

Shenzhen Branch

Report No.: ZEWM2211001370OA02

Rev.00

Page: 1 of 30

ANTENNA PASSIVE TEST REPORT

Application No. ZEWM2211001370OA SKULLCANDY, INC. **Applicant** Manufacturer SKULLCANDY, INC. SLYR PRO WIRELESS **Product Name**

Model No. S6SCY

Standards ANSI/IEEE Std 149-2008

Date Initial Sample(s) Received 2023.11.15 **Testing Start Date** 2023.11.15 **Testing Finish Date** 2023.11.21 **Report Issue Date** 2023.12.12

Turner He

Prepared by

Max. Huang

Reviewed By



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



Shenzhen Branch

Report No.: ZEWM2211001370OA02

Rev.00

Page: 2 of 30

Revision Version

Report No.	Version	Date	Memo
ZEWM2211001370OA02	00	2023.12.12	Initial creation of report



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Report No.: ZEWM2211001370OA02

Rev.00

Page: 3 of 30

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Testing Laboratory	4
1.2	Details of Applicant	
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	14
6.1	Return Loss	14
6.2	VSWR	
6.3	Stimulus	
7	2-D ANTENNA PATTERN(THETA=90°)	20
8	3-D ANTENNA PATTERN	22
9	THE EUT AND TEST CONFIGURATION	26
-		



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Report No.: ZEWM2211001370OA02

Rev.00

Page: 4 of 30

1 **General Information**

1.1 Testing Laboratory

Test Lab	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
LAMMIDEE	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	Andrew Carter
Tel.	(404) 561-0830
Fax	N/A
E-mail	andrew.carter@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	Andrew Carter
Tel.	(404) 561-0830
Fax	N/A
E-mail	andrew.carter@skullcandy.com



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Shenzhen Branch

Report No.: ZEWM2211001370OA02

Rev.00

Page: 5 of 30

1.4 General Description of EUT

Device Description:	SLYR PRO WIRELESS
Device Manufacturer:	SKULLCANDY, INC.
Device Model:	S6SCY
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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Report No.: ZEWM2211001370OA02

Rev.00

Page: 6 of 30

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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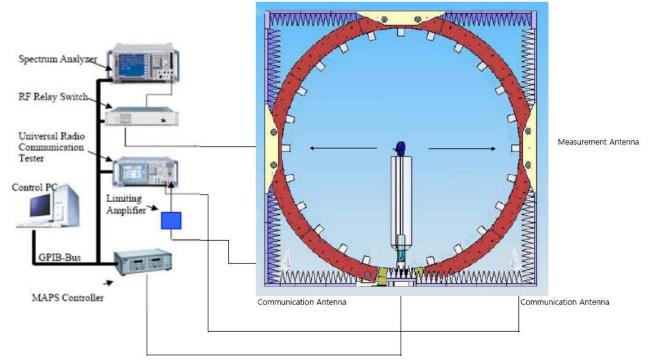
Rev.00

7 of 30 Page:

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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Shenzhen Branch

Report No.: ZEWM2211001370OA02

Rev.00

Page: 8 of 30

Test Equipment List 3

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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Report No.: ZEWM2211001370OA02

Rev.00

Page: 9 of 30

Measurement Uncertainty 4

	J	
Item	2400-2500 MHz (dB)	
Gain	0.88	
Efficiency 0.88		
Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2		



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Report No.: ZEWM2211001370OA02

Rev.00

Page: 10 of 30

Test Results

FS-#1				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-5.86	25.96	-2.06	
2355	-5.76	26.56	-1.87	
2360	-5.31	29.46	-1.52	
2365	-5.19	30.25	-1.58	
2370	-5.01	31.53	-1.26	
2375	-4.90	32.38	-1.25	
2380	-4.64	34.33	-0.85	
2385	-4.30	37.19	-0.59	
2390	-4.12	38.73	-0.13	
2395	-3.82	41.53	0.15	
2400	-3.92	40.55	-0.03	
2402	-3.94	40.36	0.14	
2405	-3.90	40.71	0.21	
2410	-3.83	41.36	-0.10	
2415	-3.79	41.74	0.04	
2420	-3.60	43.64	-0.06	
2425	-3.69	42.71	-0.13	
2430	-3.80	41.65	-0.28	
2435	-3.98	40.02	-0.49	
2440	-4.03	39.57	-0.47	
2441	-3.99	39.92	-0.46	
2445	-3.94	40.39	-0.49	
2450	-3.91	40.68	-0.53	
2455	-3.80	41.67	-0.54	
2460	-4.00	39.82	-0.75	

FS-#2				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-5.90	25.73	-2.10	
2355	-5.80	26.32	-1.93	
2360	-5.35	29.19	-1.57	
2365	-5.23	29.97	-1.63	
2370	-5.05	31.24	-1.31	
2375	-4.93	32.12	-1.31	
2380	-4.68	34.07	-0.90	
2385	-4.33	36.91	-0.65	
2390	-4.15	38.45	-0.20	
2395	-3.85	41.25	0.08	
2400	-3.95	40.29	-0.09	
2402	-3.97	40.11	0.09	
2405	-3.93	40.45	0.15	
2410	-3.86	41.12	-0.15	
2415	-3.82	41.51	-0.02	
2420	-3.63	43.36	-0.10	
2425	-3.72	42.43	-0.19	
2430	-3.83	41.40	-0.30	
2435	-4.00	39.80	-0.51	
2440	-4.05	39.38	-0.50	
2441	-4.01	39.72	-0.50	
2445	-3.96	40.18	-0.53	
2450	-3.93	40.45	-0.58	
2455	-3.83	41.44	-0.58	
2460	-4.02	39.63	-0.80	



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Report No.: ZEWM2211001370OA02

Rev.00

Page: 11 of 30

2465	-4.13	38.68	-0.96
2470	-4.43	36.03	-1.21
2475	-4.55	35.12	-1.34
2480	-4.64	34.38	-1.31
2482	-4.65	34.25	-1.20
2485	-4.64	34.35	-1.20
2490	-4.57	34.89	-0.97
2495	-4.38	36.47	-0.60
2500	-4.25	37.61	-0.45
2505	-4.05	39.35	-0.11
2510	-3.98	40.03	0.13
2515	-4.09	39.01	0.20
2520	-4.26	37.51	0.12
2525	-4.45	35.87	0.06
2530	-4.54	35.16	-0.05
2535	-4.59	34.77	-0.27
2540	-4.50	35.51	-0.21
2545	-4.35	36.77	-0.08
2550	-4.29	37.22	-0.01
2555	-4.26	37.47	0.10
2560	-4.34	36.84	-0.08
2565	-4.31	37.06	-0.05
2570	-4.28	37.30	-0.16
2575	-4.19	38.15	-0.22
2580	-4.07	39.17	-0.15

2465	-4.15	38.47	-1.03
2470	-4.46	35.83	-1.25
2475	-4.57	34.90	-1.38
2480	-4.67	34.13	-1.36
2482	-4.69	33.99	-1.25
2485	-4.68	34.06	-1.25
2490	-4.61	34.59	-1.03
2495	-4.42	36.14	-0.70
2500	-4.29	37.25	-0.52
2505	-4.09	38.95	-0.20
2510	-4.03	39.58	0.02
2515	-4.14	38.55	0.09
2520	-4.31	37.10	0.00
2525	-4.50	35.48	-0.05
2530	-4.58	34.80	-0.16
2535	-4.63	34.41	-0.38
2540	-4.54	35.13	-0.32
2545	-4.39	36.36	-0.19
2550	-4.34	36.80	-0.12
2555	-4.31	37.06	-0.01
2560	-4.38	36.44	-0.19
2565	-4.35	36.69	-0.15
2570	-4.33	36.92	-0.27
2575	-4.23	37.72	-0.33
2580	-4.12	38.76	-0.27



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Report No.: ZEWM2211001370OA02

Rev.00

Page: 12 of 30

BH-#1			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-7.33	18.51	-1.37
2355	-7.15	19.26	-1.28
2360	-6.63	21.71	-0.76
2365	-6.49	22.45	-0.73
2370	-6.20	24.02	-0.19
2375	-6.08	24.65	-0.40
2380	-5.72	26.81	0.23
2385	-5.34	29.23	0.31
2390	-5.09	30.98	0.68
2395	-4.73	33.68	0.89
2400	-4.82	32.96	0.63
2402	-4.78	33.27	0.92
2405	-4.74	33.58	0.95
2410	-4.71	33.80	0.68
2415	-4.57	34.92	1.18
2420	-4.35	36.75	1.26
2425	-4.35	36.73	1.27
2430	-4.37	36.54	1.33
2435	-4.50	35.51	1.03
2440	-4.45	35.86	1.36
2441	-4.40	36.29	1.41
2445	-4.34	36.79	1.26
2450	-4.27	37.44	1.49
2455	-4.14	38.57	1.56
2460	-4.29	37.24	1.49
2465	-4.34	36.81	1.49

BH-#2			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-7.56	17.56	-1.75
2355	-7.36	18.35	-1.69
2360	-6.80	20.87	-1.07
2365	-6.61	21.81	-0.85
2370	-6.31	23.39	-0.52
2375	-6.17	24.14	-0.41
2380	-5.82	26.18	-0.02
2385	-5.44	28.55	0.20
2390	-5.21	30.10	0.38
2395	-4.84	32.78	0.71
2400	-4.92	32.18	0.57
2402	-4.89	32.45	0.69
2405	-4.83	32.85	0.75
2410	-4.76	33.38	0.71
2415	-4.62	34.49	1.10
2420	-4.38	36.46	1.24
2425	-4.38	36.47	1.33
2430	-4.43	36.02	1.38
2435	-4.56	35.01	1.00
2440	-4.51	35.36	1.33
2441	-4.47	35.75	1.39
2445	-4.41	36.23	1.18
2450	-4.34	36.81	1.47
2455	-4.22	37.84	1.64
2460	-4.39	36.40	1.64
2465	-4.47	35.75	1.69



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Report No.: ZEWM2211001370OA02

Rev.00

13 of 30 Page:

2470	-4.64	34.34	1.14
2475	-4.68	34.01	1.18
2480	-4.76	33.40	1.16
2482	-4.81	33.04	1.17
2485	-4.81	33.06	1.33
2490	-4.83	32.91	1.33
2495	-4.75	33.51	1.56
2500	-4.74	33.57	1.61
2505	-4.73	33.65	1.73
2510	-4.80	33.09	1.81
2515	-5.11	30.82	1.59
2520	-5.40	28.86	1.41
2525	-5.78	26.42	1.01
2530	-5.99	25.16	0.89
2535	-6.16	24.20	0.64
2540	-6.20	24.01	0.69
2545	-6.13	24.35	0.79
2550	-6.20	23.99	0.74
2555	-6.23	23.80	0.70
2560	-6.40	22.89	0.53
2565	-6.46	22.60	0.44
2570	-6.52	22.31	0.25
2575	-6.44	22.72	0.29
2580	-6.36	23.12	0.07

2470 -4.80 33.14 1.40 2475 -4.86 32.63 1.45 2480 -4.93 32.14 1.40 2482 -4.97 31.87 1.39 2485 -4.94 32.05 1.53 2490 -4.93 32.12 1.47 2495 -4.82 32.95 1.65 2500 -4.80 33.10 1.66 2505 -4.79 33.23 1.70 2510 -4.86 32.63 1.74 2515 -5.18 30.31 1.49 2520 -5.47 28.37 1.30 2525 -5.83 26.10 0.95 2530 -6.03 24.95 0.86 2535 -6.18 24.09 0.66 2540 -6.20 24.01 0.71 2545 -6.13 24.41 0.81	
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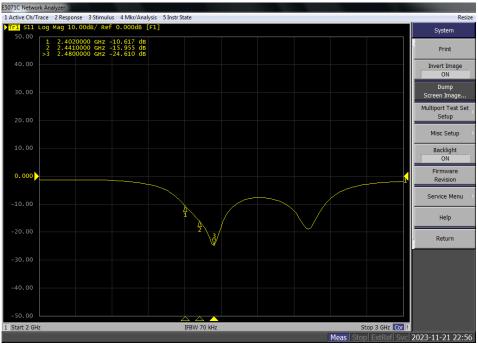
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Rev.00

14 of 30 Page:

Pattern Plots

6.1 Return Loss



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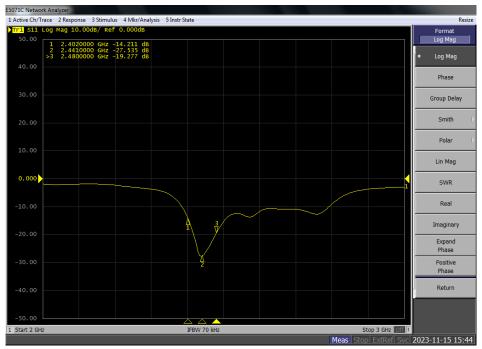


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Report No.: ZEWM2211001370OA02

Rev.00

Page: 15 of 30



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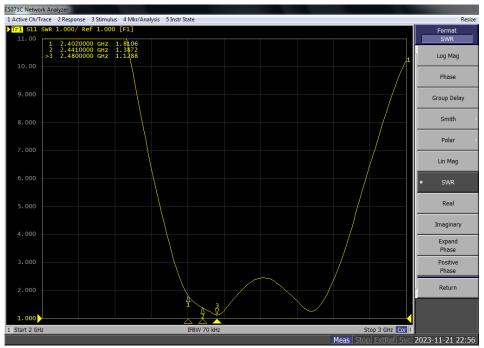
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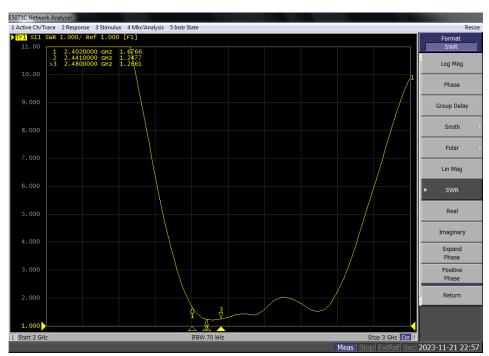
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Page: 16 of 30

6.2 VSWR



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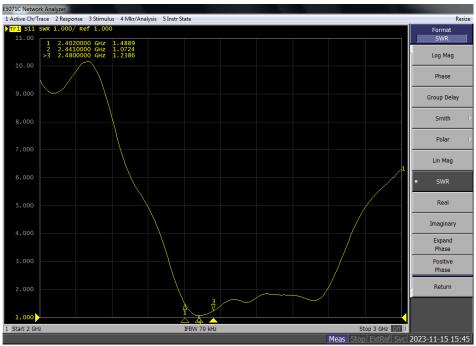


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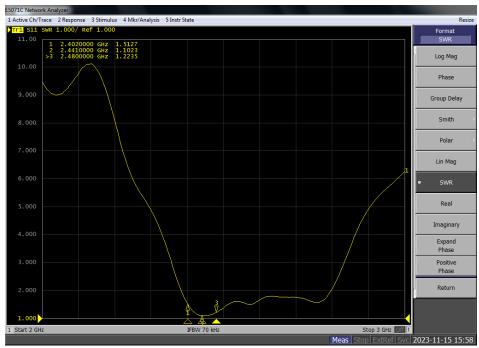
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Rev.00

Page: 17 of 30



BH-#1



BH-#2

6.3 Stimulus



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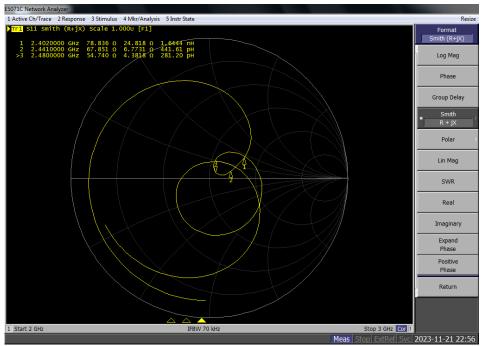


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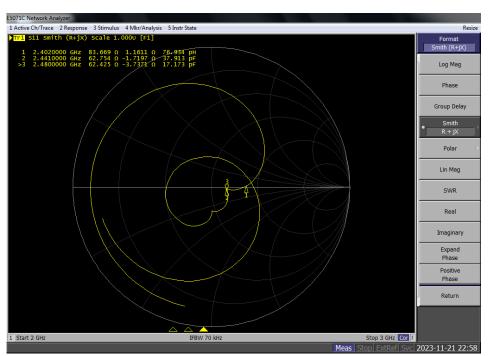
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Rev.00

18 of 30 Page:



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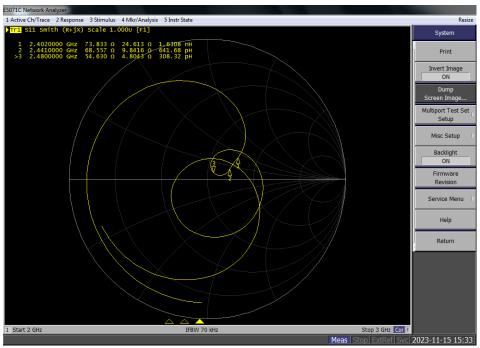


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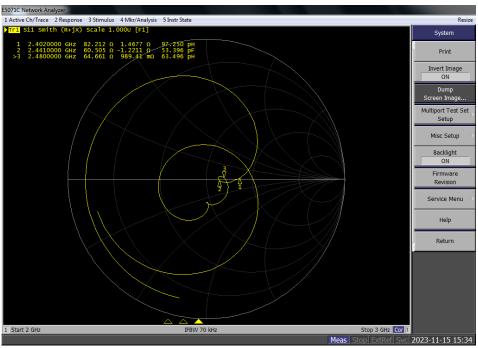
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Rev.00

Page: 19 of 30



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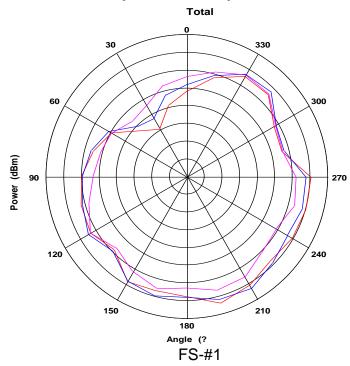


Report No.: ZEWM2211001370OA02

Rev.00

Page: 20 of 30

2-D Antenna Pattern(Theta=90°)

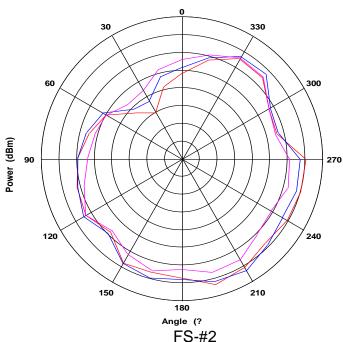


2441 MHz

2402 MHz

Max: 0 Min: -16 Scale: 2/div

Total



2402 MH 2441 MHz 2480 MH



Max: 0

Min: -16 Scale: 2/div

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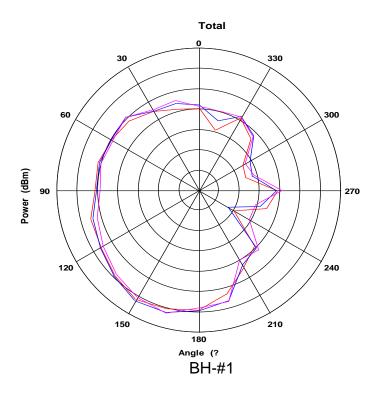


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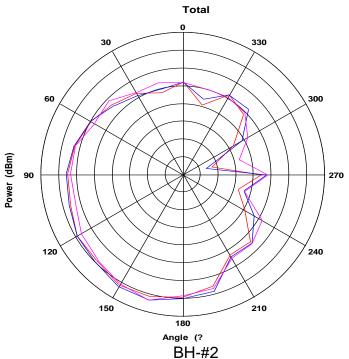
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Page: 21 of 30



2402 MHz 2441 MHz

Min: -30 Scale: 5/div



2402 MHz 2441 MHz



Max: 5

Min: -35 Scale: 5/div

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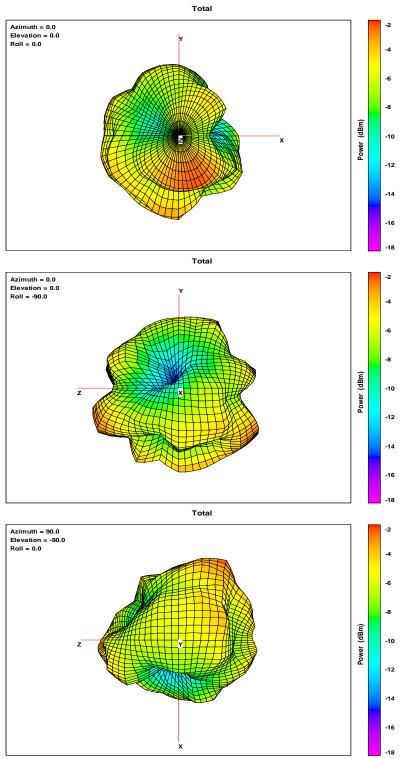


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8 3-D Antenna Pattern







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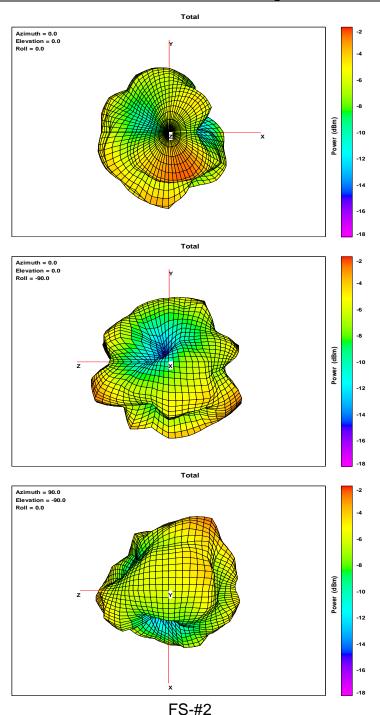
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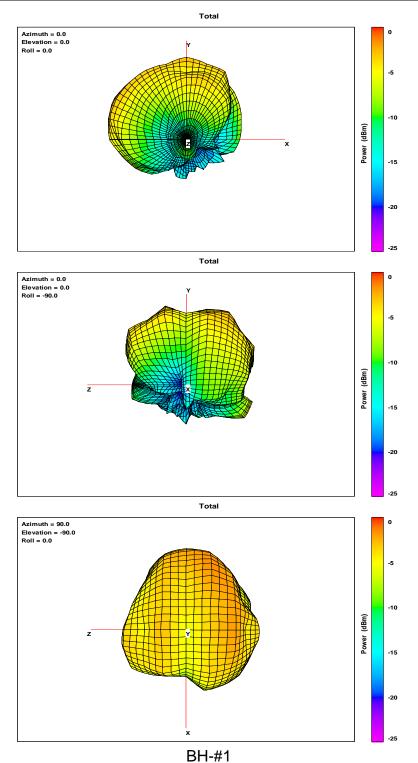
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Page: 24 of 30





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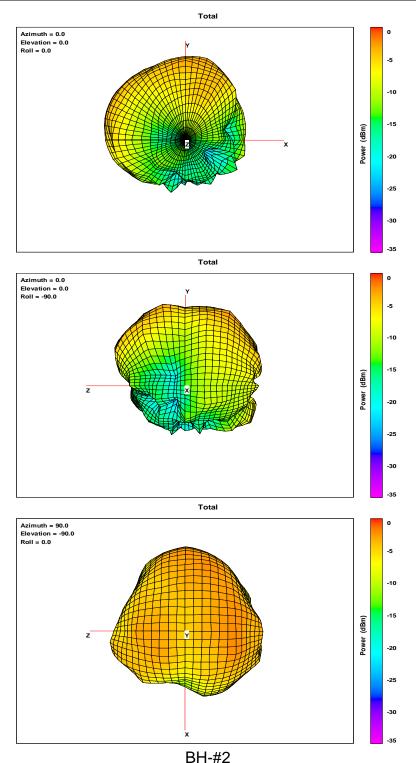
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Report No.: ZEWM2211001370OA02

Rev.00

Page: 25 of 30





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Report No.: ZEWM2211001370OA02

Rev.00

Page: 26 of 30

The EUT and Test Configuration 9



Photo of EUT #1



Photo of EUT #2



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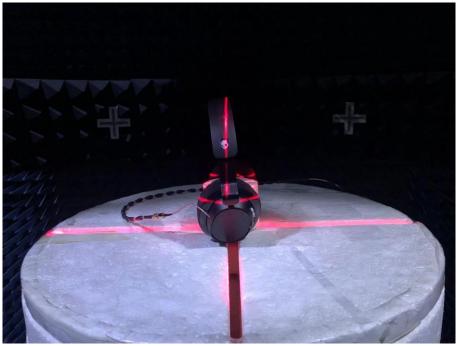


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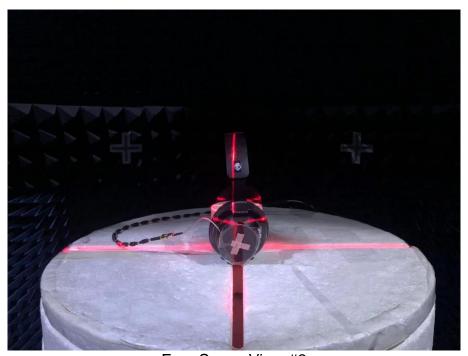
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Rev.00

27 of 30 Page:



Free Space View-#1



Free Space View-#2



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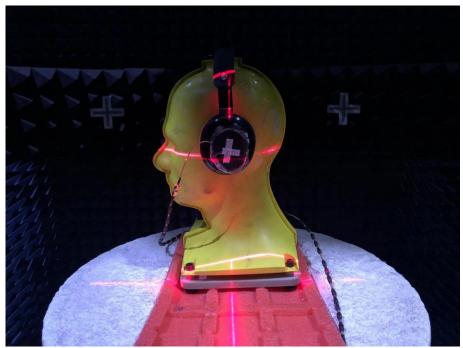


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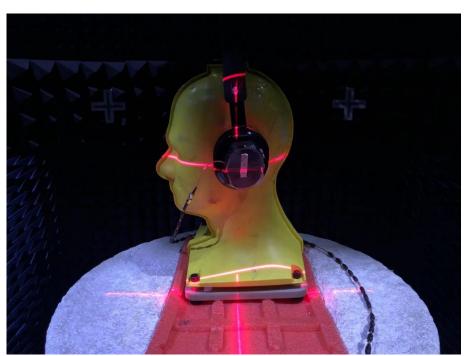
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28 of 30 Page:



Beside Head View-#1



Beside Head View-#2



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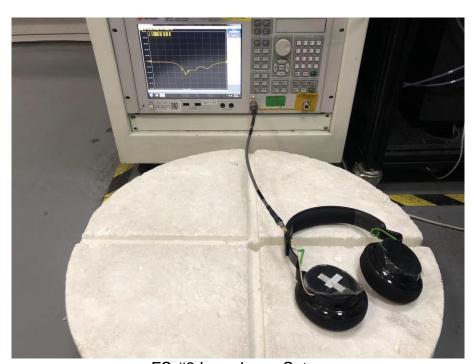
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29 of 30 Page:



FS-#1 Impedance Setup



FS-#2 Impedance Setup



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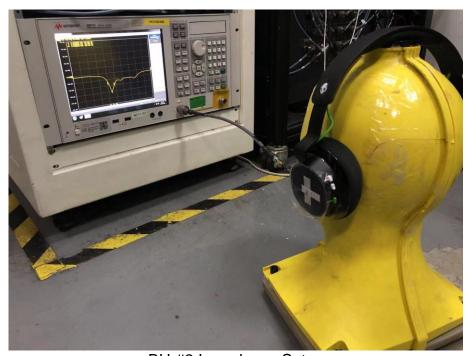
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30 of 30 Page:



BH-#1 Impedance Setup



BH-#2 Impedance Setup

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