



求是 价值 双赢

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专注天线方案、设计与生产

客 户：新智联

项 目：BBT076-S7C-80I

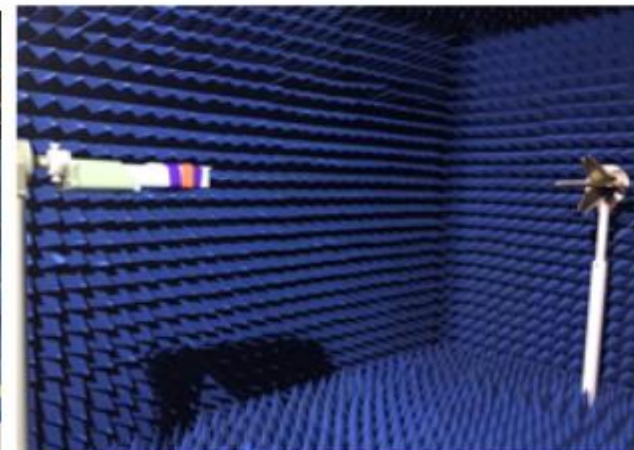
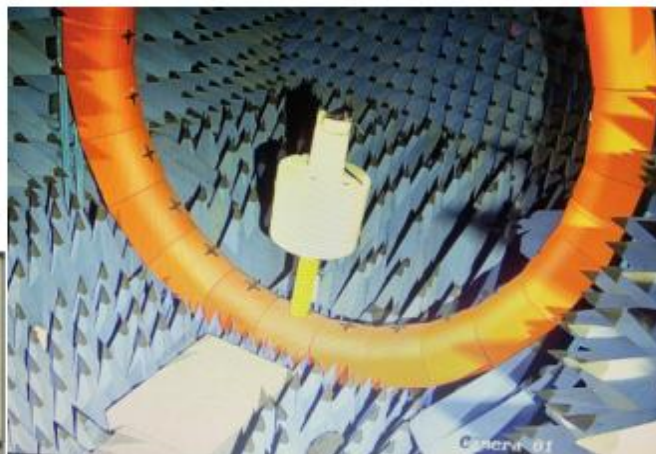
日 期：2024.4.2

射 频：QIU ZHI YUAN



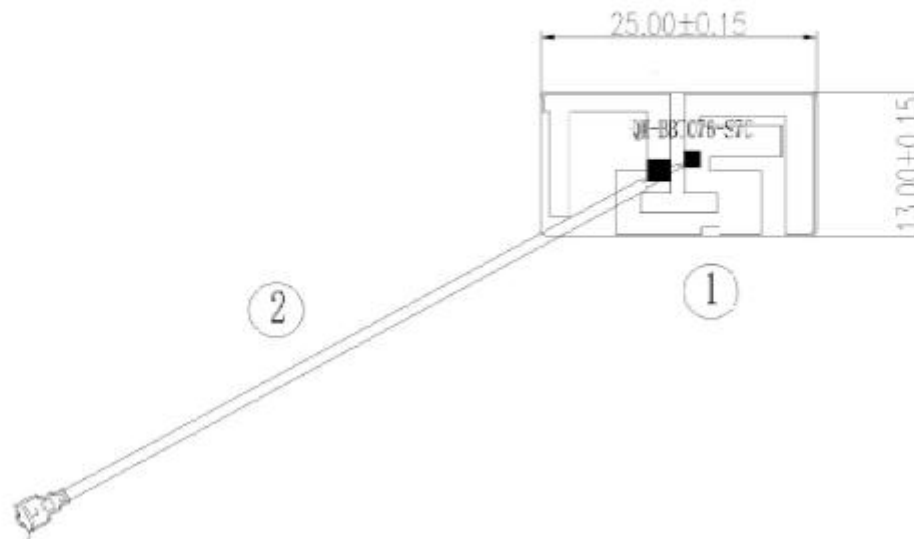
测试环境

	测试项目	设备
1. S参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	网络分析仪: Agilent E5071B ×2 HP 8753D PROTEK A338
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS) 3. 频率误差 4. 屏灭、屏亮	1. 暗室: 飞图 7x4x3 m (24探头 3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 综合测试仪: Agilent 8960 ×2 CMW500 ×3/CMU200
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. 暗室: 飞图 7x4x3 m (24探头 3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 网络分析仪: Agilent E5071B





Antenna size (mm)





有源功率测试数据

天线状态	FPC样品		
	WIFI 2400~2500MHz 802.11b 11Mbps		
Channel	1	6	11
TRP	15.74	15.39	15.69
TIS	-78.47	-81.51	-81.52

天线状态	FPC样品		
	WIFI 5000~5800MHz 802.11a 54Mbps		
Channel	36	161	165
TRP	11.5	11.19	11.26
TIS	-68.47	-68.23	-68.05



**FETUKEJI**

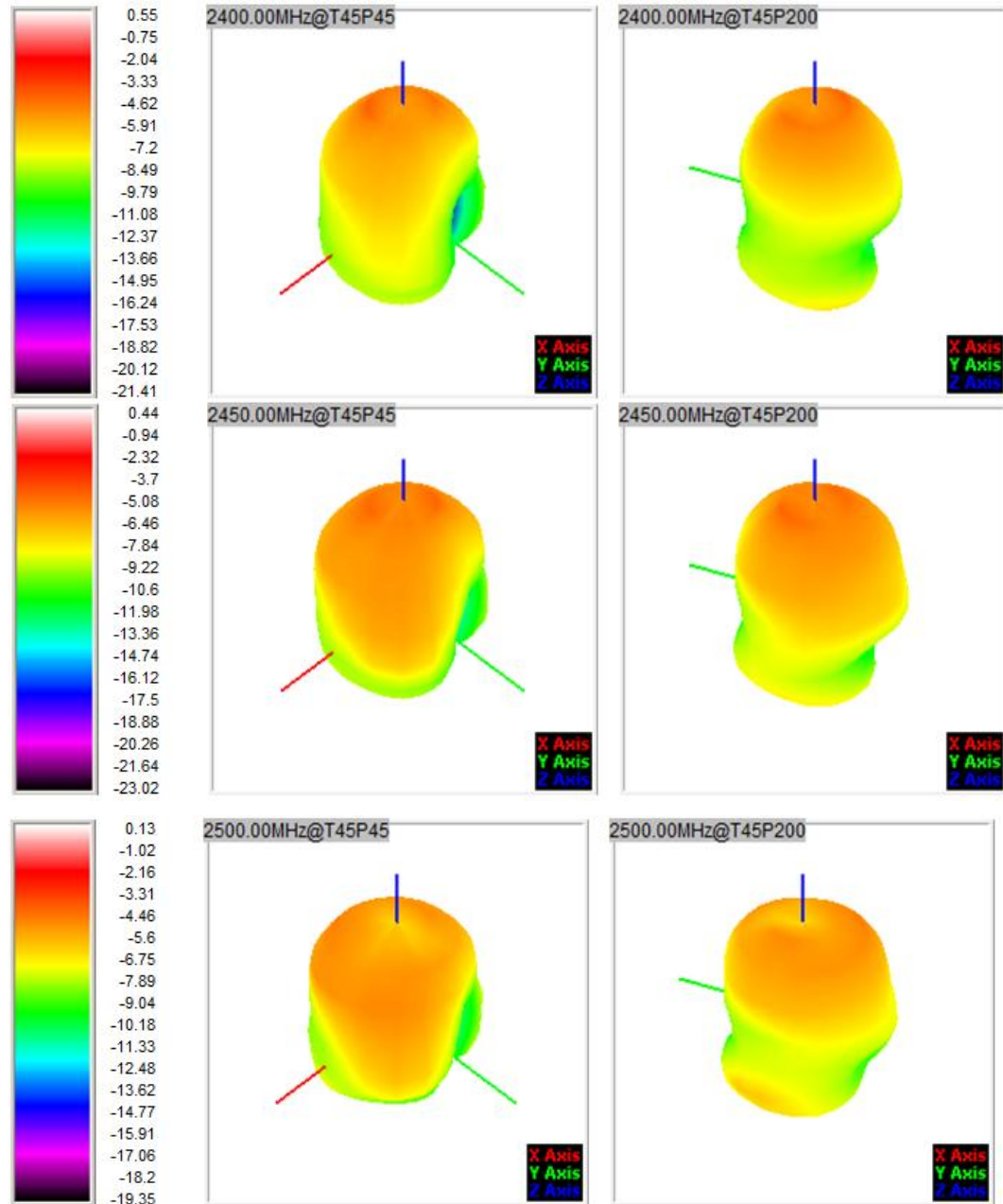
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	43.67	-3.6	1.33	-0.82	17.608	26.061	1.33	-21.22	48.51	48.38
2410	48.5	-3.14	1.89	-0.26	19.797	28.704	1.89	-20.13	48.83	48.65
2420	50.88	-2.93	2.19	0.04	20.82	30.065	2.19	-18.81	49.05	49
2430	50.78	-2.94	2.16	0.01	20.611	30.164	2.16	-17.91	49.05	48.89
2440	49.58	-3.05	2.01	-0.14	19.805	29.78	2.01	-17.2	49.08	48.97
2450	50.46	-2.97	2.01	-0.14	19.63	30.827	2.01	-17.07	49.01	48.85
2460	47.3	-3.25	1.65	-0.5	17.888	29.413	1.65	-17	48.86	48.7
2470	47.61	-3.22	1.68	-0.47	17.549	30.06	1.68	-17.06	48.86	48.78
2480	49.95	-3.01	1.92	-0.23	18.183	31.77	1.92	-16.93	49.29	49.19
2490	58.24	-2.35	2.71	0.56	21.081	37.157	2.71	-15.74	49.92	49.75
2500	57.18	-2.43	2.73	0.58	20.791	36.394	2.73	-15.34	49.95	49.77

**FEITUKEJI**

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5010	53.89	-2.69	2.47	0.32	19.851	34.034	2.47	-13.96	59.68	58.34
5100	48.55	-3.14	1.92	-0.23	18.729	29.817	1.92	-13.41	59.72	58.13
5200	48.43	-3.15	2.21	0.06	19.261	29.165	2.21	-13.74	58.96	58.14
5300	46.22	-3.35	2	-0.15	18.451	27.774	2	-13.98	59.57	58.89
5400	56.04	-2.51	2.55	0.4	22.881	33.16	2.55	-12.75	59.79	59.34
5500	58.11	-2.36	2.94	0.79	24.28	33.847	2.94	-16.14	60.9	60.27
5600	54.72	-2.62	3.27	1.12	23.657	31.068	3.27	-15.93	62.08	61.71
5700	47.39	-3.24	2.62	0.47	20.695	26.692	2.62	-13.81	62.34	62.11
5800	51.36	-2.89	2.97	0.82	21.764	29.6	2.97	-21	61.87	61.75

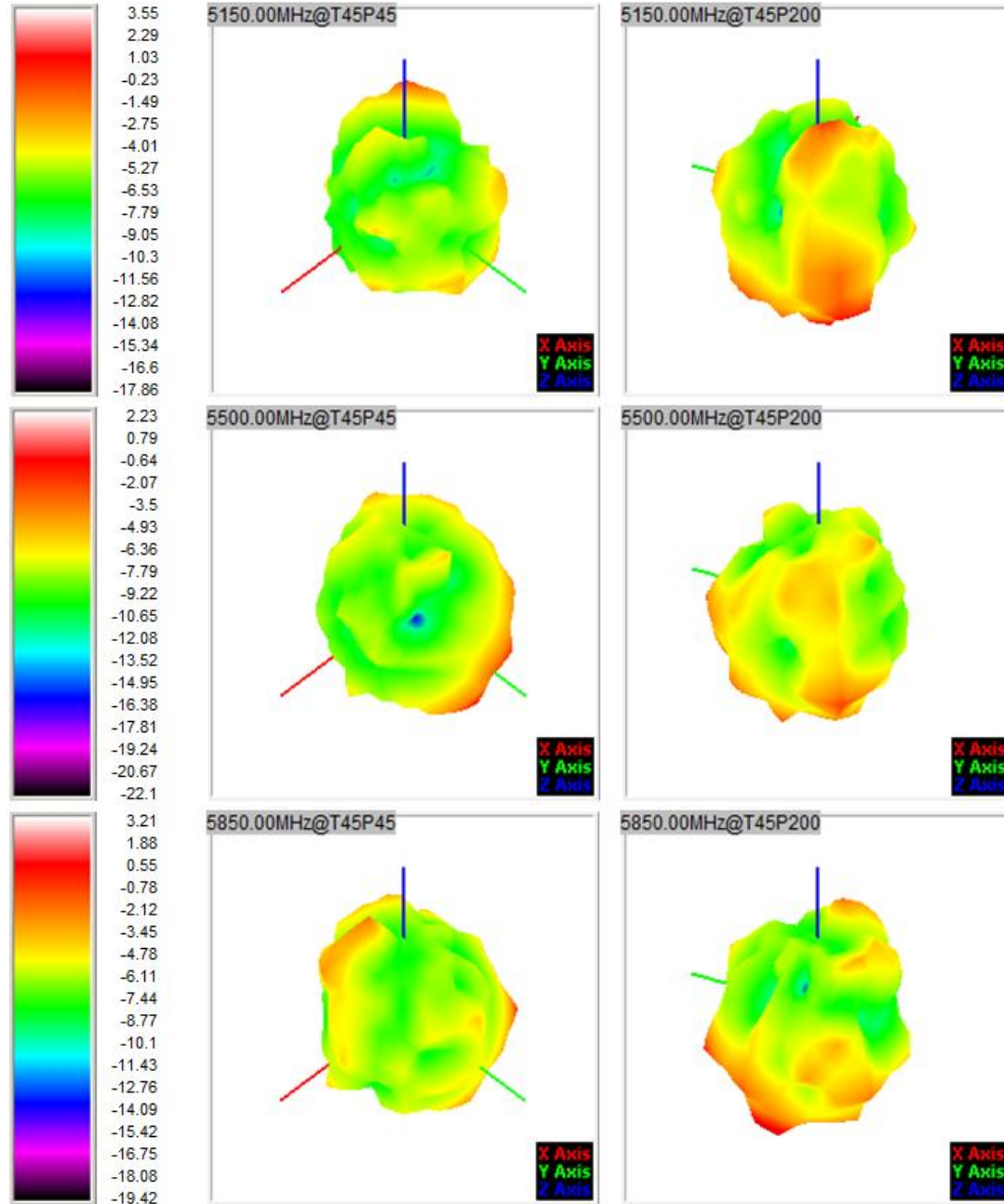


2.4G方向图





5.8G方向图





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