

Antenna Test Report

SHENZHEN MINGYUHENG

***Customer:Viqee
Project:F40DS***

***RF Engineer:joey
Testing Date:2026.8.19***

***ADD: 5C Building, Units 407-409, Huaqiang Creative Industry Park, Biyan
Community, Guangming Street, Guangming District, Shenzhen, China***

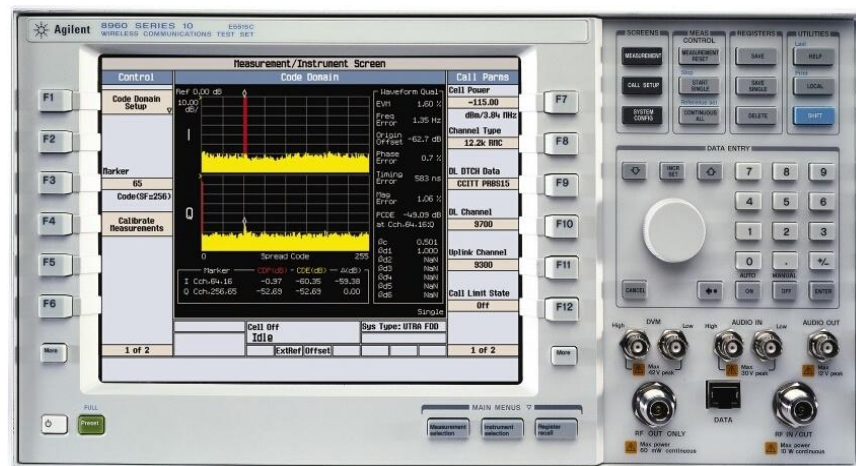
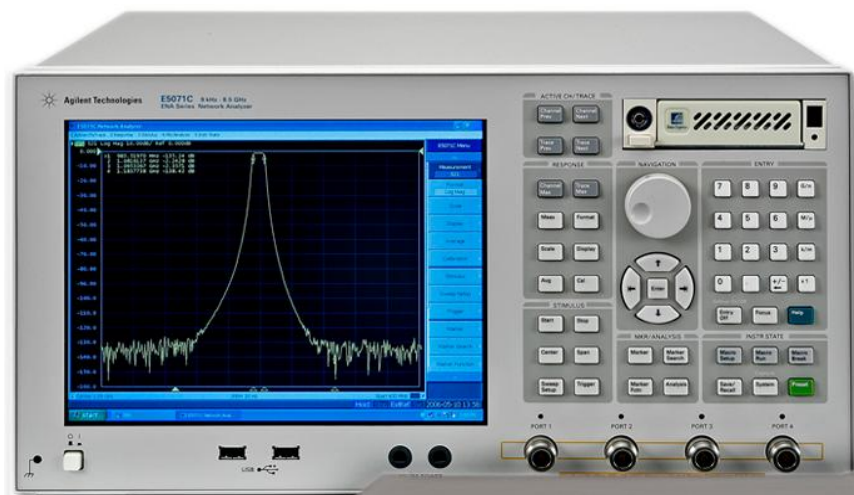
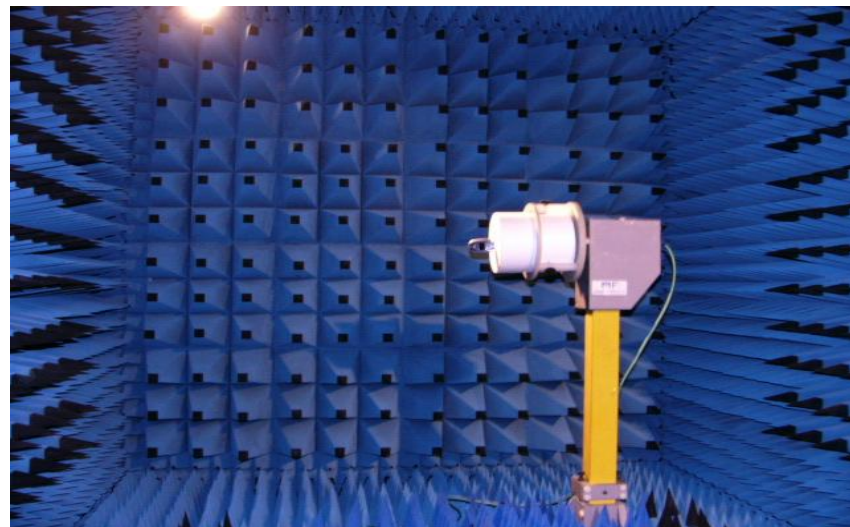
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1. The Equipment of Active Test

- 1: Anechoic Chamber 7x4x3 m (3D)
- 2: Rohde & Schwarz CMW500
- 3: AGILENT 8960 5515C
- 4: Network Analyzer-AGILENT ENA5071B



2. Project Change Record

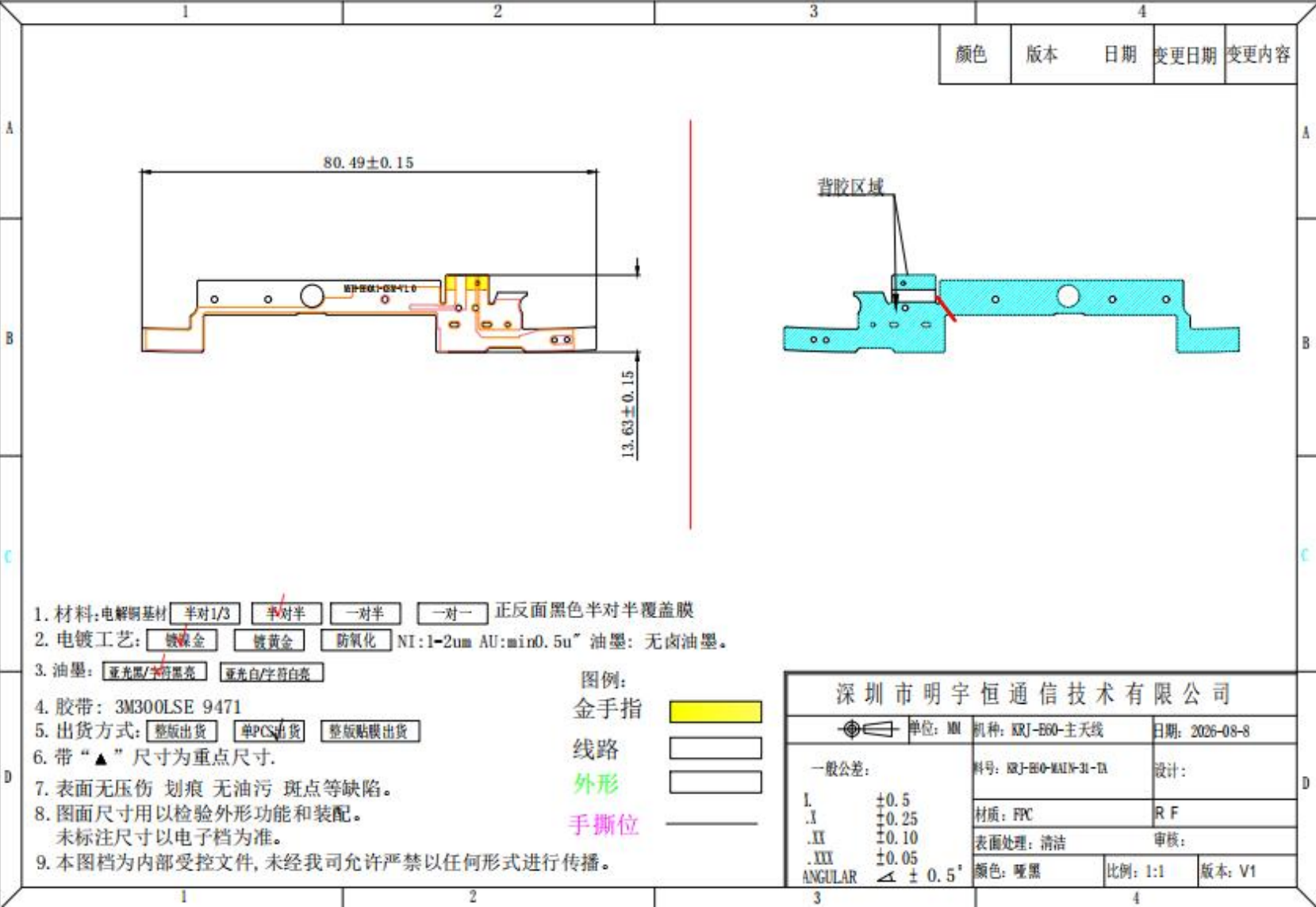
Report Version	Date	Change Description
V1.0	2026.7.3	Antenna test
V1.1	2026.7.13	Antenna re-tuning
V1.2	2026.7.17	Verification of antenna, logic and matching circuit
V1.3	2026.7.23	Retest of pilot-run devices
V1.4	2026.7.31	Antenna optimization

3. Matching Circuits

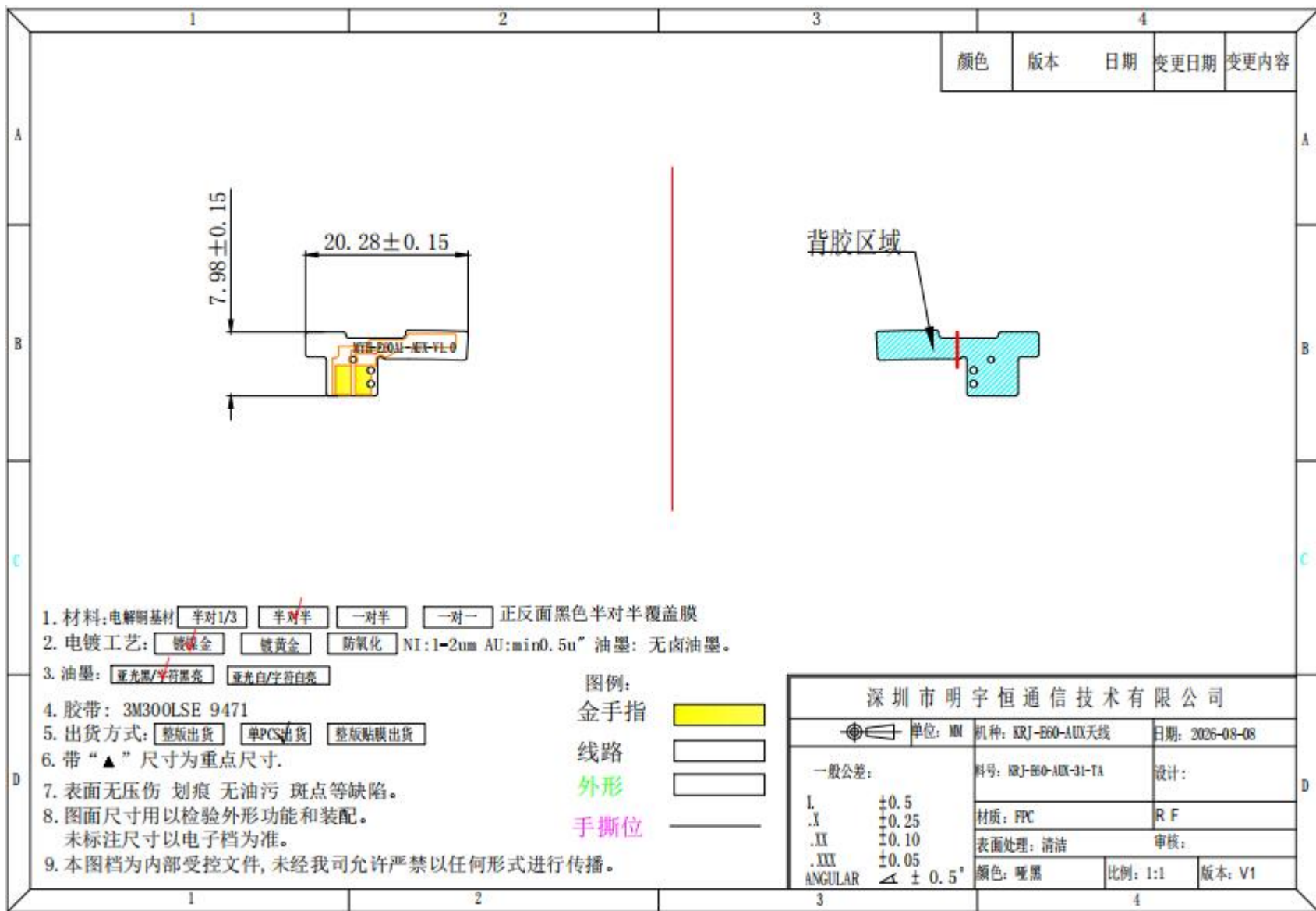
Antenna Name	Matching Modified	Remarks
Main Antenna	No	
Diversity Antenna	No	
3- in- 1 Antenna	No	

Switch Matching Logic	Switch Path	Value	2G	3G	4G
	RF1=L107	0 Ω	900/1800/1900	W1/2/4/8	B1/2/3/4/8/66/38/41
	RF2=L108	6.2nH	850	W5	B5/B20
	RF3=L109	27nH			B12/17/28/B40
	RF4=L110	NC			B71
	L105	0 Ω			
	L106	NC			

4.Antenna Data



Main Antenna Data



Diversity Antenna Data

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Band	Gain(dBi)	Band	Gain(dBi)
GSM850	-0.7	B7	0.5
GSM900	0.1	B8	0.1
GSM1800	0.6	B12	-3.5
GSM1900	0.6	B17	-3.5
W1	0.6	B28	-3.5
W2	0.6	B66	0.6
W4	0.6	B71	-4.5
W5	-0.7	B38	0.5
W8	0.1	B40	0.2
B1	0.6	B41	0.5
B2	0.6	BT/WIFI2.4G	0.5
B3	0.6	WIFI 5.8G	0.5
B4	0.6	GPS	0.1
B5	-0.7		

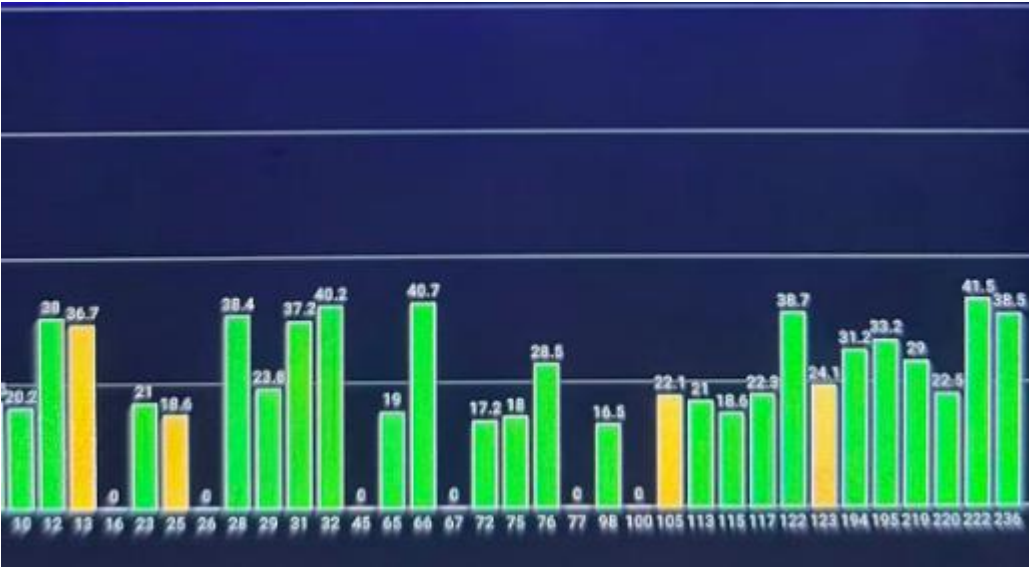
5. Test Data

1#	CH	TRP (OTA)	TIS (OTA)	1#	CH	TRP (OTA)	TIS (OTA)	
GSM850	128	23. 56		WCDMA B1	9612	17. 03		
	190				9750			
	251	23. 75	-102. 75		9888	15. 47	-103. 15	
GSM900	975	23. 01	-102. 05	WCDMA B2	9262	17. 22		
	38				9400			
	124	24. 05	-100. 1		9538	17. 12	-104. 27	
DCS1800	512	24. 01		WCDMA B4	1312	16. 57		
	699				1413			
	885	24. 37	-103. 07		1513	17. 12	-102. 4	
PCS1900	512	24. 56		WCDMA B5	4132	15. 77		
	661				4183			
	810	24. 77	-103. 11		4233	16. 25	-103. 15	
				WCDMA B8	2712	14. 32		
					2788			
					2863	15. 02	-102. 78	

	CH	TRP (OTA)	TIS (OTA)		CH	TRP (OTA)	TIS (OTA)		CH	TRP (OTA)	TIS (OTA)
B1	18050	17. 56		B12	23050	15. 45		B40 (20 M)	38750	17. 12	
	18300				23090				39150		
	18550	16. 04	-90. 15		23130	15. 67	-90. 25		39550	17. 12	-90. 24
B2	18650	17. 44		B17	23780	15. 92		B41 (20 M)	40340	17. 75	
	18900				23790				40620		
	19150	17. 53	-92. 45		23800	15. 68	-90. 17		41140	15. 64	-90. 33
B3	19250	16. 02		B20	24200	16. 57					
	19575				24300						
	19900	17. 45	-92. 15		24400	16. 58	-90. 13				
B4	20000	16. 01		B28	27260	16. 65					
	20175				27435						
	20350	17. 57	-90. 17		27610	17. 56	-90. 67				
B5	20450	16. 37		B66	132022	16. 01					
	20525				132322						
	20600	17. 21	-91. 12		132622	17. 21	-90. 17				
B7	20850	17. 45		B71	133172	15. 45					
	21100				133297						
	21350	17. 37	-90. 3		133422	15. 41	-88. 1				
B8	21500	15. 35		B38 (20 M)	37850	17. 45					
	21625				38000						
	21750	16. 94	-90. 25		38150	16. 12	-90. 45				

6. GPS / WIFI / BT

GPS Actual Test Report	
Location	Test Result
Company Rooftop	Cold start positioning in 80s, maximum C/N value 41.5, number of usable satellites ≥ 5 .



	WIFI2.4G _(b/11m)		
	1	6	11
TRP	14.0	15.3	14.1
TIS	-81.5	-82.2	-81.2

	WIFI5.8G _(a/54m)		
	36		165
TRP	15.1		11.2
TIS	-72.2		-70.2