

Antenna Specifications		DATA	2009-11-03	REV.	IR
MODEL	Her shey(Main)	TYPE	Fixed	PAGE	1/16

ANTENNA SPECIFICATION

ace antenna A

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1. Technical Items

1.1 Electrical Spec.

Electrical Spec.	
Impedance (Nominal)	50 ohms
Polarization	VERTICAL
Radiation Pattern	OMNI-DIRECTIONAL
Maximum Power	2 Watts

1.2 Mechanical Spec.

Mechanical Spec.	
Connector	SCREW TYPE (SMA MAIL)
Overall length	See drawing
Operation Temperature	-30℃ ~ +80℃
Weight	7.10g

1.3 Packing Spec.

Packing Spec.		
PRODUCT	QUALITY	MATERIAL
TRAY	1/50 EA	P.S (0.8t)
INNER PAD	1/800 EA	SW 2 type
CARTON BOX	1/1,000 EA	DW 2 type (AB corrugated paper)

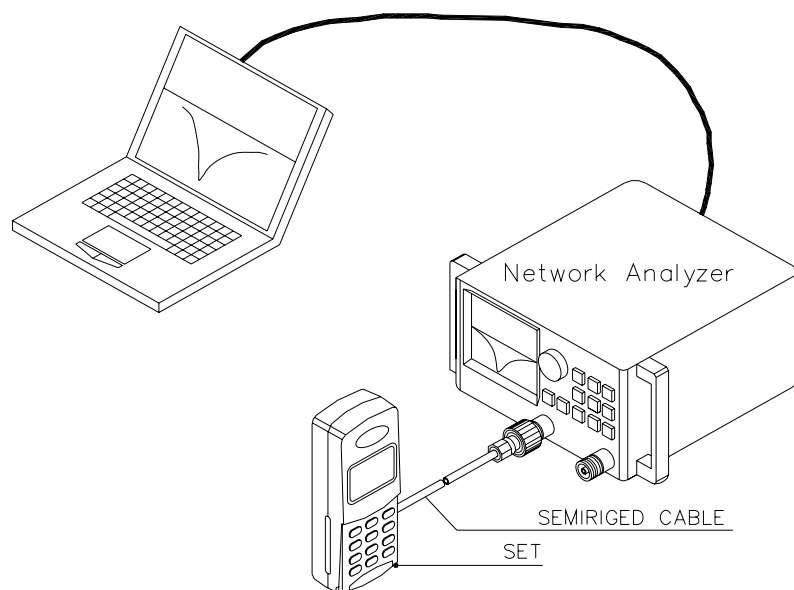
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3. Electrical Demands

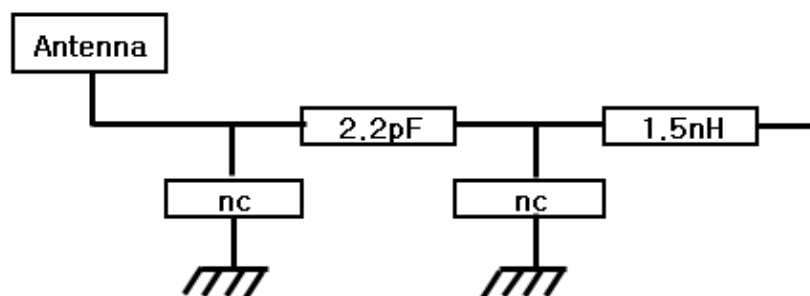
3.1 V.S.W.R

The V.S.W.R characteristics must satisfy the electrical demands.

Band	GSM850		GSM900		DCS		PCS		WCDMA	
	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
Fixed (less than vswr)	4.8:1	3.8:1	3.5:1	4.5:1	4.3:1	3.4:1	3.4:1	3.6:1	3.4:1	4.2:1



Main Ant Matching value



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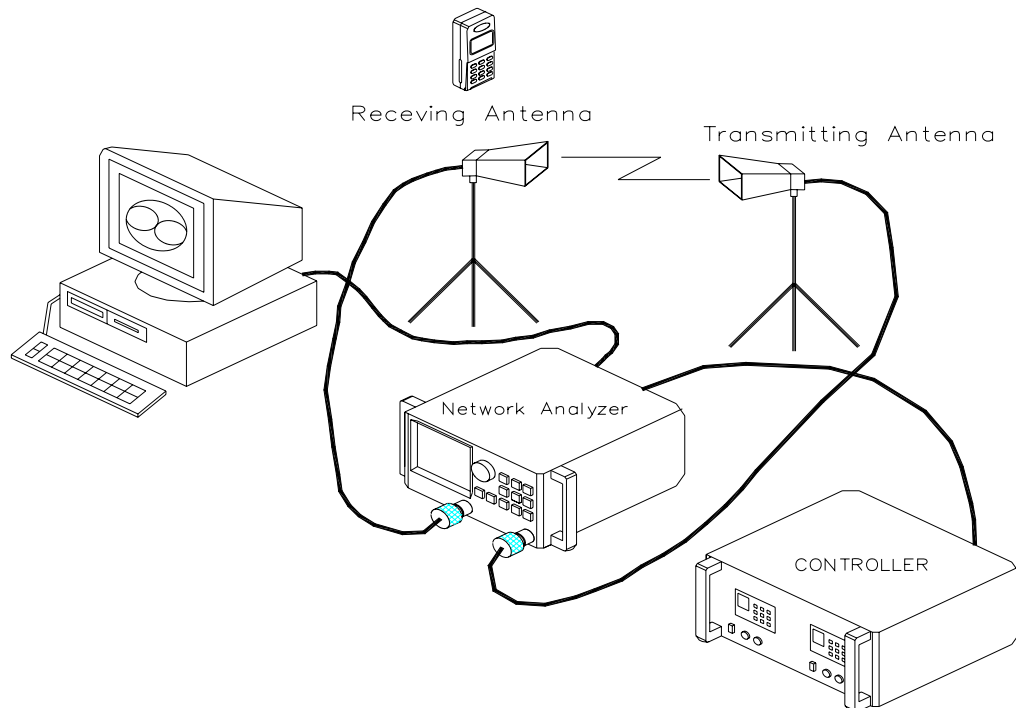
3.2 Radiation Pattern

The radiation pattern must have the omni-directional characteristic in Penta-Band and H-PLANE.

3.3 Gain

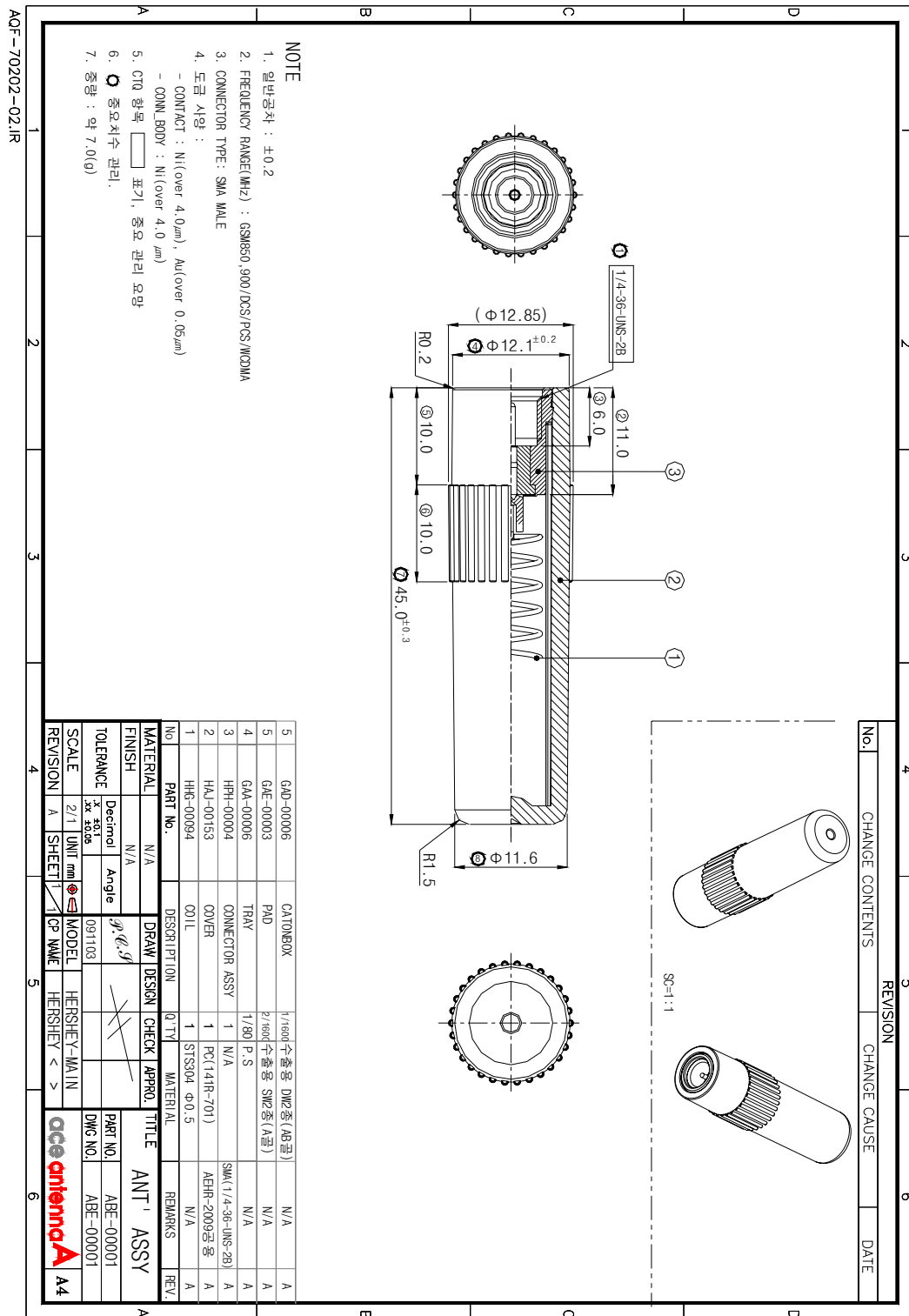
The gain is expressed as dBi that standardizes the half-wave length dipole antenna.

주파수 (Frequency Range)		GSM850		GSM900		DCS		PCS		WCDMA	
		TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
FIXED (bigger than peak gain)	E1	-6.07	-2.61	-2.75	-4.59	-7.21	-4.13	-4.26	-5.03	-5.01	-4.98
	E2	-6.6	-3.27	-3.26	-4.86	-6.97	-4.07	-4.17	-5.11	-4.93	-4.57
	H	-6.71	-3.17	-2.99	-4.39	-5.09	-2.03	-2.21	-2.65	-2.55	-2.0



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6. Antenna Drawing

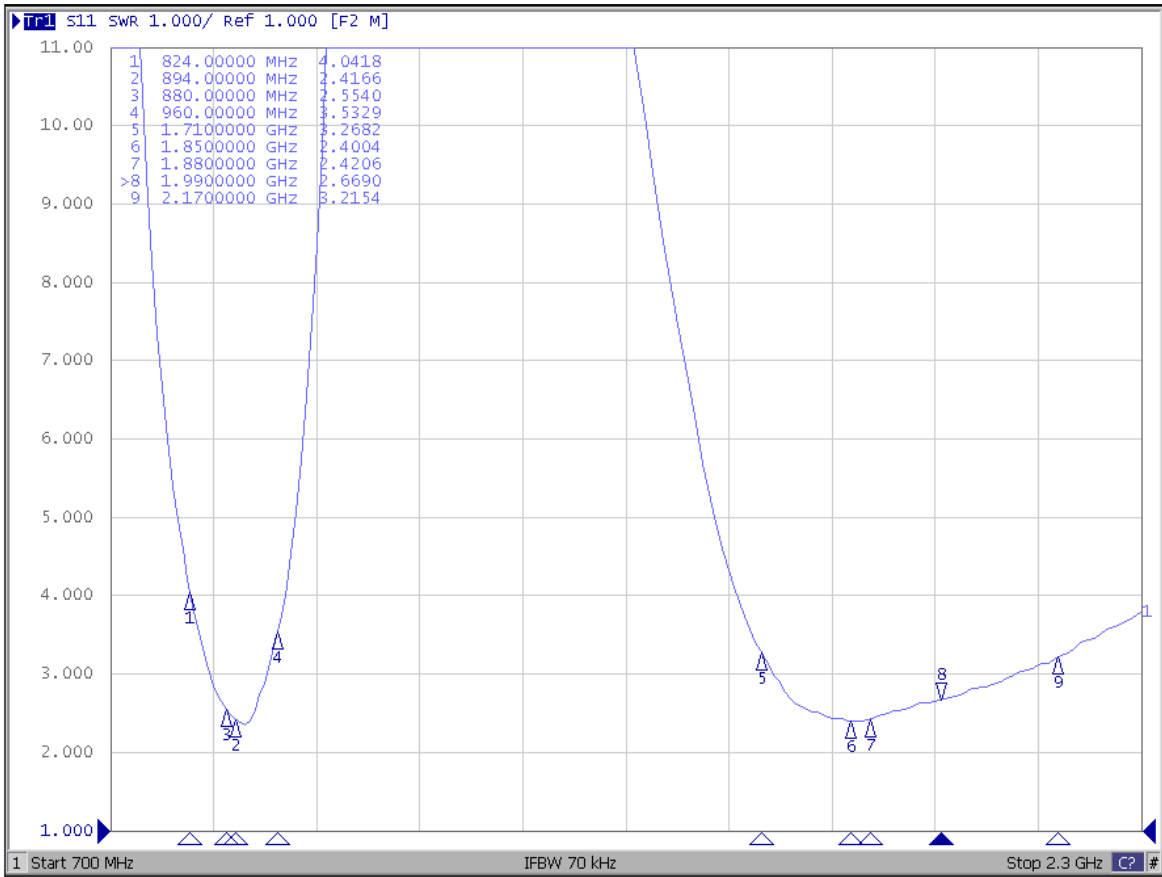


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7. Electrical data

V.S.W.R & Radiation Pattern Data

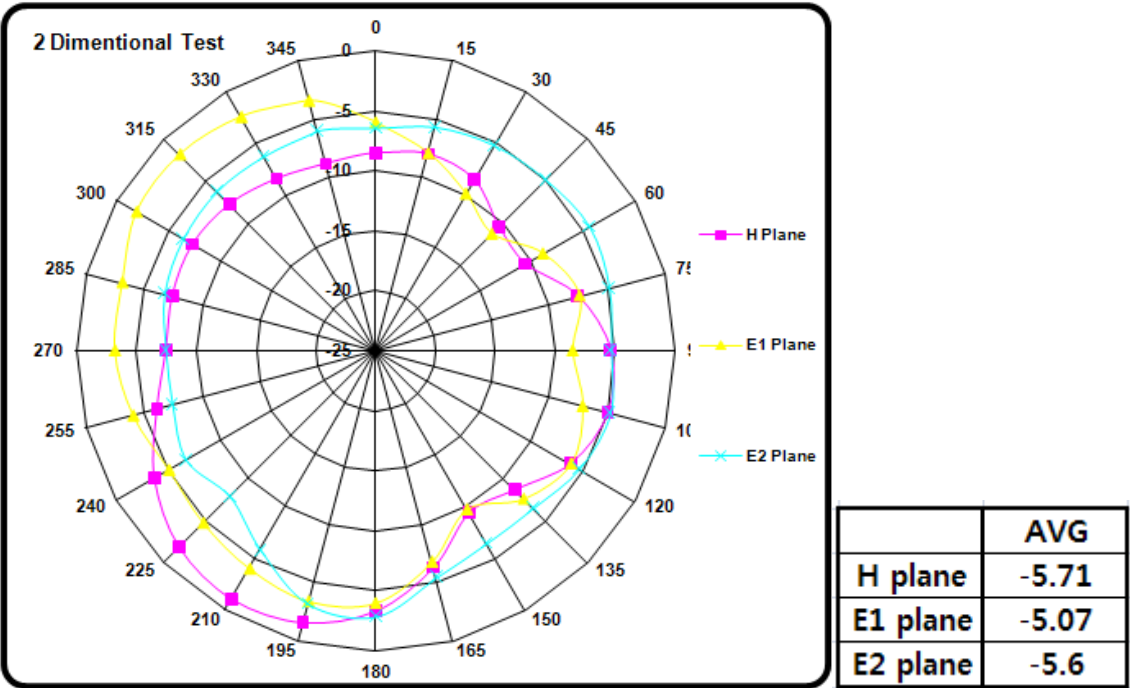
7.1 V.S.W.R



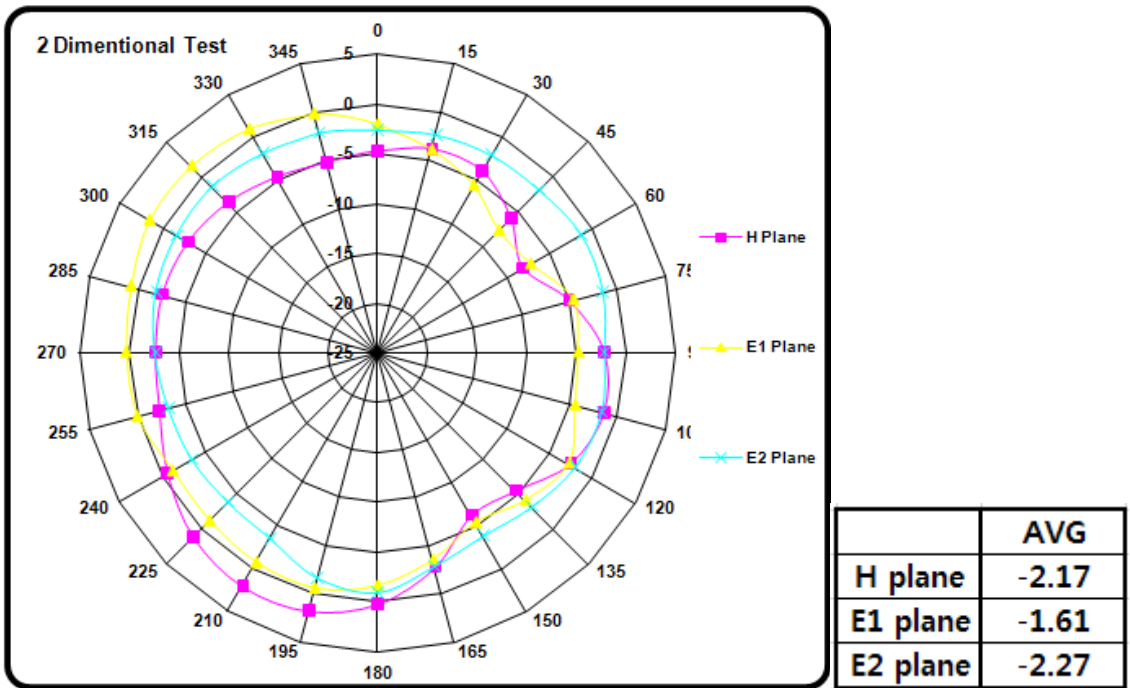
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7.2 Radiation Pattern Data – GAIN (with Matching Circuit)

– 824MHz E1,E2, H-Plane

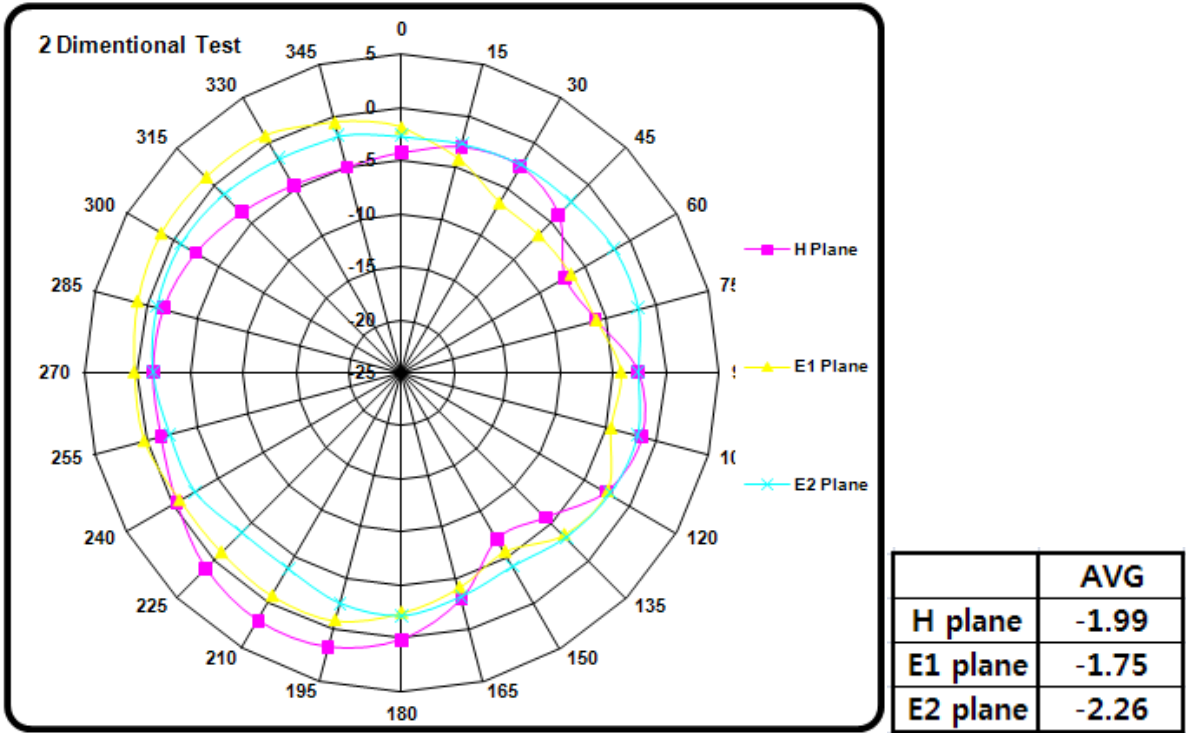


– 869MHz E1,E2, H-Plane

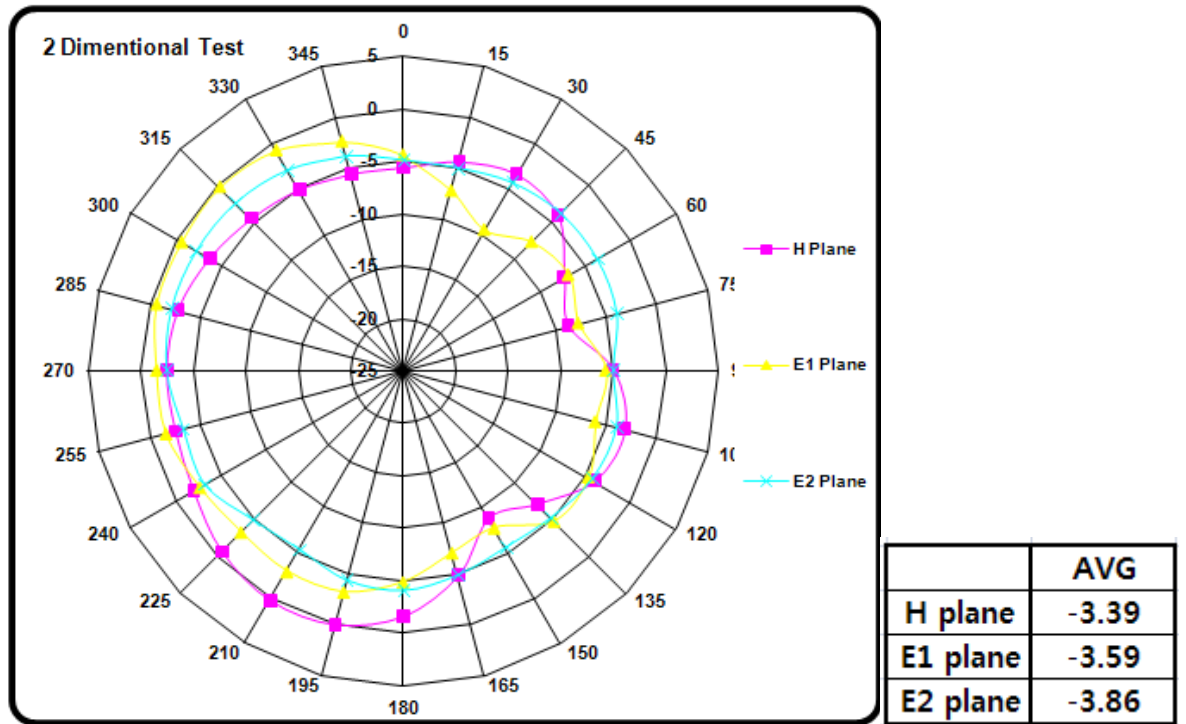


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- 915MHz E1,E2, H-Plane

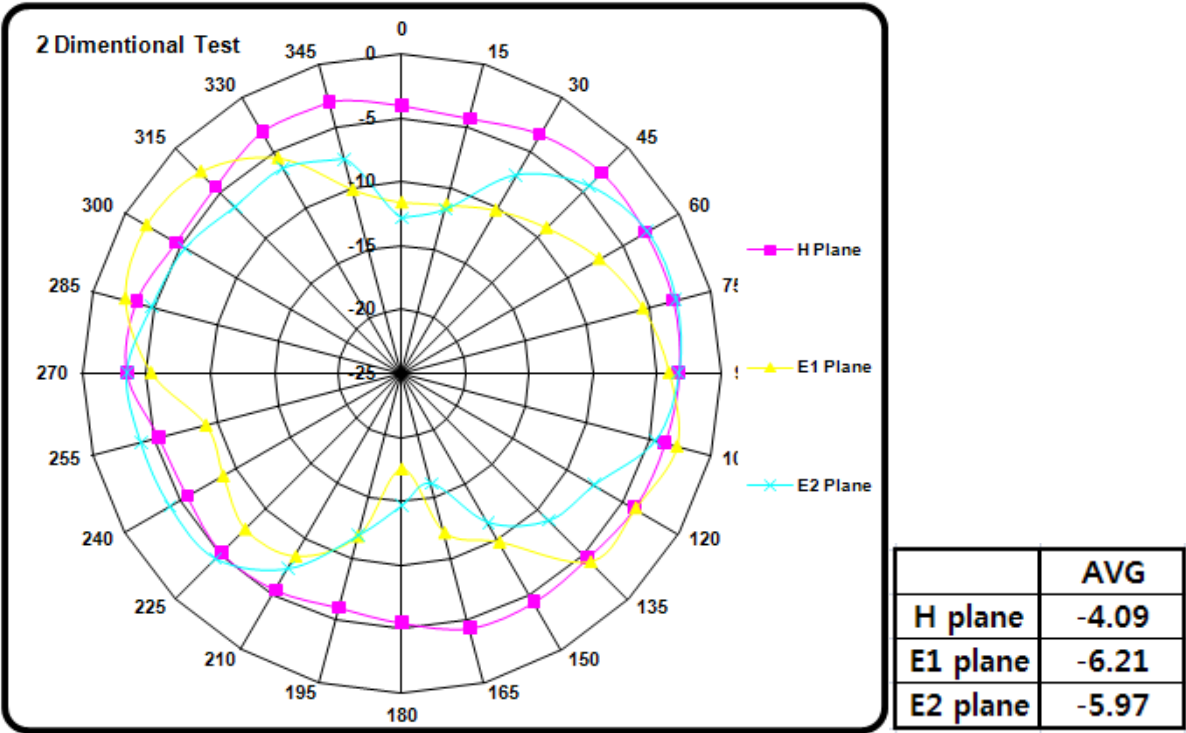


- 960MHz E1,E2, H-Plane

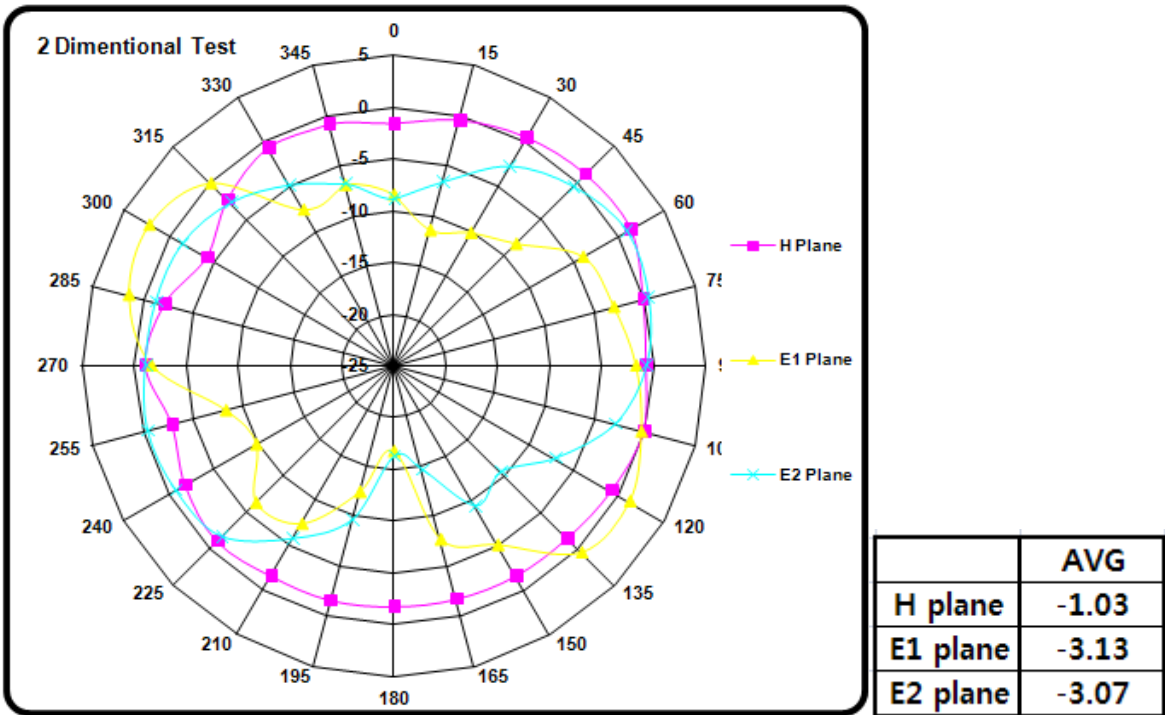


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- 1710MHz E1,E2, H-Plane

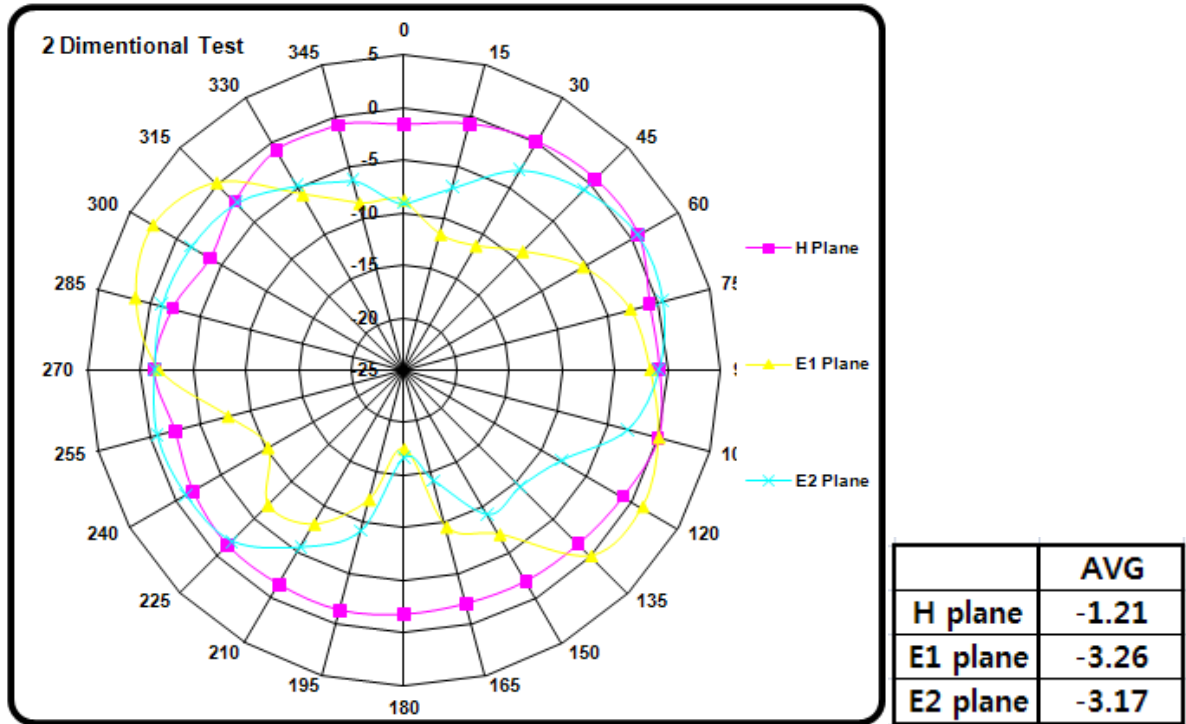


- 1880MHz E1,E2, H-Plane

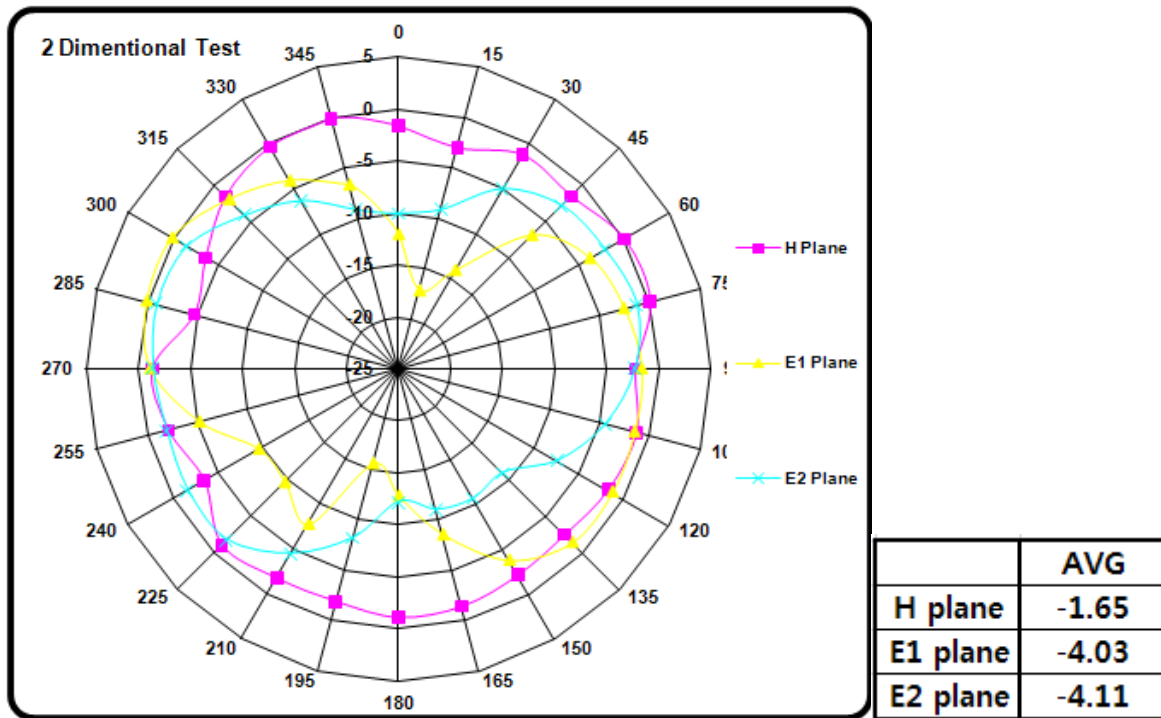


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- 1850MHz E1,E2, H-Plane

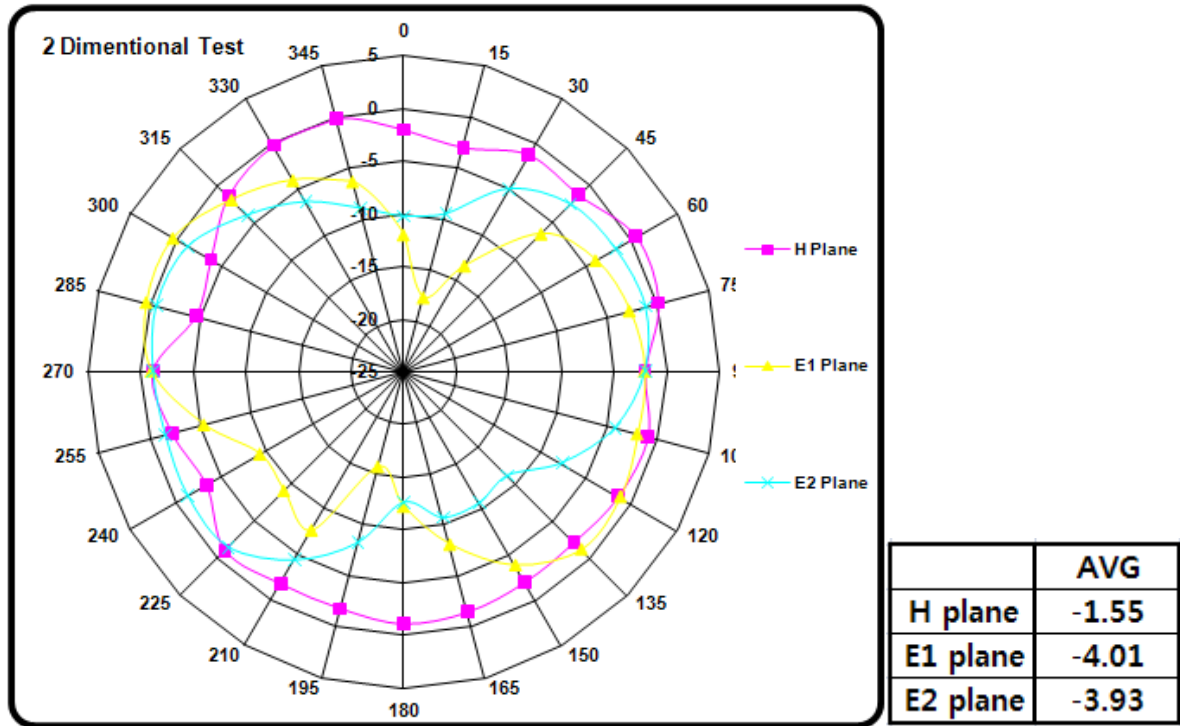


- 1990MHz E1,E2, H-Plane



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- 1980MHz E1,E2, H-Plane



- 2170MHz E1,E2, H-Plane

