
Antenna Approval Sheet

For

3-WIFI-2450-05 Project

Customer	TripleCam	Project	3-WIFI-2450-05
Band	WiFi 2.4GHZ/5GHZ		
ZC PN	SG001-CA-93		
Version	R:A	Data	2024-8-30

RF		ME	
Checked By			
Confirmed By			
Cust Confirm			

Antenna Picture

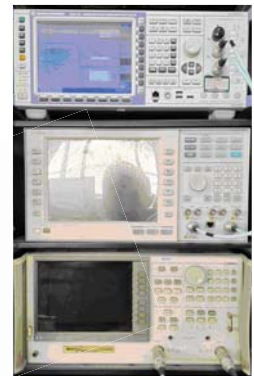
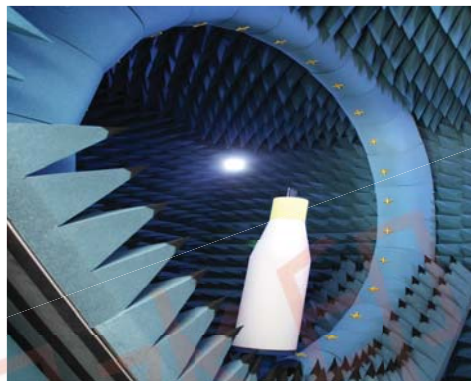


3. Electrical Specification:

Antenna types	Built-in WIFI Antenna
Frequency	2400-2500 MHz, 5150-5880MHz
Impedance	50 Ω
VSWR	< 2.0
Gain	2.4GHZ 1.73 dbi, 5GHZ 4.95dbi
Efficiency	>35 %
Antenna Material	FPCB+Coaxial Cable
Connector Type	0.81 MHF-3-Plug

4. Test Condition

4.1	TEST ITEM	TESTING INSTRUMENT	REMARKS
1.PASSIVE TEST	1. TRP 2. TIS	1. 3D microwave darkroom (Satimo SG24) 2. Comprehensive test instrument (CMW500) 3. Agilent 8960 E5515C	
2.ACTIVE TEST	1. Antenna Gain 2. S.W.R 3. Return Loss 4. Radiation Pattern	1. Network analyzer (R&S ZVL6) 2. Network analyzer (HP 8753D)	



4.2 Matching Circuit The matching circuit was Default

4.3 Antenna installation diagram:



5. RF Performance

5.1 Passive parameters

Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	0.58	0.66	1.1	1.02	1.17	1.59	0.72	0.08	0.72	1.19	1.73

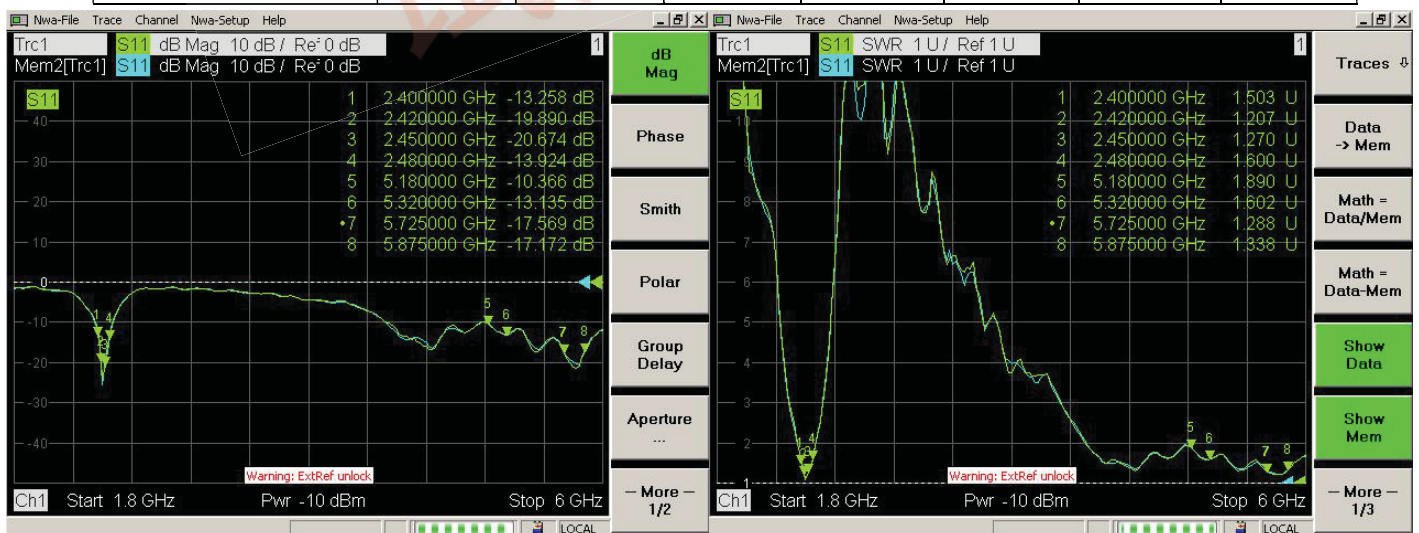
Freq. (MHz)	5150	5175	5200	5225	5250	5275	5300	5325	5350
Gain (dBi)	2.44	1.86	2.08	2.76	3.15	3.64	3.28	2.84	2.56

Freq. (MHz)	5475	5500	5525	5550	5575	5600	5625	5650	5675	5700
Gain (dBi)	2.18	2.66	3.51	3.23	3.43	3.97	3.28	3.19	2.68	2.29

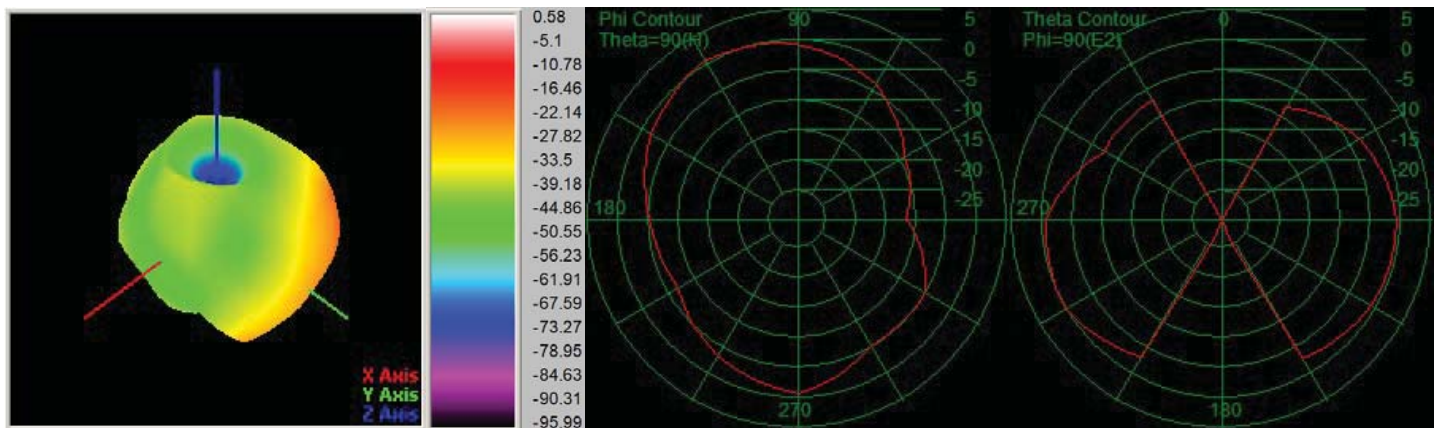
Freq. (MHz)	5720	5740	5760	5780	5800	5820	5840	5860	5880
Gain (dBi)	2.65	4.39	4.95	3.22	4.25	4.26	3.48	1.91	4.32

5.2 S Parameter

Frequency (MHz)	2400	2450	2480	5180	5320	5725	5875
Return Loss (dB)	-13.2	-20.6	-13.9	-10.36	-13.13	-17.5	-17.1
VSWR	1.53	1.27	1.6	1.89	1.6	1.28	1.33

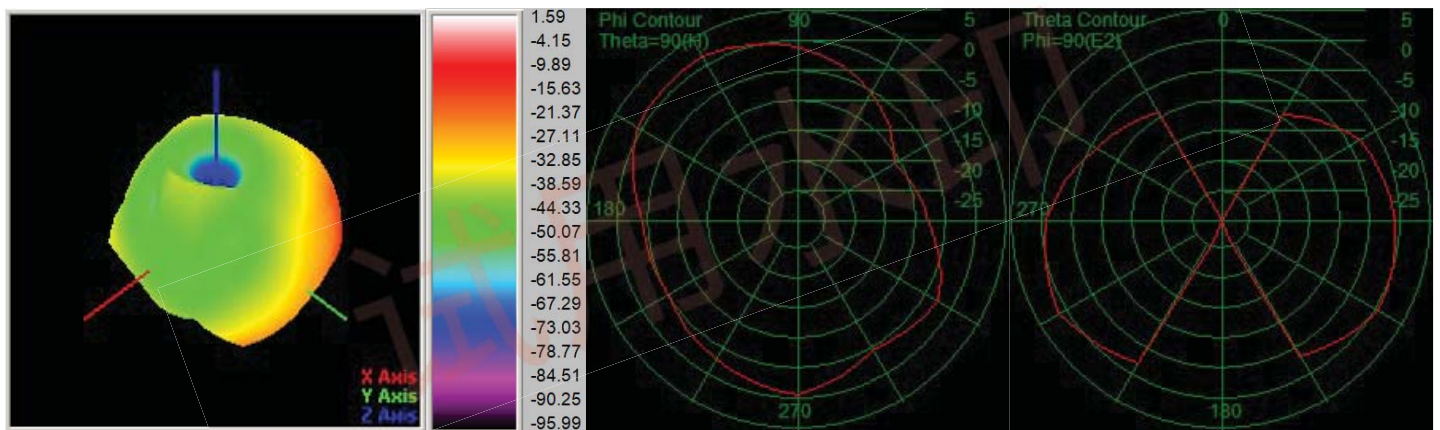


5.3 Antenna Radiation Pattern (Unit:dbi)



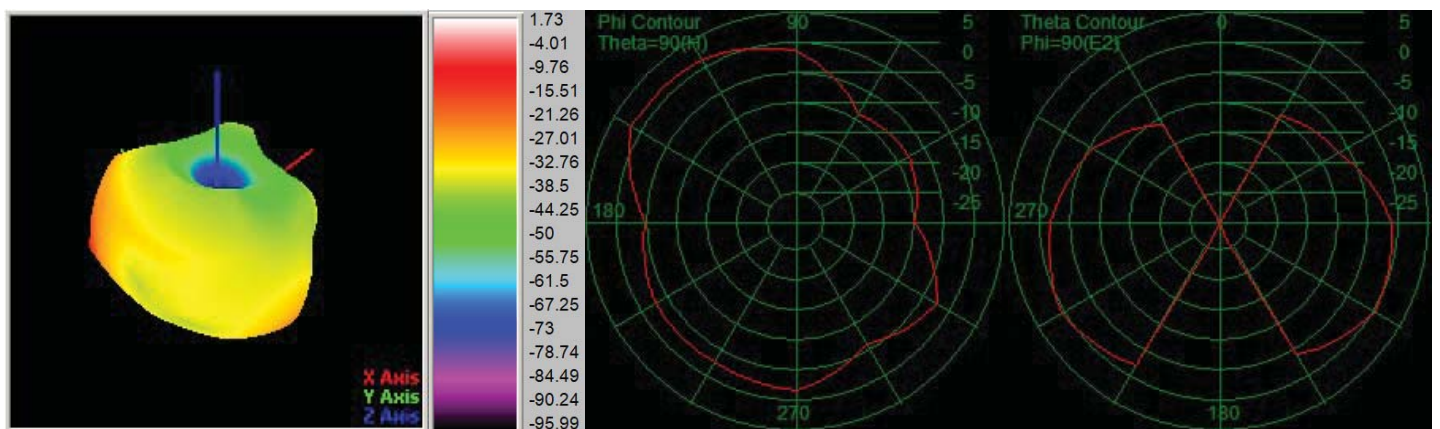
Passive -Freq2400.00MHZ

Gain:0.58(dBi)



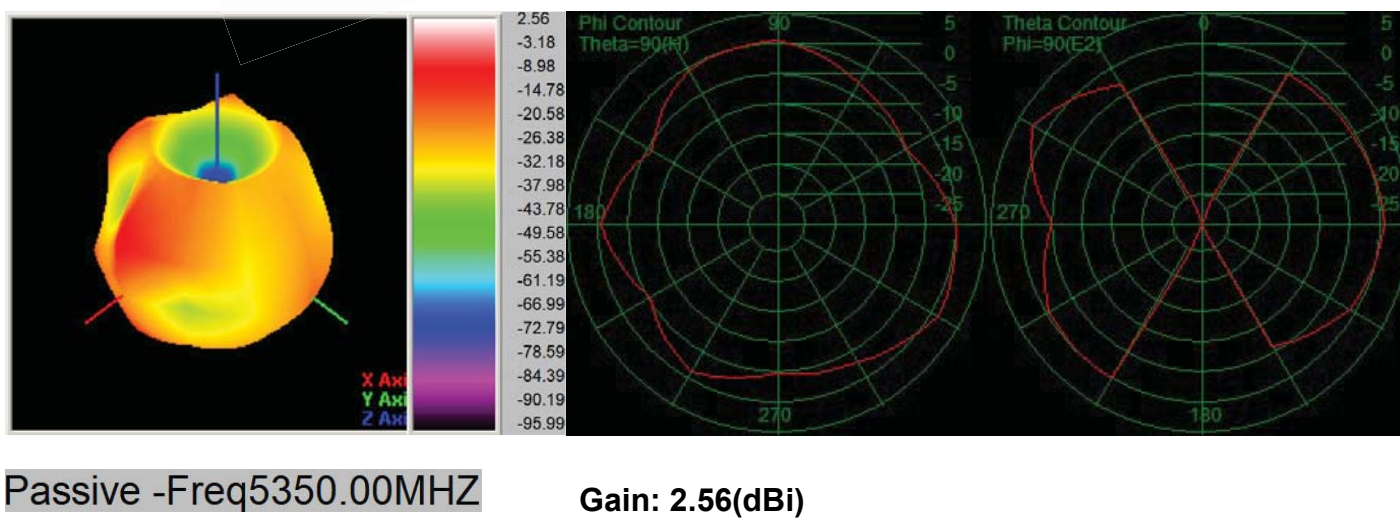
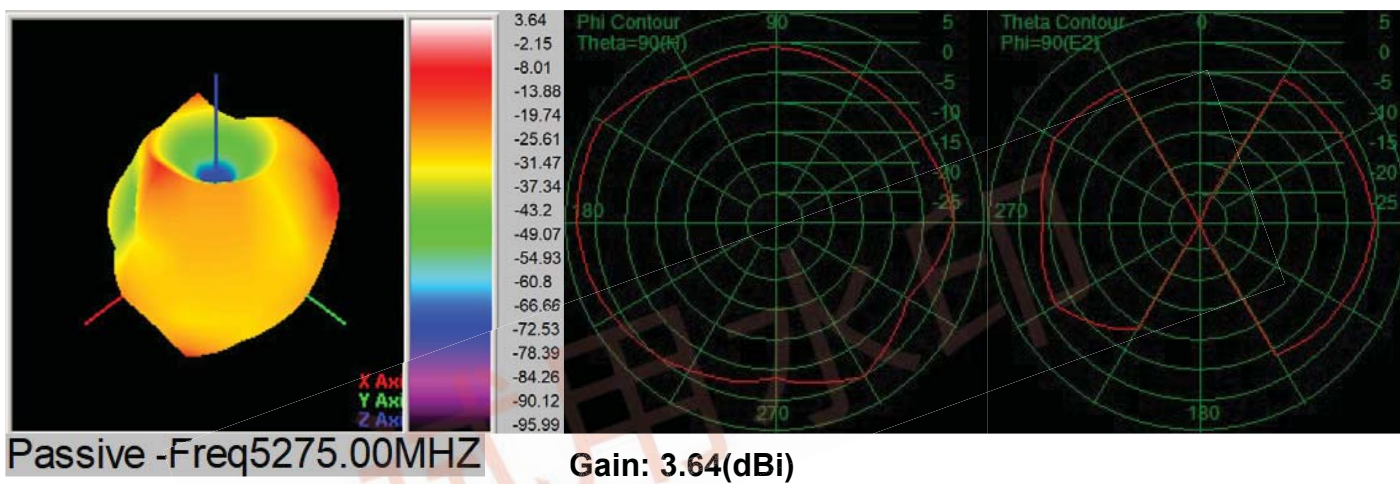
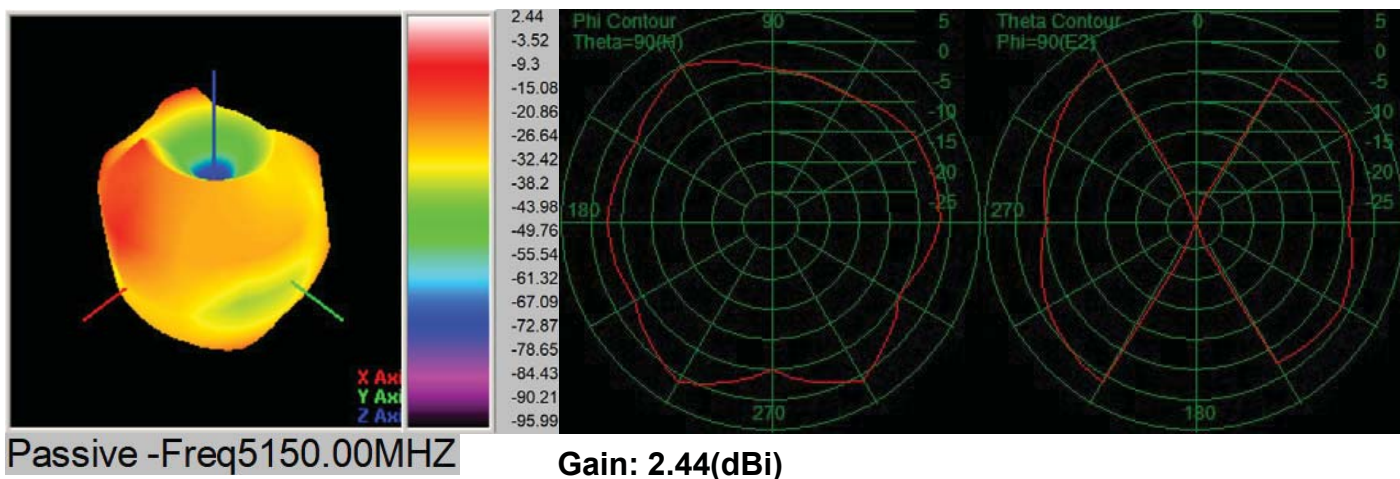
Passive -Freq2450.00MHZ

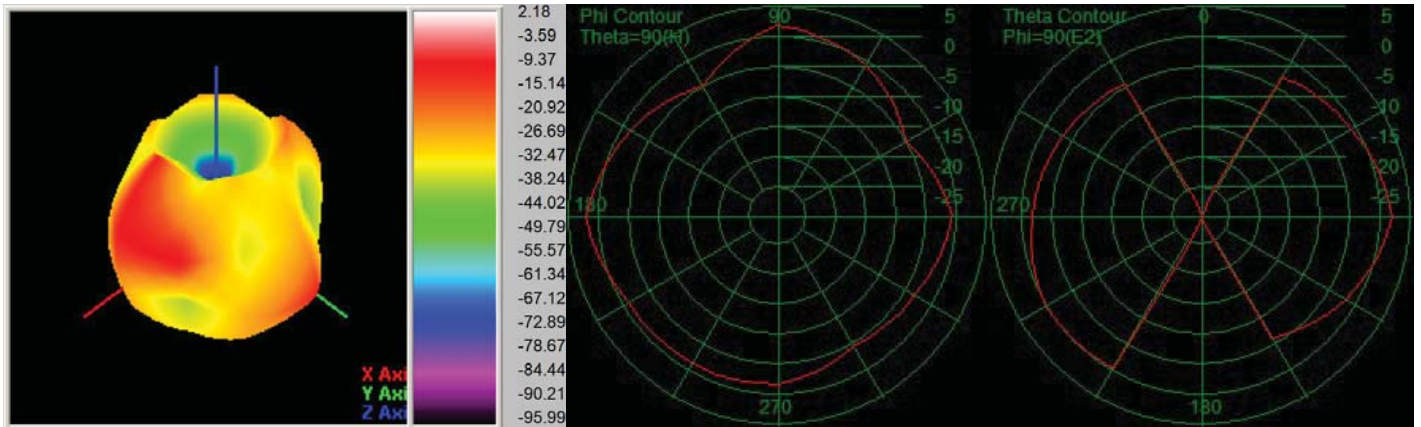
Gain: 1.59(dBi)



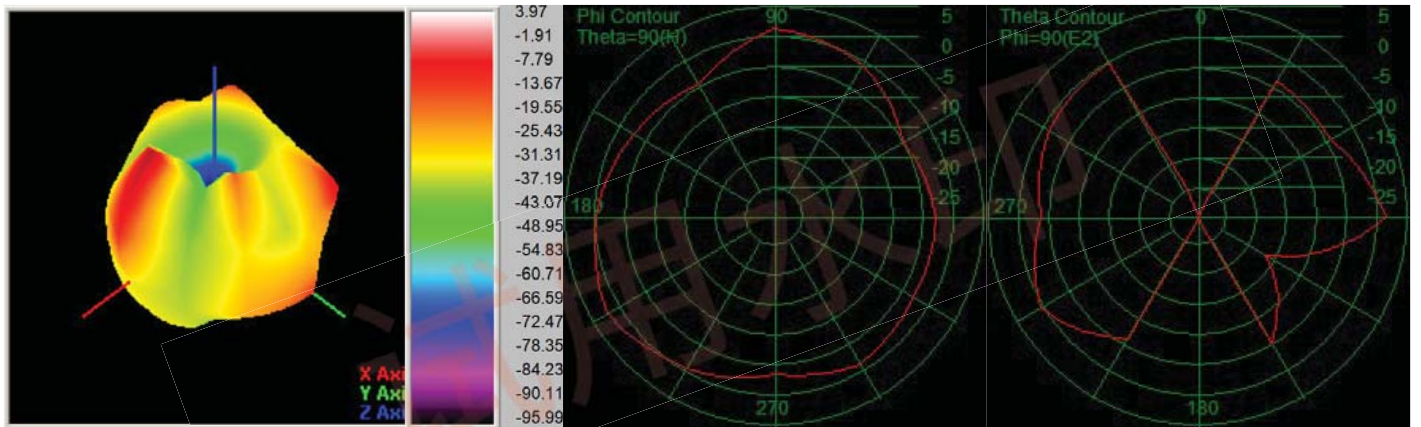
Passive -Freq2500.00MHZ

Gain: 1.73(dBi)

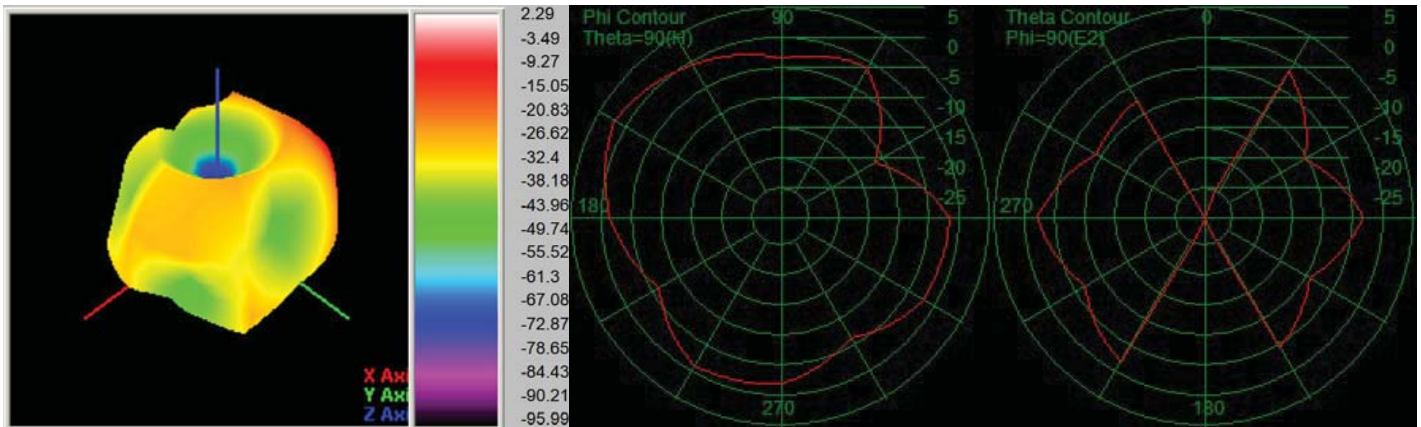




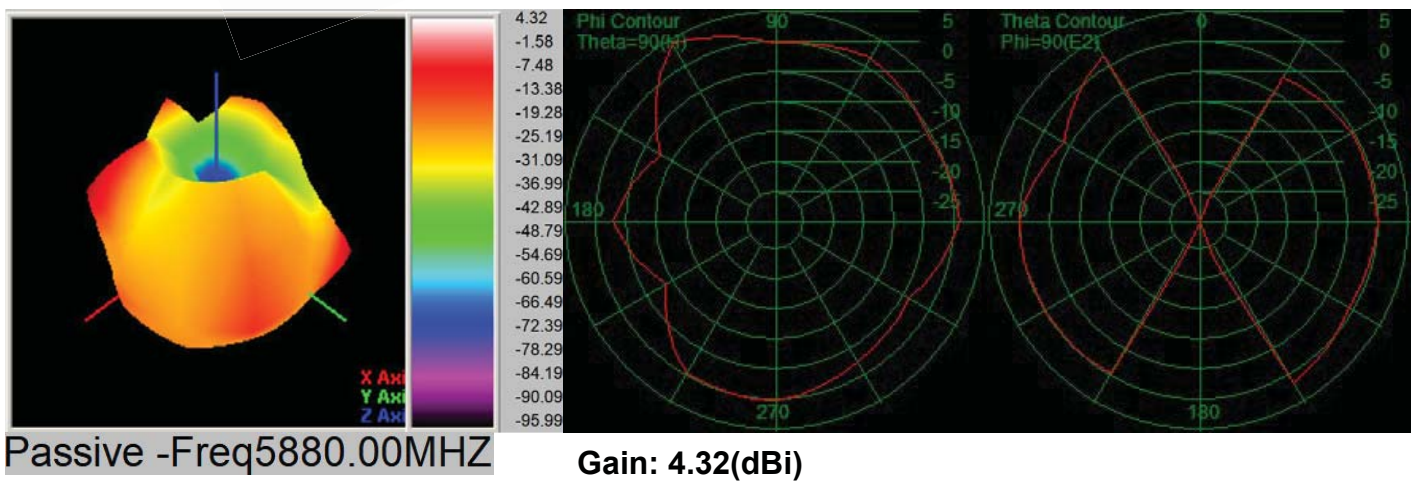
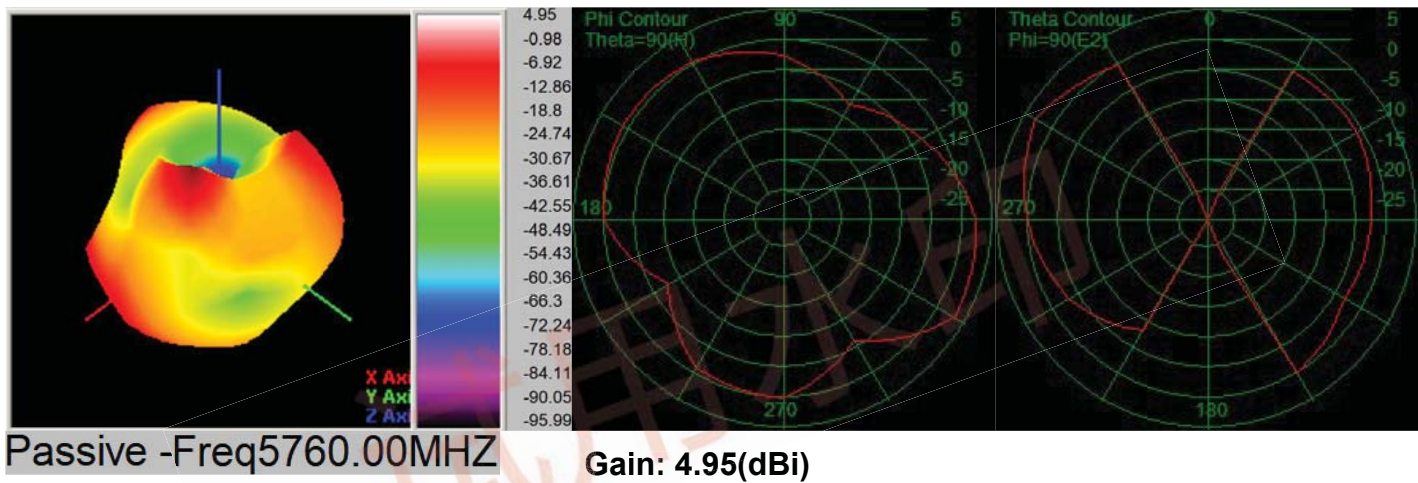
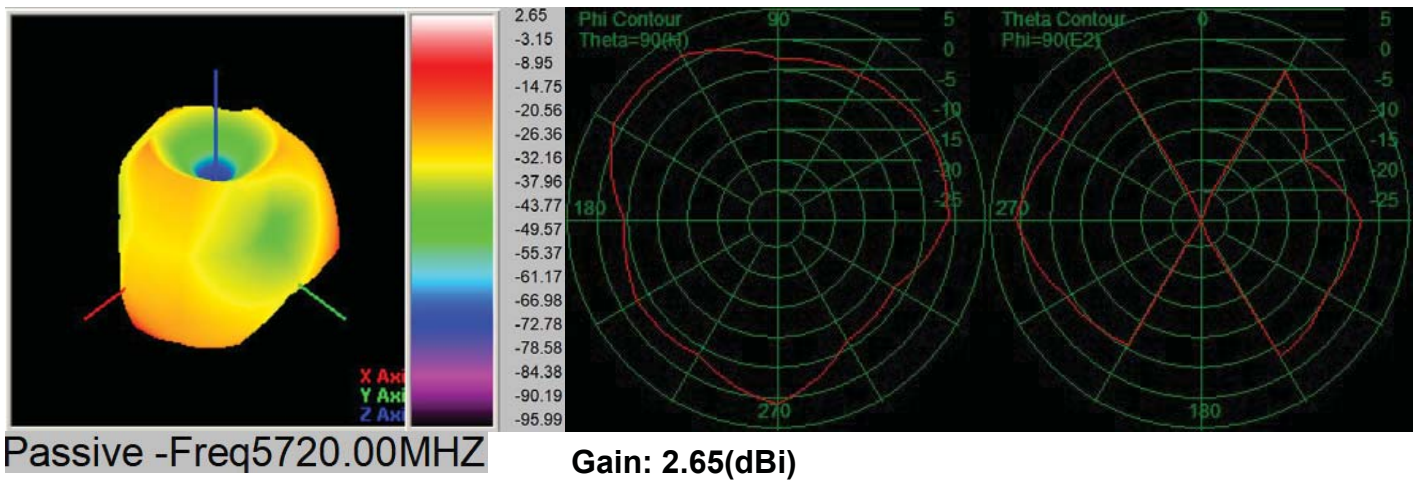
Passive -Freq5475.00MHZ Gain: 2.18(dBi)



Passive -Freq5600.00MHZ Gain: 3.97(dBi)



Passive -Freq5700.00MHZ Gain: 2.29(dBi)



试用水印