



东莞市千木电子科技有限公司

Qianmu Electronics Technology Co. Ltd

样品规格书

客 户:

品 名:

机内电源线

料 号:

客户料号:

送样日期:

2026-03-02

客户确认			供应商确认	
工程部	品质部	生产部	核准	送样人
马明德	梁怀生	蔡良培	袁静	李君林

TEL : 0769-88002357 FAX: 0769-88002357

E-mail:276974640@qq.com

http://qianmugps.1688.com

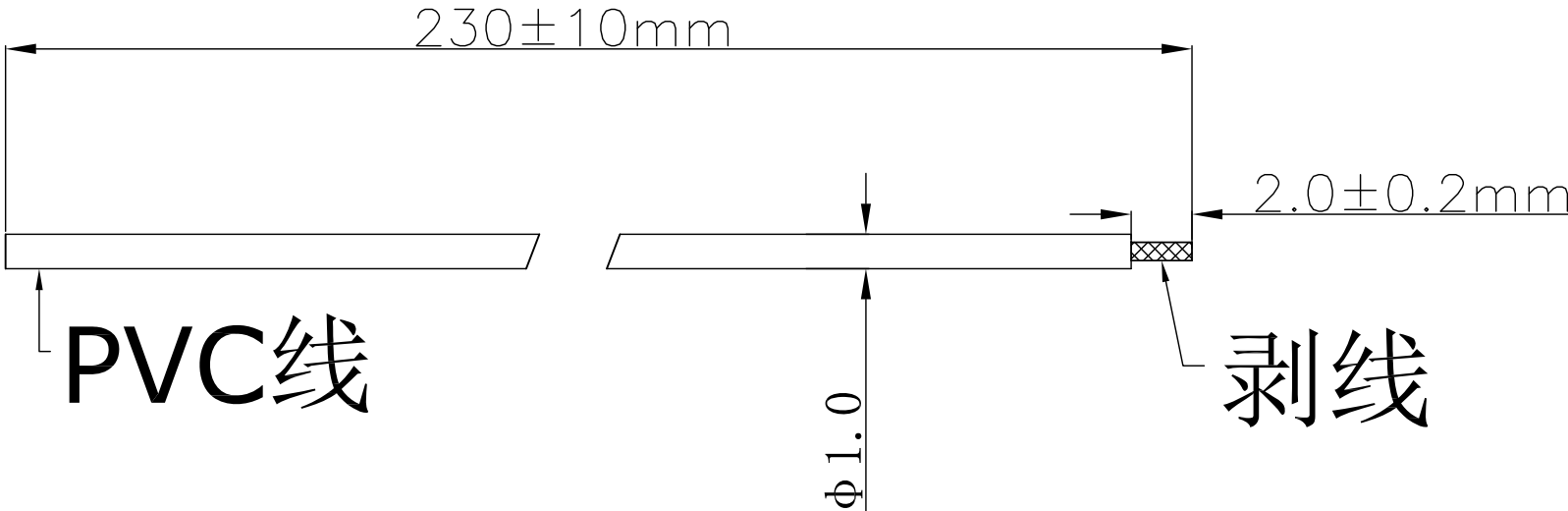


目 录

1.封面-----	1
2.目录-----	2
3.成品图面-----	3
4.测试报告-----	4
5.线材规格-----	7

RoHS
Compatible

序号	日期	原因	确认人
B			
C			
D			



10090674 机内电源线
1*0.5*230mm 内芯铁镀锡
黑色单支线 PVC线 单支外径
φ1.0 一端剥皮浸锡2MM 另一
端不剥皮

东莞市千木电子科技有限公司				
PART NAME: 转接线				
PART NO.: W16-19 S1			DATE: 2025-03-04	
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance
		卓靖婷	UNITS: mm	X.X ±0.50
			SCALE: 1/1	X.XX ±0.15
			REVISION:A	X° ±3°

Index:

- 1. Reliability Testing
- 2. Specification
- 3. S Parameter Test Data
- 4. Antenna Radiation Pattern

=====

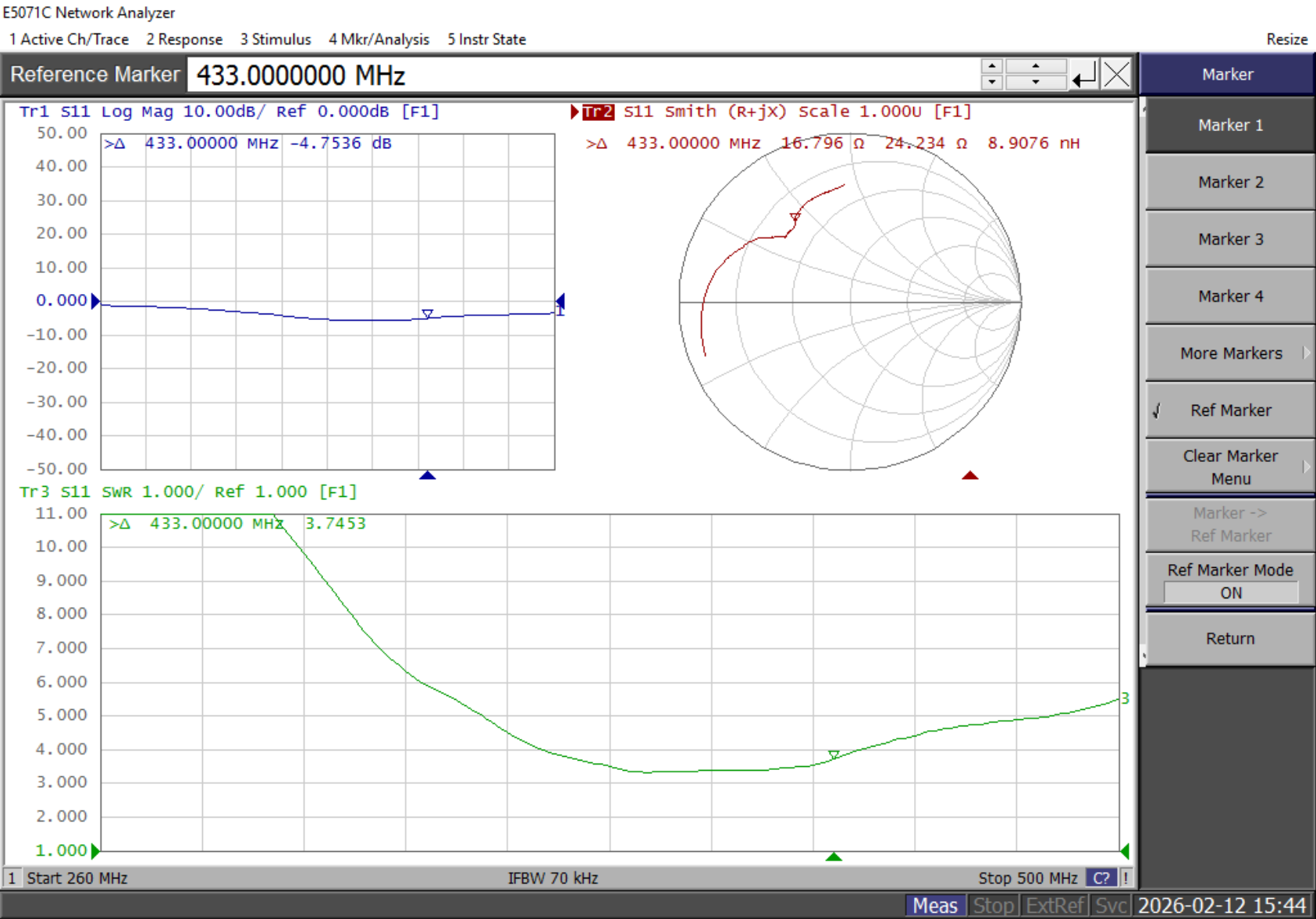
1. Reliability Testing

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 80°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < ±5%
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < ±5%
4. Endurance	24 hours at 80°C	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < ±5%
5. Connector Pull Strength Test	>= 1.0 Kg	Hold 2~3S: 1. no visible damage 2. bandwidth tolerance < ±5%

2. Specification

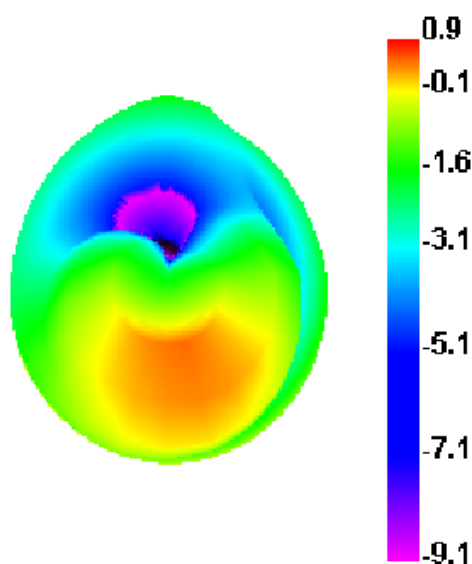
A. Electrical Characteristics	
S.W.R.(Tested in PC)	<= 2.0 @ 433Hz
Typical Antenna Gain	+3.0 ± 0.5
Impedance	50 Ohm
B. Material	
Material of Radiator	CU
Connector Type	N/A
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

3. S.W.R. Testing Result

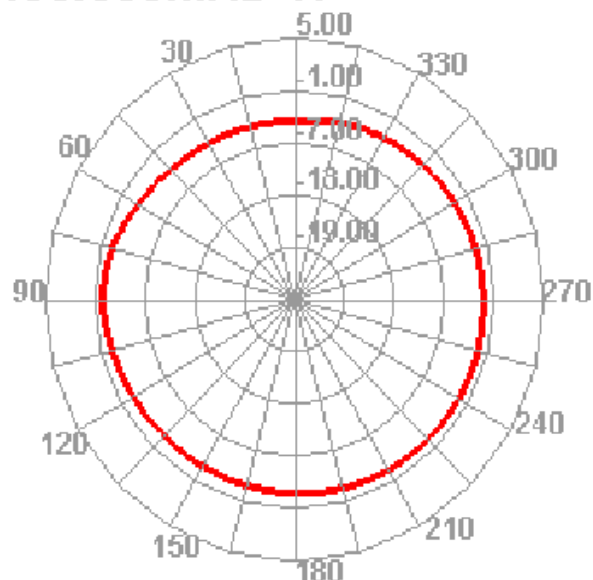


Passive Test For 433												
Freq	Effi	Effi	Gain	Gain	UHS	DHS	Max	Min	Directiv	Beamwidth	AttH	AttV
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)	(dBi)	(3dB)	(dB)	(dB)
400	61.63	-2.1	0.93	-1.22	26.765	34.866	0.93	-10.78	3.04	90	36.42	36.02
401	63.12	-2	1.13	-1.02	27.175	35.95	1.13	-10.3	3.13	60	36.37	35.99
402	64.45	-1.91	1.27	-0.88	27.368	37.083	1.27	-9.81	3.18	60	36.32	35.96
403	65.24	-1.86	1.26	-0.89	27.618	37.617	1.26	-9.4	3.12	60	36.28	35.94
404	65.26	-1.85	1.1	-1.05	27.965	37.292	1.1	-9.13	2.95	90	36.23	35.91
405	64.88	-1.88	0.96	-1.19	28.043	36.838	0.96	-9.05	2.84	105	36.18	35.88
406	63.47	-1.97	0.88	-1.27	27.285	36.188	0.88	-9.16	2.85	90	36.05	35.8
407	61.9	-2.08	0.89	-1.26	26.351	35.55	0.89	-9.33	2.97	90	35.93	35.73
408	60.13	-2.21	0.88	-1.27	25.572	34.561	0.88	-9.47	3.09	75	35.8	35.65
409	58.33	-2.34	0.84	-1.31	25.032	33.299	0.84	-9.57	3.18	60	35.68	35.58
410	56.59	-2.47	0.77	-1.38	24.649	31.939	0.77	-9.62	3.24	60	35.55	35.5
411	55.86	-2.53	0.75	-1.4	24.699	31.157	0.75	-9.62	3.28	60	35.56	35.44
412	55.02	-2.59	0.72	-1.43	24.697	30.322	0.72	-9.61	3.32	60	35.58	35.38
413	53.89	-2.68	0.67	-1.48	24.498	29.395	0.67	-9.6	3.35	60	35.59	35.32
414	52.24	-2.82	0.6	-1.55	23.868	28.368	0.6	-9.66	3.42	60	35.61	35.26
415	49.86	-3.02	0.51	-1.64	22.506	27.358	0.51	-9.73	3.54	60	35.62	35.2
416	48.6	-3.13	0.61	-1.54	20.961	27.642	0.61	-9.73	3.74	45	35.91	35.18
417	47.85	-3.2	0.77	-1.38	19.567	28.278	0.77	-10	3.97	45	36.2	35.15
418	48.97	-3.1	0.95	-1.2	19.741	29.232	0.95	-10.04	4.05	45	36.48	35.13
419	52.2	-2.82	1.17	-0.98	21.576	30.628	1.17	-9.61	3.99	45	36.77	35.1
420	56.98	-2.44	1.47	-0.68	24.35	32.631	1.47	-8.97	3.91	45	37.06	35.08
421	58.01	-2.36	1.61	-0.54	25.276	32.736	1.61	-8.92	3.97	45	36.68	34.96
422	59.02	-2.29	1.81	-0.34	25.712	33.309	1.81	-8.99	4.1	45	36.3	34.84
423	59.6	-2.25	2	-0.15	25.62	33.978	2	-9.17	4.24	45	35.92	34.73
424	59.21	-2.28	2.04	-0.11	25.207	34	2.04	-9.37	4.31	45	35.54	34.61
425	57.64	-2.39	1.88	-0.27	24.71	32.93	1.88	-9.56	4.27	45	35.16	34.49
426	57.56	-2.4	1.75	-0.4	25.054	32.509	1.75	-9.47	4.15	60	35.05	34.47
427	57.15	-2.43	1.6	-0.55	25.111	32.042	1.6	-9.47	4.03	60	34.94	34.45
428	56.86	-2.45	1.53	-0.62	24.848	32.016	1.53	-9.51	3.99	60	34.82	34.44
429	56.8	-2.46	1.57	-0.58	24.477	32.321	1.57	-9.58	4.02	60	34.71	34.42
430	56.87	-2.45	1.64	-0.51	24.215	32.651	1.64	-9.6	4.09	60	34.6	34.4
431	57.53	-2.4	1.75	-0.4	24.358	33.168	1.75	-9.55	4.15	60	34.55	34.4
432	58.28	-2.34	1.86	-0.29	24.679	33.606	1.86	-9.41	4.21	60	34.5	34.4
433	59.13	-2.28	1.97	-0.18	25.134	33.995	1.97	-9.23	4.26	60	34.45	34.4
434	60	-2.22	2.08	-0.07	25.662	34.337	2.08	-9.02	4.3	60	34.4	34.4
435	60.87	-2.16	2.18	0.03	26.22	34.651	2.18	-8.8	4.33	60	34.35	34.4
436	61.65	-2.1	2.26	0.11	26.772	34.879	2.26	-8.56	4.36	60	34.34	34.37
437	62.33	-2.05	2.34	0.19	27.261	35.07	2.34	-8.34	4.39	60	34.32	34.34
438	62.94	-2.01	2.41	0.26	27.666	35.275	2.41	-8.11	4.42	60	34.3	34.31
439	63.46	-1.98	2.49	0.34	27.956	35.501	2.49	-7.94	4.46	60	34.28	34.28
440	63.9	-1.94	2.56	0.41	28.115	35.788	2.56	-7.97	4.5	60	34.26	34.25
441	65.41	-1.84	2.68	0.53	28.693	36.721	2.68	-7.96	4.53	45	34.35	34.27
442	66.74	-1.76	2.78	0.63	29.161	37.574	2.78	-7.99	4.53	45	34.45	34.29
443	67.77	-1.69	2.82	0.67	29.554	38.218	2.82	-8.01	4.51	45	34.54	34.31
444	68.48	-1.64	2.82	0.67	29.908	38.576	2.82	-8.04	4.46	45	34.63	34.33
445	68.95	-1.61	2.78	0.63	30.225	38.726	2.78	-8.09	4.39	60	34.72	34.35
446	67.83	-1.69	2.64	0.49	29.848	37.981	2.64	-8.28	4.32	120	34.7	34.31
447	66.73	-1.76	2.51	0.36	29.462	37.265	2.51	-8.49	4.26	105	34.68	34.26
448	65.7	-1.82	2.4	0.25	29.09	36.608	2.4	-8.76	4.23	105	34.66	34.21
449	64.75	-1.89	2.31	0.16	28.772	35.974	2.31	-9.06	4.2	105	34.64	34.16
450	63.89	-1.95	2.23	0.08	28.537	35.356	2.23	-9.38	4.18	105	34.62	34.11

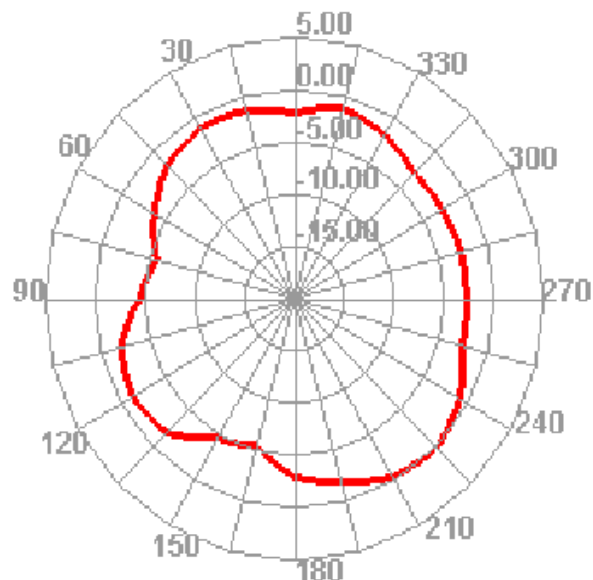
400.000MHz



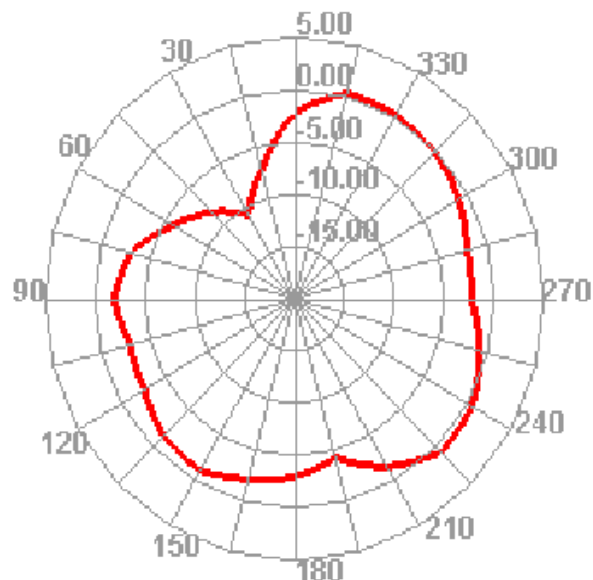
400.000MHz H



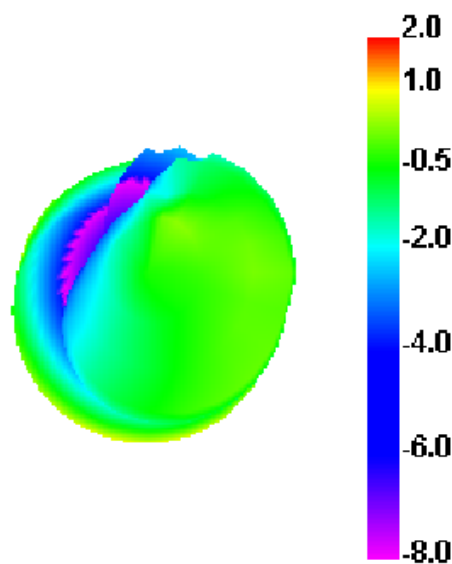
400.000MHz E1



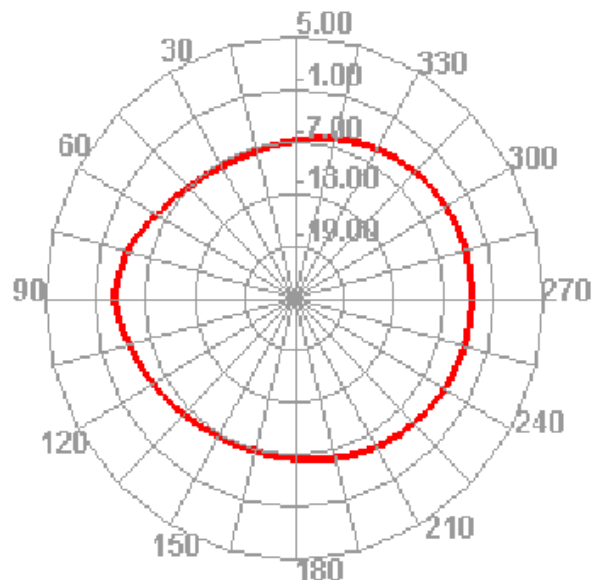
400.000MHz E2



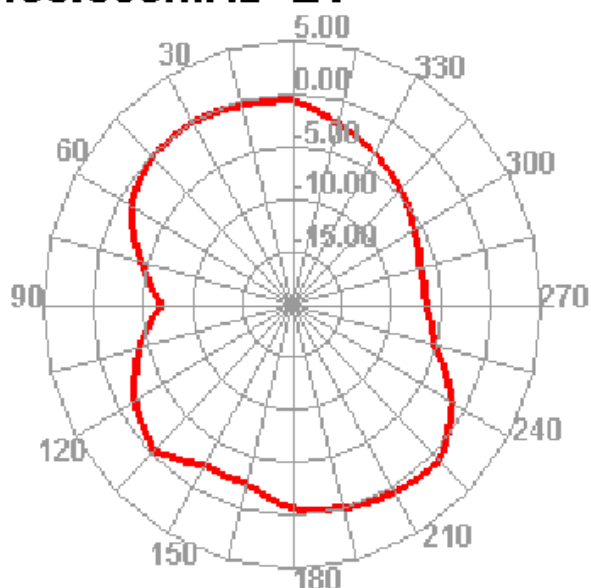
433.000MHz



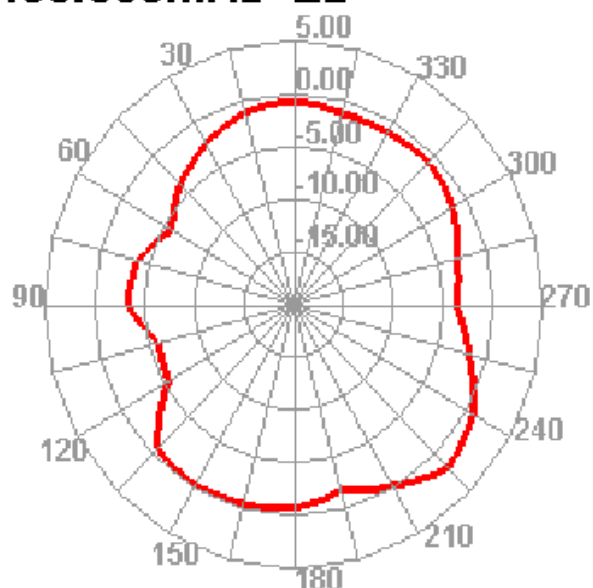
433.000MHz H



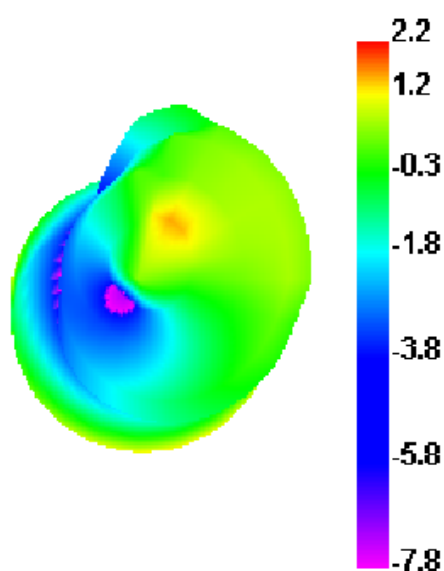
433.000MHz E1



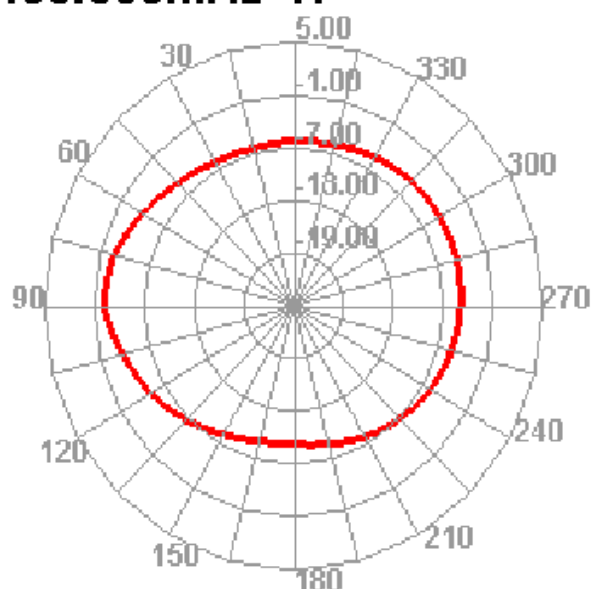
433.000MHz E2



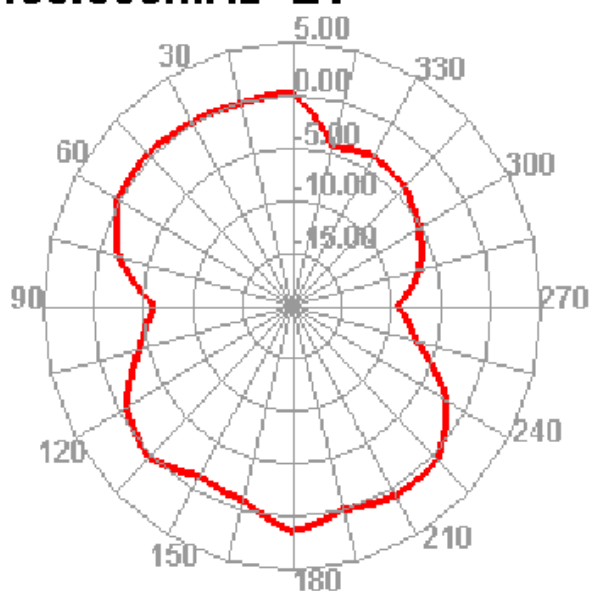
450.000MHz



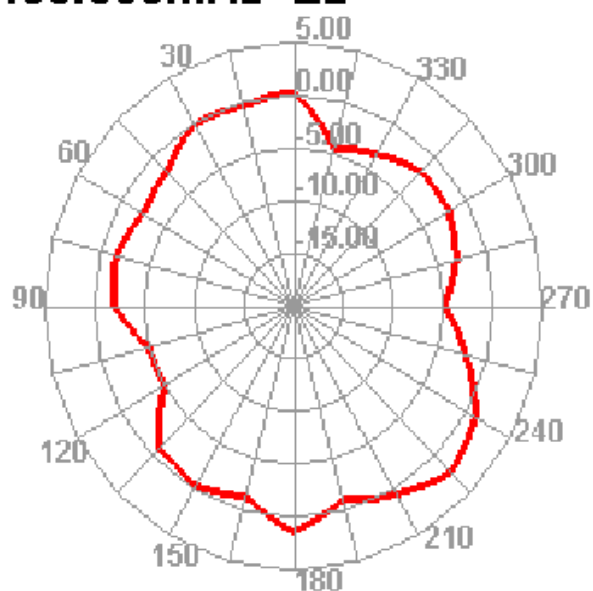
450.000MHz H



450.000MHz E1



450.000MHz 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

