



Delta 1D

2G/3G/4G/(5G) Stubby Antenna

Key Features

- Quad band GSM/GPRS (2G) & UMTS (3G) frequencies
- Compact Size
- Groundplane independent
- Some 4G/5G Band Coverage



General Description

The Delta 1D Multiband antenna has good performance for such a small size.

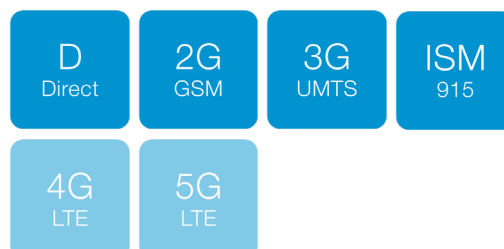
It is a popular choice for customers requiring a multiband antenna for use with 2G/3G terminals and IoT communication equipment.

With the new 4G/5G LTE bands there is also some coverage provided with this antenna.

The antenna is finished with a stylish black 'cap' radome.

Additional Considerations

- Typical Application: terminal equipment
- Does not rely on mounting on metallic surface
- Meets all EU compliance criteria for electronic goods





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Electrical Specifications

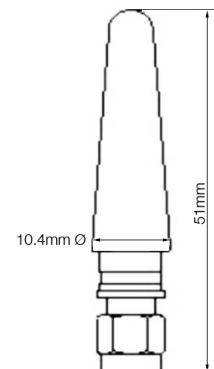
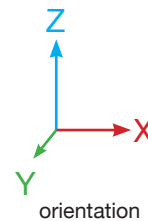
Impedance:	50 Ohms
Radiation:	Omni
Polarization:	Linear

Environmental Specification

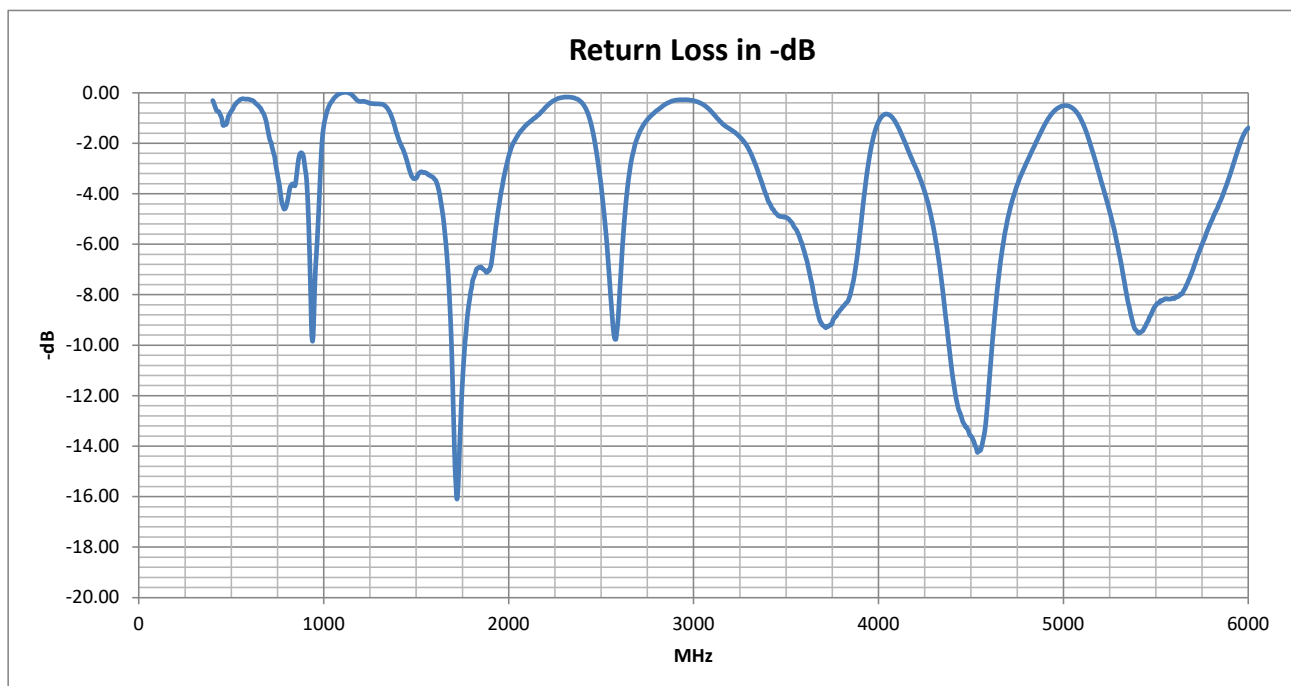
Operating temperature range:	-40 - +85 °C
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Mechanical Specifications

Dimensions:	51 x 10.4 mm
Connector:	SMA Male
Mounting Method:	Direct Connect
Connector plating:	Gold/Nickel



Return Loss

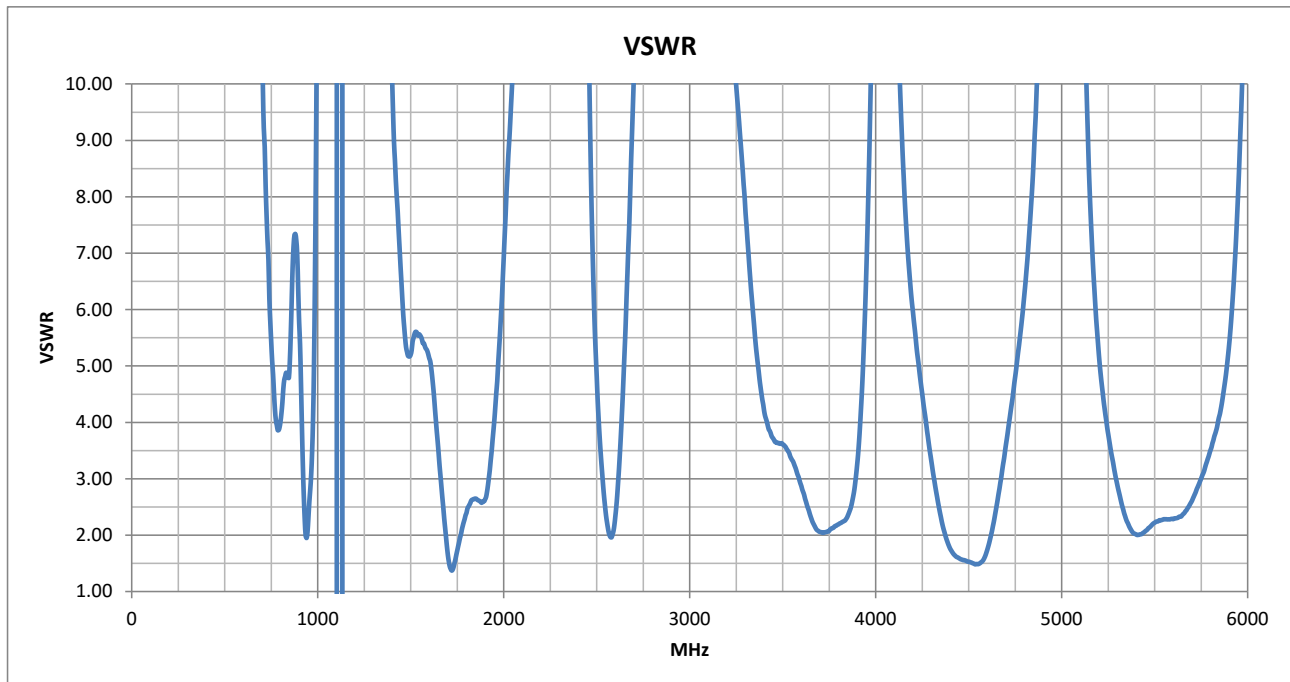




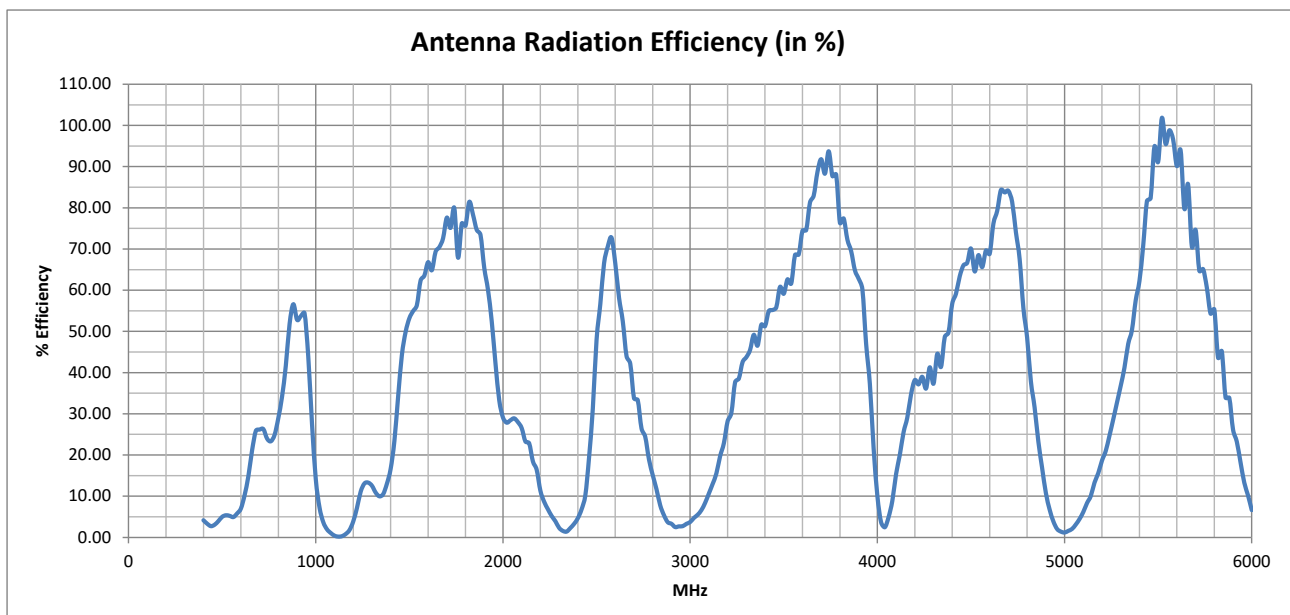
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VSWR



Radiation Efficiency





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LTE/5G Band Coverage

LTE, CAT-M/5G Bands	NB-IoT Band	Regional Coverage	Uplink	Downlink	Avg Efficiency % over band	Max VSWR over Band
3/n3	B3	Europe/Africa/Asia/Oceania	1710-1785 MHz	1805-1880 MHz	75.43 / 76.72 ●	2.23 / 2.65
13/n13	B13	North America/Caribbean +	777-787 MHz	746-756 MHz	25.73 / 23.66 ○	4.04 / 5.78
14/n14	B14	Country Specific	788-798 MHz	758-768 MHz	26.93 / 24.07 ○	4.02 / 5.09
24			1626.5 - 1660.5 MHz	1525 - 1559 MHz	68.23 / 57.90 ●	4.47 / 5.60
38/n38		Europe +	2570-2620 MHz		67.04 ●	3.19
39/n39		Country Specific	1880-1920 MHz		66.34 ●	3.02
42		Country Specific	3400-3600 MHz		61.21 ●	4.20
43		Country Specific	3600-3800 MHz		84.38 ●	2.87
48/n48		Country Specific	3550-3700 MHz		76.98 ●	3.33
80			1710-1785 MHz		75.43 ●	2.23
86			1710-1780 MHz		75.38 ●	2.17
98			1880-1920 MHz		66.34 ●	3.02
99			1626.5-1660.5 MHz		68.23 ●	4.47

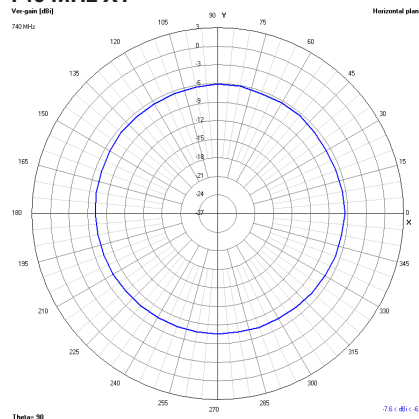
Table data for bands as detailed in 3GPP TS 36.101 & 38.101

● Usable Band

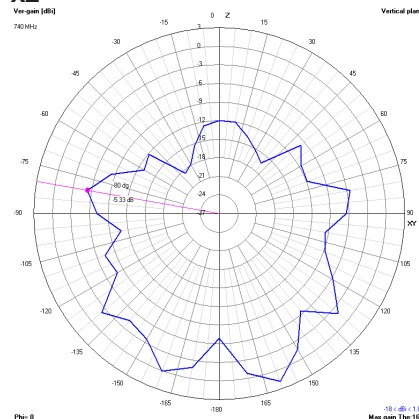
○ Adequate in good signal area

Radiation Plots

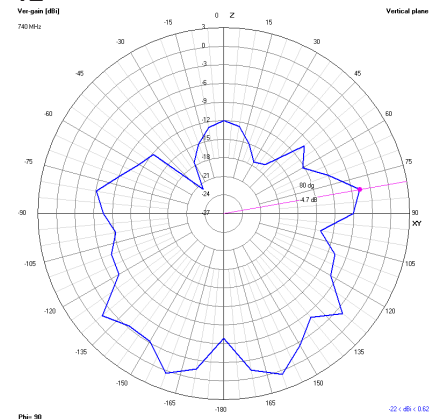
740 MHz XY



XZ



YZ



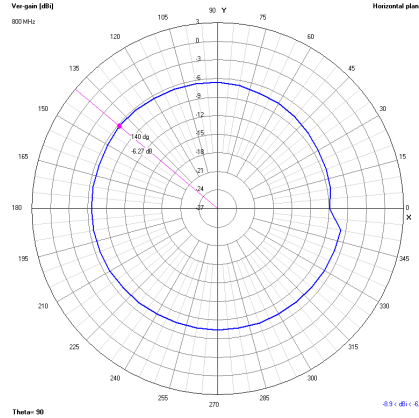


Delta 1D

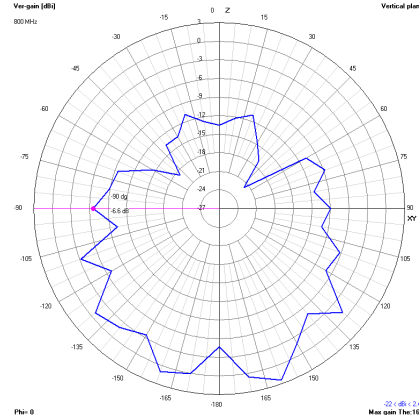
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Radiation Plots

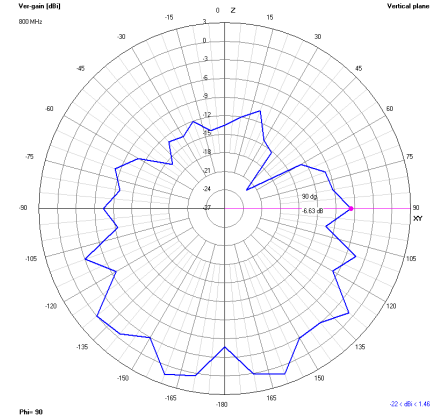
800 MHz XY



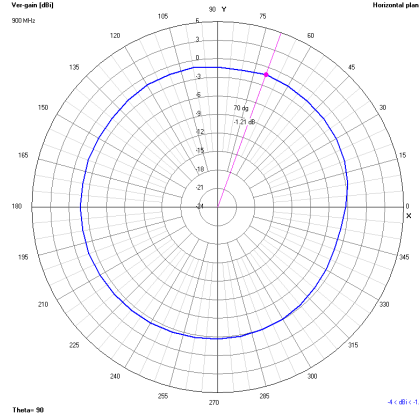
XZ



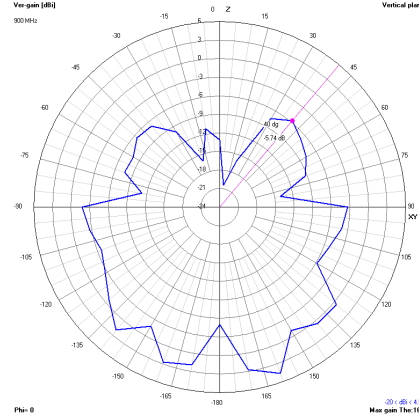
YZ



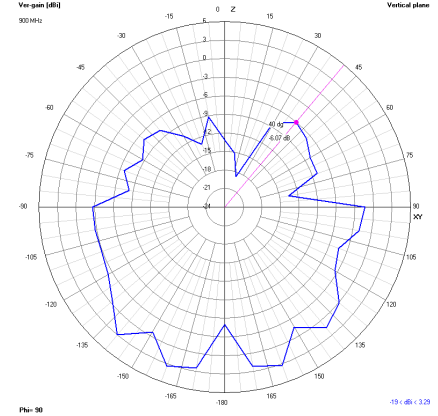
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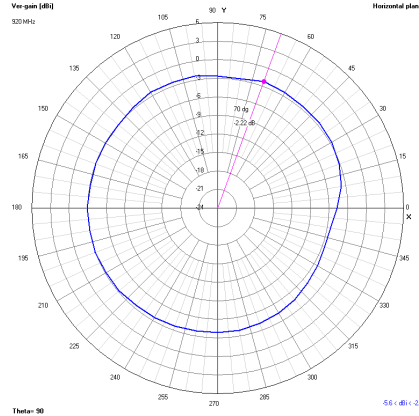
XZ



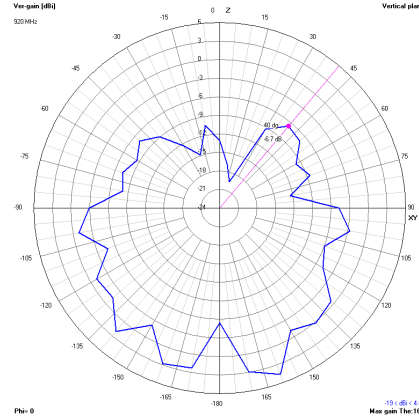
YZ



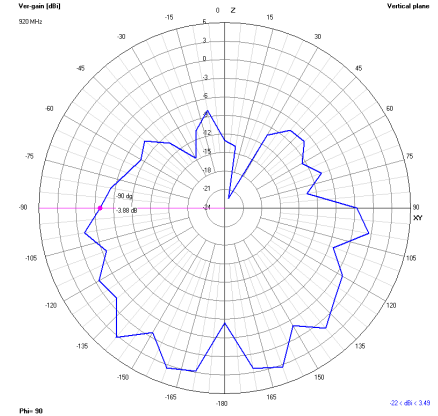
920 MHz XY



XZ



YZ



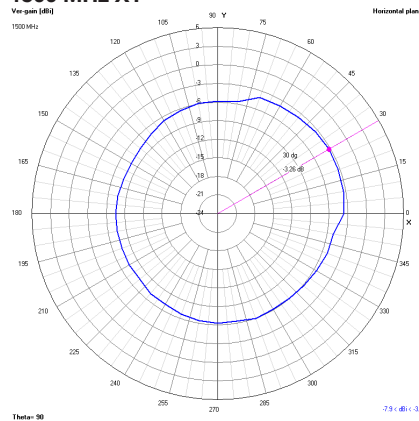


Delta 1D

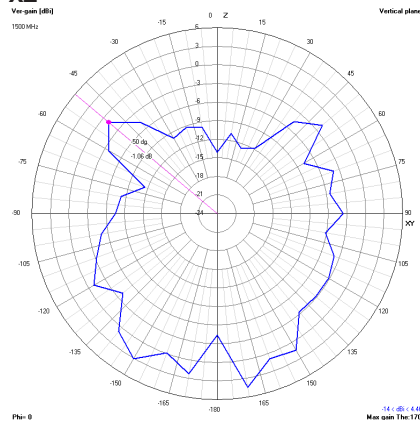
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Radiation Plots

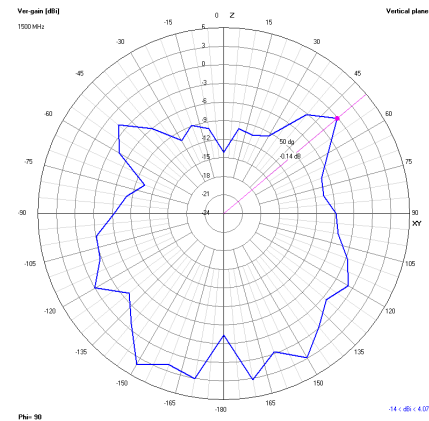
1500 MHz XY



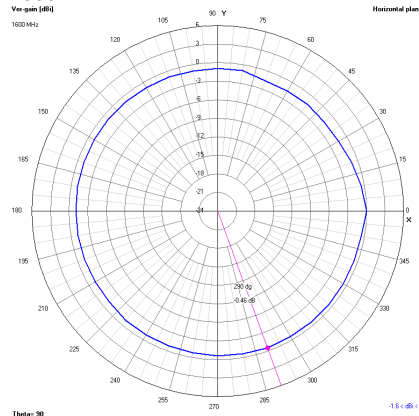
XZ



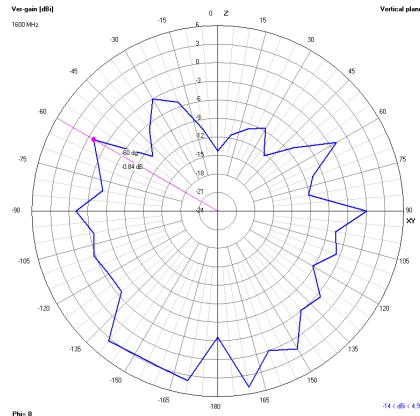
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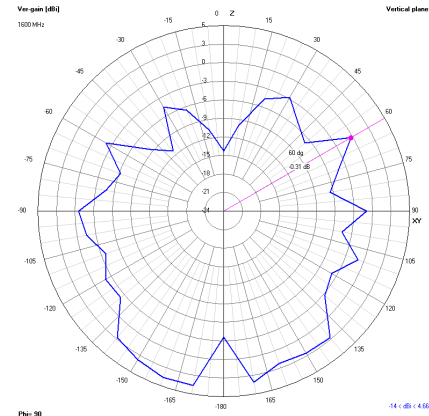
1600 MHz XY



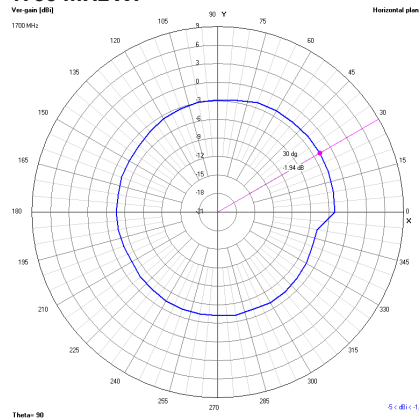
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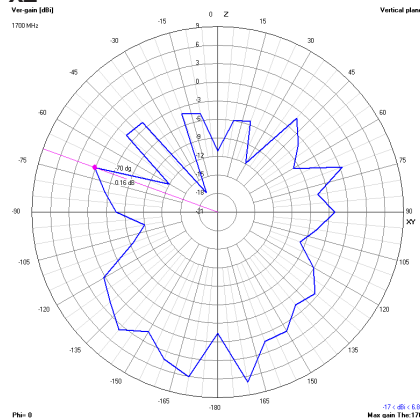
YZ



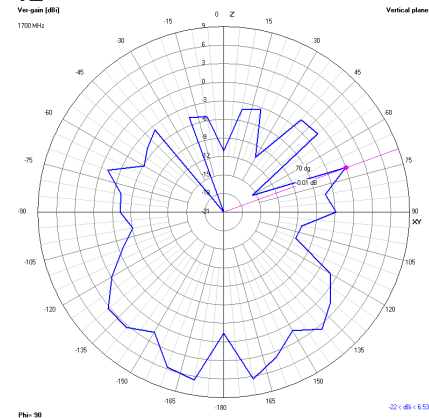
1700 MHz XY



XZ



YZ



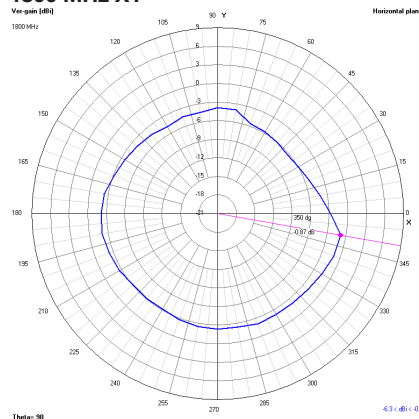


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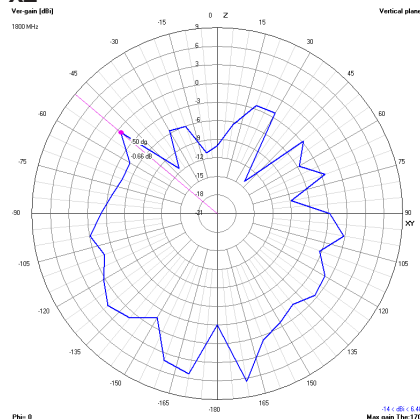
2G/3G/4G/(5G) Stubby Antenna

Radiation Plots

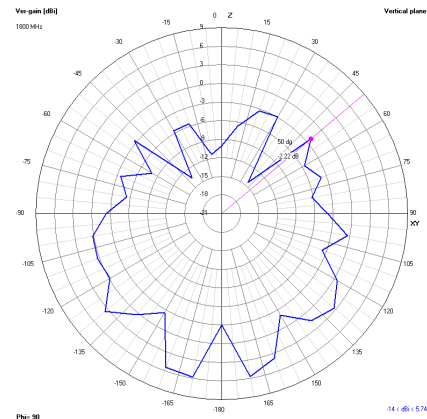
1800 MHz XY



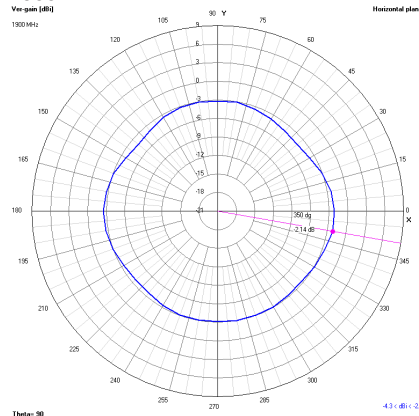
XZ



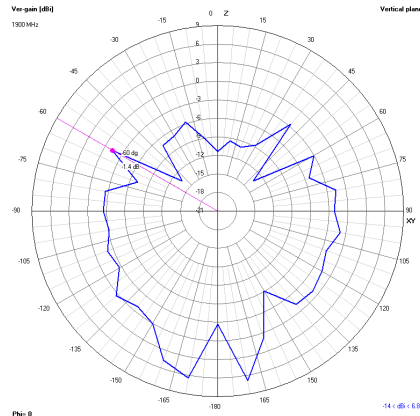
YZ



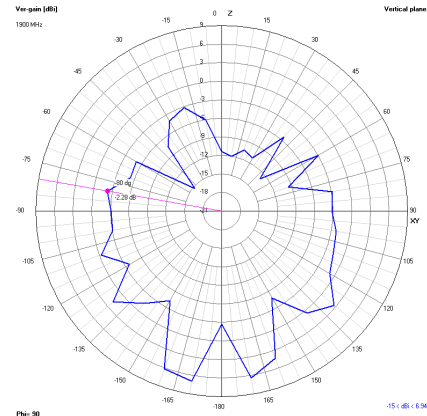
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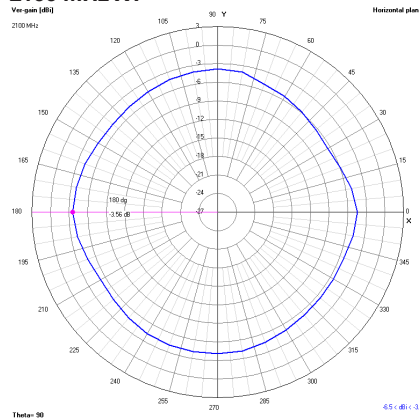
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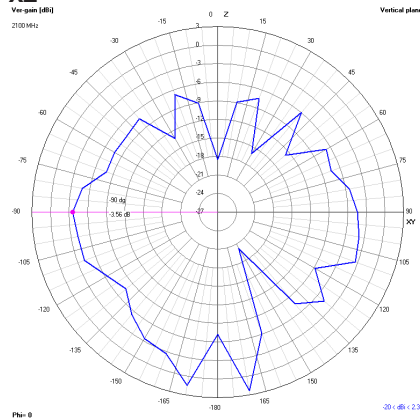
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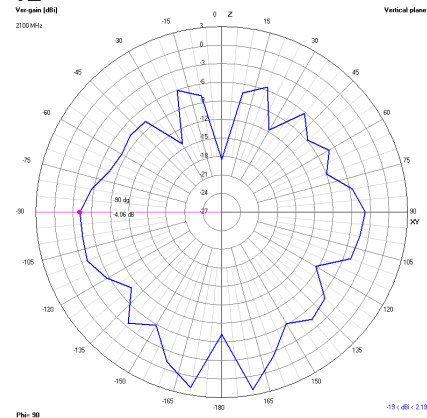
2100 MHz XY



XZ



YZ



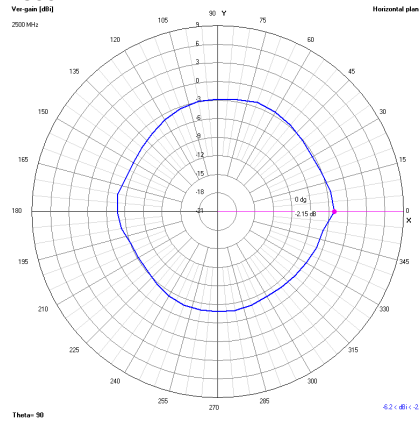


Delta 1D

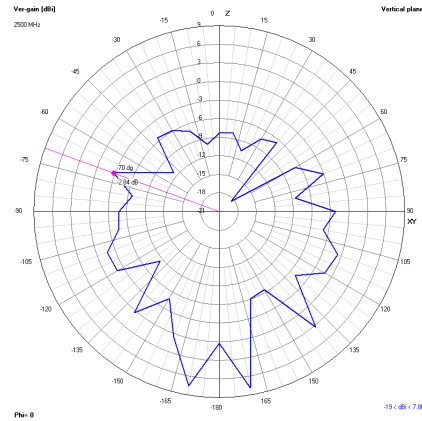
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Radiation Plots

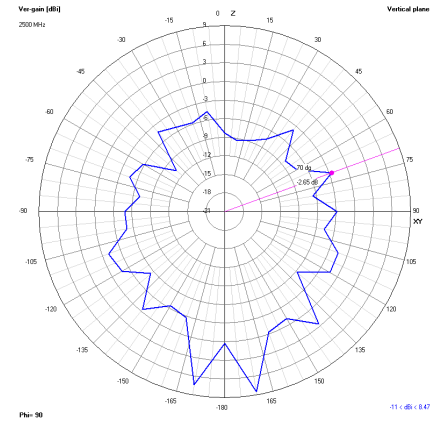
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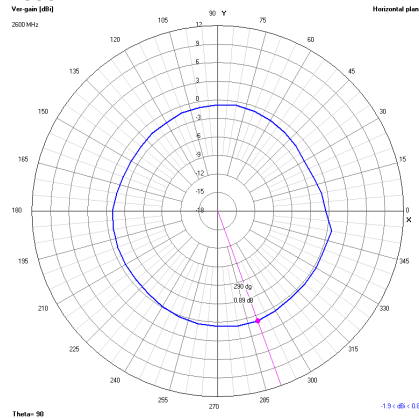
XZ



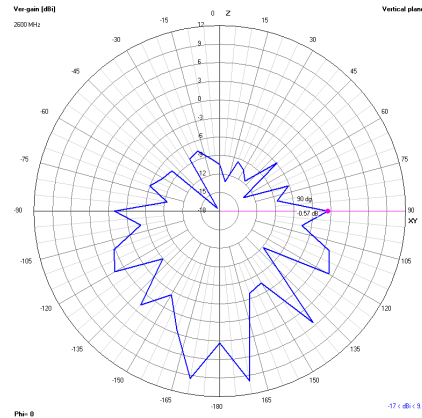
YZ



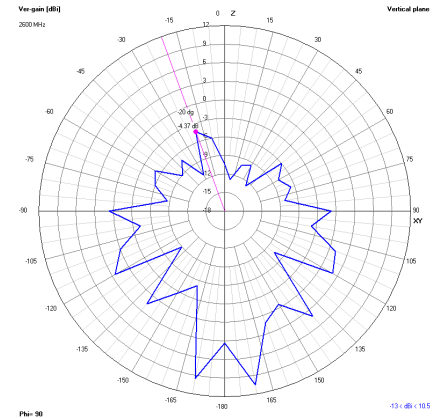
2600 MHz XY



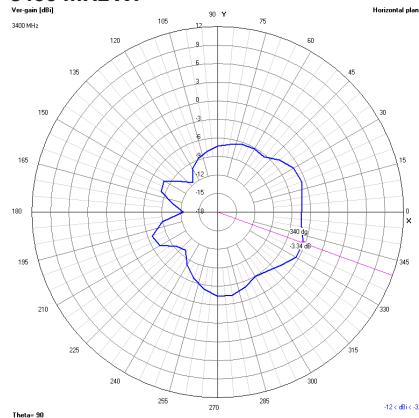
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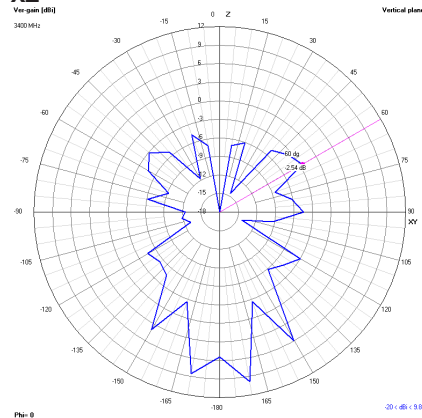
YZ



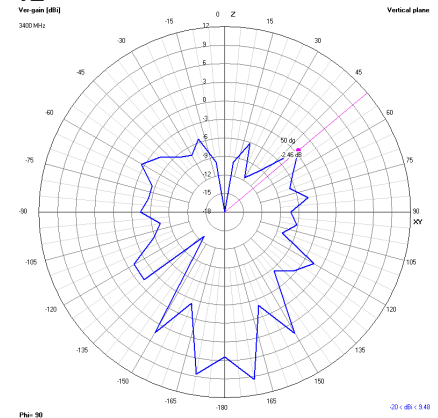
3400 MHz XY



XZ



YZ



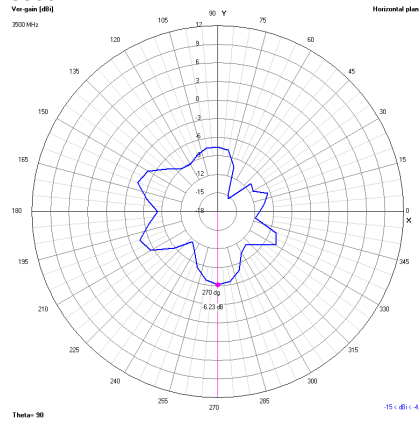


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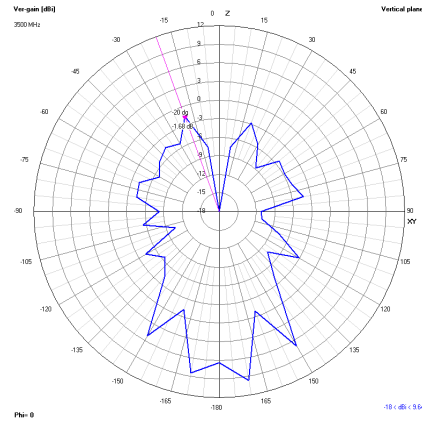
2G/3G/4G/(5G) Stubby Antenna

Radiation Plots

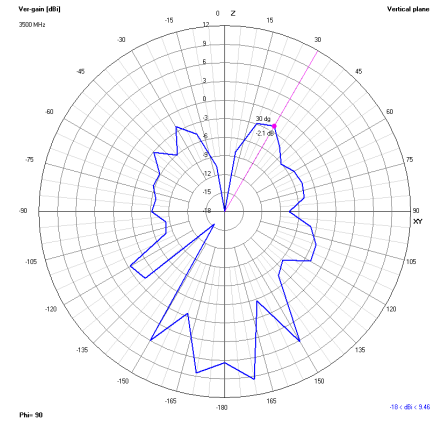
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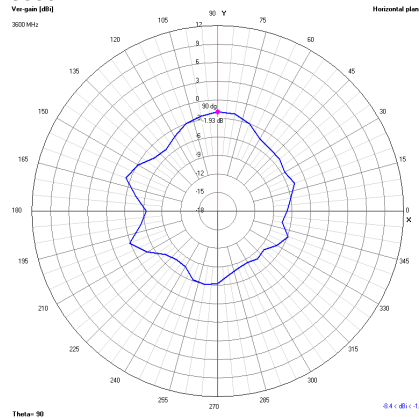
XZ



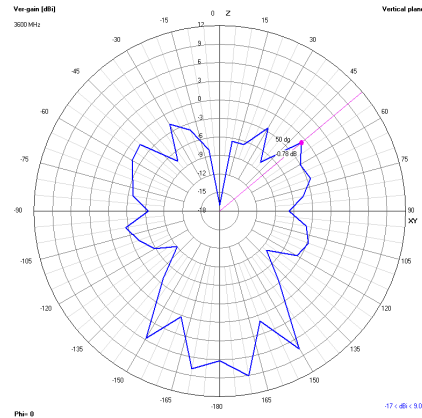
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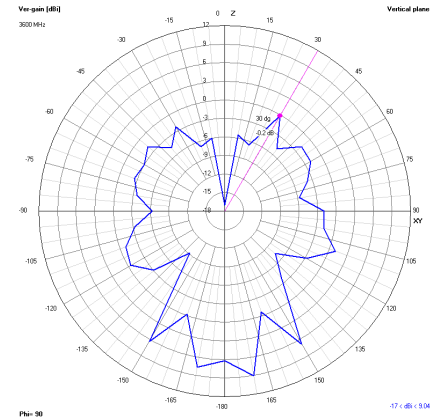
3600 MHz XY



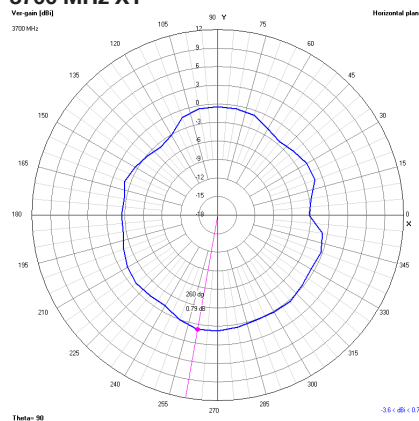
XZ



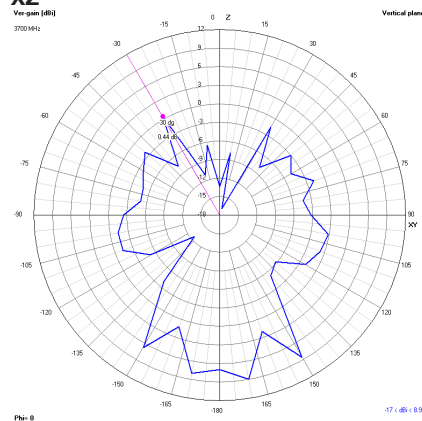
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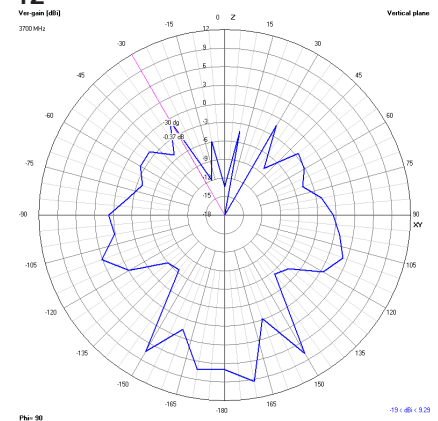
3700 MHz XY



XZ



YZ



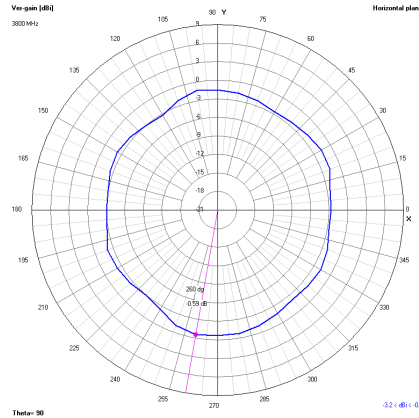


Delta 1D

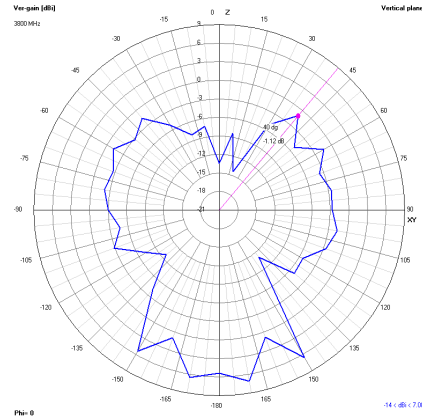
2G/3G/4G/(5G) Stubby Antenna

Radiation Plots

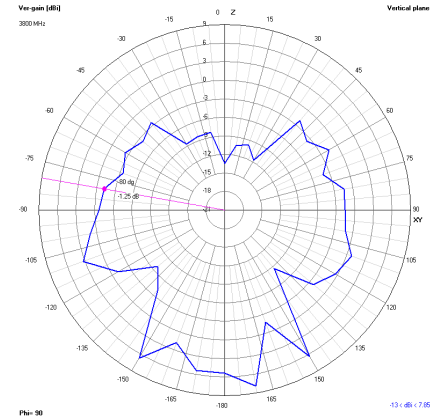
3800 MHz XY



XZ

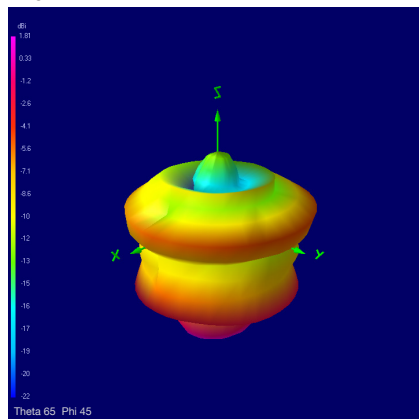


YZ

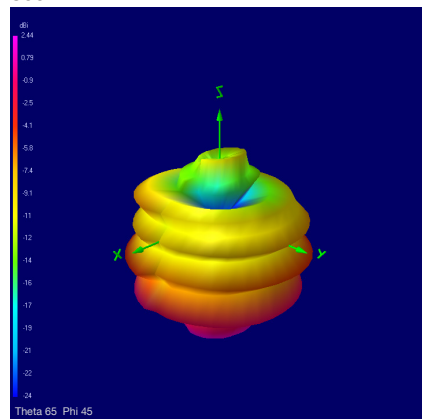


3D Radiation Plots

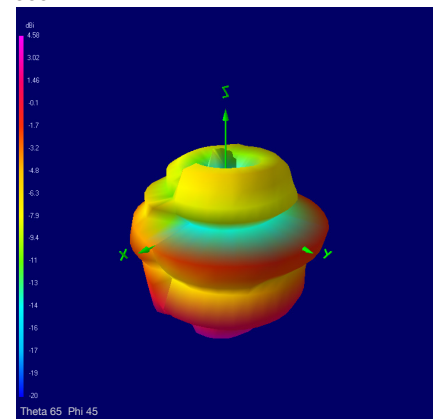
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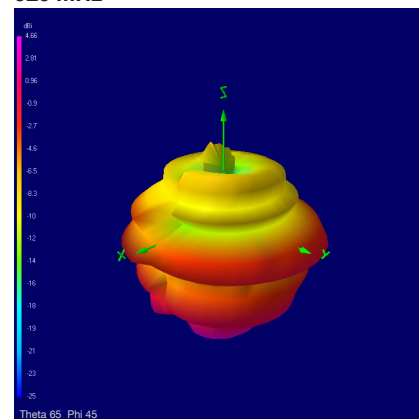
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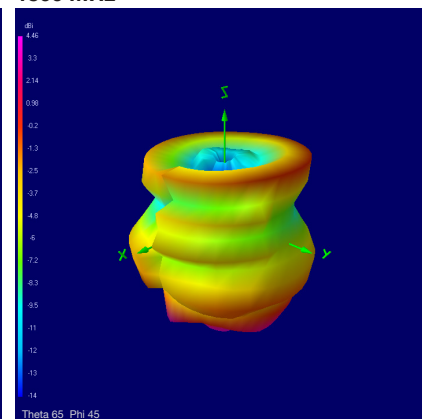
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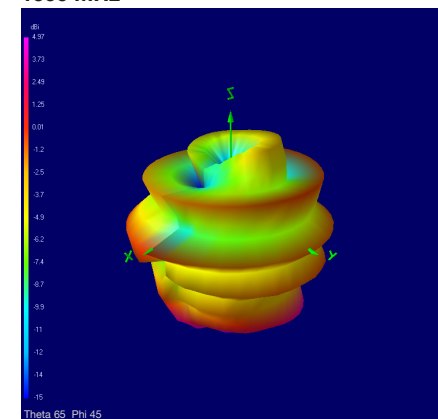
920 MHz



1500 MHz



1600 MHz



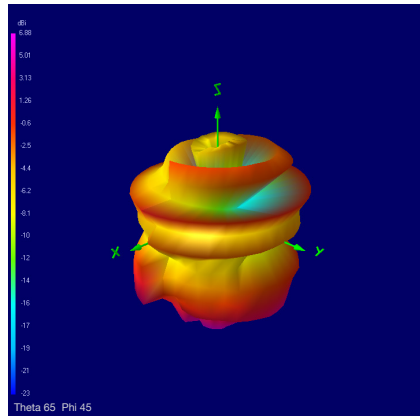


Delta 1D

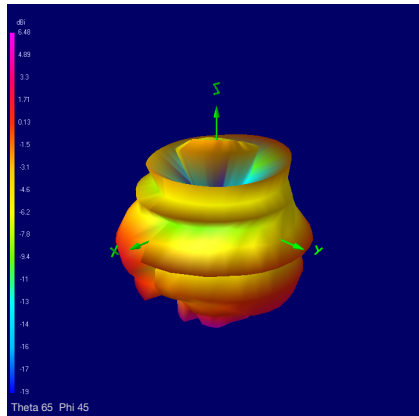
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3D Radiation Plots

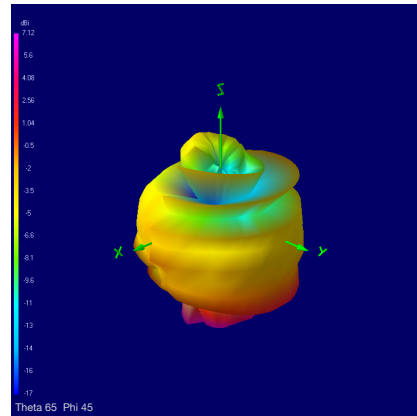
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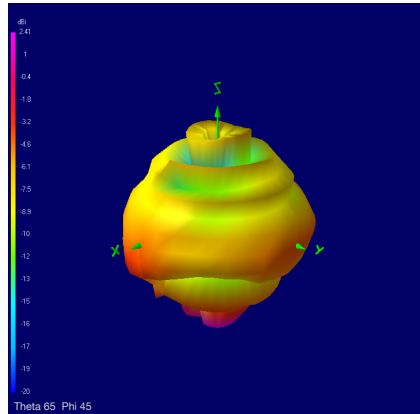
1800 MHz



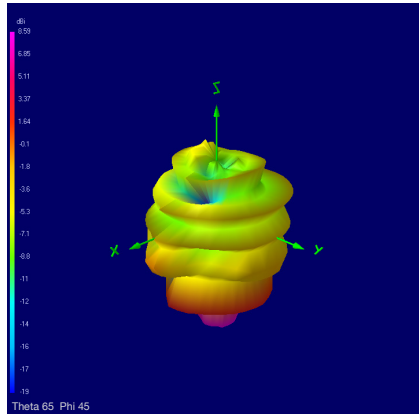
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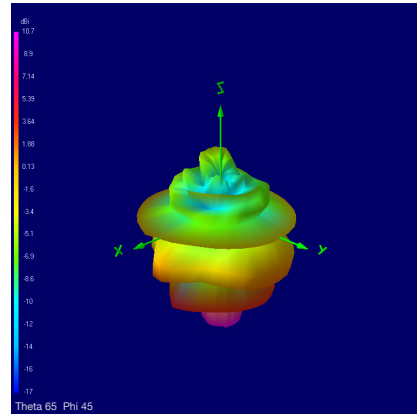
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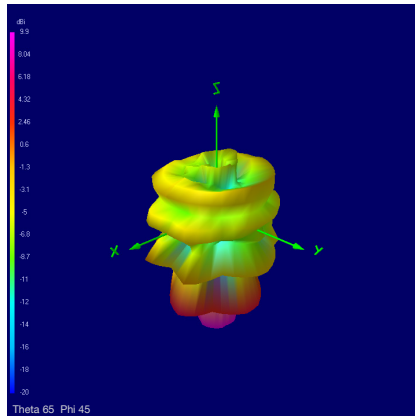
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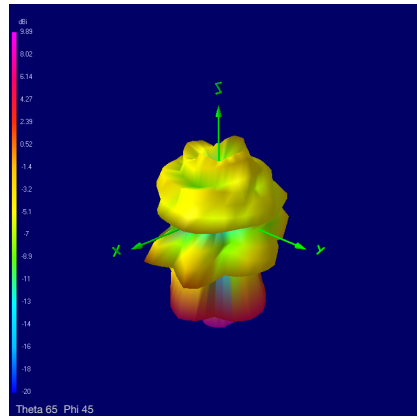
2600 MHz



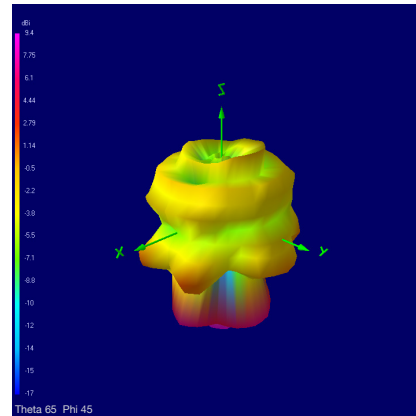
3400 MHz



3500 MHz



3600 MHz



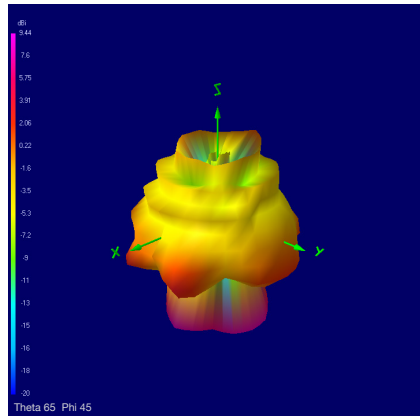


Delta 1D

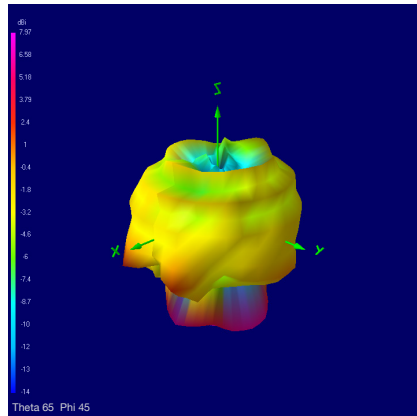
2G/3G/4G/(5G) Stubby Antenna

3D Radiation Plots

3700 MHz



3800 MHz



Ordering Details

Part Number	Description
DELTA1D/X/SMAM/S/S/34	2G/3G/4G/(5G) Stubby Antenna, SMA Male

Registered in England No. 08405712
VAT Registration No. GB163 04 0349



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Rev 2.0