



金偉德 Pudding

Engineer :Ting

Report date : 2023/10/06 REV.01

Test Antenna part number : ARY196-3553-006-00



Revision History

Revision	Date	Engineer	Description
01	2023/10/06	Ting	New Release

Antenna Specification

ARY196-3553-006-00

	Specification	Specification
Frequency(GHz)	2.4~2.5	5.15-5.85
Bandwidth	100MHz (Min.)	700MHz (Min.)
Return Loss	10 dB (Max)	10 dB (Max)
Polarization	Linear	Linear
Azimuth Bandwidth	Omni-directional	Omni-directional
Peak Gain	1.84dBi (Max)	4.1dBi (Max)
Impedance	50Ω	50Ω
Material	FPC	FPC
Maximum Power	1W	1W
V.S.W.R	2 : 1	2 : 1
Radiation	Omni directional	Omni directional
Efficiency	44%(Max.)	67%(Max.)
Connector	MHF 4	MHF 4
Cable type	OD:1.13	OD:1.13
Operating Temperature	-10~60°C	-10~60°C
Storage temp	-10~70°C	-10~70°C

Antenna photo



Antenna Measurement Vector Network Analyzer

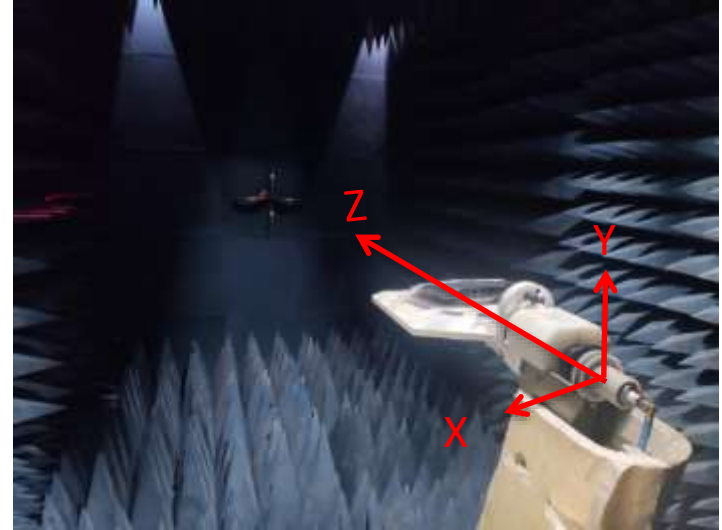
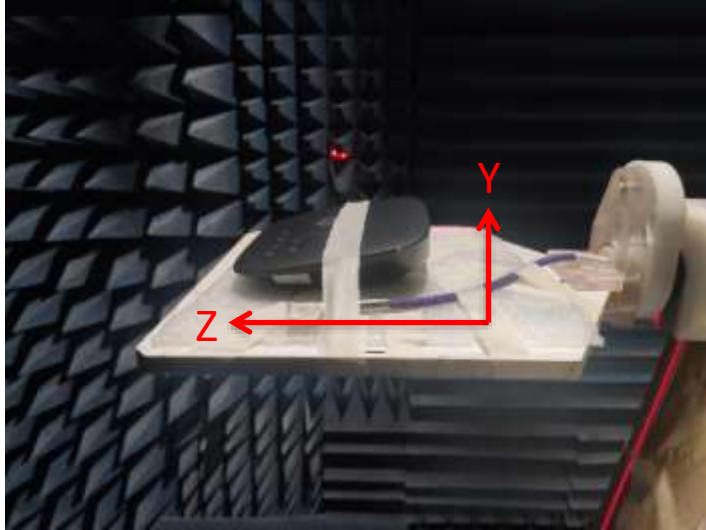
Return Loss



Frequency (MHz)	2400	2450	2500	5150	5600	5850
dB	22.7	15.1	10.5	16.3	15.2	14.6

The antenna anechoic chamber measurement

Chamber measurement photo



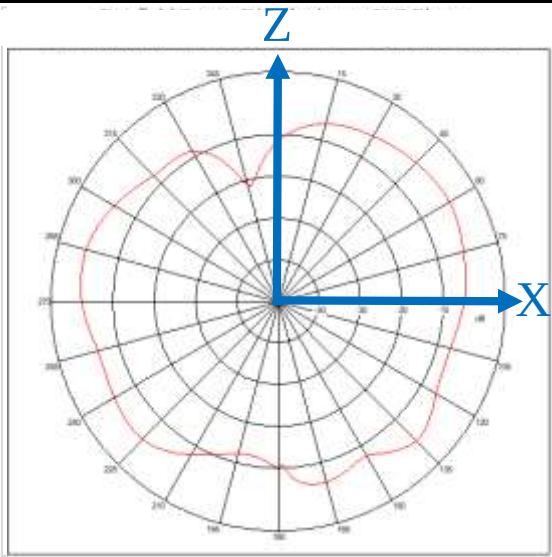
3D Gain Total

Freq(GHz)	Gain(dBi)	3D-avgGain(dBi)	Efficiency(%)
2.4	0.79	-4.67	34
2.45	1.84	-3.6	44
2.5	0.27	-5.06	31
5.15	4.23	-1.76	67
5.25	4.01	-1.83	66
5.35	3.4	-1.91	64
5.47	3.71	-2	63
5.6	3.67	-2.11	62
5.725	3.6	-1.81	66
5.785	4.1	-1.93	64
5.85	3.64	-2.14	61

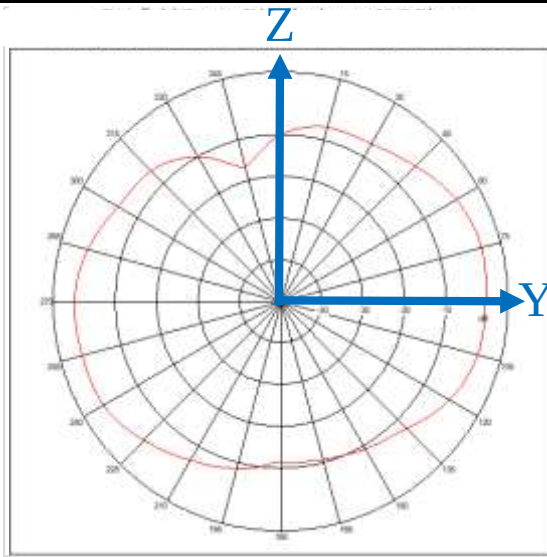
Antenna Pattern

Frequency : 2450MHz

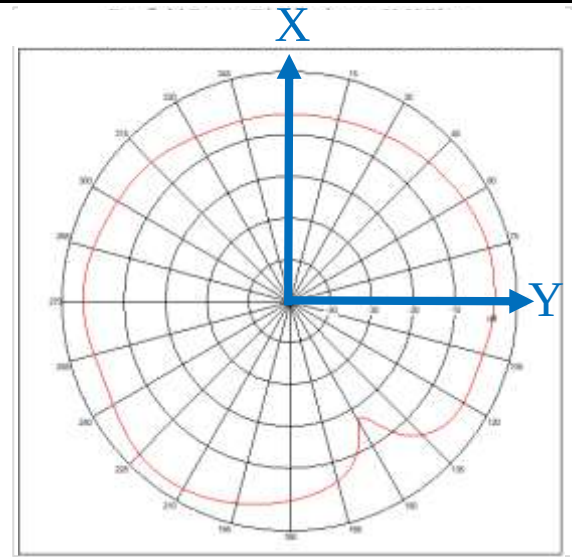
XZ-plane



YZ-plane



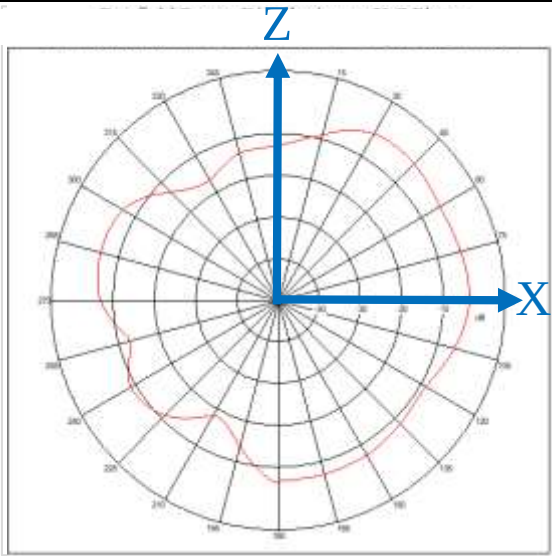
XY-plane



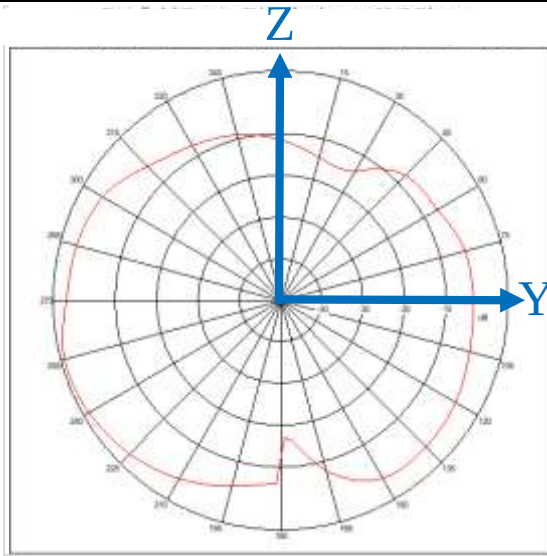
Antenna Pattern

Frequency : 5600MHz

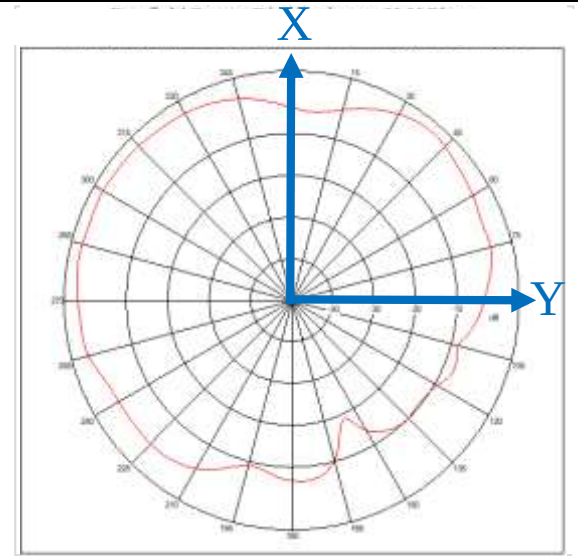
XZ-plane



YZ-plane



XY-plane



Genwelled technology Corp.

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