



東莞市亨松電子科技有限公司

Dongguan Hengxin Electronic Technology Co., Ltd.

承認書

客 戶:

品 名:

2.4G/5.8G Antenna

料 號:

HX-P135-PEX180B

客戶料號:

送樣日期:

2026.02.25

客戶確認			供應廠商	
工程部	品保部	採購部	核准	送樣人
			趙 2026.02.25 守 剛	龚银明

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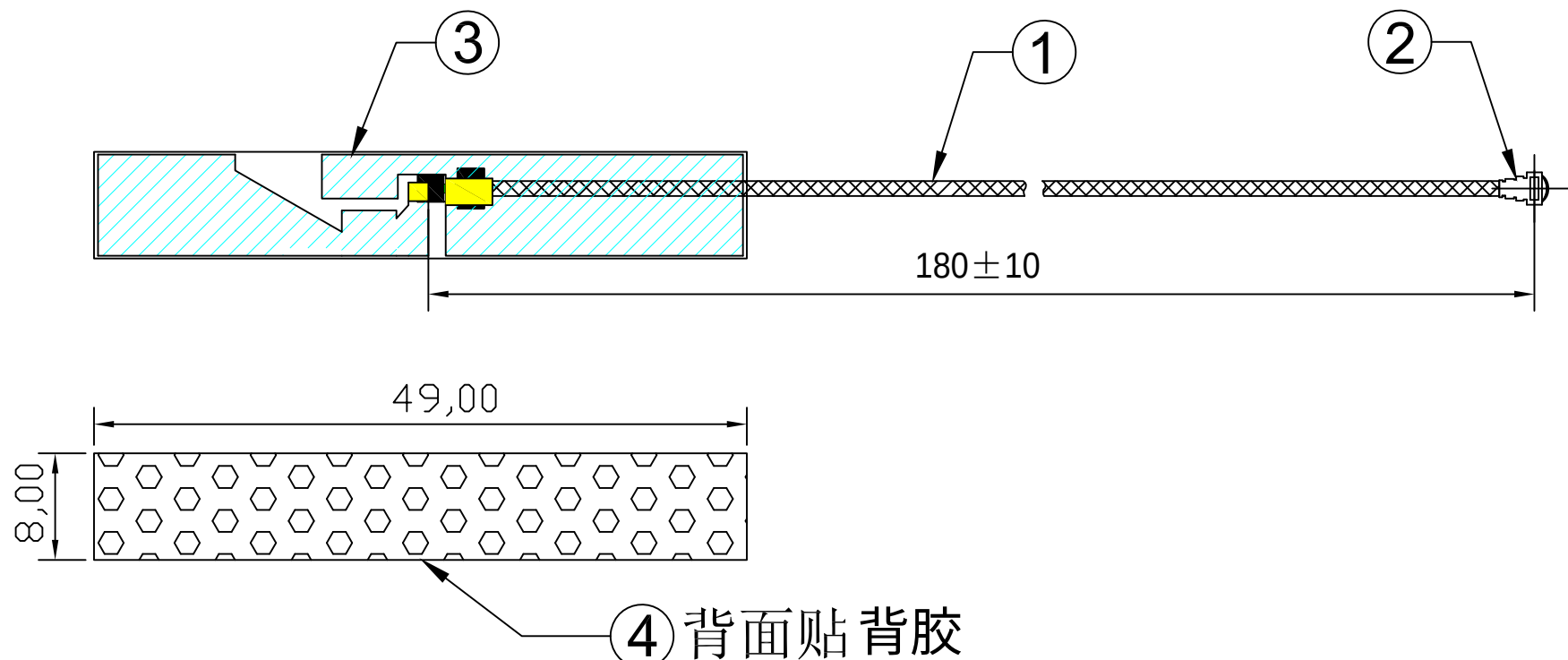
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RoHS
Compatible

序号	日期	原因	确认人
B			
C			
D			



Backside is coated with adhesive.

Dongguan Hengxin Electronic Technology Co., Ltd.

PART NAME: WIFI Antenna

PART NO.: HX-P135-UFL180 B .W01 DATE: 2018-10-23

APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance
		张雅军	UNITS: mm	X.X ±0.50
			SCALE: 1/1	X.XX±0.15
			REVISION:A	X° ±3°

4	HX-G900-47875	AL foil	49*8mm	1
3	HX-P17-A01	PCB	49*8*1.0mm	1
2	HX-CB-113B	Coaxial Cable	SHOWA-O.D. 1.13mm	1
1	HX-CI-UFL-01	Connector	U.FL Connector	1
No.	Part Number	Name	Material	Q'ty

1. Reliability Testing
2. Specification
3. SParameter Test Data
4. Antenna Radiation Pattern

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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

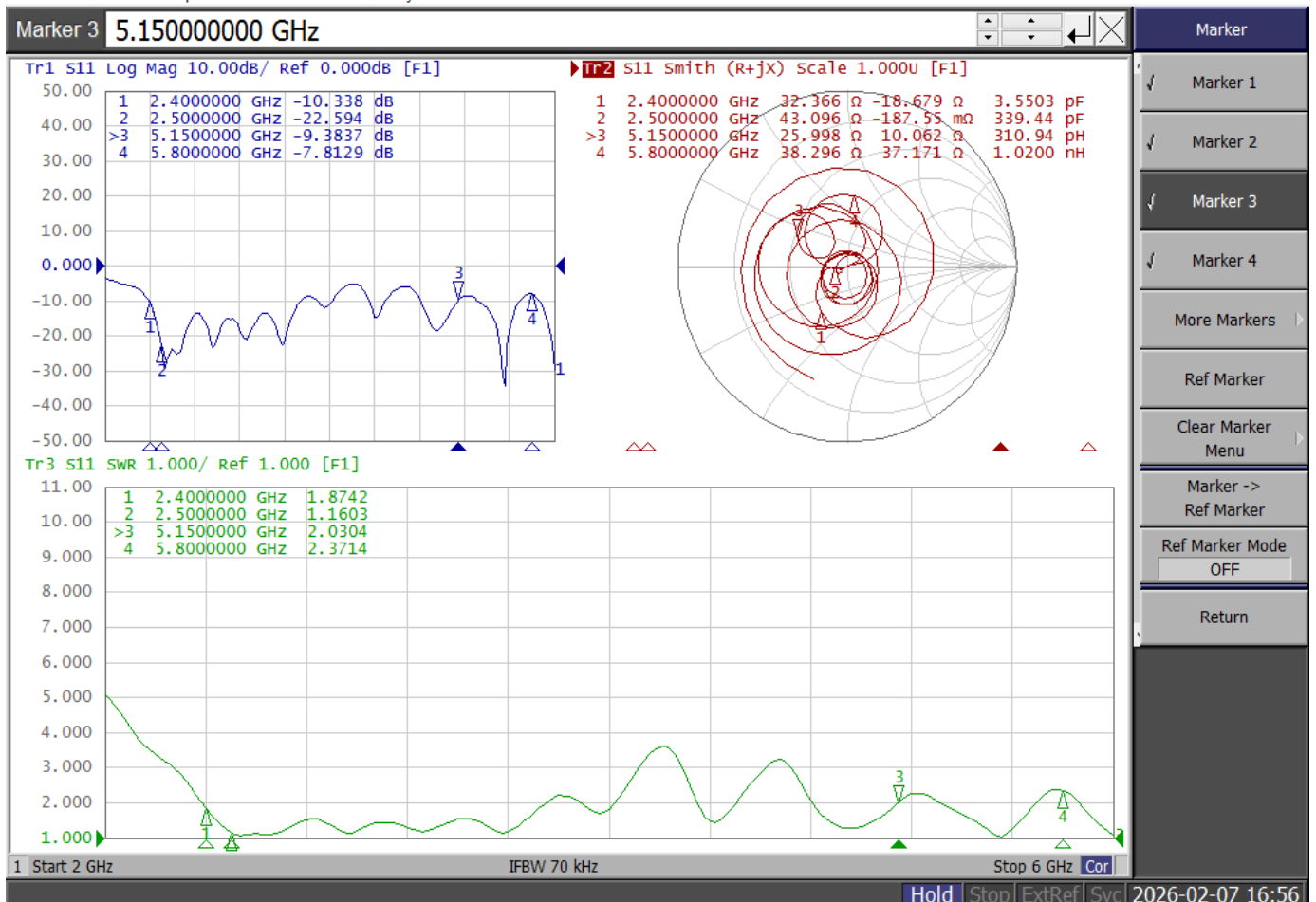
A. Electrical Characteristics	
S.W.R.	2400-2500/5150-5800MHz: <= 2.0
Antenna Gain	3.58 dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	PCB
Connector Type	Mini Connector
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

3. S Parameter Test data

E5071C Network Analyzer

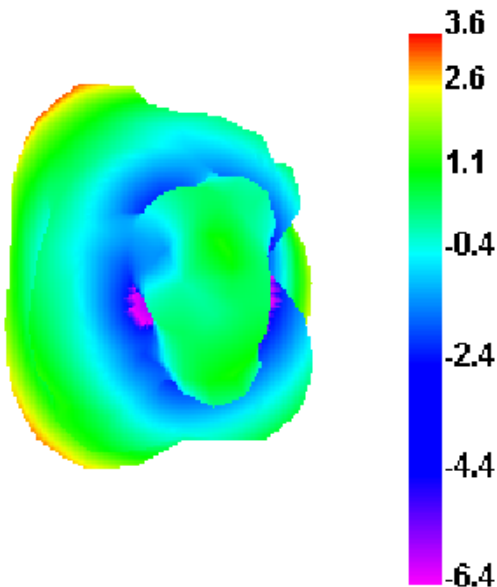
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

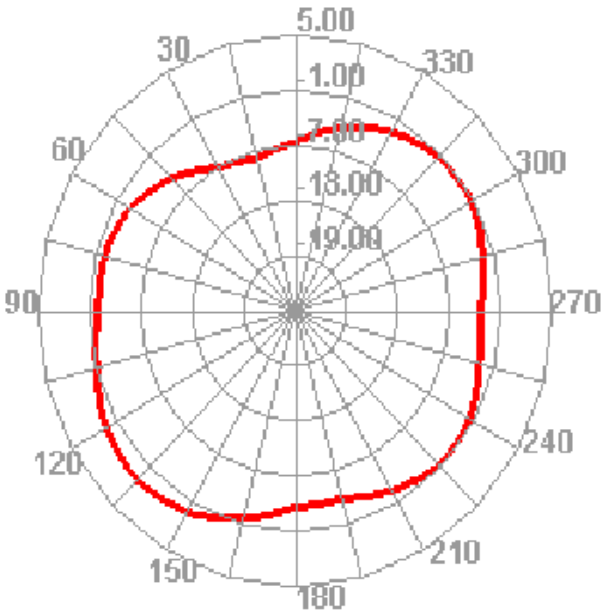


Passive Test For 2400-2600												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Directi vity (dBi)	Beamwid th (3dB)	AttH (dB)	AttV (dB)
2400	65.11	-1.86	3.58	1.43	23.551	41.56	3.58	-13.58	5.44	15	45.1	45.07
2420	57.81	-2.38	3.11	0.96	21.012	36.795	3.11	-14.79	5.49	15	44.83	44.71
2440	57.68	-2.39	2.94	0.79	21.465	36.219	2.94	-13.22	5.33	15	45.17	44.94
2460	66.36	-1.78	3.15	1	25.441	40.916	3.15	-13.13	4.93	30	45.86	45.53
2480	61.67	-2.1	2.73	0.58	24.172	37.496	2.73	-13.49	4.83	30	45.73	45.51
2500	56.5	-2.48	2.26	0.11	22.429	34.07	2.26	-13.57	4.74	15	45.47	45.3
2520	57.85	-2.38	2.07	-0.08	23.365	34.485	2.07	-14.08	4.45	30	46.06	45.66
2540	55.24	-2.58	1.92	-0.23	22.08	33.158	1.92	-14.23	4.5	30	46.03	45.81
2560	50.43	-2.97	1.72	-0.43	19.415	31.012	1.72	-14.17	4.7	30	45.49	45.57
2580	50.28	-2.99	1.82	-0.33	19.105	31.172	1.82	-15.62	4.8	30	45.43	45.41
2600	46.42	-3.33	1.74	-0.41	16.859	29.565	1.74	-15.81	5.07	30	44.57	44.68

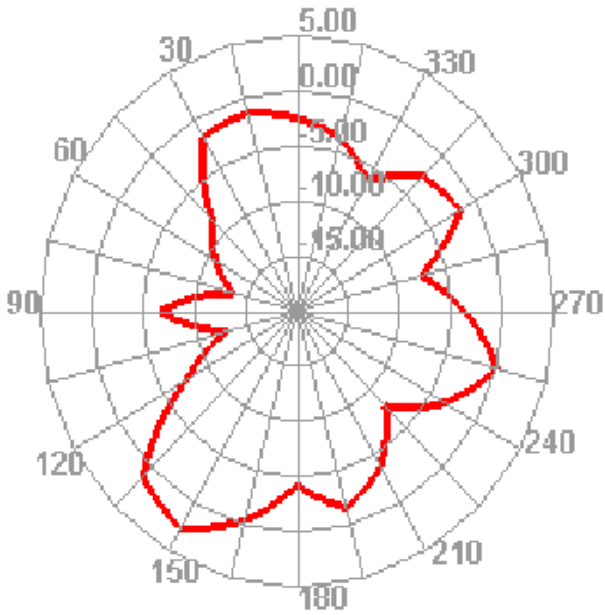
2400.000MHz



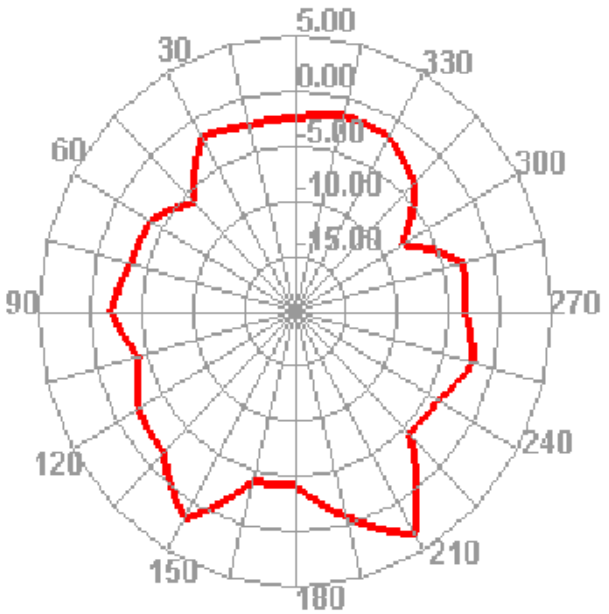
2400.000MHz H



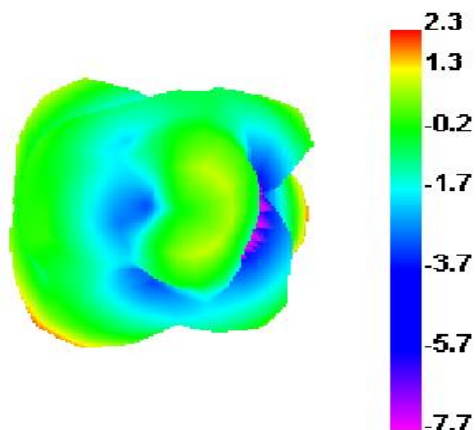
2400.000MHz E1



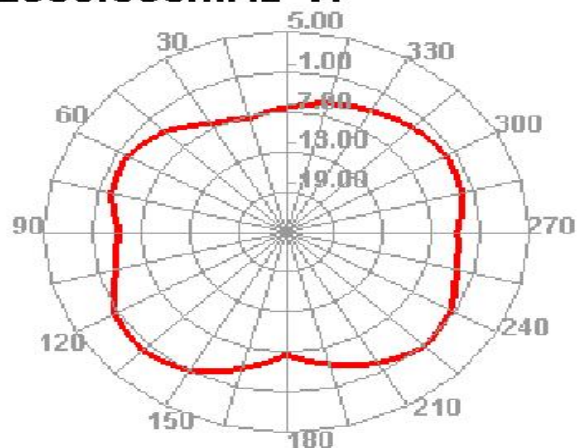
2400.000MHz E2



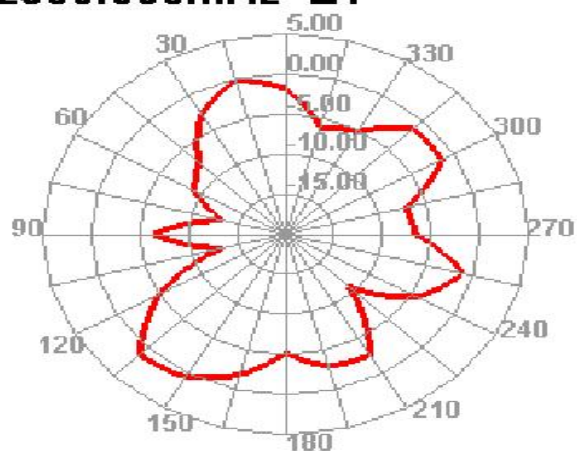
2500.000MHz



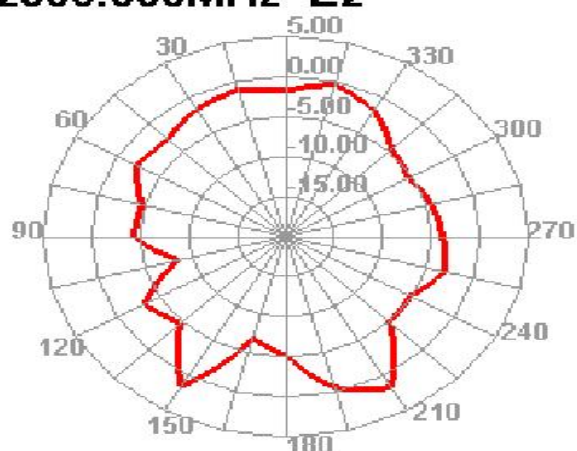
2500.000MHz H



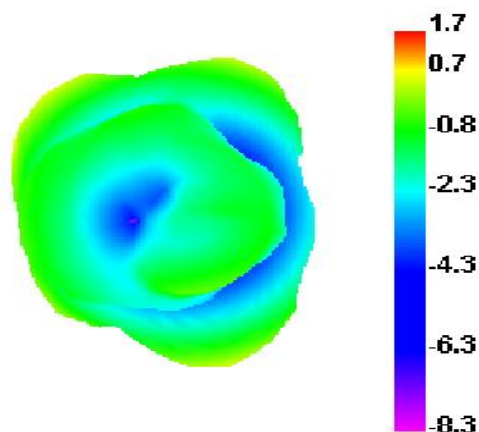
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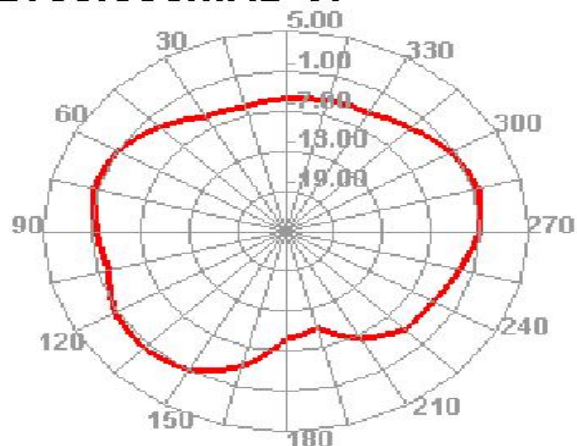
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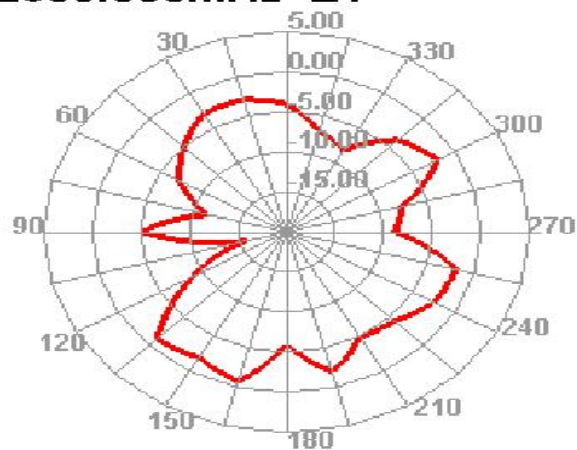
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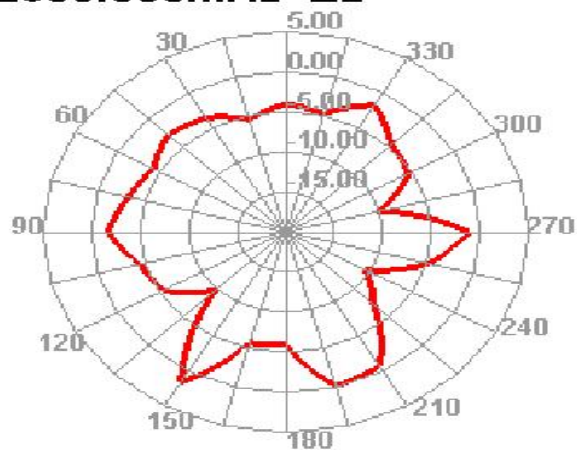
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2600.000MHz E1

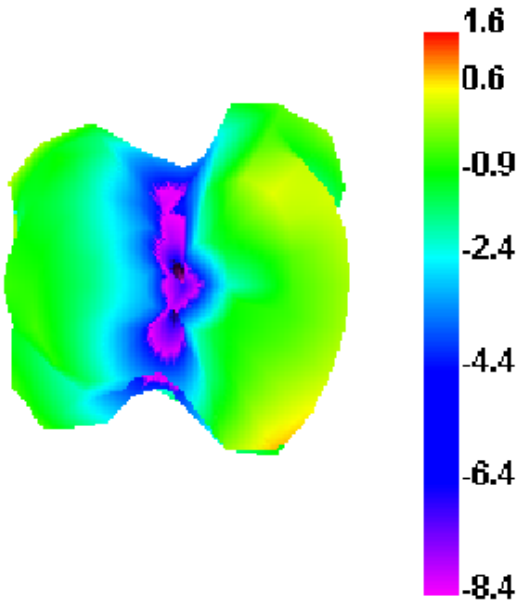


2600.000MHz E2

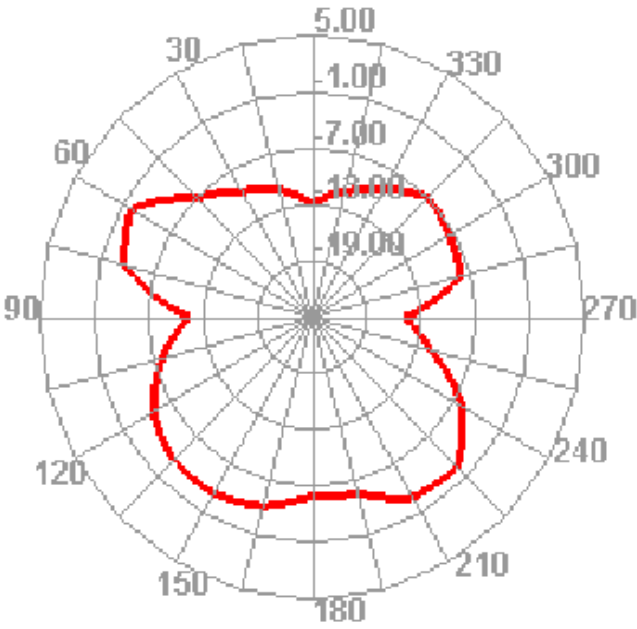


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Directi vity (dBi)	Beamwid th (3dB)	AttH (dB)	AttV (dB)
5750	38.41	-4.16	1.56	-0.59	16.679	21.728	1.56	-17.68	5.72	15	54.11	55.14
5760	38.34	-4.16	1.64	-0.51	16.394	21.945	1.64	-16.87	5.81	15	54.24	54.96
5770	41.3	-3.84	1.81	-0.34	17.635	23.663	1.81	-15.81	5.65	15	54.7	55.65
5780	34.6	-4.61	1.08	-1.07	14.555	20.048	1.08	-17.96	5.69	15	53.99	54.83
5790	29.66	-5.28	0.29	-1.86	12.419	17.24	0.29	-19.04	5.56	15	53.42	54.28
5800	37.13	-4.3	1.45	-0.7	15.384	21.748	1.45	-19.25	5.75	15	54.19	54.94
5810	46.6	-3.32	2.29	0.14	19.373	27.232	2.29	-20.7	5.61	15	55.09	55.92
5820	49.89	-3.02	2.81	0.66	20.398	29.489	2.81	-22.03	5.83	15	55.27	56.17
5830	34.28	-4.65	1.18	-0.97	13.875	20.401	1.18	-22.54	5.83	15	54.17	54.62
5840	29.64	-5.28	0.54	-1.61	11.898	17.738	0.54	-20.34	5.82	15	53.42	54.12
5850	34.87	-4.58	1.27	-0.88	13.971	20.901	1.27	-18.4	5.84	15	54.47	55.21

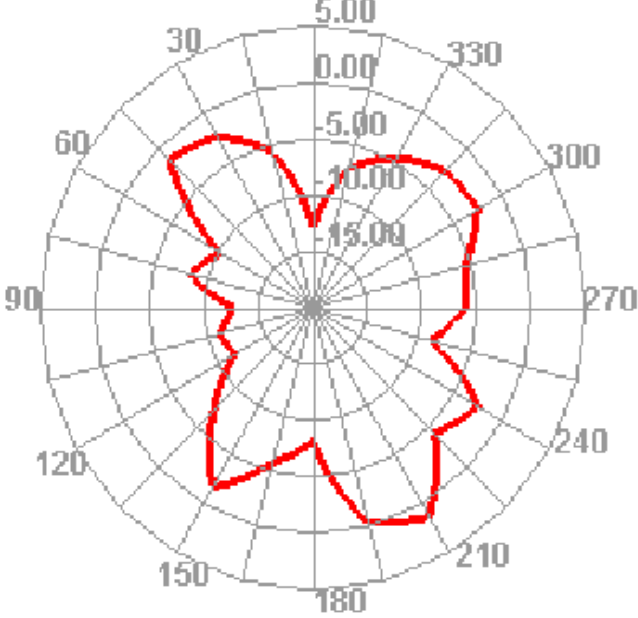
5750.000MHz



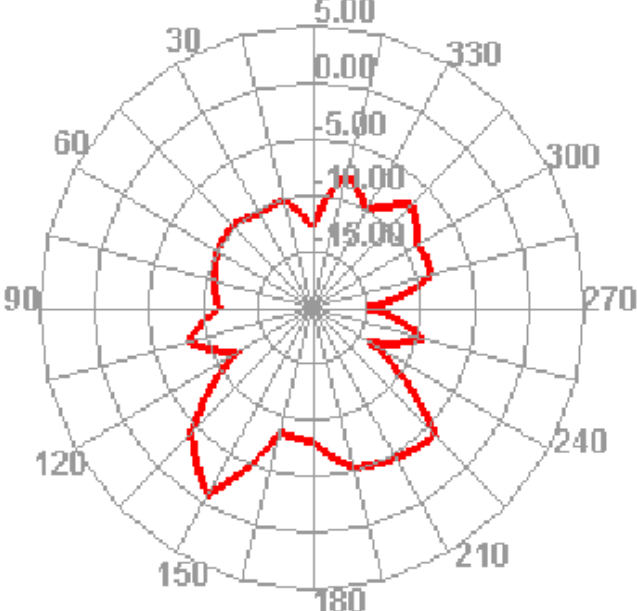
5750.000MHz H



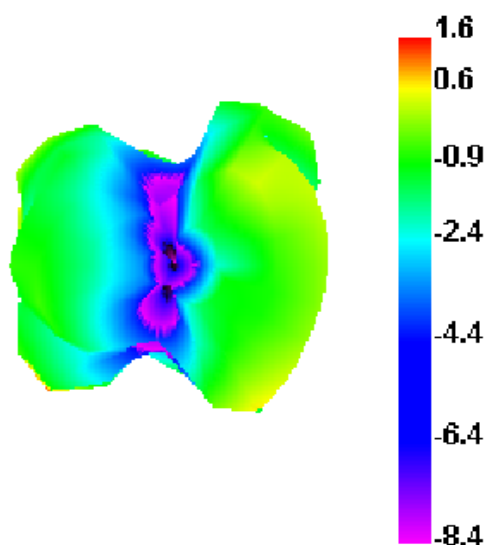
5750.000MHz E1



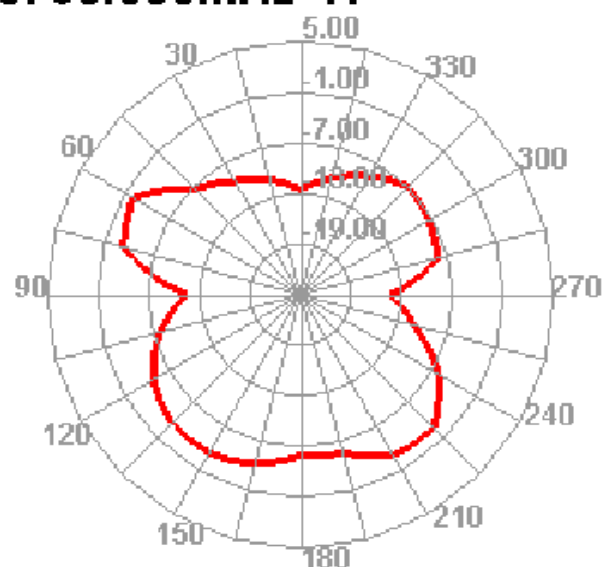
5750.000MHz E2



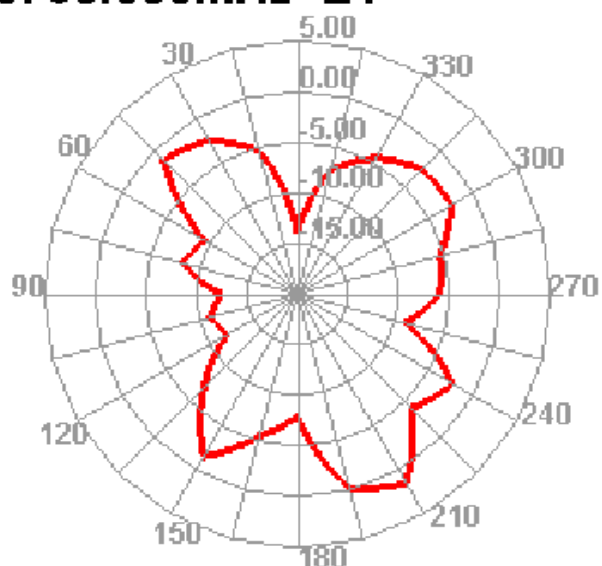
5760.000MHz



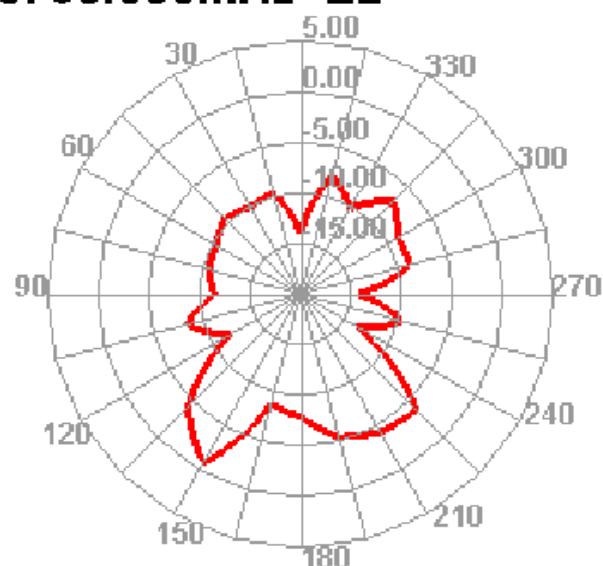
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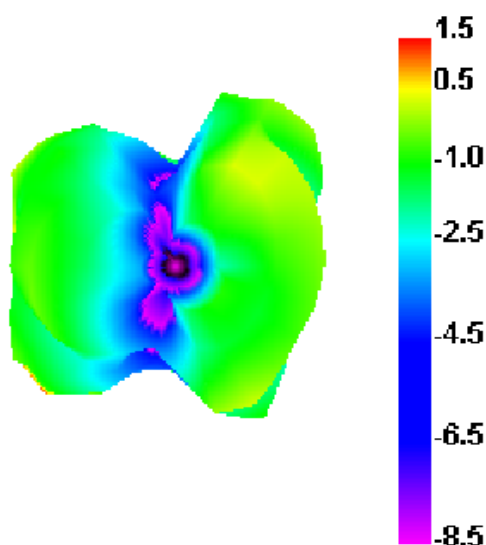
5760.000MHz E1



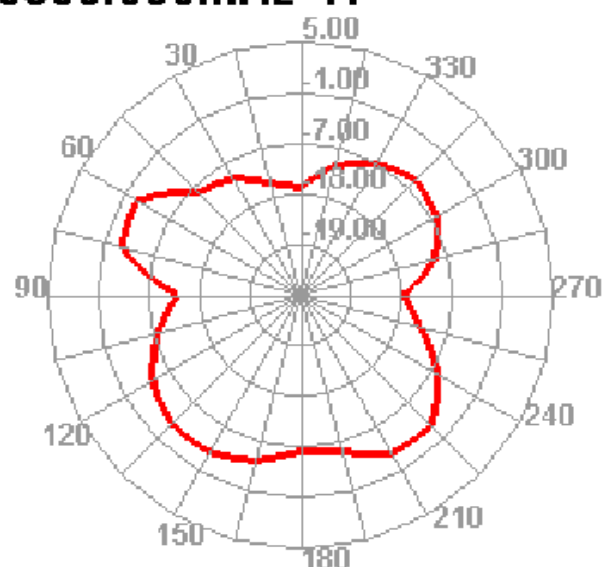
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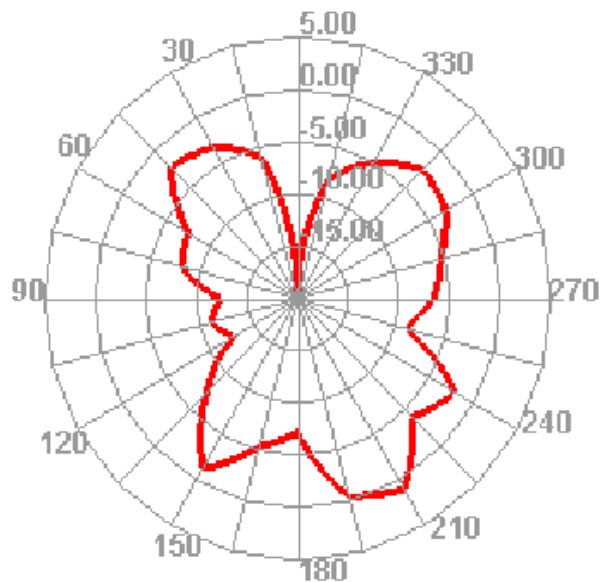
5800.000MHz



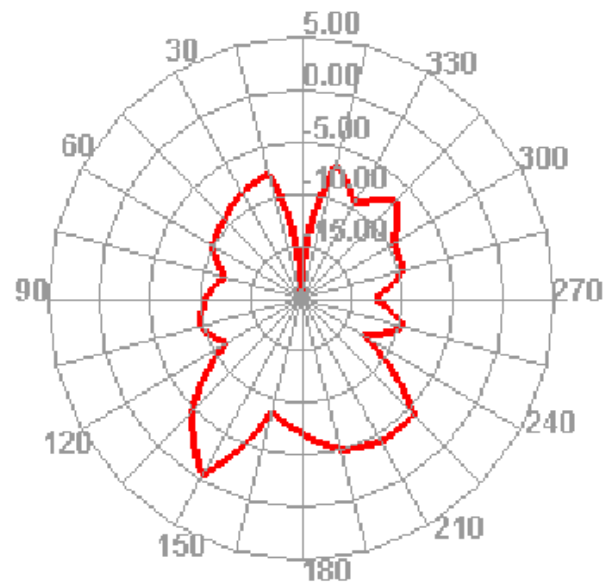
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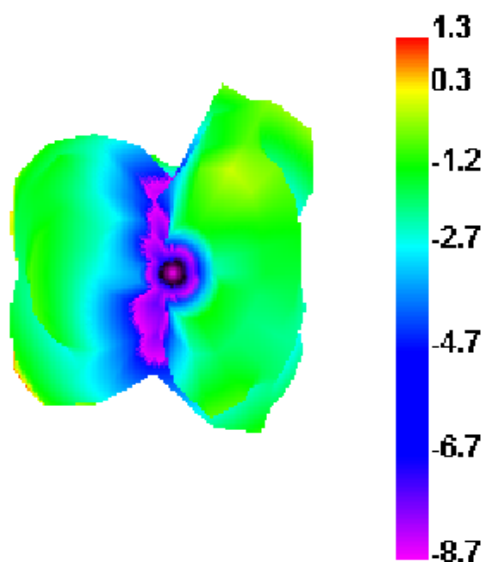
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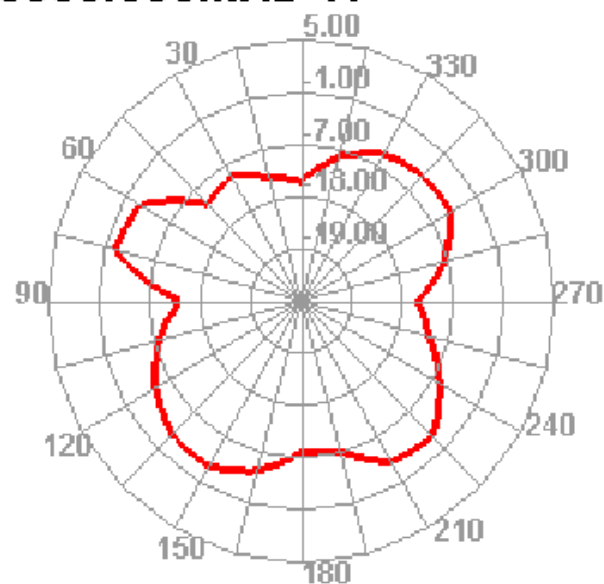
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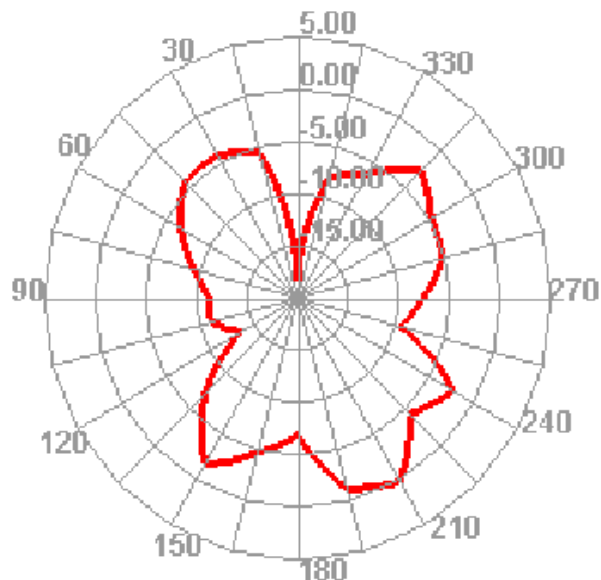
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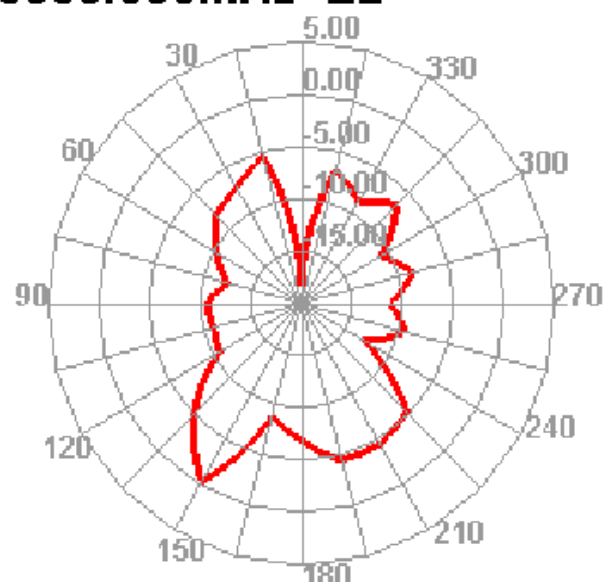
5850.000MHz H



5850.000MHz E1



5850.000MHz 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

