
U656AA Antenna Data Sheet

Catalogue

- 1. Capability Status**
- 2. Antenna Location**
- 3. Antenna Passive Efficiency**
- 4. Simple Antenna Pattern Plot**
- 5. Antenna return loss**

1. Capability Status

a. Main software and hardware facilities for antenna Equipment introduction

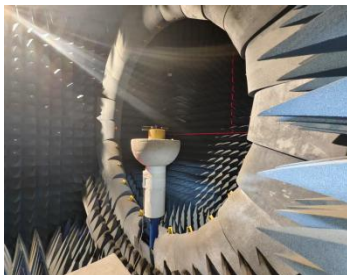
Suzhou: Satimo:1 Bluetest:1 GTS1800:1 GTS2800:1

ETS:1 NFC:Micropross:1 SAR DASY 5:1

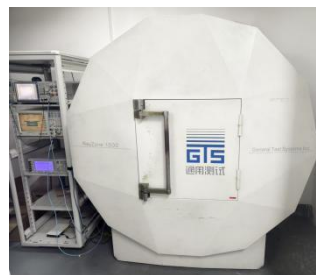
Shenzhen: Satimo: 1 Bluetest:1

Xian: GTS2800:1 Satimo: 3

Chongqing: GTS2800:1



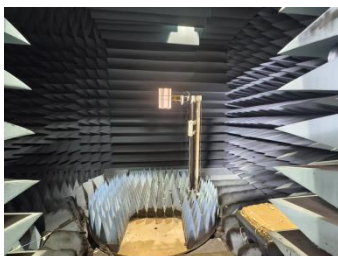
Satimo SG24



GTS1800



GTS2800



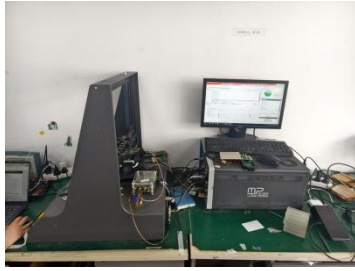
ETS



Bluetest



DASY4/5



Micropross

b. Full category testing capability

Support system

GSM/WCDMA/EVDO/TDSCDMA/TDD/FDD/5G-SA/5G-NSA/eMTC/NB-
iot/GPS/WiFi/BT/CA/ENDC

Common equipment

Keysight E7515E

Anritsu MT8820C

Agilent E5071C

Rohde&Schwarz CMW500

DASY4/5 SAR



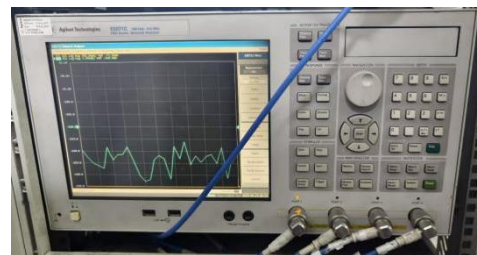
Keysight E7515E



Anritsu MT8820C

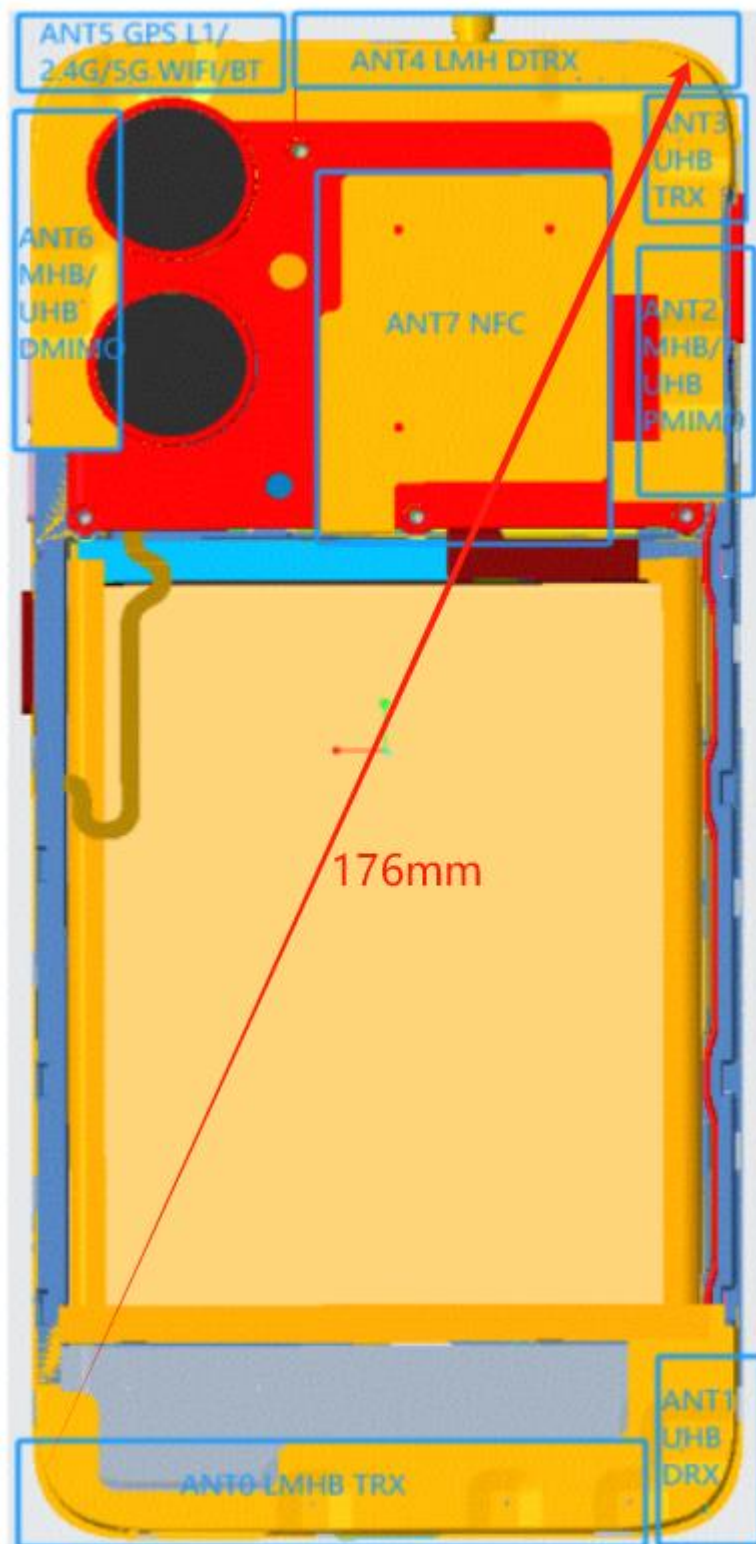


Rohde&Schwarz CMW500



Agilent E5071C

2. **Antenna Location**



ANT0

TX0: WCDMA B1/2/4/5/8

LTE B2/3/4/5/7/12/14/20/30/66 NR N2/5/30/66

PRX: WCDMA B1/2/4/5/8

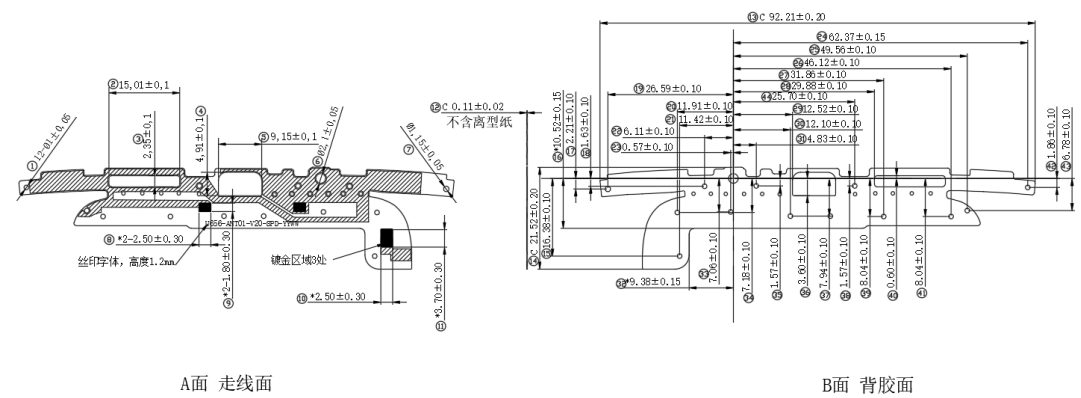
LTE B2/3/4/5/7/12/14/20/29/30/66

NR N2/5/30/66

ANT1

DRX: N77

SRS TX :N77



ANT2

PMIMO: LTE B2/4/30/66 NR N2/30/66/77

SRS TX :N77

ANT3

TX0: N77

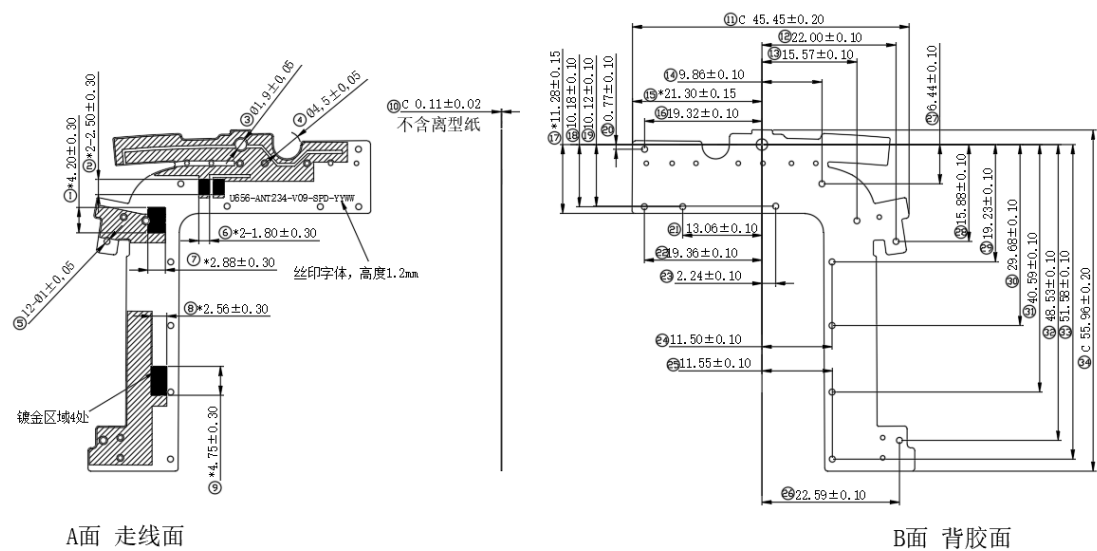
PRX: N77

ANT4

DRX: WCDMA B1/2/4/5

TX1: LTE B2/12/30/66 NR N2/30/66

DRX: LTE B2/3/4/5/7/12/14/20/29/30/66 NR N2/5/30/66



ANT0/1 Model:U656AA-ANT01

ANT2/3/4 Model:U656AA-ANT234

ANT0/1/2/3/4 Vendor

Name: Huizhou Speed Wireless Technology Co.,Ltd.

URL:www.speed-hz.com

Tel: 0752-2836333

Fax:0752-2836333

Address: No.SX-01-02Shangxia Section,Hi-tech District of East-river,Huizhou,Guangdong
Province P.R,China

ANT5:

WiFi 2.4G&5G

BT

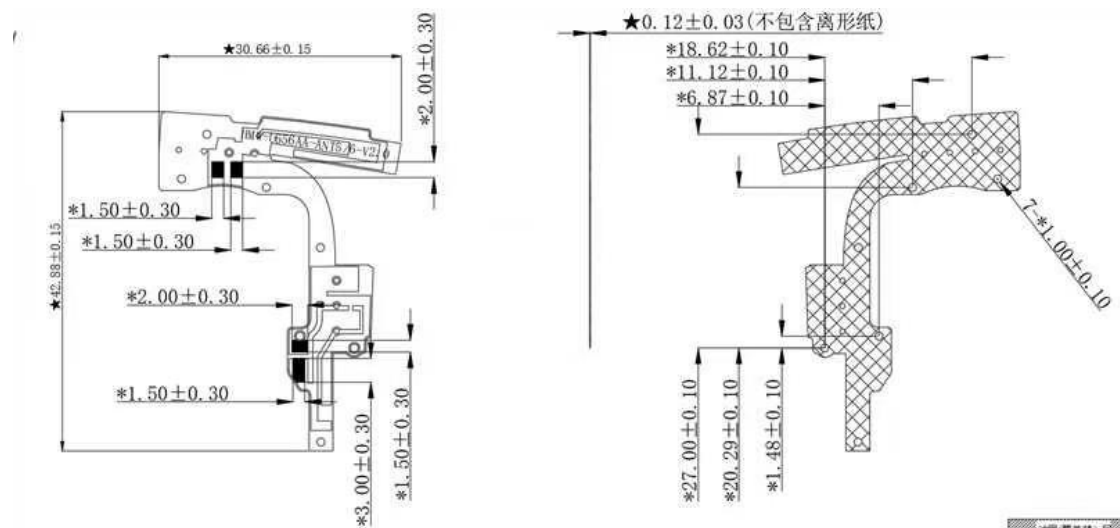
GPS L1

ANT6

DMIMO: LTE B2/4/30/66

NR N2/30/66/77

SRS TX :N77



ANT5/6 Model:U656AA-ANT5/6

ANT5/6 Vendor

Name: Shenzhen HamyWe Technology Co., Ltd

URL:www.szuhot.com

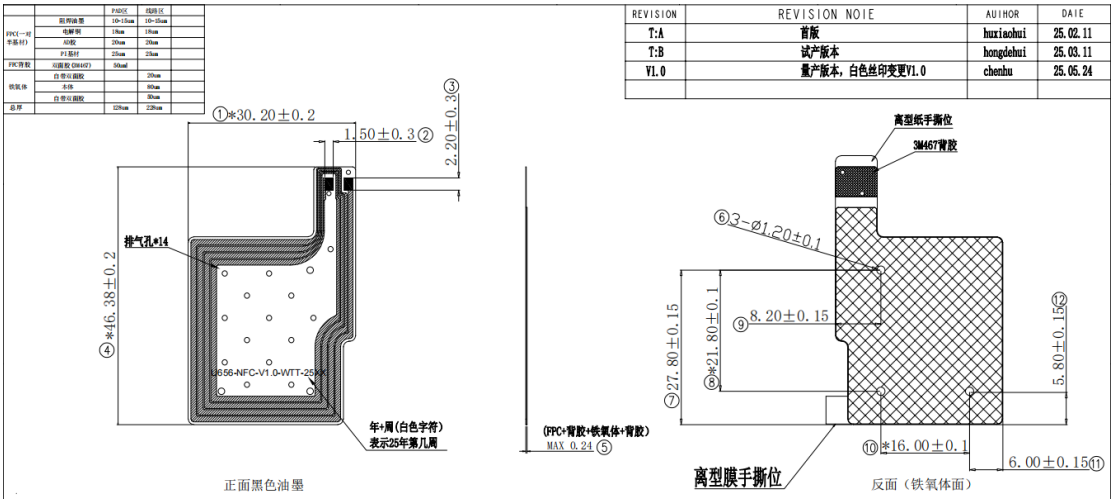
Tel: 0755-36818170

Fax: 0755-36818170

Address: 4th Floor, Building D, Aimet Electric Appliances (Shenzhen), No. 4 Huangfengling Industrial Avenue, Shiyao Street, Bao'an District, Shenzhen City, Guangdong Province

ANT7:

NFC



ANT7 Vendor

Name:Welletronics Communication Technology Co.,Ltd

Tel: 0755-29076623

Address: Building 8, Tongfucun Industrial Zone, Xinshi Community, Dalang Street, Longhua

District, Shenzhen

Based on the model difference letter,U656AA was selected for testing.

3. **Antenna Passive Efficiency**

Ant0		
	Average Gain (dB)	Maximum Gain (dBi)
WCDMA B1	-5.8	-1.8
WCDMA B2	-5.2	-2.5
WCDMA B4	-5.7	-2.2
WCDMA B5	-7.0	-3.5
WCDMA B8	-6.7	-2.8
LTE B2	-5.2	-2.5
LTE B3	-5.7	-2.2
LTE B4	-5.7	-2.2
LTE B5	-7.0	-3.5
LTE B7	-7.0	-3.7
LTE B12	-5.2	-2.2
LTE B14	-6.2	-3.0
LTE B20	-6.9	-3.3
LTE B29	-5.2	-2.2
LTE B30	-5.8	-1.0
LTE B66	-5.7	-2.2
N2	-5.2	-2.5
N5	-7.0	-3.5
N30	-5.8	-1.0
N66	-5.7	-2.2

Ant1

N77	-7.2	-0.2
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Ant2

LTE B2	-10.1	-7.5
LTE B4	-10.5	-8.1
LTE B30	-11.7	-7.0
LTE B66	-10.5	-8.1
N2	-10.1	-7.5
N30	-11.7	-7.0
N66	-10.5	-8.1
N77	-7.2	-1.8

Ant3

N77	-5.4	0.6
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Ant4

WCDMA B1	-5.7	-3.3
WCDMA B2	-6.1	-3.7
WCDMA B4	-7.0	-4.5
WCDMA B5	-10.2	-6.7
LTE B2	-6.1	-3.7

LTE B3	-7.0	-4.5
LTE B4	-7.0	-4.5
LTE B5	-10.2	-6.7
LTE B7	-8.1	-1.0
LTE B12	-11.7	-8.8
LTE B14	-10.9	-7.9
LTE B20	-10.8	-7.3
LTE B29	-11.7	-8.8
LTE B30	-4.1	0.0
LTE B66	-7.0	-4.5
N2	-6.1	-3.7
N5	-10.2	-6.7
N30	-4.1	0.0
N66	-7.0	-4.5
TX1		
LTE B2	-6.1	-3.7
LTE B12	-11.7	-8.8
LTE B30	-4.1	0.0
LTE B66	-7.0	-4.5
N2	-6.1	-3.7
N30	-4.1	0.0
N66	-7.0	-4.5

Ant5

GPS	-4.7	0.8
WIFI 2.4G	-5.7	0.68
WIFI 5G	-5.6	-0.5
BT	-5.7	0.68

Ant6

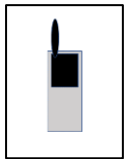
LTE B2	-9.0	-4.6
LTE B4	-6.8	-1.9
LTE B30	-10.3	-4.6
LTE B66	-6.8	-1.9
N2	-9.0	-4.6
N30	-10.3	-4.6
N66	-6.8	-1.9
N77	-6.8	-1.6

ANT7 NFC

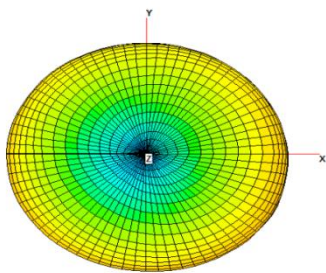
The devices does not support the test of NFC gain.In addition,all measurements were performed radiated and therefore additional antenna gain documentation is not required.

4.Simple Antenna Pattern Plot

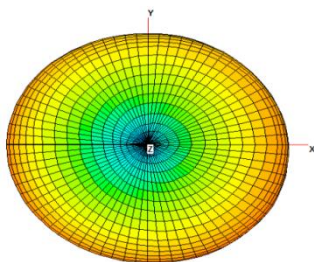
a. Antenna0



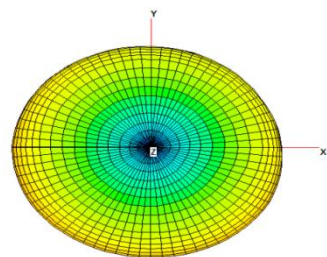
B2/3/4/7/66/5/20



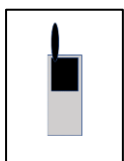
B14



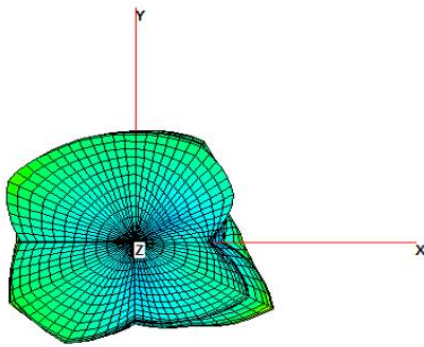
B12/29/30



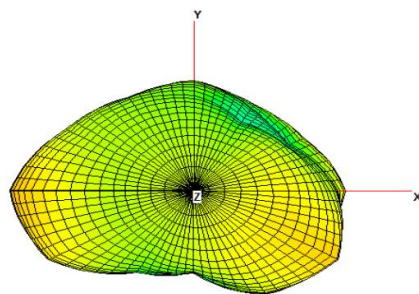
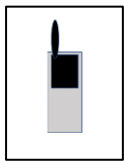
b. Antenna1



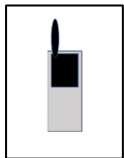
N77

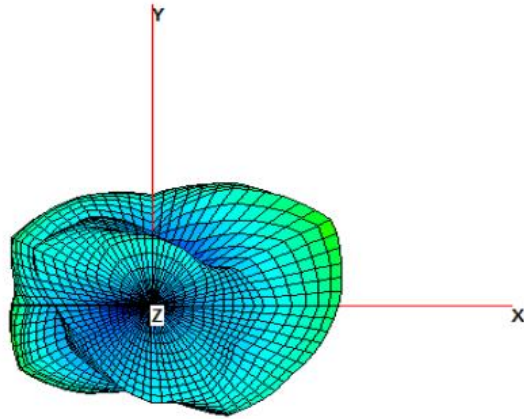


C.Antenna2

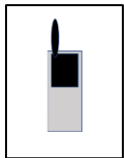


D.Antenna3



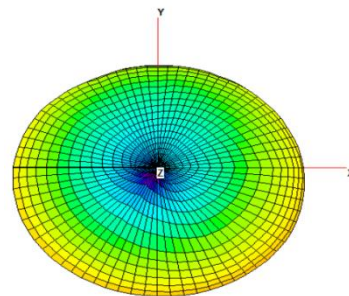
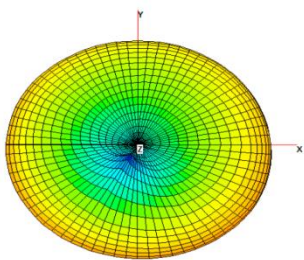


E.Antenna4



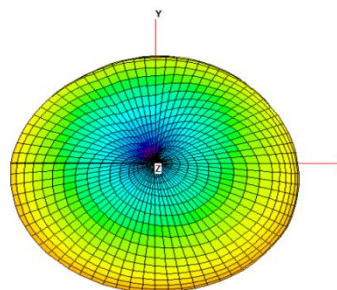
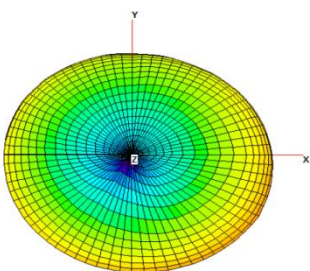
B2/3/4/7/66/5/20

B14

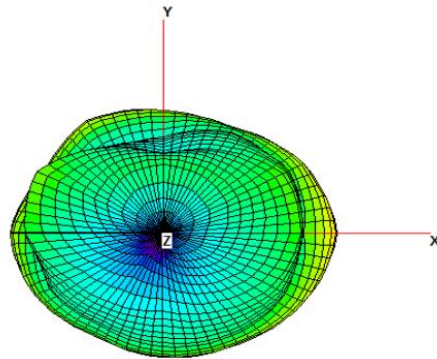
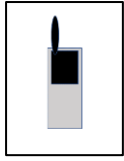


B20

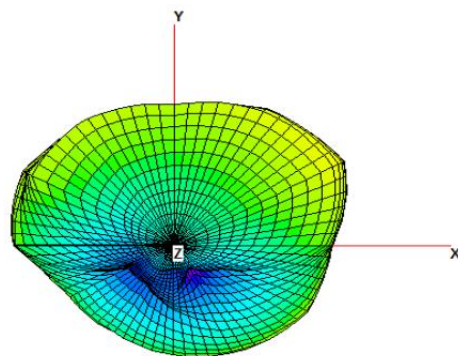
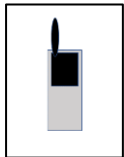
B12/29



F.Antenna5

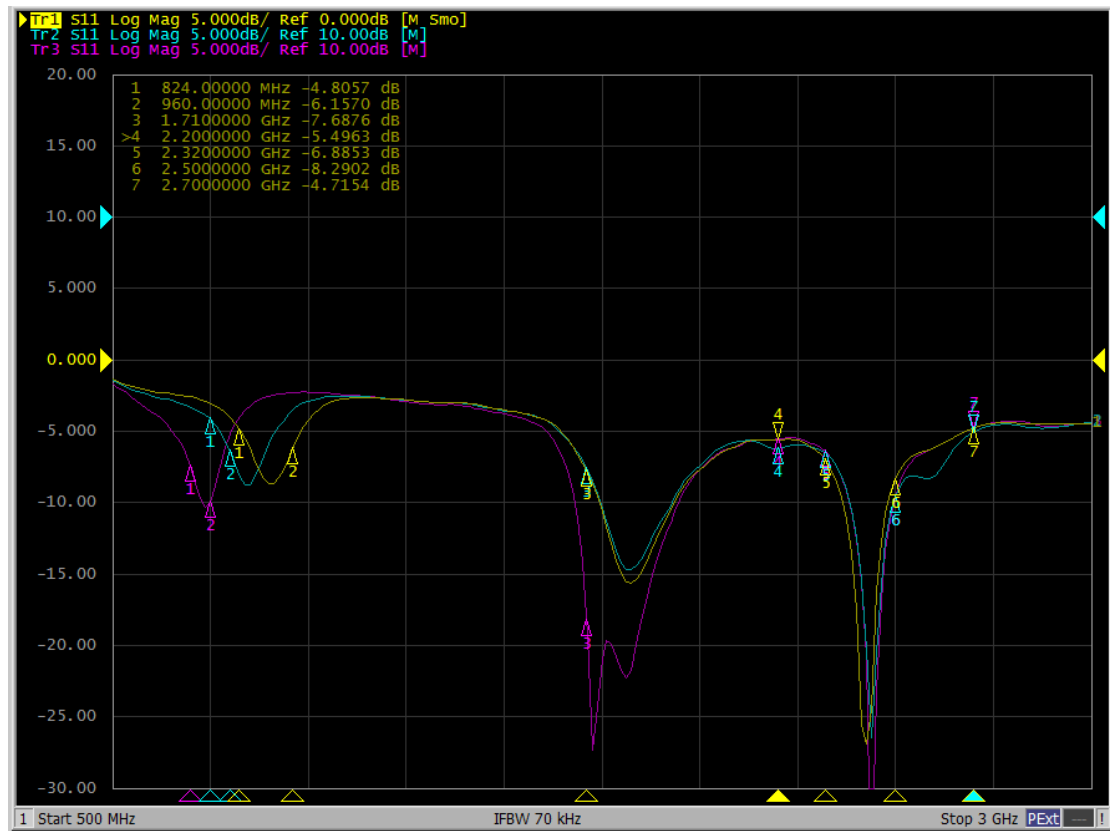


G.Antenna6

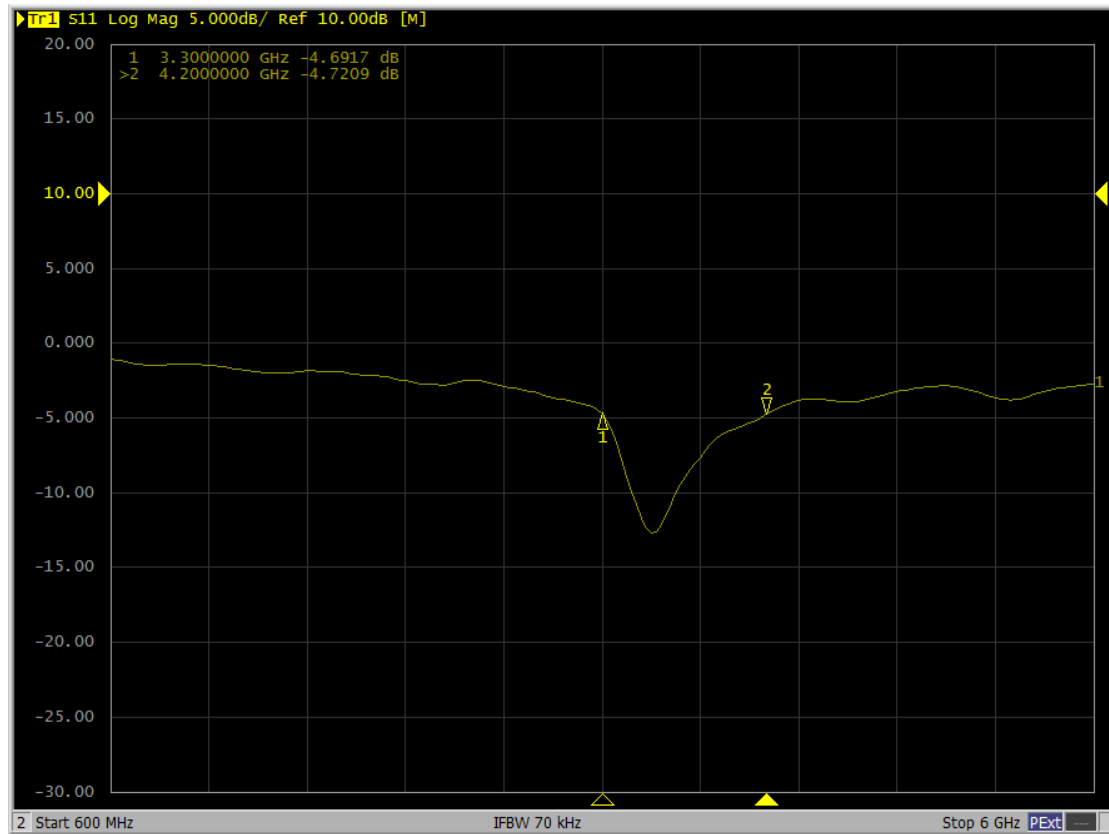


4. Antenna return loss

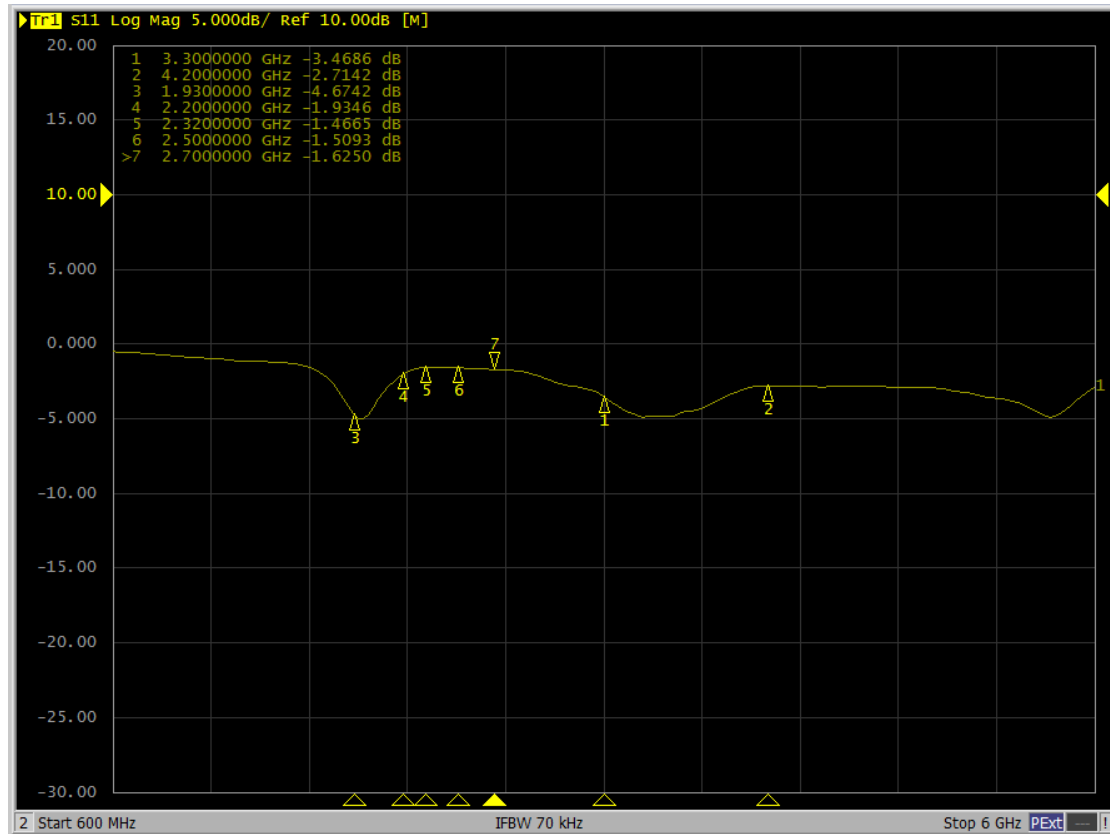
Antenna0



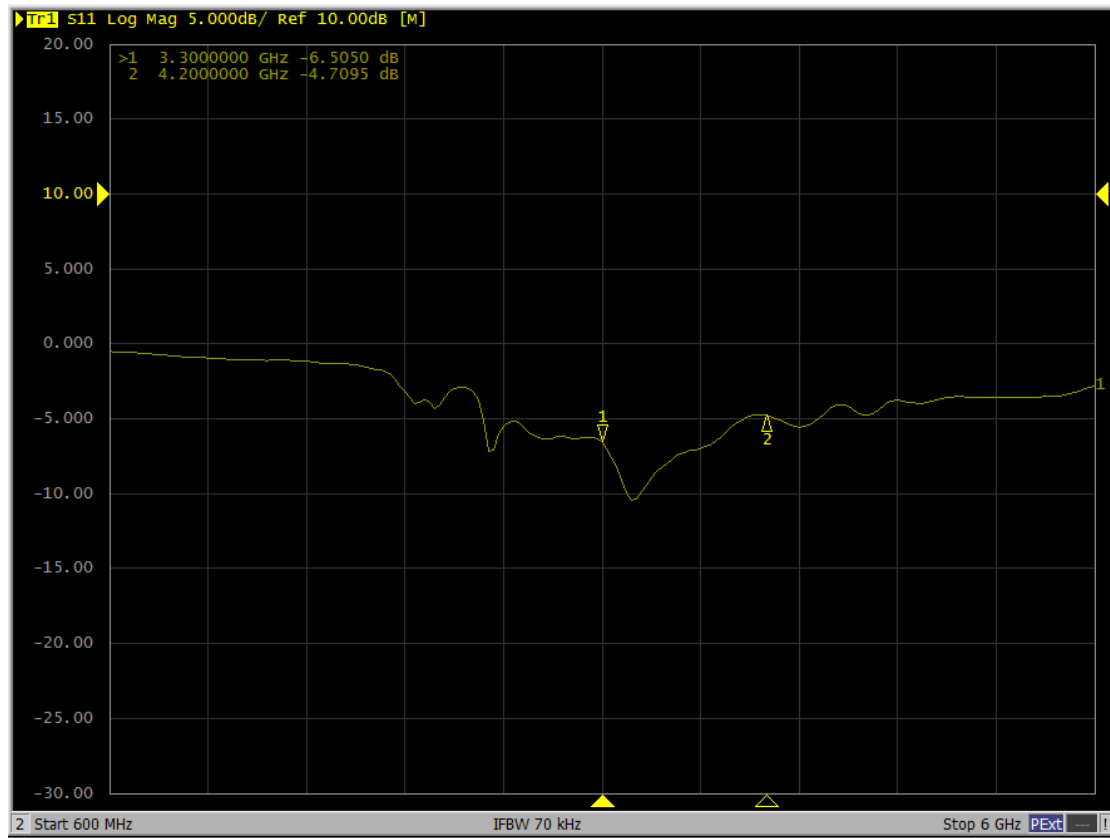
Antenna1



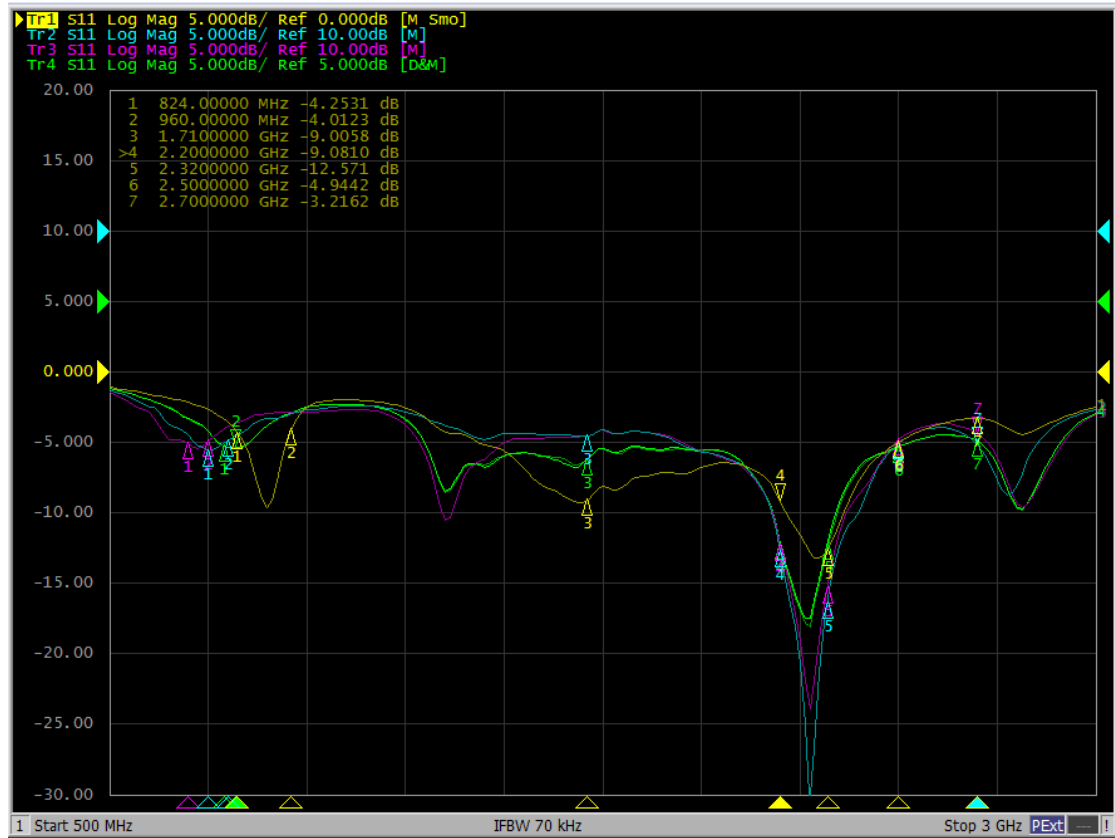
Antenna2



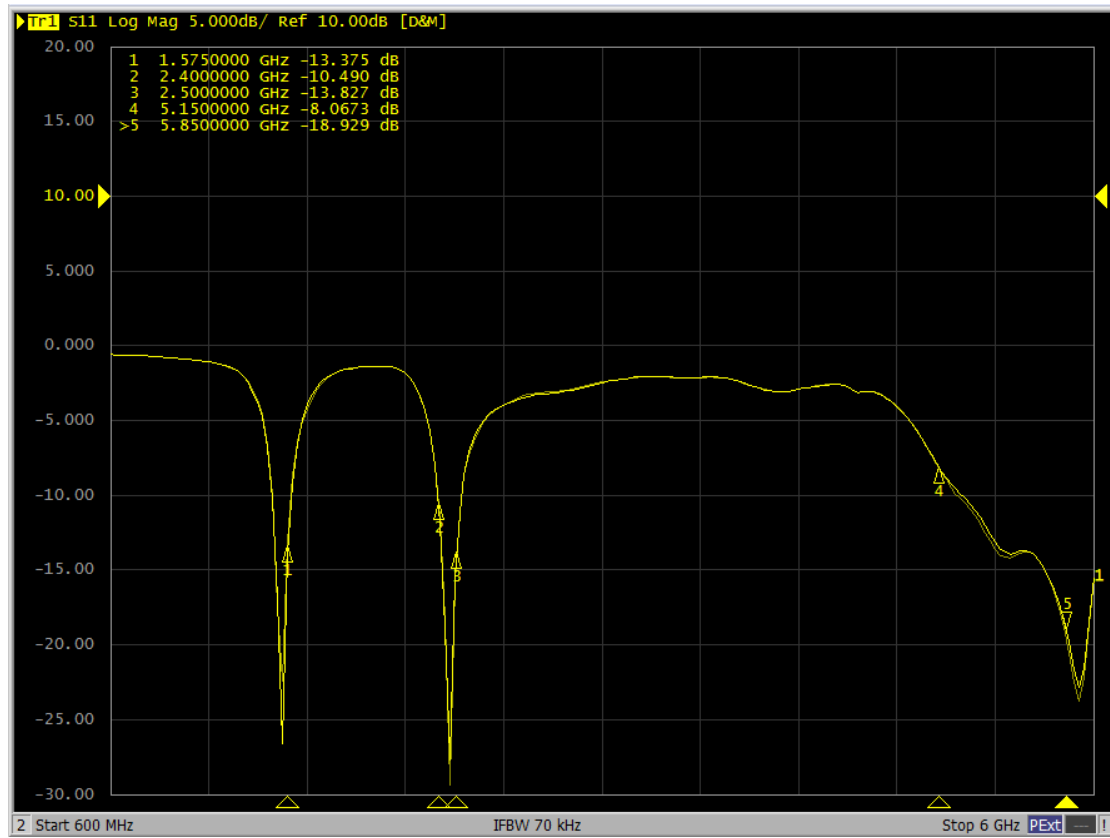
Antenna3



Antenna4



Antenna5



Antenna6

