

承認書

客 戶： _____

品 名： _____ WIFI Antenna

料 號： _____ HX-P135-PEX170B

客戶料號： _____

送樣日期： _____ 2024.01.10

客戶確認			供應廠商	
工程部	品保部	採購部	核准	送樣人
			趙 2024.01.10 守 剛	龚银明

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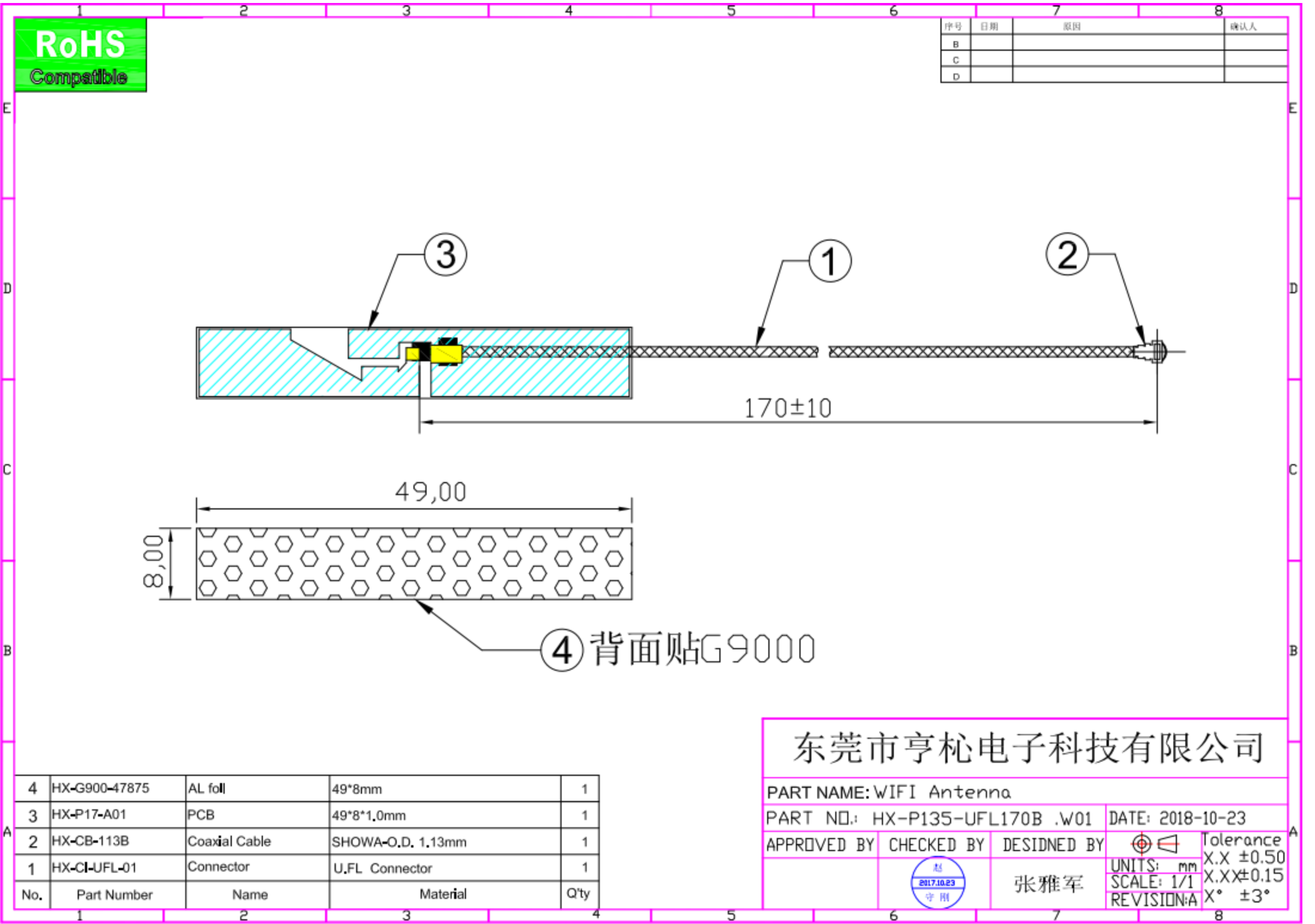
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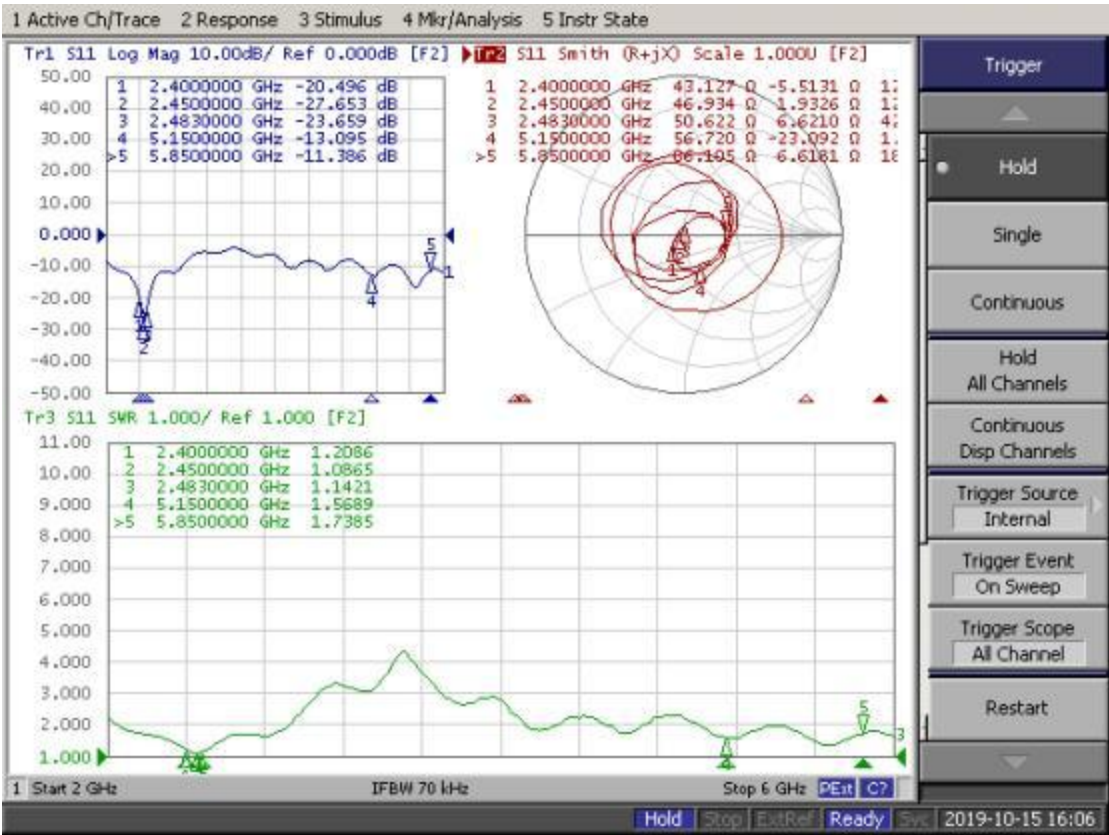
1. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

2. Specification

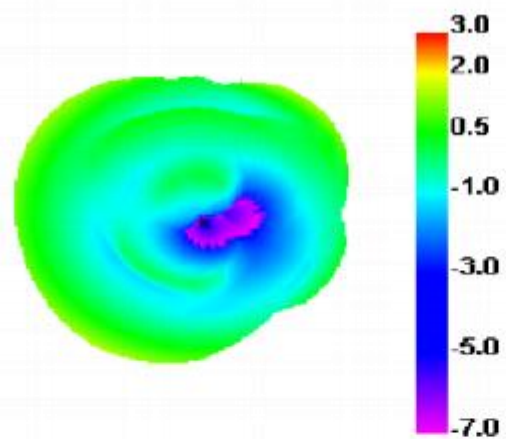
A. Electrical Characteristics	
S.W.R.	2400-2500MHz: <= 2.0
Antenna Gain	3.04 dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	PCB
Connector Type	Mini Connector
C. Environmental	
Operation Temperature	- 30 .C ~ + 85 .C
Storage Temperature	- 30 .C ~ + 85 .C

3. S Parameter Test data

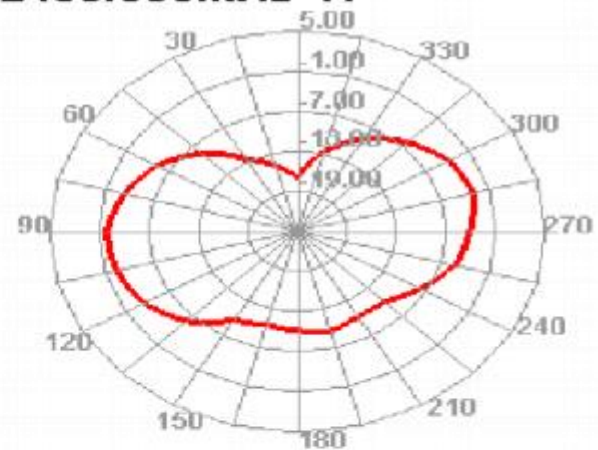


Passive Test For WIFI-2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directi vity (dBi)	Beamwid th (3dB)	AttH (dB)	AttV (dB)
2400	50.7	-2.95	3.04	0.89	20.857	29.844	3.04	-16.93	5.99	0	45.1	45.07
2410	45.83	-3.39	2.38	0.23	19.236	26.59	2.38	-18.37	5.77	0	44.88	44.83
2420	46.93	-3.29	2.88	0.73	19.667	27.259	2.88	-18.3	6.16	0	44.83	44.71
2430	48.31	-3.16	2.63	0.48	20.468	27.845	2.63	-18.26	5.79	0	45.16	44.88
2440	48.25	-3.17	2.71	0.56	20.342	27.908	2.71	-18.32	5.88	0	45.17	44.94
2450	51.19	-2.91	2.61	0.46	21.928	29.263	2.61	-18.57	5.52	0	45.89	45.33
2460	53.16	-2.74	2.72	0.57	23.086	30.077	2.72	-18.56	5.47	0	45.86	45.53
2470	51.75	-2.86	2.36	0.21	22.979	28.769	2.36	-19.35	5.22	0	45.69	45.39
2480	51.62	-2.87	2.21	0.06	23.077	28.539	2.21	-18.24	5.08	15	45.73	45.51
2490	52.86	-2.77	2.42	0.27	23.574	29.283	2.42	-17.07	5.19	15	45.96	45.84
2500	45.79	-3.39	1.64	-0.51	20.522	25.267	1.64	-14.97	5.03	15	45.47	45.3

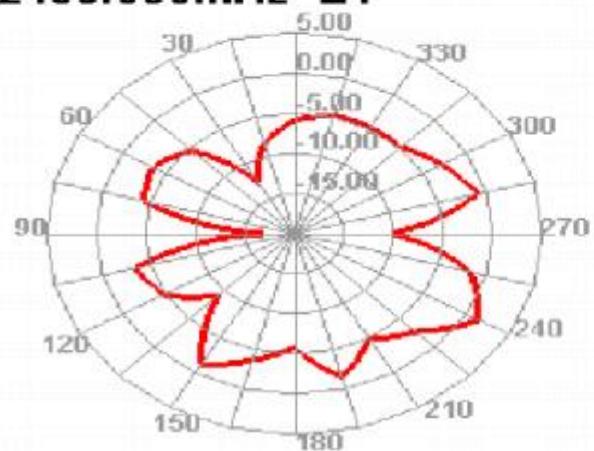
2400.000MHz



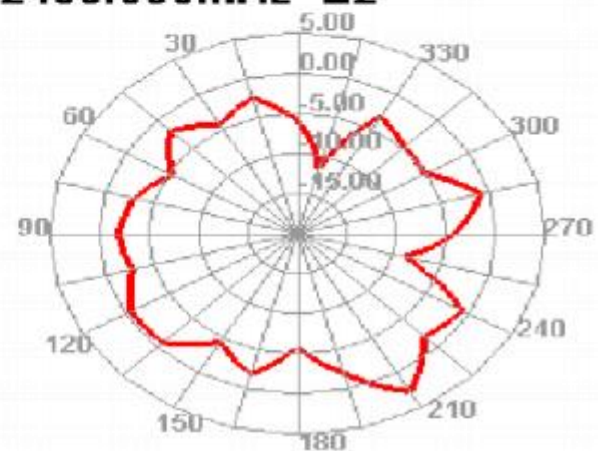
2400.000MHz H



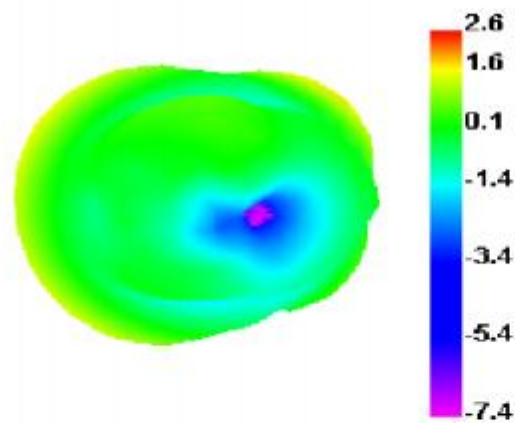
2400.000MHz E1



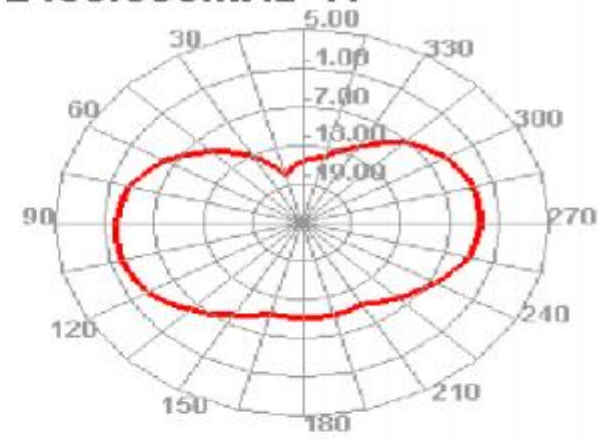
2400.000MHz E2



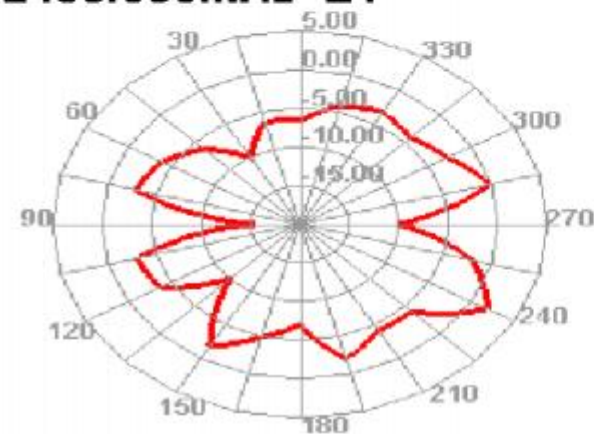
2450.000MHz



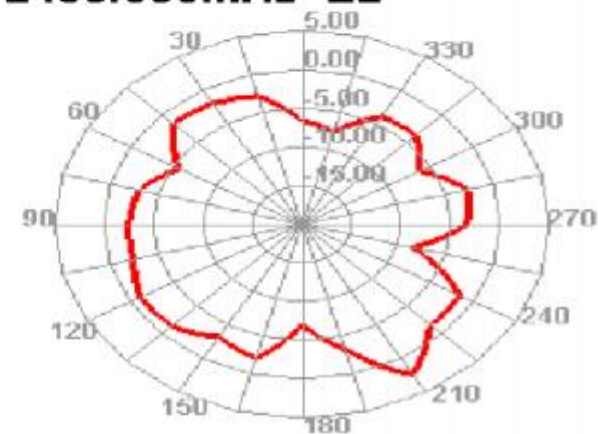
2450.000MHz H



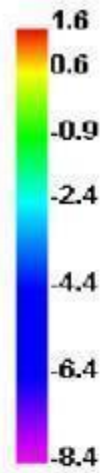
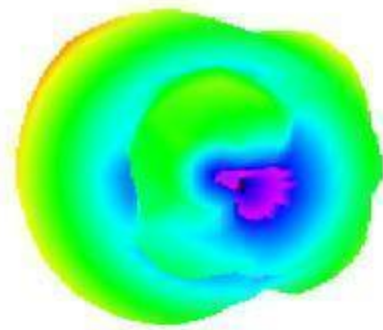
2450.000MHz E1



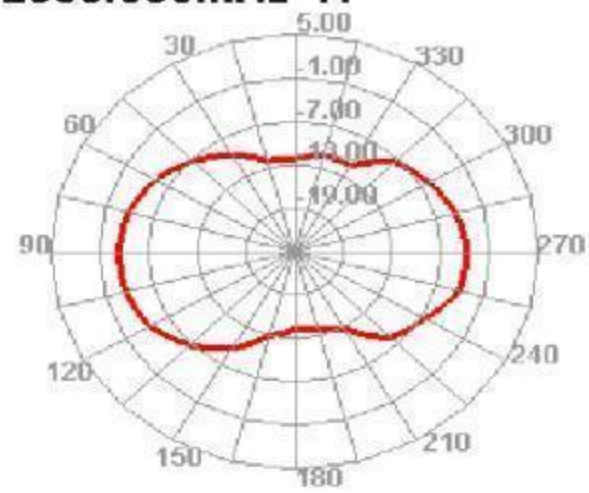
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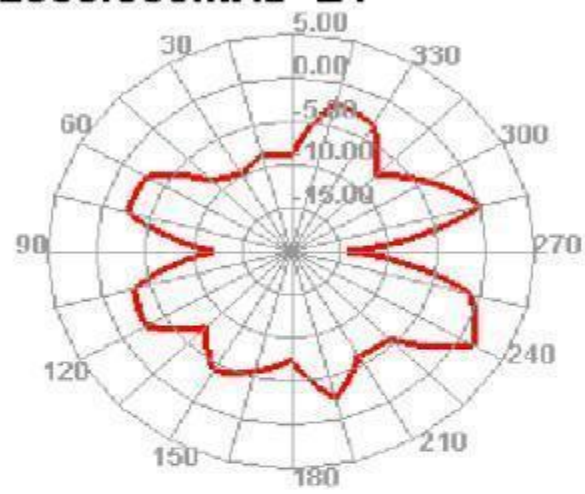
2500.000MHz



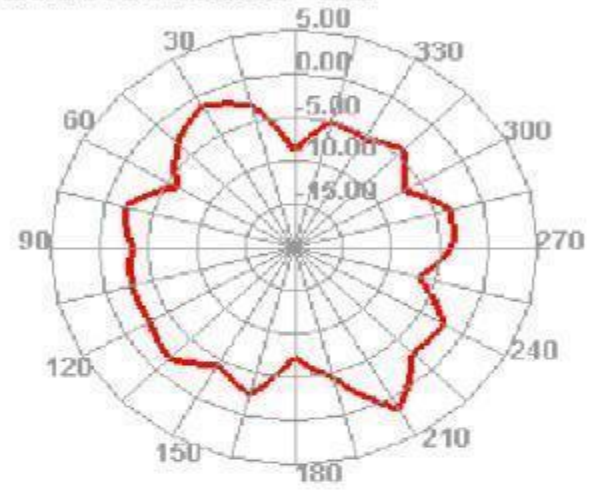
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

