

ANTENNA PASSIVE TEST REPORT

Application No. ZEWM2303000311OA
Applicant SKULLCANDY, INC.
Manufacturer SKULLCANDY, INC.
Product Name GROM WIRELESS
Model No. S6KBW
Standards ANSI/IEEE Std 149-2008
Date Initial Sample(s) Received 2023.03.22
Testing Start Date 2023.03.23
Testing Finish Date 2023.03.23
Report Issue Date 2023.06.12

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

YUANYU LUO

Prepared by

Max. Huang

Reviewed By

Irvin Li

Approved by



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

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Revision Version

Report No.	Version	Date	Memo
ZEWM2303000311OA01	00	2023.06.12	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.....	18



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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	SKULLCANDY, INC.
Applicant's Address	6301 N Landmark Dr Park City UT 84098, Utah United States of America
Contact	James Nance
Tel.	1(435) 729-2698
Fax	N/A
E-mail	james.nance@skullcandy.com

1.3 Details of Manufacturer

Manufacturer's Name	SKULLCANDY, INC.
Manufacturer's Address	6301 N Landmark Dr Park City UT 84098, Utah United States of America
Contact	James Nance
Tel.	1(435) 729-2698
Fax	N/A
E-mail	james.nance@skullcandy.com



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1.4 General Description of EUT

Device Description:	GROM WIRELESS
Device Manufacturer:	SKULLCANDY, INC.
Device Model:	S6KBW
Hardware Version:	N/A
Software Version:	N/A

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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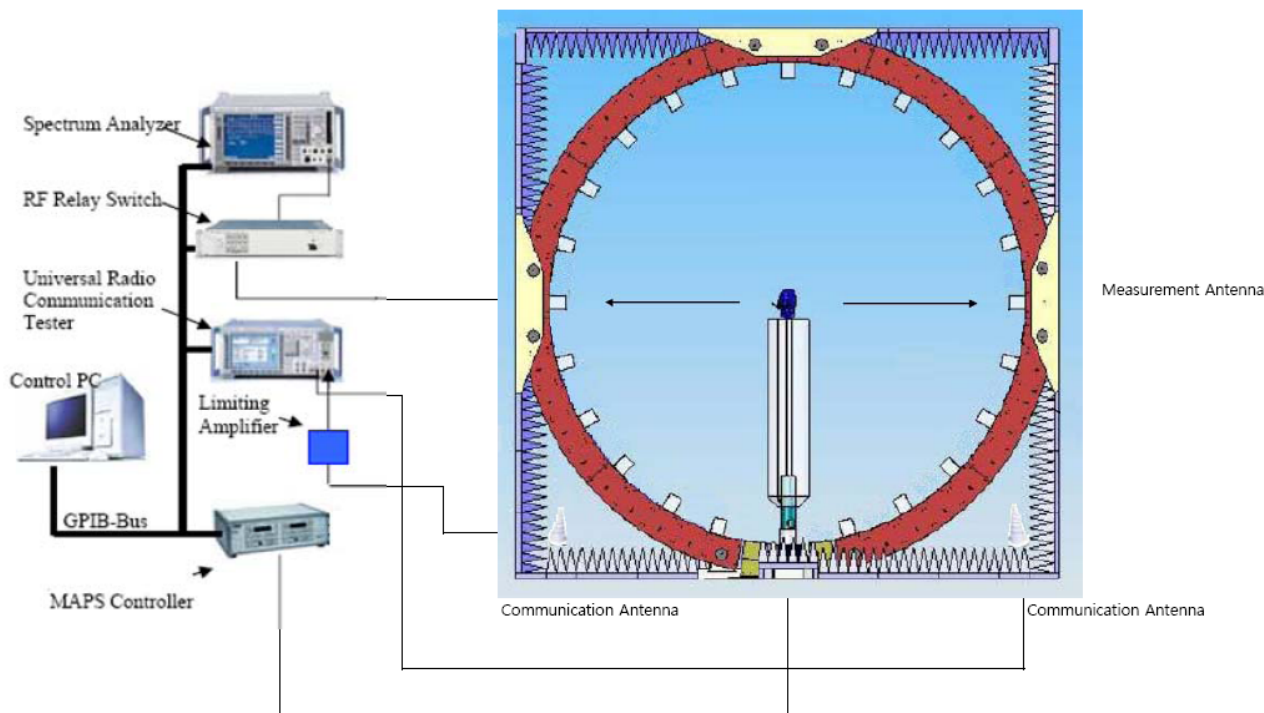
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2 OTA Measurements System Configuration

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
SAM V4.5BS Head Phantom	Head Phantom S/N 3609	SPEAG	NCR	NCR

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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 #1			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-3.23	47.53	1.21
2355	-3.14	48.58	1.28
2360	-2.99	50.25	1.50
2365	-3.04	49.66	1.37
2370	-3.08	49.22	1.31
2375	-3.18	48.13	1.21
2380	-3.09	49.06	1.27
2385	-3.11	48.83	1.32
2390	-3.01	50.03	1.44
2395	-2.97	50.47	1.42
2400	-3.04	49.61	1.34
2402	-2.99	50.19	1.40
2405	-3.02	49.90	1.30
2410	-3.03	49.75	1.31
2415	-2.97	50.46	1.37
2420	-2.98	50.31	1.43
2425	-2.94	50.76	1.42
2430	-3.02	49.84	1.39
2435	-2.99	50.18	1.42
2440	-2.93	50.96	1.51
2441	-2.92	51.03	1.51
2445	-2.93	50.92	1.47
2450	-2.95	50.72	1.44
2455	-3.02	49.90	1.33
2460	-3.05	49.53	1.40

Beside Head #1			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-5.07	31.10	2.48
2355	-4.99	31.68	2.53
2360	-4.80	33.08	2.72
2365	-4.85	32.71	2.70
2370	-4.92	32.25	2.58
2375	-5.05	31.26	2.38
2380	-5.02	31.49	2.31
2385	-5.06	31.18	2.21
2390	-5.00	31.62	2.21
2395	-4.92	32.22	2.24
2400	-4.99	31.71	2.16
2402	-4.93	32.12	2.18
2405	-4.92	32.22	2.22
2410	-4.92	32.21	2.23
2415	-4.83	32.89	2.20
2420	-4.84	32.82	2.14
2425	-4.77	33.33	2.03
2430	-4.83	32.87	1.95
2435	-4.79	33.22	1.85
2440	-4.71	33.84	1.97
2441	-4.70	33.90	2.00
2445	-4.68	34.04	1.85
2450	-4.67	34.15	1.84
2455	-4.68	34.00	1.74
2460	-4.69	33.98	1.61



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2465	-3.07	49.32	1.37
2470	-3.22	47.61	1.31
2475	-3.20	47.90	1.30
2480	-3.30	46.77	1.15
2482	-3.27	47.06	1.24
2485	-3.21	47.79	1.23
2490	-3.26	47.20	1.15
2495	-3.09	49.12	1.37
2500	-3.06	49.38	1.37
2505	-3.00	50.15	1.47
2510	-2.97	50.41	1.41
2515	-3.15	48.44	1.21
2520	-3.20	47.83	1.05
2525	-3.43	45.42	0.85
2530	-3.44	45.33	0.83
2535	-3.53	44.34	0.74
2540	-3.52	44.44	0.77
2545	-3.46	45.04	0.78
2550	-3.54	44.26	0.73
2555	-3.51	44.59	0.70
2560	-3.63	43.31	0.62
2565	-3.60	43.63	0.61
2570	-3.73	42.41	0.41
2575	-3.74	42.26	0.45
2580	-3.73	42.37	0.24

2465	-4.69	33.98	1.54
2470	-4.82	32.96	1.17
2475	-4.83	32.92	1.18
2480	-4.90	32.35	0.84
2482	-4.89	32.45	0.94
2485	-4.84	32.80	0.95
2490	-4.84	32.79	0.92
2495	-4.70	33.91	1.27
2500	-4.65	34.29	1.47
2505	-4.60	34.68	1.66
2510	-4.58	34.80	1.71
2515	-4.73	33.62	1.55
2520	-4.80	33.08	1.33
2525	-4.99	31.67	1.09
2530	-5.01	31.55	1.13
2535	-5.09	30.96	1.13
2540	-5.13	30.68	1.17
2545	-5.06	31.19	1.28
2550	-5.14	30.65	1.30
2555	-5.08	31.06	1.36
2560	-5.18	30.34	1.34
2565	-5.15	30.55	1.36
2570	-5.25	29.82	1.28
2575	-5.30	29.54	1.24
2580	-5.30	29.54	1.22



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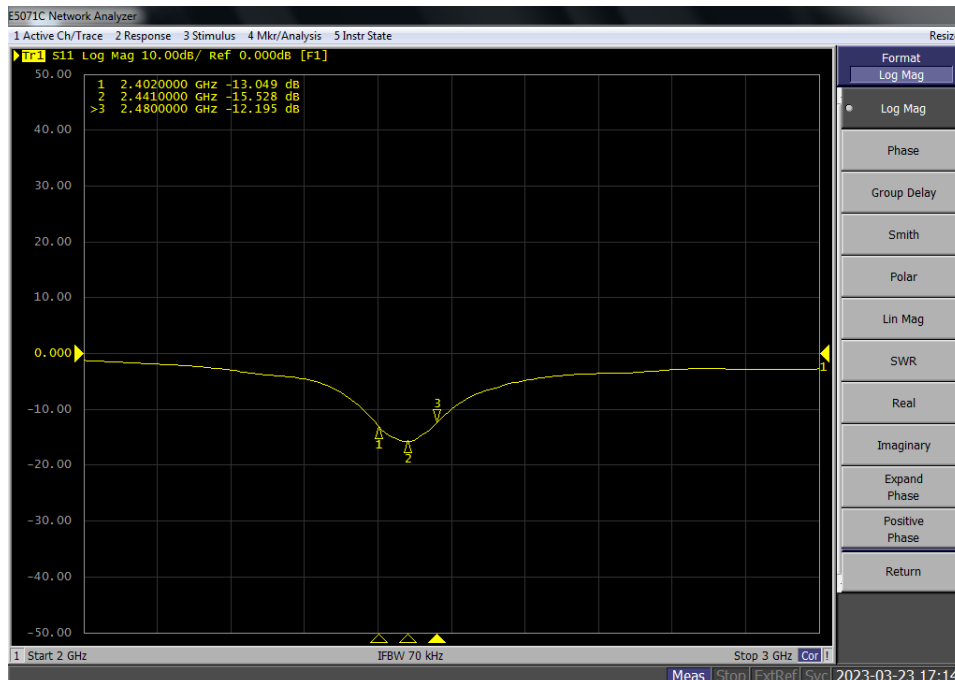
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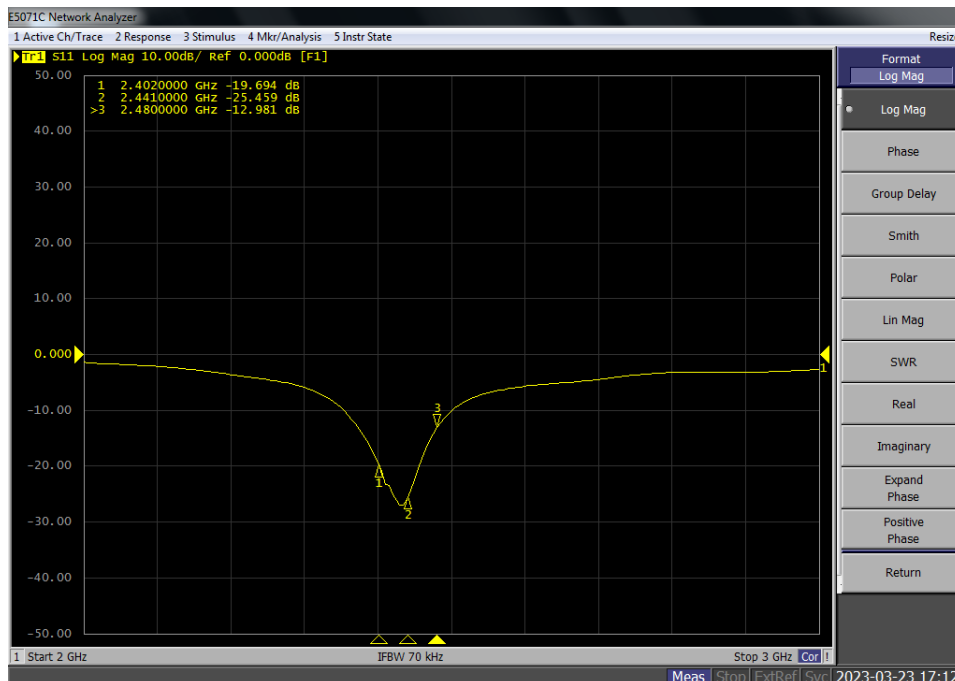
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6 Pattern Plots

6.1 Return Loss



Free Space #1



Beside Head #1



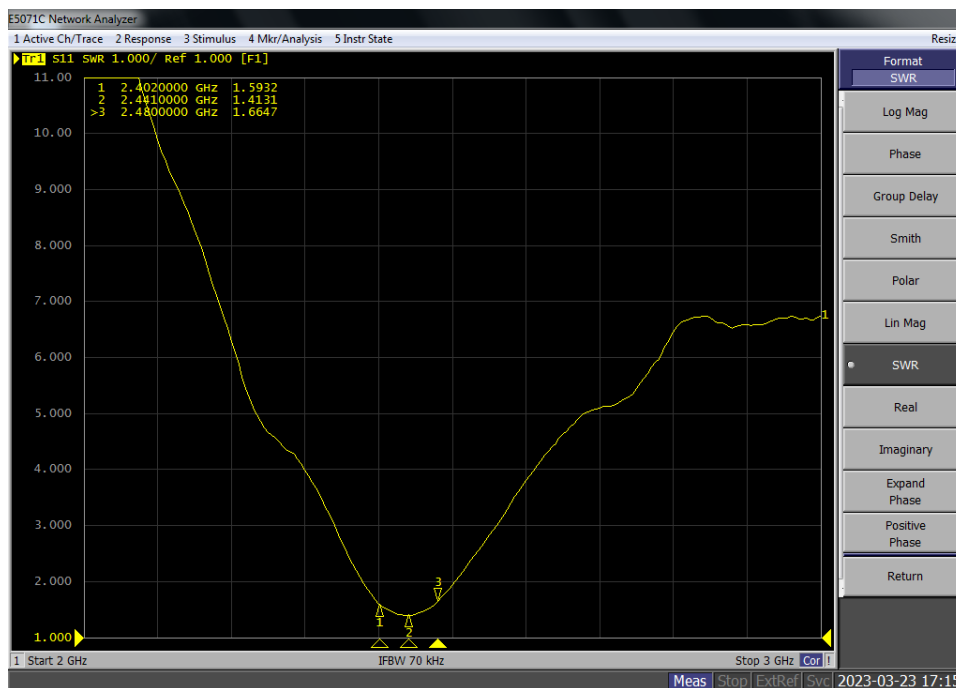
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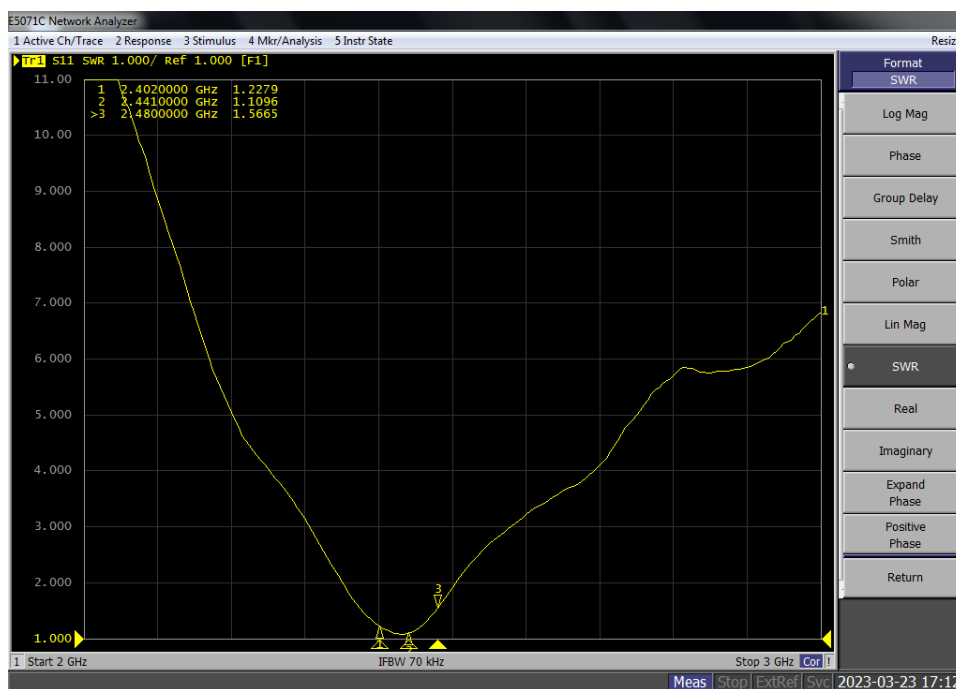
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6.2 VSWR



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Beside Head #1



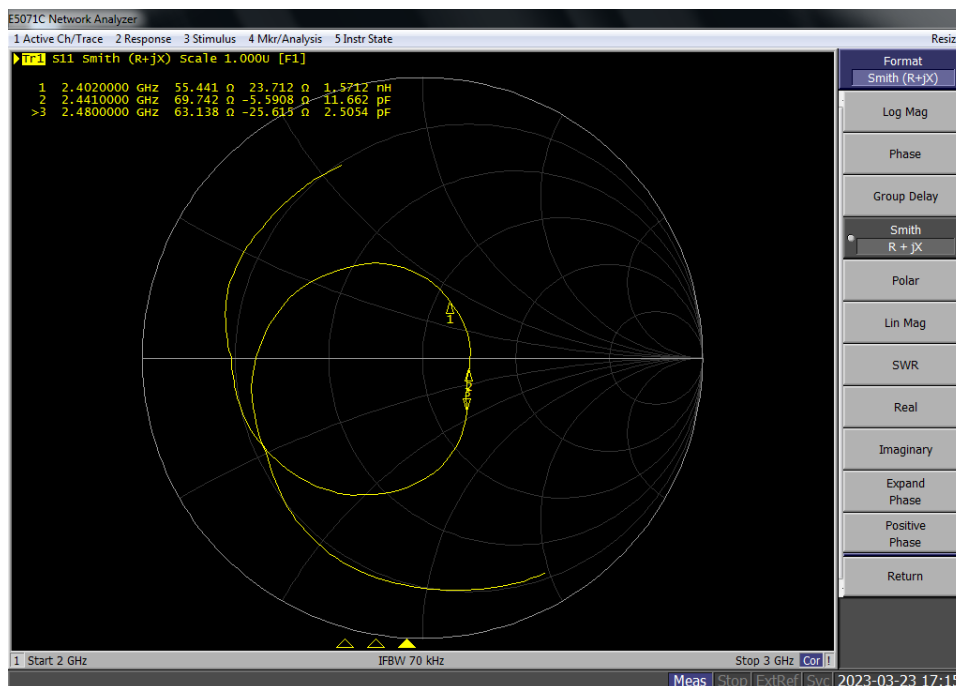
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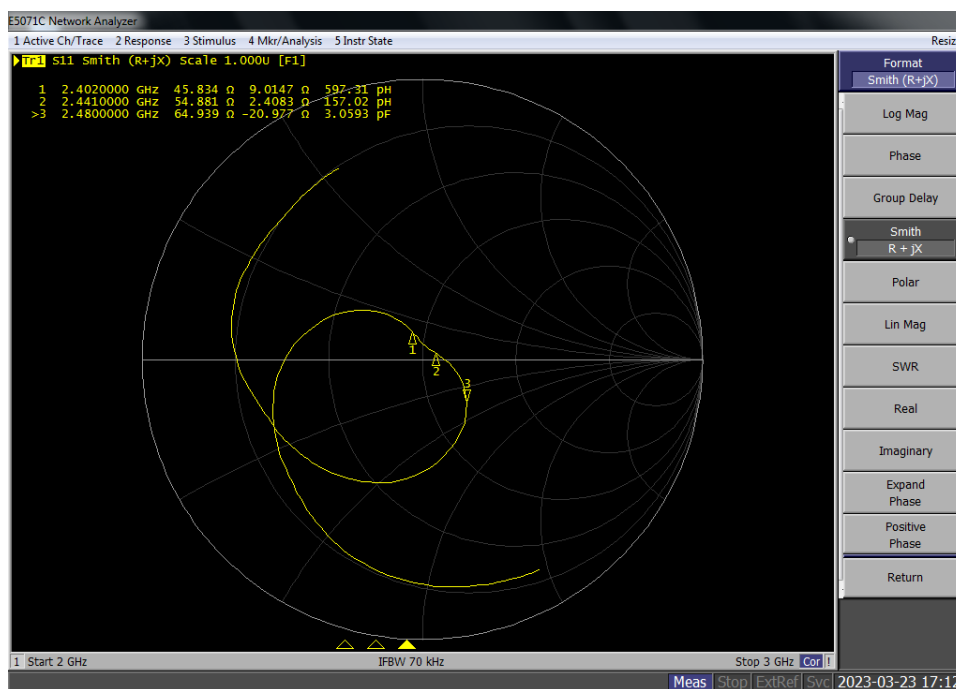
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6.3 Stimulus



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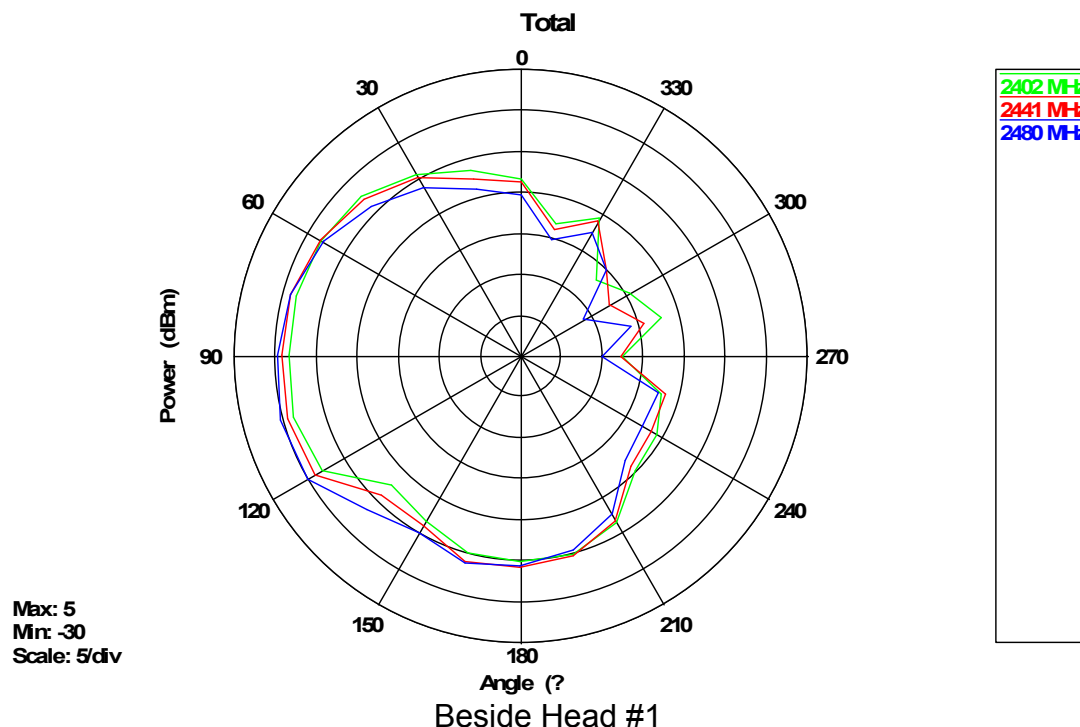
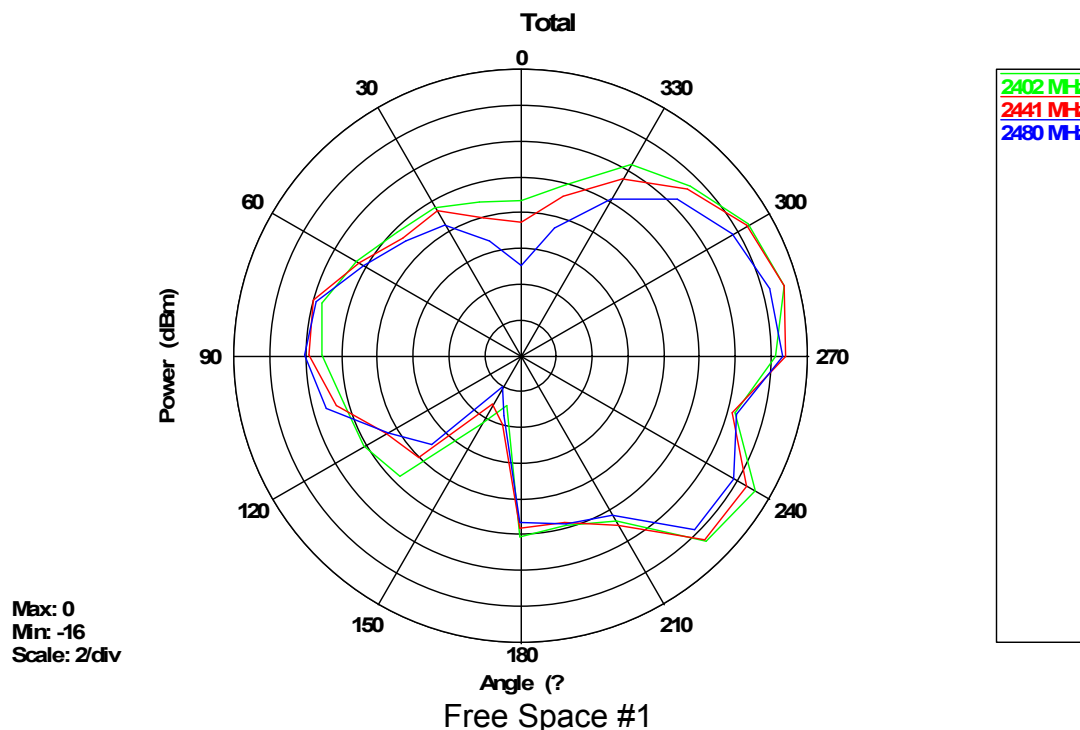
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7 2-D Antenna Pattern(Theta=90°)



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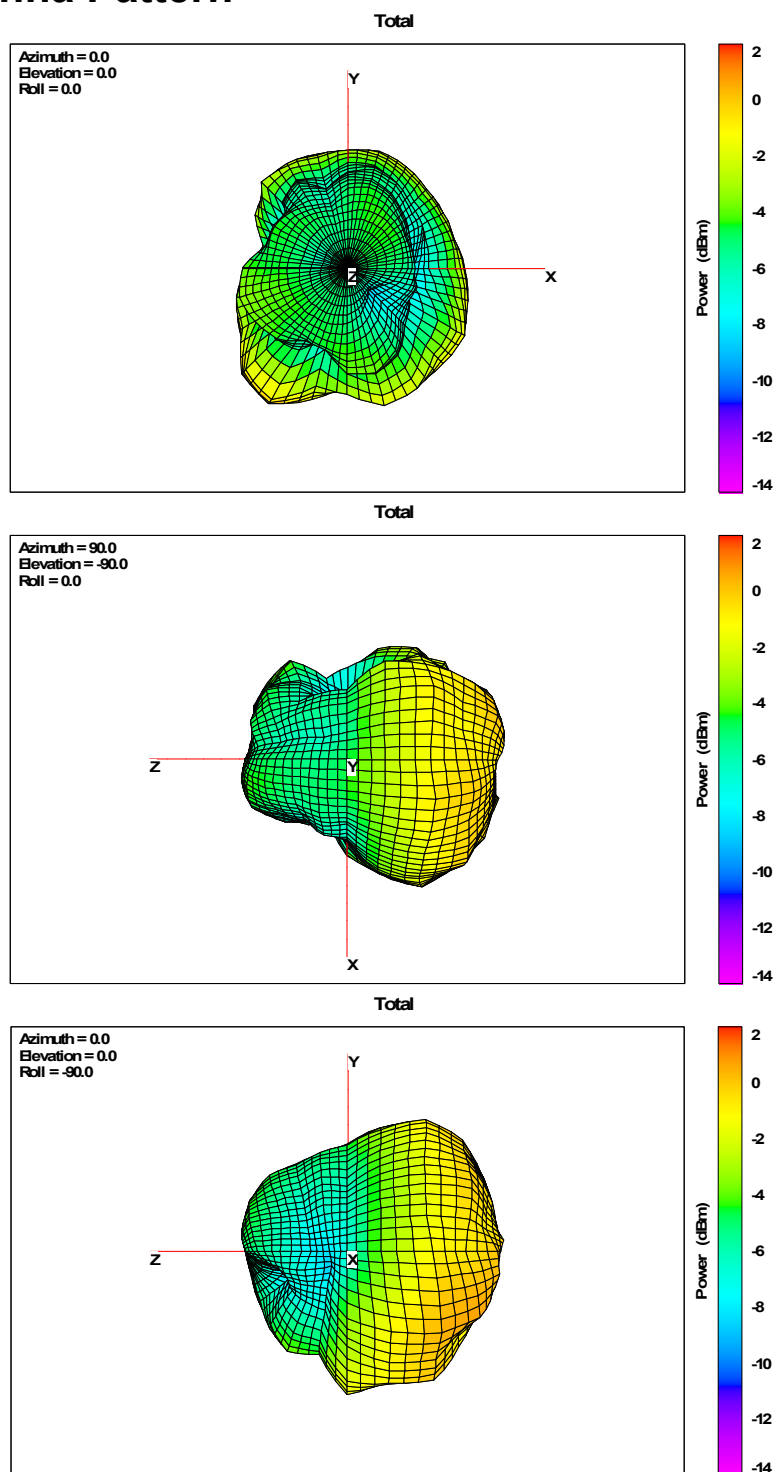
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8 3-D Antenna Pattern



Free Space #1



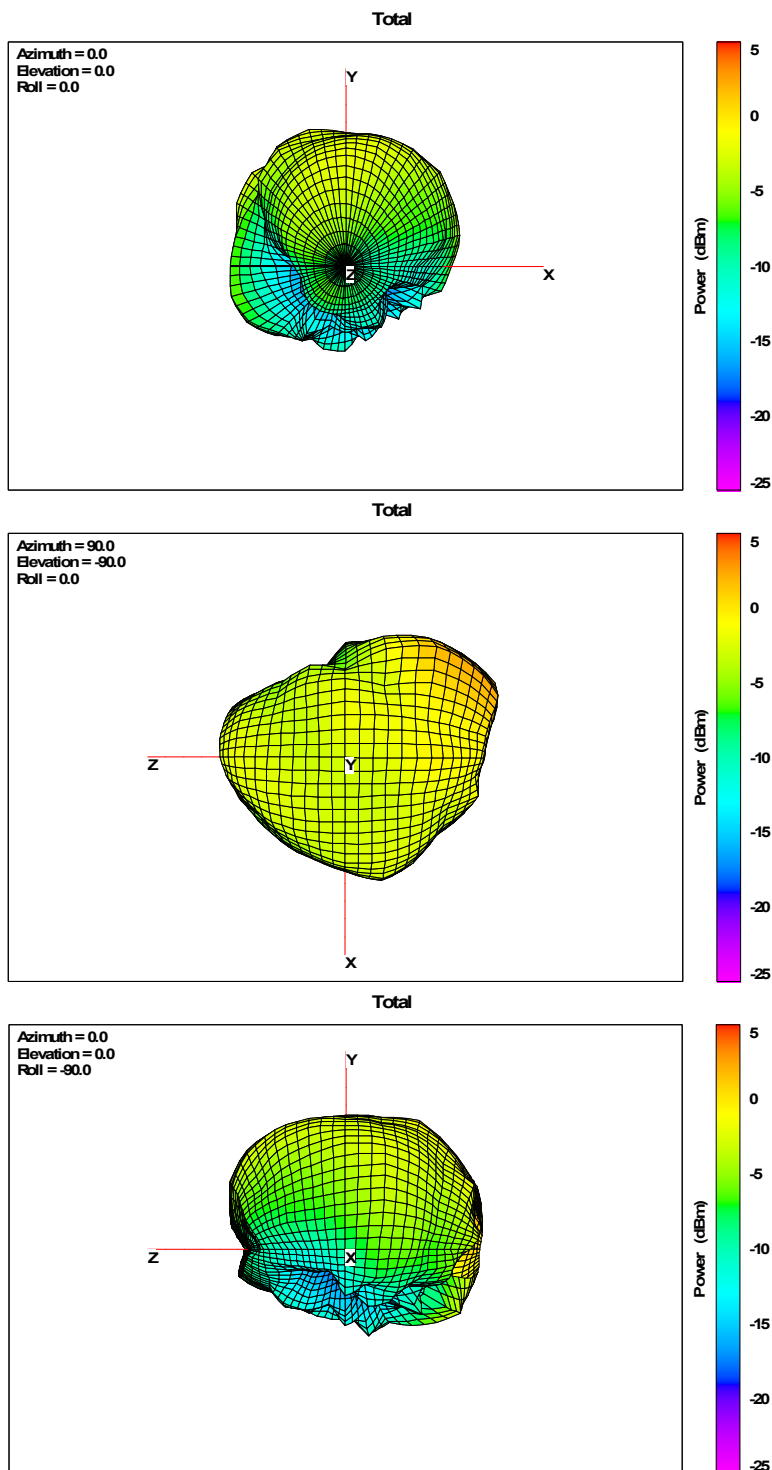
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Beside Head #1



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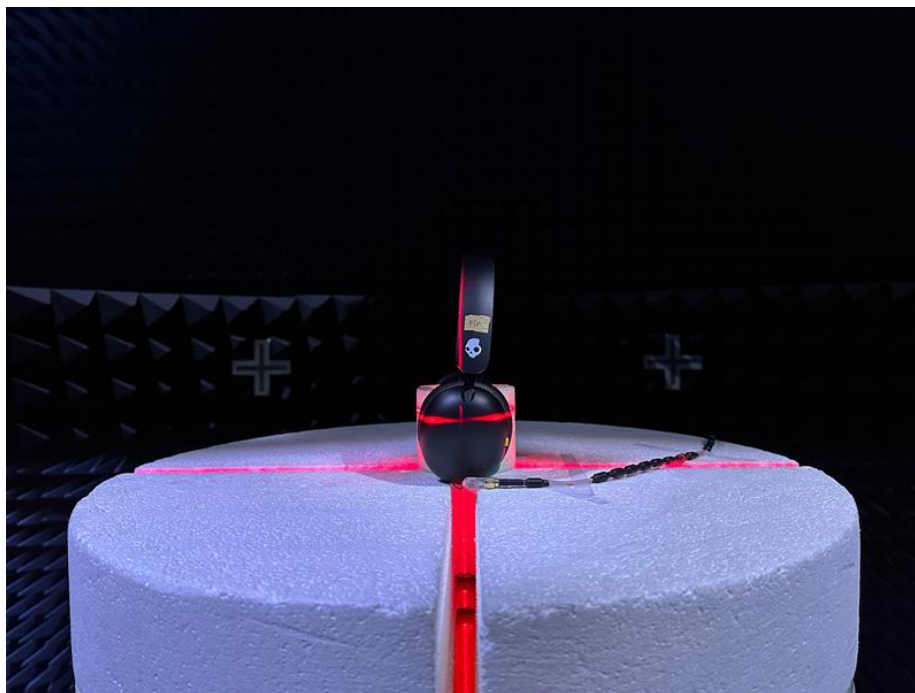
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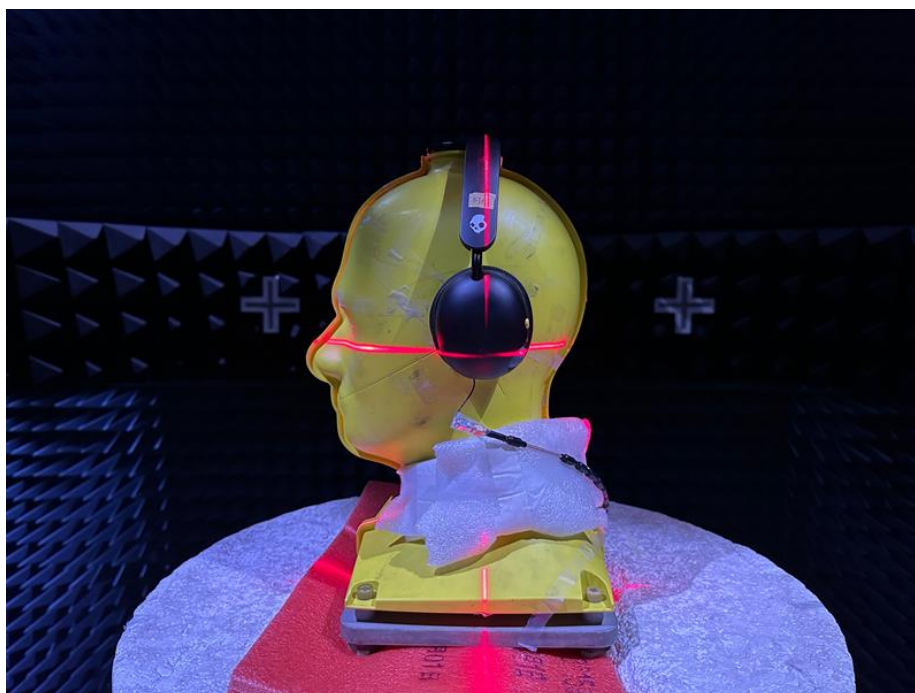
9 The EUT and Test Configuration



Photo of EUT



Free Space View



Beside Head View



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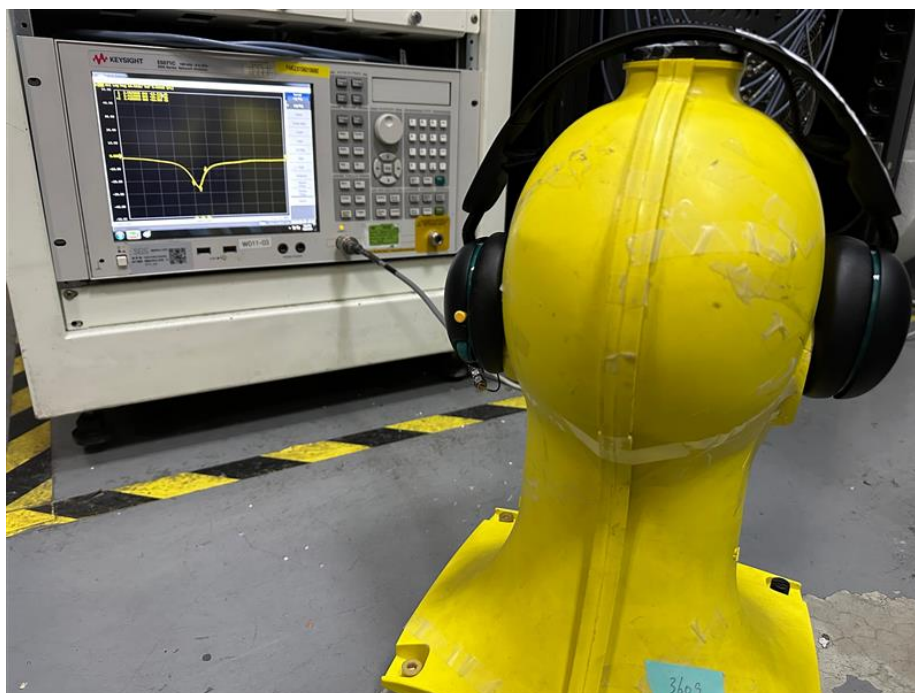
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Free Space Impedance Setup



Beside Head Impedance Setup

---END---