

Antenna Specification

名 称/Name: CC521 LTE ANT

产品型号/Model: 02.40031196

物料编号/Material NO: WYT-CAT-F-0005

编 制/Author: He

审 核/Review: Zhu Caiyan

核 准/Approval: Austin

日 期/Date: 2023-09-13

客户审批项 Customer Approved	审核/Review	
	核准/APProval	
	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 CC521 CATM1 program. The antenna is an assemblyband&CATM1-B1/B2/B3/B4/B5/B8/B12/B13/B20/B25/B26/B28/B66/B85/GSM850/900/1800/1900.

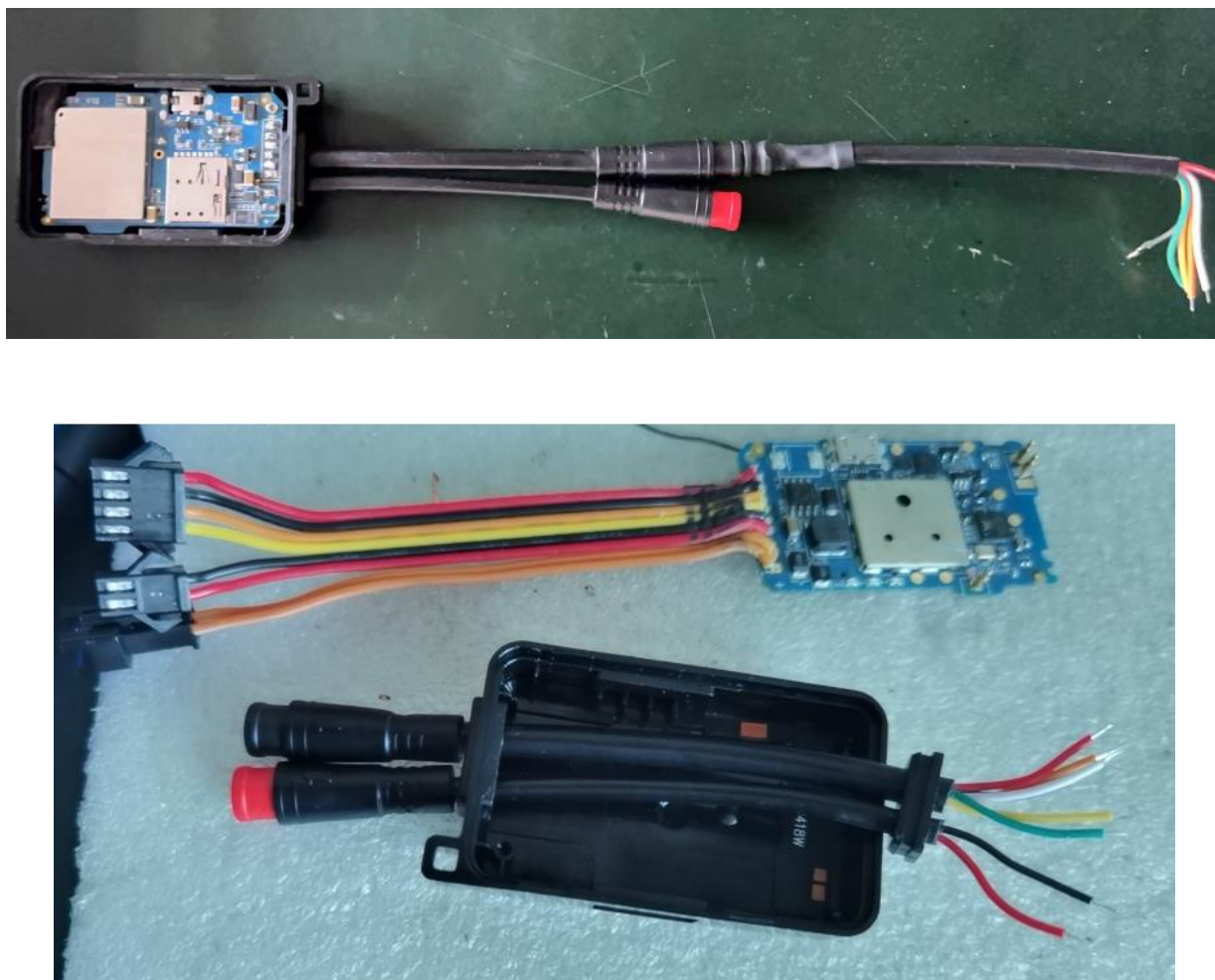


Figure 1: Proposed Antenna

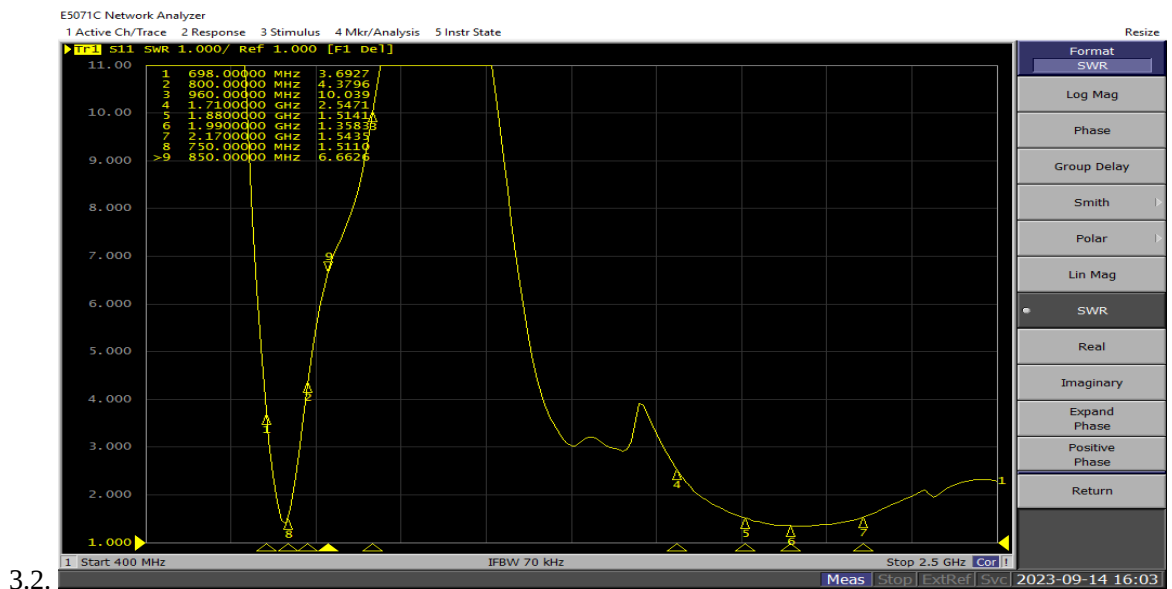
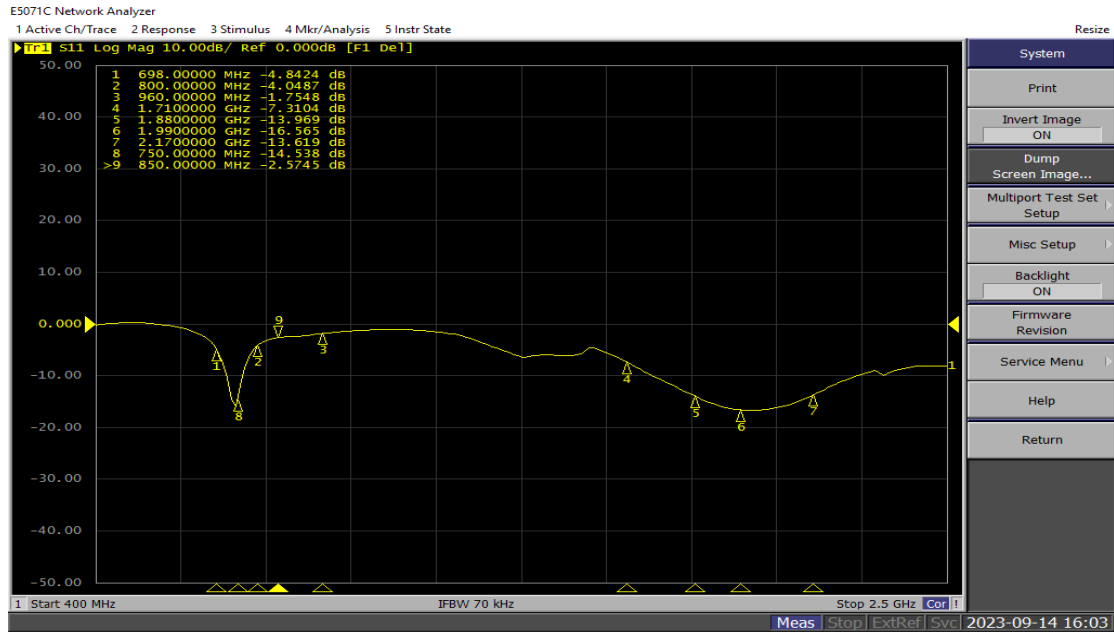
2.General Information

- This approval sheet supports for CC521 CATM1 project.
One internal antenna include in this project. This report is for the performance of CATM1 antenna.
- Antenna shape size: Meet the requirement of CC521 CATM1.
- Antenna material: Antenna material meet the requirement of CC521 CATM1.
- Adhesive performance: Adhesive performance meet the requirement of CC521 CATM1.
- Antenna performance meet the spec below:

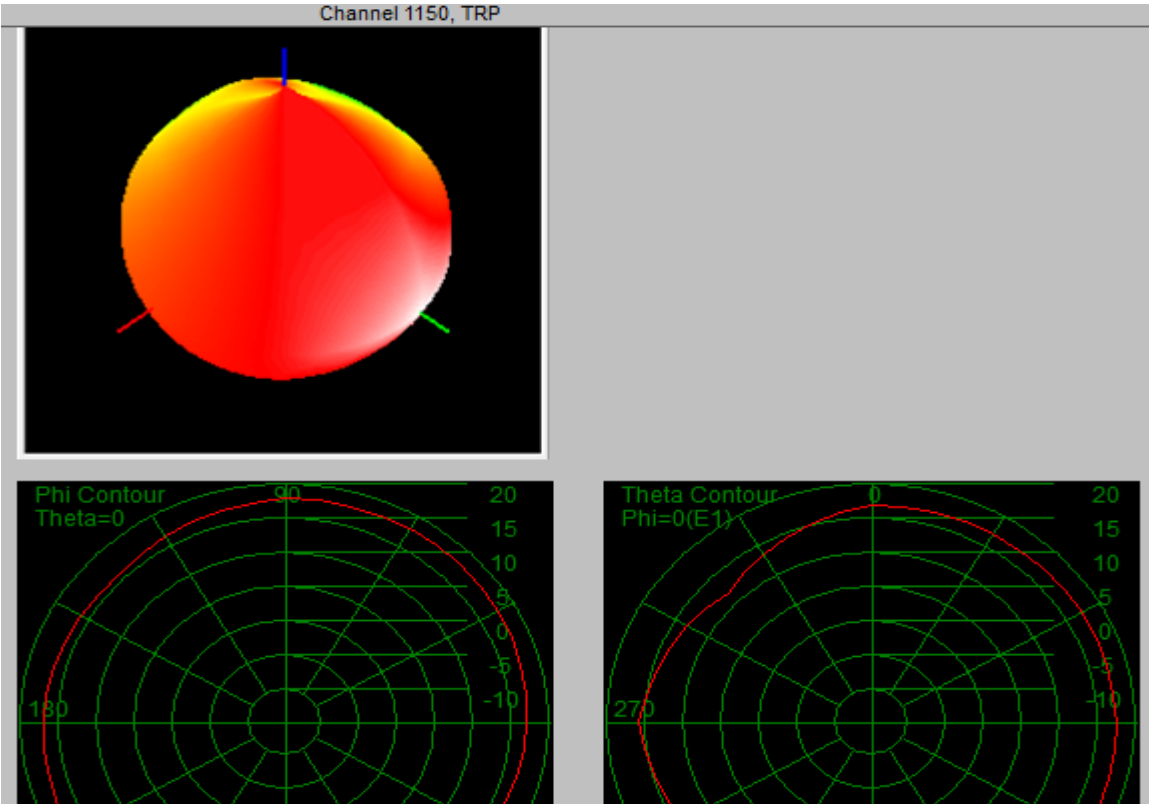
Description	824MHz~8960 MHz	1710MHz~2170 MHz	Units
Antenna Efficiency	≥ 35	≥ 45	%
Return Loss	≤ -5	≤ -5	dB
S11 Input VSWR	≤ 3	≤ 3	
Feed Impedance	50 ohms		

3.OTA measurement information

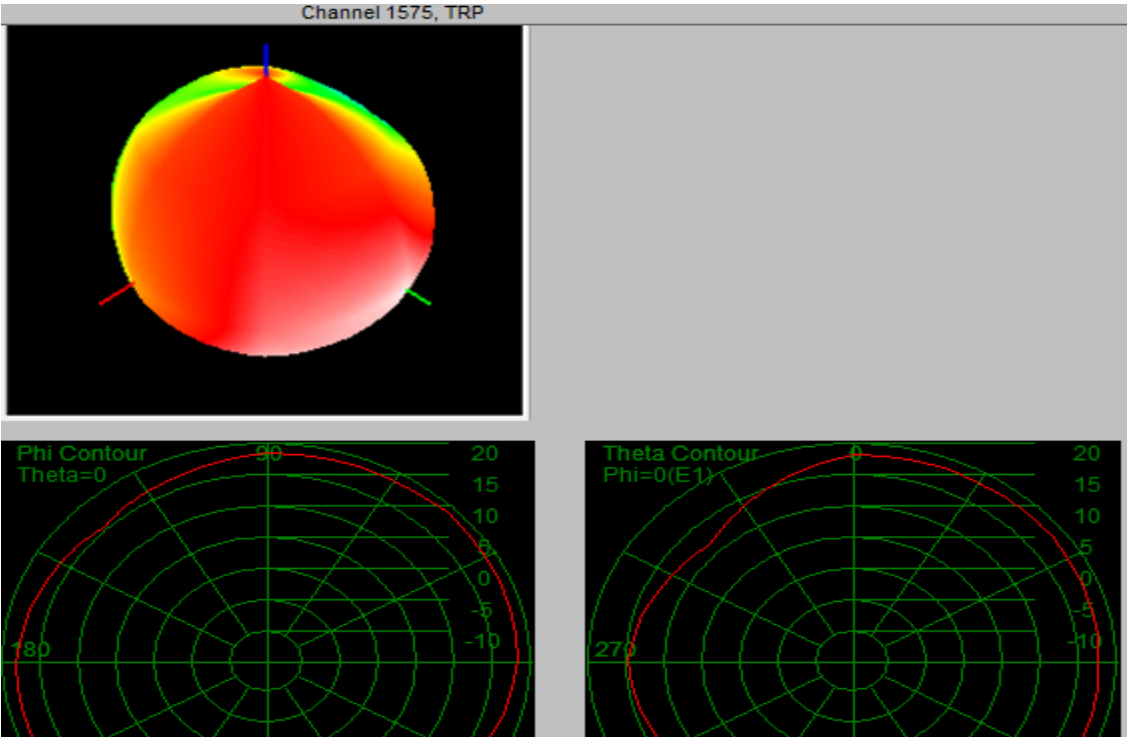
3.1. S11



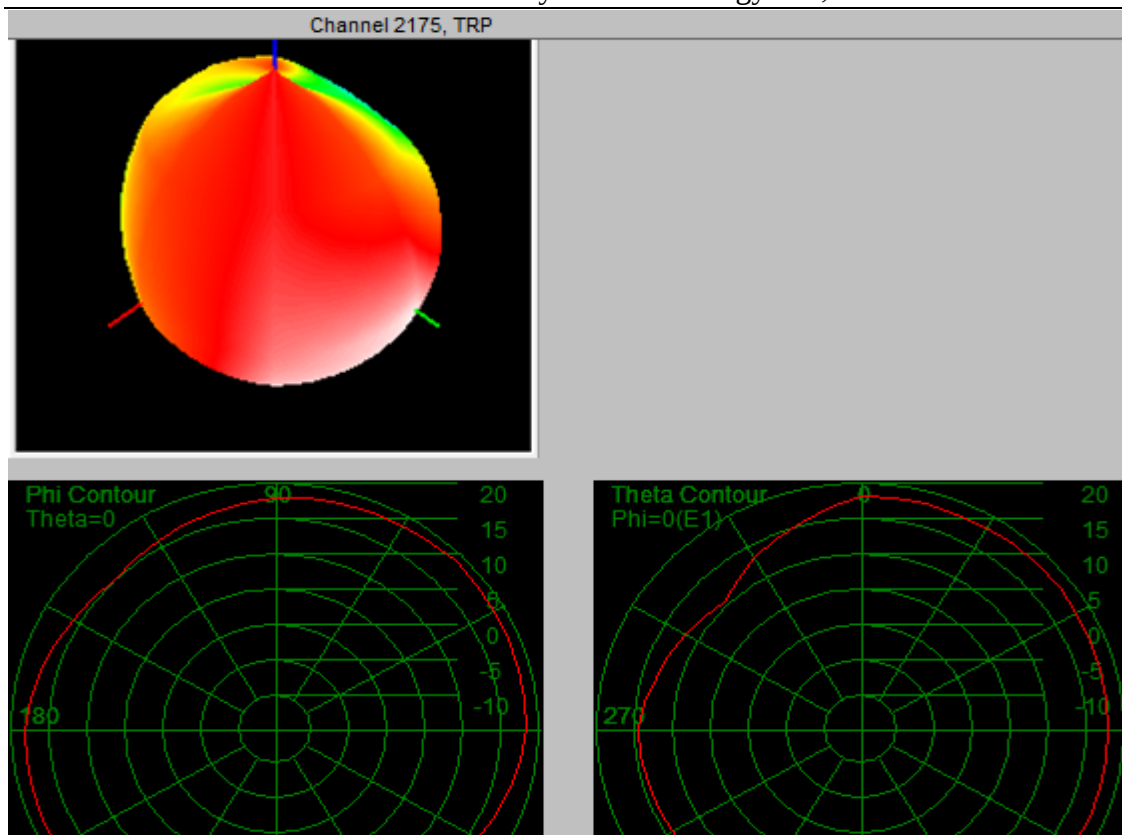
3.2.



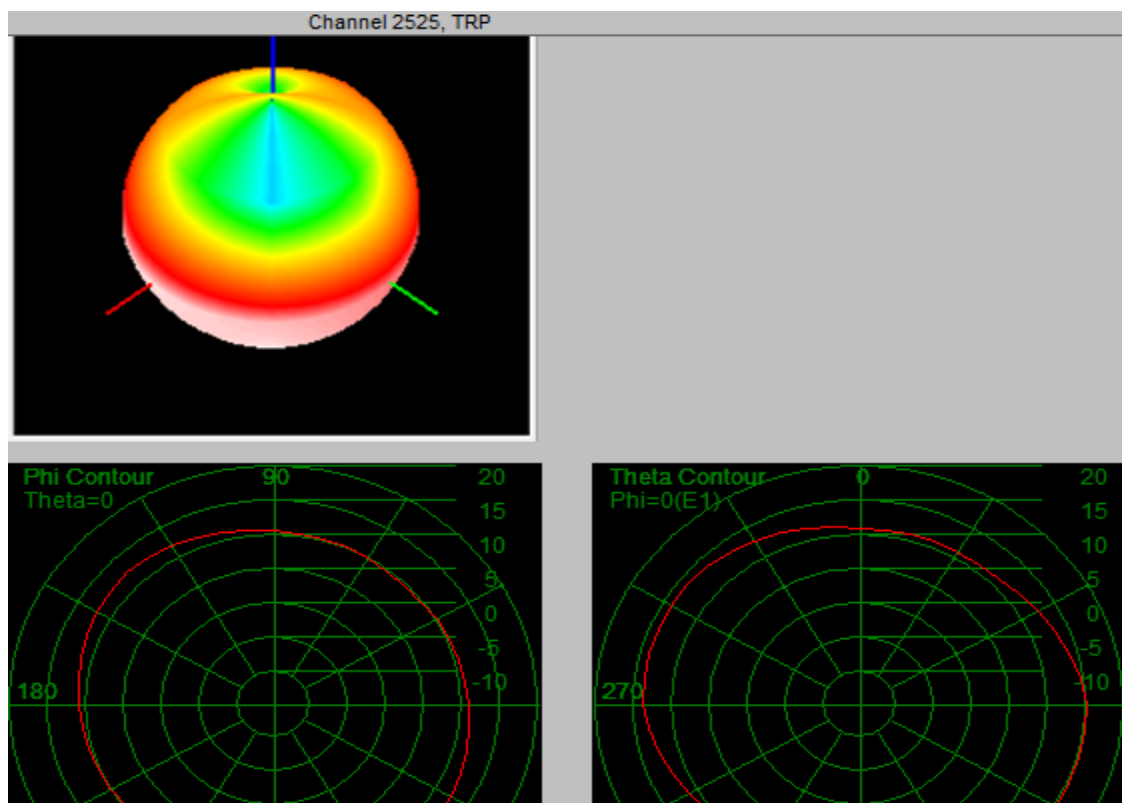
B2



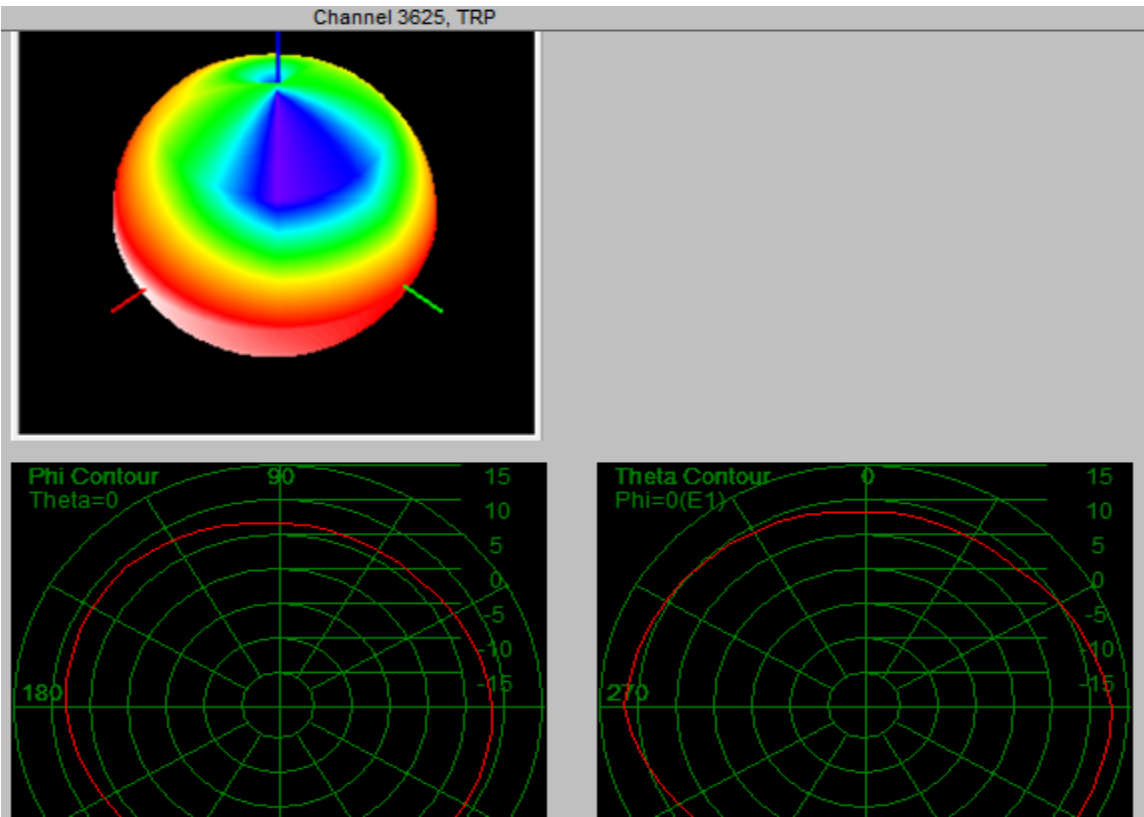
B3



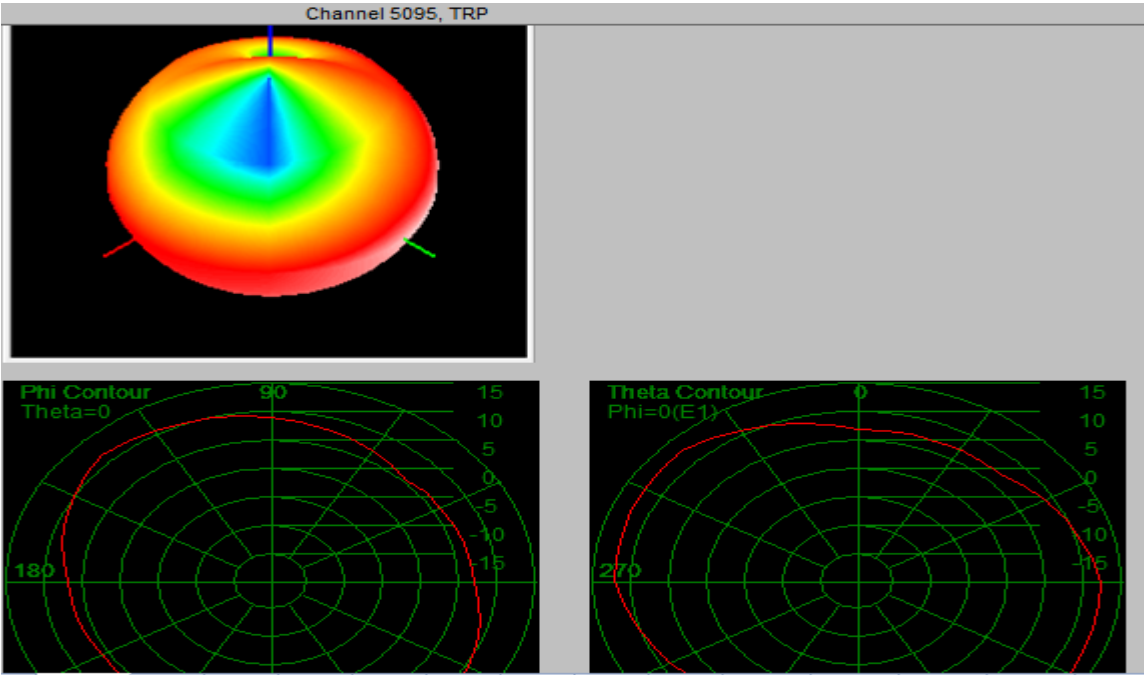
B4



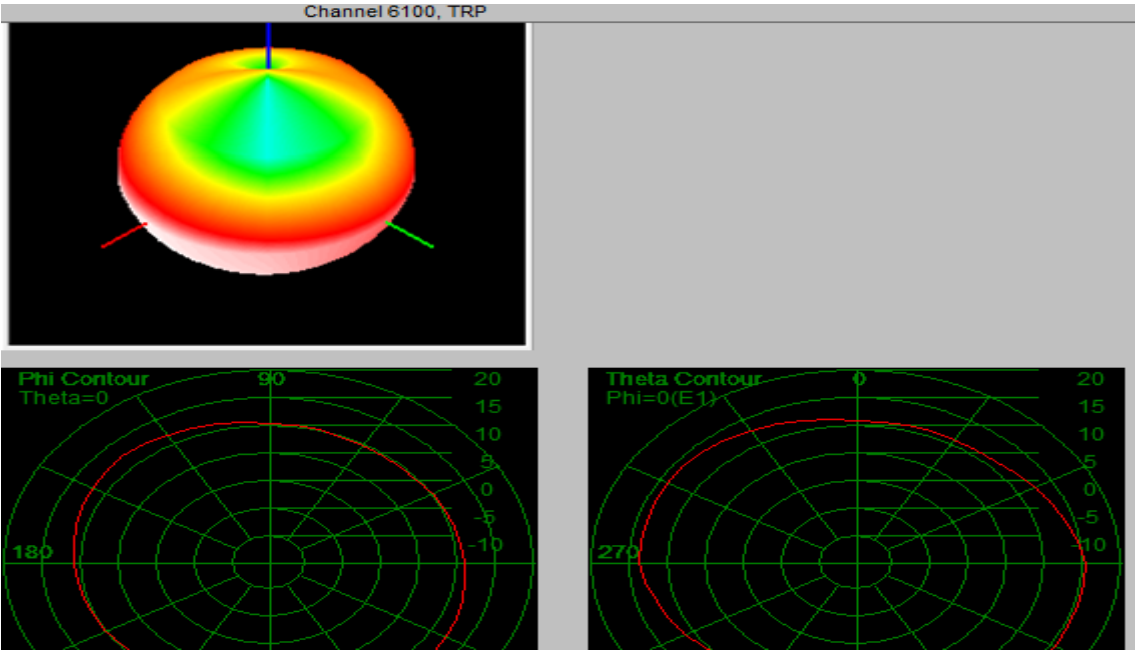
B5/B26



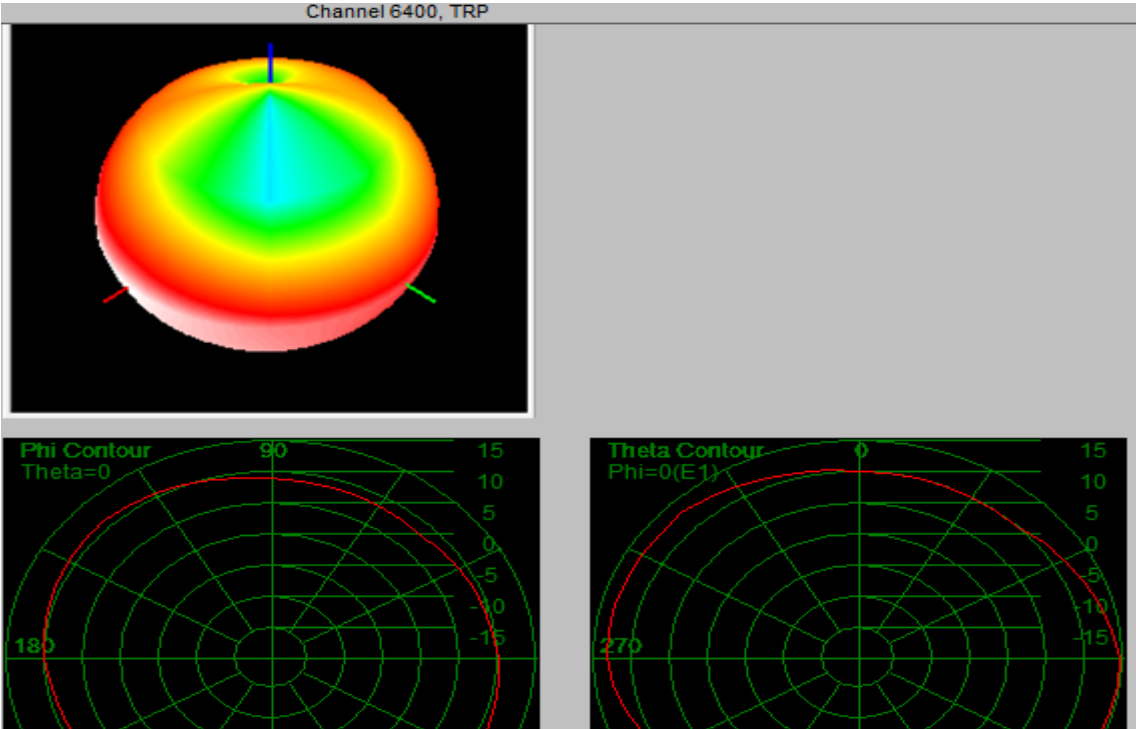
B8



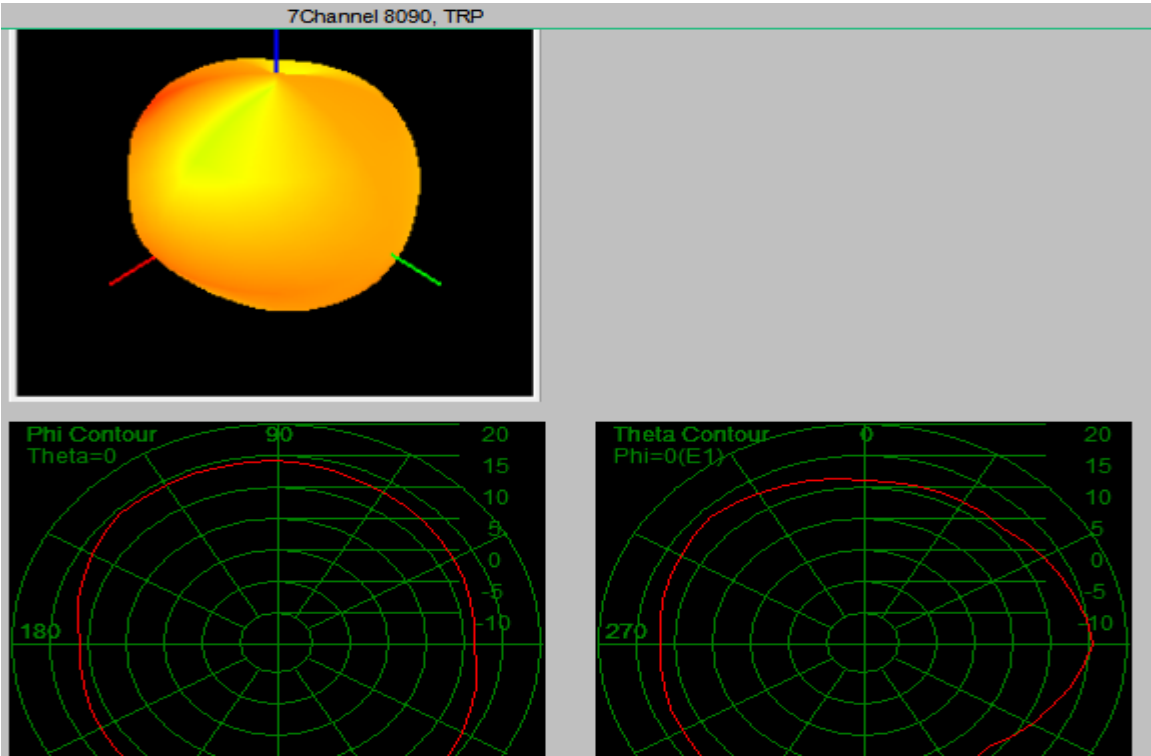
B12



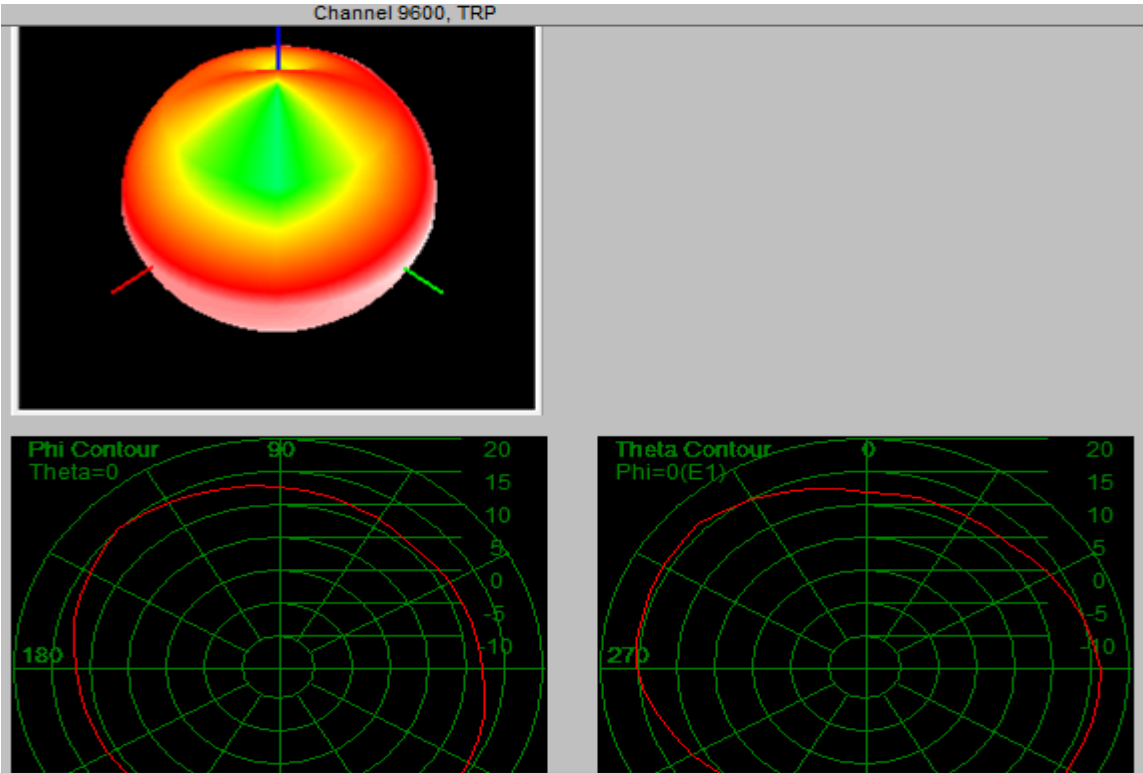
B13



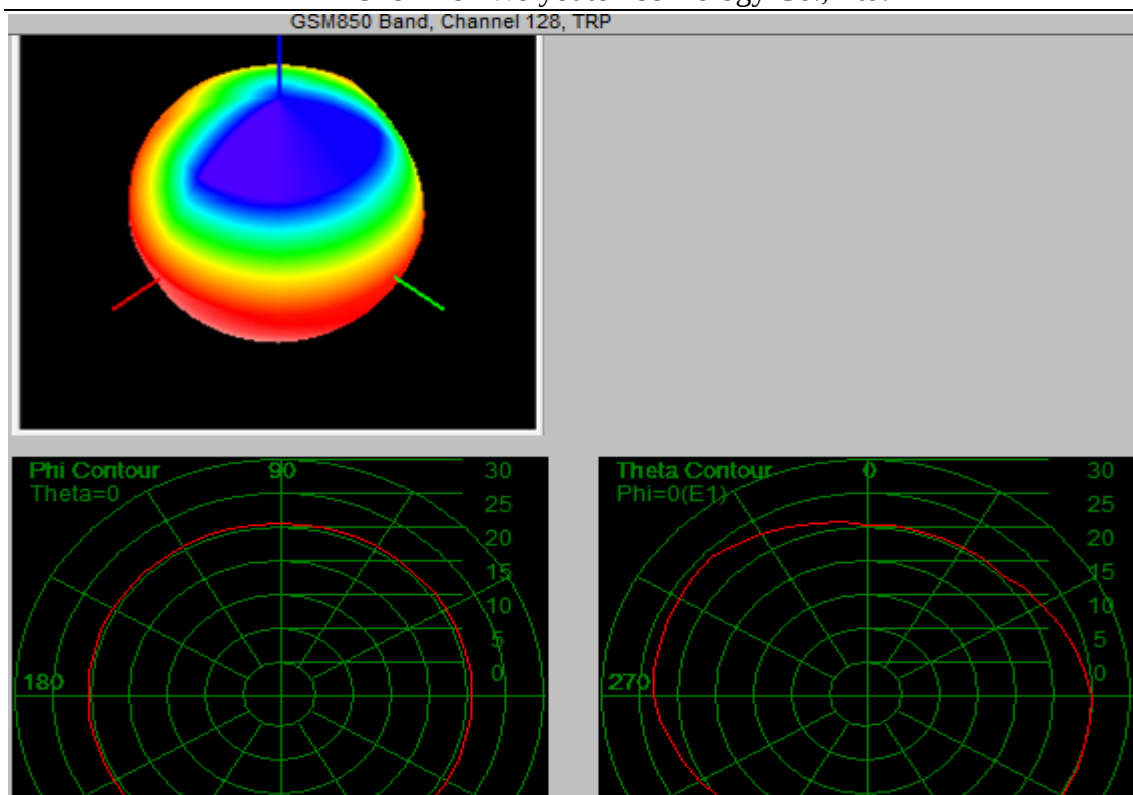
B20



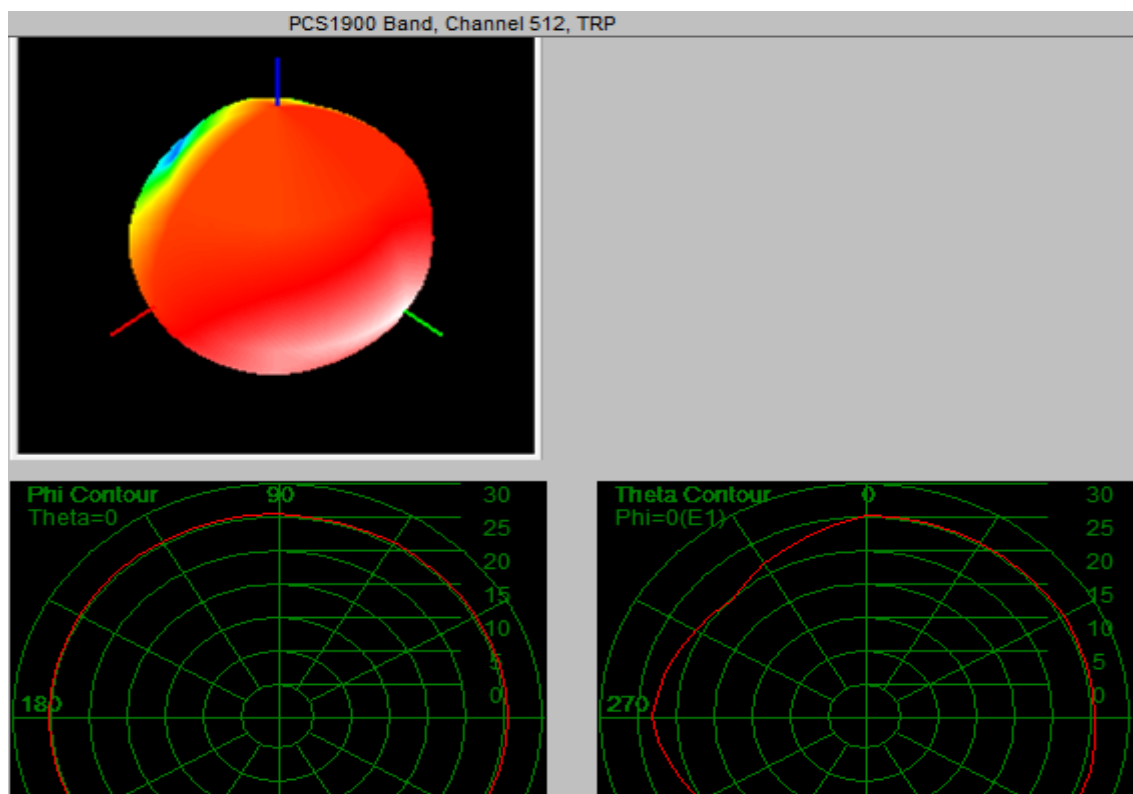
B25



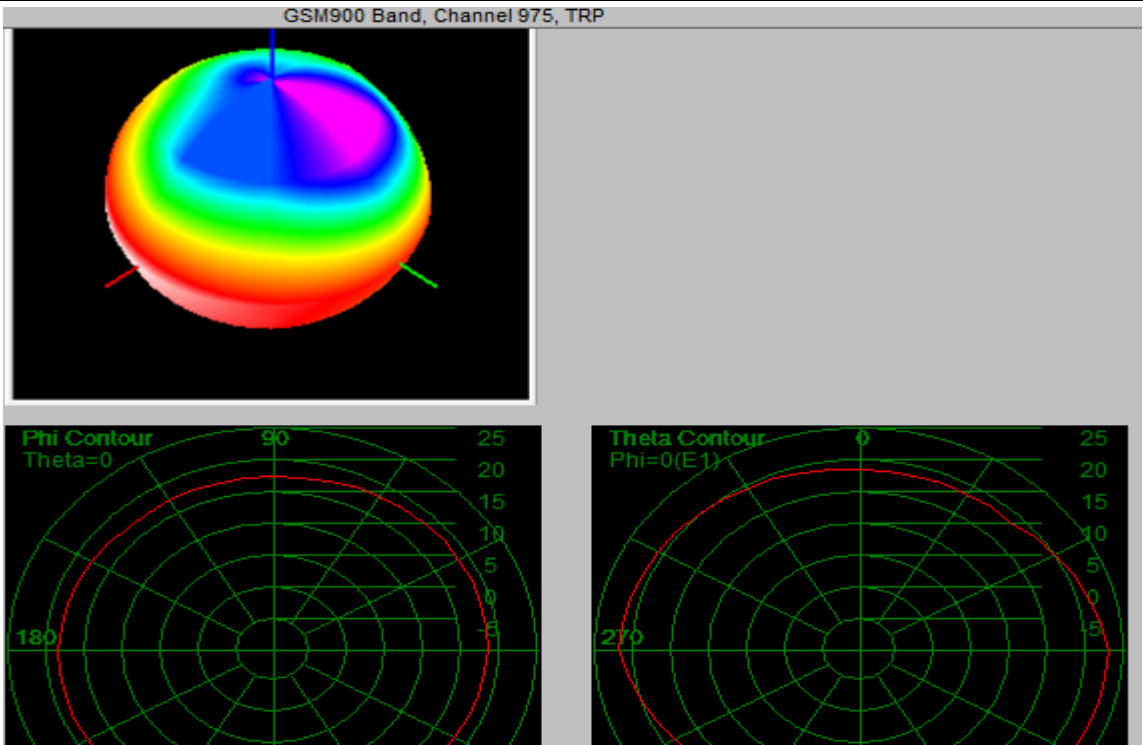
B28



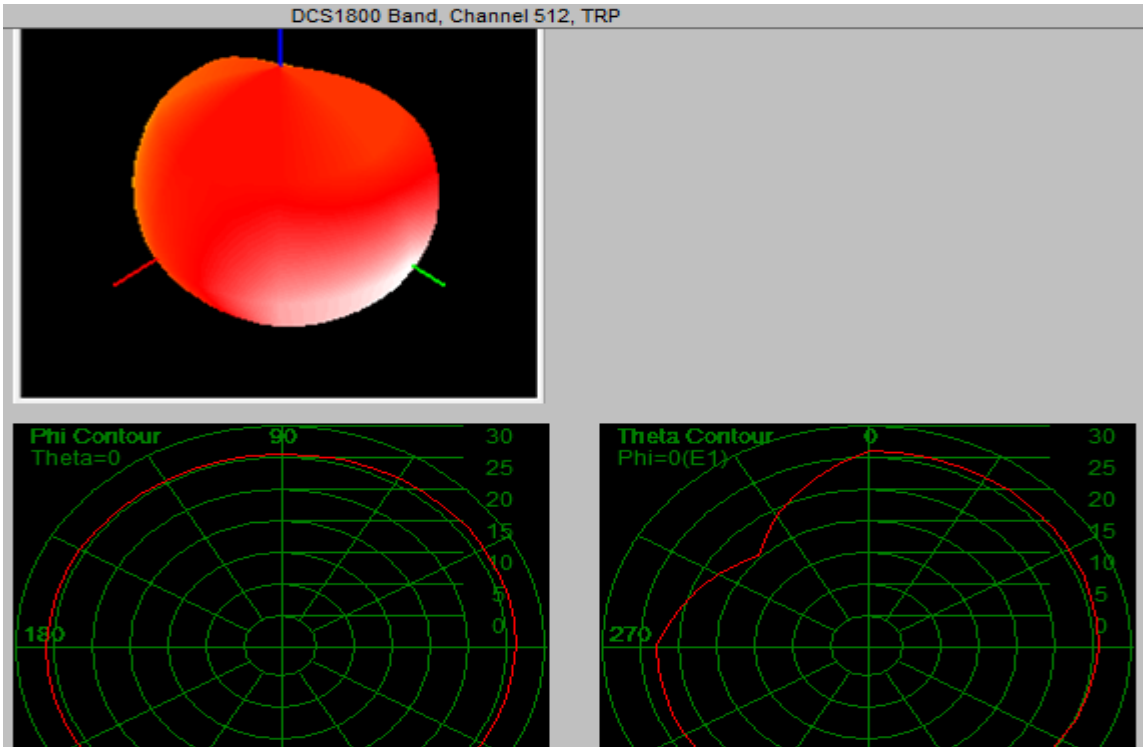
850



1900



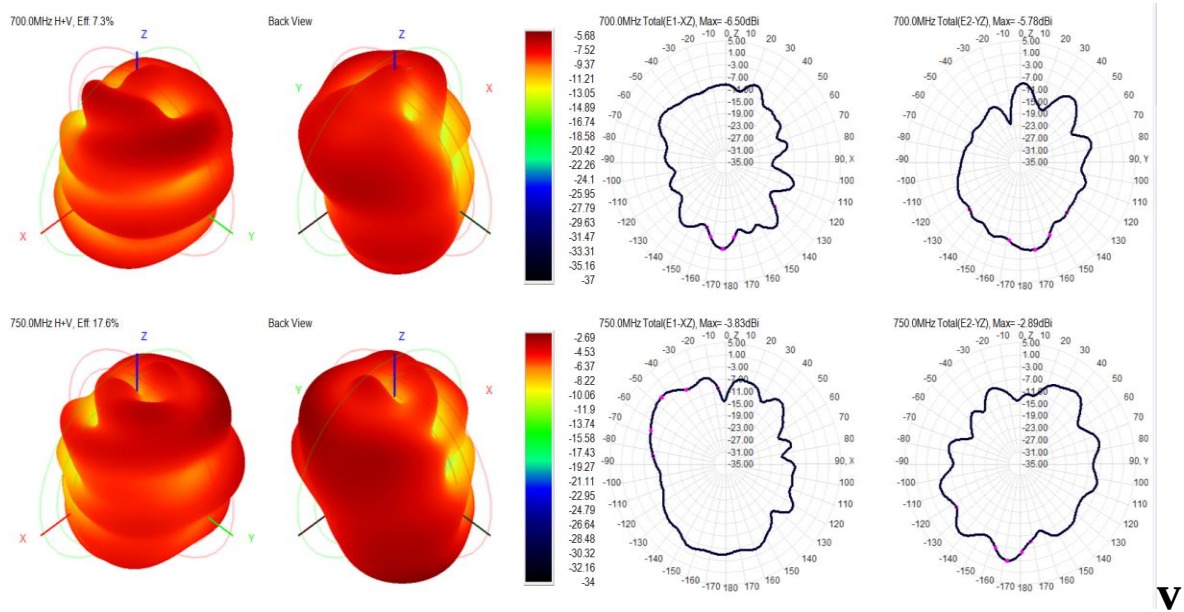
900

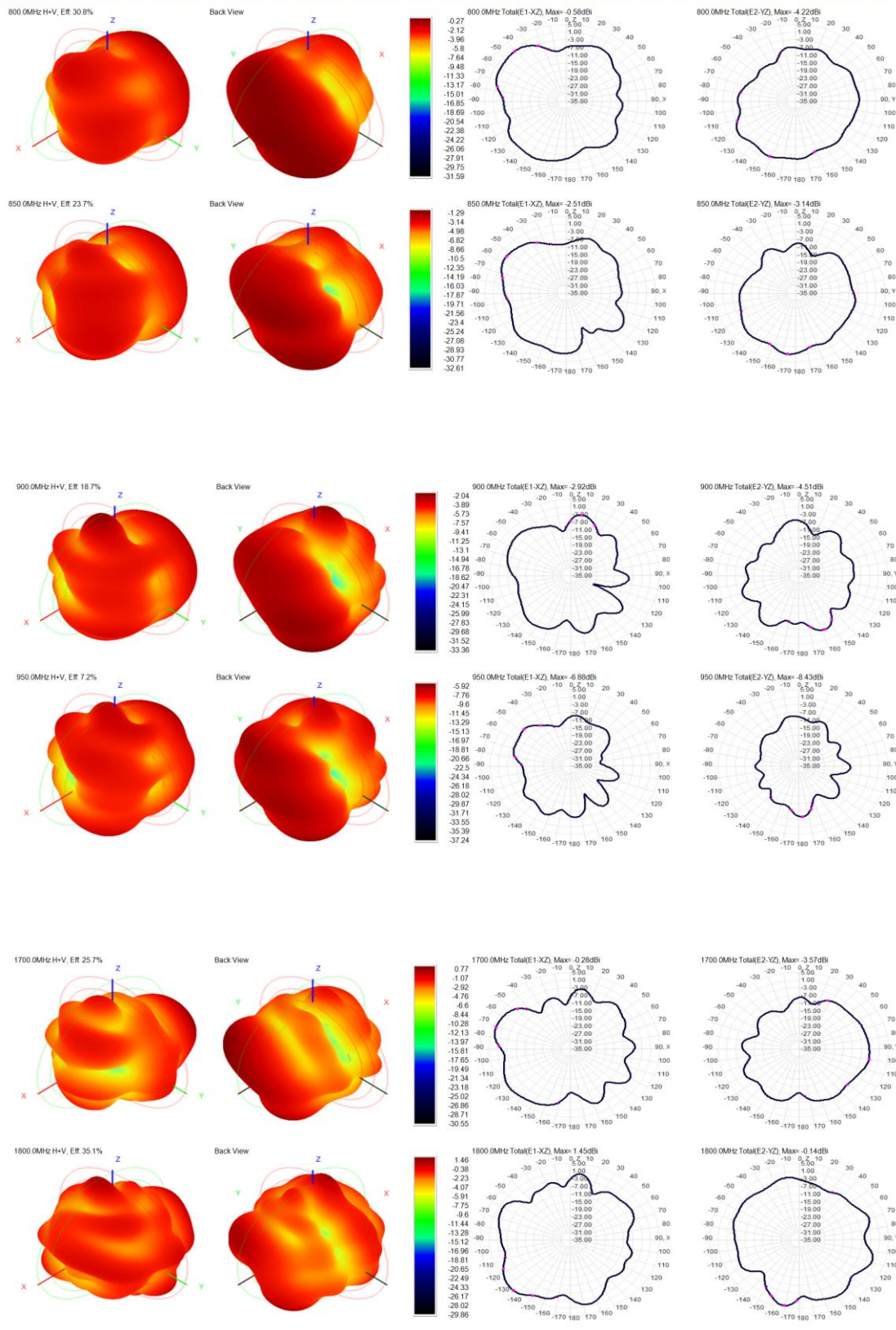


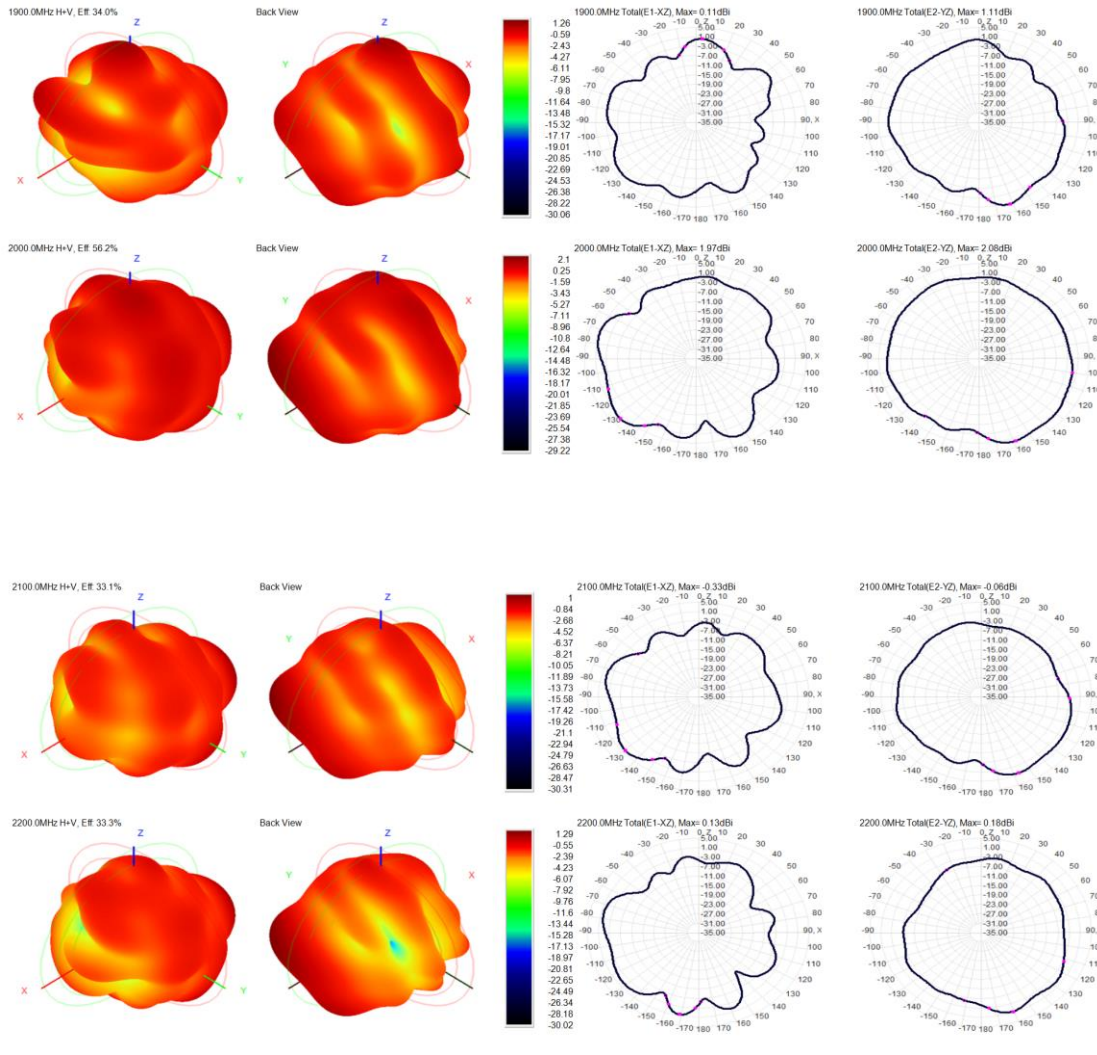
1800

Antenna Passive Test Report:

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12
Frequency (MHz)	700	750	800	850	900	950	1700	1800	1900	2000	2100	2200
Efficiency (dBi)	-11.39	-7.55	-5.12	-6.25	-7.28	-11.46	-5.90	-4.54	-4.69	-2.50	-4.80	-4.78
Gain (dBi)	-5.68	-2.69	-0.27	-1.29	-2.04	-5.92	0.77	1.46	1.26	2.10	1.00	1.29







5、TRP&TIS

CC418W-CATM1 3D TEST REPORT

project		band	band	band	band	band	band	band	band	band	band	remark
CC418W 20230921		B1	B2	B3	B4	B5	B8	B12	B13	B20	B25	BG95-M3 模块
		1920	1150	1900	2350	2600	3750	5130	5230	6400	8365	
	TRP	14.99	18.99	13.37	16.07	8.08	12.30	15.30	16.29	10.08	13.30	
	TIS	-95.74	-105.74	-94.77	-108.70	-91.13	-91.68	-108.20	-93.63	-90.73	-91.20	
									B28	B66	B85	
		850	900	1800	1900				9600	39550		
	TRP	23.66	21.39	23.48	26.82				12.38	14.50	13.29	
	TIS	-97.83	-96.89	-105.05	-105.12				-90.20	-92.00	-91.63	