	11.74	-2.73
5350	-9.36	11.59	-2.79
5355	-8.92	12.81	-2.12
5360	-8.78	13.25	-2.22
5365	-8.53	14.04	-2.09
5370	-8.74	13.37	-1.91
5375	-8.71	13.46	-1.98
5380	-8.87	12.97	-2.58
5385	-8.94	12.76	-1.82
5390	-8.98	12.65	-1.84
5395	-8.90	12.88	-2.44



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5400	-9.00	12.59	-2.13
5405	-8.96	12.71	-1.81
5410	-9.34	11.64	-2.22
5415	-9.31	11.71	-2.47
5420	-9.33	11.67	-2.73
5425	-9.30	11.75	-2.36
5430	-9.20	12.02	-2.36
5435	-9.08	12.35	-2.77
5440	-8.94	12.77	-1.99
5445	-9.06	12.41	-2.51
5450	-9.16	12.15	-2.62
5455	-9.29	11.78	-2.59
5460	-9.44	11.38	-2.40
5465	-9.51	11.20	-2.55
5470	-9.45	11.34	-2.53
5475	-9.25	11.89	-2.77
5480	-9.06	12.40	-2.62
5485	-9.04	12.47	-2.74
5490	-8.95	12.73	-2.68
5495	-9.18	12.08	-2.92
5500	-9.18	12.07	-2.88
5505	-9.24	11.91	-3.16
5510	-8.90	12.88	-2.56
5515	-8.76	13.31	-2.25
5520	-8.67	13.57	-2.17
5525	-8.98	12.66	-2.52
5530	-9.06	12.41	-2.52
5535	-9.39	11.50	-2.67



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5540	-9.44	11.37	-2.64
5545	-9.28	11.81	-2.41
5550	-8.90	12.87	-1.92
5555	-8.66	13.60	-1.72
5560	-8.59	13.85	-1.72
5565	-8.54	14.01	-1.77
5570	-8.75	13.32	-2.22
5575	-8.87	12.98	-2.38
5580	-9.07	12.39	-2.71
5585	-8.96	12.71	-2.70
5590	-8.98	12.65	-2.73
5595	-8.86	13.00	-2.49
5600	-8.84	13.06	-2.18
5605	-8.95	12.74	-2.21
5610	-9.29	11.78	-2.48
5615	-9.49	11.25	-2.52
5620	-9.72	10.68	-2.83
5625	-9.66	10.82	-2.85
5630	-9.56	11.06	-3.00
5635	-9.28	11.80	-3.00
5640	-9.14	12.18	-3.00
5645	-9.12	12.24	-2.93
5650	-9.20	12.01	-2.90
5655	-9.39	11.51	-2.79
5660	-9.39	11.52	-2.60
5665	-9.49	11.24	-2.73
5670	-9.41	11.45	-2.53
5675	-9.34	11.65	-2.67



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5680	-9.34	11.64	-2.73
5685	-9.48	11.26	-3.16
5690	-9.57	11.05	-3.41
5695	-9.72	10.68	-3.58
5700	-9.85	10.35	-3.52
5705	-9.90	10.24	-3.64
5710	-9.69	10.75	-3.17
5715	-9.49	11.25	-2.97
5720	-9.29	11.77	-2.89
5725	-9.23	11.95	-2.60
5730	-9.27	11.82	-2.78
5735	-9.45	11.35	-2.89
5740	-9.65	10.85	-3.13
5745	-9.79	10.50	-3.34
5750	-9.54	11.11	-3.04
5755	-9.28	11.79	-2.69
5760	-9.17	12.12	-2.76
5765	-9.15	12.15	-2.92
5770	-9.27	11.82	-3.21
5775	-9.53	11.15	-3.78
5780	-9.75	10.59	-3.85
5785	-9.69	10.75	-3.84
5790	-9.35	11.62	-3.32
5795	-9.13	12.21	-3.02
5800	-8.97	12.67	-2.73
5805	-9.07	12.39	-2.77
5810	-9.01	12.57	-2.64
5815	-9.05	12.44	-2.58



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5820	-8.90	12.88	-2.43
5825	-8.80	13.18	-2.37
5830	-8.70	13.49	-2.32
5835	-8.71	13.46	-2.32
5840	-8.75	13.34	-2.32
5845	-8.79	13.20	-2.28
5850	-8.91	12.87	-2.44
5855	-8.97	12.68	-2.47
5860	-9.14	12.20	-2.69
5865	-9.25	11.88	-2.96
5870	-9.18	12.08	-2.96
5875	-9.05	12.45	-3.00
5880	-8.63	13.72	-2.60
5885	-8.50	14.12	-2.72
5890	-8.47	14.22	-2.91
5895	-8.30	14.81	-2.87
5900	-8.48	14.21	-2.96
5905	-8.39	14.47	-3.14
5910	-8.60	13.80	-3.24
5915	-8.44	14.32	-3.08
5920	-8.66	13.62	-3.24
5925	-8.81	13.14	-3.30
5930	-8.91	12.84	-3.51
5935	-9.02	12.54	-3.52
5940	-8.73	13.39	-3.31
5945	-8.72	13.42	-3.37
5950	-8.35	14.63	-2.82
5955	-8.22	15.06	-2.51



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5960	-8.17	15.24	-2.59
5965	-8.20	15.15	-2.61
5970	-8.31	14.76	-2.63
5975	-8.17	15.23	-2.48
5980	-8.18	15.21	-2.45
5985	-8.29	14.83	-2.54
5990	-8.34	14.66	-2.58
5995	-8.65	13.65	-2.75
6000	-8.44	14.32	-2.64



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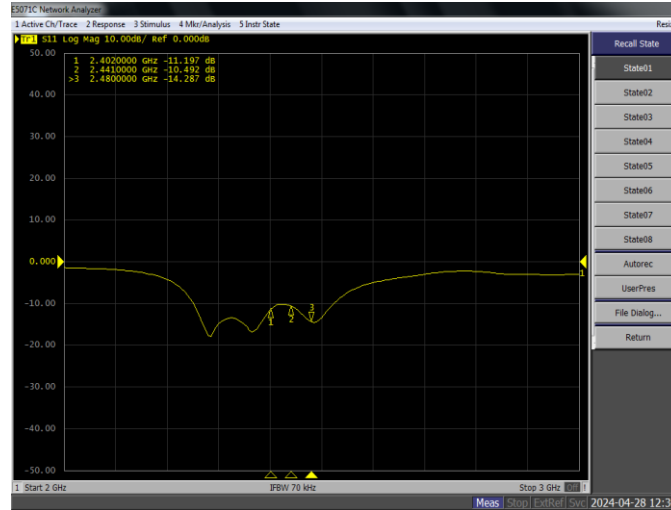
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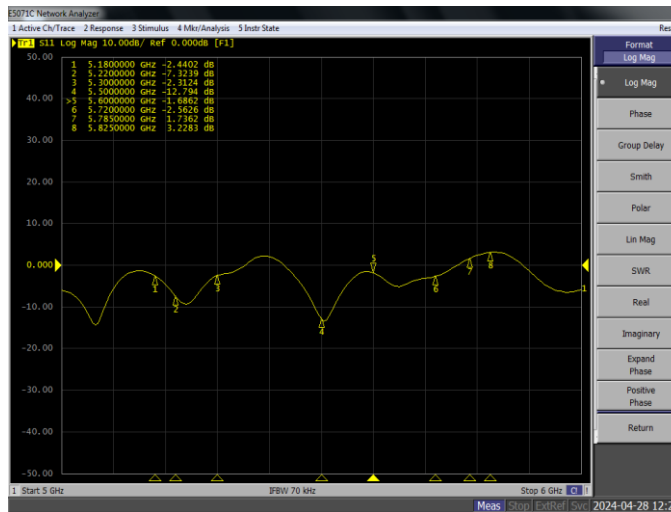
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6 Pattern Plots

6.1 Return Loss



Free Space - ANEPRA5-CAG03-EH (2.4G)



Free Space - ANEPRA5-CAG03-EH (5G)



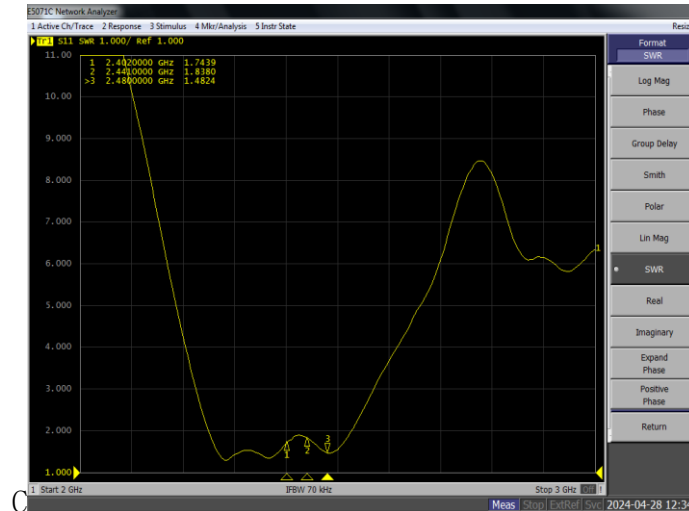
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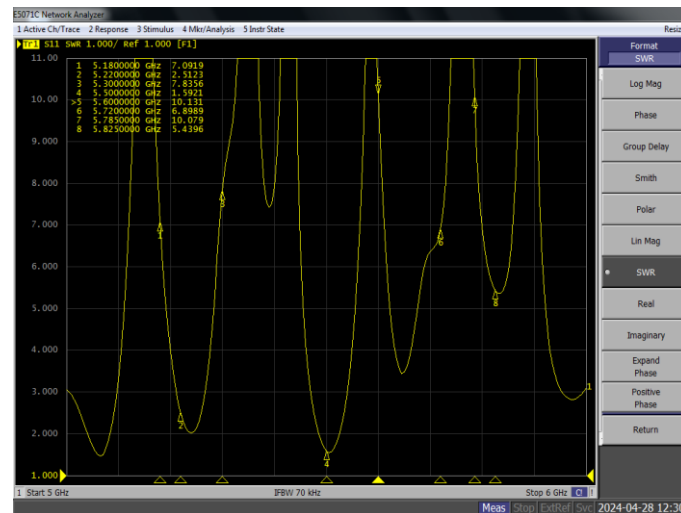
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6.2 VSWR



Free Space - ANEPRA5-CAG03-EH (2.4G)



Free Space - ANEPRA5-CAG03-EH (5G)



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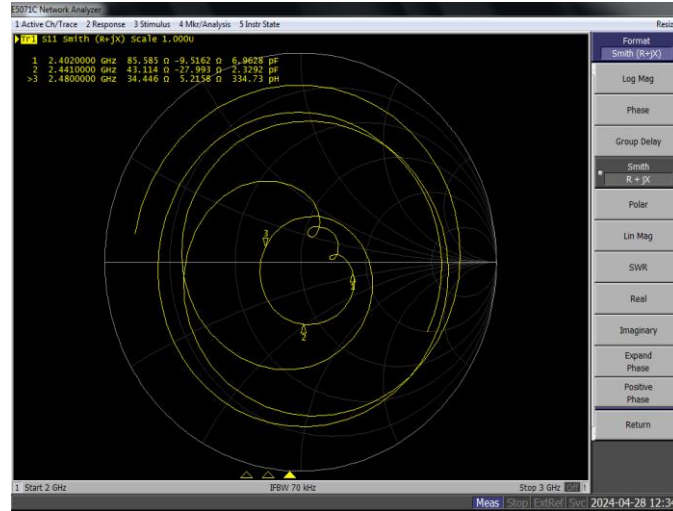
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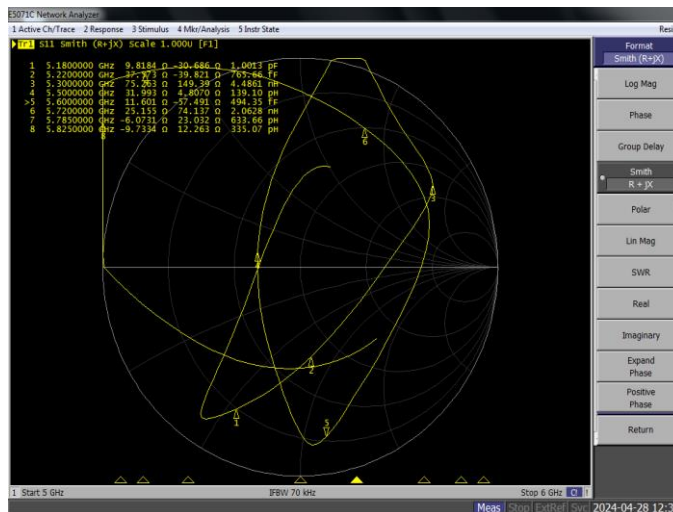
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6.3 Stimulus



Free Space - ANEPRA5-CAG03-EH (2.4G)



Free Space - ANEPRA5-CAG03-EH (5G)



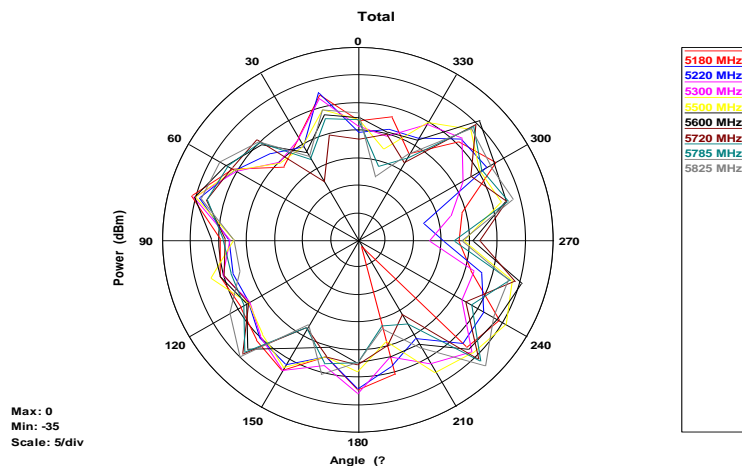
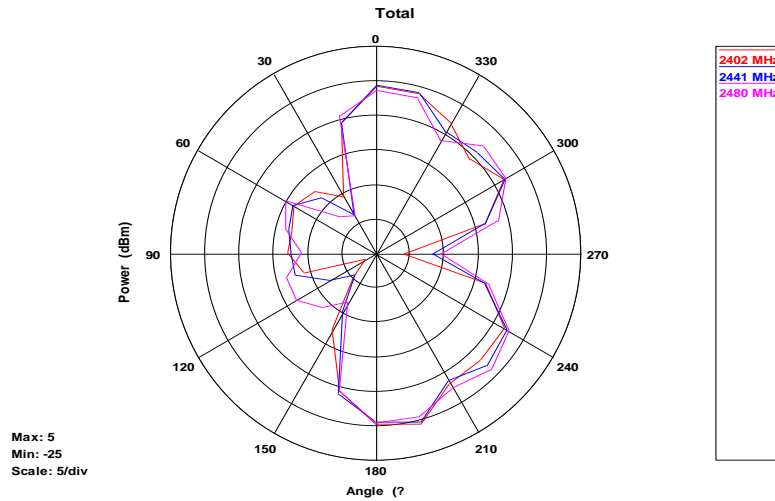
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7 2-D Antenna Pattern(Theta=90°)



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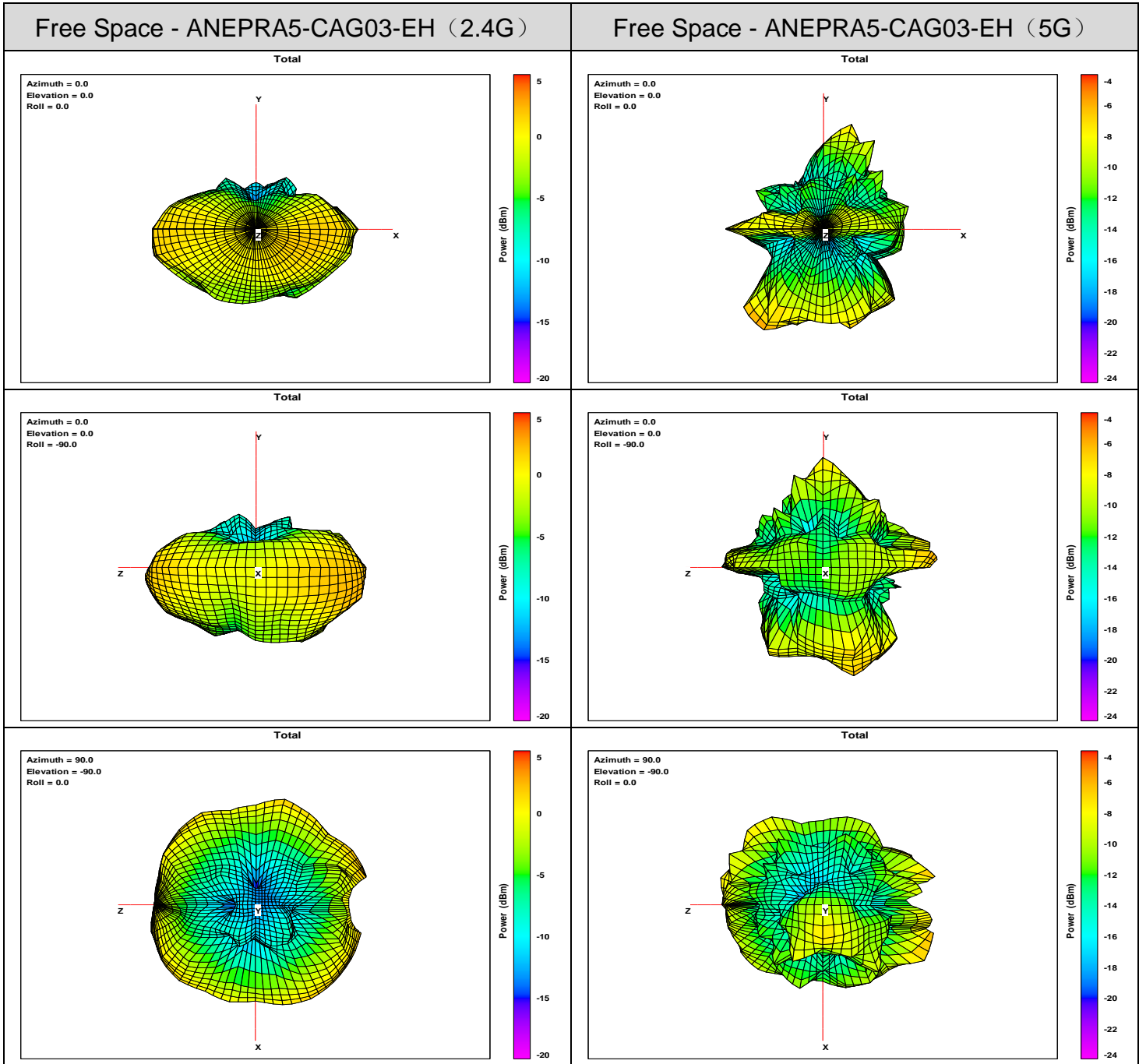
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8 3-D Antenna Pattern



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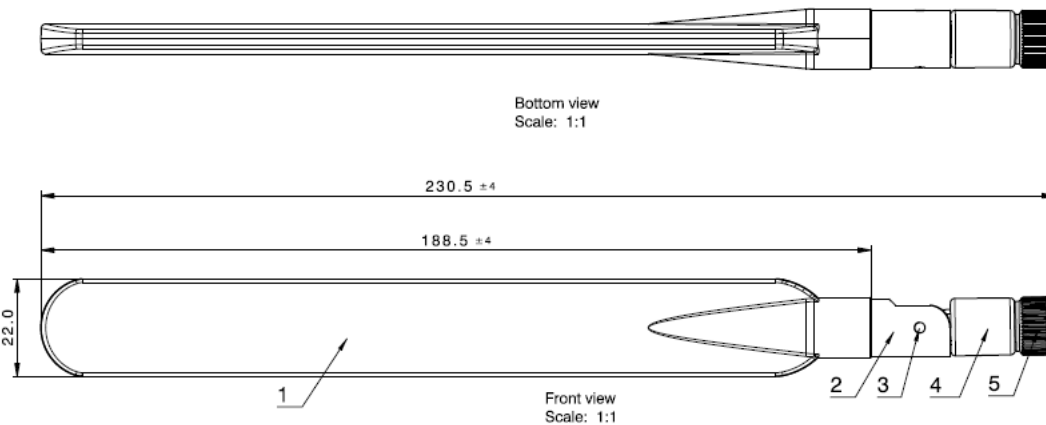
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9 The EUT and Test Configuration



Photo of EUT - ANEPRA5-CAG03-EH



Antenna Dimensions



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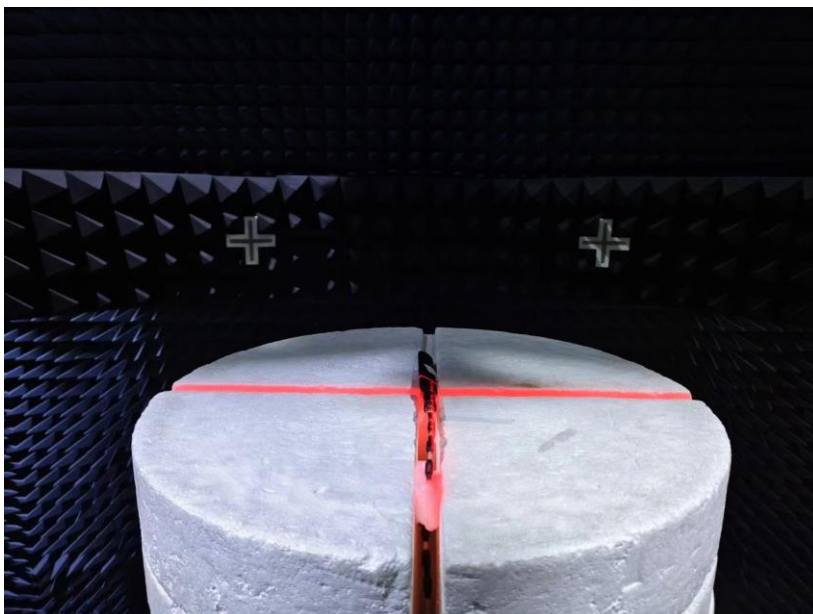


Photo of EUT - ANEPRA5-CAG03-EH



Free Space Impedance Setup - ANEPRA5-CAG03-EH

---END---



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