

EX Case G2

Antenna Report

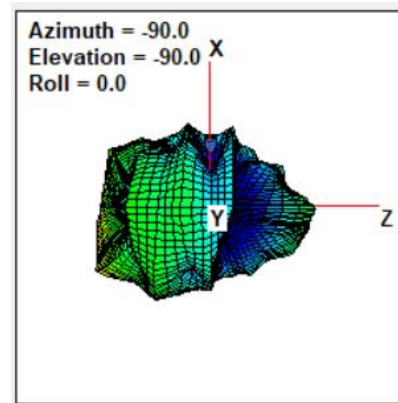
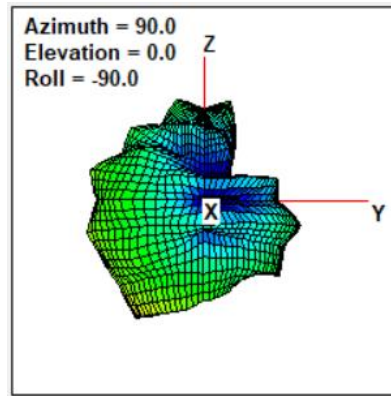
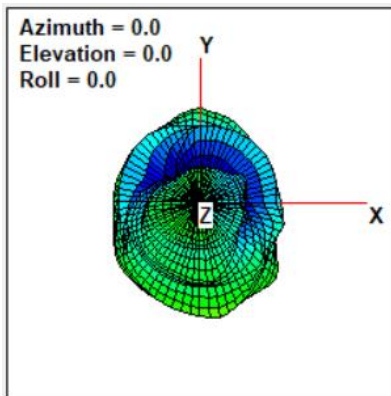
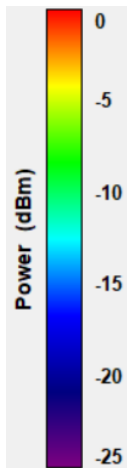
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Prepared by : Merry EE

Date : 2024.10.18

Antenna Radiation Characteristics

	Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
DV1 Build	2402	-9.88	10.29	-2.1
Earbud R	2441	-9.53	11.14	-2.2
Antenna	2480	-9.38	13.5	-3.1



Antenna Info.

- Type : PCB antenna
- Dimension : 13mm*5mm

- Antenna specifications

Frequency range: 2.4GHz-2.4835GHz

Antenna type: PCB antenna

Connectors: N/A

Input Impedance : 50Ω

Standing-Wave Ratio : 2:1

Antenna Gain : -2.1 dBi

Polarization : Linear polarization

Test Information

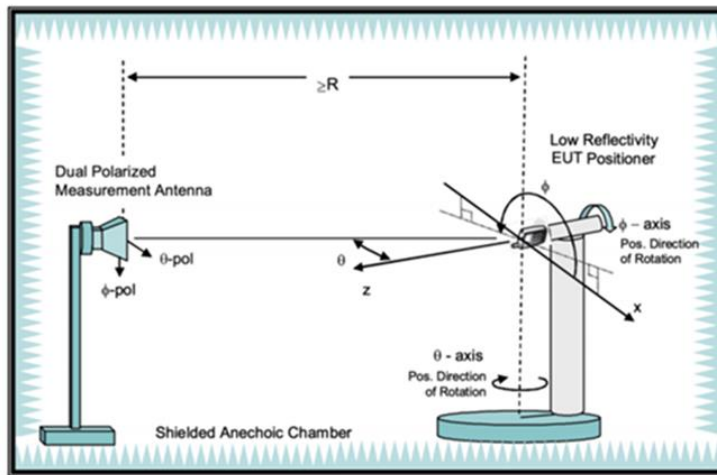
- Test date: 2021/06/21
- Table Lab: Bureau Veritas
Address: B2, No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 23143, Taiwan
- Test personnel: Oscar Chu
- Test Chamber: ETS-lindgren_AMS-8500 rectangular anechoic chamber,
Calibration Date: 2020/10/16
- Table of Calibrated Equipment: E5071C ENA Vector Network Analyzer Keysight,
Calibration Date: 2021/03/25
- Commercial software being used: ETS-Lindgren EMQuest

Test method

The antenna gains are obtained through measurements in a fully anechoic OTA chamber with a 3D positioner.

Measurements are taken in discrete steps in theta and phi direction. Data is being recorded using a network analyzer (passive) for both theta and phi polarizations at each position resulting in a 3D gain pattern.

Gain is derived directly through spatial averaging of VNA S21 measurements (passive measurement).



The anechoic chamber is a standard AMS-8500 rectangular anechoic chamber designed and built by ETS-Lindgren with the following nominal dimensions

Rectangular Test Region:

Length: 7.32 m (24 ft)

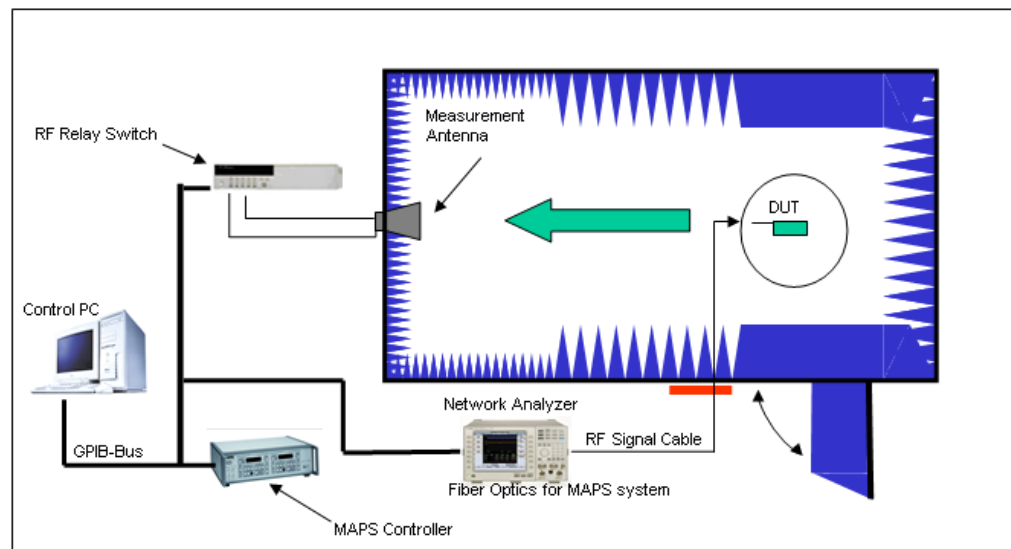
Width: 3.66 m (12 ft)

Height: 3.66 m (12 ft)

Turntable height: 1.45 m

Measurement antenna height: 1.75 m

Measurement distance: 4.860 m



Thank You

Delivering Fidelity Sound to Enrich Human's Life



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