PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.

WIC211S Antenna Passive Review P/N: WA-M-LA-02-081

Antenna type: PIFA CABLE ANTENNA

INPAQ Technology Co., Ltd.

Last updated in 2022.9.14



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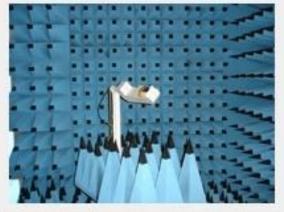


TEST EQUIPMENT

Chamber outside



Chamber inside 1



Chamber inside 2



Network Analyzer



Network analyzer		Anechoic Chamber		
Maker	MODEL	Maker	SIZE	Testable Frequency
Agilent	5071B ENA	мтс	3m *3m * 6m	0.4GH ~ 6GHz
НР	HP8753E			

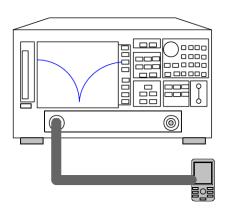
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Measuring Process

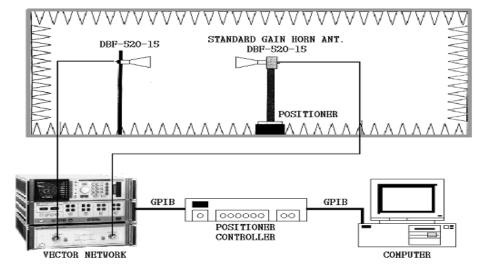
DUT Test method

- 1. After attaching the antenna to the DUT, connect the coaxial cable to the DUT board.
- After calibrating the network analyzer, connect the coaxial cable connected to the DUT to the port. (DUT must be tested on a non-conductive table for measurement.)
- 3. Connect the coaxial cable connected to the DUT to the Network Analyzer port.
- 4. Set the Point Marker to the corresponding frequency band.
- 5. Test: Smith Chart & VSWR



Chamber test method

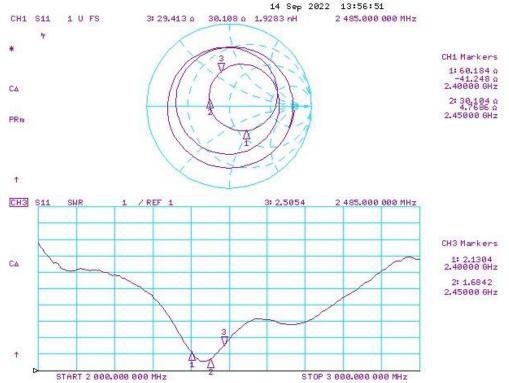
- 1. The antenna is tested while mounted on the terminal.
- 2. The antenna is tested in an anechoic chamber.
- 3. Place the dipole antenna or horn antenna face-to-face in the chamber system to
- 4. Execute the software and perform calibration.
- 5. Remove the dipole antenna or horn antenna on the positioner side and fix the terminal to be measured there.
- 6. Run the chamber software.
- 7. Check the data after measurement.





VSWR & Smith Chart / 3D Gain data

[Smith Chart & VSWR]



[3D Gain data]

Freq.[MHz]	Eff.[%]	Avg.[dBi]	Peak[dBi]
2400	25.06	-6.01	0.77
2415	26.35	-5.79	1.04
2430	24.36	-6.13	0.7
2450	25.95	-5.86	1.03
2460	27.32	-5.64	1.34
2480	21.66	-6.64	0.55
2485	22.87	-6.41	0.81

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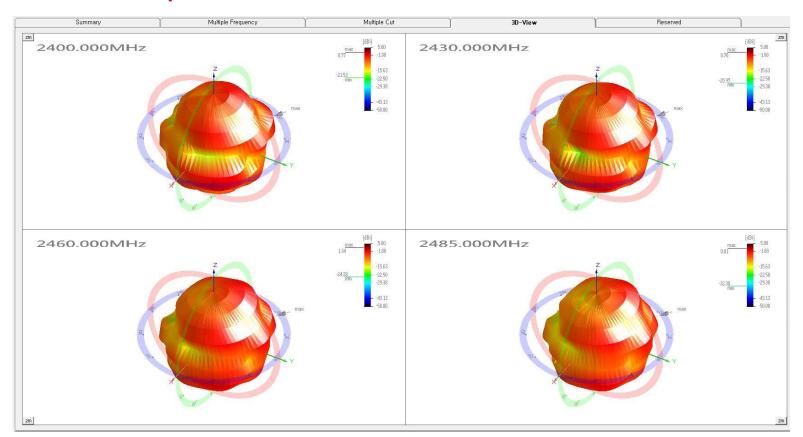
2D Radiation Pattern & Gain



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3D Radiation pattern







Thank you

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