

Shenzhen YunShang Electronics Co., Ltd

VIU-500 Antenna commissioning report

Report version: 2024/12/30

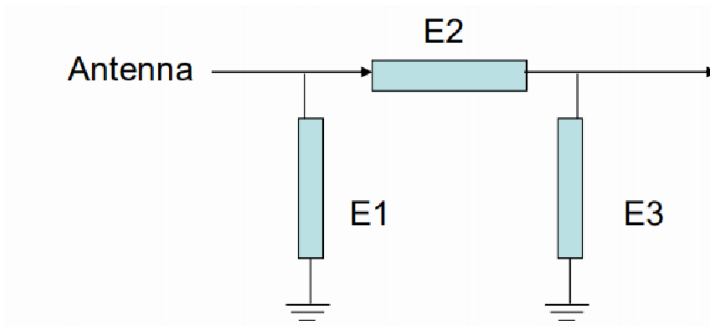
Project introduction

Model	Handheld mobile device						
Antenna	Main antenna	Bands		Material	Form	Area	Match
		2G	G850/1900	FPC			
		3G	2/5				
		4G	LTE2/4/5/7				
		5G	NA				
	Other antenna	WIFI	2.4G/5G	FPC			
		GPS					
		Diversity	NA				
Sample status	Dubugging sample		Environmental treatment				

Report Version Summary

[illegible]

Main antenna match



The original match is
unchanged

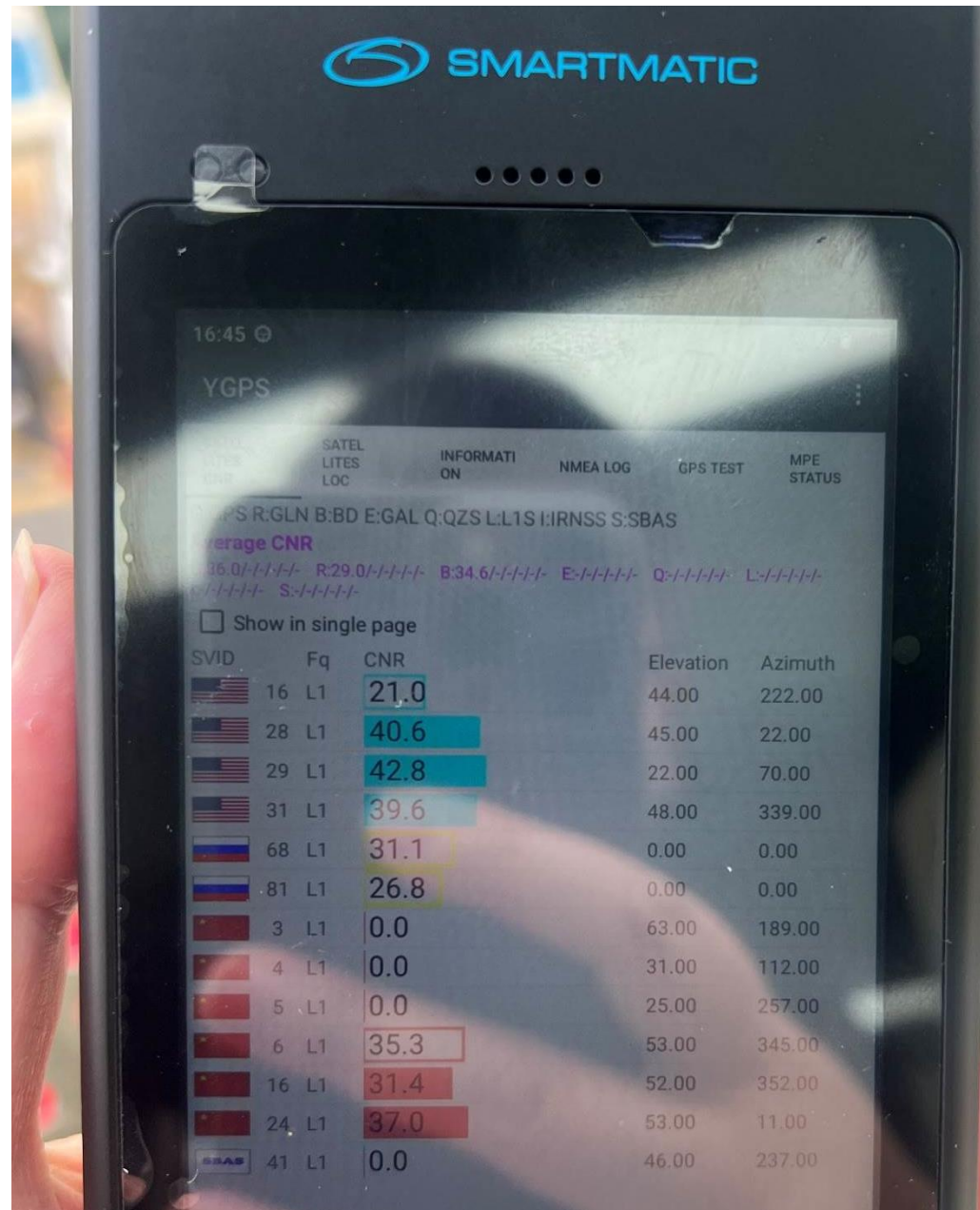
Main antenna chamber data

	Channel	TRP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)
FDD B2	20450	19.35											
	20525	19.77											
	20600	19.48	-90.57										
FDD B4	20000	19.44											
	20175	18.53											
	20350	18.45	-94.59										
FDD B5	20450	19.31											
	20525	18.68											
	20600	19.21	-94.39										
FDD B7	20800	19.39											
	21100	19.15											
	21400	17.99	-95.49										
W2	9262	17.56											
	9400	18.43											
	9538	17.81	-106.98										
W5	4132	17.52											
	4183	17.81											
	4233	18.23	-107.64										
GSM 850	128	26.96											
	190	27.21											
	251	27.42	-107.83										
G 1900	512	24.29											
	661	25.06											
	810	24.51	-105.77										

WIFI test result

BAND	2.4GWIFI			5GWIFI		
CHANNEL	low	medium	high	low	medium	high
TRP (dBm)	14. 1	14. 2	14. 4	10. 85	10. 44	10. 96
TIS (dBm)	-83. 8	-83. 7	-83. 2	-73. 75	-73. 26	-72. 88

GPS test result



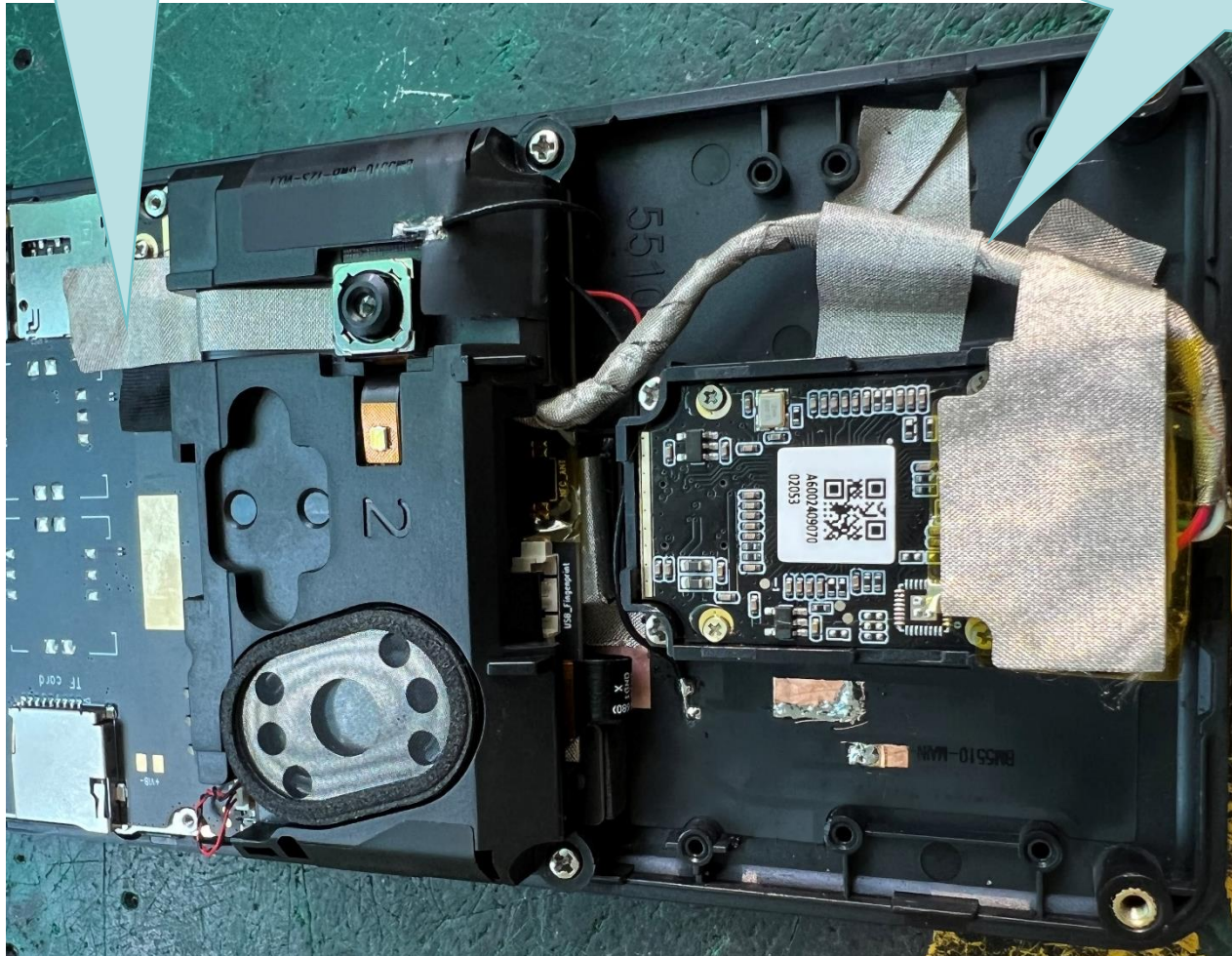
Three-in-one efficiency

测试数据报告		地址：深圳市龙华区人浪街道阿丰华创新产业园5栋2楼												
软件版本：SNF V2.4.2 导出时间：2024/12/13 11:07:02														
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Frequency (MHz)	1570	1575	1580	2400	2450	2500	5100	5200	5300	5400	5500	5600	5700	5800
Gain (dBi)	2.89	3.20	3.43	2.53	3.39	3.15	-1.14	1.56	-3.82	-0.98	1.56	2.60	4.58	5.56
Efficiency (dB)	-3.34	-3.02	-3.00	-2.46	-2.52	-2.36	-5.07	-7.36	-8.12	-6.32	-5.13	-4.60	-3.16	-3.11
Efficiency (%)	49.62	49.93	50.11	56.70	55.99	58.11	24.71	13.35	15.41	23.35	30.66	34.68	48.26	48.81
Plane: Phi=0	1570	1575	1580	2400	2450	2500	5100	5200	5300	5400	5500	5600	5700	5800
Plane: Phi=90	1570	1575	1580	2400	2450	2500	5100	5200	5300	5400	5500	5600	5700	5800
Plane: theta=90	1570	1575	1580	2400	2450	2500	5100	5200	5300	5400	5500	5600	5700	5800

Environmental treatment

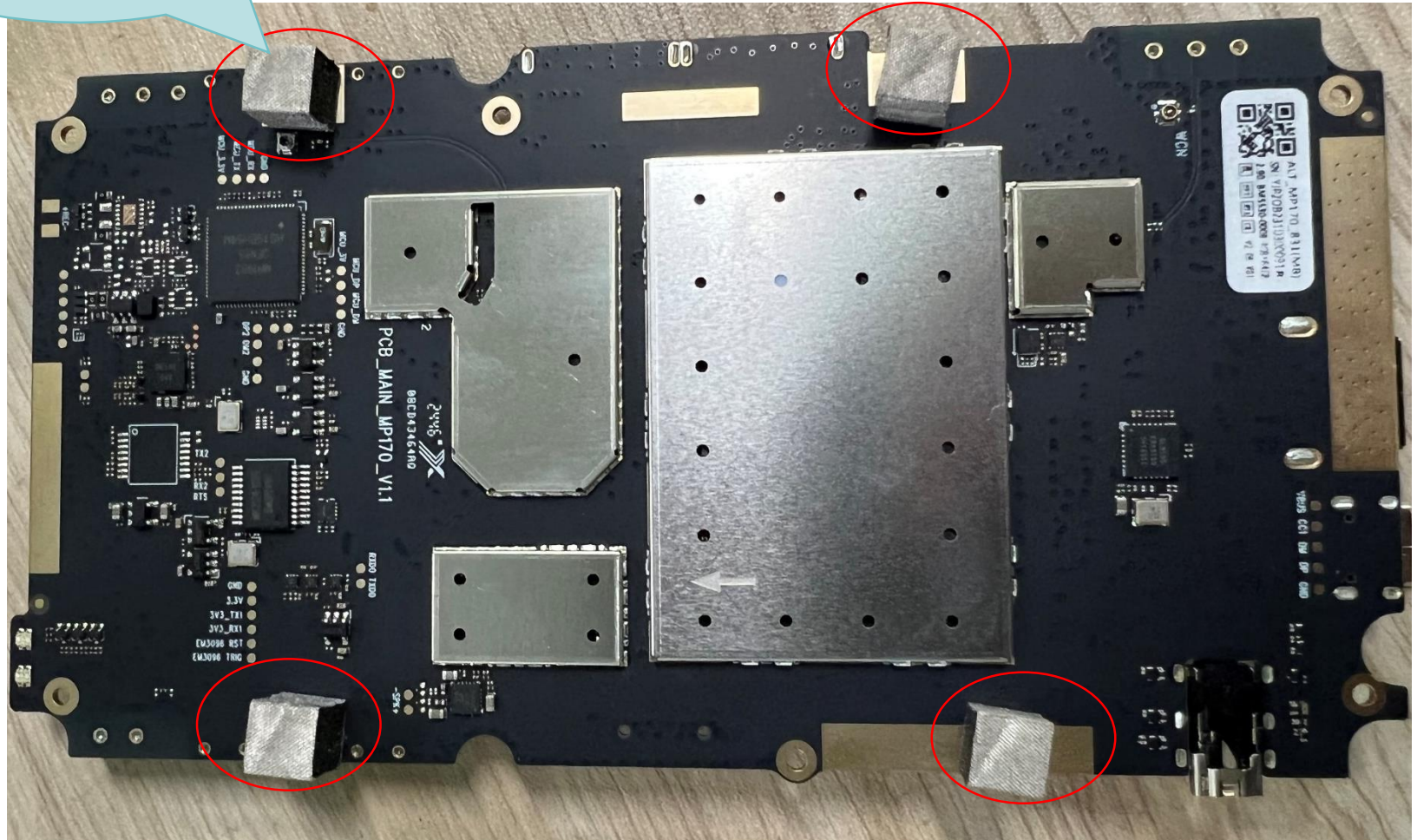
Camera sticker
conductive cloth
grounding

Put the USB cable
here, not over there
with the antenna



Environmental treatment

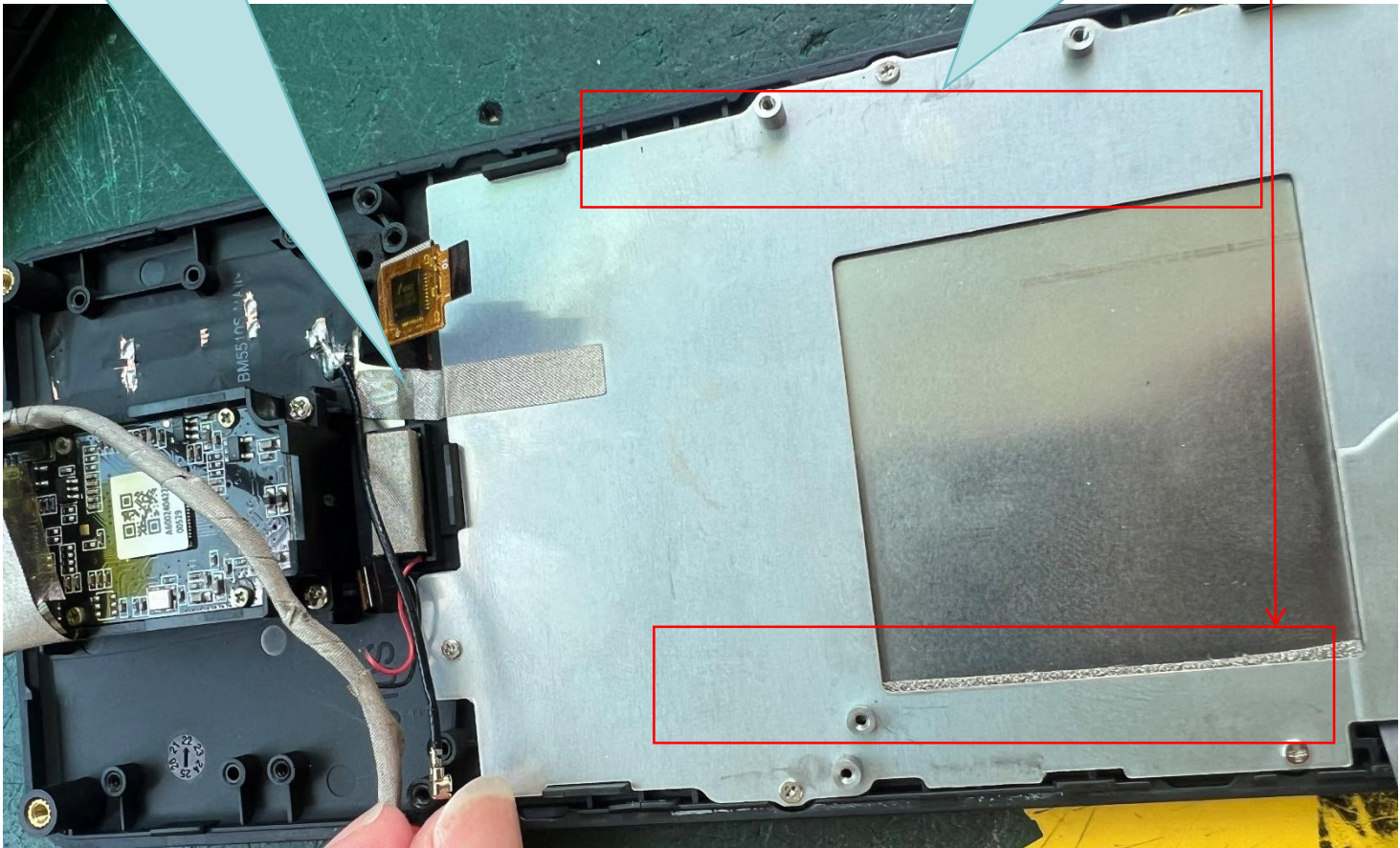
Replace this
conductive foam
with full contact



Environmental treatment

Paste conductive cloth on the steel sheet where the antenna leaks copper

Screen sticker conductive sponge grounding



Risk Tips for Debugging

Please carefully confirm whether the matching circuit mentioned in the report has been modified and whether the environmental treatment has been introduced, which will directly affect the antenna performance.

The parameters provided in this report are only the parameters of the sample given by the customer to our company for debugging, and do not represent the final mass production status of your company's final project.

If your company has the latest trial production or updated status (replacement of materials, update of software, change of environmental treatment, etc.), please submit it to our company for verification as soon as possible to confirm whether the antenna performance is affected.

If your company needs to send it to a third party for retesting or to a customer for testing, please be sure to send the machine to be tested to our company for testing and confirmation, because the consistency of the motherboard, the consistency of the assembly, and the difference in antenna assembly and other factors may lead to deviations in antenna parameters.

The End

The copyright of all information contained in this report belongs to our company. Please do not disseminate it to any third party without our permission.