
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 WTT

Equipment introduction

Shanghai: Satimo:2 GTS1800:3 NFC Micropross:1

SAR DASY 5:1

Shenzhen: GTS1800:1 GTS2800:1 NFC Micropross:1

Xian: GTS2800:1

Chongqing: GTS1800:2 GTS2800:1



Satimo SG24



GTS2800



DASY4/5 NFC

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

SP9500

Anritsu MT8820C

E5071C

CMW500

DASY4/5 SAR



StarPointSP9500

Anritsu MT8820C

2. **Antenna Location**

ANT0: 3G:WCDMA B1/2/4/5/8 TRX

4G:LTE B2/3/4/5/7/12/14/20/29/66 TRX, 5G:N2/5/66 TRX

ANT1: 4G:LTE B2/4/66 DRX-MIMO

5G:N2/66/77 DRX-MIMO

ANT2: 5G NR: N77 DRX

ANT3: 3G:WCDMA B1/2/4/5/8 DRX

4G:LTE B2/3/4/5/7/12/14/20/29/66 DRX

5G:N2/5/66 DRX ENDC N2/66 TX

ANT4: 2.4G&5GWIFI TRX,GPS RX

ANT5: 5G NR: N77 TRX

ANT6: 4G:LTE B2/4/66 PRX-MIMO

5G:N2/66/77 PRX-MIMO

Antenna pattern is shown in the attachment

Antenna Vendor

Welletronics Communication technology Co.,Ltd.

Website:<http://www.wtt-china.cn>

Tel: 86-0755-29076623 29076625

Fax: 86-0755-21633856

Address: 1~3F, No.8, Tongfu Estate, Xinshi Community, Dalang Street, Longhua District, Shenzhen, China

Antenna model number: WTT- U205AA

3. **Antenna Passive Efficiency**

A. Antenna0

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
WCDMA	Band 1	-5.1dBi	-8.5dBi	-0.1dBi	-3.4dBi
	Band 2	-4.1dBi	-5.7dBi	0.1dBi	-0.4dBi
	Band 4	-2.8dBi	-8.9dBi	1.7dBi	-4.1dBi
	Band 5	-6.2dBi	-5.3dBi	-1.5dBi	-0.5dBi
	Band 8	-6.3dBi	-9.9dBi	-1.0dBi	-4.8dBi
LTE	Band 2	-4.1dBi	-5.7dBi	0.1dBi	-0.4dBi
	Band 3	-2.8dBi	-3.0dBi	1.7dBi	0.7dBi
	Band 4	-2.8dBi	-8.9dBi	1.7dBi	-4.1dBi
	Band 5	-6.2dBi	-5.3dBi	-1.5dBi	-0.5dBi
	Band 7	-8.5dBi	-5.7dBi	-3.5dBi	0.3dBi

	Band 12	-5.4dBi	-5.3dBi	-1.7dBi	-0.9dBi
	Band 14	-5.6dBi	-5.0dBi	-1.6dBi	-0.5dBi
	Band 20	-6.2dBi	-7.2dBi	-1.4dBi	-3.2dBi
	Band 29	/	-5.1dBi	/	-1.1dBi
	Band 66	-3.0dBi	-9.0dBi	1.5dBi	-4.3dBi
NR	Band 2	-4.1dBi	-5.7dBi	0.1dBi	-0.4dBi
	Band 5	-6.2dBi	-5.3dBi	-1.5dBi	-0.5dBi
	Band 66	-3.0dBi	-9.0dBi	1.5dBi	-4.3dBi

B.Antenna1

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
LTE	Band 2	/	-7.1dBi	/	-0.1dBi
	Band 4	/	-6.6dBi	/	-2.0dBi
	Band 66	/	-6.4dBi	/	-1.9dBi
NR	Band 2	/	-7.1dBi	/	-0.1dBi
	Band 66	/	-6.4dBi	/	-1.9dBi
	Band 77	/	-5.5dBi	/	-1.2dBi

C.Antenna2

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
NR	Band 77	/	-4.9dBi	/	-0.8dBi

D.Antenna3

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
WCDMA	Band 1	/	-4.4dBi	/	1.5dBi
	Band 2	/	-4.1dBi	/	0.9dBi
	Band 4	/	-4.3dBi	/	1.6dBi
	Band 5	/	-10.8dBi	/	-8.2dBi
	Band 8	/	-14.8dBi	/	-11.9dBi
LTE	Band 2	/	-4.1dBi	/	0.9dBi
	Band 3	/	-3.1dBi	/	2.3dBi
	Band 4	/	-4.3dBi	/	1.6dBi
	Band 5	/	-10.8dBi	/	-8.2dBi
	Band 7	/	-4.7dBi	/	0.2dBi
	Band 12	-8.1dBi	-7.8dBi	-4.8dBi	-4.1dBi
	Band 14	/	-7.5dBi	/	-4.2dBi

	Band 20	/	-7.9dBi	/	-3.9dBi
	Band 29	/	-7.8dBi	/	-3.7dBi
	Band 66	/	-4.8dBi	/	-0.9dBi
NR	Band 2	-3.1dBi	-4.1dBi	1.2dBi	0.9dBi
	Band 5	/	-10.8dBi	/	-8.2dBi
	Band 66	-4.0dBi	-4.8dBi	1.1dBi	-0.9dBi

E. Antenna4

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
GPS	L1	/	-2.9dBi	/	0.8dBi
WIFI	2.4G	-2.1dBi	-2.1dBi	2.3dBi	2.3dBi
	5G	-2.3dBi	-2.3dBi	2.8dBi	2.8dBi

F. Antenna5

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
NR	Band 77	-2.9dBi	-2.9dBi	1.9dBi	1.9dBi

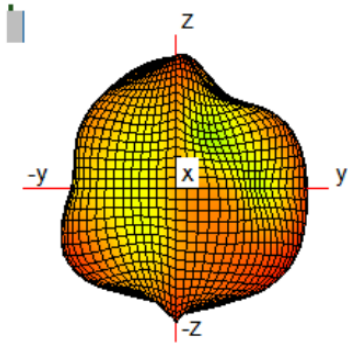
G. Antenna6

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
LTE	Band 2	/	-3.5dBi	/	1.7dBi
	Band 4	/	-3.1dBi	/	0.8dBi
	Band 66	/	-3.0dBi	/	0.9dBi
NR	Band 2	/	-3.5dBi	/	1.7dBi
	Band 66	/	-3.0dBi	/	0.9dBi
	Band 77	/	-6.7dBi	/	1.2dBi

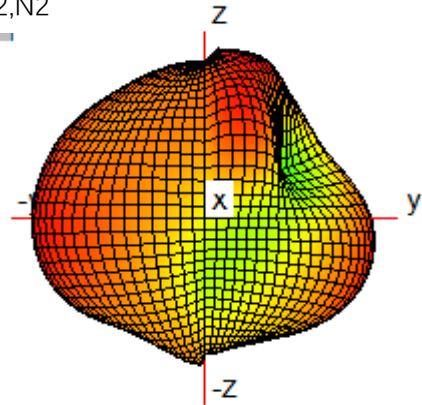
4.Simple Antenna Pattern Plot

Antenna 0

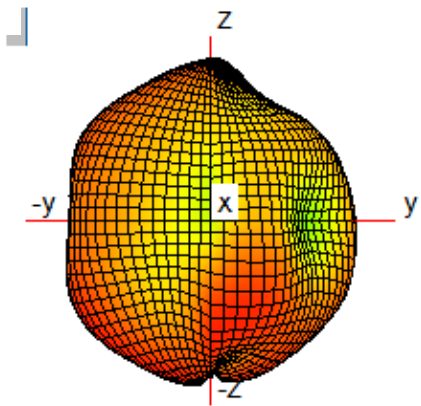
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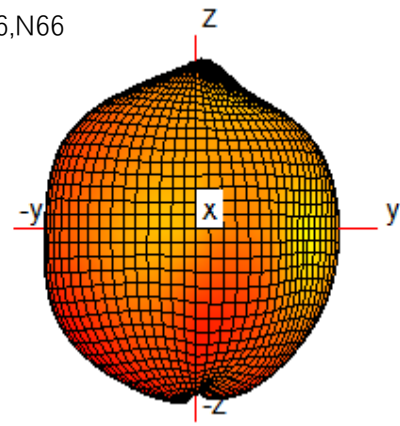
B2,N2



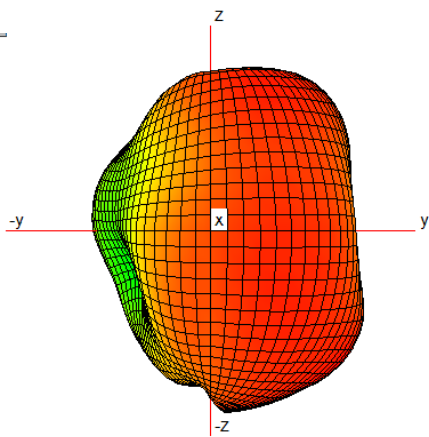
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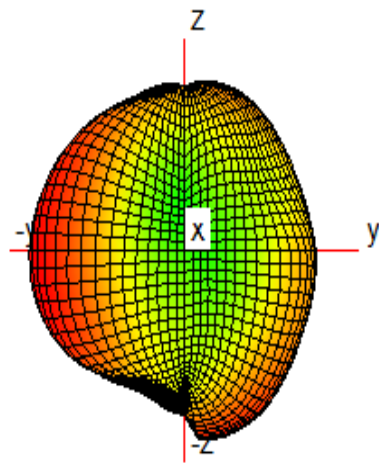
B4/66,N66



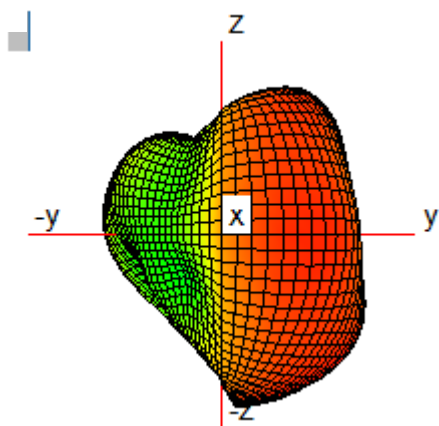
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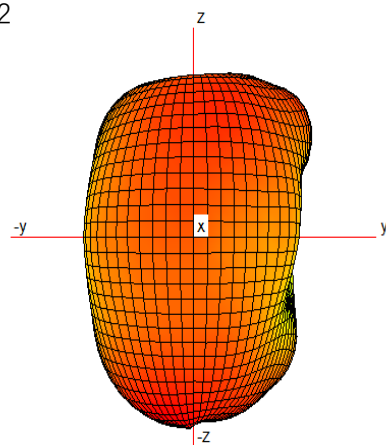
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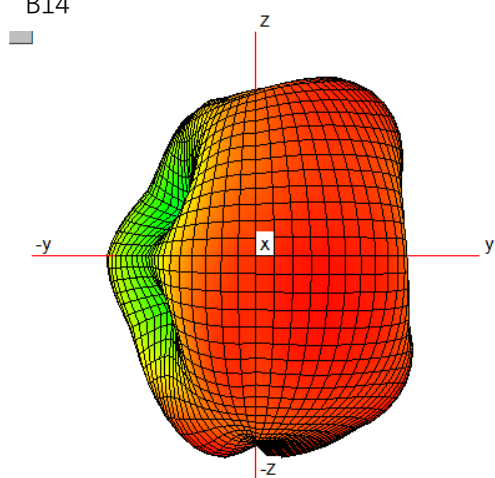
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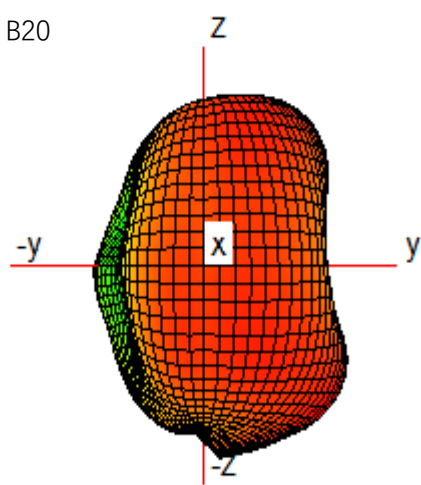
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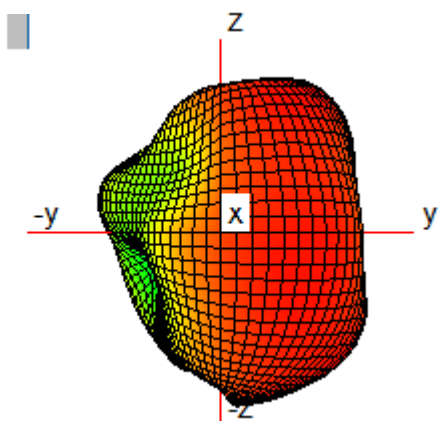
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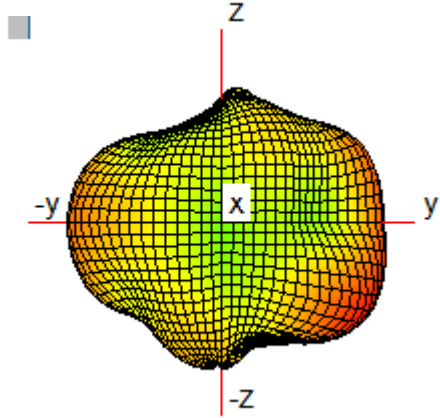


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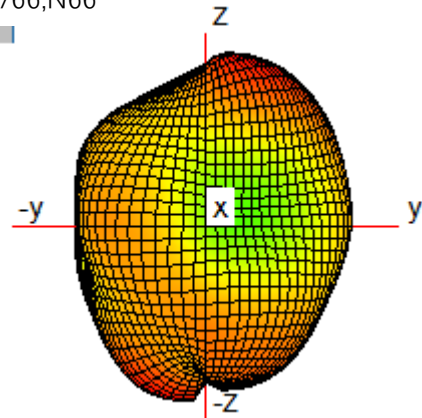


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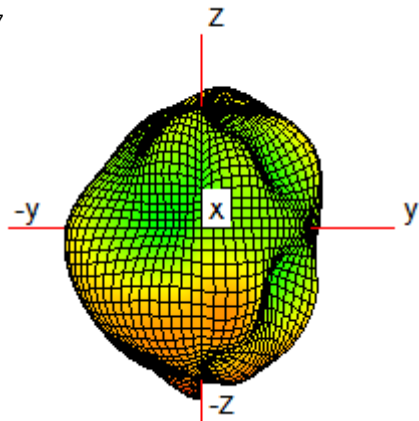
B2/N2



B4/66,N66

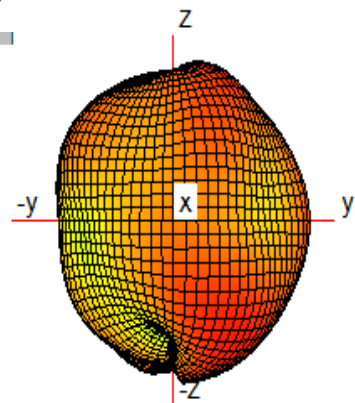


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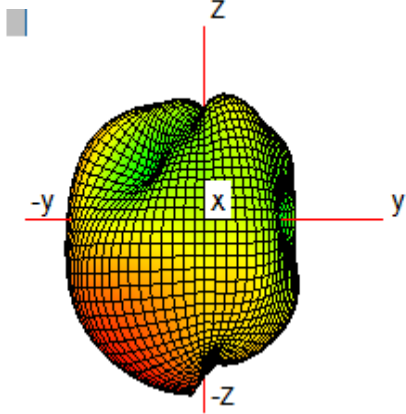
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N77

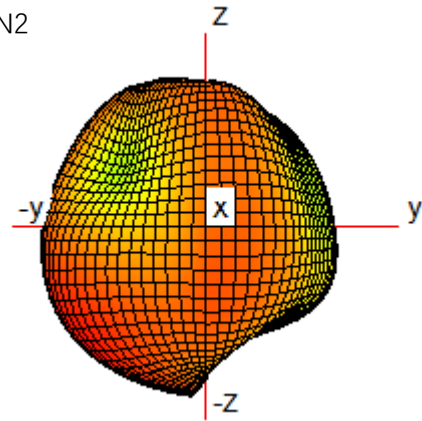


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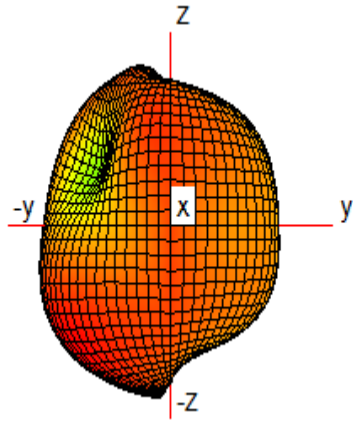
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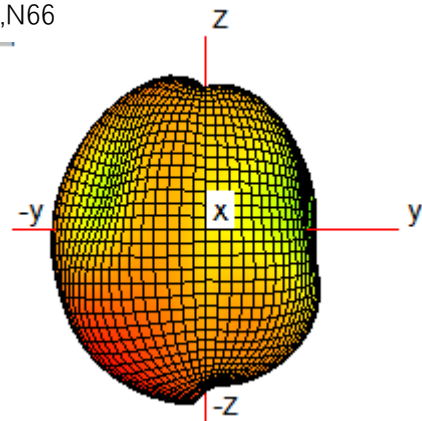
B2,N2



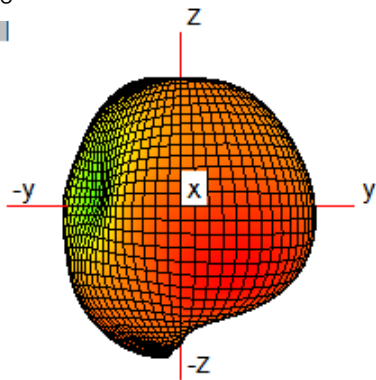
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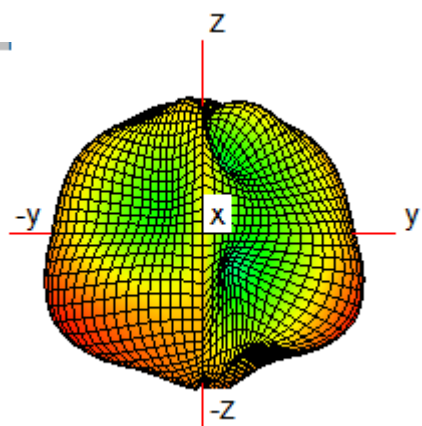
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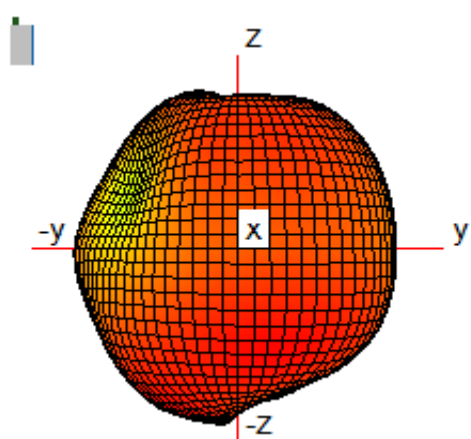
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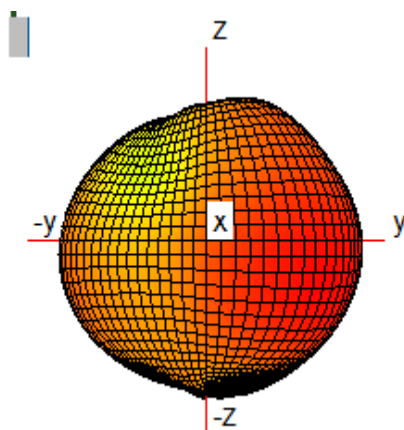
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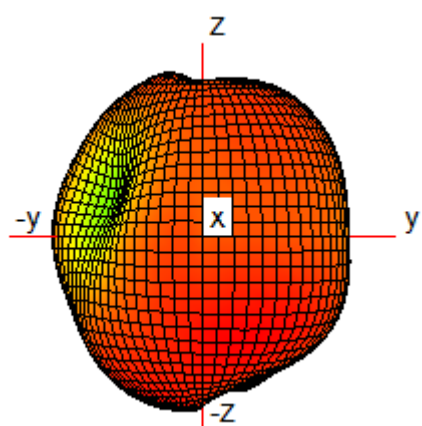
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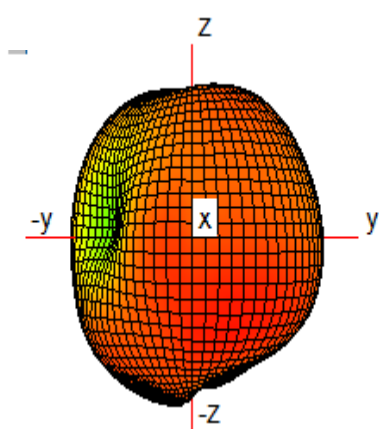
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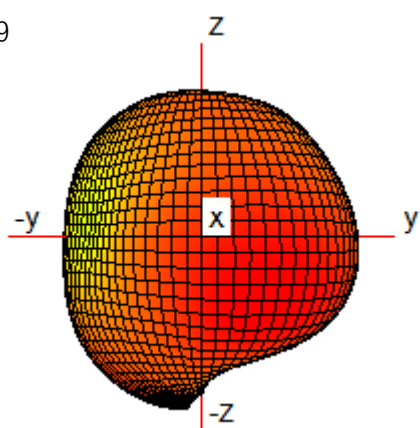
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B20

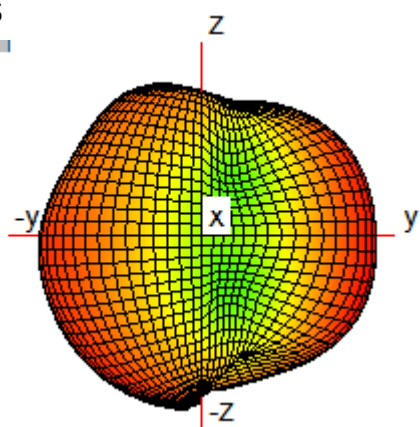


B29

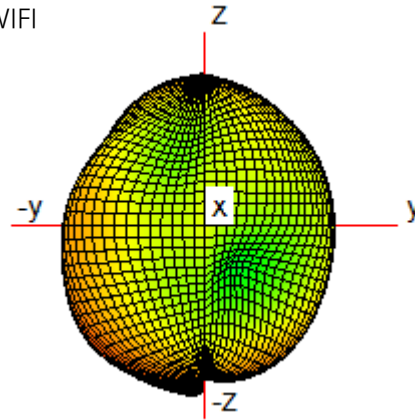


Antenna 4

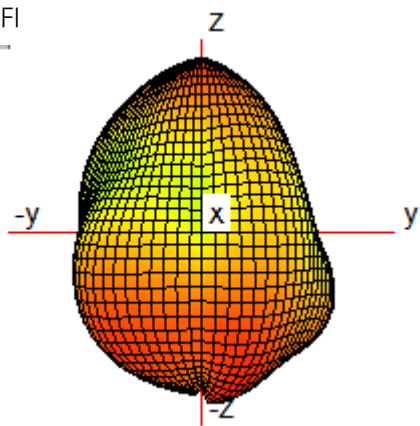
GPS
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2.4G WIFI

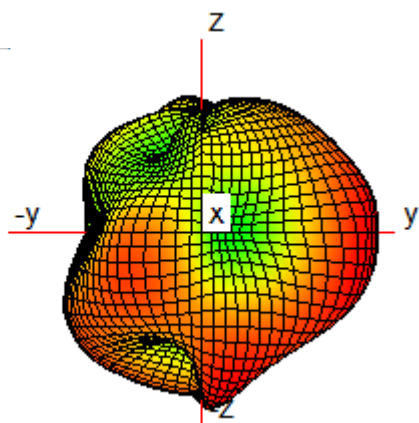


5G WIFI
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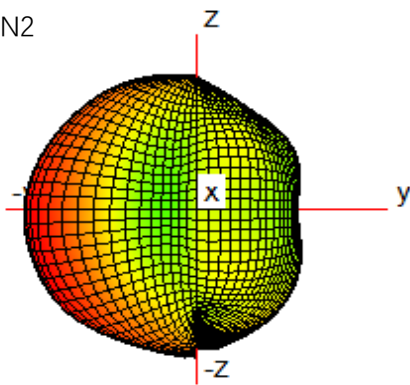
Antenna 5

N77
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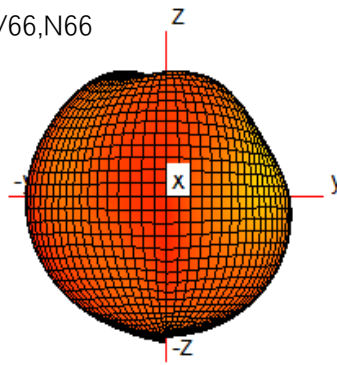


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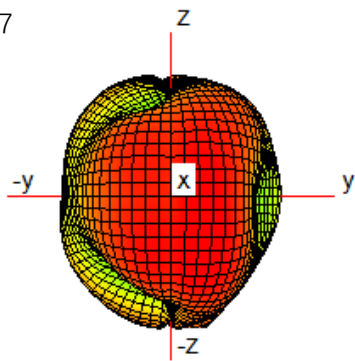
B2,N2



B4/66,N66

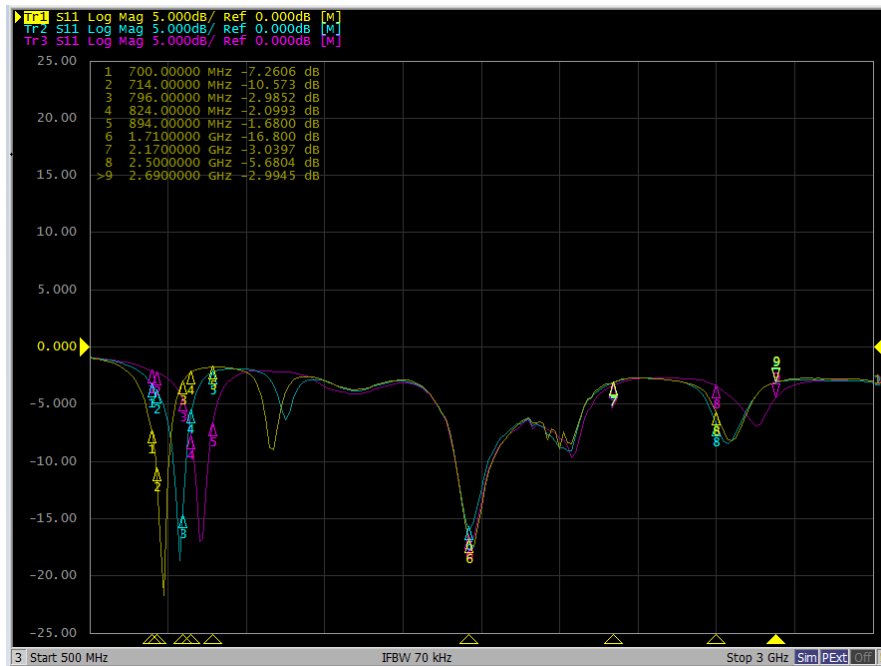


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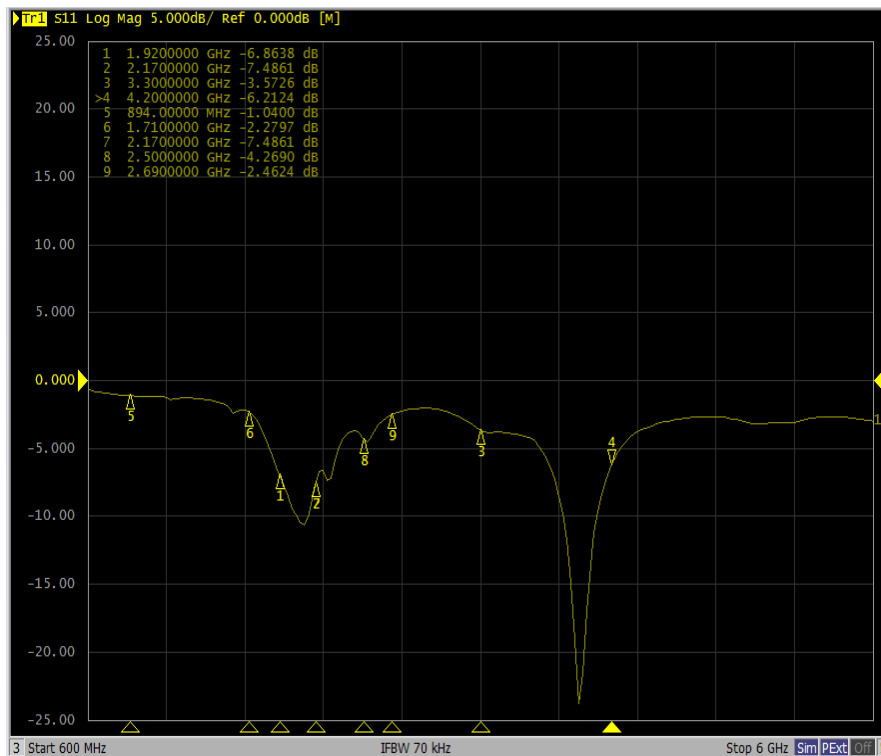


4. Antenna return loss

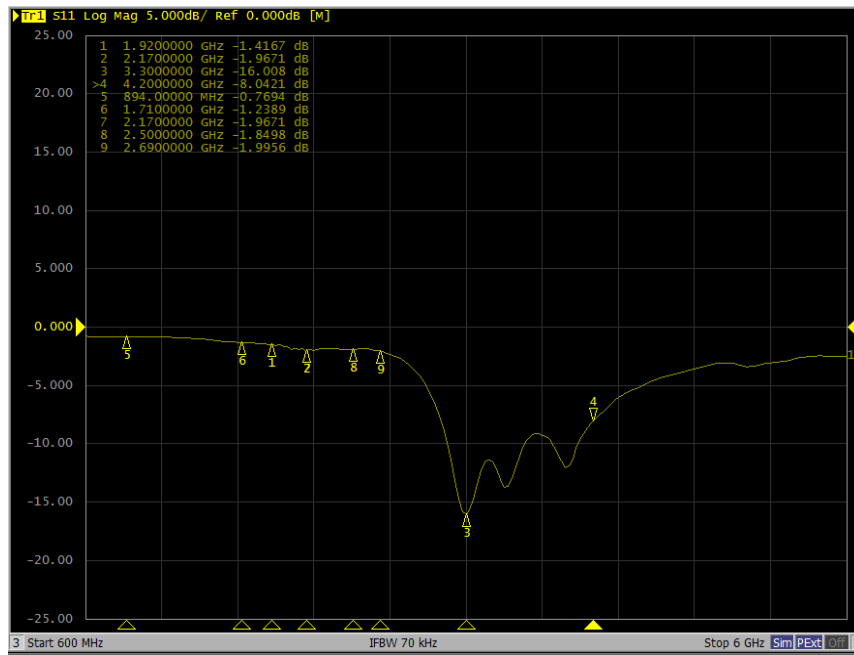
Antenna 0



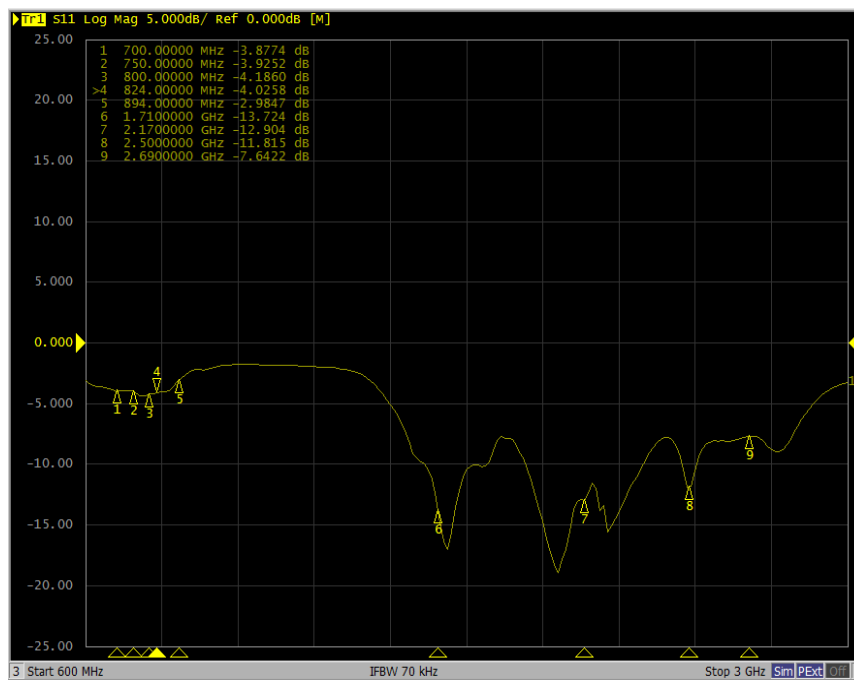
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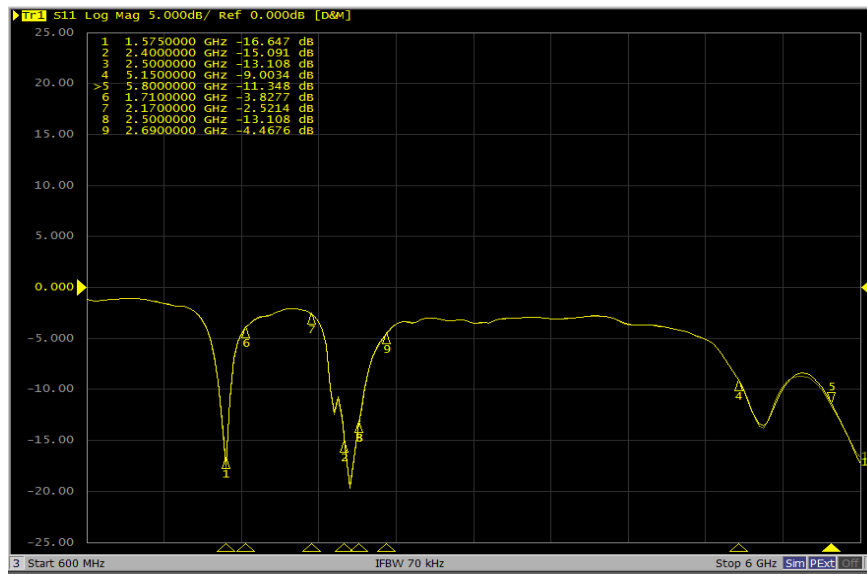
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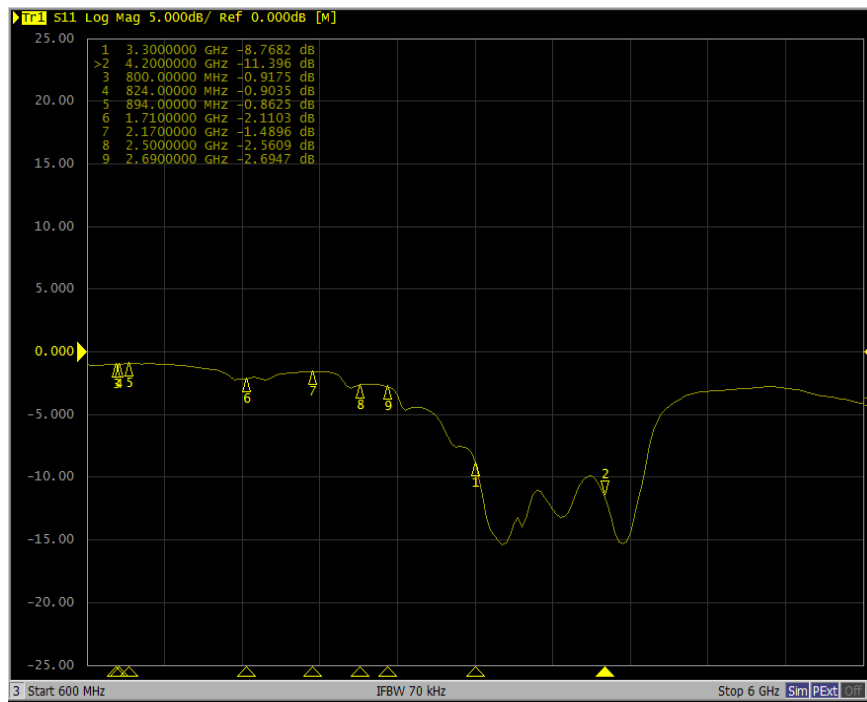
Antenna 3



Antenna 4



Antenna 5



Antenna 6

