Doc - No	ALDSBA145EU

SPECIFICATION

Product Name	INTENNA
Specification	ALDSBA145EU
Model Name	SM-A145F
SEC CODE	GH42-06961A
Weight	6.43g
Special Specification	WiFi(2GHz / 5GHz)
Classification	Sub
Form of Production	LDS
REVISION	Ver_0.1
production company	P A R T R O N

MSL	LEAD FREE	Halogen Free
MSL LEVEL 1		

Drafter	Examination (Structure)	Examination (Passive)	Examination (Quality)	Admission
H.S.SHIN	**C.Y.Lee**	**C.S.Kim**	**H.S.J**	**C.I.JEON**
Shin Hyun Seok	Lee Chang Yeop	Kim Chung Soo	Jeon Hyo Sang	Jeon Chan Ik

- Contents -

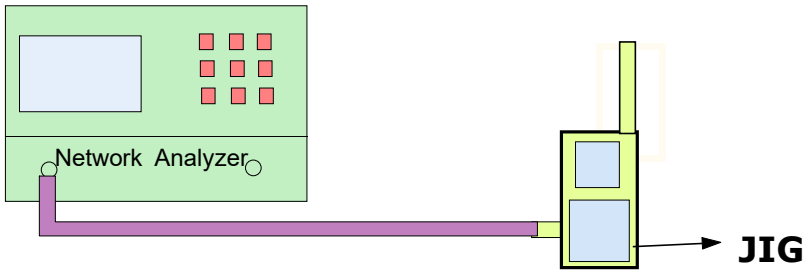
1. Revision history

Revision no.	Originator	Description of changes	Date of changes
Ver_0.1	Shin Hyun Seok	Initial release	2022.11.03

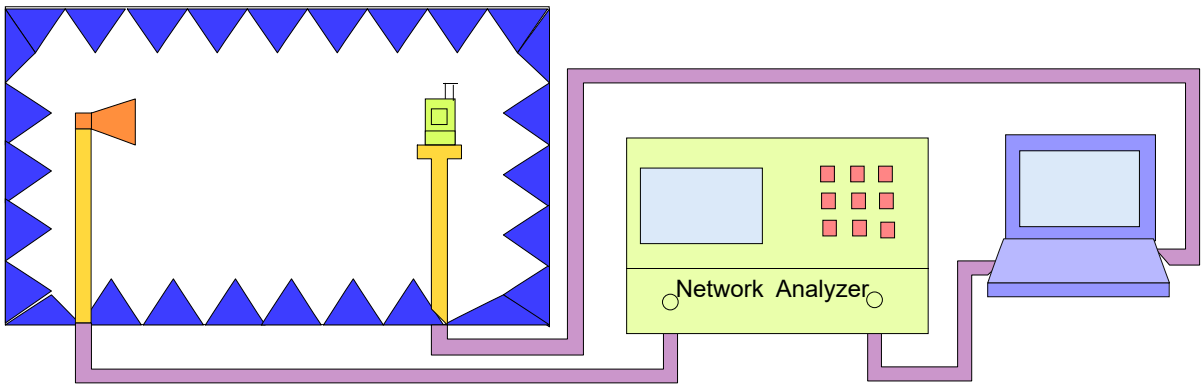
2. Making Measurements

Connect the device under test and required test equipment (Network analyzer). Measuring VSWR and frequency. Measurements include the magnitude and phase of both the vertical and horizontal components of the 3-D antenna pattern of actual hardware in an anechoic chamber (Partron). all measurements are made with antennas installed.

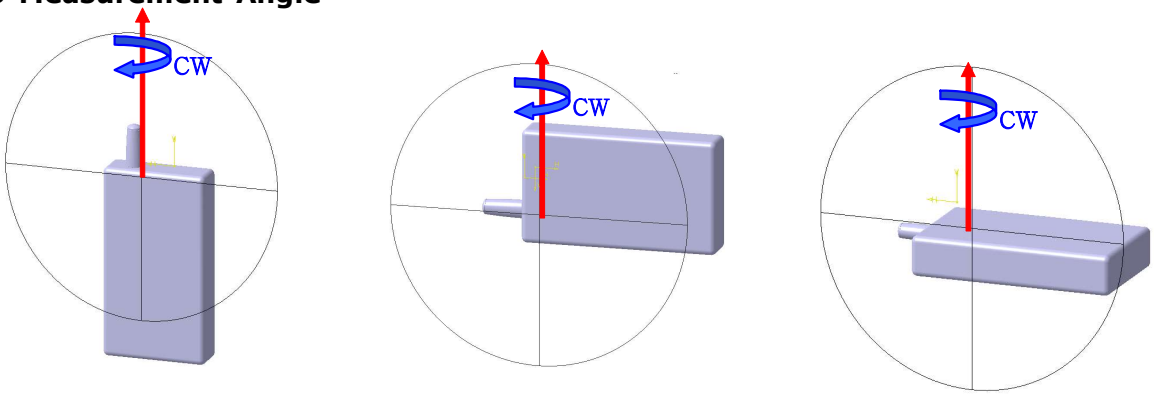
2.1 Frequency, VSWR Measurement



2.2 Gain Measurement



2.3 Measurement Angle



Azimuth Plane | Elevation 1 Plane | Elevation 2 Plane

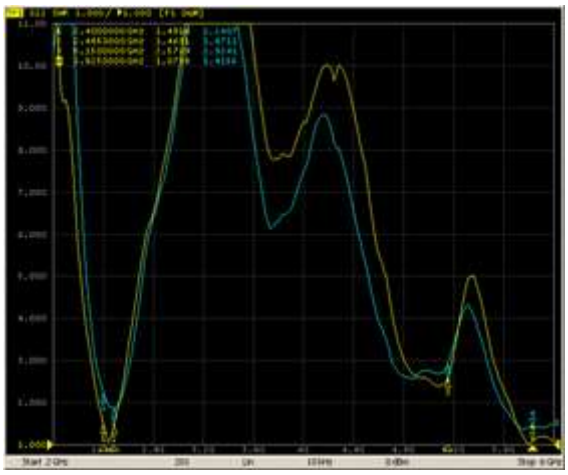
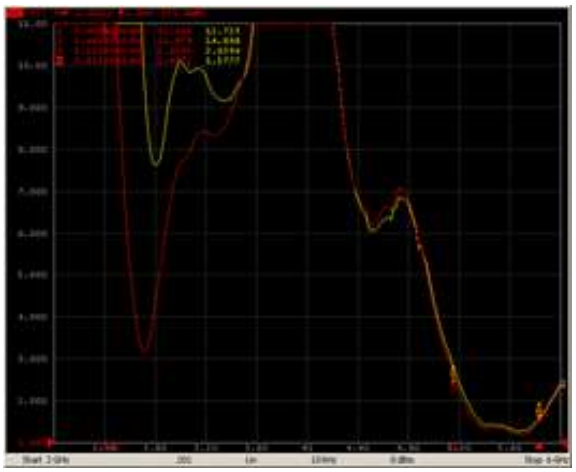
- Co-Polarization, Cross-Polarization Meaning
- Co-Polarization : When Radiated Vertical and Horizontal Polarization in Source Ant. Co-Polarization is Higher Polarization that is Ave. Gain Value
- Cross-Polarization : When Radiated Vertical and Horizontal Polarization in Source Ant. Co-Polarization is Lower Polarization that is Ave. Gain Value

3. Electrical Specification

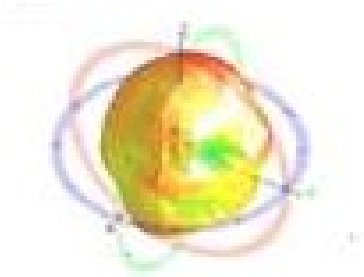
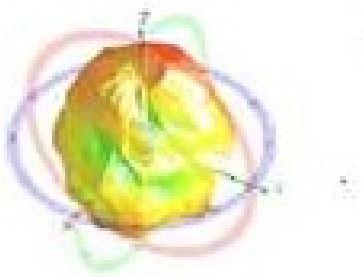
3.1 VSWR & POLARIZATION

FREQUENCY	WiFi			
	2400 MHz	2485 MHz	5150 MHz	5825 MHz
VSWR	2.24	1.87	2.83	1.57
Impedance	50 ohm			
Polarization	Vertical			
Radiation pattern	Isotropic			

3.2 SET VSWR

		WiFi
VSWR	2.4Ghz	
	5GHz	

3.3 Radiation pattern & Gain

<table>
<tr><td>BAND</td><td colspan="4">WiFi</td></tr>
<tr><td rowspan="6">2400
2485
MHz</td><td colspan="2">  </td><td rowspan="6">5150
5825
MHz</td><td colspan="2">  </td></tr>
<tr><td>Avg[dBi]</td><td>Peak[dBi]</td><td colspan="2">Avg[dBi]</td><td>Peak[dBi]</td></tr>
<tr><td rowspan="4">-5.06</td><td rowspan="4">-4.51</td><td>5150~5250</td><td>-5.40</td><td>-4.87</td></tr>
<tr><td>5250~5350</td><td>-4.55</td><td>-4.04</td></tr>
<tr><td>5470~5725</td><td>-3.61</td><td>-3.11</td></tr>
<tr><td>5725~5875</td><td>-3.36</td><td>-2.98</td></tr>
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