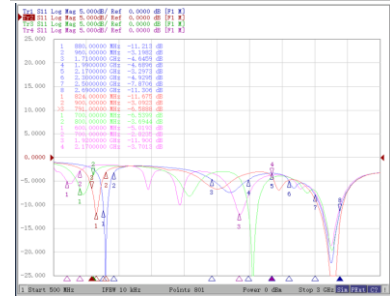


		Antenna Passive Test Report			
Project Name	T8F1B	Engineer	zhengxu	Checker	
HW Version	V00	Prototype(S/N)	L302E4B100297	Software Version	1.00.0020241101
Temperature/Humidity	25°C/50%	Test Equipment	OTA chamber	Test Date	2024/11/14
Conclusion		Remarks			
Standard	Fre(Mhz)	Effi(%) (Min~Max)	Probiem Description and Next Step Plan		
Main Antenna	600~700	19%-22%			
	700~800	20%-36%			
	800~960	19%-40%			
	1700~2170	23%-43%			
	2300~2400	26%			
	2500~2700	30%-36%			
Div Antenna	600~700				
	700~800				
	800~960				
	1700~2170	10%-24%			
	2300~2400	20%			
	2500~2700	24%-32%			
WiFi	2.4G	38%-43%			
	5G	40%-47%			
GPS	L5	30%			

Main antenna

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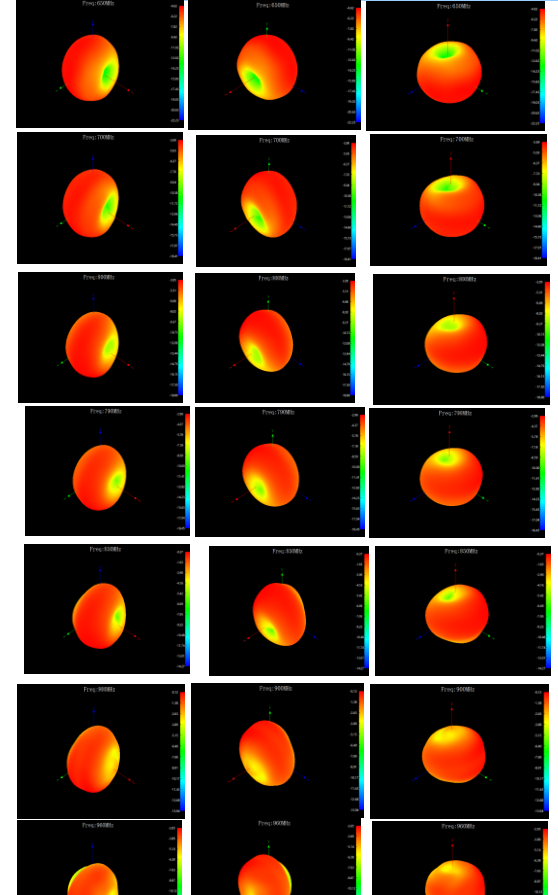


	Band
RF1	GSM900/1800/1900/WCDMA B2/4/8/ LTE B2/3/4/66/7/8/B25/38/39/4
RF2	GSM850/ WCDMA B5/B6/B19/ LTE B5/18/19/20/26/30/40
RF3	LTE B12/13/14/17/28
RF4	WCDMA B1/LTE B71/1/34

Passive (Gain, Efficiency, 3D field pattern)

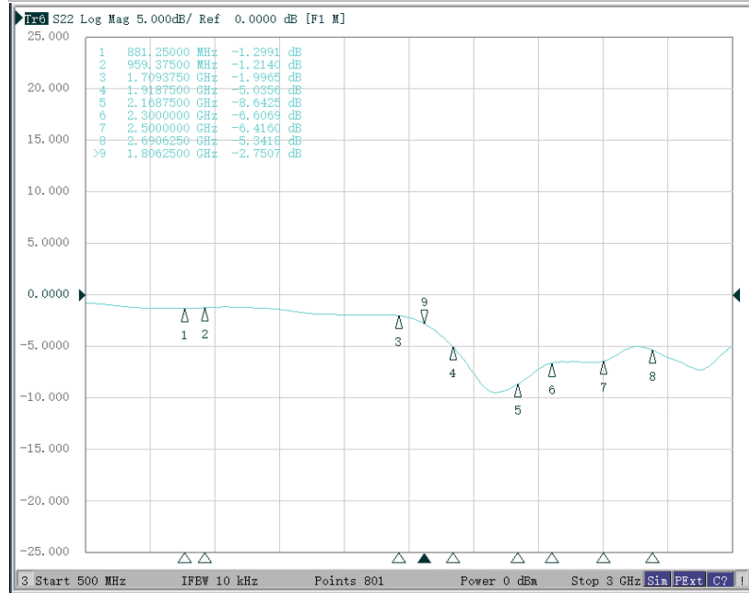
frequency (MHz)	RF1			RF2			RF3			RF4		
	Gain(dBi)	Efficiency(dB)	Efficiency(%)	Gain(dBi)	Efficiency(dB)	Efficiency(%)	Gain(dBi)	Efficiency(dB)	Efficiency(%)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
600												
610												
620										-4.77	-6.93	20.28
630										-4.55	-6.67	21.53
640										-4.10	-6.56	22.08
650										-4.08	-6.14	24.32
660										-4.40	-6.18	24.10
670										-4.40	-6.45	22.65
680										-4.62	-6.73	21.23
690										-4.76	-6.82	20.80
700							-3.69	-6.33	23.28	-4.72	-6.96	20.14
710							-3.70	-6.08	24.66			
720							-3.46	-6.03	24.95			
730							-3.21	-6.06	24.77			
740							-3.53	-6.09	24.60			
750							-3.56	-6.09	24.60			
760							-3.87	-6.36	23.12			
770							-3.53	-6.41	22.86			
780							-3.53	-6.55	22.13			
790				-2.96	-6.29	23.50	-3.62	-6.85	20.65			
800				-2.33	-5.47	28.38	-3.95	-7.12	19.41			
810				-1.39	-4.90	32.36						
820				-0.96	-4.55	35.08						
830				-0.37	-4.37	36.56						
840				-0.96	-4.43	36.06						
850				-0.97	-4.72	33.73						
860				-1.03	-5.00	31.62						
870				-1.09	-5.41	28.77						
880	0.08	-4.30	37.15	-1.52	-5.86	25.94						
890	0.05	-3.98	39.99	-2.53	-6.62	21.78						
900	-0.12	-4.02	39.63									
910	-0.87	-4.50	35.48									
920	-1.16	-4.98	31.77									
930	-1.37	-5.53	27.99									
940	-1.29	-6.00	25.12									
950	-1.90	-6.64	21.68									
960	-2.65	-7.23	18.92									
1700												
1710	0.37	-6.30	23.44									
1720	0.59	-5.89	25.76									
1730	1.11	-5.47	28.38									
1740	1.57	-5.08	31.05									
1750	1.85	-4.77	33.34									
1760	1.83	-4.60	34.67									
1770	1.77	-4.53	35.24									
1780	1.89	-4.28	37.33									
1790	1.93	-4.03	39.54									
1800	2.41	-3.89	40.83									
1810	2.67	-3.75	42.17									
1820	2.83	-3.72	42.46									

3D field pattern (xyz3 directions, marking the direction of the device under



Diversity Antenna

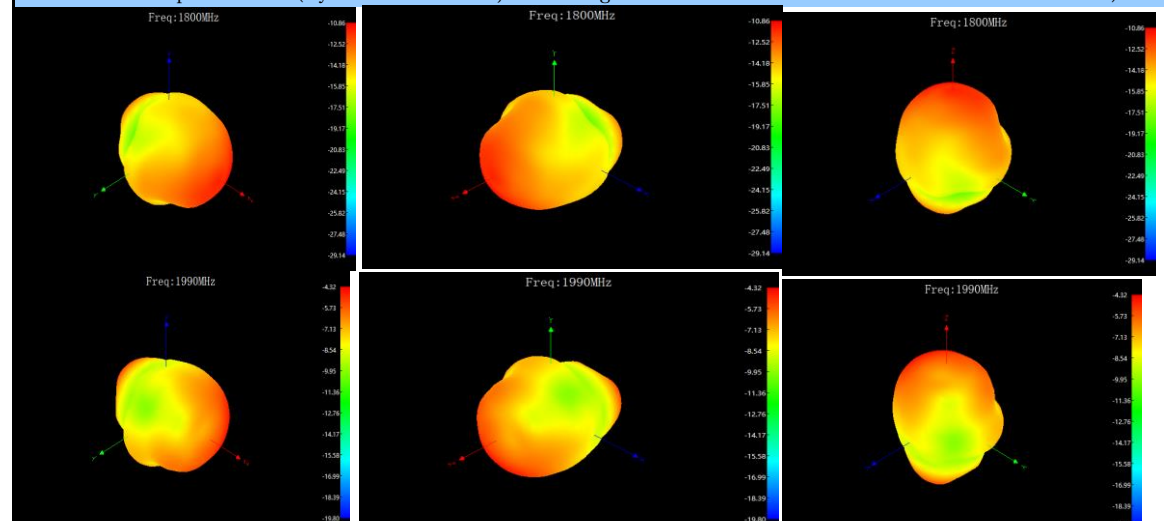
S11



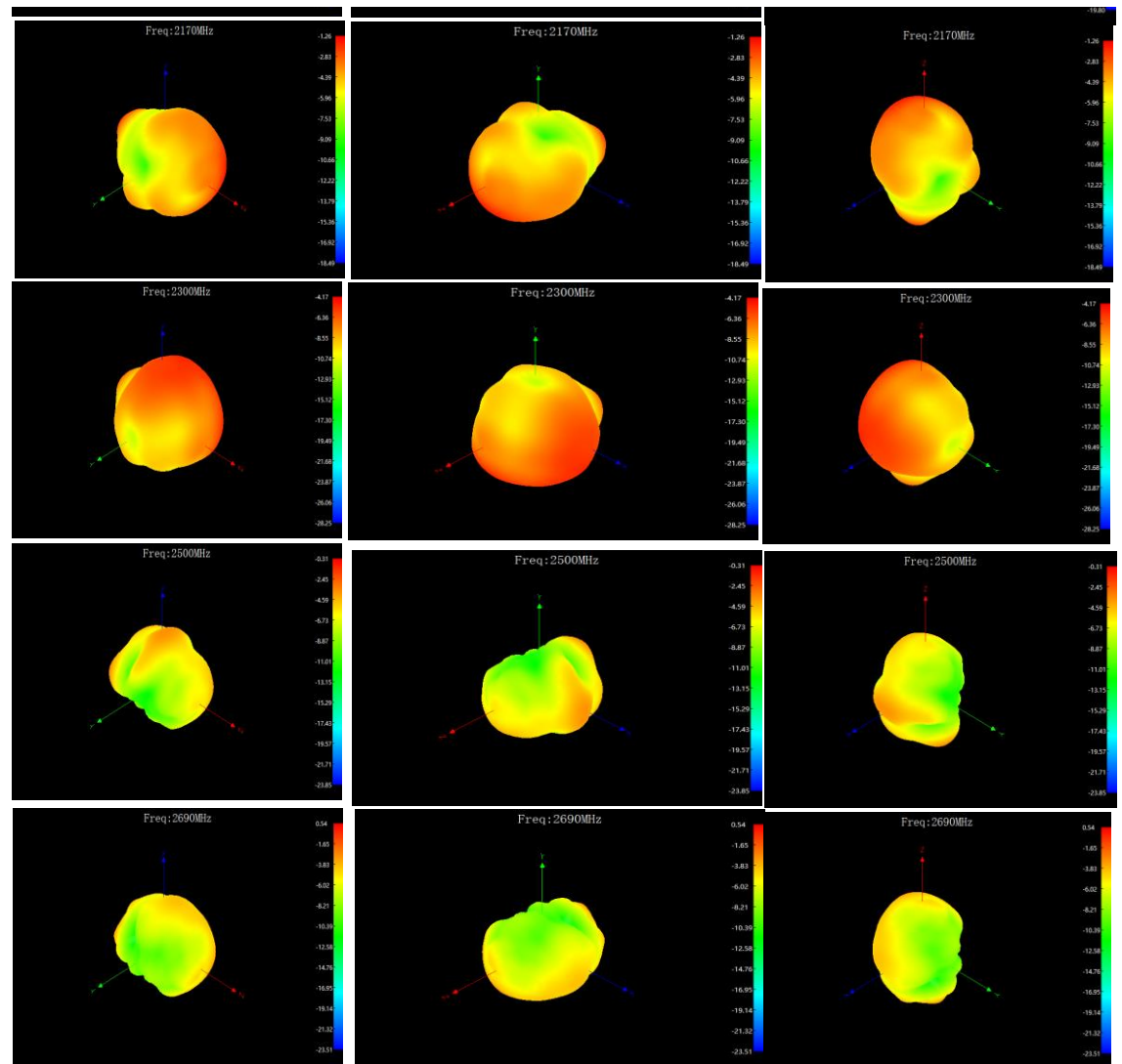
Passive (Gain, Efficiency, 3D field pattern)

frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
1710	-13.85	-17.73	1.69
1720	-13.58	-17.33	1.85
1730	-12.91	-16.95	2.02
1740	-12.26	-16.54	2.22
1750	-11.73	-16.10	2.45
1760	-11.61	-15.88	2.58
1770	-11.84	-15.86	2.59
1780	-11.84	-15.62	2.74
1790	-11.55	-15.10	3.09
1800	-10.86	-14.60	3.47
1810	-10.10	-14.08	3.91
1820	-9.46	-13.69	4.28
1830	-9.19	-13.32	4.66
1840	-9.09	-13.13	4.86
1850	-8.86	-12.95	5.07

3D field pattern (xyz3 directions, marking the direction of the device under test)

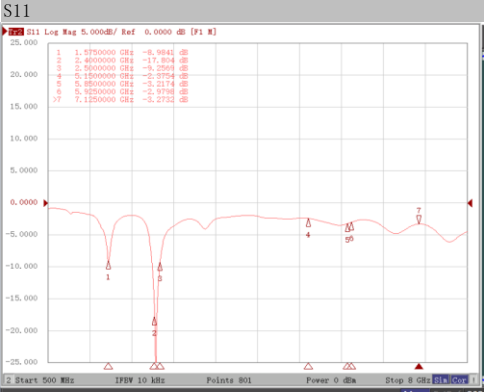


1860	-8.66	-12.77	5.28
1870	-8.31	-12.57	5.53
1880	-8.04	-12.14	6.11
1890	-7.70	-12.02	6.28
1900	-7.27	-11.66	6.82
1910	-6.58	-11.29	7.43
1920	-6.21	-10.90	8.13
1930	-5.79	-10.46	8.99
1940	-5.23	-10.18	9.59
1950	-4.91	-9.76	10.57
1960	-4.54	-9.42	11.43
1970	-4.36	-9.07	12.39
1980	-4.28	-8.85	13.03
1990	-4.32	-8.75	13.34
2000	-4.35	-8.55	13.96
2010	-4.40	-8.36	14.59
2020	-4.05	-8.13	15.38
2030	-3.88	-8.03	15.74
2040	-3.50	-7.88	16.29
2050	-3.42	-7.84	16.44
2060	-3.44	-7.79	16.63
2070	-3.78	-7.85	16.41
2080	-3.68	-7.74	16.83
2090	-3.54	-7.56	17.54
2100	-3.17	-7.27	18.75
2110	-2.90	-7.20	19.05
2120	-2.34	-6.98	20.04
2130	-1.93	-6.72	21.28
2140	-1.48	-6.47	22.54
2150	-1.18	-6.26	23.66
2160	-1.13	-6.06	24.77
2170	-1.26	-5.95	25.41
2180	-1.35	-5.97	25.29
2190	-1.76	-6.09	24.60
2200	-1.82	-6.22	23.88
2210	-1.91	-6.28	23.55
2220	-1.75	-6.33	23.28



2230	-2.43	-6.07	24.72
2240	-2.60	-6.17	24.15
2250	-2.75	-6.29	23.50
2260	-2.92	-6.52	22.28
2270	-2.95	-6.77	21.04
2280	-3.64	-6.99	20.00
2290	-3.88	-8.33	14.69
2300	-4.17	-8.58	13.87
2310	-4.42	-8.78	13.24
2320	-4.45	-8.86	13.00
2330	-4.67	-9.07	12.39
2340	-5.07	-9.39	11.51
2350	-5.33	-9.60	10.96
2360	-5.28	-9.54	11.12
2370	-5.27	-9.42	11.43
2380	-5.15	-9.08	12.36
2390	-5.07	-8.83	13.09
2400	-4.54	-8.47	14.22
2410	-4.07	-8.34	14.66
2420	-3.46	-8.21	15.10
2430	-3.04	-8.10	15.49
2440	-2.61	-8.11	15.45
2450	-2.06	-7.90	16.22
2460	-1.66	-7.83	16.48
2470	-1.05	-7.52	17.70
2480	-0.76	-7.49	17.82
2490	-0.47	-7.38	18.28
2500	-0.31	-7.34	18.45
2510	-0.32	-7.42	18.11
2520	-0.45	-7.58	17.46
2530	-0.30	-7.47	17.91
2540	-0.31	-7.45	17.99
2550	-0.10	-7.24	18.88
2560	0.04	-7.16	19.23
2570	-0.08	-7.26	18.79
2580	-0.05	-7.22	18.97
2590	-0.21	-7.32	18.54

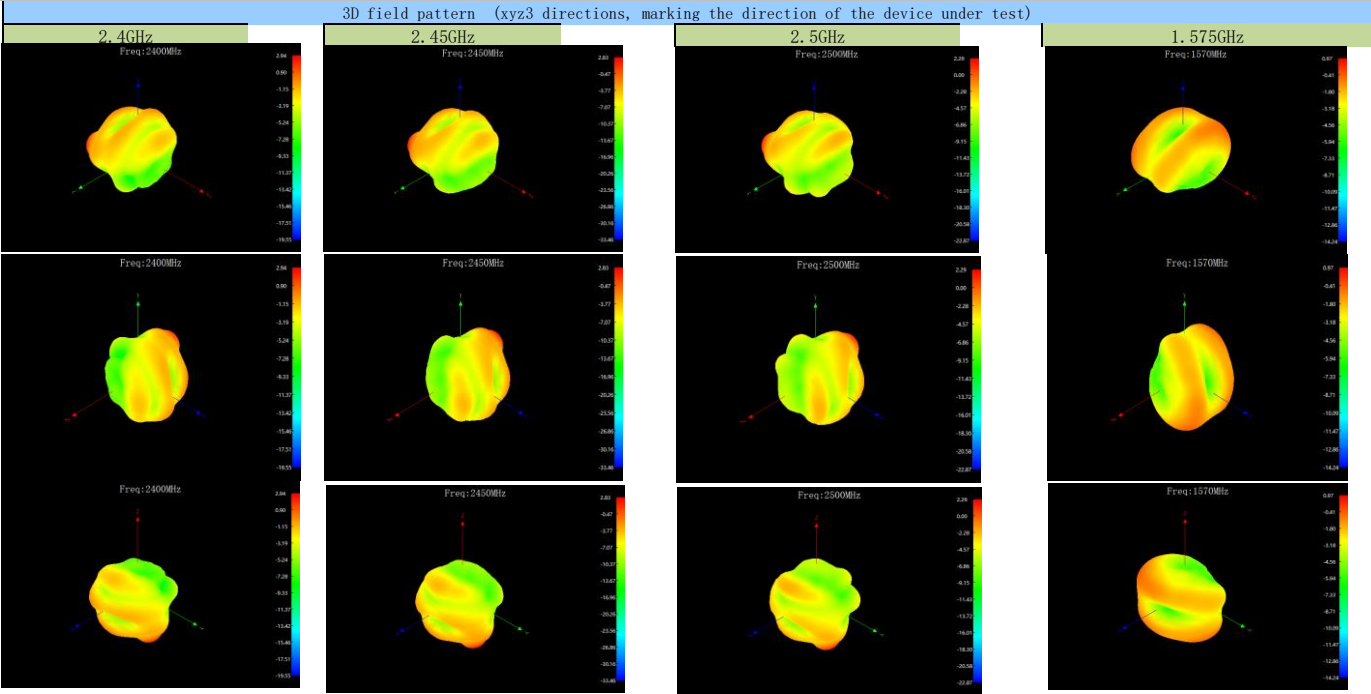
2600	-0.29	-7.33	18.49
2610	-0.37	-7.27	18.75
2620	-0.22	-7.08	19.59
2630	-0.11	-6.93	20.28
2640	-0.10	-6.96	20.14
2650	-0.19	-7.11	19.45
2660	-0.14	-7.14	19.32
2670	-0.22	-7.25	18.84
2680	0.50	-6.18	24.10
2690	0.54	-6.24	23.77



Passive (Gain, Efficiency, 3D field pattern)

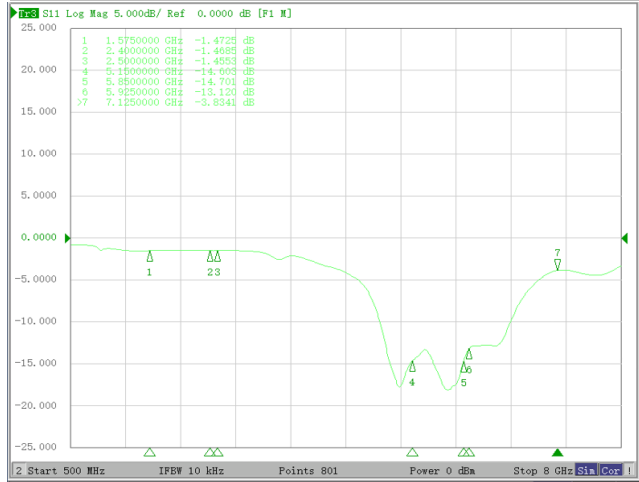
frequency (MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
1550	-0.91	-6.36	23.34
1555	-0.72	-5.97	25.43
1560	-0.20	-5.48	28.35
1565	0.17	-5.24	29.91
1570	0.77	-5.13	30.65
1575	0.94	-5.17	30.38
1580	0.97	-5.28	29.64
1585	0.74	-5.44	28.61
1590	0.54	-5.75	26.70
1595	0.29	-6.09	24.77
1600	-0.11	-6.55	22.38

frequency (MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	1.61	-3.93	39.76
2410	1.94	-3.65	42.27
2420	1.92	-3.61	42.64
2430	2.40	-3.56	43.11
2440	1.82	-3.56	43.11
2450	1.72	-3.72	41.63
2460	1.83	-3.72	41.63
2470	1.73	-3.90	40.02
2480	1.73	-3.82	40.73
2490	1.56	-3.97	39.41
2500	1.49	-4.07	38.56



WIFI5G

S11



Passive (Gain, Efficiency, 3D field pattern)

frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
5150	0.20	-3.80	40.90
5200	0.92	-3.50	43.69
5250	-0.46	-3.61	42.64
5300	-0.34	-3.54	43.30
5350	-0.32	-3.36	45.05
5400	0.04	-3.37	44.95
5450	0.55	-3.25	46.16
5500	0.53	-3.13	47.39
5550	1.15	-3.30	45.65
5600	1.14	-3.27	45.95
5650	1.81	-3.12	47.50
5700	1.33	-3.11	47.60
5750	0.86	-3.18	46.87
5800	1.85	-3.13	47.39
5850	0.73	-3.21	46.57

3D field pattern (xyz directions, marking the direction of the device under test)

