

WiFi Antenna Evaluation Report

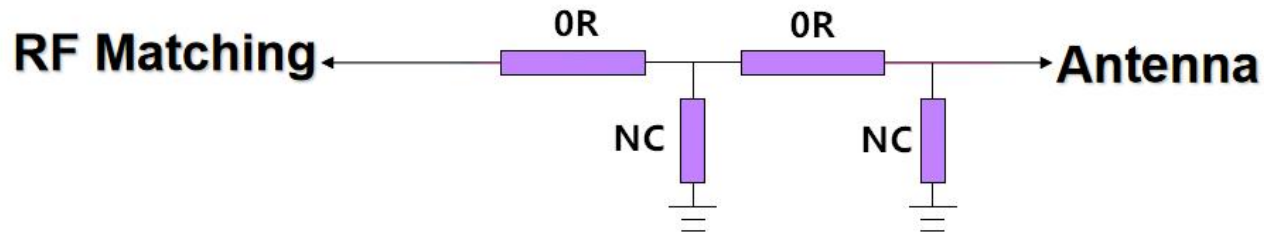
Customer	WeiKengtech	Project	Onboard antenna
Report Version	V1.0	Report Date	
Prepared by	Xiliang shu	Checked by	



Project assessment RF requirements profile

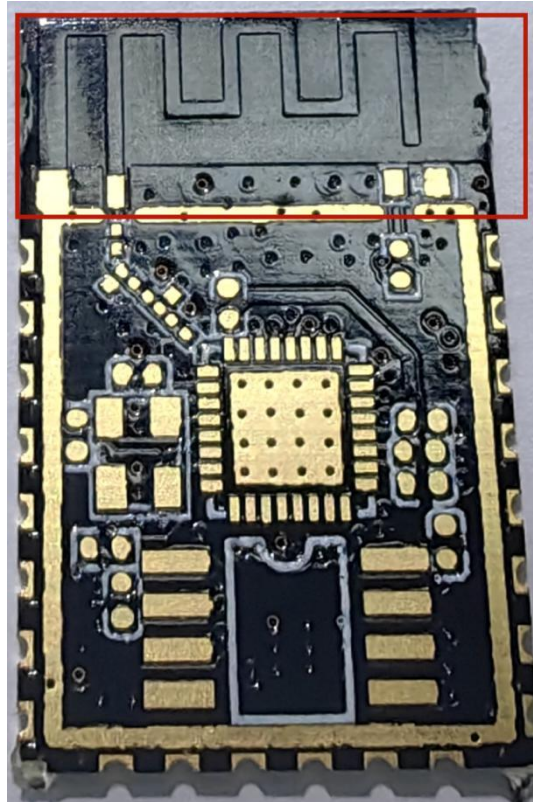
type	Onboard antenna		
Antenna type			
Frequency and materials	Main antenna		Materials
	Wi-Fi	2400-2500MHz	cu

2. ANTENNA-MATCH ---simple module



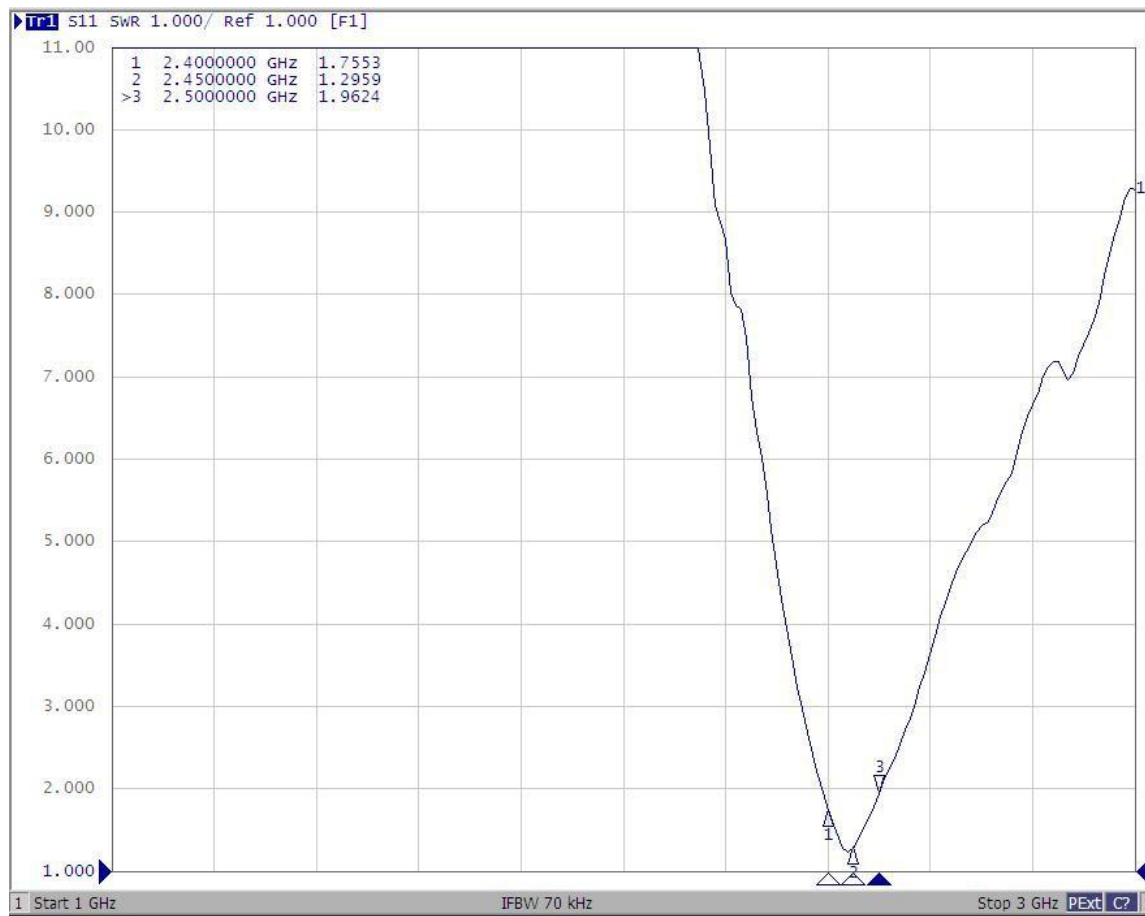
Focused and sustained doing one thing

3. Antenna location---simple module



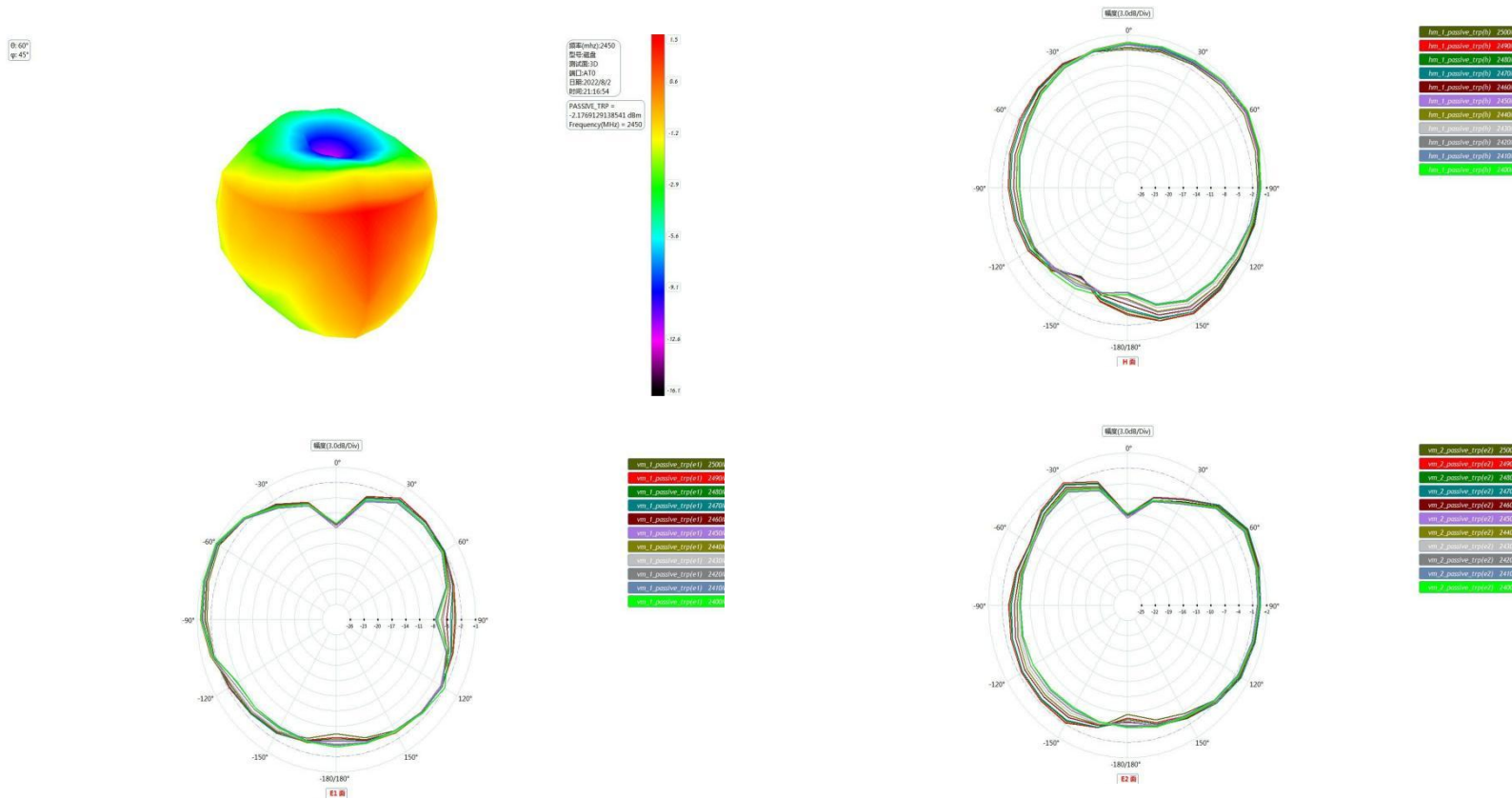
Focused and sustained doing one thing

4. S-parameter---simple module



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5.2D&3D field diagram---simple module



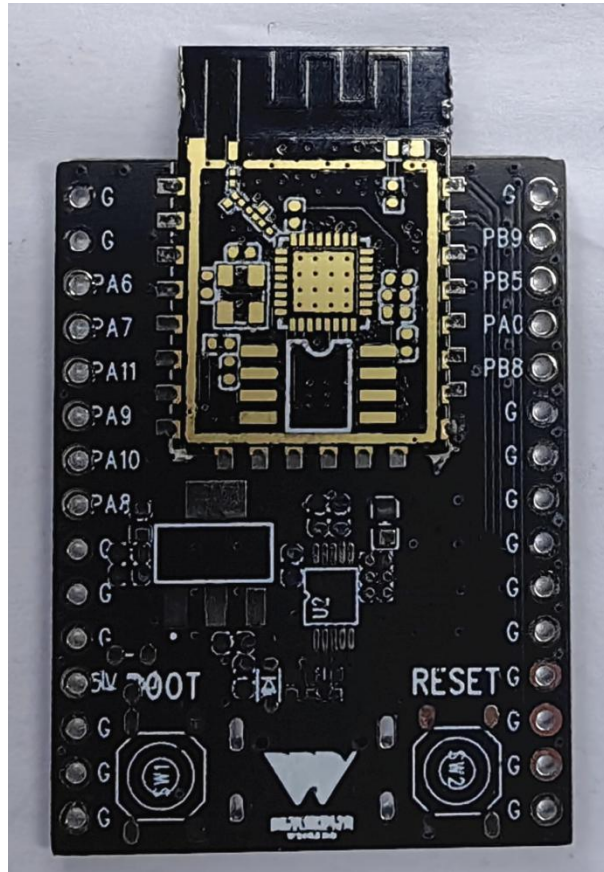
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6.OTA Effi & gain---simple module

Freq (MHz)	Effi (%)	Gain (dBi)
2400	60.12	1.51
2410	56.62	1.32
2420	57.94	1.49
2430	59.98	1.60
2440	63.53	1.81
2450	60.53	1.48
2460	63.68	1.58
2470	68.39	1.79
2480	66.53	1.58
2490	67.92	1.68
2500	65.61	1.52

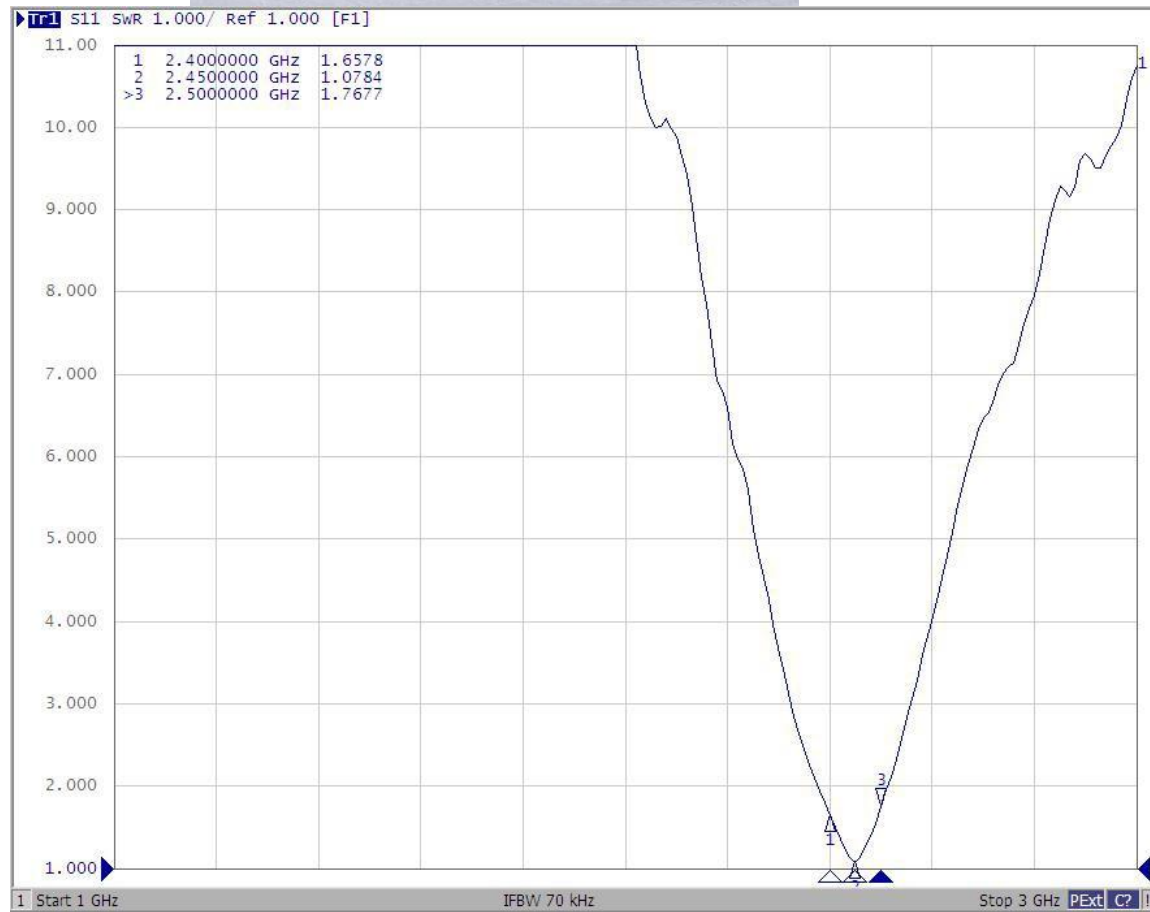
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7. Antenna location---module and test board



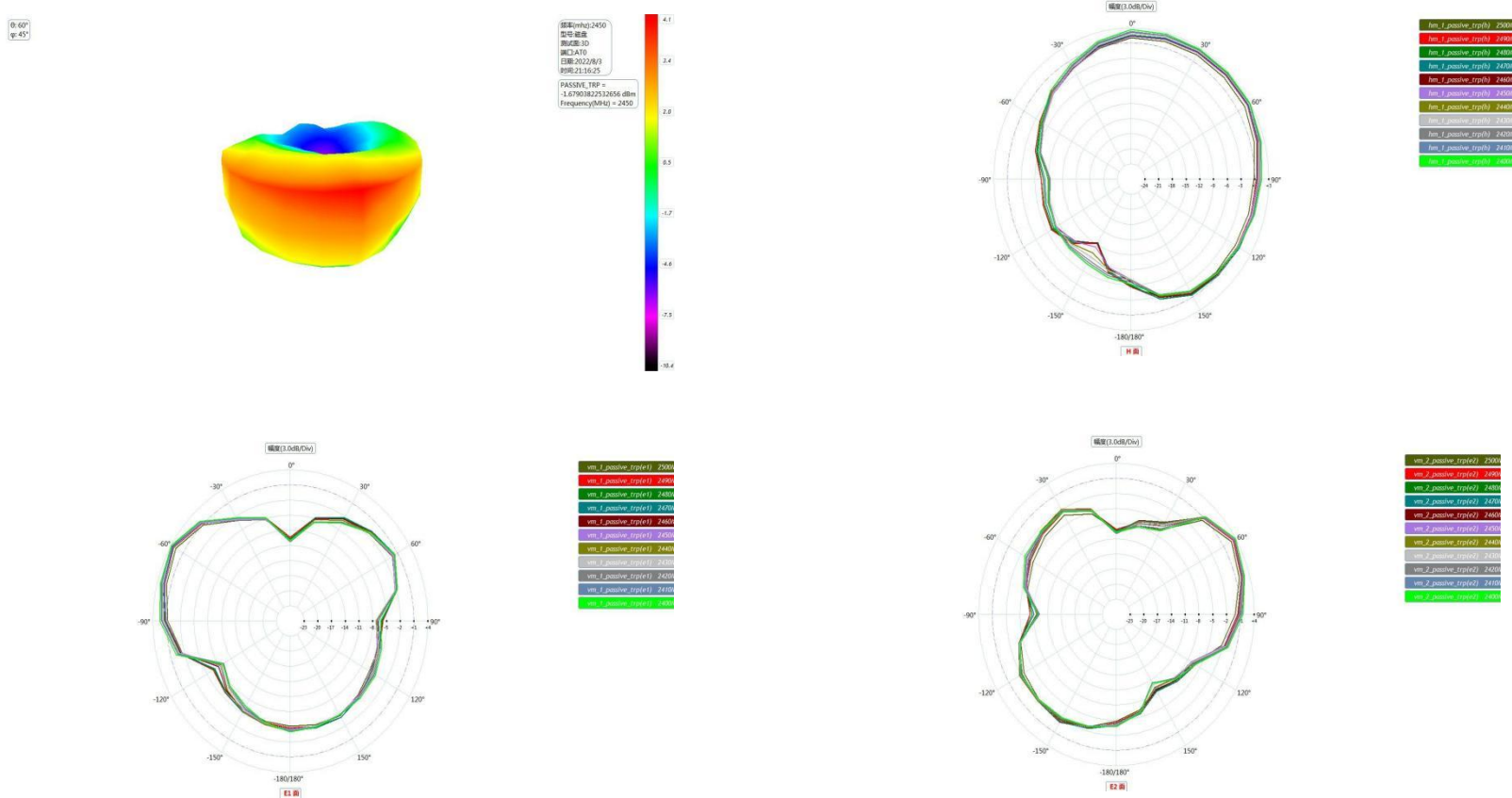
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8.S-parameter---module and test board



Focused and sustained doing one thing

9.2D&3D field diagram---module and test board



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10. OTA Effi & gain---module and test board

Freq (MHz)	Effi (%)	Gain (dBi)
2400	75.16	4.61
2410	72.95	4.55
2420	73.11	4.67
2430	71.12	4.47
2440	72.95	4.56
2450	67.92	4.13
2460	69.5	4.13
2470	72.95	4.21
2480	70.15	3.99
2490	68.87	3.86
2500	62.37	3.45

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11.OTA TPR & TIS

	信道	TPR	TIS
802.11 b 11M	1	17.8	-87
	6	17.4	-87
	11	17.2	-87
	信道	TPR	TIS
802.11 g 54M	1	15.3	-75
	6	15	-75
	11	14.7	-75
	信道	TPR	TIS
802.11 n MCS7	1	14.7	-72
	6	14.3	-72
	11	14	-72

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 *Thanks!*

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