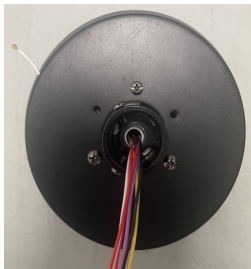
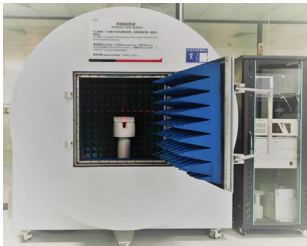
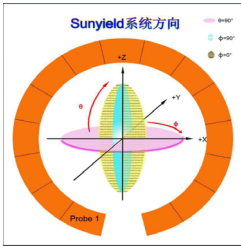
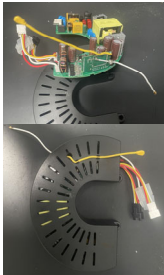
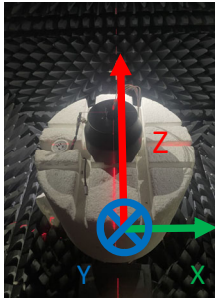
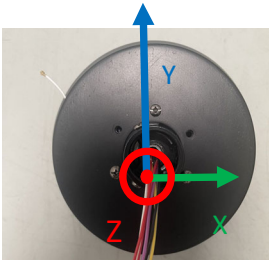
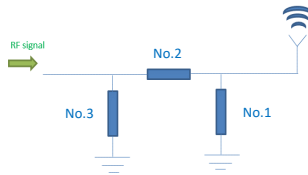
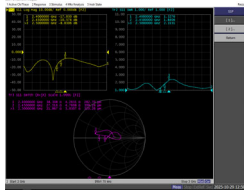
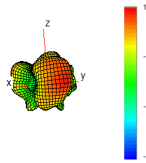
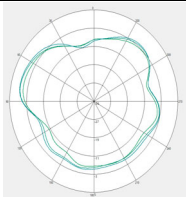
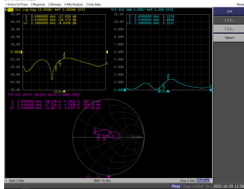
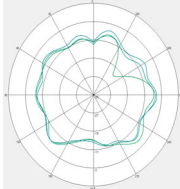
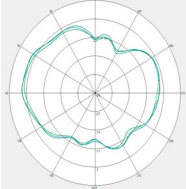
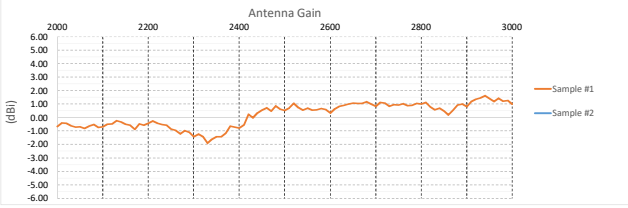
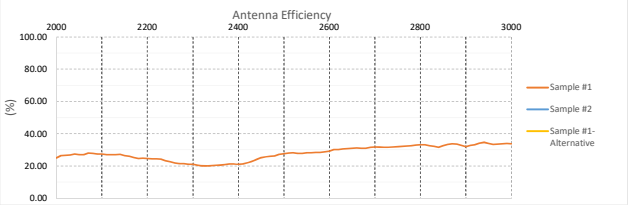
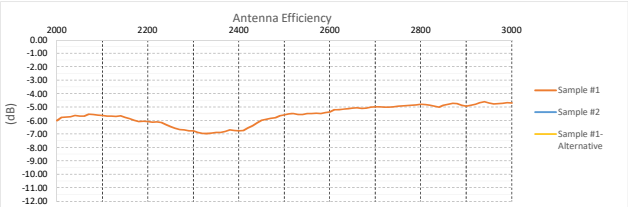
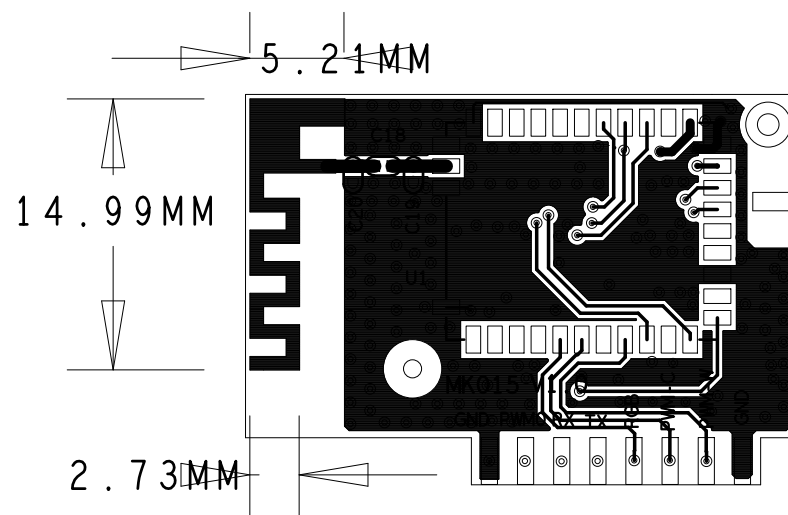


LEEDARSON 立达信		Antenna Test Report		Version: 2025-09-02_V2.5
Product Information				
Client	立达信	Protocol	wifi+BLE	
Project Number		Sample Quantity	1	
Model Number	MKC15 V1.0	PCB Version	FS024-KZQ-M V1.0	
Chip Type		Structure Version	正式模	
Sample Picutres				
Summary				
No.	Item	Result	Limit	Judgment
1	VSWR	2.32	< 2.5	Pass
2	Antenna efficiency	-6.76 dB	> -7 dB	Pass
Conclusion	PASS			
Revision history				
Testor	zhuwei	Test Date	2025.11.4	
Version	Date	Revise Content	Reviser	
V2.0	2025.11.4	Establish	zhuwei	

Test setting						
SY-16M Test System		Sample Picture				
						
						
Antenna Matching						
		Matching Component				
		Position	No. 1	No. 2	No. 3	
		Item No.				
		Value				
		1st				
		2nd				
		3rd				
		Remark				
Passive Test Results						
VNA Data		Chamber Data				
Original Result of Simulation Setting		Frequency (MHz)	Gain (dBi)	Efficiency (dR)	3D	$\theta = 90^\circ$ (XY Plane)
		2400	-0.78	-6.76		
		2410	-0.54	-6.73		
		2420	0.26	-6.55		
		2430	-0.02	-6.39		
		2440	0.33	-6.17		
		2450	0.56	-5.98		
Final Tuning Result		2460	0.71	-5.90		
		2470	0.48	-5.84	$\phi = 0^\circ$ (XZ Plane)	$\phi = 90^\circ$ (YZ Plane)
		2480	0.86	-5.79		
		2490	0.64	-5.65		
		2500	0.54	-5.57		
		-	-	-		
		MIN	-0.78	-6.76		
		MAX	0.86	-5.57		
		AVG	0.28	-6.12		

Efficiency and Gain										
Spec			Sample #1			Sample #2			Sample #1- Alternative	
Frequency (MHz)	Spec (dB)	Spec (%)	Gain (dB)	Efficiency γ (dB)	Efficiency γ (%)	Gain (dB)	Efficiency γ (dB)	Efficiency γ (%)	Gain (dB)	Efficiency γ (dB)
2000			-0.65	-6.01	25.08					
2010			-0.39	-5.76	26.55					
2020			-0.43	-5.74	26.69					
2030			-0.60	-5.70	26.90					
2040			-0.69	-5.62	27.43					
2050			-0.67	-5.67	27.08					
2060			-0.81	-5.67	27.13					
2070			-0.64	-5.53	27.99					
2080			-0.50	-5.55	27.85					
2090			-0.72	-5.60	27.52					
2100			-0.69	-5.61	27.46					
2110			-0.49	-5.67	27.09					
2120			-0.46	-5.66	27.14					
2130			-0.24	-5.68	27.05					
2140			-0.33	-5.63	27.34					
2150			-0.48	-5.76	26.58					
2160			-0.57	-5.84	26.04					
2170			-0.86	-5.96	25.34					
2180			-0.47	-6.06	24.77					
2190			-0.56	-6.05	24.82					
2200			-0.43	-6.08	24.67					
2210			-0.24	-6.11	24.47					
2220			-0.42	-6.10	24.57					
2230			-0.52	-6.13	24.39					
2240			-0.56	-6.31	23.37					
2250			-0.84	-6.45	22.67					
2260			-0.95	-6.57	22.02					
2270			-1.21	-6.65	21.61					
2280			-0.96	-6.68	21.50					
2290			-1.09	-6.76	21.10					
2300			-1.41	-6.77	21.05					
2310			-1.23	-6.88	20.50					
2320			-1.41	-6.94	20.23					
2330			-1.90	-6.97	20.11					
2340			-1.61	-6.92	20.30					
2350			-1.42	-6.88	20.53					
2360			-1.43	-6.88	20.53					
2370			-1.15	-6.81	20.86					
2380			-0.64	-6.70	21.40					
2390			-0.70	-6.73	21.26					
2400			-0.78	-6.76	21.10					
2410			-0.54	-6.73	21.25					
2420			0.26	-6.55	22.11					
2430			-0.02	-6.39	22.98					
2440			0.33	-6.17	24.13					
2450			0.56	-5.98	25.23					
2460			0.71	-5.90	25.72					
2470			0.48	-5.84	26.07					
2480			0.86	-5.79	26.39					
2490			0.64	-5.65	27.22					
2500			0.54	-5.57	27.72					
2510			0.72	-5.50	28.16					
2520			1.06	-5.48	28.35					
2530			0.74	-5.54	27.94					
2540			0.56	-5.55	27.87					
2550			0.70	-5.48	28.31					
2560			0.55	-5.48	28.32					
2570			0.59	-5.44	28.54					
2580			0.68	-5.47	28.40					
2590			0.61	-5.39	28.89					
2600			0.34	-5.35	29.19					
2610			0.65	-5.19	30.28					
2620			0.84	-5.19	30.29					
2630			0.91	-5.13	30.70					
2640			1.00	-5.12	30.79					
2650			1.07	-5.08	31.07					
2660			1.05	-5.05	31.23					
2670			1.06	-5.09	31.00					
2680			1.17	-5.08	31.07					
2690			1.00	-4.98	31.73					
2700			0.85	-4.97	31.84					
2710			1.13	-4.96	31.90					
2720			1.08	-5.00	31.63					
2730			0.84	-4.99	31.72					
2740			0.96	-4.98	31.78					
2750			0.94	-4.93	32.12					
2760			1.02	-4.91	32.29					
2770			0.88	-4.88	32.50					
2780			0.91	-4.85	32.74					
2790			1.06	-4.82	32.97					
2800			1.02	-4.78	33.27					
2810			1.13	-4.79	33.16					
2820			0.78	-4.86	32.63					
2830			0.57	-4.92	32.21					
2840			0.69	-4.99	31.71					
2850			0.48	-4.85	32.73					
2860			0.19	-4.77	33.34					
2870			0.53	-4.71	33.78					
2880			0.94	-4.73	33.63					
2890			1.00	-4.84	32.79					
2900			0.82	-4.93	32.12					
2910			1.21	-4.84	32.78					
2920			1.35	-4.79	33.19					
2930			1.46	-4.66	34.21					
2940			1.63	-4.60	34.71					
2950			1.41	-4.69	33.98					
2960			1.19	-4.76	33.44					
2970			1.43	-4.73	33.61					
2980			1.23	-4.72	33.76					
2990			1.26	-4.67	34.11					
3000			1.01	-4.69	33.93					





Raw File List							
No.	Item	File Type	Sample #1		Sample #2	Sample #1- Alternative	Remark
1	VSWR	SnP					Final Tuning Result
2	Passive data	trx					
3							