

Regulatory BT Antenna Information

Platform information					
Brand	ODM	RMN	Intel platform <small>(ex: Yes, No or NA)</small>	Platform type <small>(ex: regular NB, convertible PC, AIO...etc)</small>	*SAR minimum separation (mm)
HP Inc.	Primax	TPN-C162K	Yes	Keyboard	0
****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection.					
Antenna information					
Vendor	Type	Antenna Part number			
Primax	PCB Antenna	651000048470			
Peak gain w/ cable loss (dBi)*					
BT - 2.4GHz					
2.91					
Module Information					
Model	Form factor and suffixes				
nRF52840	BT 5.1				

Antenna manufacturer: ZHUHAI JINZHAOFENG CIRCUIT BOARD CO LTD
Antenna manufacturer Address: plant 3, Sancun Area, Fushan Industrial, Park Zhuhai, Guangdong 519175 CHINA

Table of contents

1. Applicable test method
2. Test & System Description
 - a. Test setup
 - b. Equipment list

1. Applicable test methods

Measurement System Information

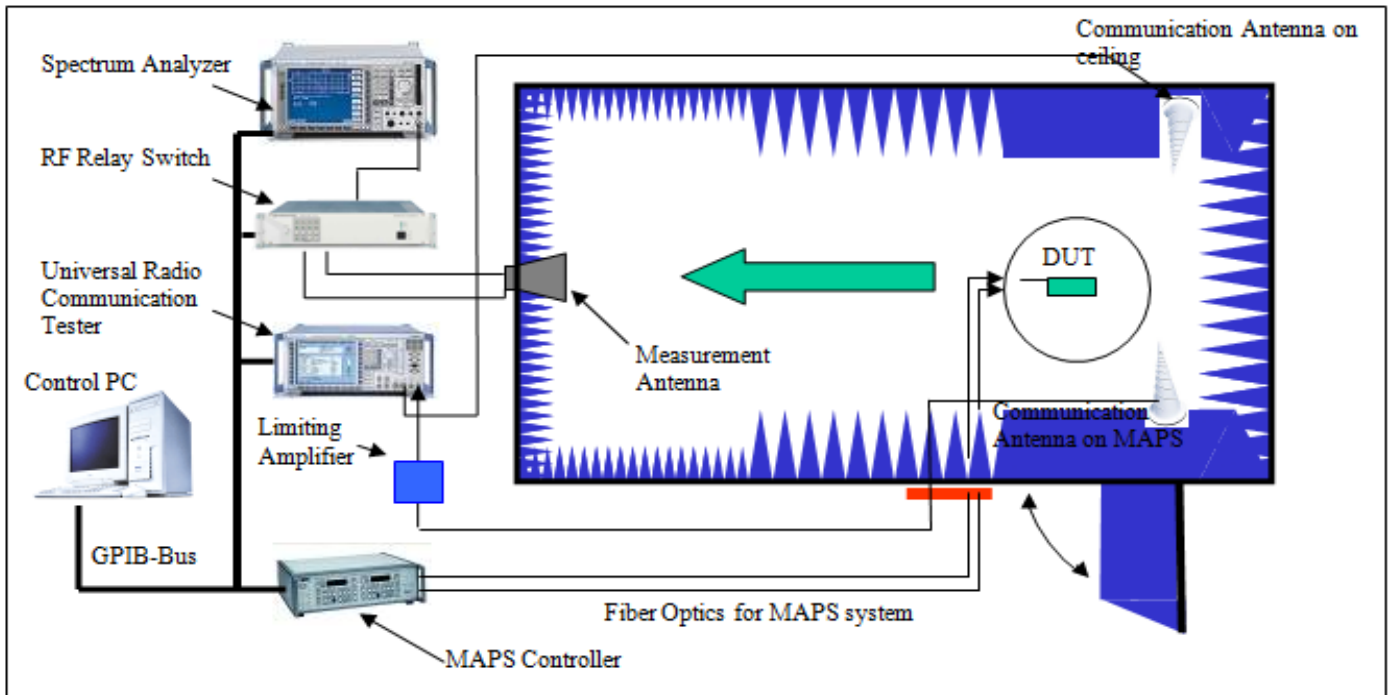
General Information

Testing Condition:

- Temperature: $25\pm 3^{\circ}\text{C}$
- Humidity: $<80\%$

Measurement Facility:

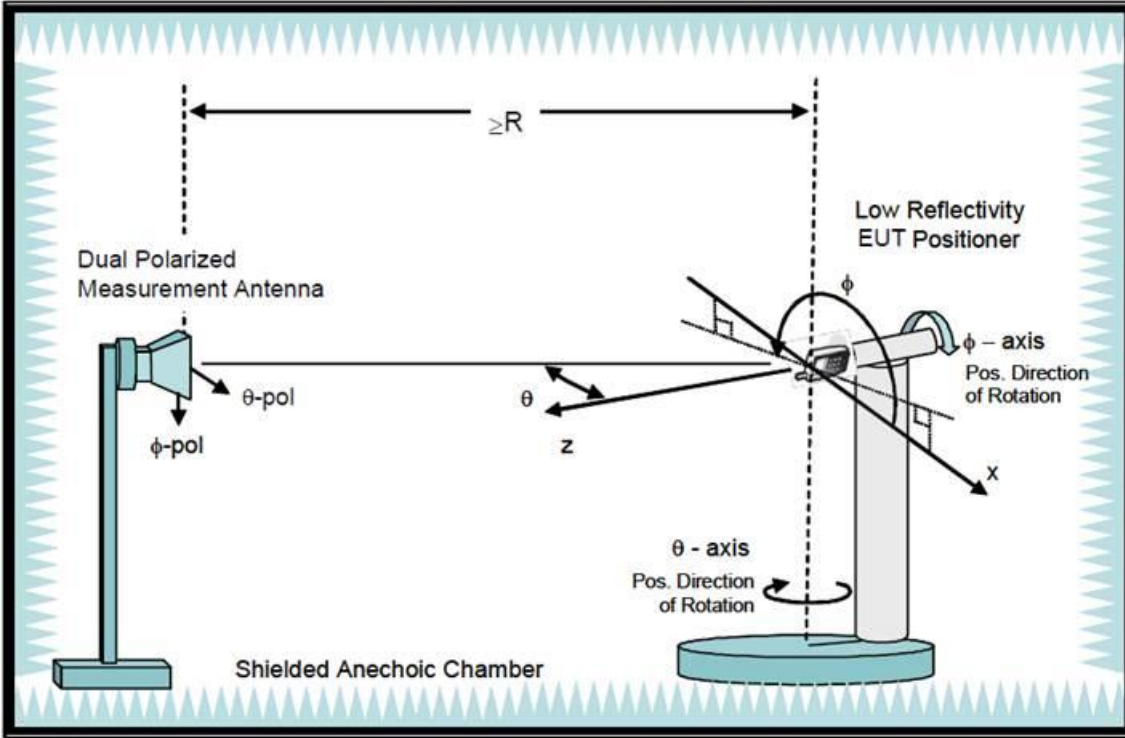
- Measurement Chamber: ETS-Lindgren 3D fully anechoic chamber and its measuring system (AMS-8500)
- Base Station Simulator: Agilent E5515C
- ETS-Lindgren EMCO-2090 Auxiliary Ports RF Relay Switches
- Spectrum Analyzer: Agilent N9010A
- Network Analyzer: Agilent E5071C



2. Test & System Description

a. Test setup

Typical Setup for ETS-Lindgren AMS-8500:



b. Equipment list

Equipment Description	Manufacturer	Identification no.	Current calibration date	Next calibration date
Network analyzer	Agilent	E5071C	2022/02/21	2023/02/20
Measurement software	ETS-Lindgren	EMQuest 1.14	N/A	N/A
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2115	N/A	N/A
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2110	N/A	N/A
MAPSTM controller	ETS-Lindgren	EMCO 2090	N/A	N/A
Horn antenna	ETS-Lindgren	3164-10	N/A	N/A

Note: Chamber calibration included full set of implement.

Antenna Information

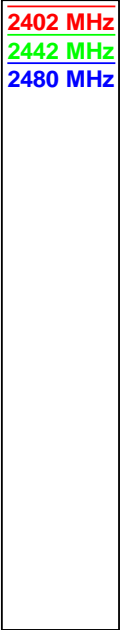
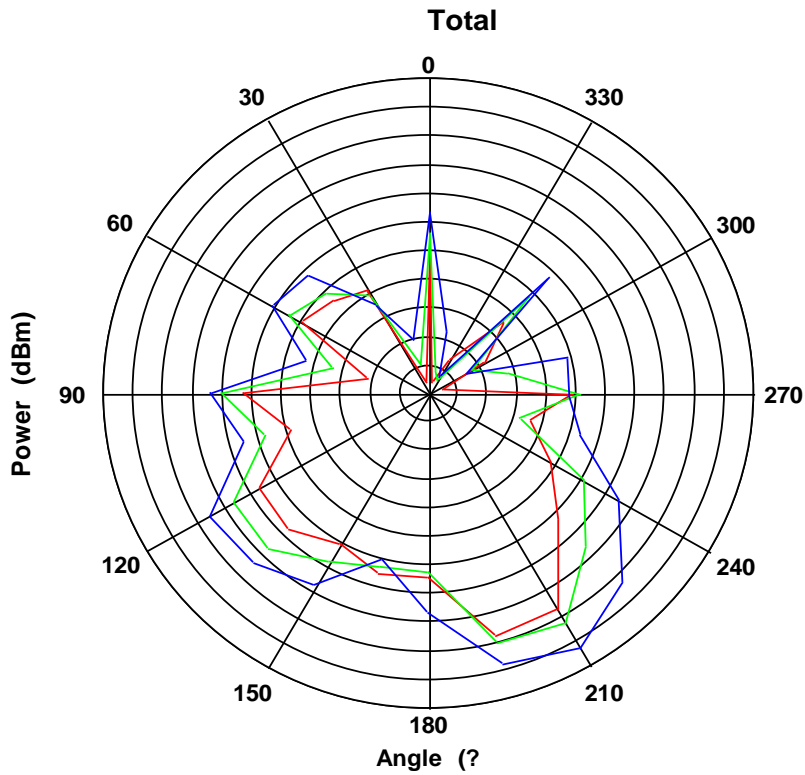
Section 1. Antenna Assembly Specifications

1A Antenna Part Number	1B Manufacturer	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E * Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G Max VSWR	1H Cable Loss (dB)
P/N: 651000048470	Primax	PCB antenna	N/A	2402	1.41	N/A	1.386	N/A
				2442	1.66	N/A	1.1234	N/A
				2480	2.91	N/A	1.218	N/A

Section 3. Radiation characteristics of antenna loaded in Host Platform

Max Antenna 2D Radiation Pattern 2402 MHz

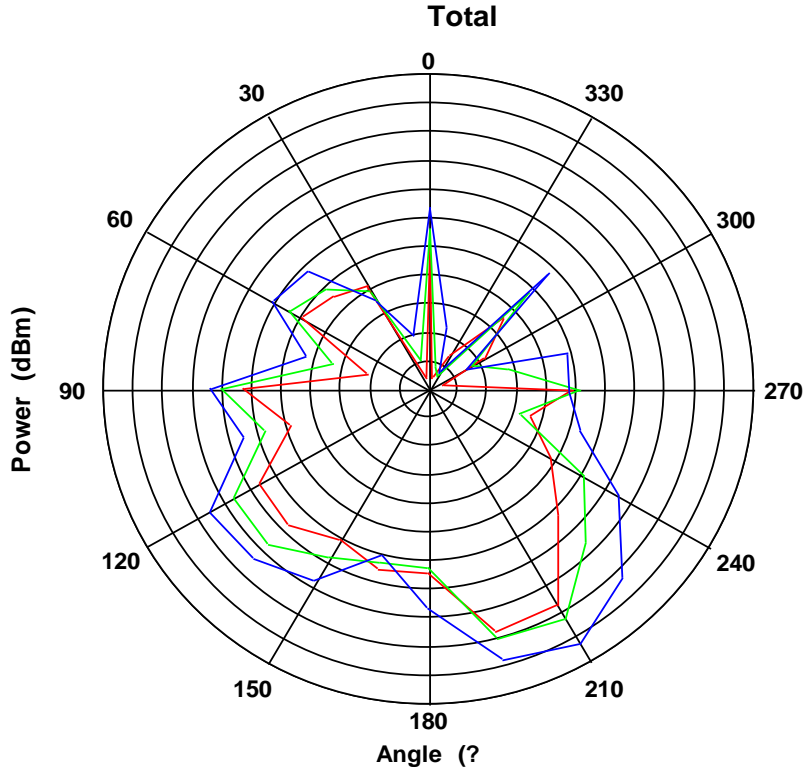
Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
2402	1.41



Max: 0
Min: -11
Scale: 1/div

Max Antenna 2D Radiation Pattern 2442 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
2442	1.66

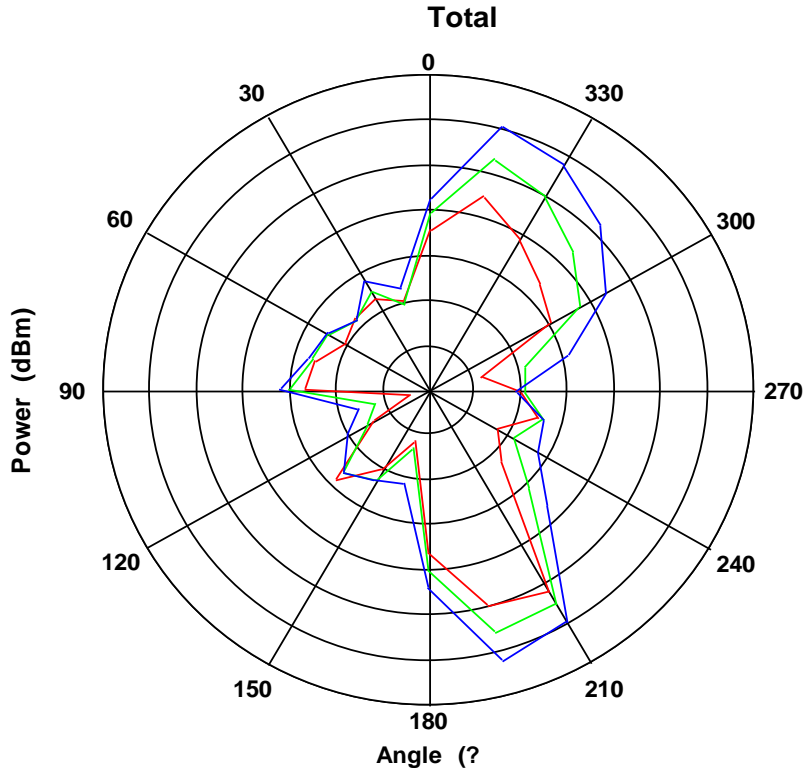


2402 MHz
2442 MHz
2480 MHz

Max: 0
Min: -11
Scale: 1/div

Max Antenna 2D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
2480	2.91



2402 MHz
2442 MHz
2480 MHz

Max: 4
Min: -10
Scale: 2/div