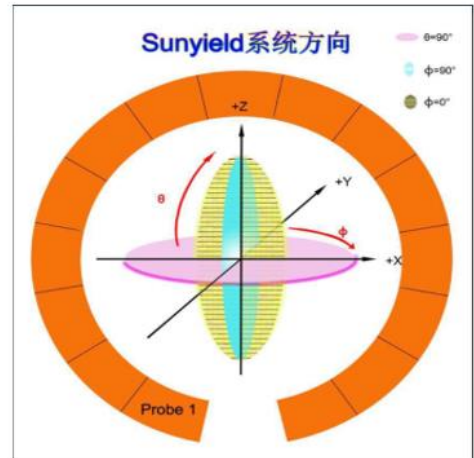


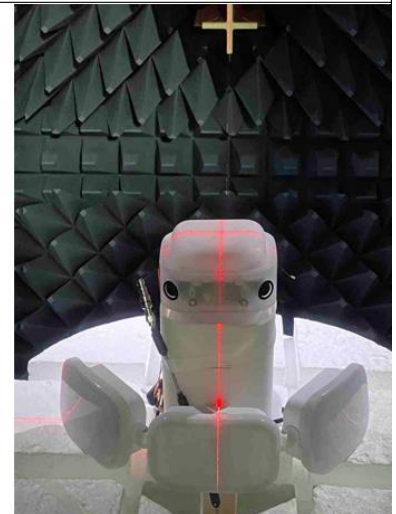
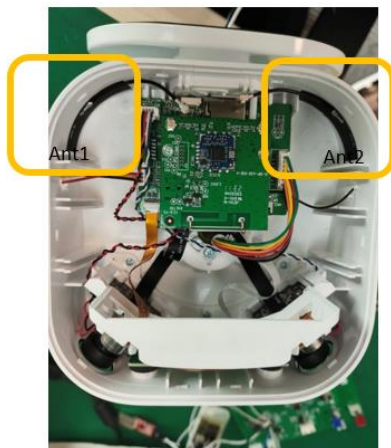
Product Information						
Client		LDS		Protocol		WiFi+Ele
Project Number		IOT220905002		Sample Quantity		1
Model Number		BL-M8192FUE		PCB Version		D-SIP-A30-01D-A-V2.0-Y1
Chip Type		RTL8192FC		Structure Version		正式模
Sample Picutres						
Summary						
No.	Iterms	Idex			Test Result	Conclusion
1	Efficiency (%)	A (≥45%)	B (25%~44.99%)	C≤24.99%	WiFi 1: 52.04% WiFi 2: 52.79%	A
2	VSWR	≤2.5			1.9	PASS
3	Distance Test	WiFi 100M	BLE 10M	Zigbee 40M	100M	PASS
Author		DeYun Li			Test Date	2023.04.17
Verifier		DeYun Li			Review Date	2023.04.17
Version		V1.0			Revise Content	Reviser

SY-16M Test System

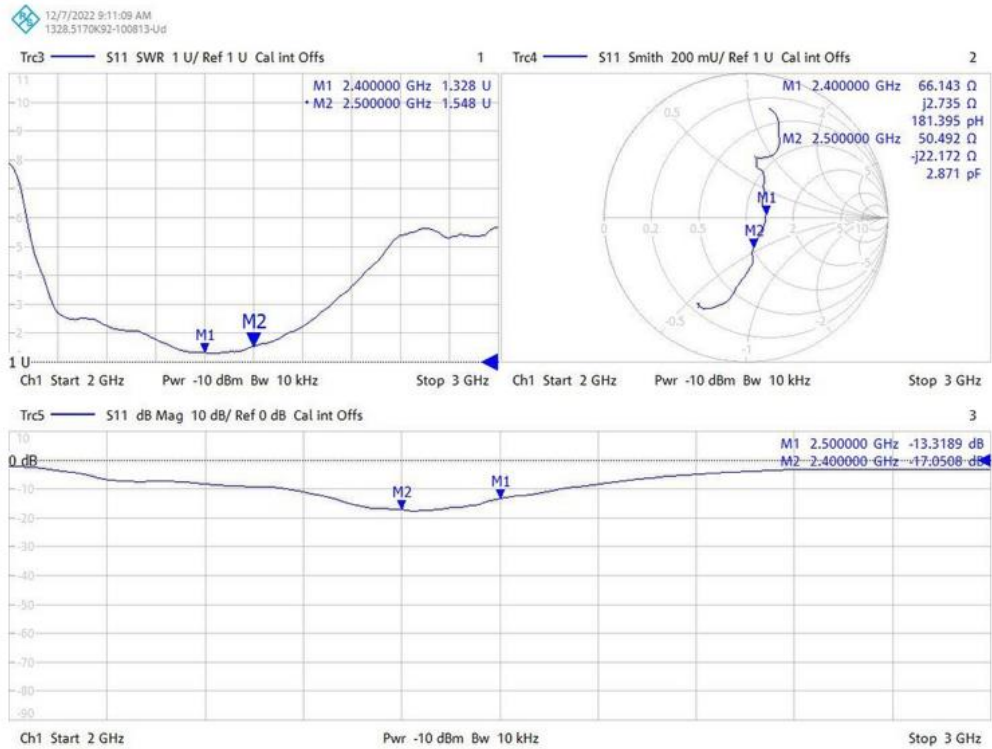


WIFI ANT1

Sample Picture



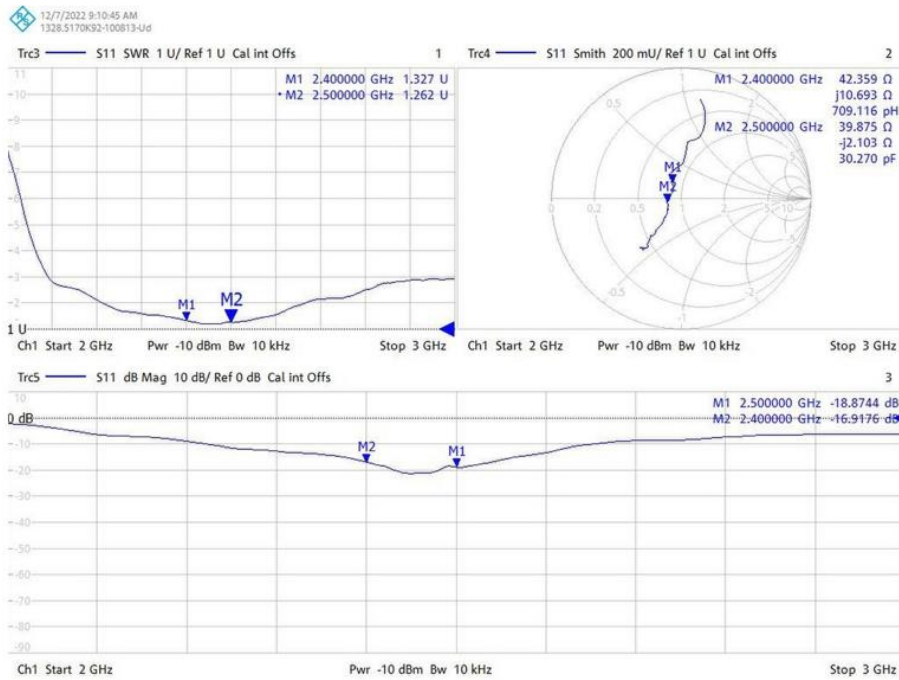
VNA Data



Frequency (MHz)	Gain (dBi)	Efficiency (dB)	3D	$\theta = 90^\circ$ (XY Plane)
2400	-2.63	54.58		
2410	-2.67	54.02		
2420	-2.73	53.38		
2430	-2.81	52.30		
2440	-2.86	51.76		
2450	-2.89	51.36		
2460	-2.97	50.50		
2470	-2.95	50.74	$\phi = 0^\circ$ (XZ Plane)	$\phi = 90^\circ$ (YZ Plane)
2480	-2.90	51.26		
2490	-2.87	51.64		
2500	-2.94	50.86		
MIN	-2.97	50.50		
MAX	-2.63	54.58		
AVG	-2.84	52.04		

WIFI ANT2

VNA Data

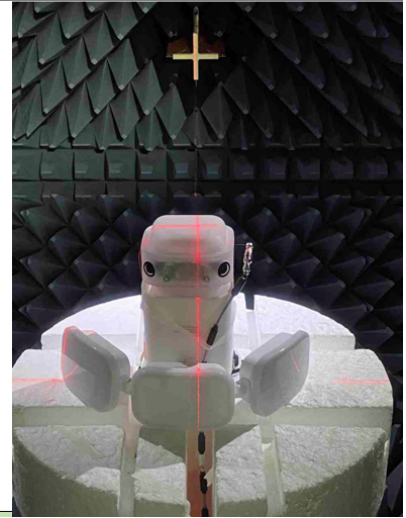
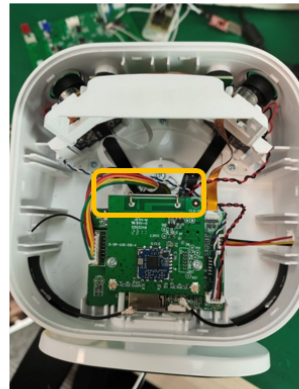
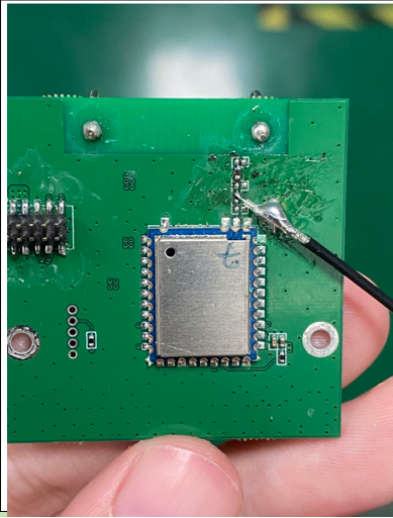


Chamber Data

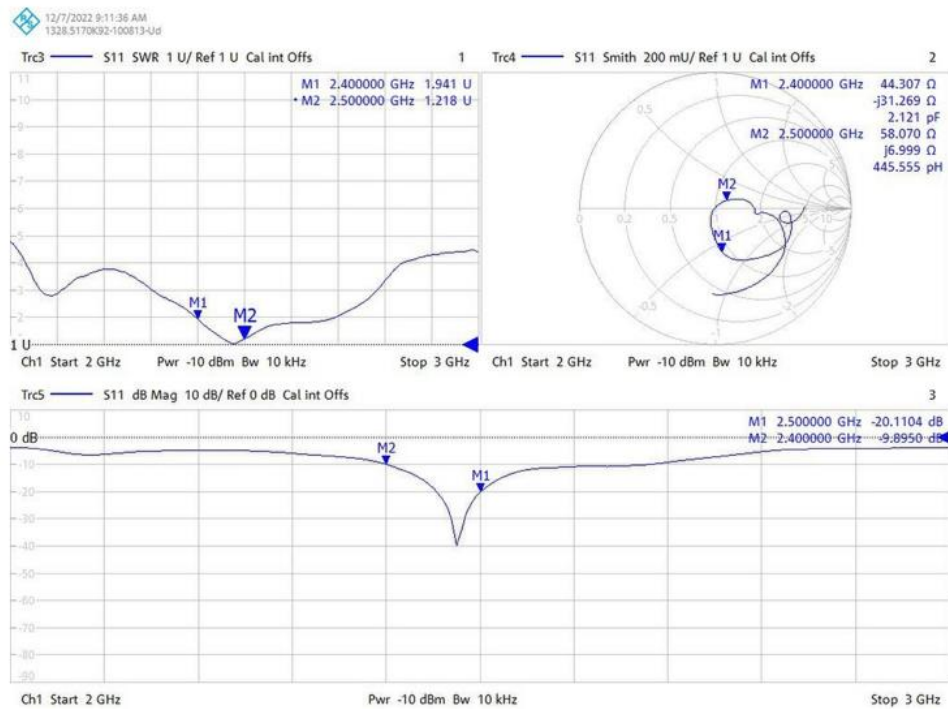
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	3D	$\theta = 90^\circ$ (XY Plane)
2400	-2.83	52.14		
2410	-2.85	51.87		
2420	-2.84	51.98		
2430	-2.86	51.70		
2440	-2.81	52.35		
2450	-2.74	53.20		
2460	-2.74	53.26		
2470	-2.68	53.92	$\phi = 0^\circ$ (XZ Plane)	$\phi = 90^\circ$ (YZ Plane)
2480	-2.71	53.60		
2490	-2.70	53.71		
2500	-2.76	52.94		
MIN	-2.86	51.70		
MAX	-2.68	53.92		
AVG	-2.78	52.79		

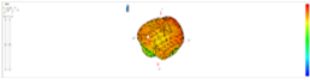
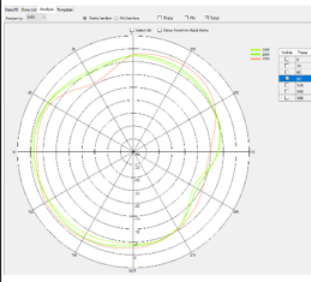
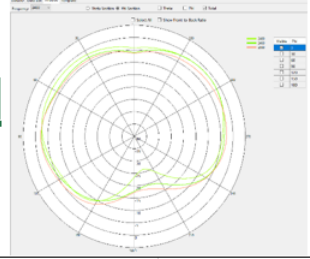
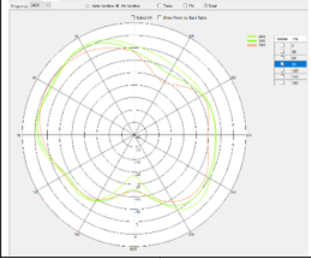
BT ANT

Sample Picture



VNA Data



Chamber Data				
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	3D	$\theta = 90^\circ$ (XY Plane)
2400	-3.76	42.06		
2410	-3.66	43.06		
2420	-3.55	44.21		
2430	-3.83	42.37		
2440	-3.80	41.72		
2450	-3.70	42.71		
2460	-3.91	41.14		
2470	-4.19	39.66	$\phi = 0^\circ$ (XZ Plane)	$\phi = 90^\circ$ (YZ Plane)
2480	-4.33	39.87		
2490	-4.39	39.43		
2500	-4.54	39.18		
MIN	-4.54	39.18		
MAX	-3.55	44.21		
AVG	-3.97	41.40		