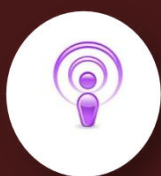




深圳市麒鑫通达科技有限公司
SHENZHEN QXTD Technology Co., Ltd



天线测试数据报告

Antenna test data report

LOGIC A5L

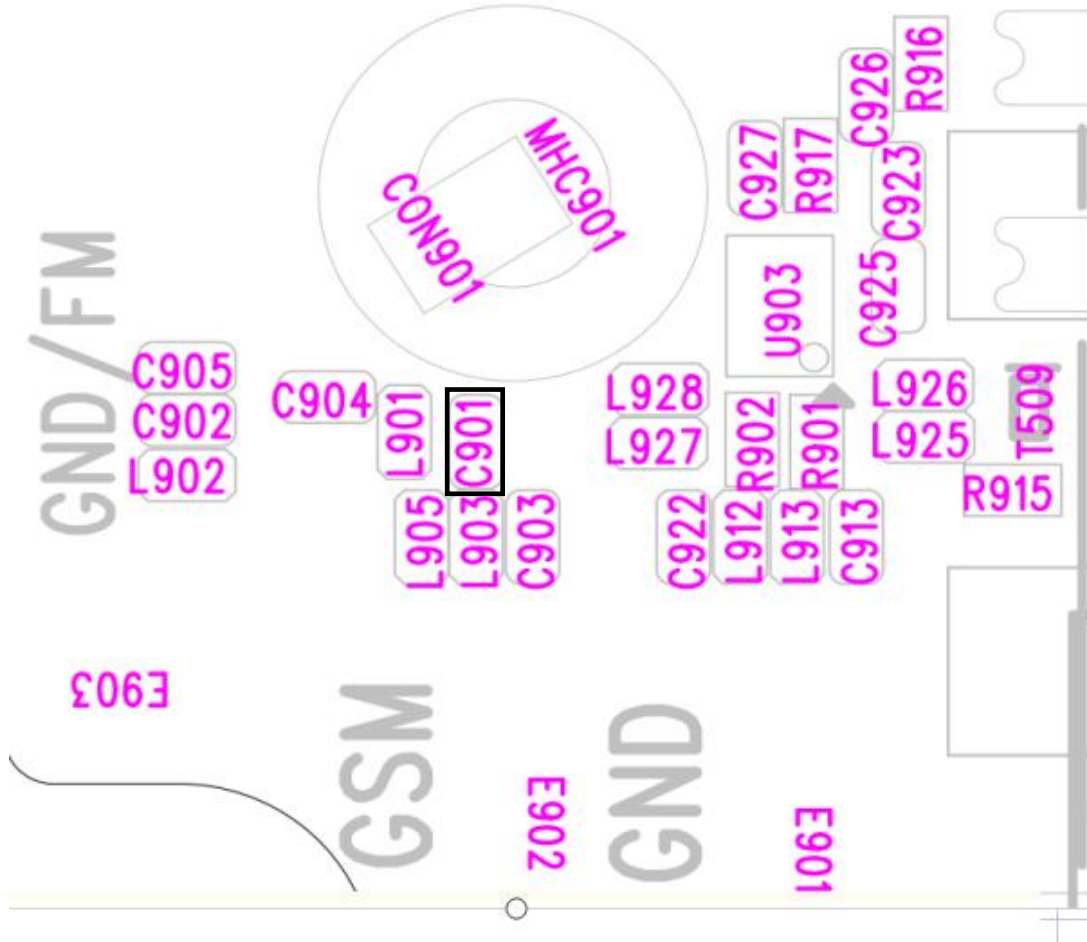
		test items
1. S Parameter	1. S Parameter	1. (RL) 2. (VSWR)
2. coupled power test	2. coupled power test	1. Max TRP (power) 2. TIS(level)



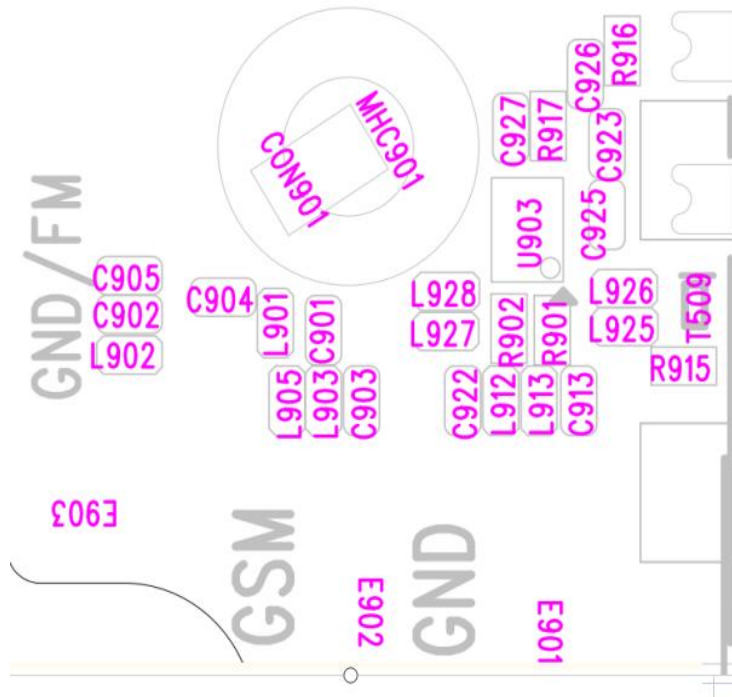


Match circuit diagram (main signal source)

Main signal source pin matching: the original 12nH of the digit number C901 is replaced with 15nH, and the match of other



Match the circuit diagram (tuning the elastic pin)



Tuned pinfoot match:

1. Position number L927 original 3nH cancel patch, L927 position number blank patch.
- 2, L913 increases 68nH inductance, and C913 increases 39pf capacitance.
3. R901 adds 12nH inductance (tentative match here and may be adjusted later). The R902 uses the 0 Ω connection tuning switch.

tuner logic	
Connector	Bands
RF1 (L925 OR)	GSM:B2/B3/8
	WCDMA:B1/B2/B8
	LTE: B1/B2/B3/B4/B8
RF2 (L926 3.9nH)	GSM: B5
	WCDMA: B5
	LTE: B5
RF3 (L927 NC)	LTE: B12/B28AB
RF4(L928 NC)	

Match circuit diagram (main signal source)



Model	2G&3G&4G								
A5L	GSM850			GSM900			DCS1800		
Channel	L	M	H	L	M	H	L	M	H
TRP(dBm)	27.2	27.3	27.6	28.5	28.6	28.2	24.5	24.3	24.2
TIS(dBm)	-102.9	-102.6	-102.3	-102.1	-102.0	-101.6	-104.6	-104.5	-104.3
A5L	PCS1900			WCDMA850			WCDMA900		
Channel	L	M	H	L	M	H	L	M	H
TRP(dBm)	25.2	25.6	25.6	18.8	19.2	19.3	19.1	19.2	18.1
TIS(dBm)	-103.8	-103.5	-103.3	-103.6	-103.3	-103.1	-103.0	-102.8	-102.1
A5L	WCDMA1900			WCDMA2100			FDD-B1		
Channel	L	M	H	L	M	H	L	M	H
TRP(dBm)	19.3	19.5	19.6	20.2	20.1	19.8	19.5	19.3	19.3
TIS(dBm)	-105.5	-105.3	-105.0	-104.2	-104.0	-103.8	-91.3	-91.0	-90.8
A5L	FDD-B2			FDD-B3			FDD-B4		
Channel	L	M	H	L	M	H	L	M	H
TRP(dBm)	18.6	19.0	19.2	16.8	17.0	17.5	17.1	17.2	17.2
TIS(dBm)	-92.8	-92.3	-92.1	-93.3	-93.1	-92.8	-91.0	-90.6	-90.5
A5L	FDD-B5			FDD-B8			FDD-B12		
Channel	L	M	H	L	M	H	L	M	H
TRP(dBm)	18.8	18.9	19.0	19.0	19.1	18.6	15.1	15.3	16.1
TIS(dBm)	-91.1	-90.9	-90.6	-90.8	-90.6	-90.3	-89.6	-89.8	-89.9

Match circuit diagram (main signal source)



Model	Mark	4G							
A5L	FDD-B28A			FDD-B28B					
Channel	L	M	H	L	M	H			
TRP(dBm)	14.5	15.5	16.1	16.1	16.4	16.8			
TIS(dBm)	-90.1	-90.2	-90.5	-90.6	-90.5	-90.3			

Antenna passive gain efficiency test

Band	Max Gain	Efficiency
GSM850	-0.13	33%
GSM900	-0.05	34%
DCS1800	0.03	36%
PCS1900	0.06	37%
WCDMA2100	0.52	39%
WCDMA1900	0.06	37%
WCDMA850	-0.13	33%
WCDMA900	-0.05	34%
BAND 1	0.52	39%
BAND 2	0.06	37%
BAND 3	0.03	36%
BAND 4	0.03	36%
BAND 5	-0.13	33%
BAND 8	-0.05	34%
BAND 12	-0.31	27%
BAND 28A	-0.31	27%
BAND 28B	-0.26	28%
BT	0.02	35%

Antenna passive field intensity map

GSM850



GSM900



DCS1800

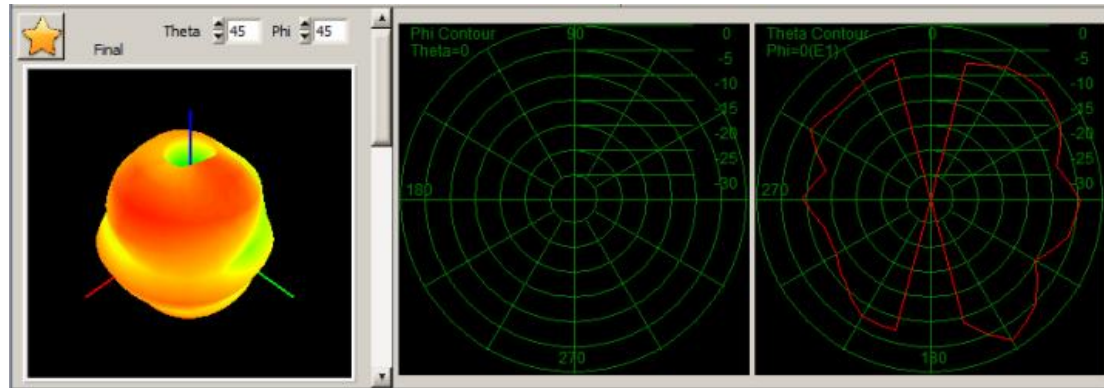


Antenna passive field intensity map

PCS1900



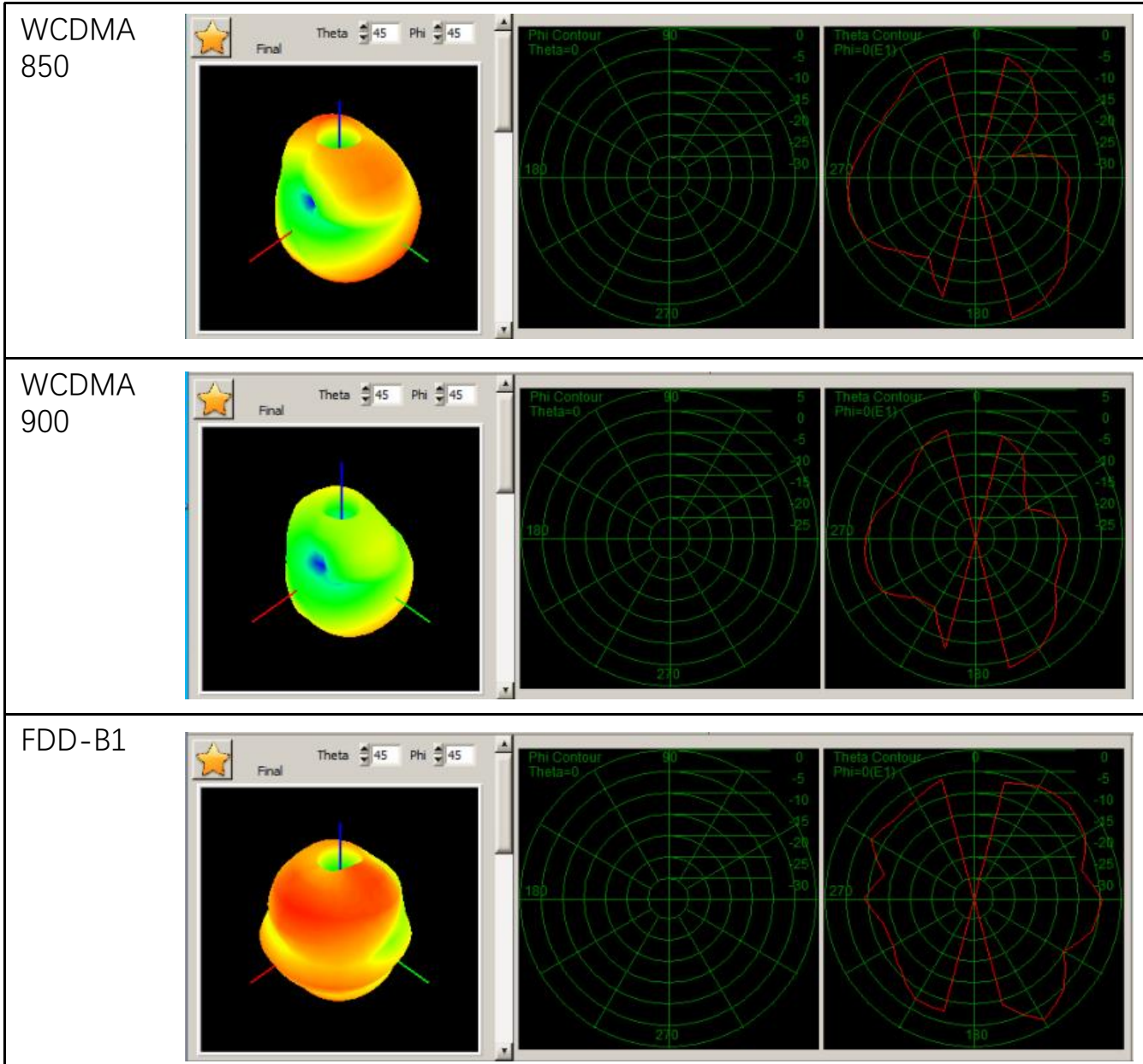
WCDMA 2100



WCDMA 1900



Antenna passive field intensity map



Antenna passive field intensity map

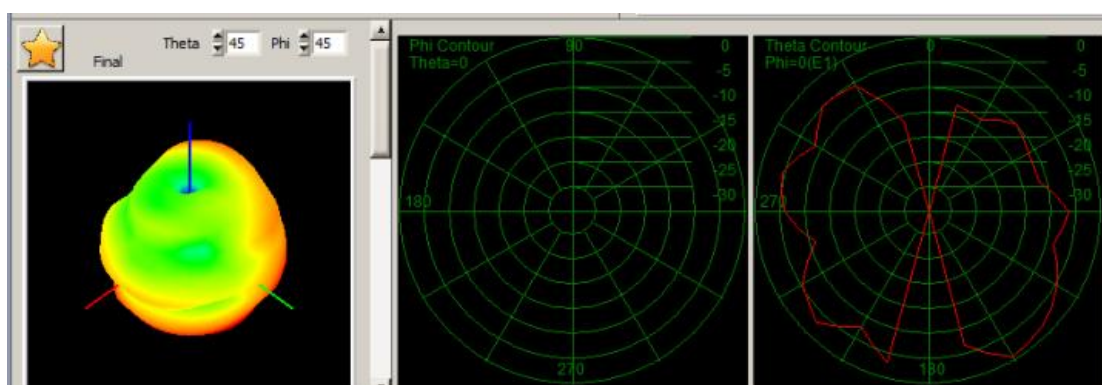
FDD-B2



FDD-B3



FDD-B4



Antenna passive field intensity map

FDD-B5



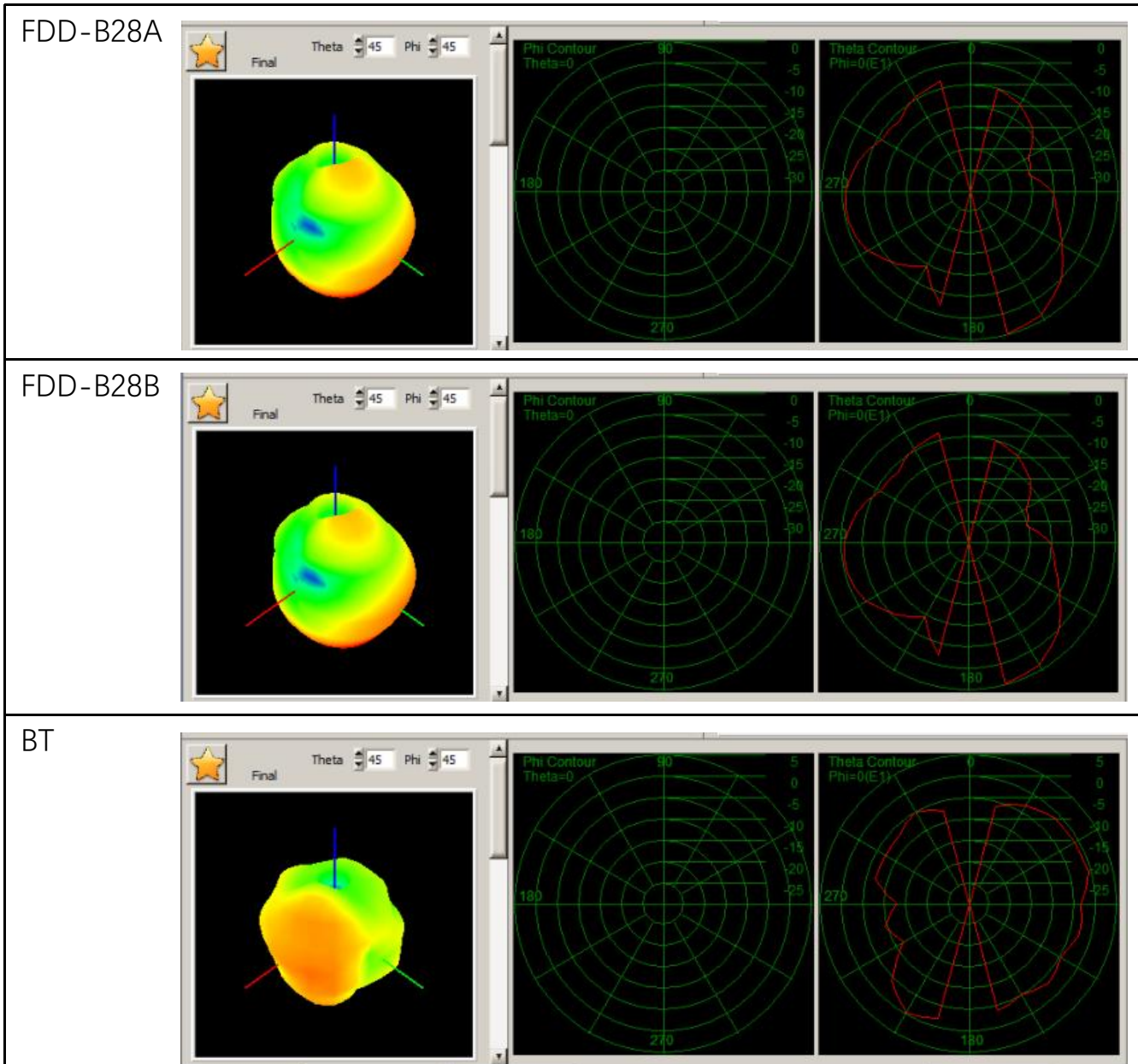
FDD-B8

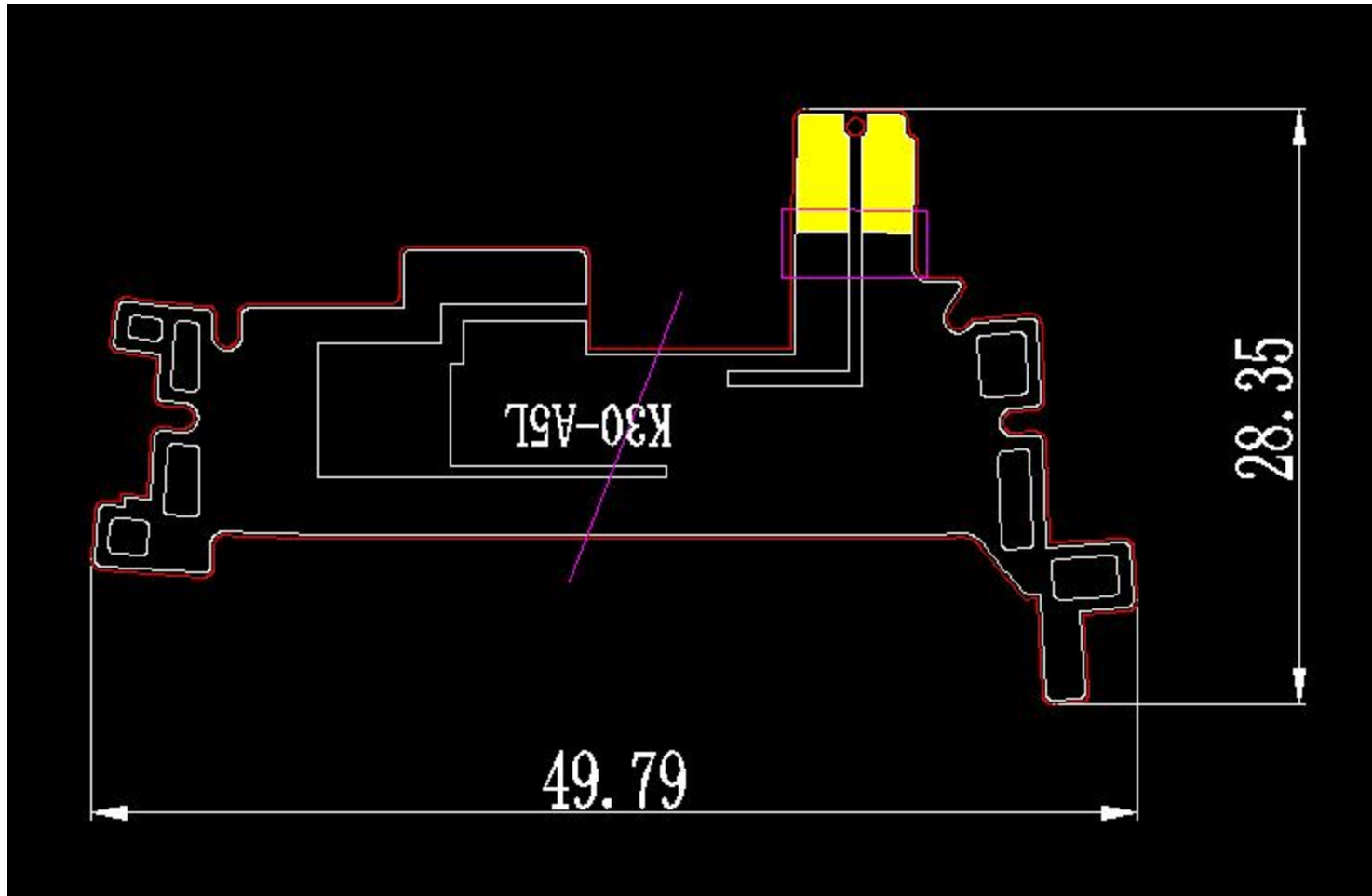


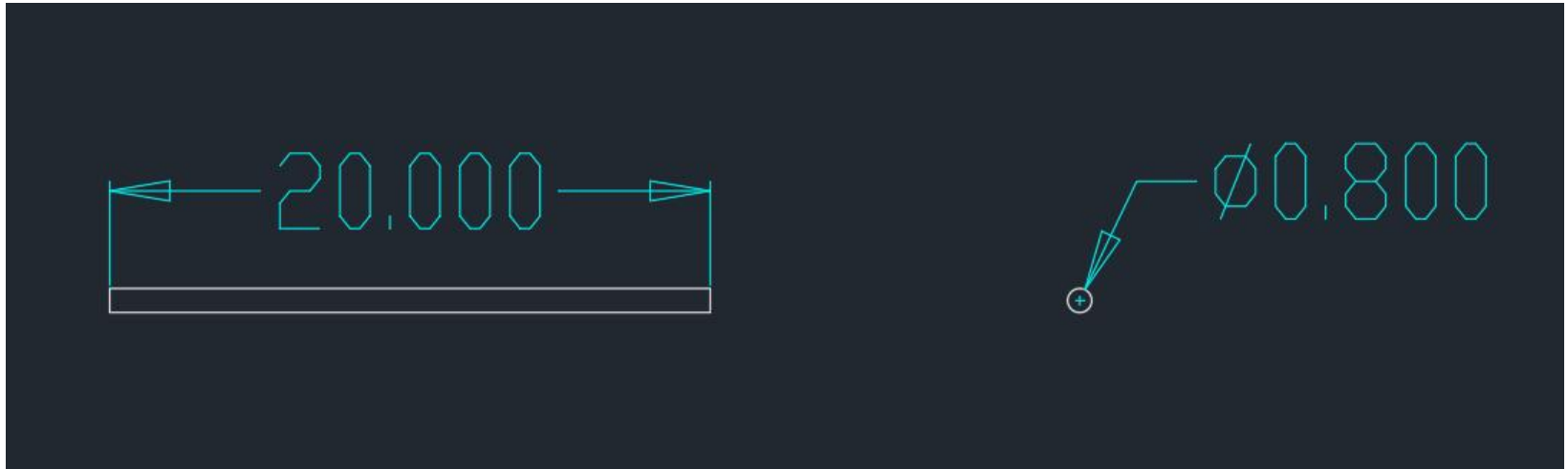
FDD-B12



Antenna passive field intensity map







FM Measured environment	Total search number	With good quality sound Channel No.
Indoor	3	1
Outdoor	18	13



1. As shown in the picture, a large conductive cloth is attached on the upper end of the main board.
Note: The top of the conductive cloth should be extended, and the screen wiring should be screened.
2. Put a small conductive fabric on the bottom to connect with the copper exposed area of the main board.