

Antenna Test Report

Test Standard: IEEE 149-1979

Manufacturer: BAREBONES SYSTEMS, LLC.

Product Name: 2.4GHz Antenna

Model: LIV-222

Report No.: SSP24010065A

Tested Date: 2023-10-21

Issued Date: 2023-10-22

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Approved By: Lahm Peng (Manager)

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen ZRLK Testing Technology Co., Ltd.

1. General Information

1.1 Product Information

Manufacturer	
Manufacturer:	BAREBONES SYSTEMS, LLC.
Address of Manufacturer:	1215 East Wilmington Avenue – Ste. 140, Salt Lake City, UT 84106

General Description of Antenna	
Product Name:	2.4GHz Antenna
Model No.:	LIV-222
Frequency Range:	2400MHz-2483.5MHz
Type of Antenna:	FPCB Antenna
Antenna Gain:	0dBi (Max.)
Impedance:	50 ohm
Antenna View (115mm*15mm)	
	

1.2 Test Facilities

Testing Lab: Shenzhen ZRLK Testing Technology Co., Ltd.
All measurement facilities used to collect the measurement data are located at 1F, No. 35 Building, Changxing Technology Industrial Park, Yutang Street, Guangming New District, Shenzhen City, Guangdong Province, China

1.3 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2023-08-05	2024-08-04
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2023-07-31	2024-07-30
Amplifier	Agilent	8449B	3008A01520	2023-07-31	2024-07-30

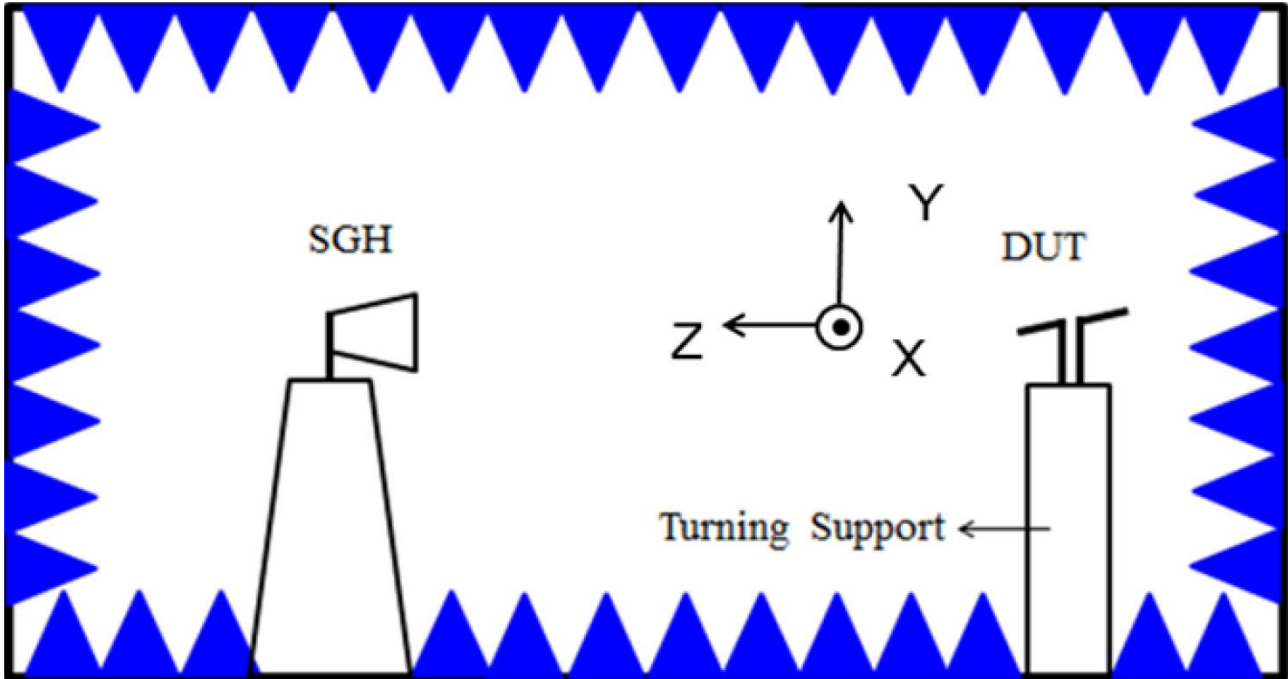
1.4 Measurement Uncertainty

Parameter	Conditions	Uncertainty
Radiated Emissions	1Hz ~ 6GHz	±3.38 dB

1.5 Test Methodology

All measurements contained in this report were conducted with standards IEEE 149-1979 for IEEE Standard Test Procedures for Antennas.

1.6 Test Setup



2. OTA Test

2.1 Gain

Frequency	Peak Gain (dBi)	Polarity
2402MHz	0	Horizontal
2402MHz	-0.67	Vertical
2441MHz	-1.22	Horizontal
2441MHz	-1.35	Vertical
2480MHz	-1.56	Horizontal
2480MHz	-1.78	Vertical

2.2 Radiation Pattern View

