



Vivint Moab Z-Wave Antenna Specifications

Address : 20 Park Avenue II (or Yuanchiu 2nd Rd.), Hsinchu Science Park, Hsinchu 300, Taiwan



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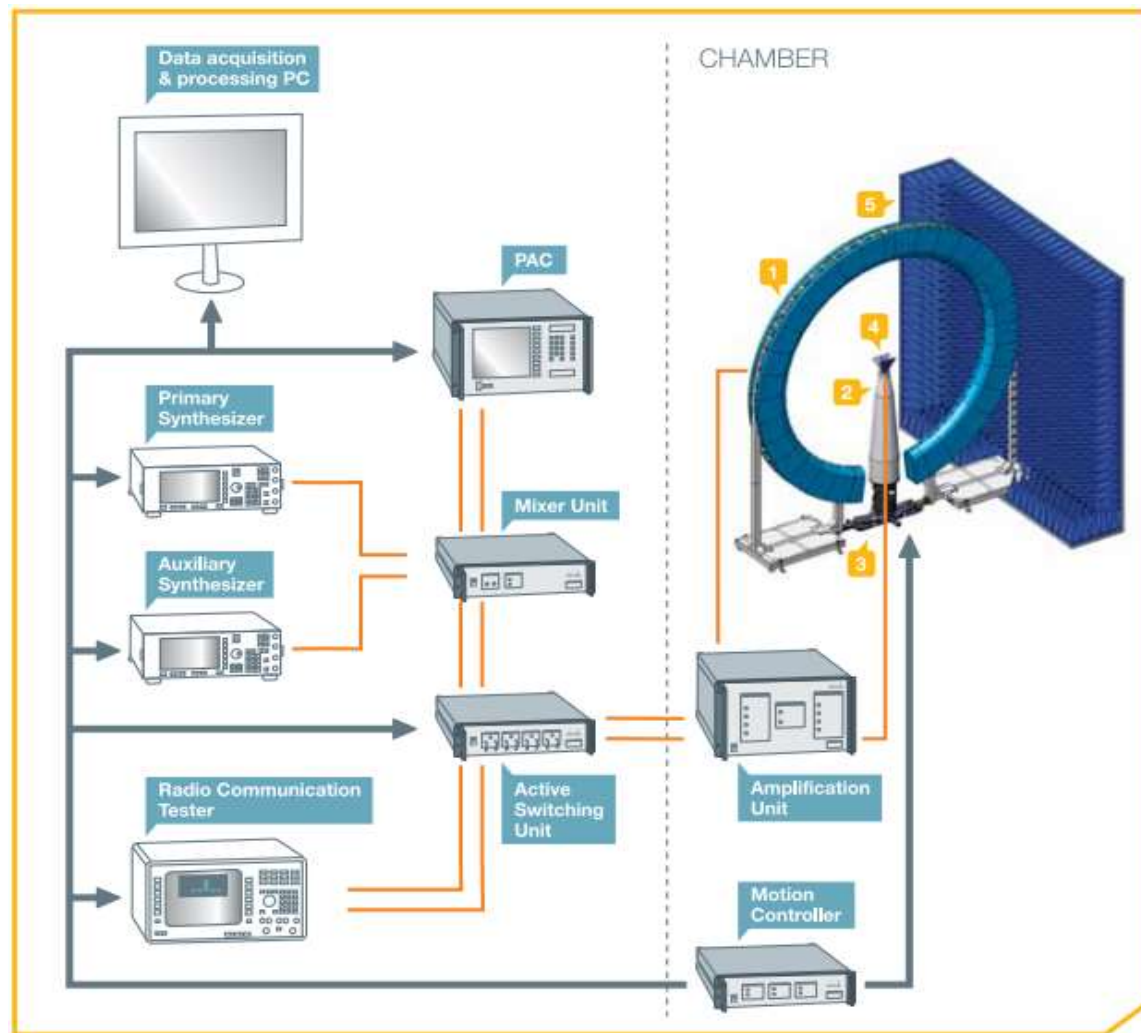


Change List

Version	Date	Description
1.0	03/04/2025	New Release
1.1	04/01/2025	Add 912, 920MHz data

Test Setup

- SG64 Diagram :



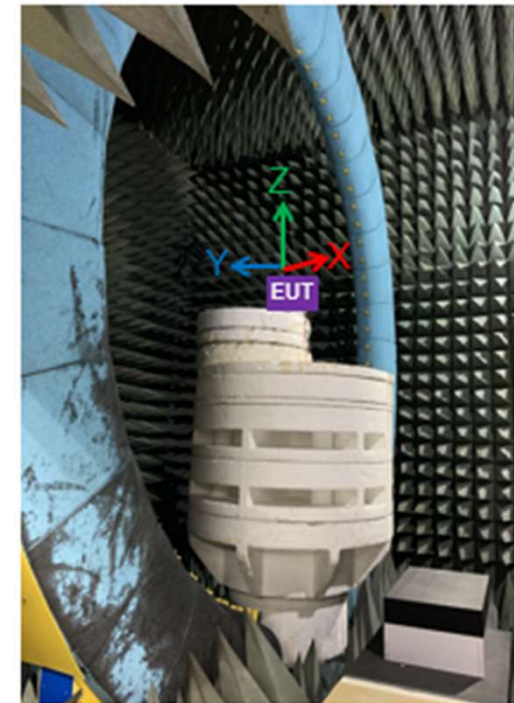
Test Setup

- SG64 Equipment :

Device	Type/Model	Serial#	Manufacturer	Calibrated Date	Calibrated Until
SG64 Chamber	Standard	SG64	MVG	2024/07/12	2025/06/30
Turn Table	Customization	-	Machinery Dept.	2024/07/12	2025/06/30
Probe Array Controller	N/A	1102341-4535	MVG	2024/07/12	2025/06/30
Power Supply Unit	N/A	1103211-13204	MVG	2024/07/12	2025/06/30
Active Switching Unit	N/A	1102347-7214	MVG	2024/07/12	2025/06/30
TX Amplification Unit	N/A	1102527-5909	MVG	2024/07/12	2025/06/30
RX Amplification Unit	N/A	1102536-3823	MVG	2024/07/12	2025/06/30
Transfer Switching Unit	N/A	1102183-3351	MVG	2024/07/12	2025/06/30
Mixer Unit	N/A	1102545-7208	MVG	2024/07/12	2025/06/30
Power And Control Unit	N/A	1102706-7209	MVG	2024/07/12	2025/06/30
Antenna Probe	DP 400-6000	-	MVG	2024/07/12	2025/06/30
Cable 13.7m 400MHz to 18GHz	SS402	00100A1F5A1XXS	Woken	2024/07/12	2025/06/30
Temperature & Humidity Meter	HTC-01	-	METRAVI	2024/07/12	2025/06/30

Test Setup

- Measurement procedure
 1. Put DUT on test table.
 2. Connect the coaxial cable to DUT.
 3. Record power from DUT antenna with test SW.
 4. Finish all power measurement from other grids.
 5. Output the test data for PC data management.



Test Result

- Test result, as follow:

Product model	Antenna	Z-Wave			
	Band	908MHz	912MHz	916MHz	920MHz
Moab	Efficiency (%)	57.9	58.2	58.1	57.7
	Peak Gain (dBi)	2.1	2.04	2.05	2.06

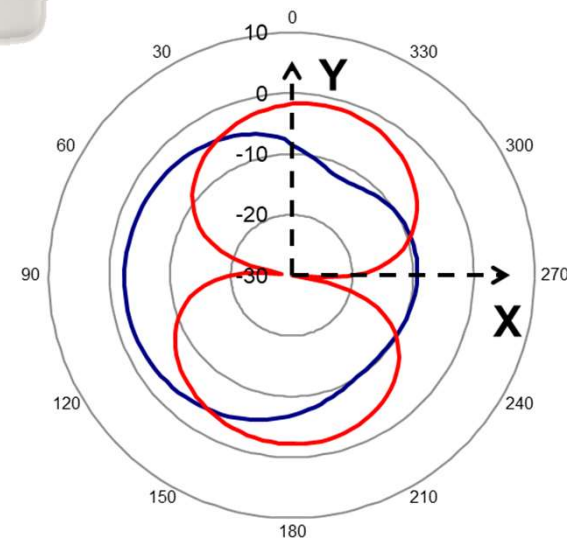
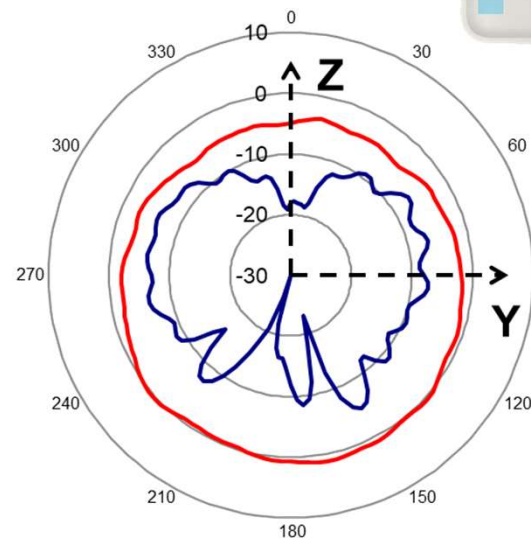
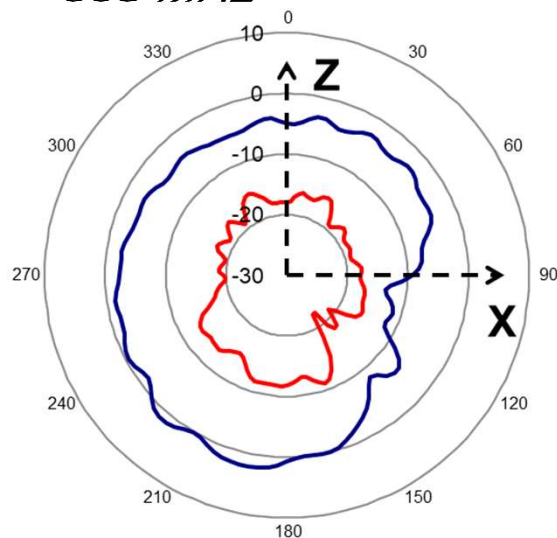
- Test Date: 2024/11/15
- Test tester: Wentsan Chung
- Antenna notes
 - Type : PIFA
 - Part Number : WHVH1

- Z-Wave Antenna Drawing

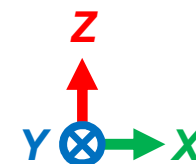
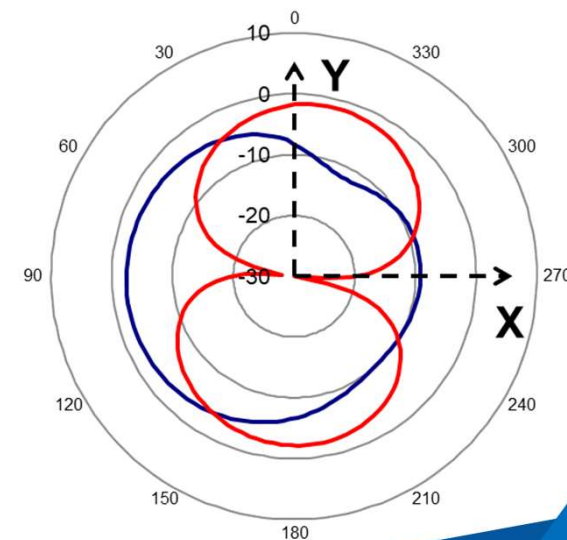
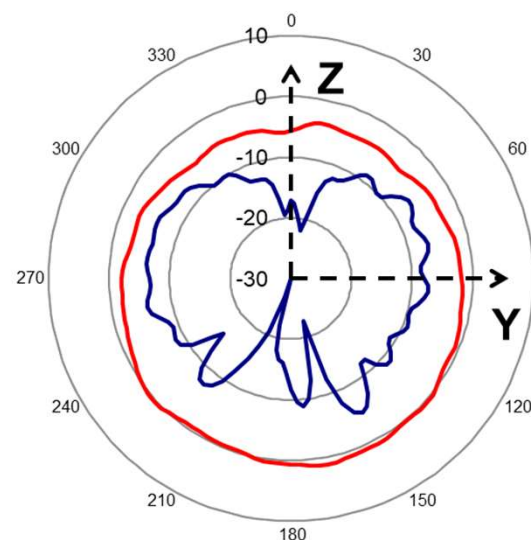
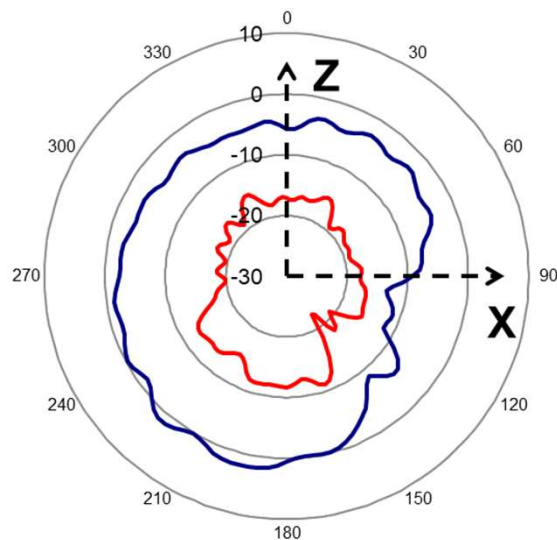
Please see the photo as the file name: antenna photo.

Radiation Pattern

● 908 MHz



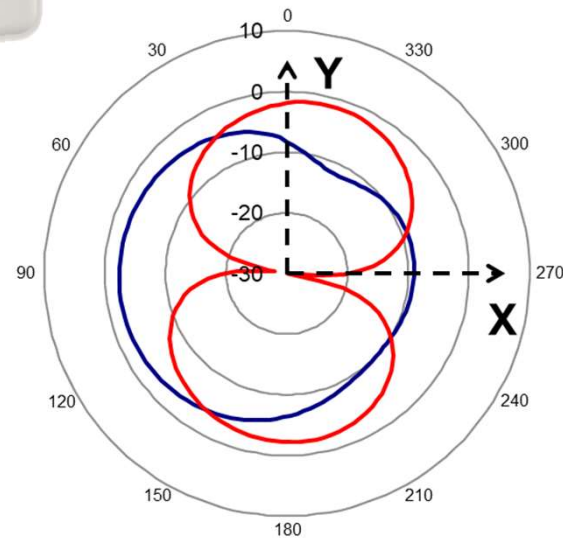
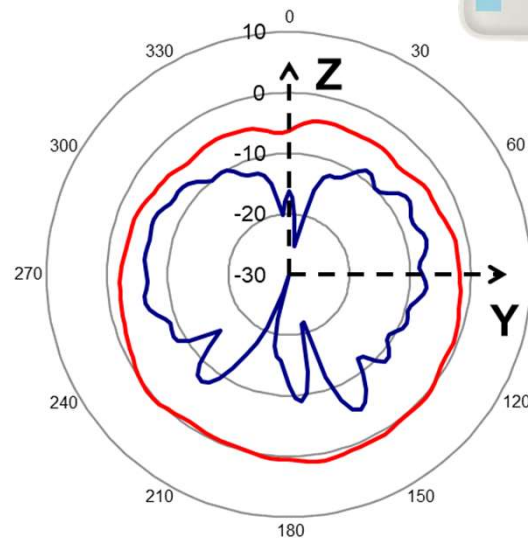
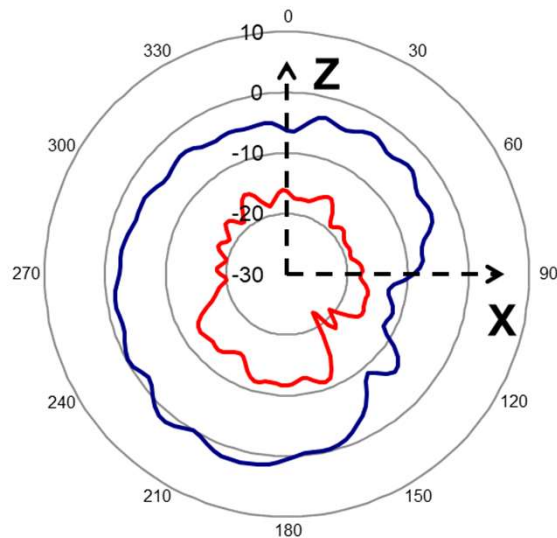
● 912 MHz



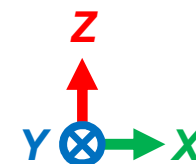
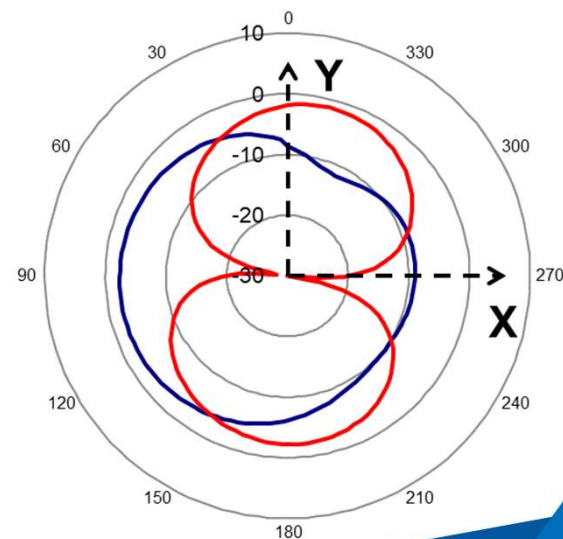
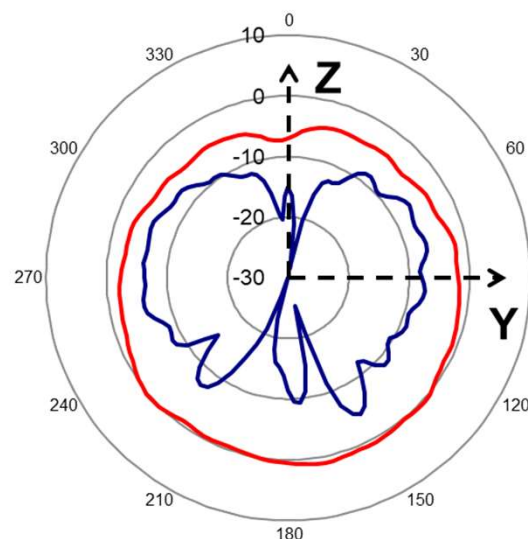
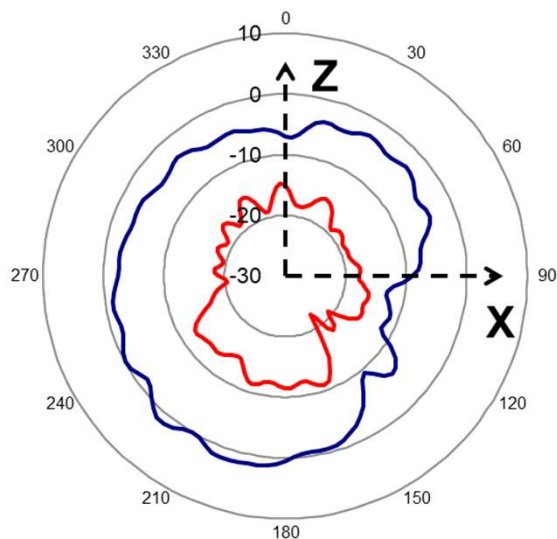
— V-Pol.
— H-Pol.

Radiation Pattern

● 916 MHz



● 920 MHz



— V-Pol.
— H-Pol.

WNC

Wistron NeWeb Corp.

