
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 R&X

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

Beijing: GTS1800:2 GTS2800:1

Kunshan: GTS2800:1 Satimo:2 GTS1800:3

SAR DASY 4:2



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



StarPoint SP9500



Anritsu MT8820C

2. **Antenna Location**

ANT1: LTE: B7/30/38/40/41 TRX

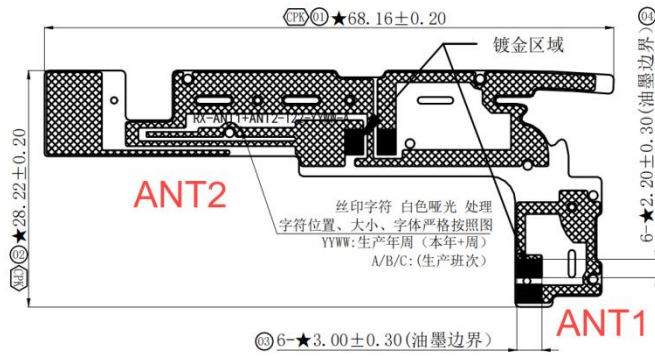
NR:N30/41 TRX

N48/N77 DRX

ANT2: WCDMA :B1/2/5/8 TRX

LTE :B1/2/3/4/5/8/12/14/17/20/25/26/29/66/71 TRX

NR :N2/5/25/29/66/70/71 TRX

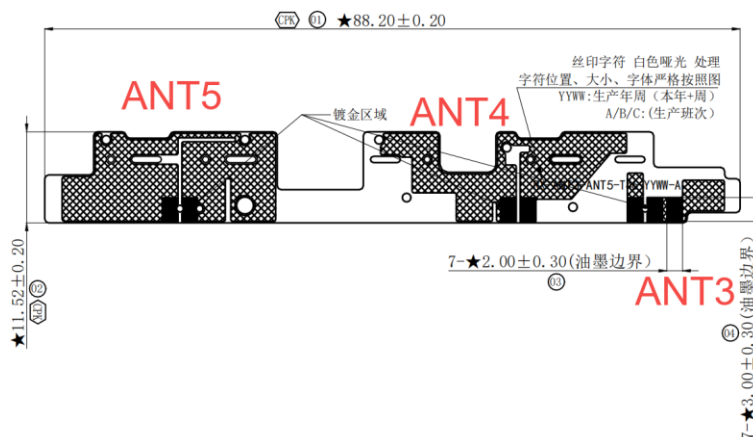


ANT3: NR:N48/77 TRX

ANT4: GPS L1+WIFI 2.4G/WIFI 5G TRX

ANT5: LTE:B1/2/4/25/38/41/66 PRX MIMO

NR:N2/25/66/70/41/48/77 PRX MIMO



ANT6: ENDC: N2/66 TRX

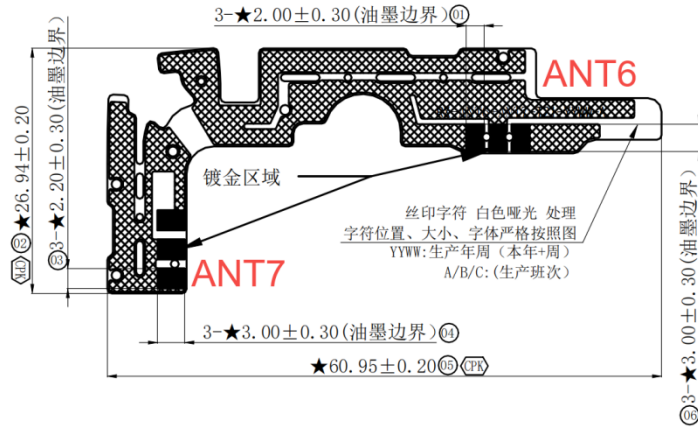
WCDMA :B1/2/5/8 DRX

LTE:B1/2/3/4/5/7/8/12/14/17/20/25/26/29/30/38/40/41/66/71 DRX

NR:N2/5/25/29/30/41/66/70/71 DRX

ANT7:LTE:B1/2/4/25/38/41/66 DRX MIMO

NR:N2/25/66/70/41/48/77 DRX MIMO



3. Antenna Passive Efficiency

a. Antenna1

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
LTE	Band 7	-4.0dBi	-5.3dBi	1.1dBi	0.2dBi
	Band 30	-3.5dBi	-5.2dBi	0.0dBi	-0.8dBi
	Band 38	-4.1dBi	-4.1dBi	1.0dBi	1.0dBi
	Band 40	-4.3dBi	-4.7dBi	1.0dBi	0.5dBi
	Band 41	-3.8dBi	-3.8dBi	1.2dBi	1.2dBi
NR	Band 30	-3.5dBi	-5.2dBi	0.0dBi	-0.8dBi
	Band 41	-3.8dBi	-3.8dBi	1.2dBi	1.2dBi
	Band 48	-7.4dBi	-7.4dBi	-2.0dBi	-2.0dBi
	Band 77	-8.0dBi	-8.0dBi	-3.1dBi	-3.1dBi

c. Antenna2

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
WCDMA	Band 1	-4.6dBi	-4.4dBi	0.5dBi	-0.1dBi
	Band 2	-5.8dBi	-4.1dBi	0.1dBi	-0.7dBi
	Band 5	-4.4dBi	-5.5dBi	0.3dBi	-0.3dBi
	Band 8	-6.0dBi	-9.4dBi	-1.1dBi	-4.6dBi
LTE	Band 1	-4.6dBi	-4.4dBi	0.5dBi	-0.1dBi
	Band 2	-5.8dBi	-4.1dBi	0.1dBi	-0.7dBi
	Band 3	-4.0dBi	-5.3dBi	2.2dBi	-0.1dBi
	Band 4	-3.7dBi	-5.2dBi	1.6dBi	-0.9dBi
	Band 5	-5.5dBi	-5.5dBi	0.3dBi	-0.3dBi
	Band 8	-6.2dBi	-9.4dBi	-1.1dBi	-4.6dBi

	Band 12	-4.9dBi	-4.2dBi	0.8dBi	-0.1dBi
	Band 14	-4.6dBi	-3.9dBi	0.3dBi	-0.2dBi
	Band 17	-4.9dBi	-8.4dBi	0.8dBi	-5.2dBi
	Band 20	-3.3dBi	-9.4dBi	0.3dBi	-6.6dBi
	Band 25	-5.8dBi	-4.1dBi	0.1dBi	-0.7dBi
	Band 26	-5.5dBi	-5.5dBi	0.3dBi	-0.3dBi
	Band 29	/	-8.4dBi	/	-5.2dBi
	Band 66	-3.5dBi	-5.4dBi	1.6dBi	-1.0dBi
	Band 71	-6.2dBi	-3.4dBi	-1.2dBi	0.2dBi
NR	Band 2	-5.8dBi	-4.1dBi	0.1dBi	-0.7dBi
	Band 5	-5.5dBi	-5.5dBi	0.3dBi	-0.3dBi
	Band 25	-5.8dBi	-4.1dBi	0.1dBi	-0.7dBi
	Band 29	/	-8.4dBi	/	-5.2dBi
	Band 66	-3.5dBi	-5.4dBi	1.6dBi	-1.0dBi
	Band 70	-4.2dBi	-5.2dBi	1.8dBi	-0.7dBi
	Band 71	-6.2dBi	-3.4dBi	-1.2dBi	0.2dBi

c. Antenna3

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
NR	Band 48	-7.4dBi	-7.4dBi	-2.0dBi	-2.0dBi
	Band 77	-3.5dBi	-3.5dBi	1.1dBi	1.1dBi

d. Antenna4

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
GPS	L1 1575.5	/	-4.3dBi	/	0.0dBi
WIFI 2.4G	2.4Ghz-2.5Ghz	-5.9dBi	-5.9dBi	0.8dBi	0.8dBi
WIFI 5G	Band 1	-4.2dBi	-4.2dBi	0.5dBi	0.5dBi
	Band 2	-4.8dBi	-4.8dBi	0.2dBi	0.2dBi
	Band 3	-4.0dBi	-4.0dBi	0.6dBi	0.6dBi
	Band 4	-4.9dBi	-4.9dBi	0.2dBi	0.2dBi
BT	2.4Ghz-2.5Ghz	-5.9dBi	-5.9dBi	0.8dBi	0.8dBi

e. Antenna5

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
LTE	Band 1	/	-4.8dBi	/	0.2dBi
	Band 2	/	-6.3dBi	/	-0.3dBi
	Band 4	/	-4.8dBi	/	0.2dBi
	Band 25	/	-6.3dBi	/	-0.3dBi
	Band 38	/	-5.4dBi	/	-0.7dBi
	Band 41	/	-5.7dBi	/	-0.5dBi.
	Band 66	/	-5.1dBi	/	0.7dBi
NR	Band 2	/	-6.3dBi	/	-0.3dBi
	Band 25	/	-6.3dBi	/	-0.3dBi
	Band 41	-5.7dBi	-5.7dBi.	-0.5dBi	-0.5dBi
	Band 48	/	-5.1dBi.	/	1.3dBi
	Band 66	/	-5.1dBi	/	0.7dBi
	Band 70	/	-5.0dBi	/	0.2dBi
	Band 77	-5.2dBi	-5.2dBi	0.3dBi	0.3dBi

f. Antenna6

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
WCDMA	Band 1	/	-7.0dBi	/	-1.5dBi
	Band 2	/	-4.4dBi	/	0.6dBi
	Band 5	/	-5.6dBi	/	0.1dBi
	Band 8	/	-11.2dBi	/	-6.1dBi
LTE	Band 1	/	-7.0dBi	/	-1.5dBi
	Band 2	/	-4.4dBi	/	0.6dBi
	Band 3	/	-4.0dBi	/	0.2dBi
	Band 4	/	-7.0dBi	/	-1.5dBi
	Band 5	/	-5.6dBi	/	0.1dBi
	Band 7	/	-11.8dBi	/	-6.5dBi
	Band 8	/	-11.2dBi	/	-6.1dBi
	Band 12	/	-6.6dBi	/	-1.7dBi
	Band 14	/	-6.3dBi	/	-1.5dBi
	Band 17	/	-6.6dBi	/	-1.7dBi
	Band 20	/	-7.0dBi	/	-1.8dBi
	Band 25	/	-4.4dBi	/	0.6dBi
	Band 26	/	-5.6dBi	/	0.1dBi
	Band 29	/	-6.6dBi	/	-1.7dBi
	Band 30	/	-9.7dBi	/	-5.4dBi
	Band 38	/	-11.2dBi	/	-6.5dBi
	Band 40	/	-9.6dBi	/	-5.2dBi
	Band 41	/	-11.8dBi	/	-6.5dBi

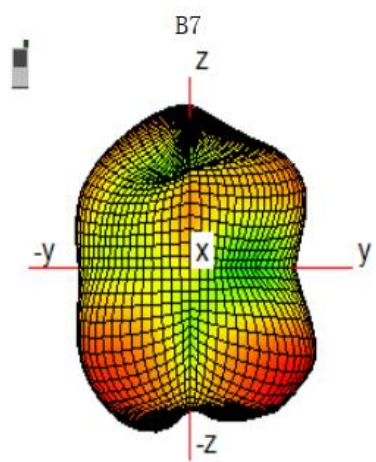
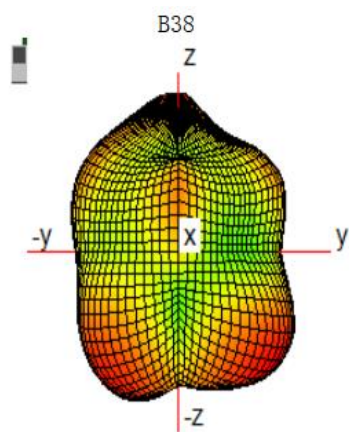
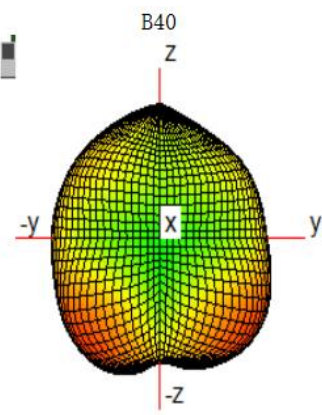
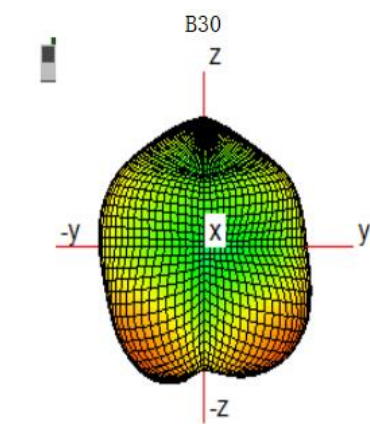
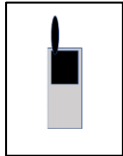
	Band 66	/	-7.2dBi	/	-1.1dBi
	Band 71	/	-10.0dBi	/	-5.3dBi
NR	Band 2	-6.3dBi	-4.4dBi	-0.3dBi	0.6dBi
	Band 5	/	-5.6dBi	/	0.1dBi
	Band 25	/	-4.4dBi	/	0.6dBi
	Band 29	/	-6.6dBi	/	-1.7dBi
	Band 30	/	-9.7dBi	/	-5.4dBi
	Band 41	-11.8dBi	-11.8dBi	-6.5dBi	-6.5dBi
	Band 66	-4.8dBi	-7.2dBi	1.3dBi	-1.1dBi
	Band 70	/	-5.2dBi	/	0.4dBi
	Band 71	/	-10.0dBi	/	-5.3dBi

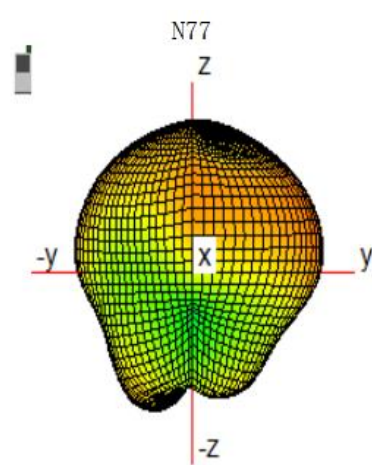
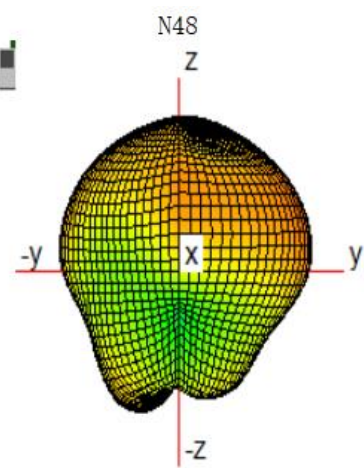
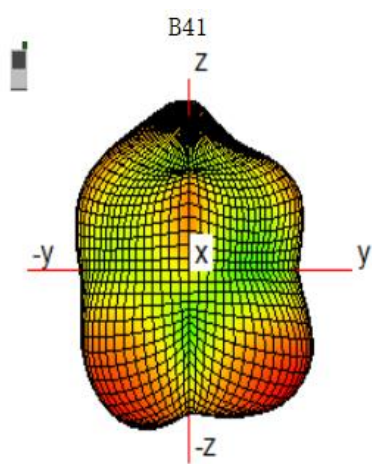
g. Antenna7

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
LTE	Band 1	/	-4.8dBi	/	-0.3dBi
	Band 2	/	-5.6dBi	/	-0.2dBi
	Band 4	/	-4.8dBi	/	-0.3dBi
	Band 25	/	-5.6dBi	/	-0.2dBi
	Band 38	/	-6.5dBi	/	-0.2dBi
	Band 41	/	-5.2dBi	/	0.7dBi
	Band 66	/	-5.0dBi	/	-0.2dBi
NR	Band 2	/	-5.6dBi	/	-0.2dBi
	Band 25	/	-5.6dBi	/	-0.2dBi
	Band 41	-5.2dBi	-5.2dBi	0.7dBi	0.7dBi
	Band 48	/	-4.1dBi	/	1.1dBi
	Band 66	/	-5.0dBi	/	-0.2dBi
	Band 70	/	-5.0dBi	/	0.1dBi
	Band 77	-3.3dBi	-3.3dBi	1.2dBi	1.2dBi

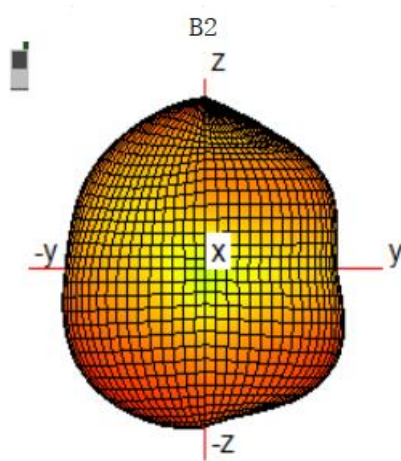
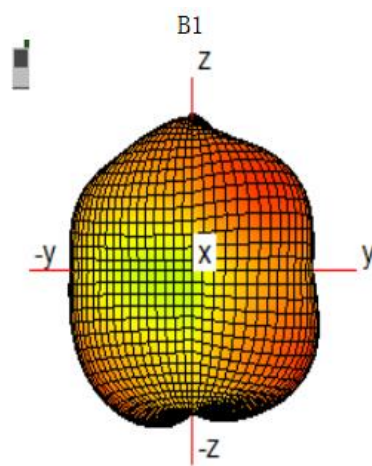
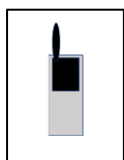
4.Simple Antenna Pattern Plot

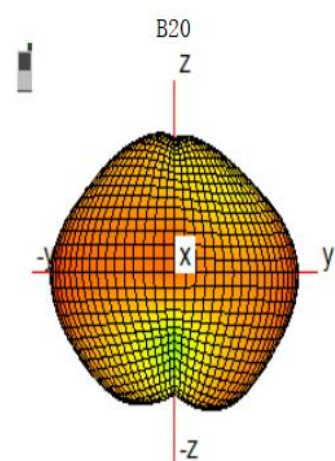
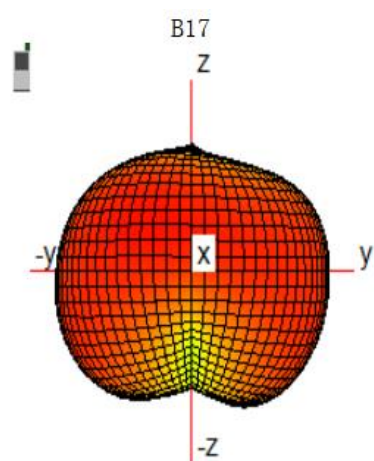
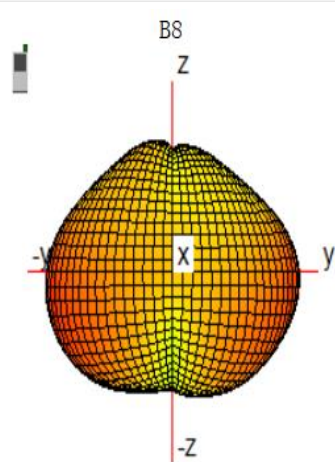
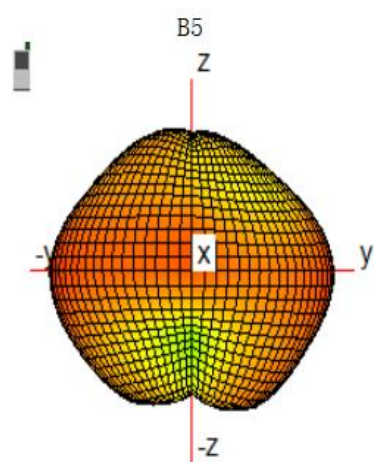
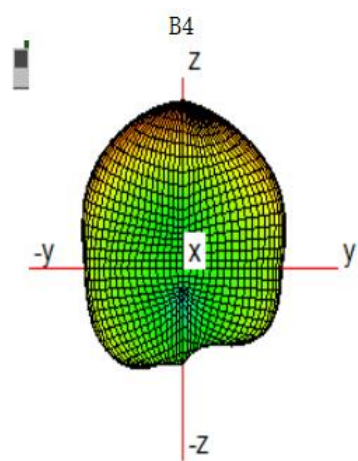
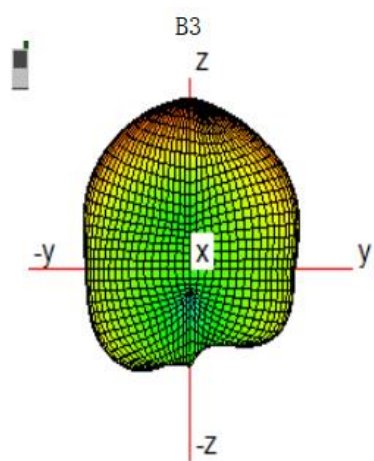
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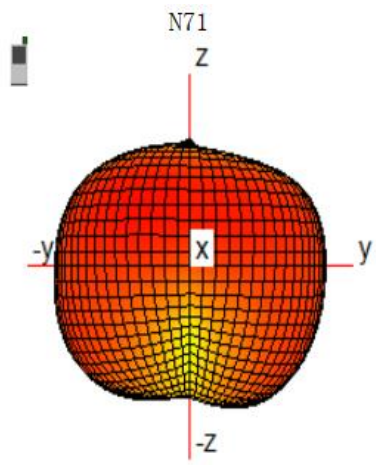
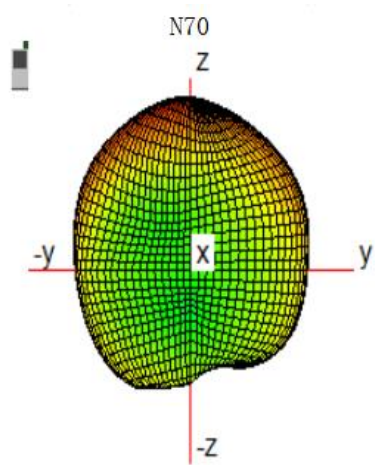
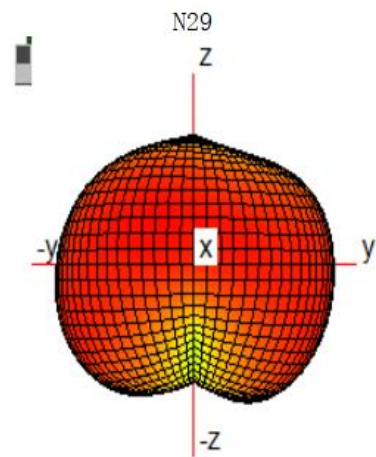
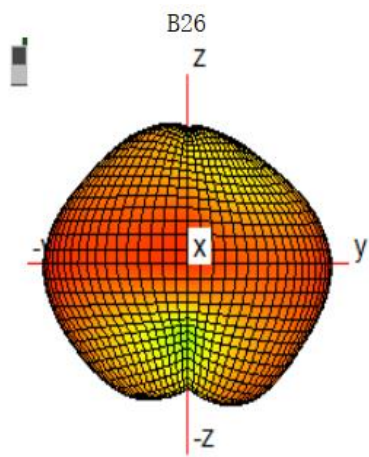




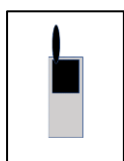
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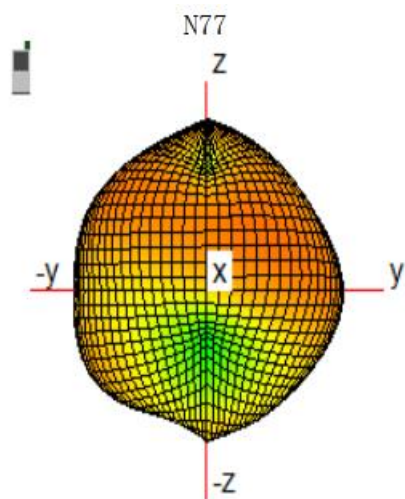
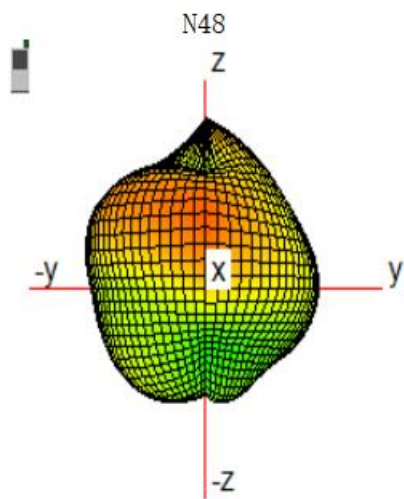




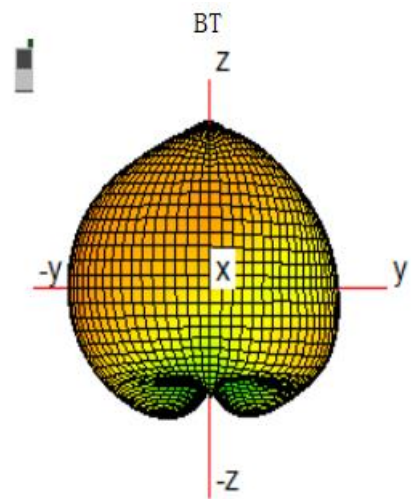
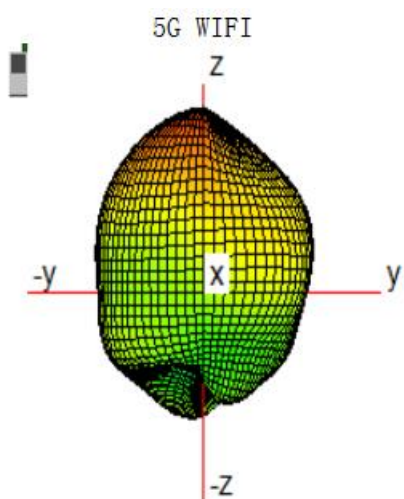
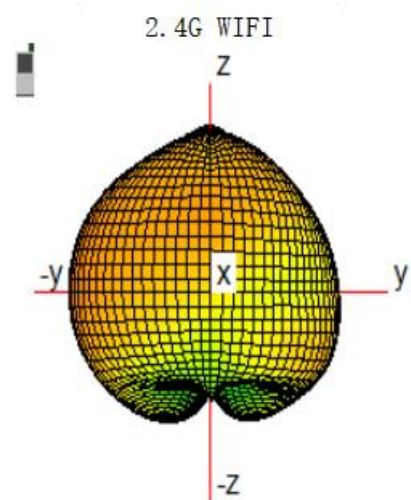
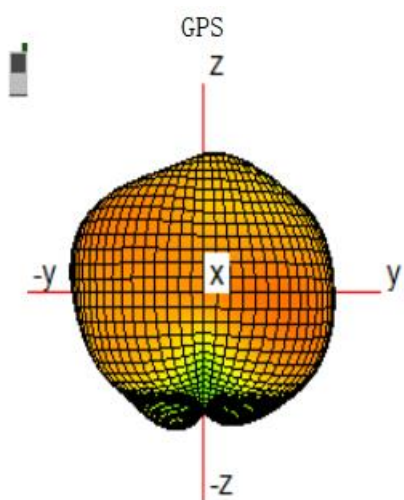
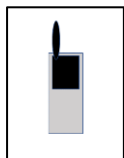


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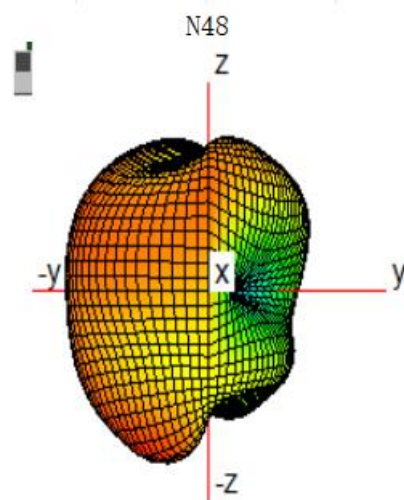
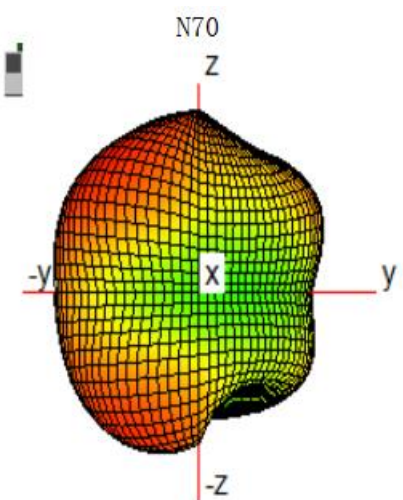
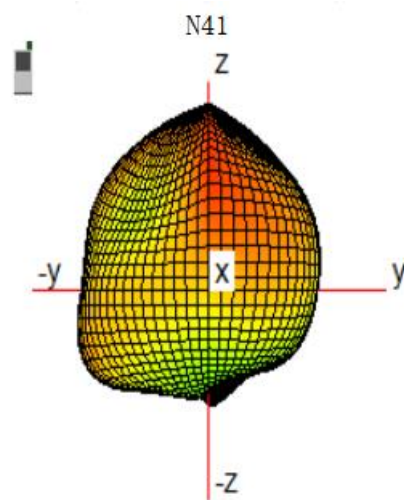
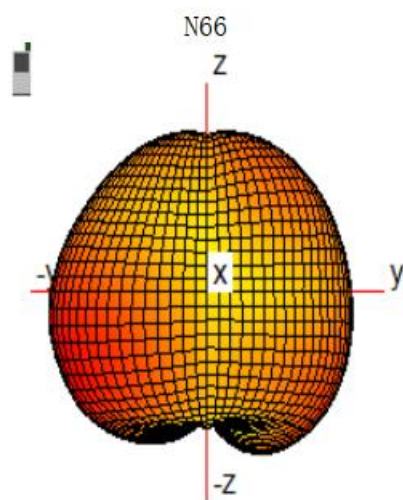
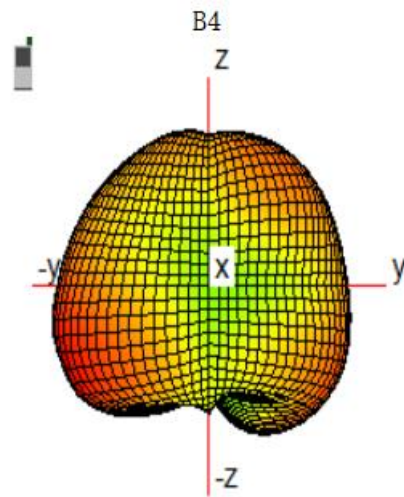
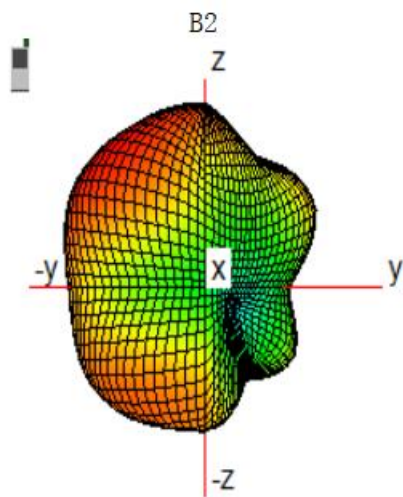
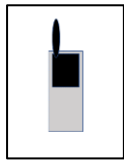


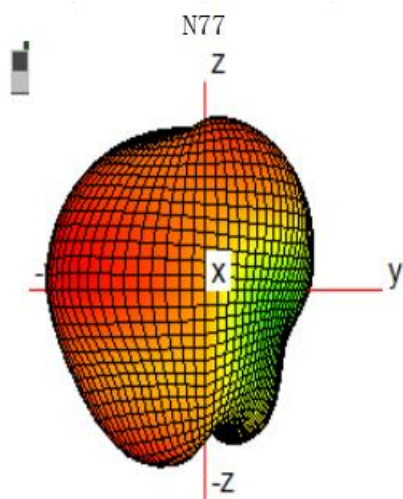


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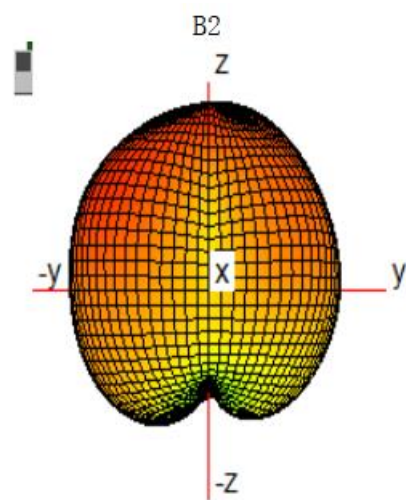
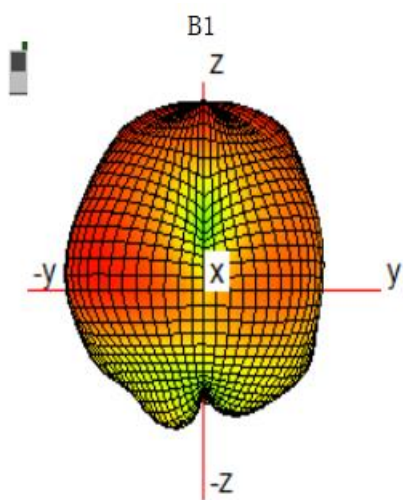
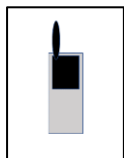


Antenna 5

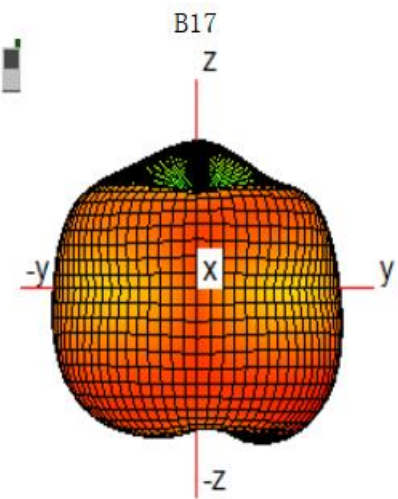
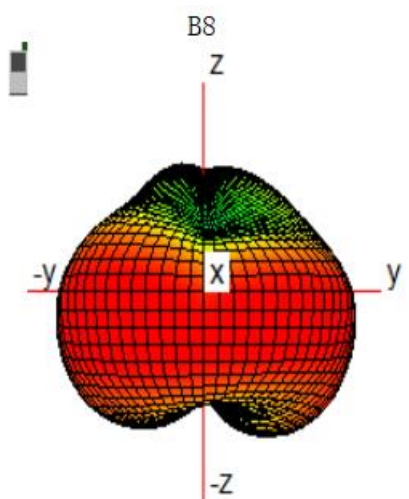
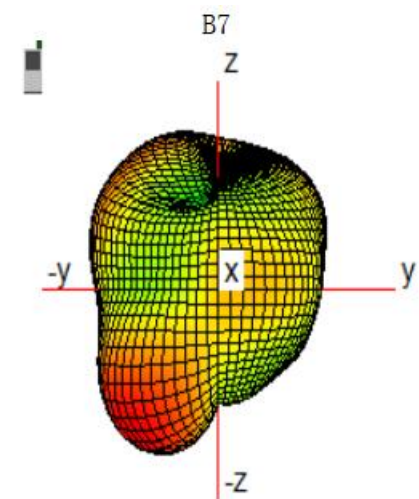
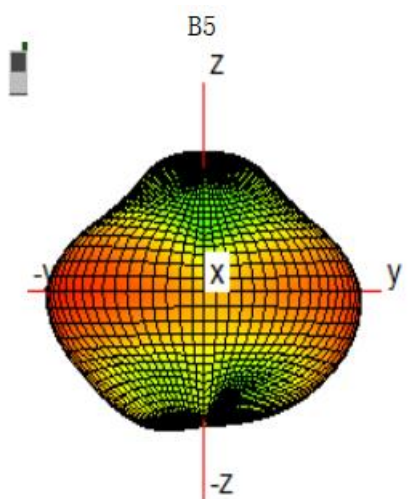
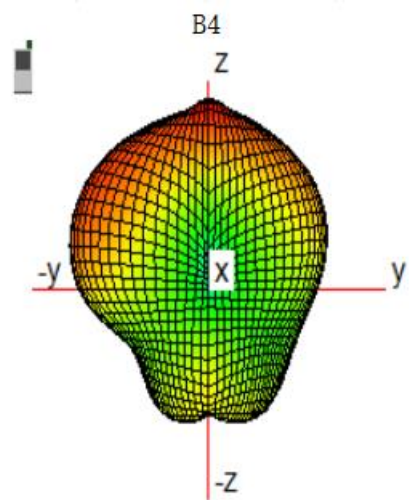
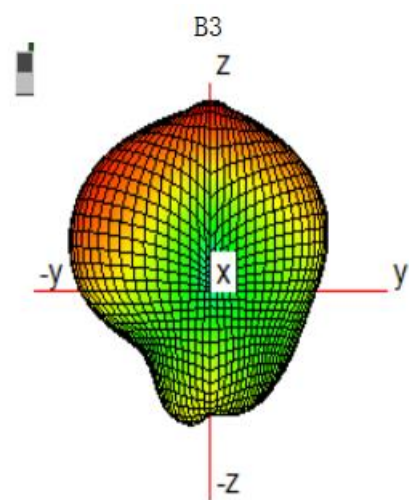


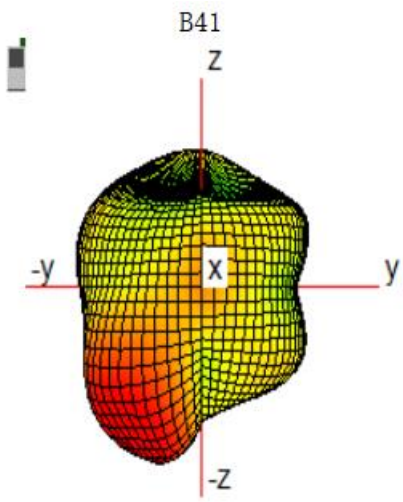
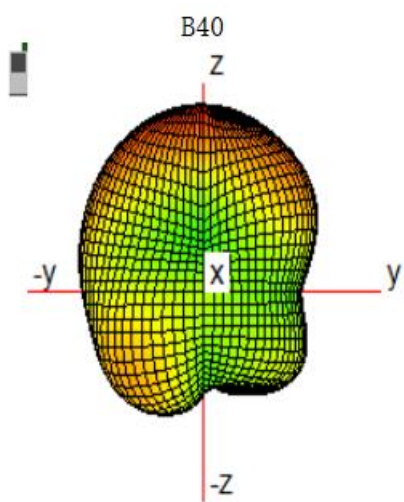
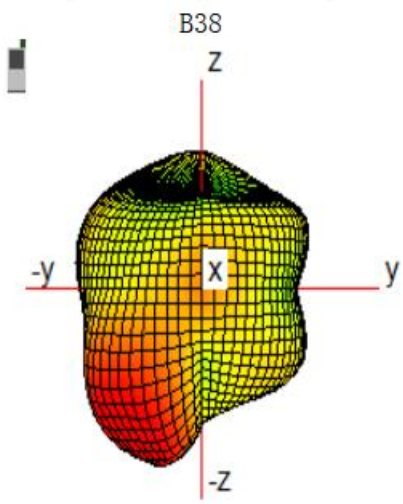
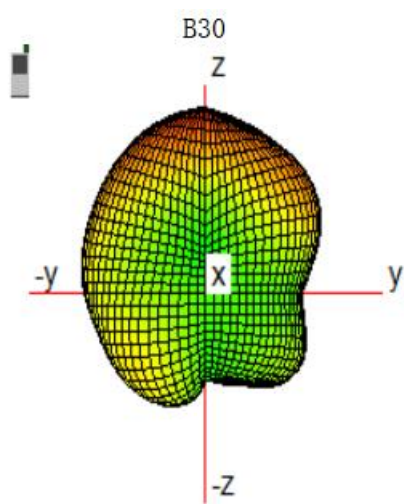
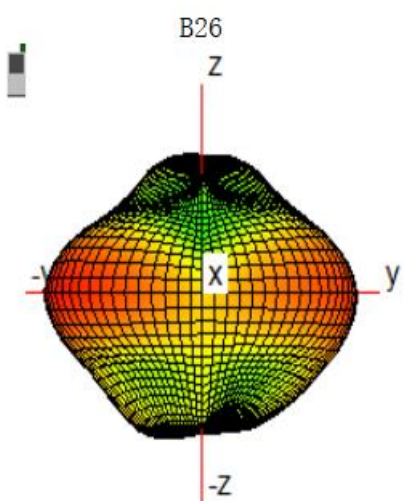
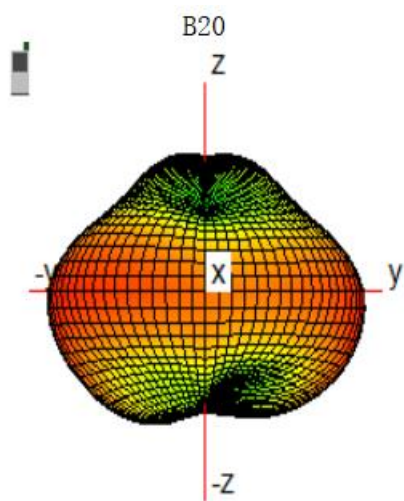


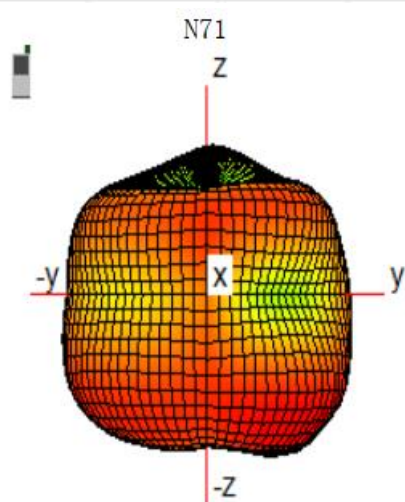
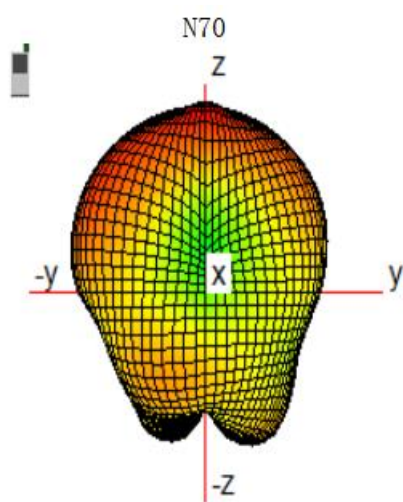
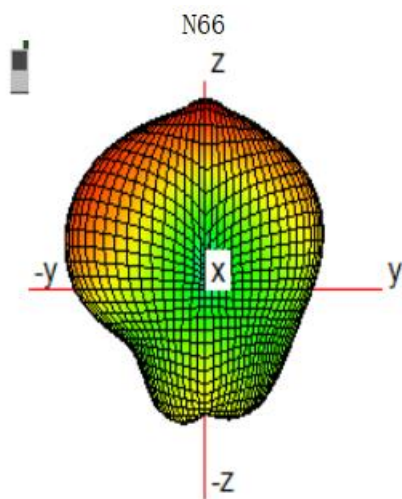
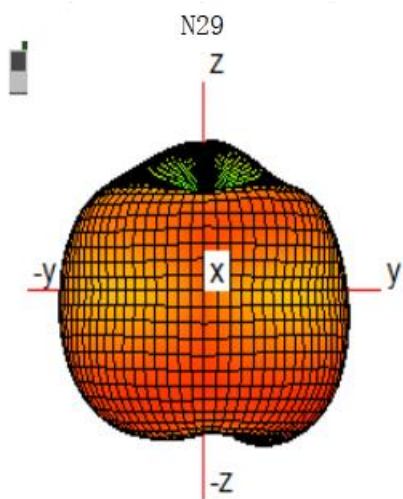
Antenna 6



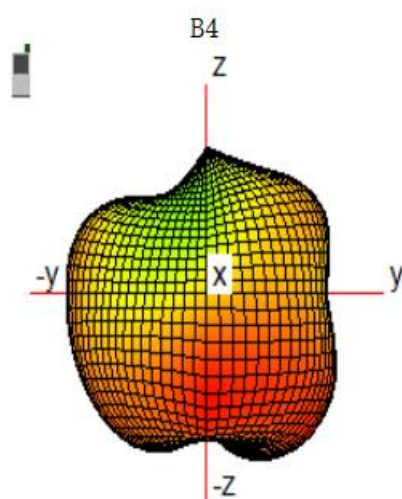
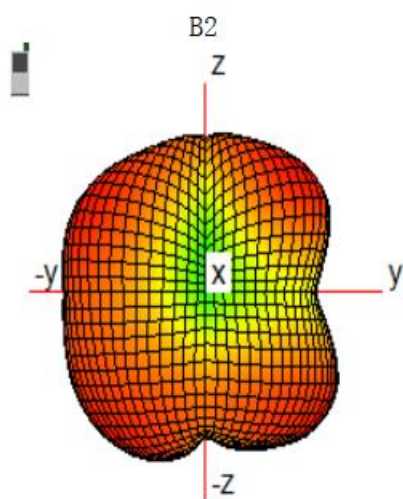
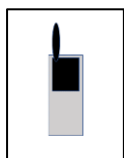
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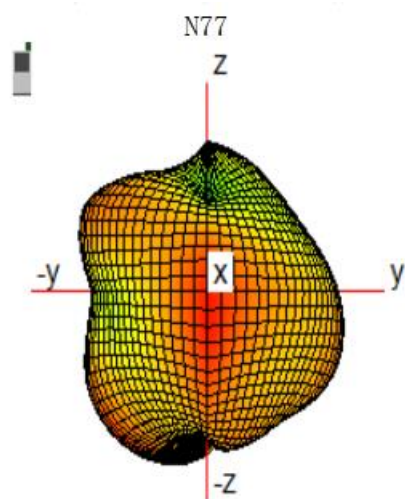
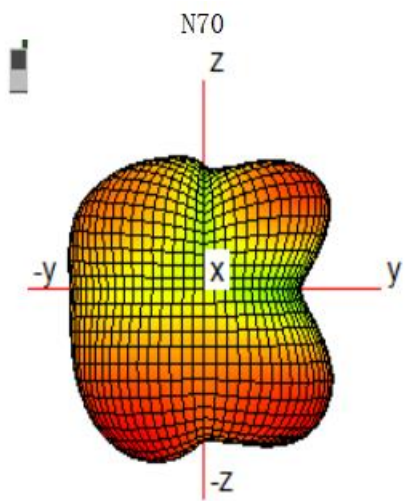
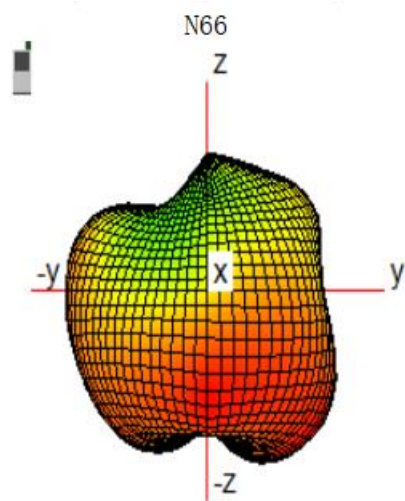
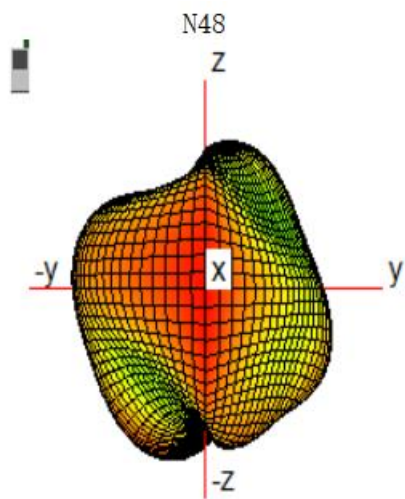
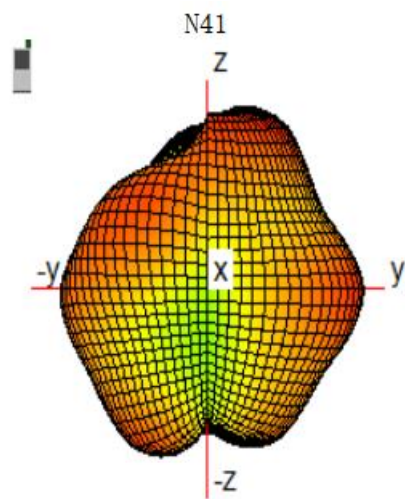






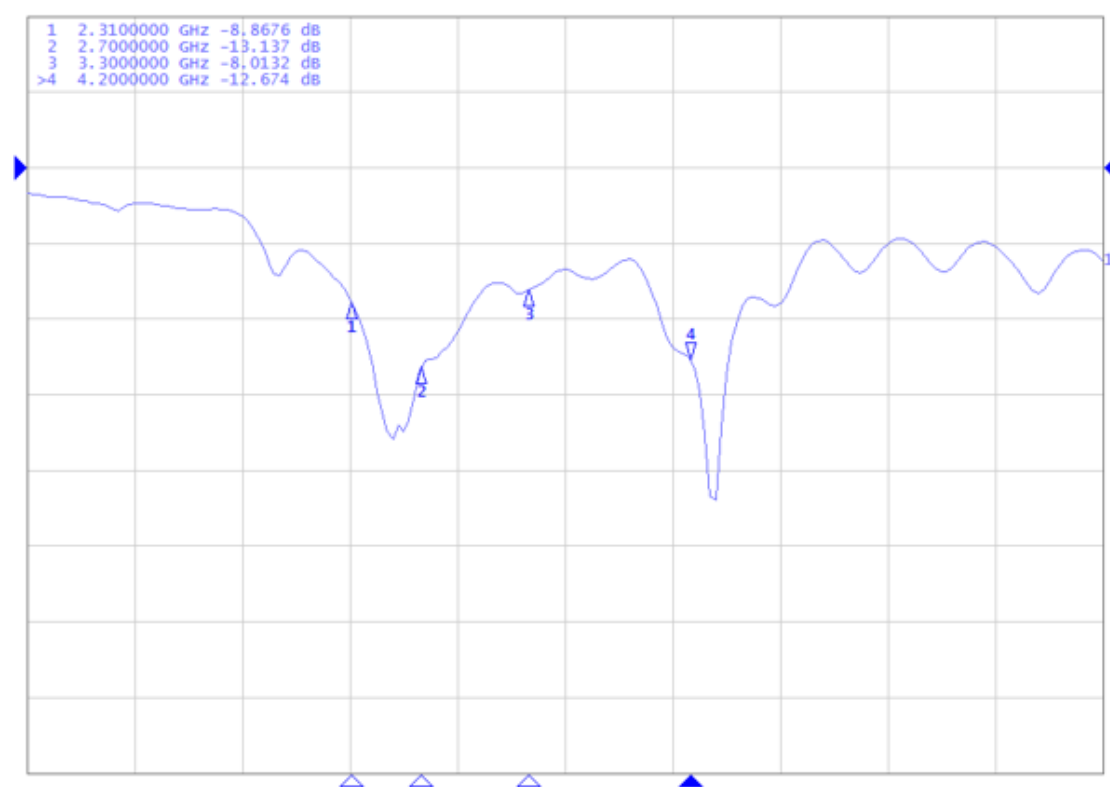
Antenna 7



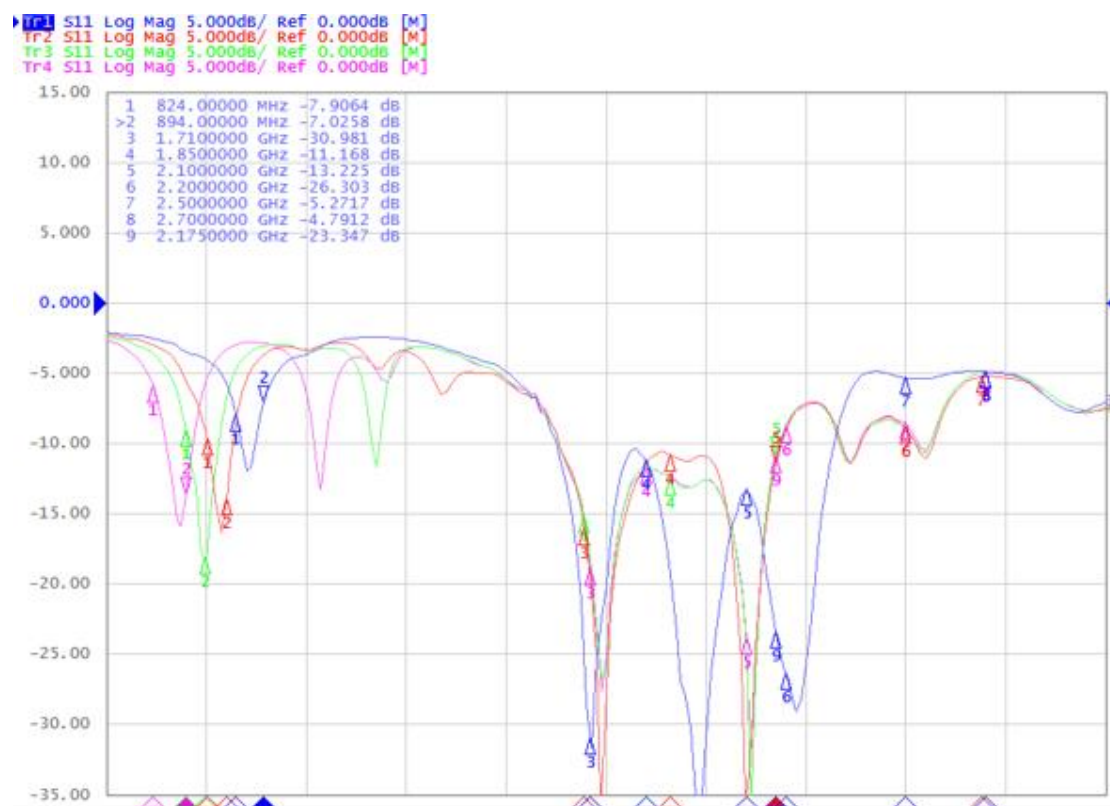


4. Antenna return loss

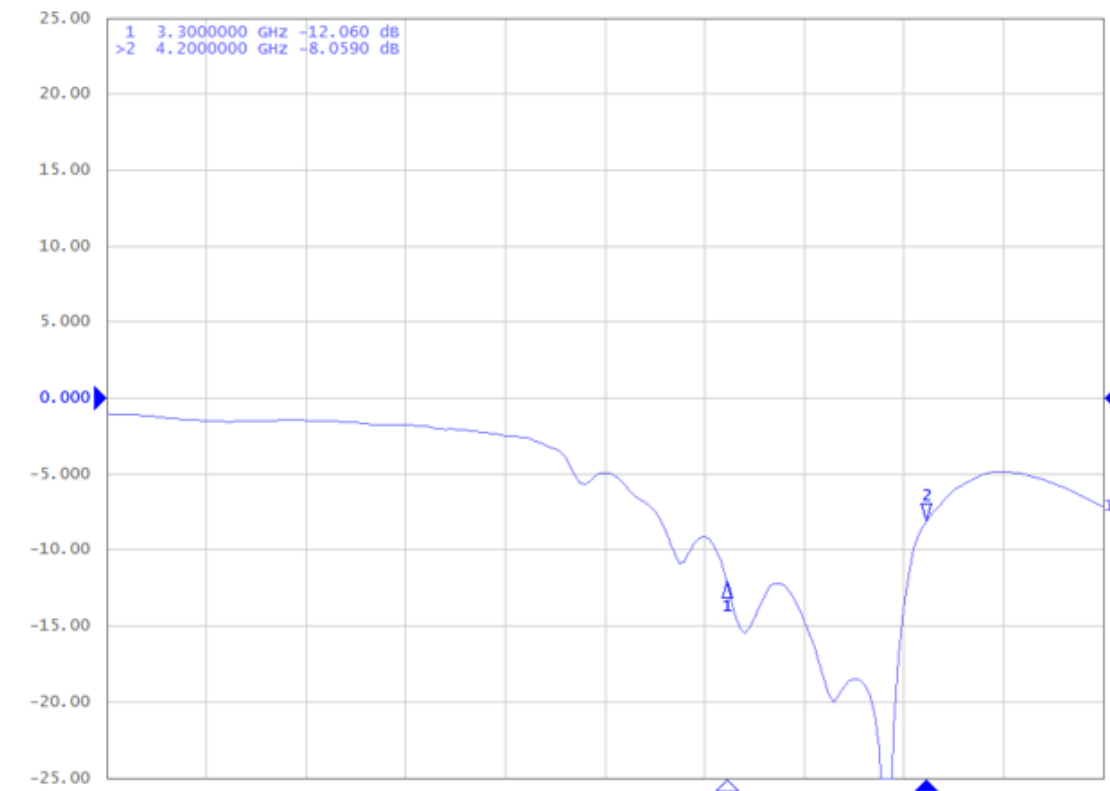
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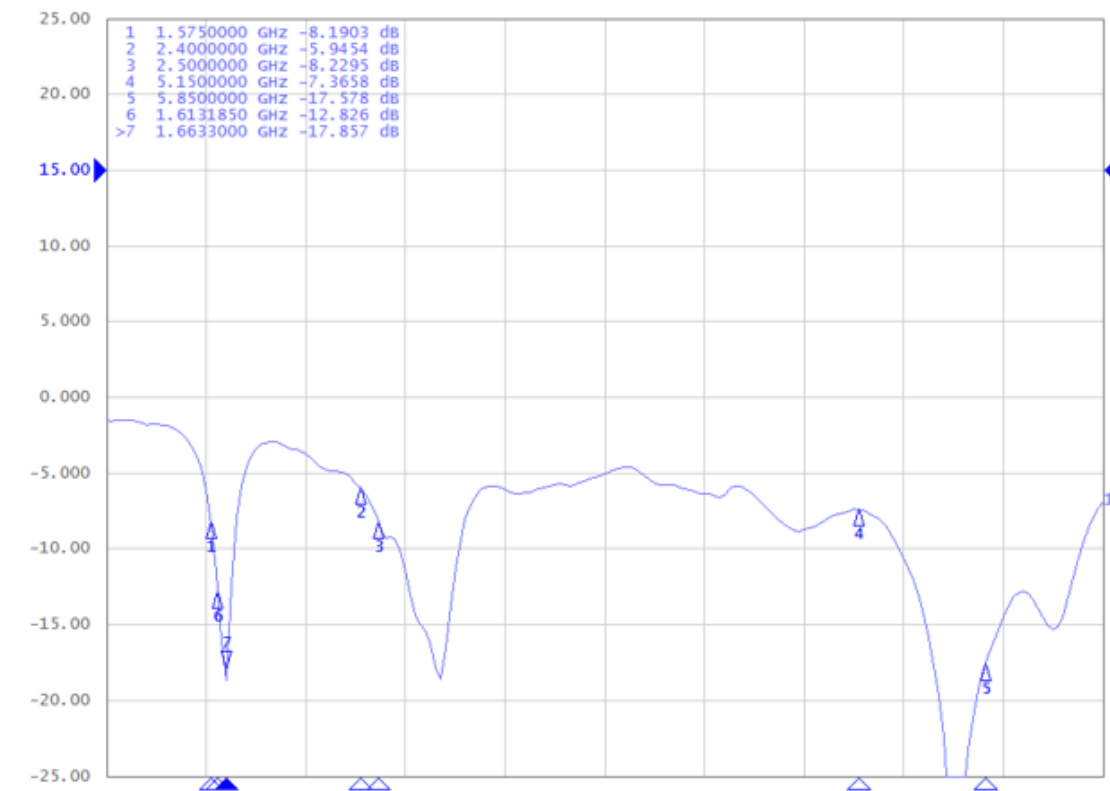
Antenna 2



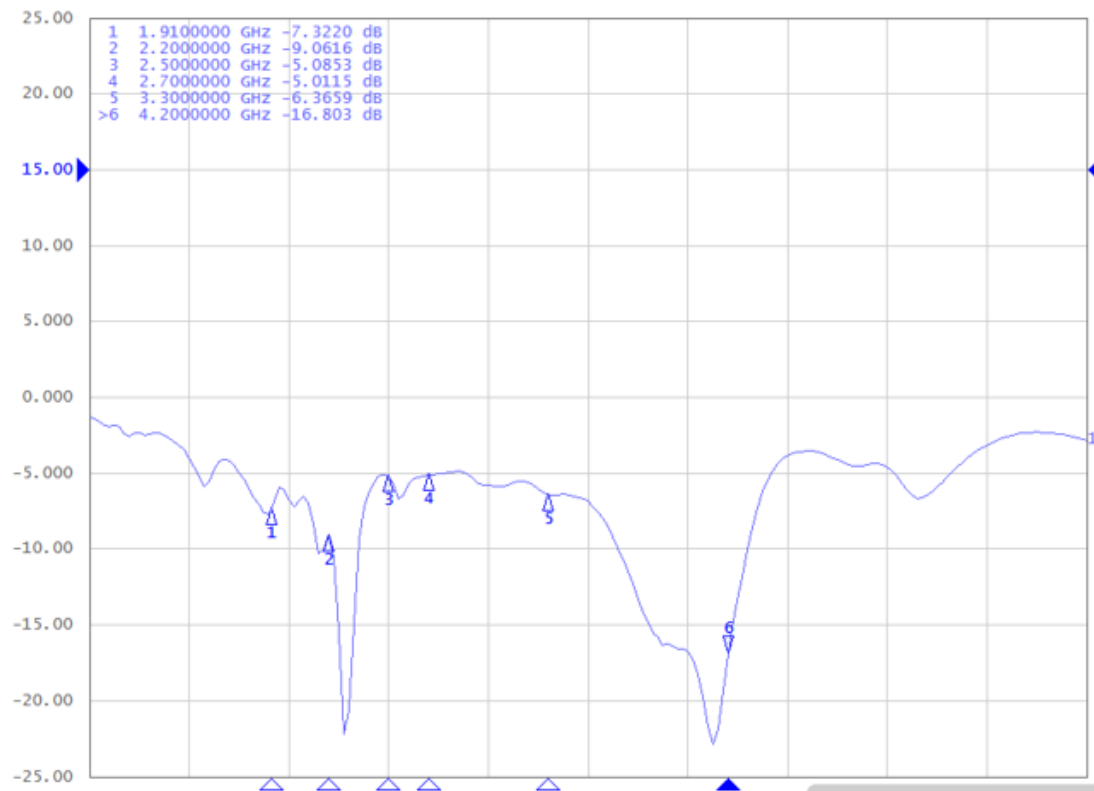
Antenna3



Antenna 4

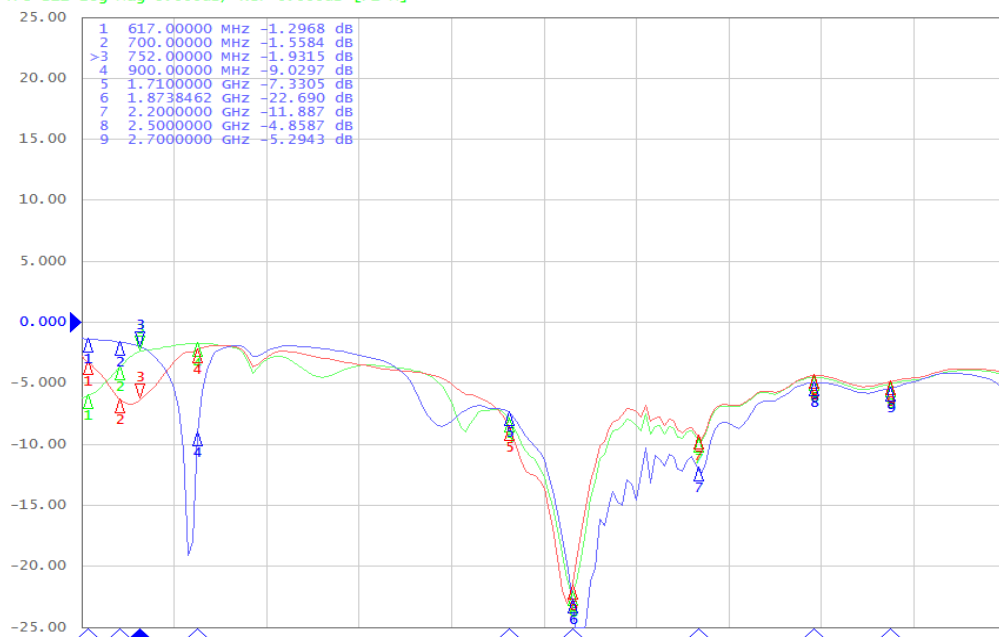


Antenna 5



Antenna 6

Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]
Tr2 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]
Tr3 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]



Antenna 7

