

Shenzhen Branch

Report No.: ZEWM2311001749OA01

Rev.00

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ANTENNA PASSIVE TEST REPORT

Application No. ZEWM2311001749OA

Applicant Razer Inc

Manufacturer Razer (Asia-Pacific) Pte. Ltd.

Product Name Monitor Light Bar

Model No. RZ43-0504, RZ43-0504XXXX-XXXX (X can be 0-9 or A-Z)

Standards ANSI/IEEE Std 149-2008

Date Initial Sample(s) Received 2023.12.01 **Testing Start Date** 2023.12.01 **Testing Finish Date** 2023.12.02 **Report Issue Date** 2023.12.12

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

Max. Huang

Reviewed By



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Revision Version

Report No.	Version	Date	Memo
ZEWM2311001749OA01	00	2023.12.12	Initial creation of report



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General Information 1

1.1 Testing Laboratory

Test Lab	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen
Test Lab	Branch
Address	No. 1 Workshop, M-10, Middle section, Science & Technology
Address	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	Razer Inc
Applicant's Address	9 Pasteur, Suite 100, Irvine, CA92618, USA
Contact	Johnsen Tia
Tel.	+65 6571 6828
Fax	N/A
E-mail	johnsen.tia@razer.com

1.3 Details of Manufacturer

Manufacturer's Name	Razer (Asia-Pacific) Pte. Ltd.
Manufacturer's Address	Razer SEA HQ, 1 one-north Crescent, #02-01, Singapore 138538
Contact	Johnsen Tia
Tel.	+65 6571 6828
Fax	N/A
E-mail	johnsen.tia@razer.com



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1.4 General Description of EUT

Device Description:	Monitor Light Bar
Device Manufacturer:	Razer (Asia-Pacific) Pte. Ltd.
Device Model:	RZ43-0504, RZ43-0504XXXX-XXXX (X can be 0-9 or A-Z)
Hardware Version:	N/A
Software Version:	N/A
Antenna Dimensions:	38.06.4 x 24.23 x 0.5 mm

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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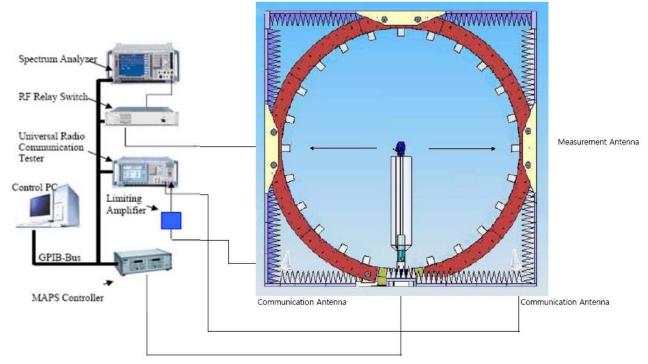
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OTA Measurements System Configuration

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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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



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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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Test Results 5

Free Space				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-1.89	64.70	5.77	
2355	-2.07	62.15	5.50	
2360	-1.77	66.50	5.82	
2365	-1.77	66.48	5.84	
2370	-1.79	66.25	5.73	
2375	-1.73	67.18	5.96	
2380	-1.74	67.00	5.73	
2385	-1.56	69.81	5.88	
2390	-1.62	68.84	5.69	
2395	-1.52	70.50	5.74	
2400	-1.75	66.91	5.58	
2402	-1.90	64.51	5.27	
2405	-1.97	63.60	5.25	
2410	-1.85	65.28	5.58	
2415	-1.92	64.31	5.38	
2420	-1.75	66.83	5.53	
2425	-1.85	65.29	5.36	
2430	-2.03	62.60	5.12	
2435	-2.12	61.44	5.16	
2440	-2.25	59.62	4.95	
2441	-2.24	59.72	4.93	
2445	-2.10	61.62	5.00	
2450	-2.10	61.65	5.26	
2455	-2.03	62.72	5.16	
2460	-2.18	60.50	5.13	



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2465	-2.36	58.13	4.81
2470	-2.65	54.38	4.57
2475	-2.78	52.69	4.35
2480	-2.90	51.27	4.11
2482	-2.87	51.69	4.29
2485	-2.84	51.98	4.31
2490	-2.79	52.64	4.28
2495	-2.54	55.74	4.80
2500	-2.54	55.78	4.74
2505	-2.46	56.79	4.91
2510	-2.60	54.98	4.67
2515	-2.86	51.80	4.53
2520	-3.15	48.45	4.13
2525	-3.30	46.75	4.10
2530	-3.34	46.38	4.04
2535	-3.28	47.03	4.14
2540	-3.17	48.21	4.13
2545	-3.04	49.68	4.18
2550	-3.15	48.47	3.92
2555	-3.29	46.88	3.76
2560	-3.48	44.84	3.49
2565	-3.50	44.70	3.51
2570	-3.40	45.68	3.70
2575	-3.28	46.95	3.66
2580	-3.10	49.01	3.92



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Pattern Plots

6.1 Return Loss



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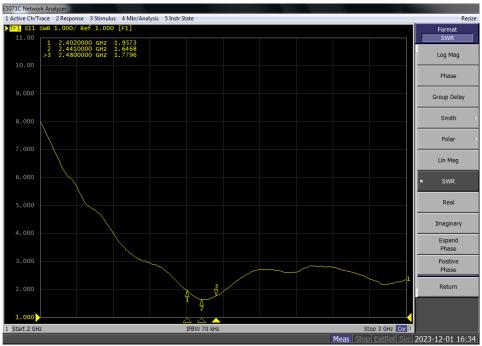
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6.2 VSWR



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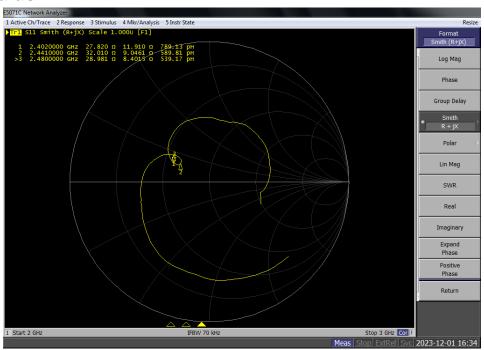
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6.3 Stimulus



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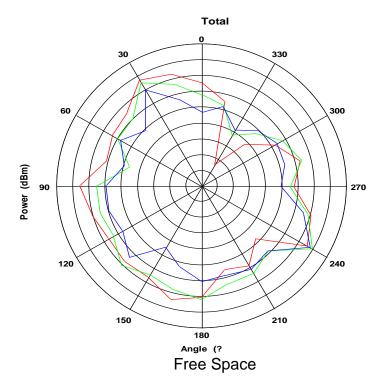
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2-D Antenna Pattern(Theta=90°)



2402 MHz 2441 MHz 2480 MHz

Min: -16 Scale: 2/div

Max: 2



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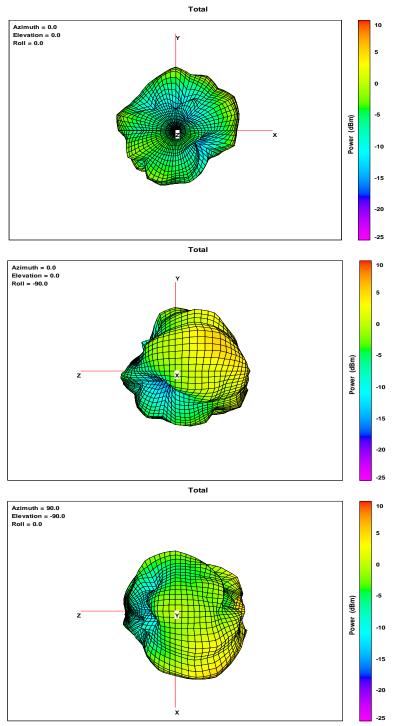
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8 3-D Antenna Pattern







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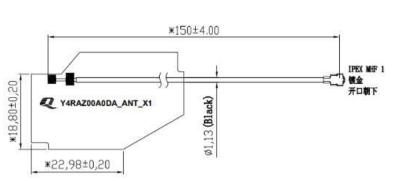
Rev.00

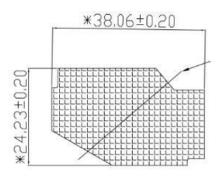
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The EUT and Test Configuration 9



Photo of EUT





Antenna Dimensions



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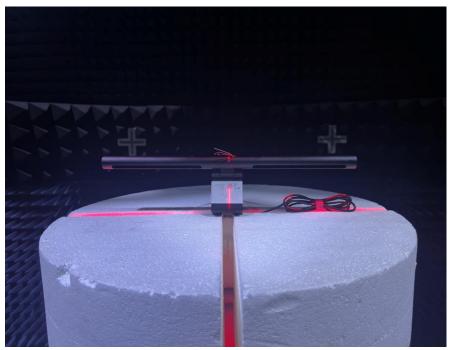


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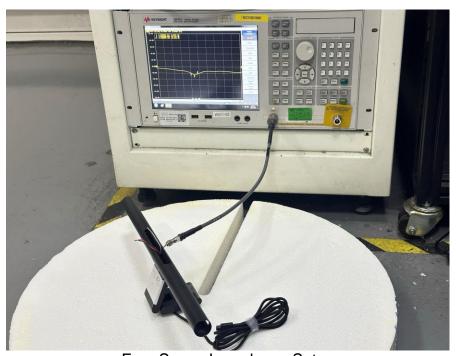
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Free Space View



Free Space Impedance Setup

---END---



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