

13F, Building 120, Yitian Village, No. 1005 Yitian Road, Yitian Community, Fubao Street, Futian District, Shenzhen

产 品 规 格 书

Product Specification

名 称/Name: GPT45 LTE ANT

产品型号/Model: 02.40031209

物料编号/Material NO: WYT-CAT-S-0017

编 制/Author: He

审 核/Review: Zhu Caiyan

核 准/Approval: Austin

日 期/Date: 2024-5-17

客户审批项 Customer Approved	审核/Review	
	核准/APPoval	
	请确认后签名盖章回传我司 Please sing and stamp then fax back	(盖章处) Stamp here

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1.Indication

This report summarizes the electrical performance results of the proposed Internal antenna to support GPT45 CATM1 program. The antenna is an assemblyband&CATM1-B1/B2/B3/B4/B5/B7/B8/B12/B13//B20/B25/B28/B66

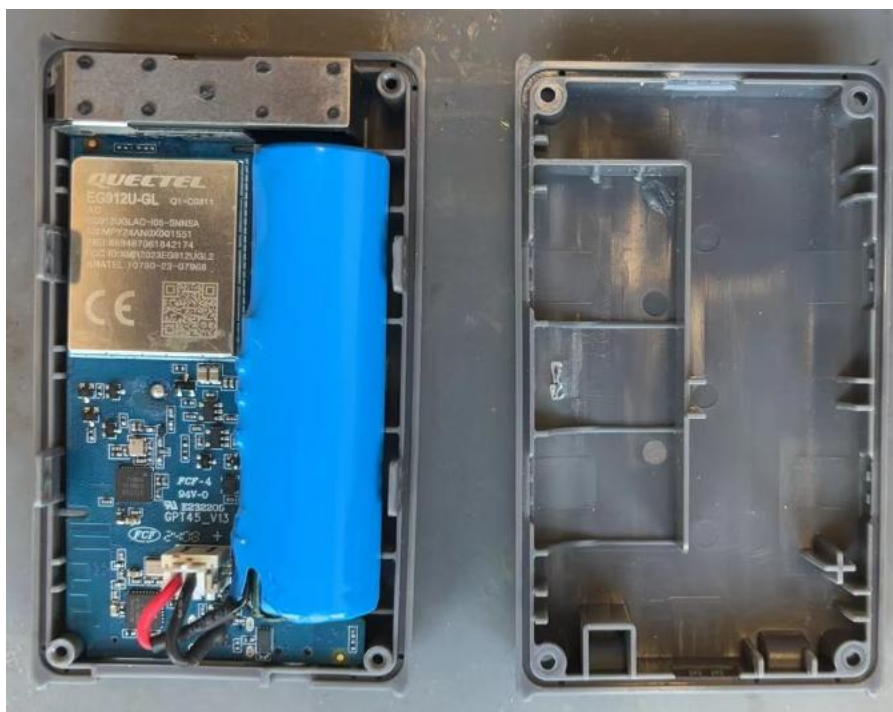


Figure 1: Proposed Antenna

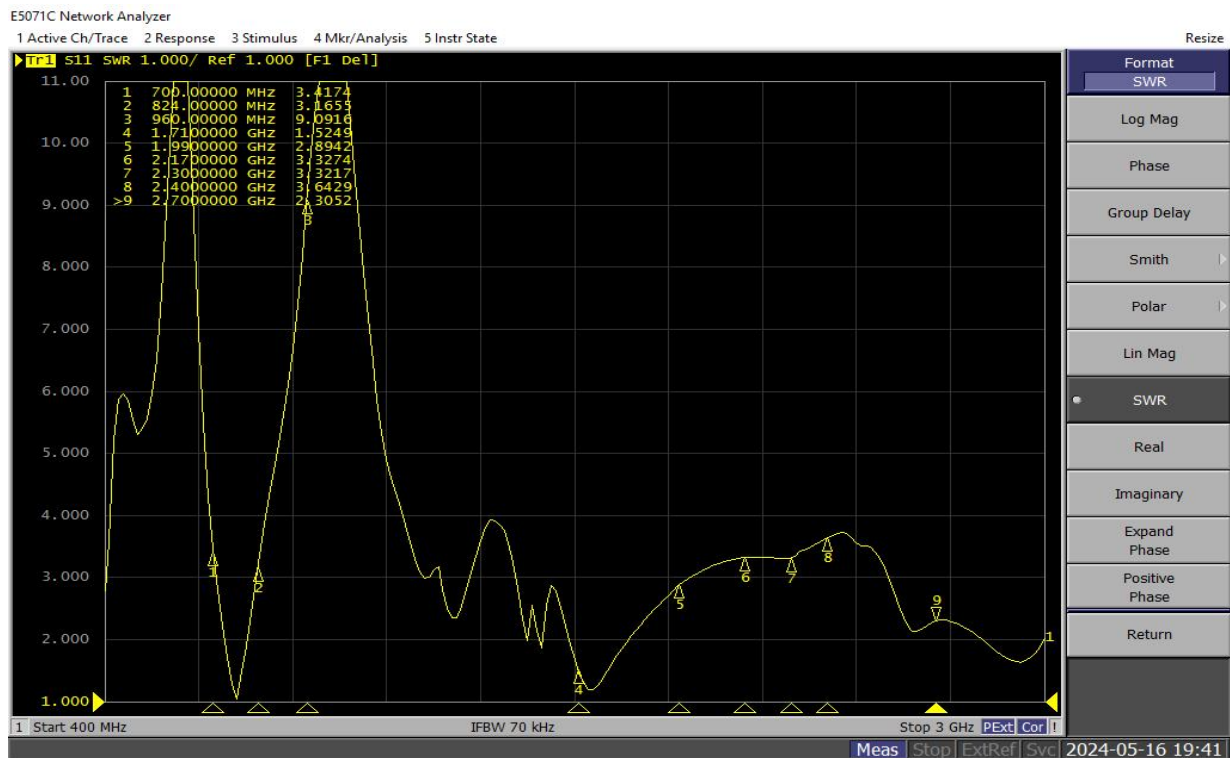
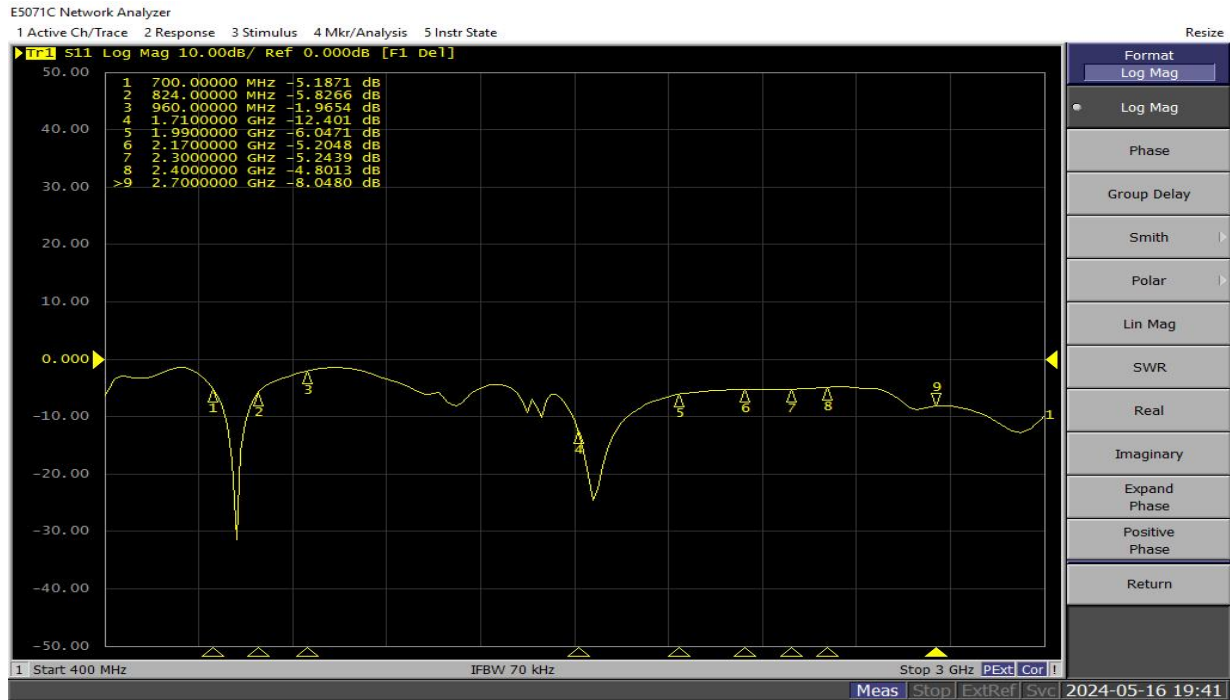
2.General Information

- This approval sheet supports for GPT45 CATM1 project.
One internal antennas include in this project. This report is for the performance of CATM1 antenna.
- Antenna shape size: Meet the requirement of GPT45 CATM1.
- Antenna material: Antenna material meet the requirement of GPT45 CATM1.
- Adhesive performance: Adhesive performance meet the requirement of GPT45 CATM1.
- Antenna performance meet the spec below:

Description	824MHz~8960 MHz	1710MHz~2170 MHz	Units
Antenna Efficiency	≥35	≥45	%
Return Loss	≤-5	≤-5	dB
S11 Input VSWR	≤3	≤3	
Feed Impedance	50 ohms		

3.Measurement information

3.1. S11

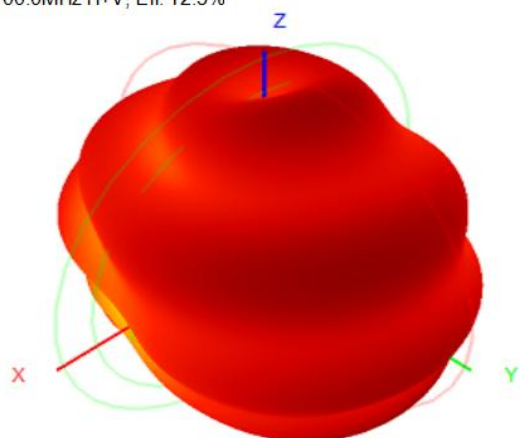


Antenna Gain Efficiency:

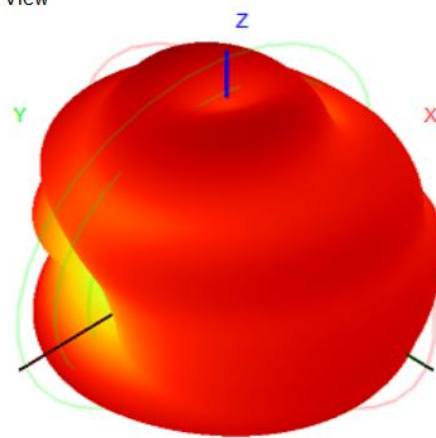
Frequency ID	1	2	3	4	5	6	7
Frequency (MHz)	700.0	800.0	900.0	1700.0	1800.0	1900.0	2000.0
Efficiency (dBi)	-9.10	-3.17	-6.86	-5.65	-4.03	-4.43	-5.98
Gain (dBi)	-5.20	0.26	-3.26	-0.47	-0.28	-0.46	-0.91
Efficiency (%)	12.29	48.21	20.59	27.23	39.54	36.07	25.24
Directivity (dB)	3.90	3.43	3.61	5.18	3.75	3.97	5.07
Frequency ID	8	9	10	11	12	13	14
Frequency (MHz)	2100.0	2200.0	2300.0	2400.0	2500.0	2600.0	2700.0
Efficiency (dBi)	-6.57	-6.38	-6.09	-5.94	-5.29	-3.90	-3.30
Gain (dBi)	-1.57	-1.61	-1.38	-1.46	-0.88	1.42	2.88
Efficiency (%)	22.04	23.03	24.61	25.46	29.57	40.73	46.81
Directivity (dB)	5.00	4.77	4.71	4.48	4.41	5.32	6.17

Antenna Passive Test Report:

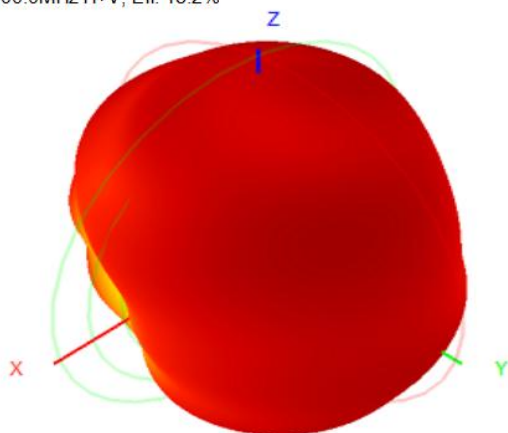
700.0MHz H+V, Eff. 12.3%



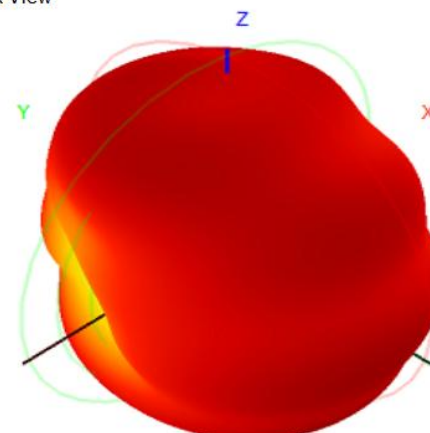
Back View

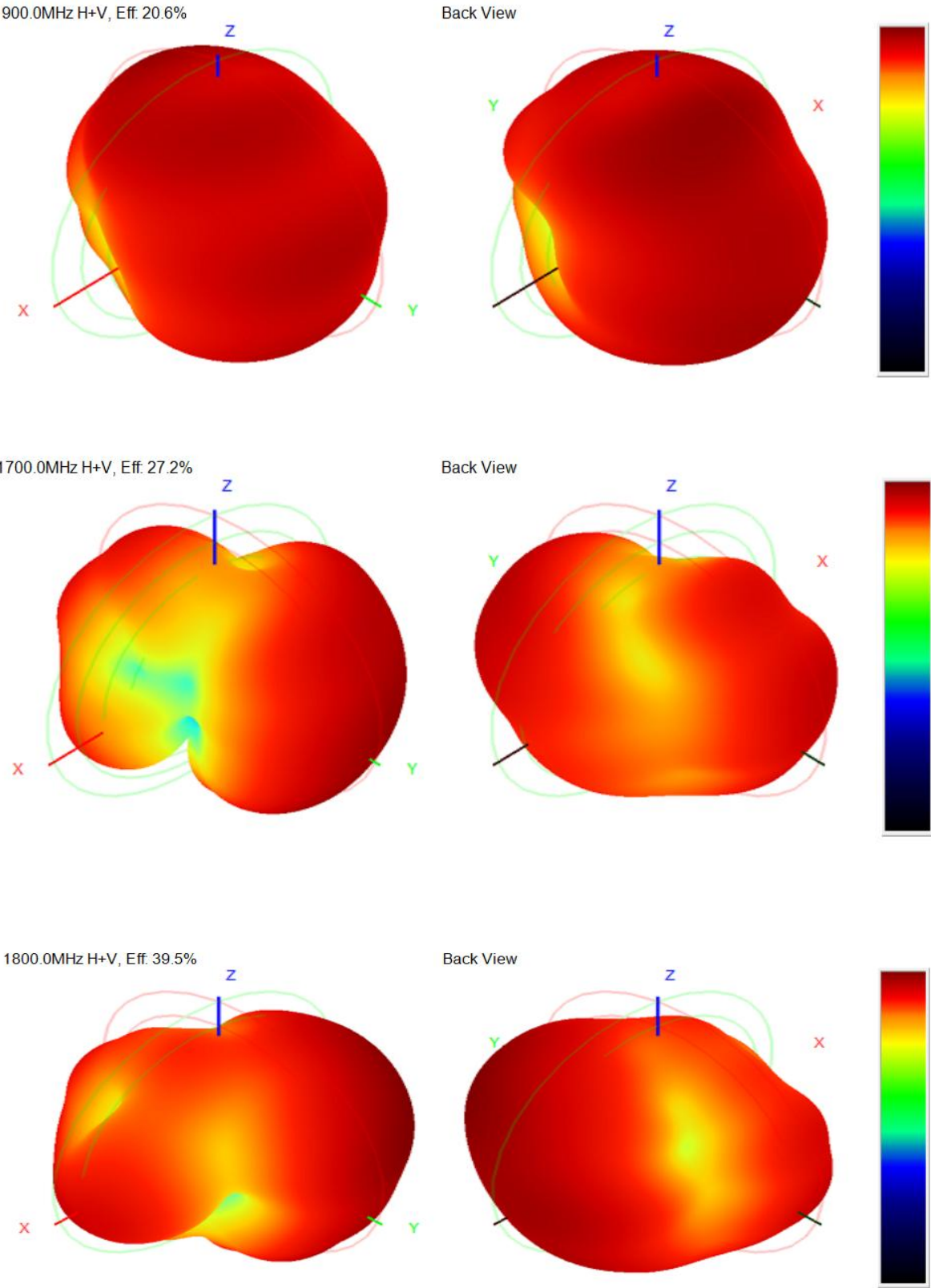


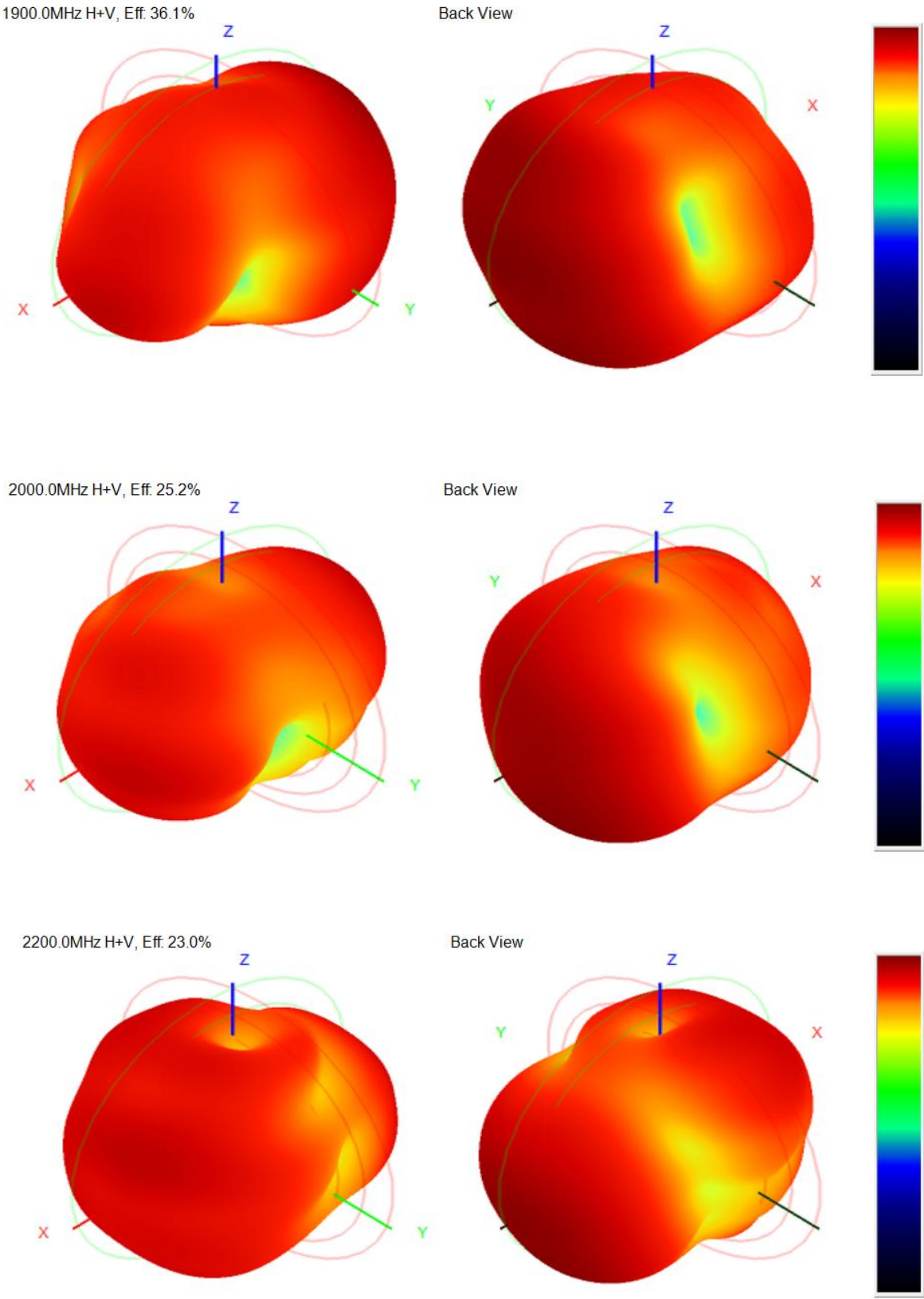
800.0MHz H+V, Eff. 48.2%



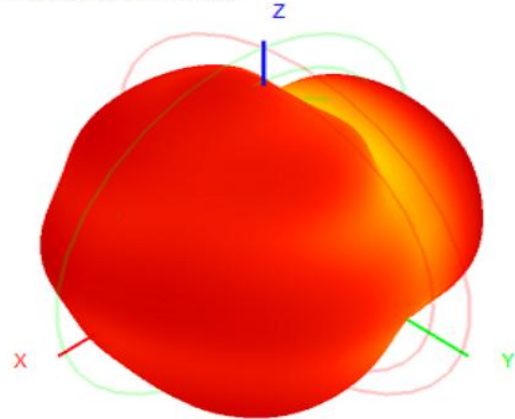
Back View



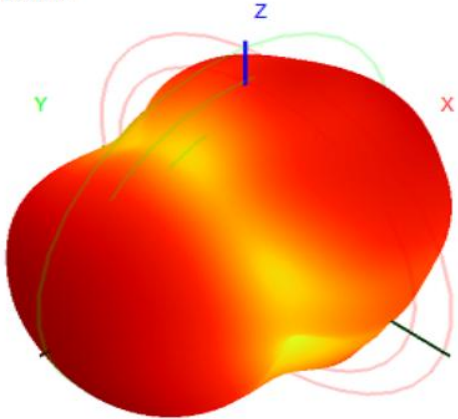




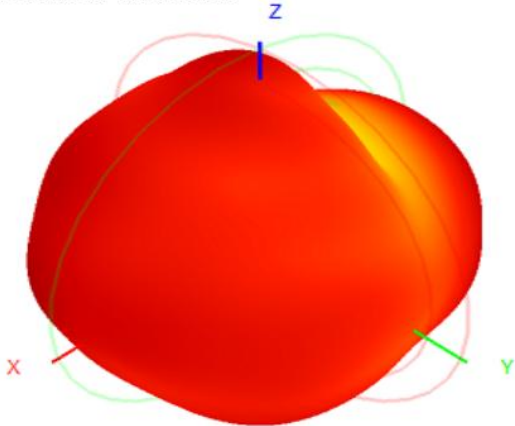
2300.0MHz H+V, Eff. 24.6%



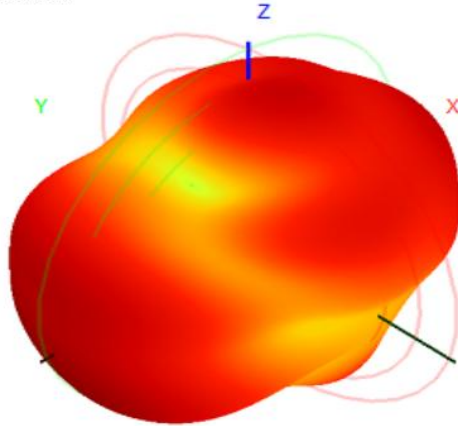
Back View



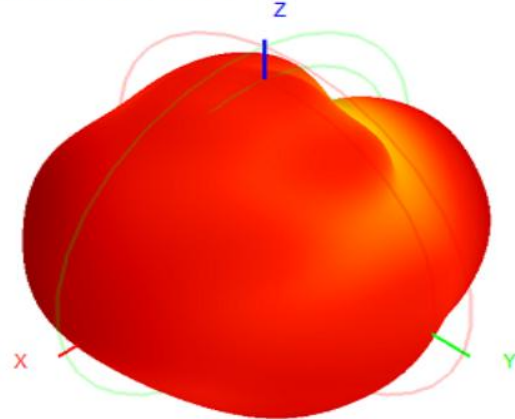
2400.0MHz H+V, Eff. 25.5%



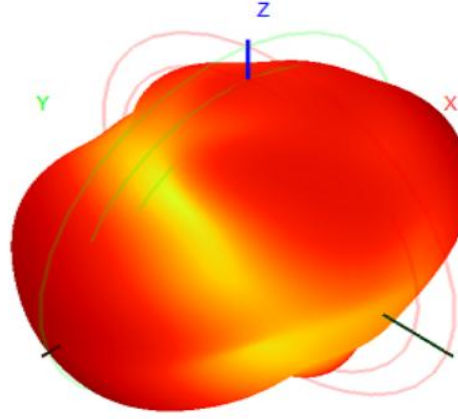
Back View

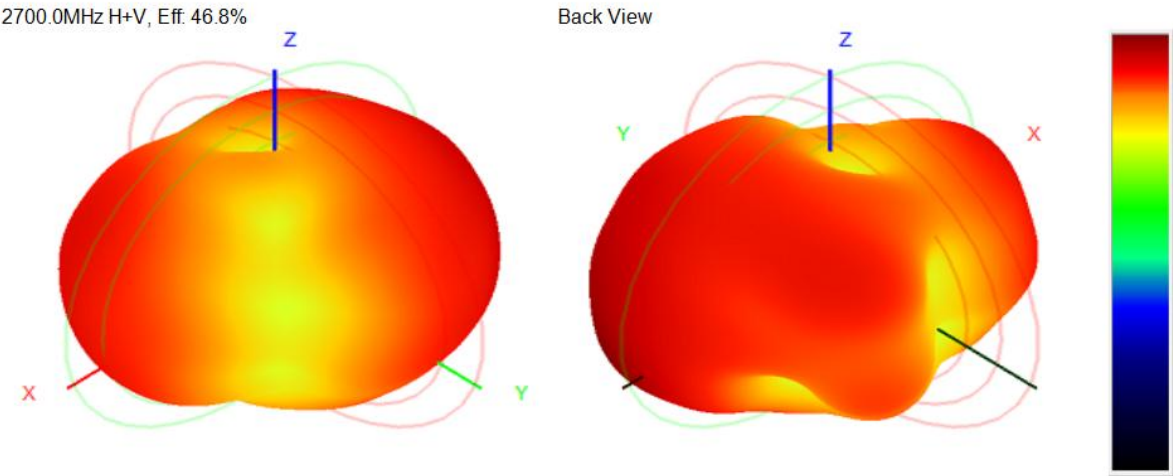
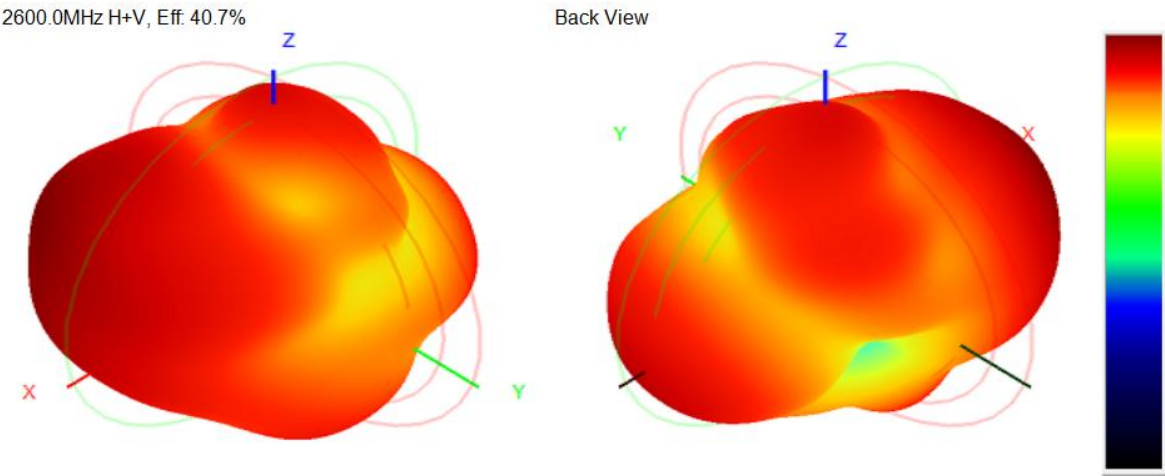


2500.0MHz H+V, Eff. 29.6%

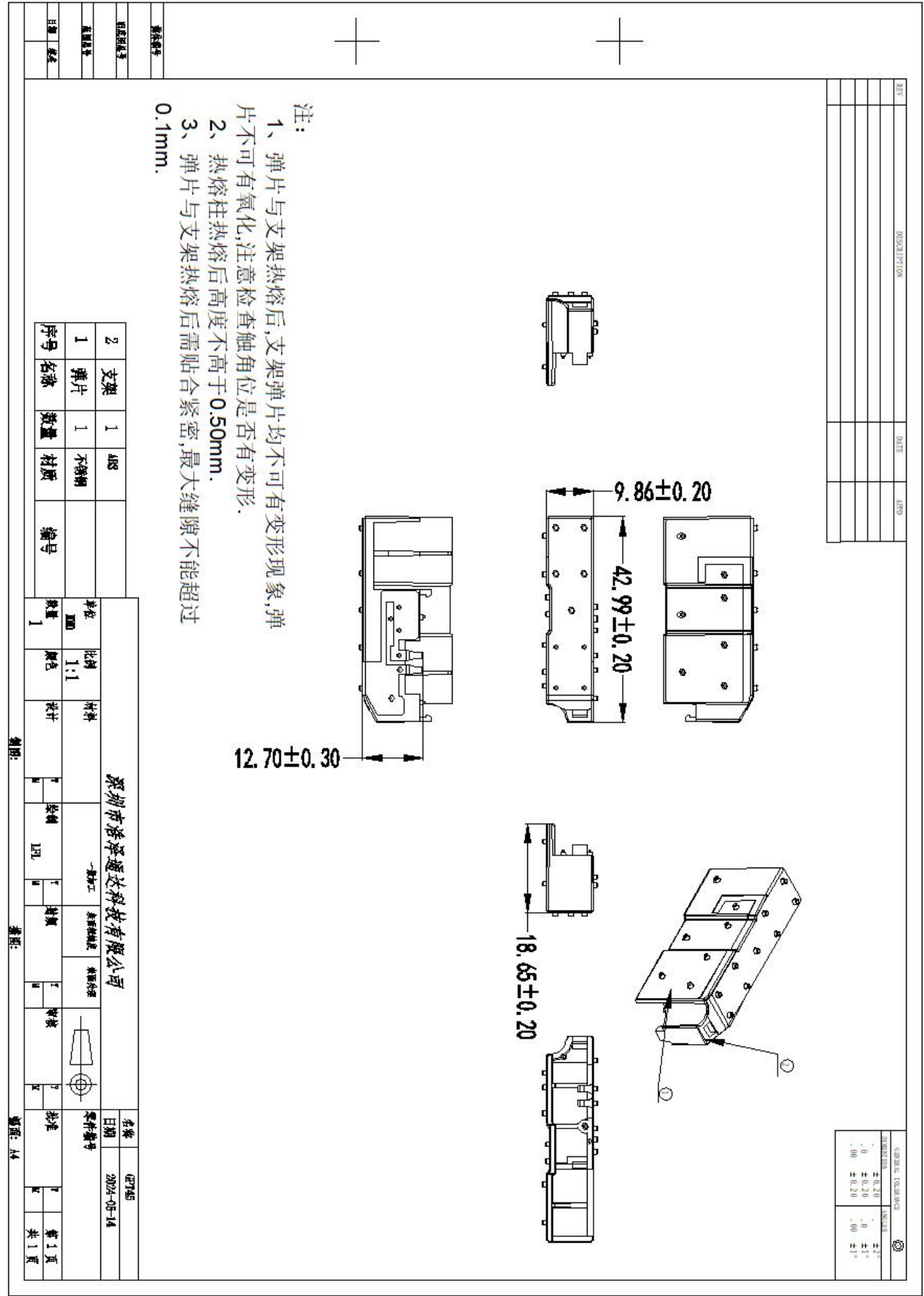


Back View





4. Appearance drawing



5.TRP&TIS

GPT45_ CATM1 3D TEST REPORT

		B1	B2	B3	B4	B5	B7	B8	备注
GPT45-4G 20240517		18050	18650	19250	20000	20450	20850	21500	5月17日新 寄来的量产 样机+开模 支架/钢片天 线
	TRP	18.47	18.34	17.26	17.33	16.04	14.69	15.58	
	TIS	-85.31	-90.51	-86.11	-85.47	-91.26	-90.01	-85.13	
		B12	B13	B20	B25	B28	B66		
		23050	23230	24200	26065	27260	132022		
	TRP	15.33	16.73	16.73	17.93	15.76	16.56		
	TIS	-92.51	-93.06	-93.06	-89.44	-93.05	-85.80		