



VP7200 Bluetooth Antenna

Test Report

Tester: Advanced Ceramic X Corp.

Date: 2022/07/27

1. VP7200 BLE antenna gain

VP7200 Bluetooth uses AT3216-A2R4PAB multilayer chip antenna. The antenna gain test result is as the Gain Table.

Gain Table

Unit in dBi @2440MHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
AT3216-A2R4PAB	-3.4	-5.5	-3.3	-7.4	-1.6	-4.6	30.0%

2. VP7200 test setup



3. Test setup and result

3.1 Test equipment

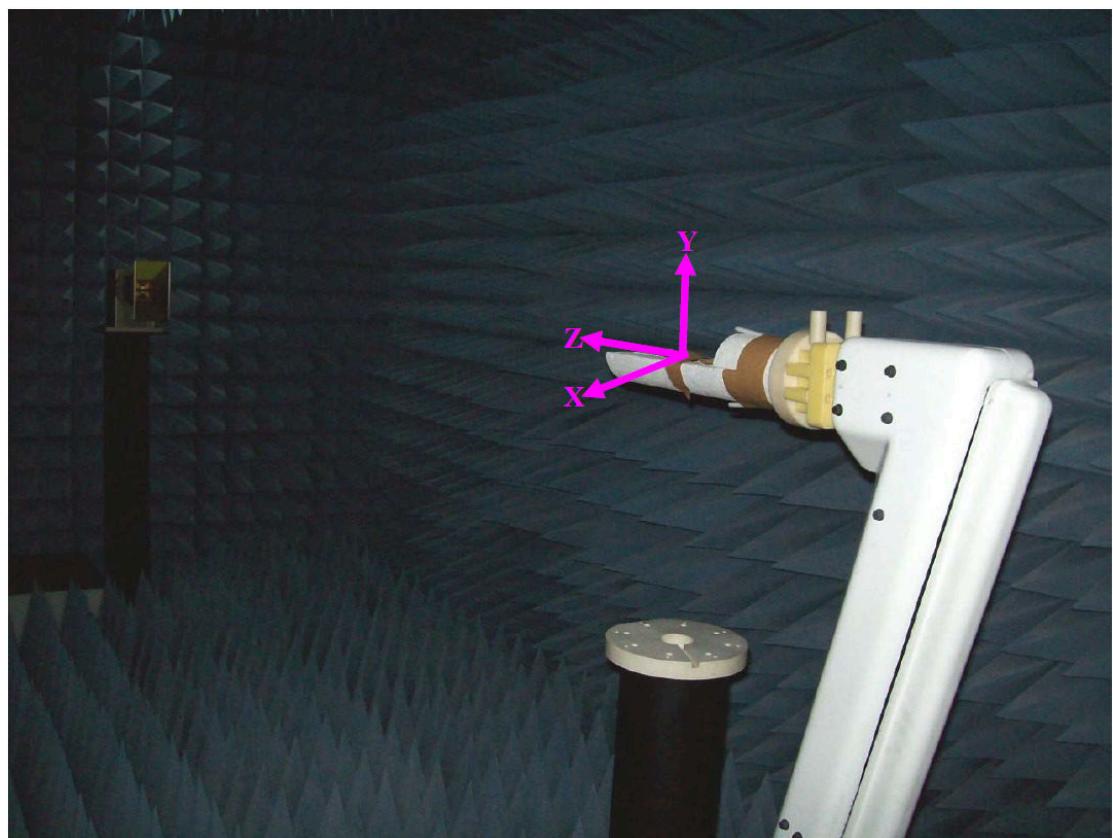
- Return loss and VSWR:
 - Equipment: vector network analyzer – AG
 - Calibration method: open/short/load –Cal. Kit 85052D
- 3D Radiation Pattern:
 - NSI 800F-10 Far Field antenna measurement system

3.2 AT3216-A2R4PAB Return Loss



3.3 Antenna Pattern test

3.3.1 3D Radiation Pattern coordinates

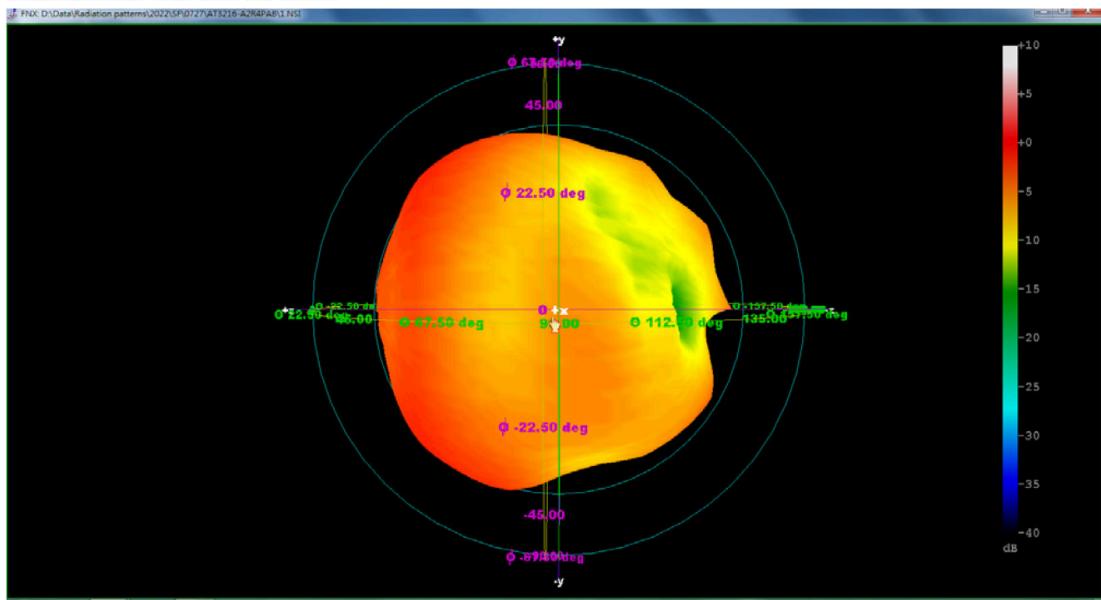


3.3.2 Plane definition

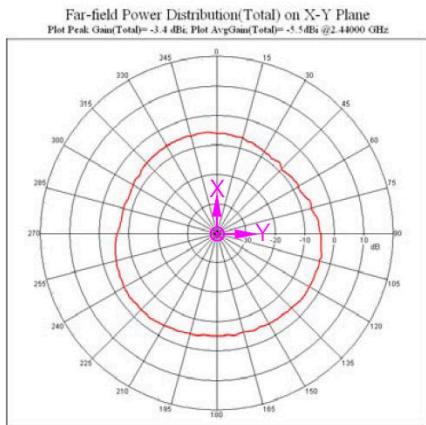
XY-plane	Theta=90°
XZ-plane	Phi=0°
YZ-plane	Phi=90°

3.3.3 3D antenna pattern result

AT3216-A2R4PAB



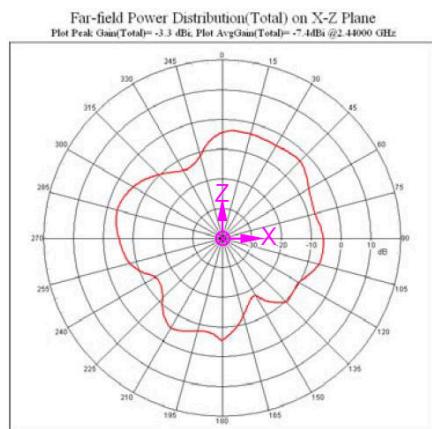
◆ XY-plane



Unit : dBi

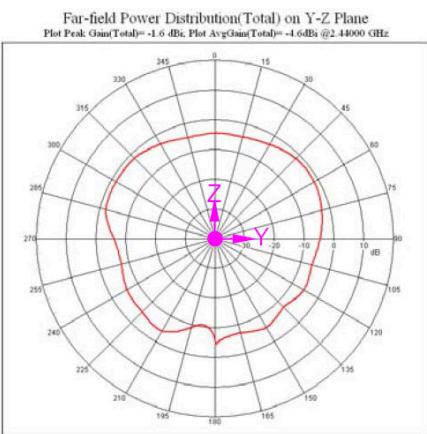
	Peak gain	Avg. gain
XY-plane	-3.4	-5.5

◆ XZ-plane



	Peak gain	Avg. gain
XZ-plane	-3.3	-7.4

◆YZ-plane



	Peak gain	Avg. gain
YZ-plane	-1.6	-4.6