+2dB 'T' Bar GSM Quad Band

Features

- Quad Band Patch Antenna;

    - 824-960MHz

    - 1710-1990 MHz

    - 1900 -2200 MHz

- Active gain: +3dBi

- VSWR <2.0

- 3m RG174 Connecting Lead

- 3M adhesive sticker on Rear

- Ground plane Independent

- Alternative Connectors: FME / TNC / SMA / MMCX

Applications

- Embedded GSM
- Space Saving Applications
- Car Window

Description

A compact PCB Antenna for GSM Cellular applications where high perform-ance is required from a small size. Using the ANT-GSMQB will give optimum range and reliability to your application.
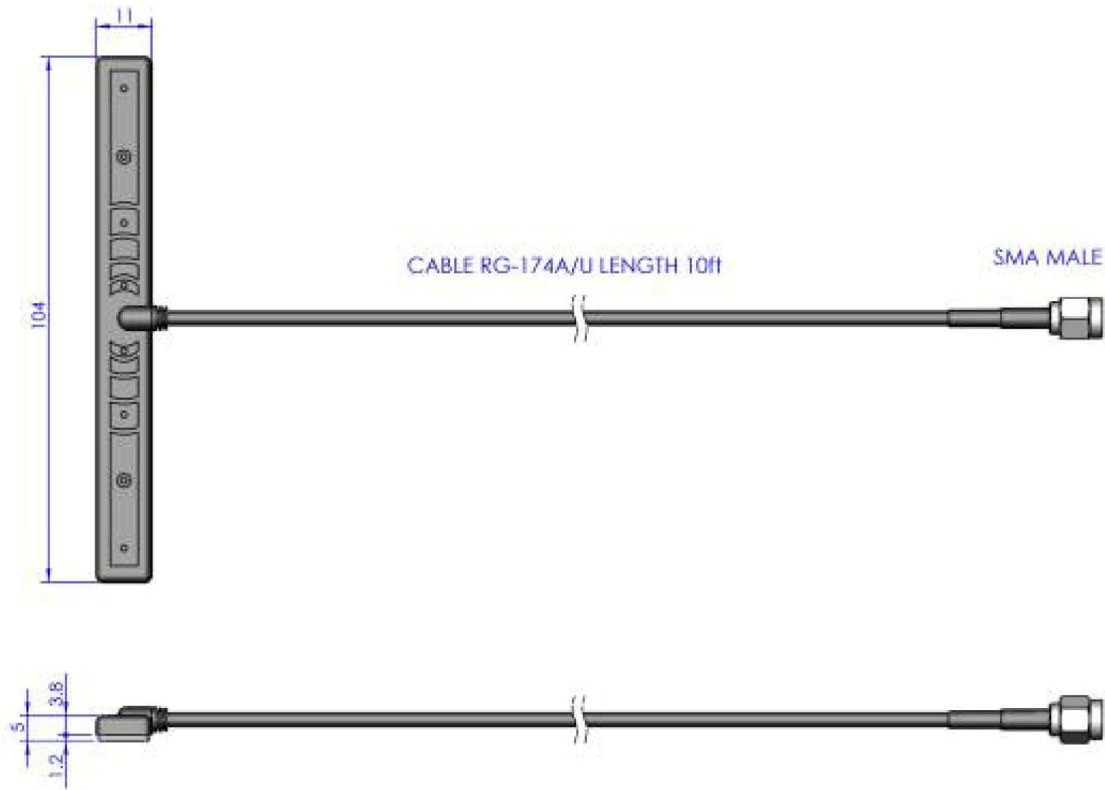
Ordering Information

	Length	Width	Max Height	Cable Length	Connector
ANT-TBAR-SMA	104mm	10mm	3mm	3m	SMA (M)

ANT-TBAR-2

ANT-TBAR Antenna

Mechanical Data SMA Version

CABLE RG-174A/U LENGTH 10ft

SMA MALE

Mechanical Data FME Version

534 ±10.50

500 ±10

34 ±0.05

CABLE RG-174A/U

FME FEMALE

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ANT-TBAR Antenna

Test Performance Data

Measurement Equipment

Vector Network Analyzer: Rohdes Schwarz ZVM

Double Ridged Horn Ant: Trimillenntum Corporation DRH0018-C900

Standard Horn Antenna: Wavepro SG284
                             Wavepro SG187
                             Wavepro SG430

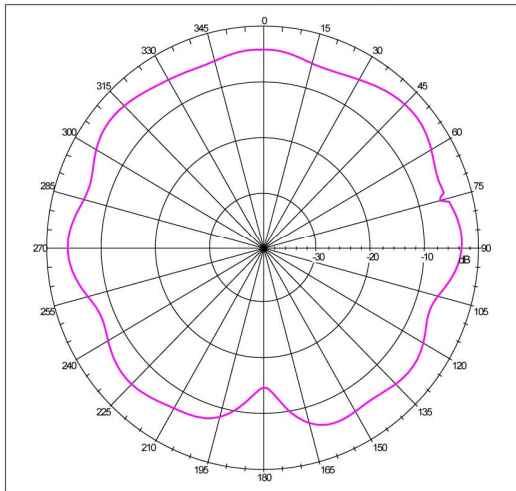Spherical Antenna
Measurement System: Wavepro NSI-700S-90

Measurement Uncertainty
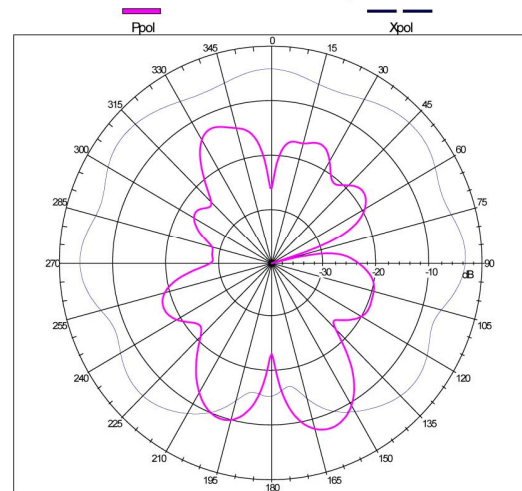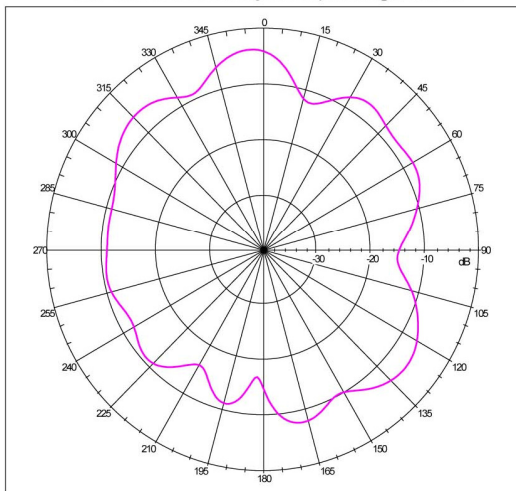The measurement uncertainty is evaluated as 1.412dBi

ANT-TBAR Antenna

Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
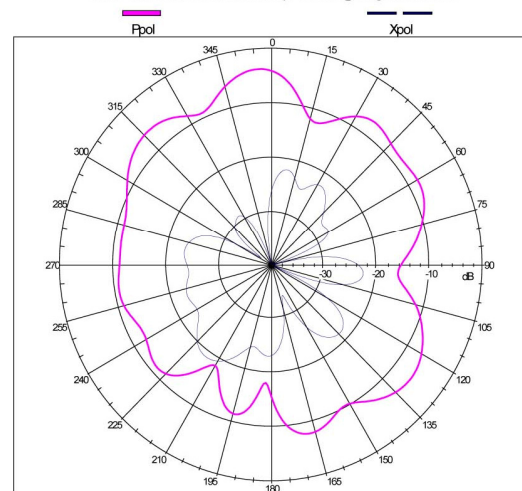Gain=-3.31 dBi; Total Radiating Efficiency: 20.26%@0.84000 GHz

Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
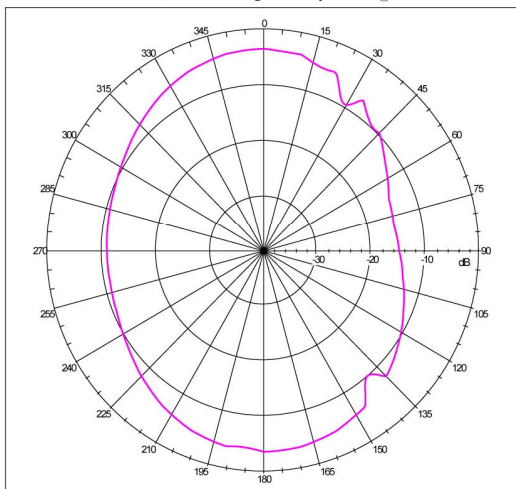Gain=-3.31 dBi; Co-Pol Efficiency: 18.81%@Freq: 0.84000 GHz

Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
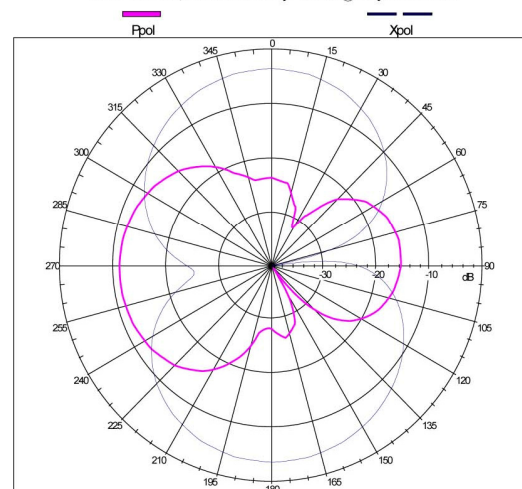Gain=-3.31 dBi; Total Radiating Efficiency: 20.26%@0.84000 GHz

Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81%@Freq: 0.84000 GHz

Far-field Power Distribution on X-Y Plane
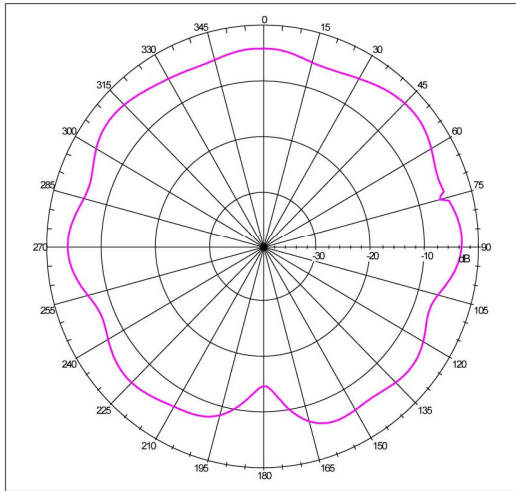Gain=-3.31 dBi; Total Radiating Efficiency: 20.26%@0.84000 GHz

Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
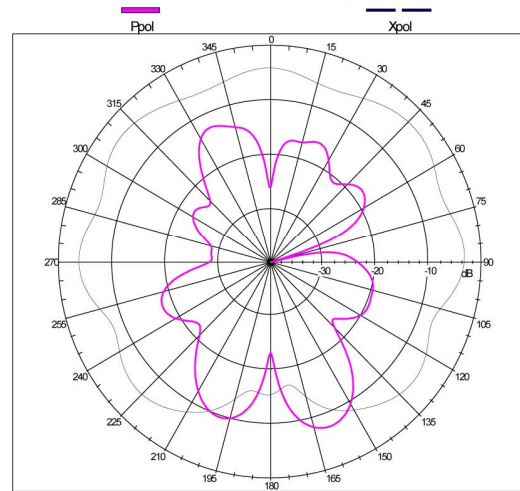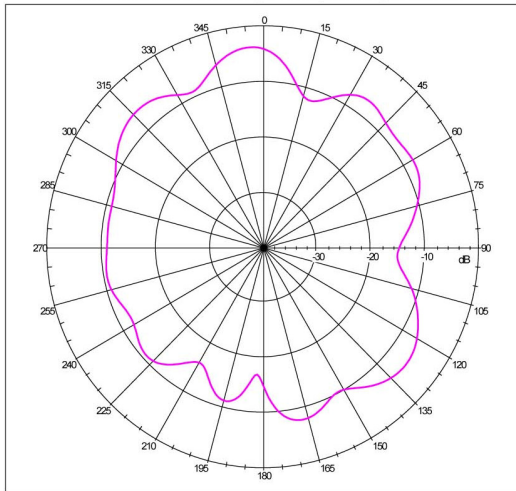Gain=-3.31 dBi; Co-Pol Efficiency: 18.81%@Freq: 0.84000 GHz

ANT-TBAR Antenna

Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
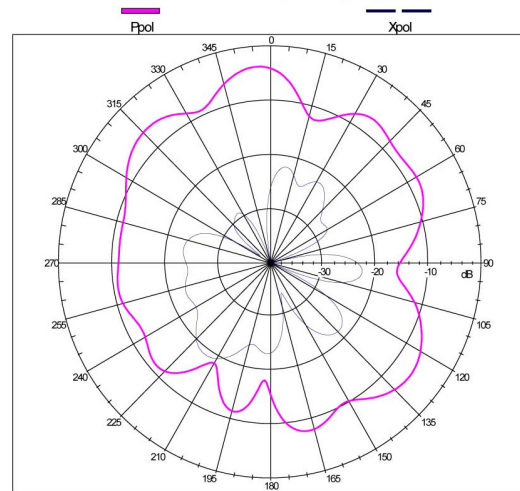Gain=-3.31 dBi; Total Radiating Efficiency: 20.26%@0.84000 GHz

Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
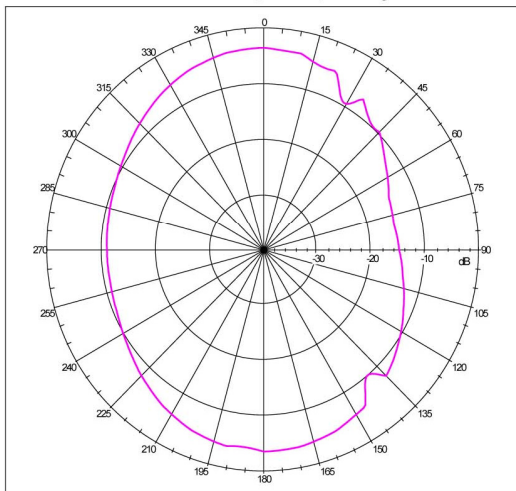Gain=-3.31 dBi; Co-Pol Efficiency: 18.81%@Freq: 0.84000 GHz

Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
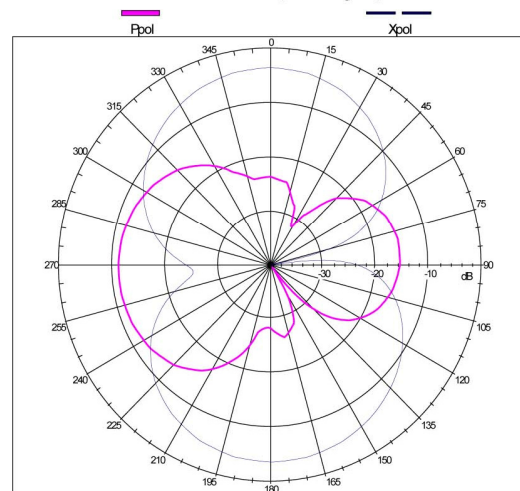Gain=-3.31 dBi; Total Radiating Efficiency: 20.26%@0.84000 GHz

Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81%@Freq: 0.84000 GHz

Far-field Power Distribution on X-Y Plane
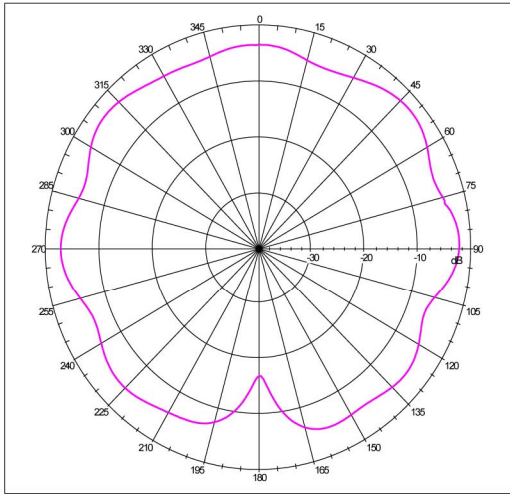Gain=-3.31 dBi; Total Radiating Efficiency: 20.26%@0.84000 GHz

Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
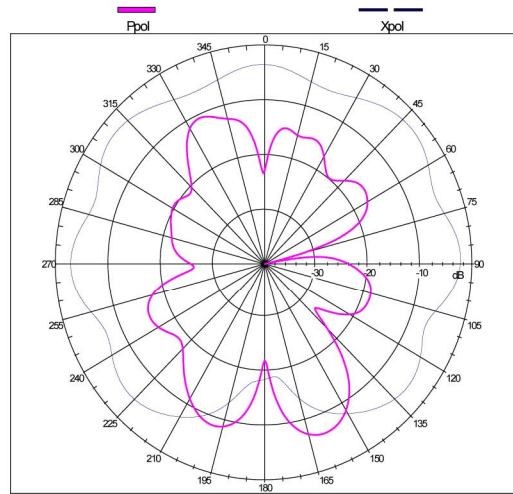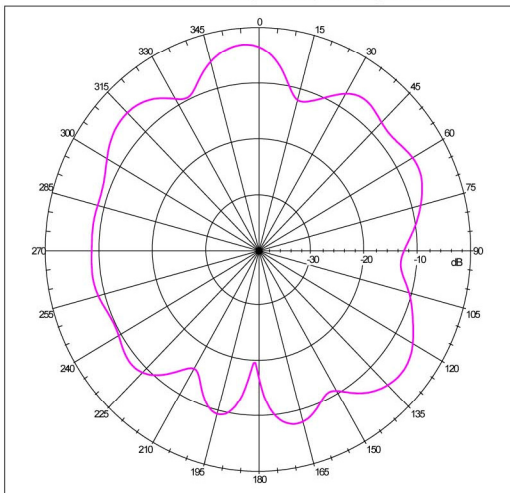Gain=-3.31 dBi; Co-Pol Efficiency: 18.81%@Freq: 0.84000 GHz

ANT-TBAR Antenna

Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
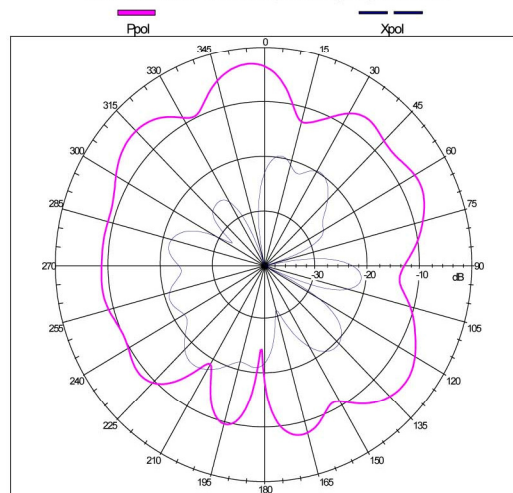Gain=-2.51 dBi; Total Radiating Efficiency: 24.58%@0.84500 GHz

Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
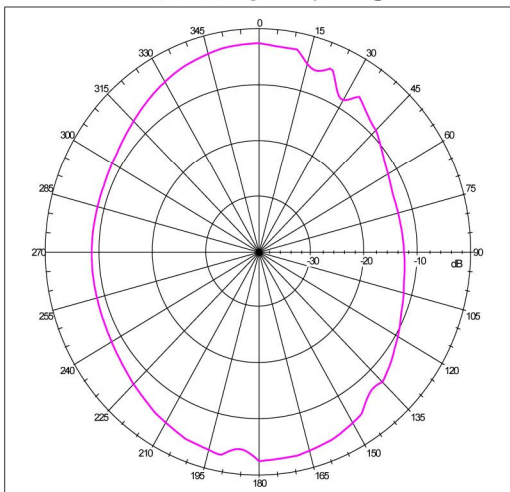Gain=-2.51 dBi; Co-Pol Efficiency: 23.61%@Freq: 0.84500 GHz

Ppol   Xpol

Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-2.51 dBi; Total Radiating Efficiency: 24.58%@0.84500 GHz

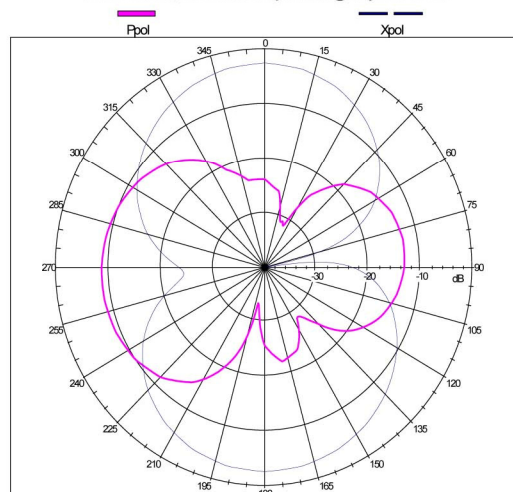### Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-2.51 dBi; Co-Pol Efficiency: 23.61%@Freq: 0.84500 GHz

Ppol   Xpol

Far-field Power Distribution on X-Y Plane
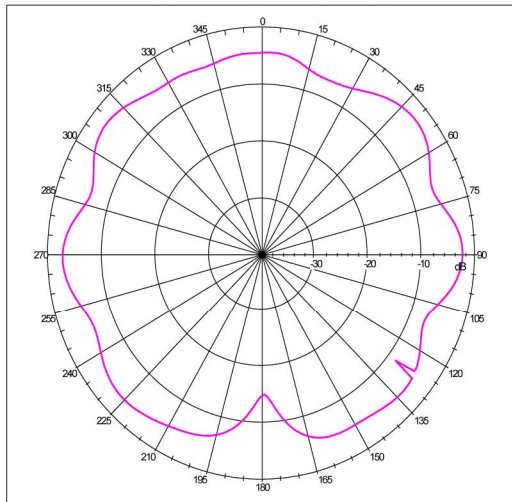Gain=-2.51 dBi; Total Radiating Efficiency: 24.58%@0.84500 GHz

Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-2.51 dBi; Co-Pol Efficiency: 23.61%@Freq: 0.84500 GHz
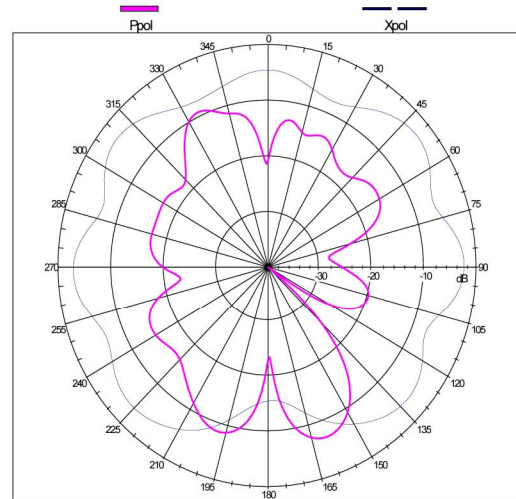
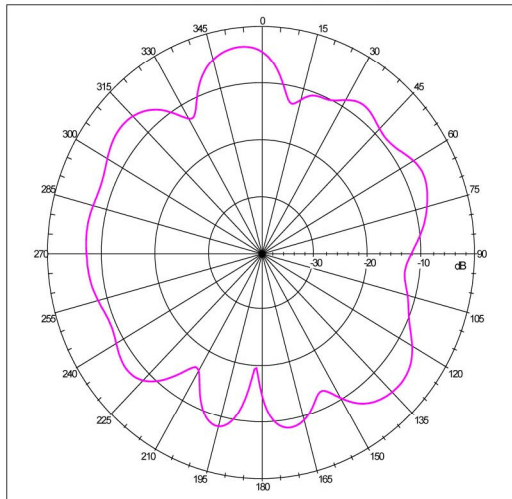Ppol   Xpol

ANT-TBAR Antenna

Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
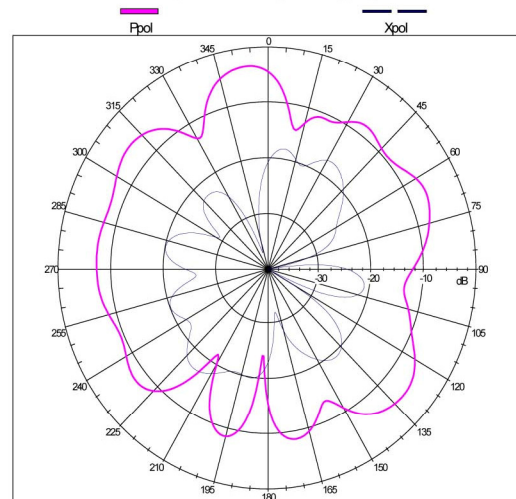Gain=-2.61 dBi; Total Radiating Efficiency: 23.47%@0.85000 GHz

Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-2.61 dBi; Co-Pol Efficiency: 22.43%@Freq: 0.85000 GHz
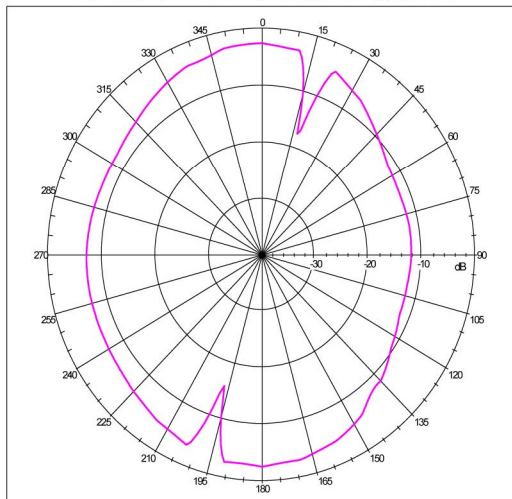
Ppol   Xpol

Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-2.61 dBi; Total Radiating Efficiency: 23.47%@0.85000 GHz

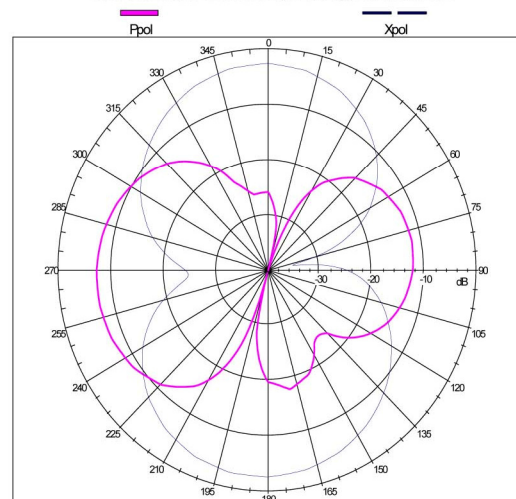**Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)**
Gain=-2.61 dBi; Co-Pol Efficiency: 22.43%@Freq: 0.85000 GHz

Ppol   Xpol

Far-field Power Distribution on X-Y Plane
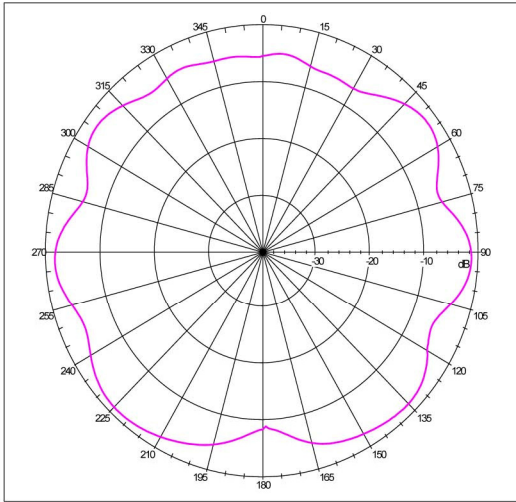Gain=-2.61 dBi; Total Radiating Efficiency: 23.47%@0.85000 GHz

Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
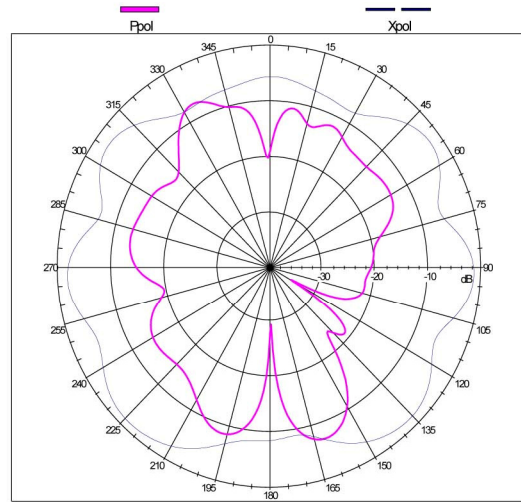Gain=-2.61 dBi; Co-Pol Efficiency: 22.43%@Freq: 0.85000 GHz

Ppol   Xpol

Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-1.33 dBi; Total Radiating Efficiency: 29.83%@0.85500 GHz

Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-1.33 dBi; Co-Pol Efficiency: 26.67%@0.85500 GHz
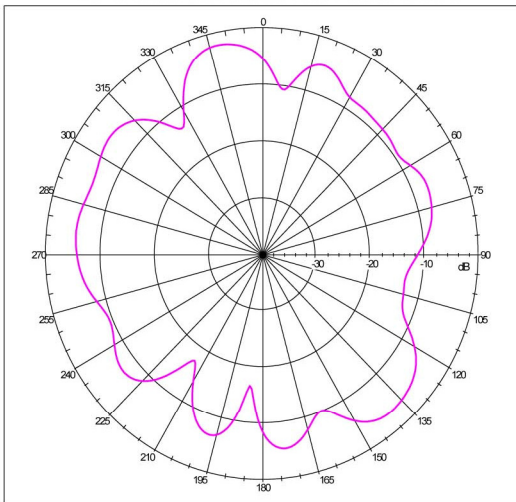
Ppol   Xpol

Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-1.33 dBi; Total Radiating Efficiency: 29.83%@0.85500 GHz

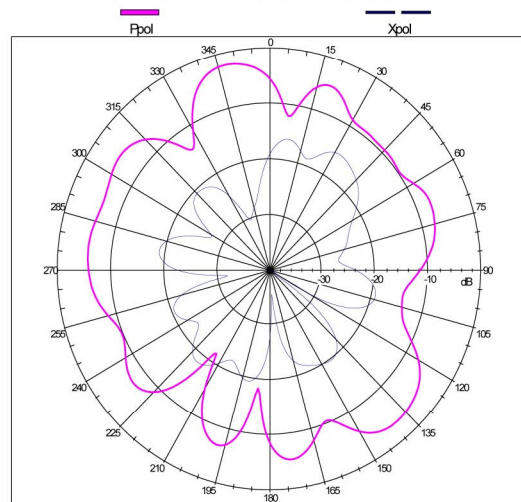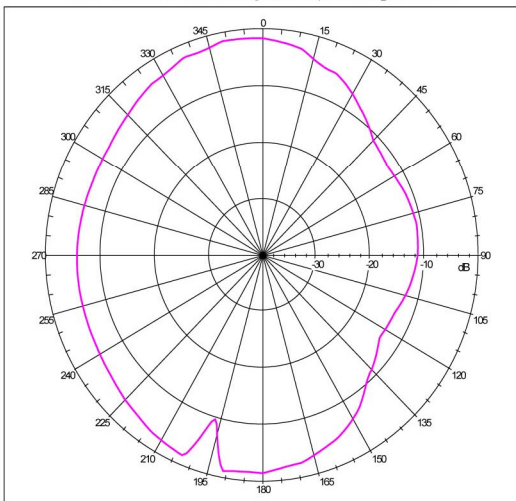**Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)**
Gain=-1.33 dBi; Co-Pol Efficiency: 26.67%@Freq: 0.85500 GHz

Ppol   Xpol

Far-field Power Distribution on X-Y Plane
Gain=-1.33 dBi; Total Radiating Efficiency: 29.83%@0.85500 GHz

Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-1.33 dBi; Co-Pol Efficiency: 26.67%@Freq: 0.85500 GHz

Ppol   Xpol

Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-0.58 dBi; Total Radiating Efficiency: 31.68%@0.86000 GHz

Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-0.58 dBi; Co-Pol Efficiency: 29.35%@Freq: 0.86000 GHz

Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
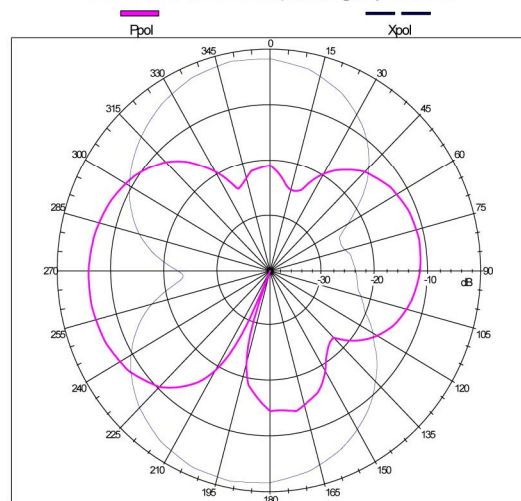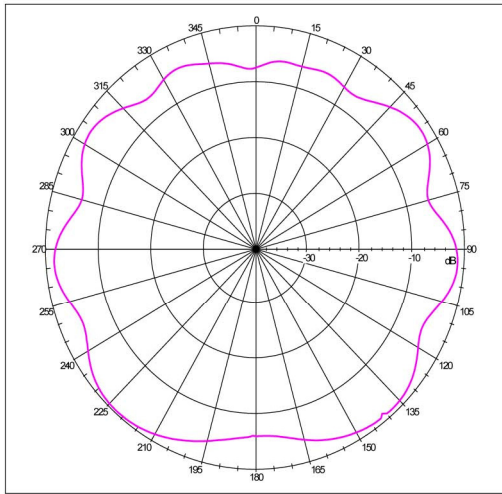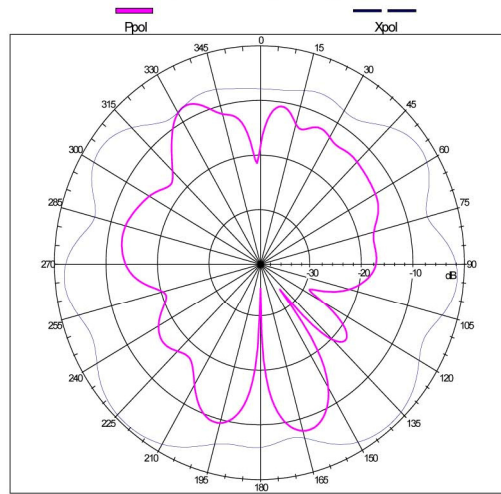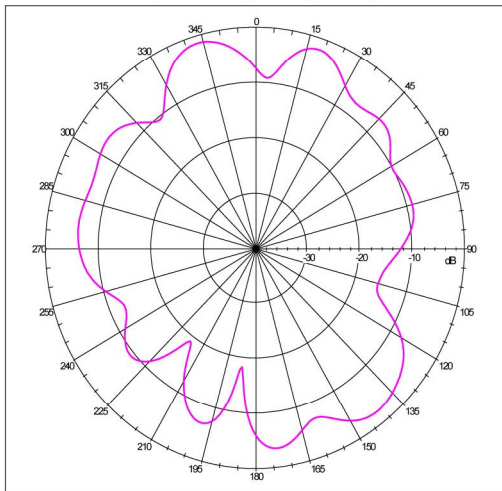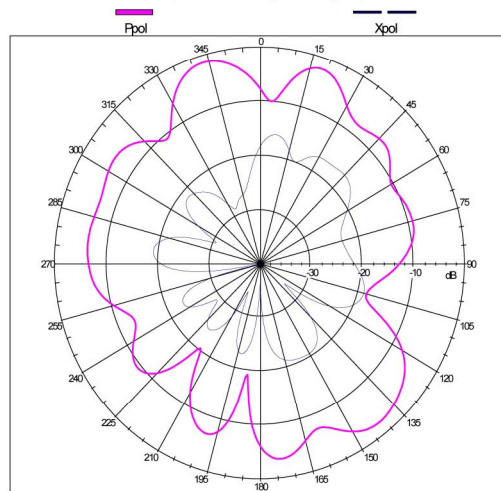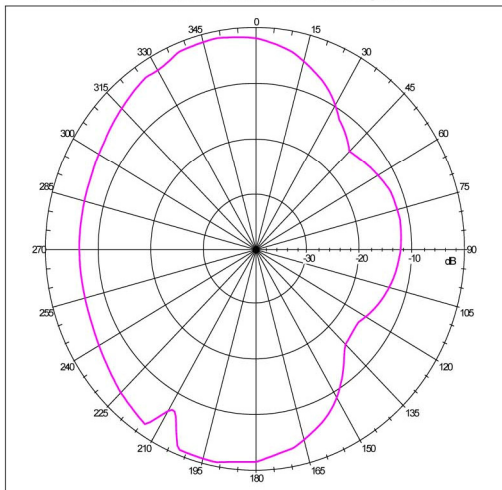Gain=-0.58 dBi; Total Radiating Efficiency: 31.68%@0.86000 GHz
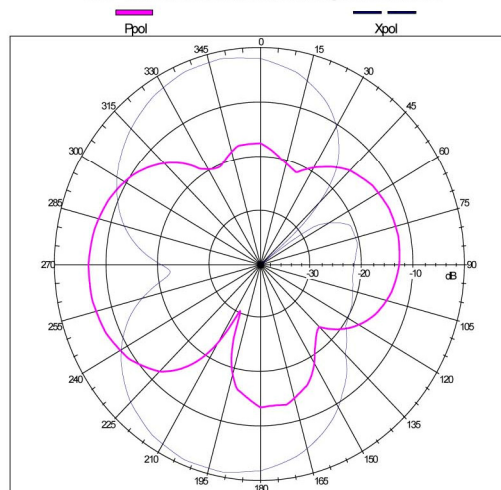
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-0.58 dBi; Co-Pol Efficiency: 29.35%@Freq: 0.86000 GHz

Far-field Power Distribution on X-Y Plane
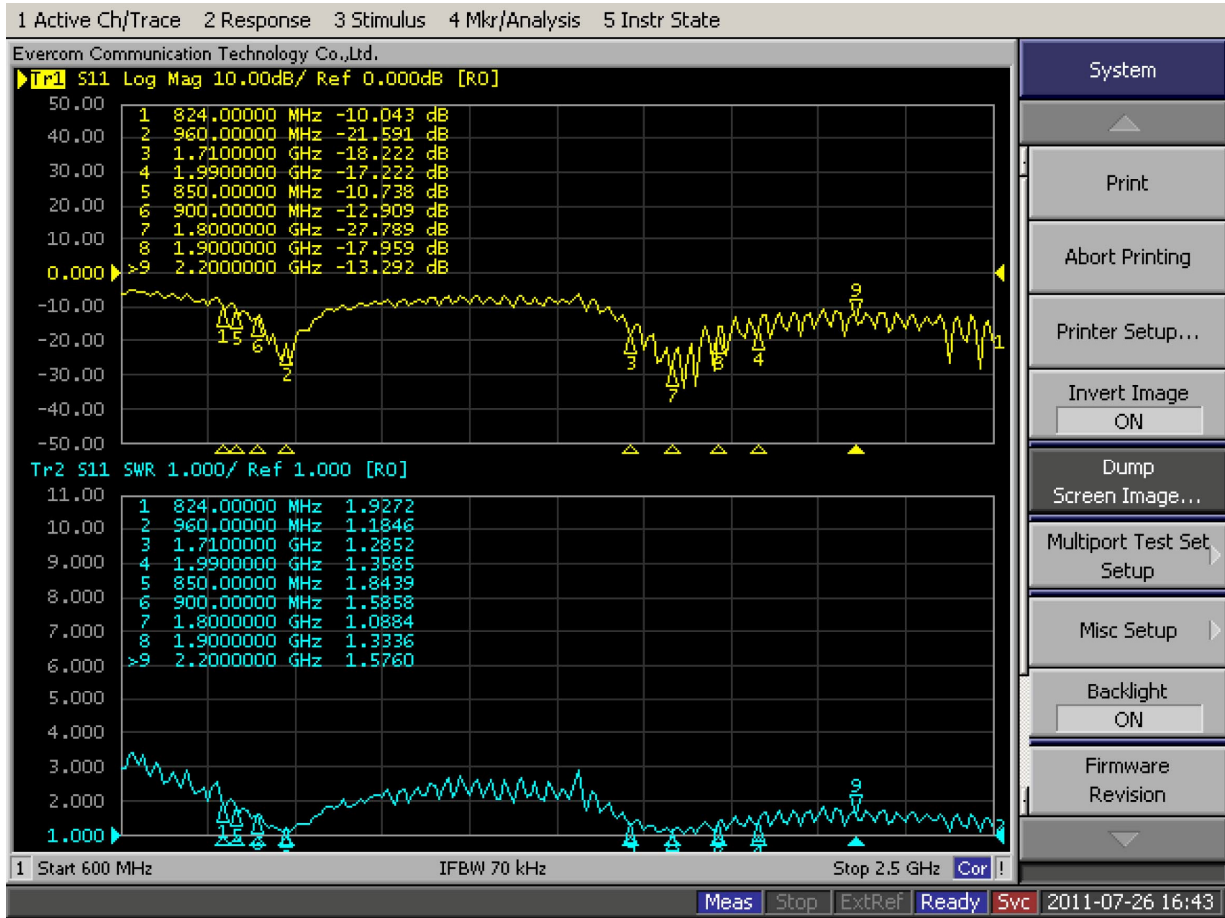Gain=-0.58 dBi; Total Radiating Efficiency: 31.68%@0.86000 GHz

Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-0.58 dBi; Co-Pol Efficiency: 29.35%@Freq: 0.86000 GHz

ANT-TBAR Antenna

Performance Data : VSWR

| 1 Active Ch/Trace | 2 Response | 3 Stimulus | 4 Mkr/Analysis | 5 Instr State |

Evercom Communication Technology Co.,Ltd.

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [RO]

1	824.00000 MHz	-10.043 dB
2	960.00000 MHz	-21.591 dB
3	1.7100000 GHz	-18.222 dB
4	1.9900000 GHz	-17.222 dB
5	850.00000 MHz	-10.738 dB
6	900.00000 MHz	-12.909 dB
7	1.8000000 GHz	-27.789 dB
8	1.9000000 GHz	-17.959 dB
>9	2.2000000 GHz	-13.292 dB

Tr2 S11 SWR 1.000/ Ref 1.000 [RO]

1	824.00000 MHz	1.9272
2	960.00000 MHz	1.1846
3	1.7100000 GHz	1.2852
4	1.9900000 GHz	1.3585
5	850.00000 MHz	1.8439
6	900.00000 MHz	1.5858
7	1.8000000 GHz	1.0884
8	1.9000000 GHz	1.3336
>9	2.2000000 GHz	1.5760

1 Start 600 MHz   IFBW 70 kHz   Stop 2.5 GHz Cor !

System / Print / Abort Printing / Printer Setup... / Invert Image ON / Dump Screen Image... / Multiport Test Set Setup / Misc Setup / Backlight ON / Firmware Revision

Meas | Stop | ExtRef | Ready | Svc | 2011-07-26 16:43

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