

Shenzhen Branch

Report No.: ZEWM2209001119OA02

Rev.00

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ANTENNA PASSIVE TEST REPORT

Application No. ZEWM2209001119OA **Applicant** SKULLCANDY, INC. Manufacturer SKULLCANDY, INC. **Product Name** Rail ANC / Rail ANC XT

Model No. S2IPW

Standards ANSI/IEEE Std 149-2008

Date Initial Sample(s) Received 2022.09.19 **Testing Start Date** 2022.09.21 **Testing Finish Date** 2023.01.01 **Report Issue Date** 2023.03.06

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

Yuanyu Luo

Prepared by

Max. Huang

Approved by

Irvin 21





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Report No.	Version	Date	Memo
ZEWM2209001119OA02	00	2023.03.06	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
1001 245	Branch
Address	No. 1 Workshop, M-10, Middle section, Science & Technology
Address	Park, Nanshan District, Shenzhen, Guangdong, China 518057
Contact	Simon Ling
Tel.	+86 (0) 755 2601 2053
Fax	+86 (0) 755 2671 0594
E-mail	Simon.Ling@sgs.com

Details of Applicant 1.2

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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General Description of EUT

Device Description:	Rail ANC / Rail ANC XT
Device Manufacturer:	SKULLCANDY, INC.
Device Model:	S2IPW
Hardware Version:	1.0
Software Version:	V028

1.5 **Test Procedure**

Testing is performed according to the ANSI/IEEE Std 149-2008.





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Test Specification 1.6

Identity	Document Title
ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas

Laboratory Environment 1.7

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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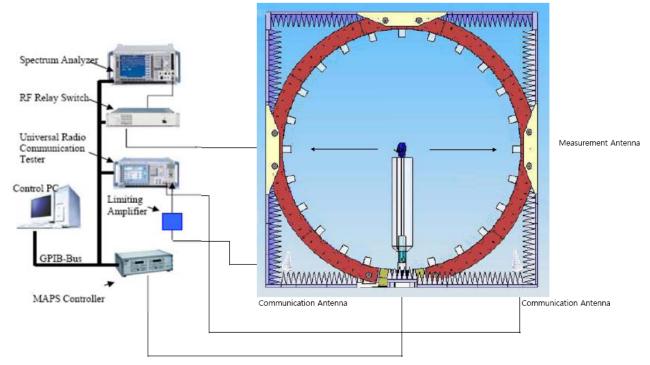
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OTA Measurements System Configuration 2

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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Test Equipment List 3

Type of Equipment	Model Number	Manufacture	Calibration Date	Valid Period
Network Analyzer	E5071C S/N MY46523591	Keysight	2022/4/11	2023/4/10
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)	
	= 100 = 000 mm = (m=)	
Gain	0.88	
Gaill	0.88	
F 60' - '	0.00	
Eπiciency	Efficiency 0.88	
Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2		
Wedstrement officertainty (35% OOM IDENOE INTERVAL) IX-2		





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Test Results 5

Free Space Left #1				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-7.50	17.77	-1.04	
2355	-7.24	18.89	-0.72	
2360	-6.91	20.36	-0.54	
2365	-6.76	21.08	-0.28	
2370	-6.65	21.62	-0.24	
2375	-6.59	21.93	-0.06	
2380	-6.37	23.06	0.13	
2385	-6.25	23.72	0.28	
2390	-6.01	25.08	0.55	
2395	-5.83	26.12	0.68	
2400	-5.79	26.35	0.74	
2402	-5.75	26.59	0.68	
2405	-5.69	27.00	0.78	
2410	-5.55	27.83	0.91	
2415	-5.40	28.82	0.98	
2420	-5.29	29.61	1.19	
2425	-5.19	30.25	1.18	
2430	-5.16	30.46	1.30	
2435	-5.09	30.99	1.26	
2440	-4.95	32.00	1.49	
2441	-4.93	32.12	1.49	
2445	-4.91	32.30	1.37	
2450	-4.88	32.52	1.49	
2455	-4.91	32.28	1.34	
2460	-4.97	31.81	1.38	

Free Space Right #1				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-6.68	21.46	-0.12	
2355	-6.41	22.88	0.19	
2360	-6.15	24.25	0.34	
2365	-6.11	24.51	0.44	
2370	-6.04	24.89	0.38	
2375	-6.03	24.93	0.45	
2380	-5.86	25.93	0.55	
2385	-5.83	26.12	0.62	
2390	-5.66	27.18	0.77	
2395	-5.56	27.78	0.89	
2400	-5.51	28.12	0.93	
2402	-5.45	28.53	0.90	
2405	-5.41	28.75	1.02	
2410	-5.30	29.54	1.13	
2415	-5.25	29.82	1.11	
2420	-5.26	29.76	1.17	
2425	-5.27	29.74	1.16	
2430	-5.29	29.59	1.16	
2435	-5.22	30.05	1.28	
2440	-5.10	30.92	1.38	
2441	-5.08	31.04	1.42	
2445	-5.09	30.99	1.45	
2450	-5.09	30.94	1.43	
2455	-5.18	30.36	1.41	
2460	-5.26	29.78	1.35	



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2465	-4.99	31.67	1.24
2470	-5.20	30.17	1.10
2475	-5.21	30.15	1.07
2480	-5.42	28.69	0.88
2482	-5.40	28.82	0.99
2485	-5.36	29.14	1.00
2490	-5.41	28.78	0.86
2495	-5.20	30.22	1.15
2500	-5.24	29.94	0.94
2505	-5.30	29.53	0.92
2510	-5.46	28.45	0.61
2515	-5.77	26.51	0.33
2520	-5.92	25.57	0.12
2525	-6.15	24.24	-0.08
2530	-6.20	23.98	-0.14
2535	-6.32	23.32	-0.24
2540	-6.31	23.38	-0.23
2545	-6.25	23.69	-0.21
2550	-6.34	23.23	-0.30
2555	-6.42	22.80	-0.43
2560	-6.69	21.41	-0.71
2565	-6.86	20.60	-0.96
2570	-7.13	19.36	-1.29
2575	-7.27	18.74	-1.47
2580	-7.32	18.52	-1.55

2465	-5.30	29.48	1.34
2470	-5.52	28.05	1.14
2475	-5.52	28.06	1.15
2480	-5.73	26.74	0.96
2482	-5.70	26.90	0.94
2485	-5.62	27.39	1.07
2490	-5.70	26.89	1.01
2495	-5.49	28.24	1.17
2500	-5.63	27.34	1.11
2505	-5.73	26.76	0.98
2510	-5.92	25.58	0.89
2515	-6.15	24.26	0.57
2520	-6.21	23.94	0.58
2525	-6.41	22.87	0.32
2530	-6.39	22.96	0.33
2535	-6.55	22.14	0.13
2540	-6.52	22.28	0.12
2545	-6.56	22.05	0.07
2550	-6.69	21.42	-0.11
2555	-6.84	20.69	-0.21
2560	-7.14	19.30	-0.52
2565	-7.30	18.63	-0.57
2570	-7.57	17.51	-0.83
2575	-7.65	17.19	-0.83
2580	-7.74	16.82	-0.94



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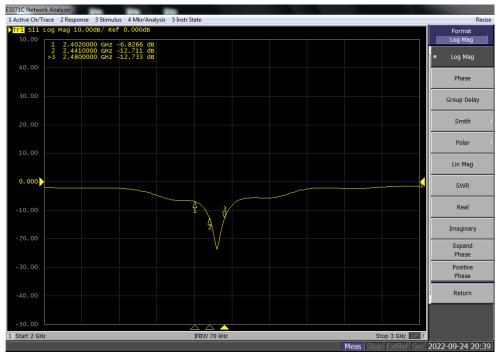
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Pattern Plots

6.1 Return Loss



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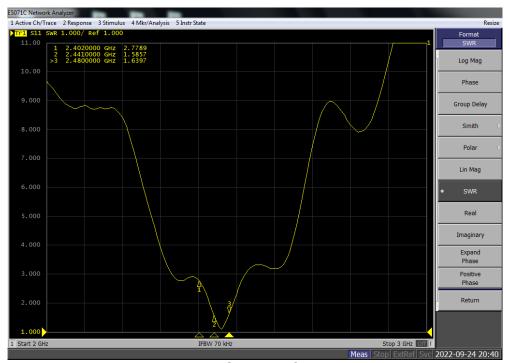


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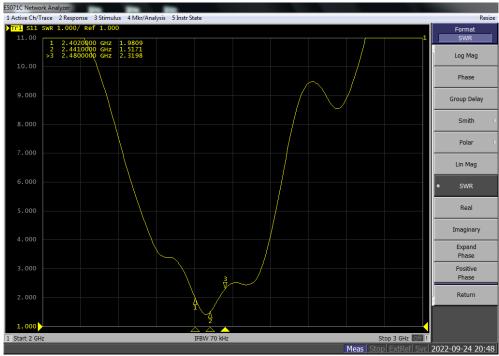
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6.2 VSWR



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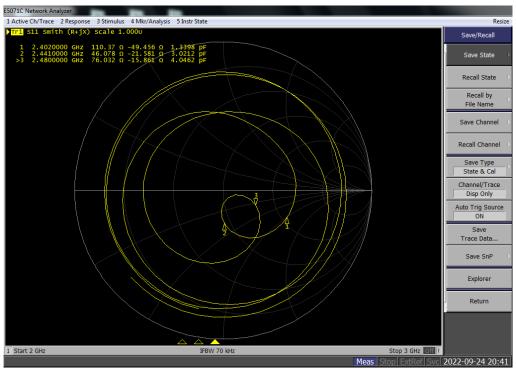
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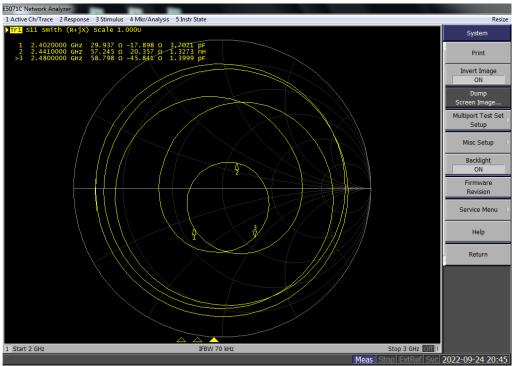
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6.3 Stimulus



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Max: 2

Min: -12 Scale: 2/div Shenzhen Branch

2402 MH 2441 MHz 2480 MH

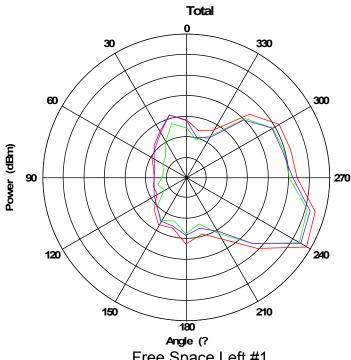
2402 MHz 2441 MH 2480 MH

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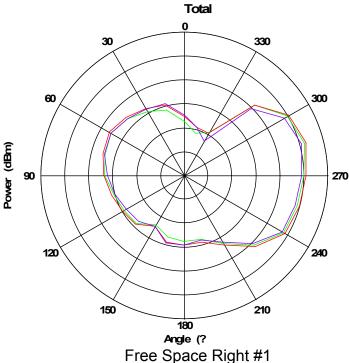
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2-D Antenna Pattern(Theta=90°)



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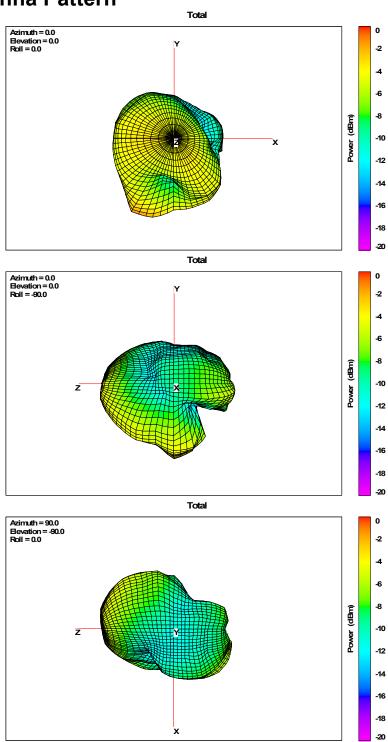


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3-D Antenna Pattern 8



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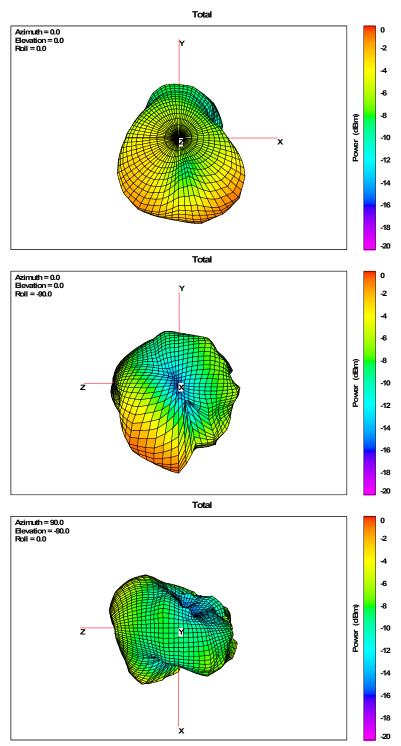
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Free Space Right #1



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The EUT and Test Configuration 9



Photo of EUT #1



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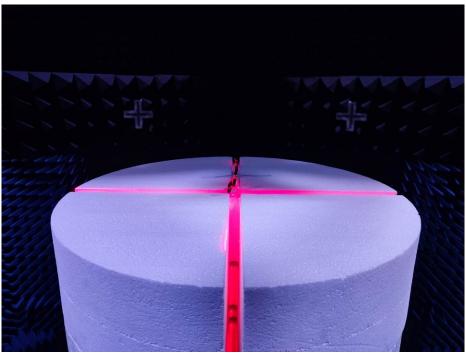


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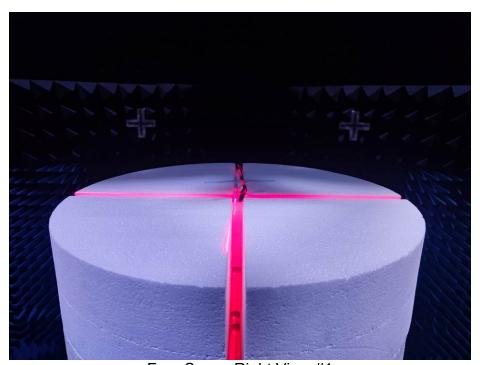
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Free Space Left View #1



Free Space Right View #1



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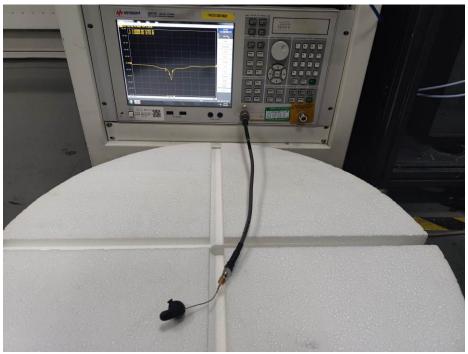


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Free Space Left Impedance Setup #1



Free Space Right Impedance Setup #1

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