

Feature

- ※ High gain
- ※ Omani-directional
- ※ Wide bandwidth

Application

※GSM850/900/DCS/PCS/WCDMA B1/B2/B4/B5/B8

LTE B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/B38/B40/B41(120M)/B66

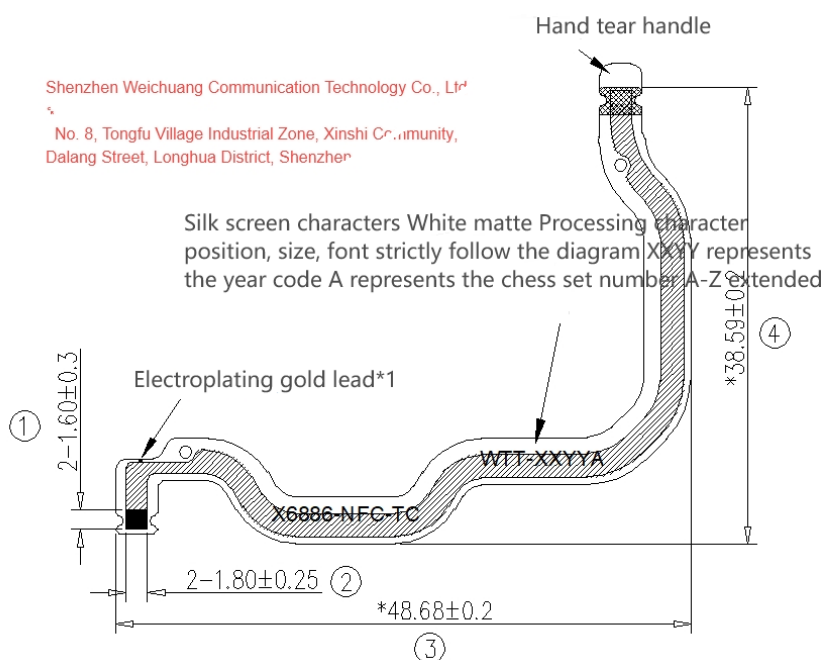
Name and address of the antenna manufacturer	Model number of the antenna
Shenzhen Weichuang Communication Technology Co., Ltd No. 8, Tongfu Village Industrial Zone, Xinshi Community, Dalang Street, Longhua District, Shenzhen	KM7-ANT0 KM7-ANT1 KM7-ANT2 KM7-ANT3 KM7-ANT4 KM7-ANT12 KM7-ANT13 KM7-ANT14

TYPE	
Transmitter Frequency	GSM 850/WCDMA B5/LTE B5: 824 - 849 MHz
	GSM 900/WCDMA B8/LTE B8 : 880 - 915 MHz
	DCS /WCDMA B4/LTE B3/B4/B66 : 1710 - 1785 MHz
	PCS/WCDMA B2/LTE B2:1850-1910MHz
	WCDMA B1/LTE B1 : 1920 - 1980MHz
	LTE B7:2496-2565MHz
	LTE B40 :2300-2400MHz
	LTE B38/B41 :2565-2645MHz
	LTE B20 :832-862MHz
	LTE B12/B17/ B28 :710-755MHz

Receiver Frequency		GSM 850/WCDMA B5/LTE B5 : 869 – 894 MHz
		GSM 900/WCDMA B8/LTE B8 : 925 – 960 MHz
		DCS/LTE B3/B66: 1805 – 1880 MHz
		WCDMA 4/LTE B4 : 2110-2155 MHz
		PCS/WCDMA B2/LTE B2:1930-1990MHz
		WCDMA B1/LTE B1 : 2110 – 2170MHz
		LTE B7:2620-2690MHz
		LTE B40:2300-2400MHz
		LTE B38/41 :2565-2645MHz
		LTE B20:791-821MHz
		LTE B12/B17/ B28 :758-803MHz
RF-Output Power (E.I.R.P)		GSM850/900: 32+/-2dBm
		DCS/PCS: 30+/-2dBm
		LTE B1/B2/B3/ B4/B5 /B7/B8/B12/B17/B20/B28/B38/B40/B41/B66: 23+/-2dBm
		WCDMA B1/B2/B4/B5/ B8: 23+/-2dBm
Antenna Gain	ANT0 (LB-PRX)	GSM 850/WCDMA B5/LTE B5: -5.21dBi
		GSM 900/WCDMA B8/LTE B8: -6.08dBi
		LTE B20 :-5.84dBi
		LTE B12/B17/B28 :-5.41dBi
	ANT1 (MHB-PRX)	DCS /WCDMA B4/LTE B3/B4/B66 :-1.25dBi
		PCS/WCDMA B2/LTE B2: -2.43dBi
		WCDMA B1/LTE B1 : -2.65dBi
		LTE B7/B38/B41 : -0.44dBi
		LTE B40: -1.82dBi
	ANT2 (LB-DRX)	GSM 850/WCDMA B5/LTE B5: -5.79dBidBi
		GSM 900/WCDMA B8/LTE B8: -5.15
		LTE B20 :-4.72dBi
		LTE B12/B17/B28A :-5.98dBi
		LTE B28B :-6.15dBi
	ANT3 (MHB-DRX)	DCS/LTE B3 : -3.99dBi
		PCS/WCDMA B2/LTE B2: -1.78dBi
		WCDMA B1/LTE B1 : -1.93dBi
		WCDMA B4 /B4/B66:-7.93dBi

		LTE B7/B38/B41 : -0.95dBi
		LTE B40: -1.53dBi
	ANT12	GPS(L1): -1.39dBi
	ANT13	WIFI 2.4G: -1.59 dBi
	ANT14	BT/WIFI 2.4G: -1.43dBi 5G: -1.39dBi

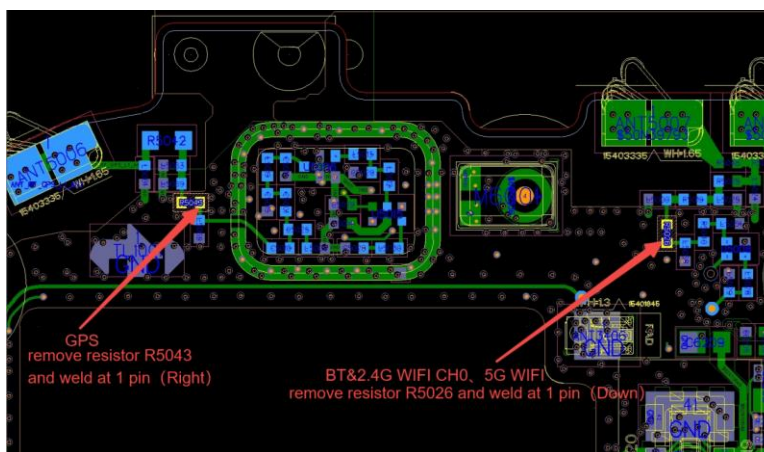
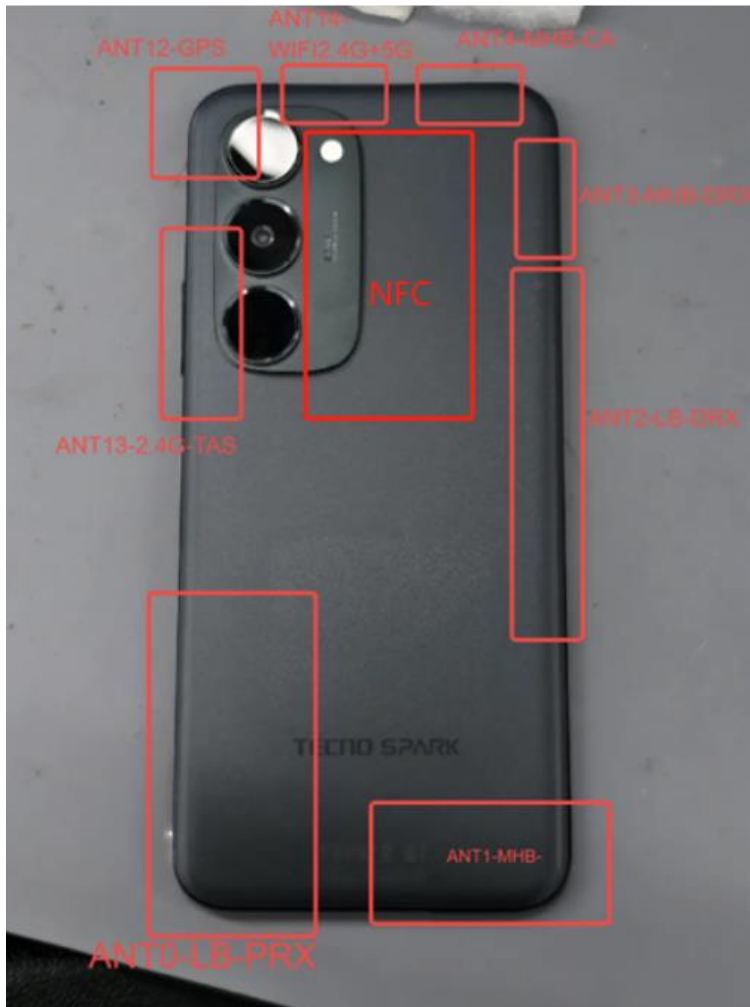
NFC Dimensions

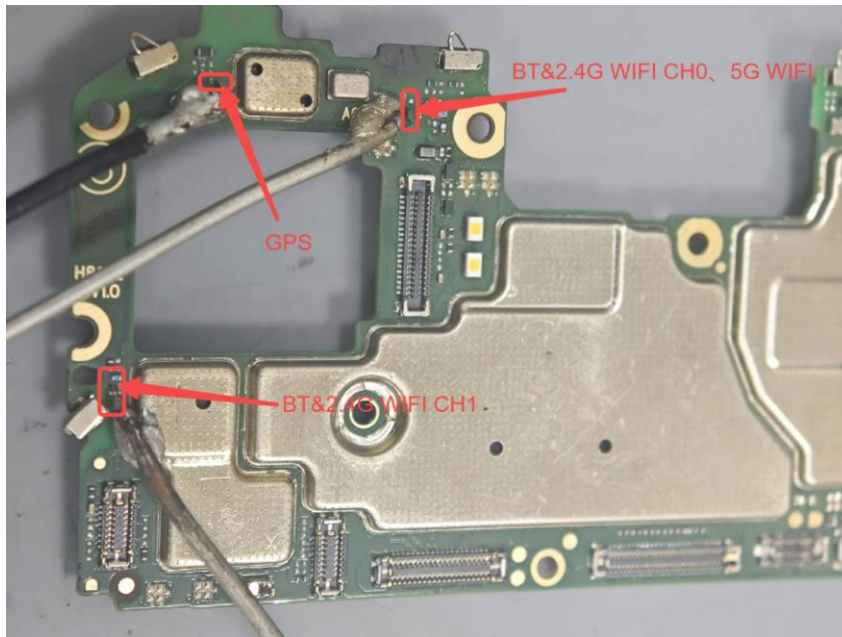
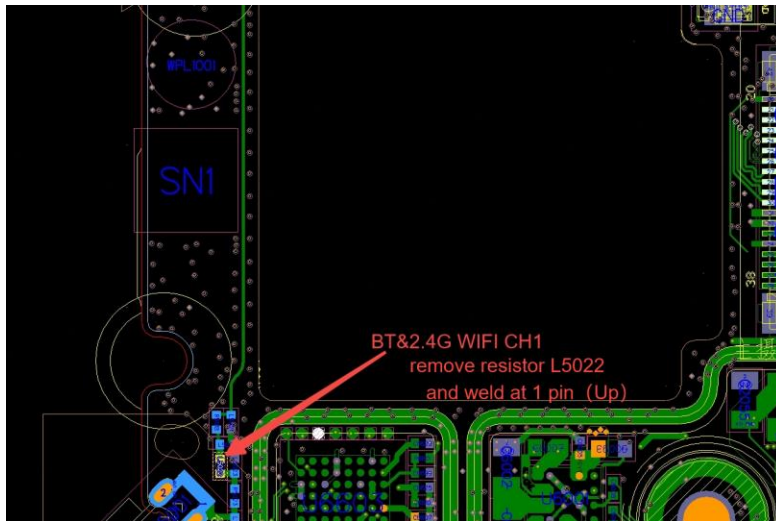


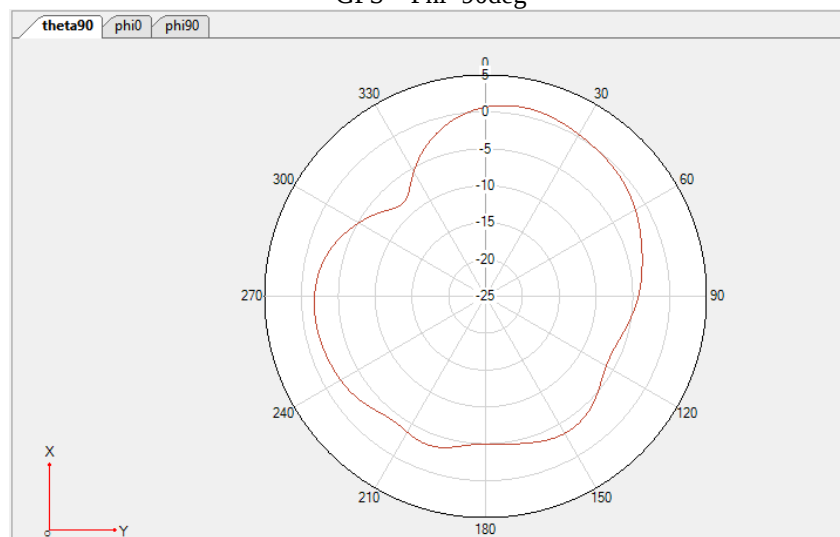
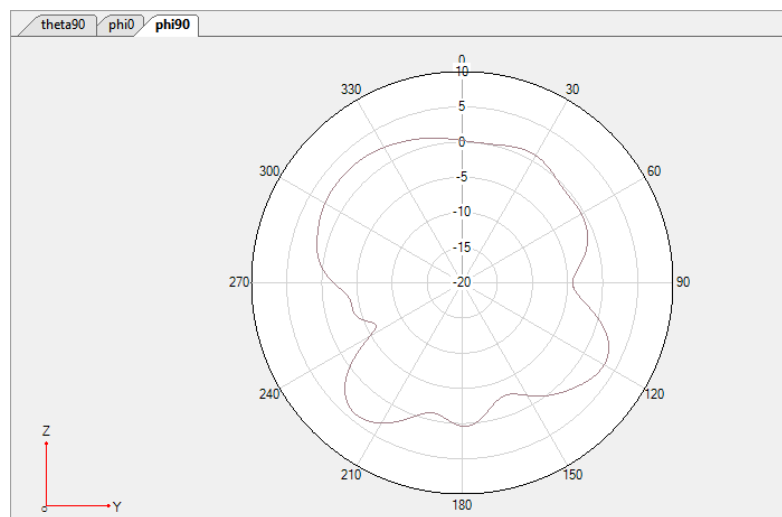
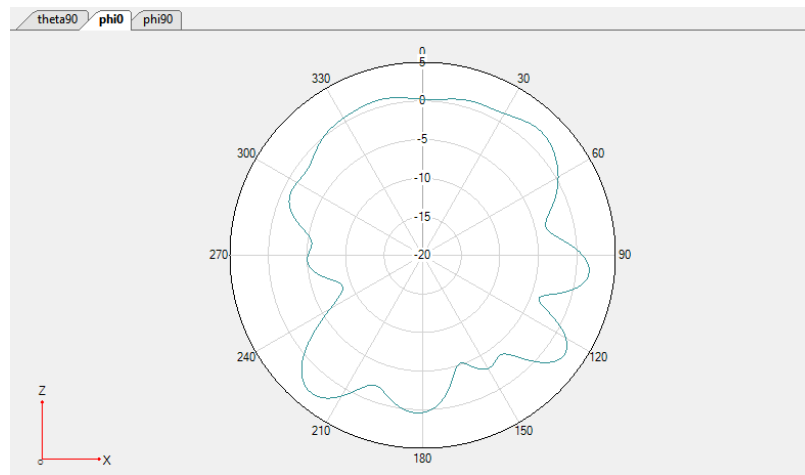
Wireless reverse charging test data

1. Operating frequency: 115K-148K
2. Coil model: 88.72mm*53.8mm*0.28mm
3. Coil saturation current: 4.5A
4. Maximum reverse transmission power: 5W
5. Charging communication interaction mode: ASK&FSK
6. Usage scenario: Turn on the reverse charging switch to charge another device (support wireless charging function)
7. The entire product CAD model and size;
8. Main material parameters of the product model (such as dielectric constant and magnetic permeability of ferrite, shell, main plate, etc.)
Nanocrystalline: magnetic permeability 1700±10%
FPC: copper thickness 35um
Coil: outer diameter 43mm, inner diameter 21mm, wire thickness 0.19mm

Ant Position



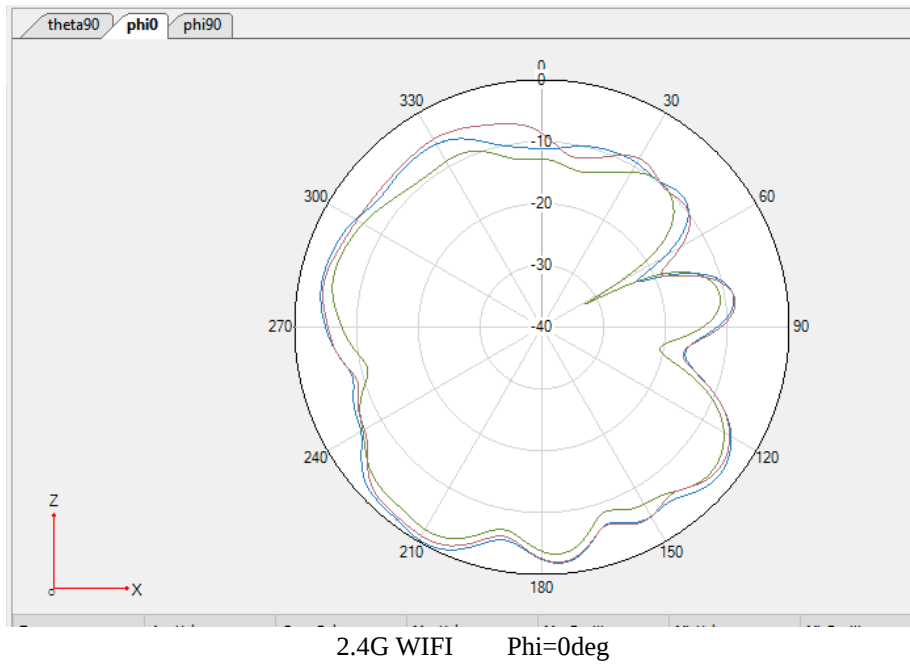


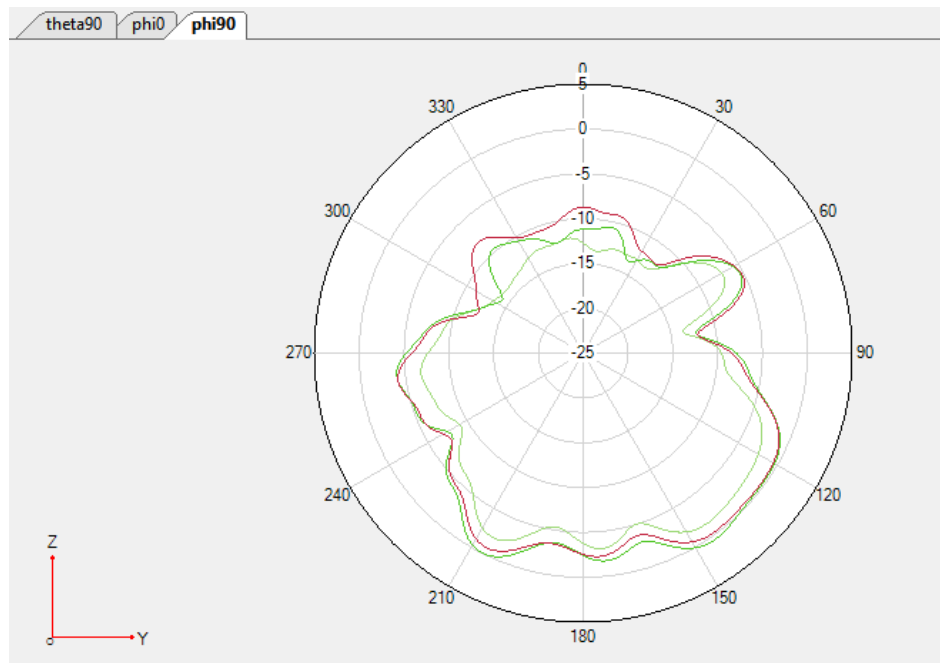


GPS Theta=90deg

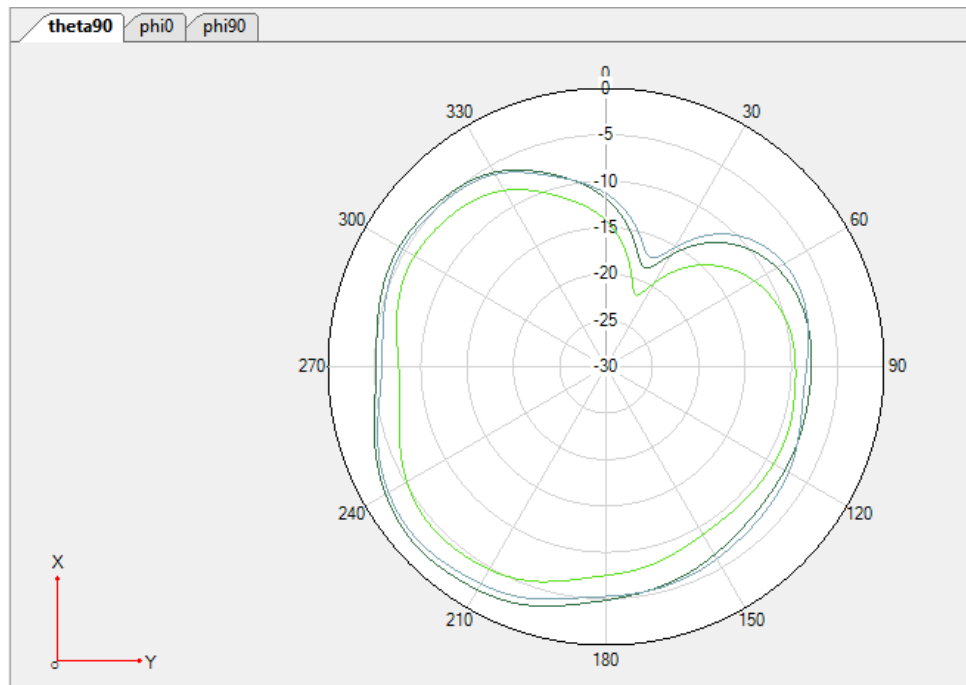
※ Antenna Gain

ANT13





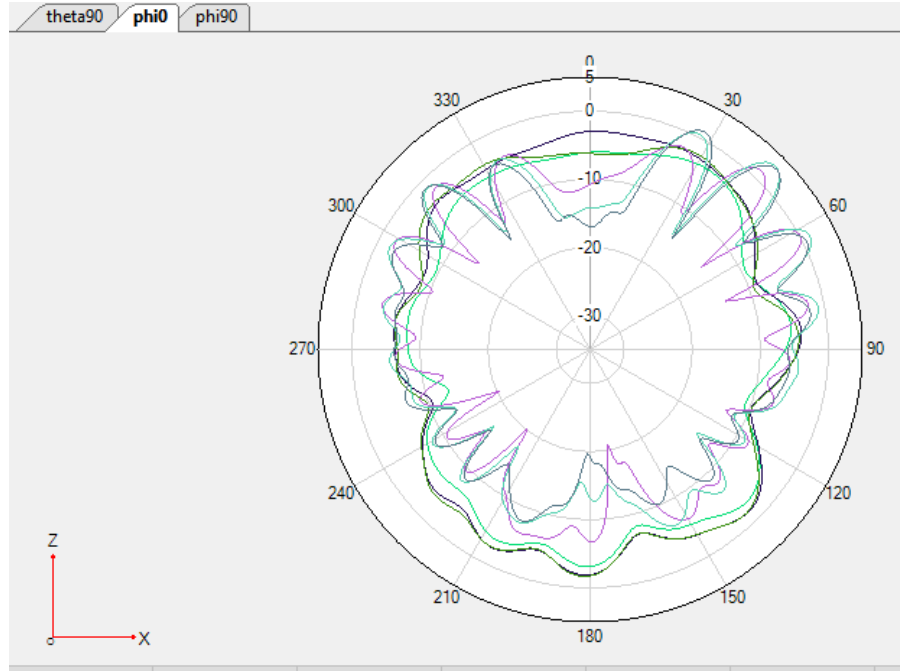
2.4G WIFI $\Phi = 90^\circ$



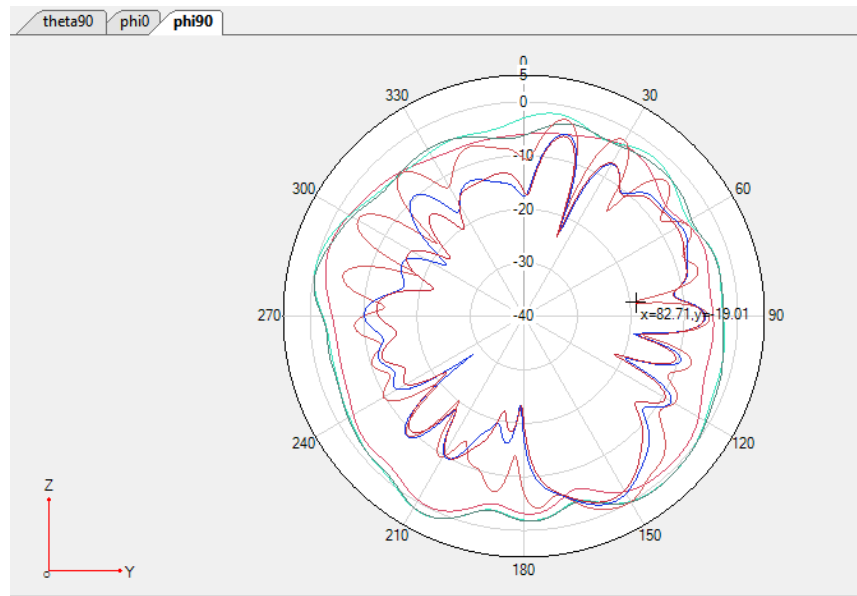
2.4G WIFI $\Theta = 90^\circ$

※ Antenna Gain

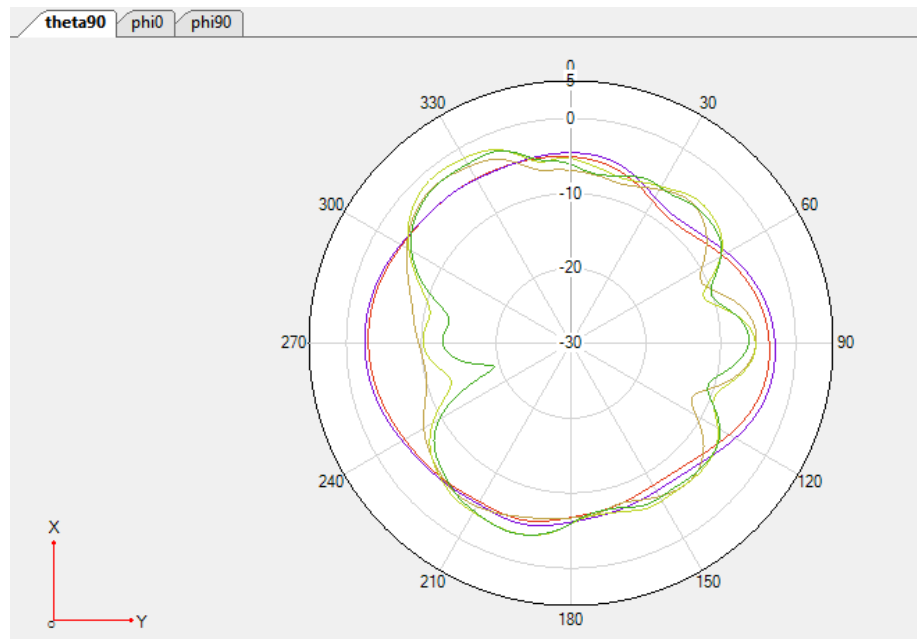
ANT14



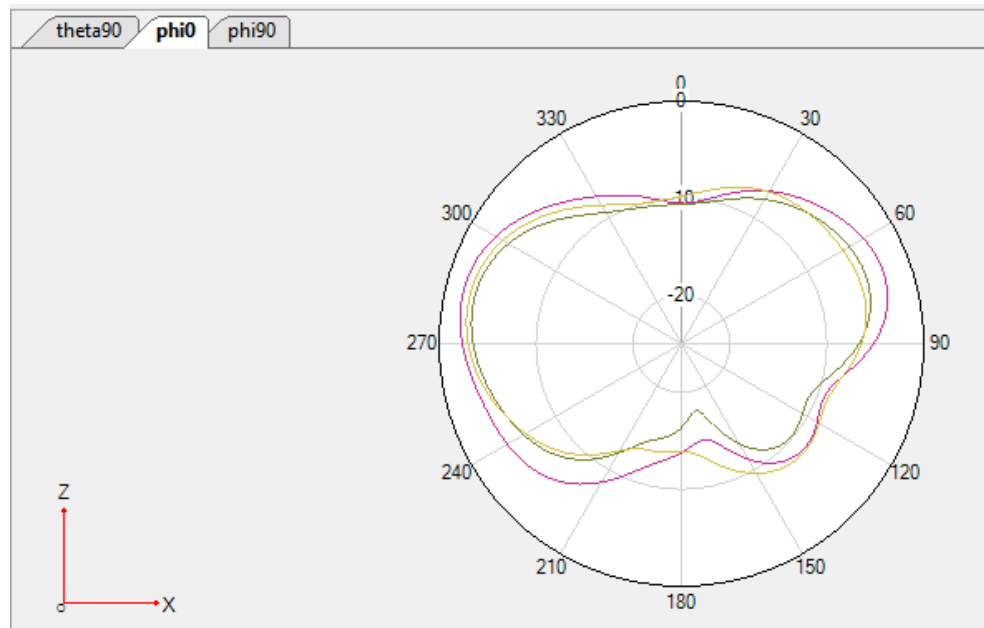
Phi=0deg

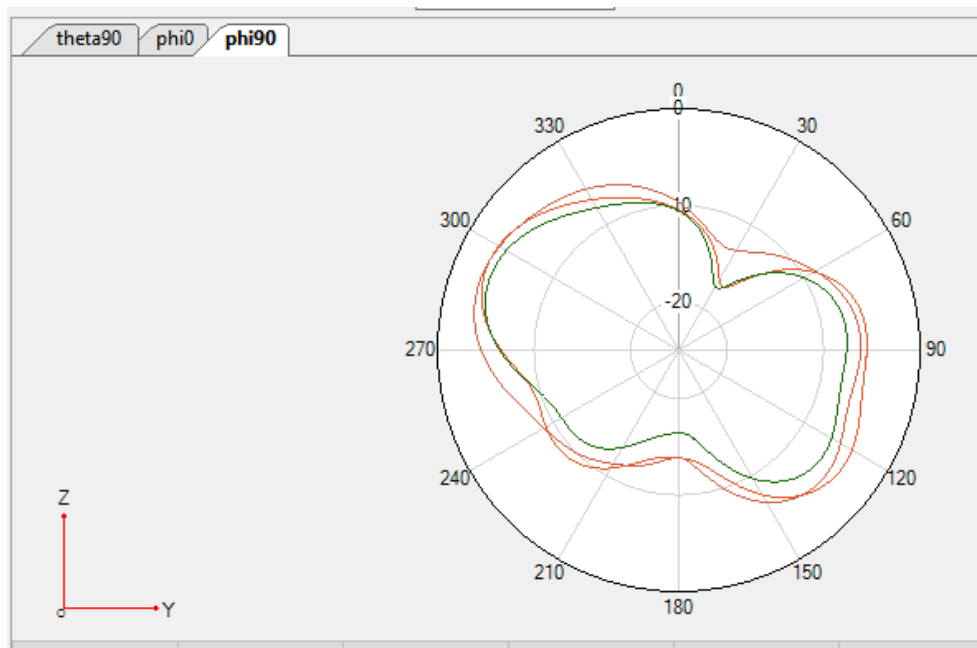


Phi=90deg

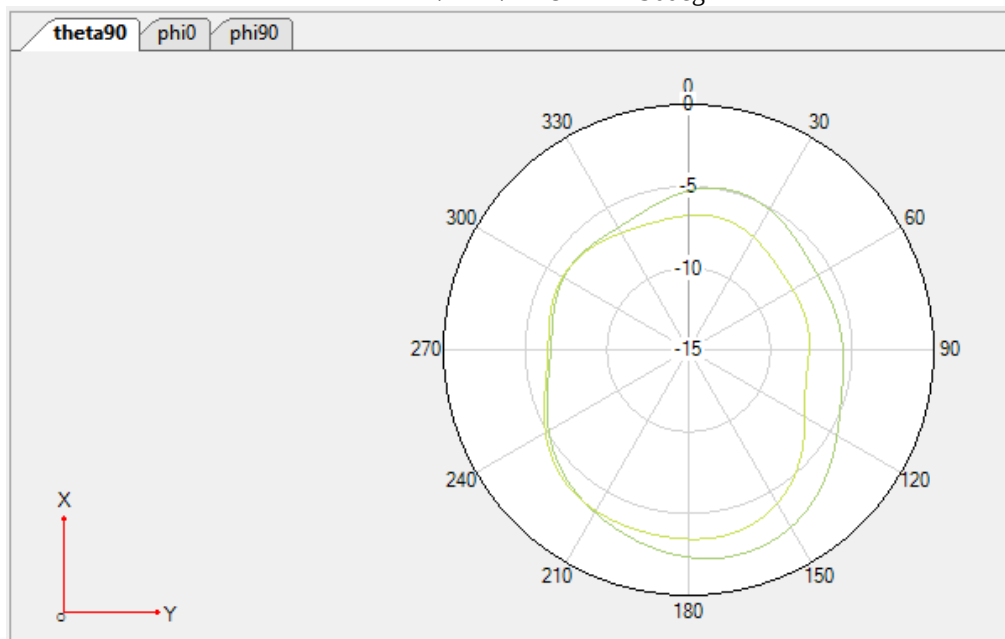


※ Antenna Gain
ANT0





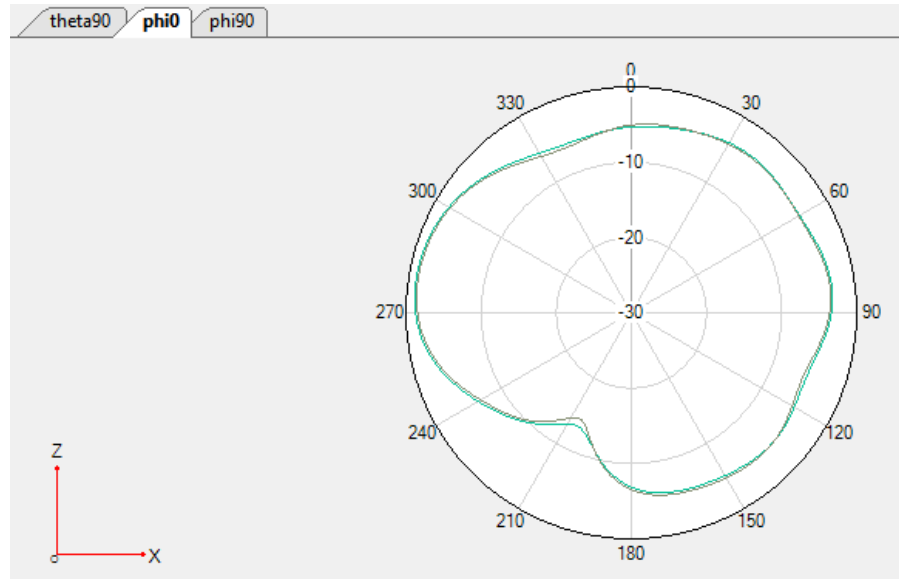
LTE B12/B17/ B28 Phi=90deg



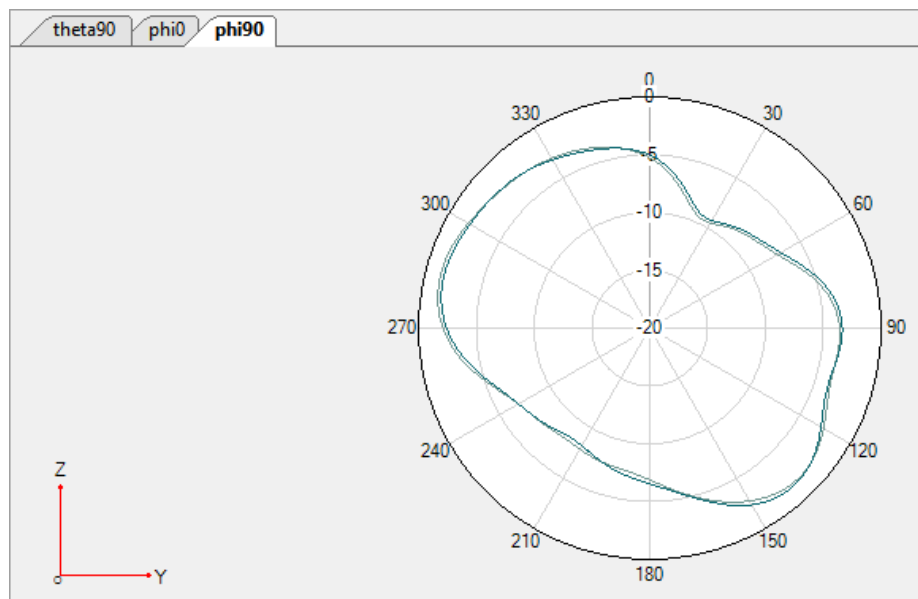
LTE B12/B17/ B28 Theta=90deg

※ Antenna Gain

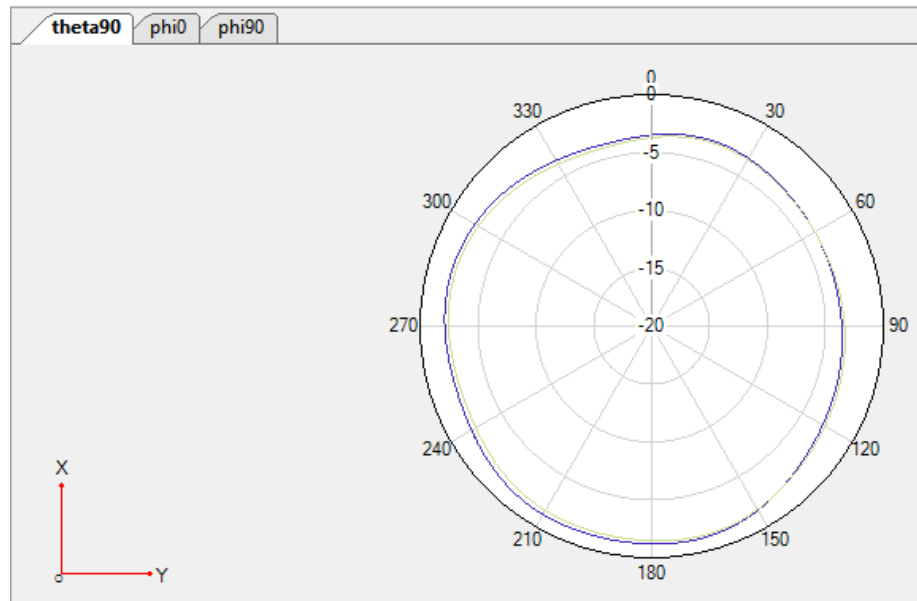
ANT0



LTE B20 $\Phi=0^\circ$



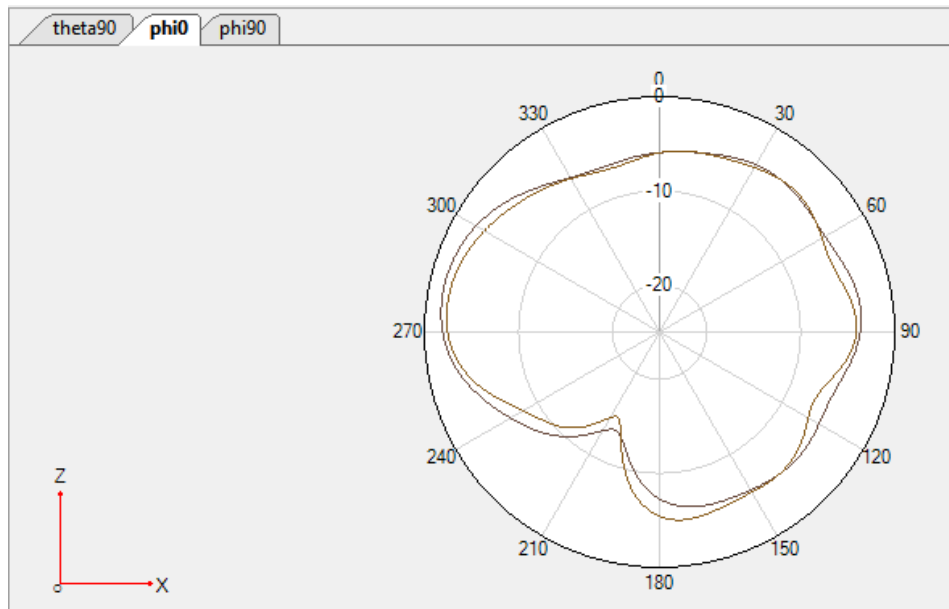
LTE B20 $\Phi=90^\circ$



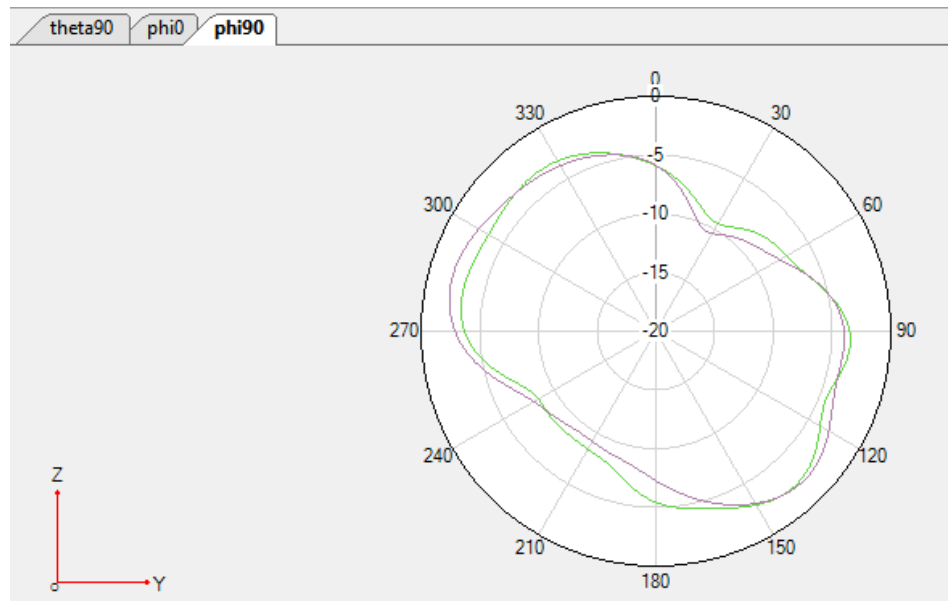
LTE B20 Theta=90deg

※ Antenna Gain

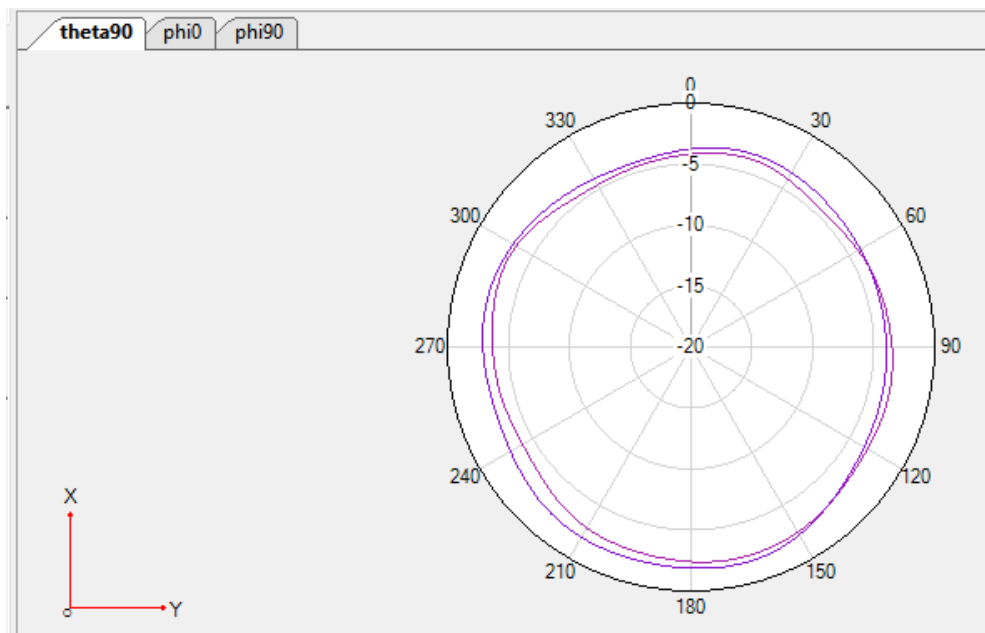
ANT0



GSM850/WCDMA B5/LTE B5 Phi=0deg



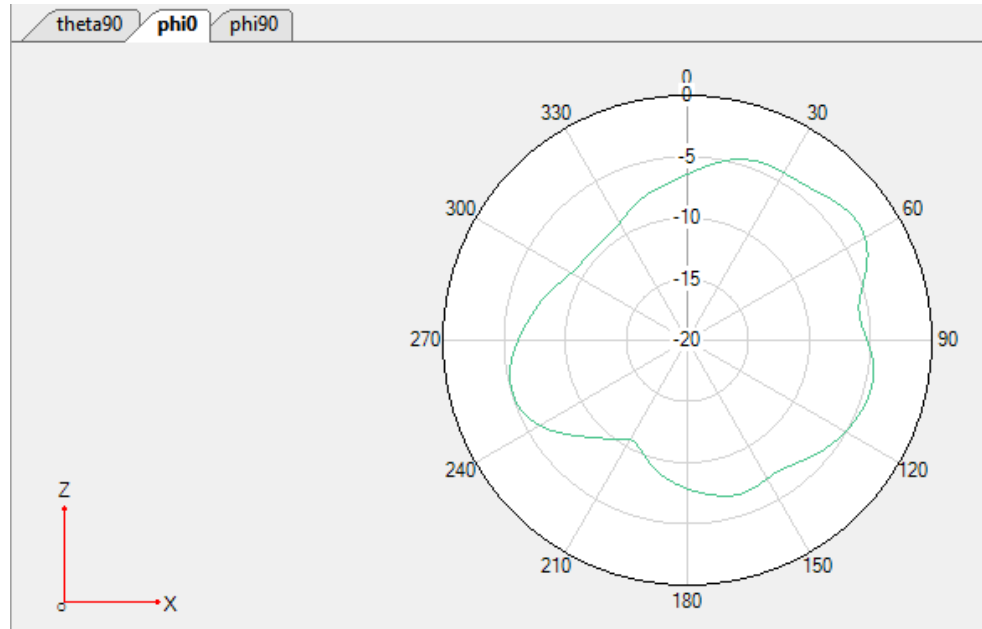
GSM850/WCDMA B5/LTE B5 Phi=90deg



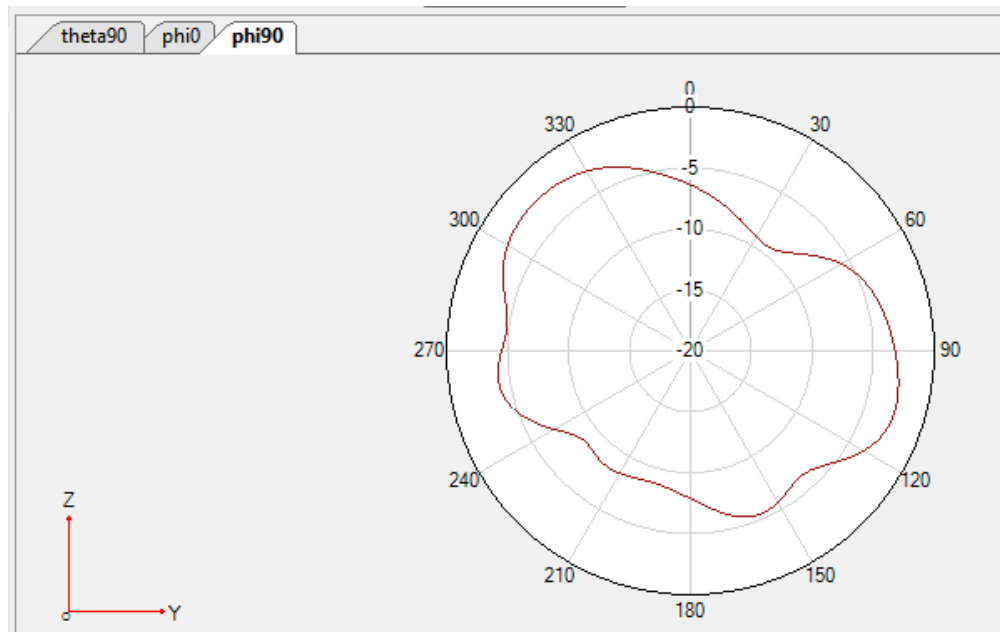
GSM850/WCDMA B5/LTE B5 Theta=90deg

※ Antenna Gain

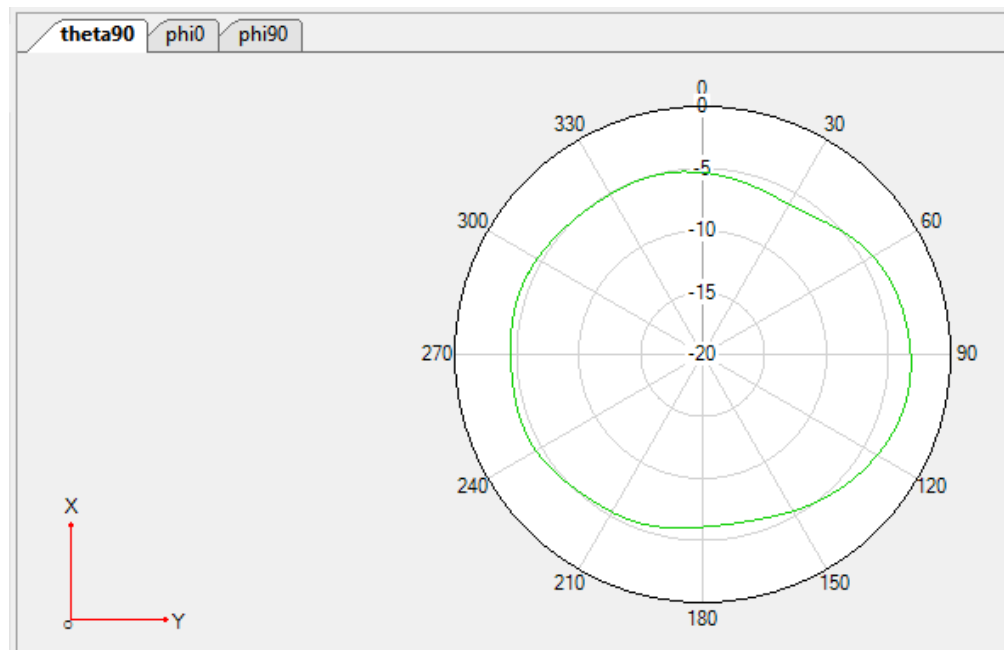
ANT0



GSM900/WCDMA B8/LTE B8 Phi=0deg



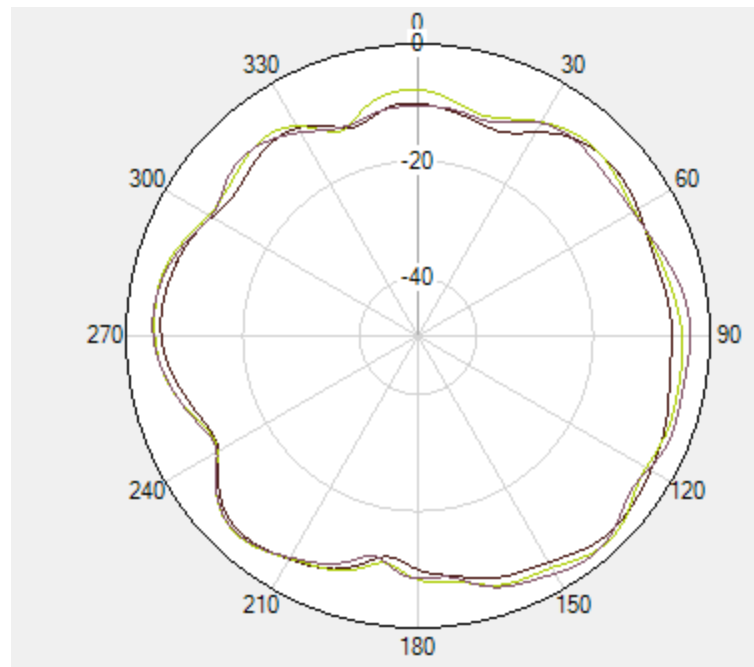
GSM900/WCDMA B8/LTE B8 Phi=90deg



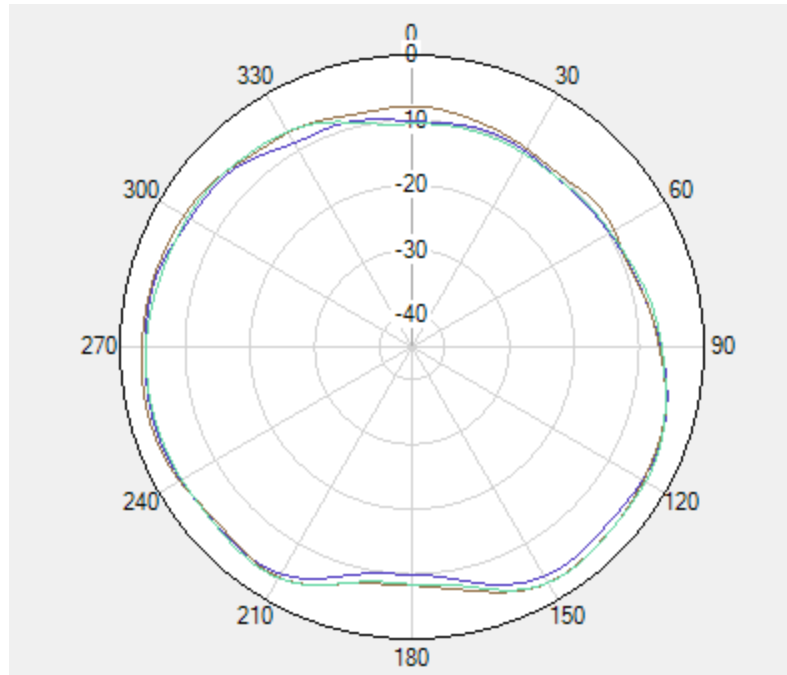
GSM900/WCDMA B8/LTE B8 Theta=90deg

※ Antenna Gain

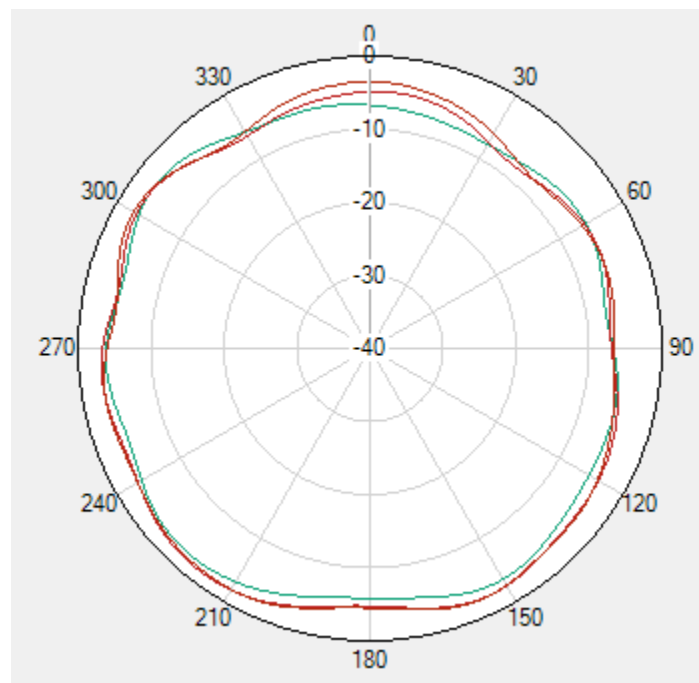
ANT1



LTE B7/B38/B41 Phi=0deg



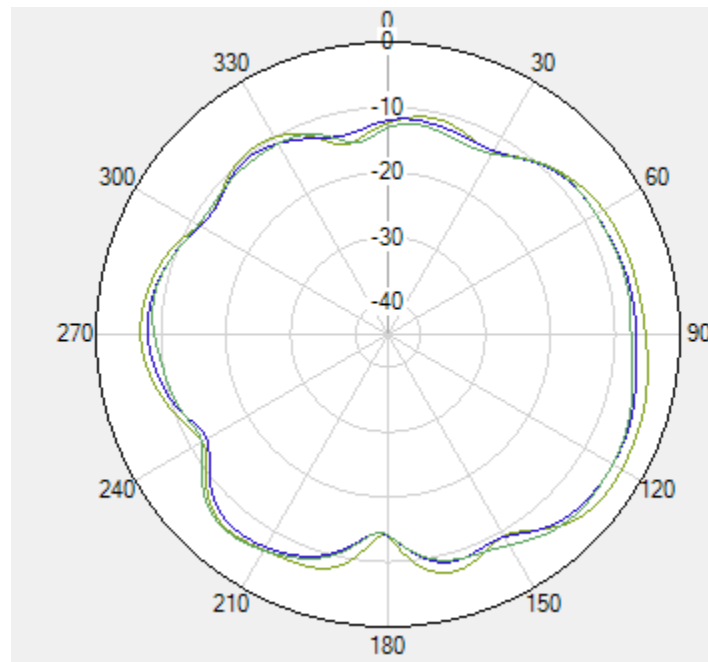
LTE B7/B38/B41 $\Phi=90^\circ$



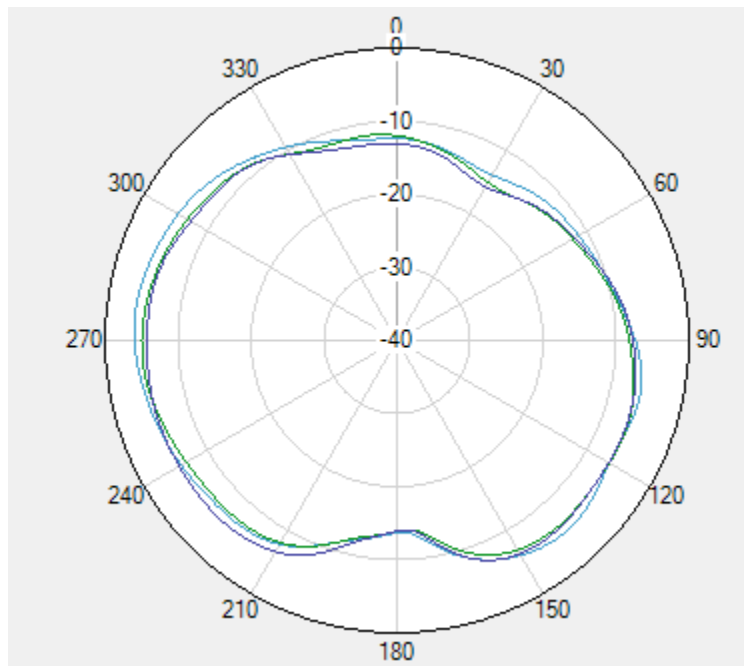
LTE B7/B38/B41 $\Theta=90^\circ$

※ Antenna Gain

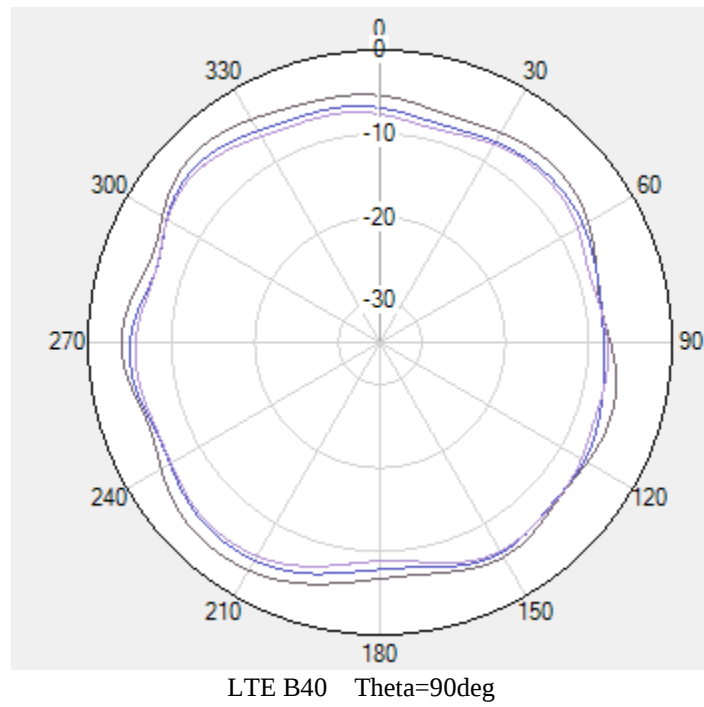
ANT1



LTE B40 Phi=0deg

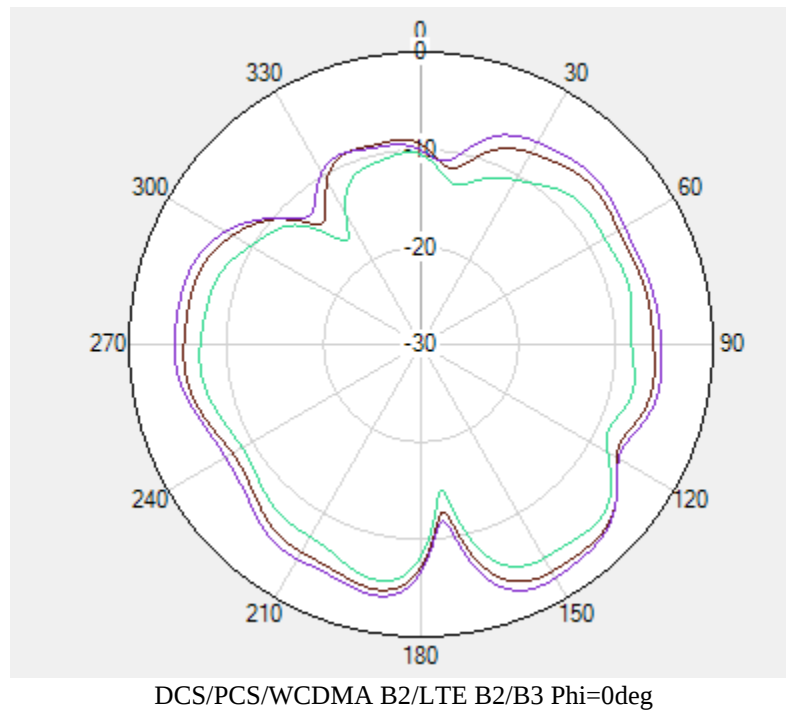


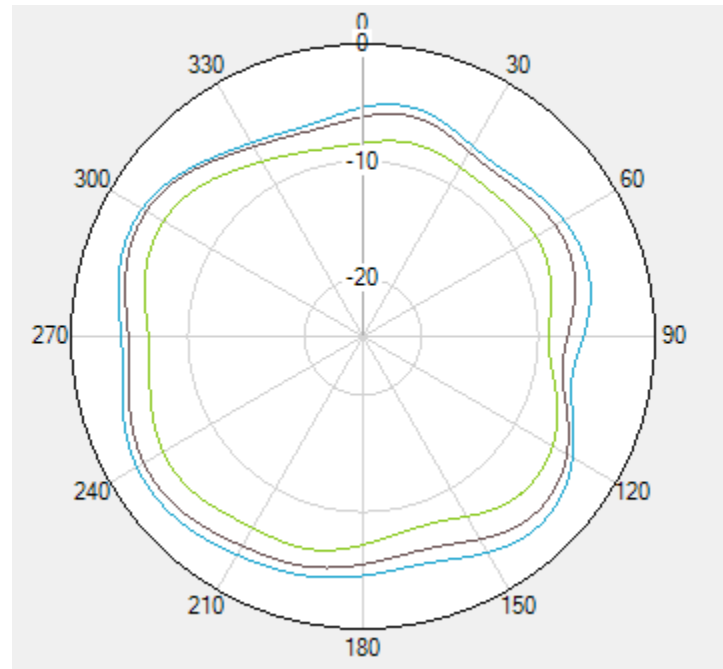
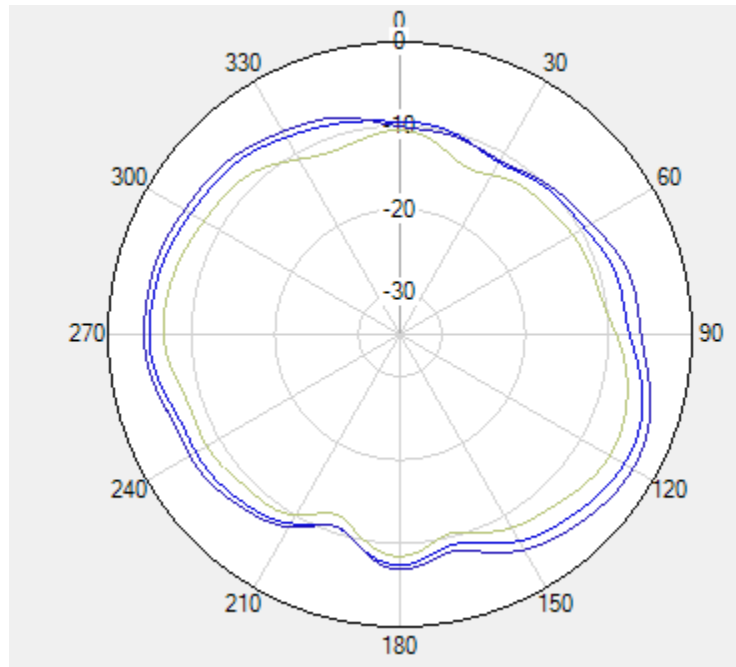
LTE B40 Phi=90deg



※ Antenna Gain

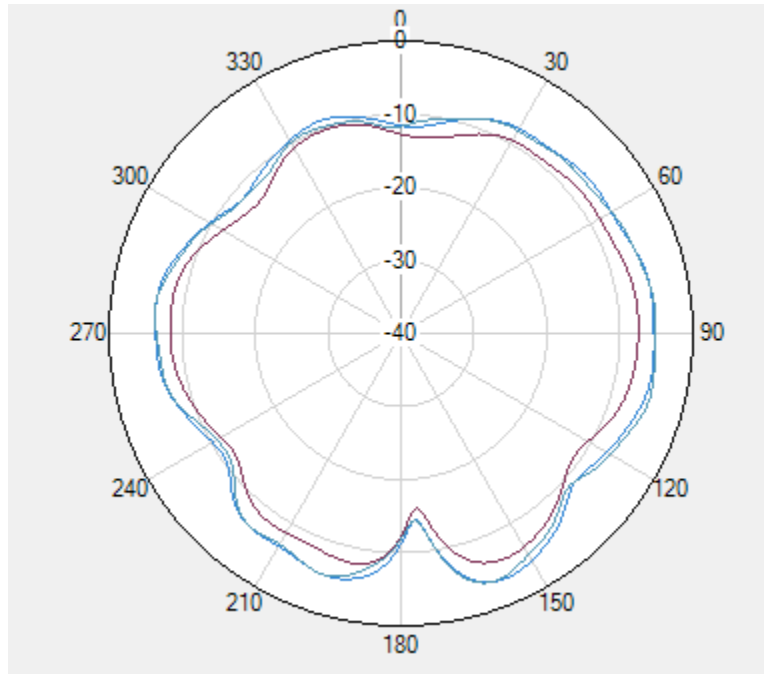
ANT1



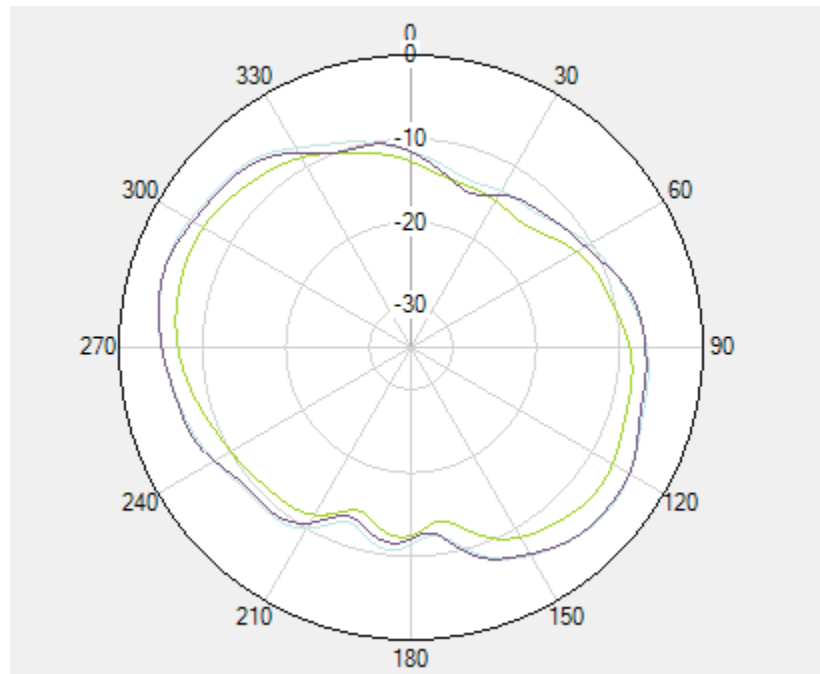


※ Antenna Gain

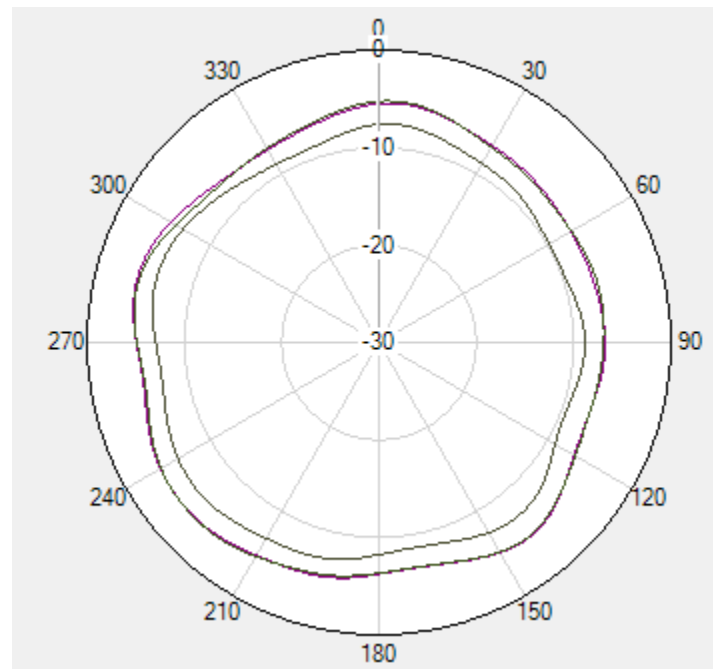
ANT1



WCDMA B1/LTE B1/B4/B66 Phi=0deg

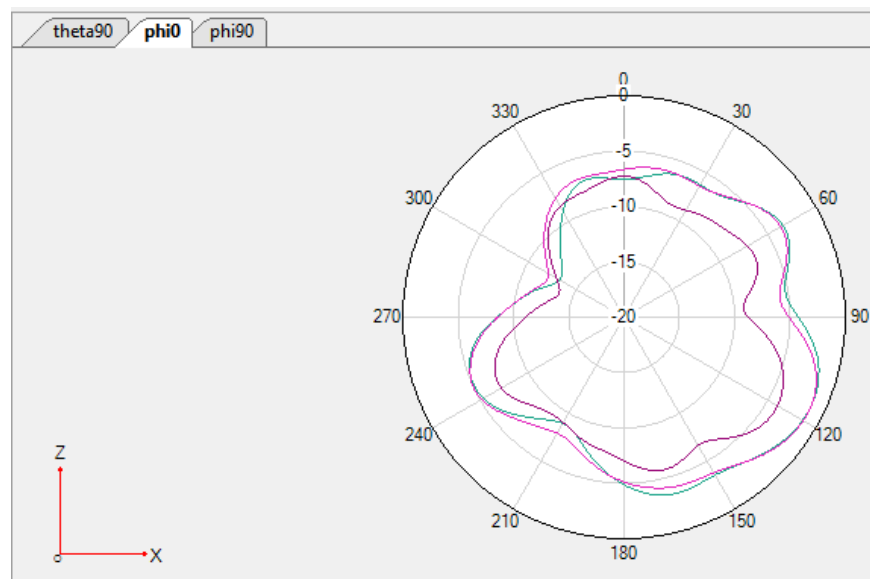


WCDMA B1/LTE B1/B4/B66 Phi=90deg

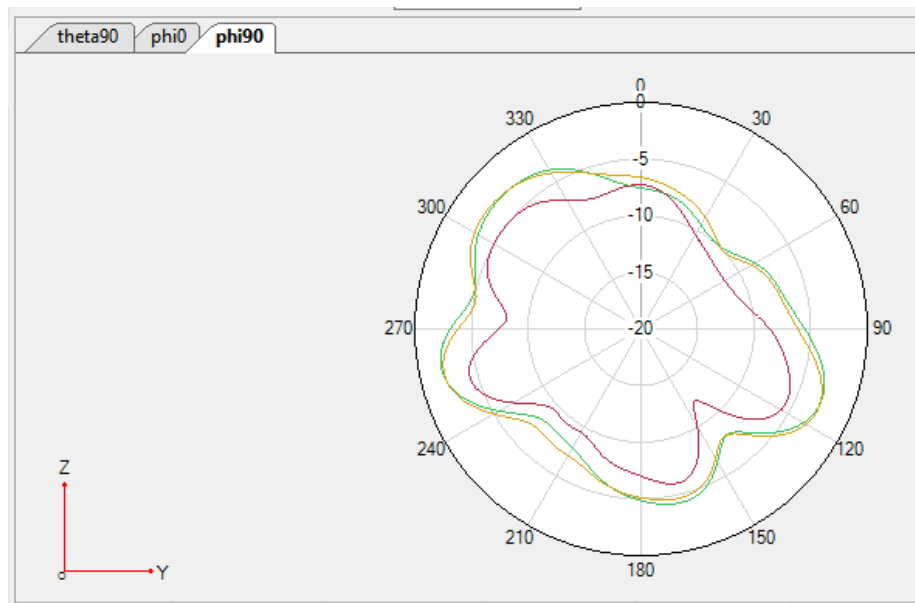


WCDMA B1/LTE B1/B4/B66 Theta=90deg

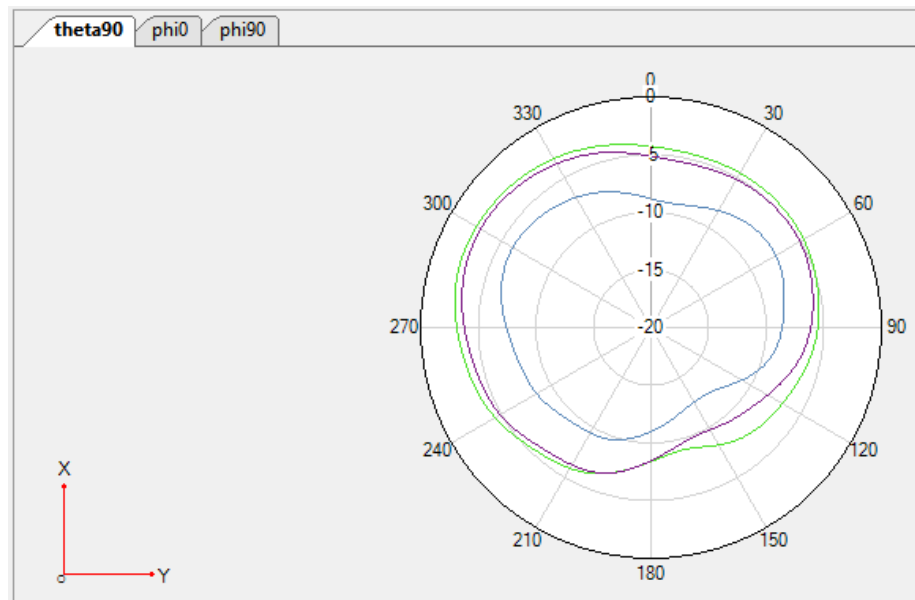
※ Antenna Gain
ANT2



GSM900/WCDMA8/LTE B8 Phi=0deg



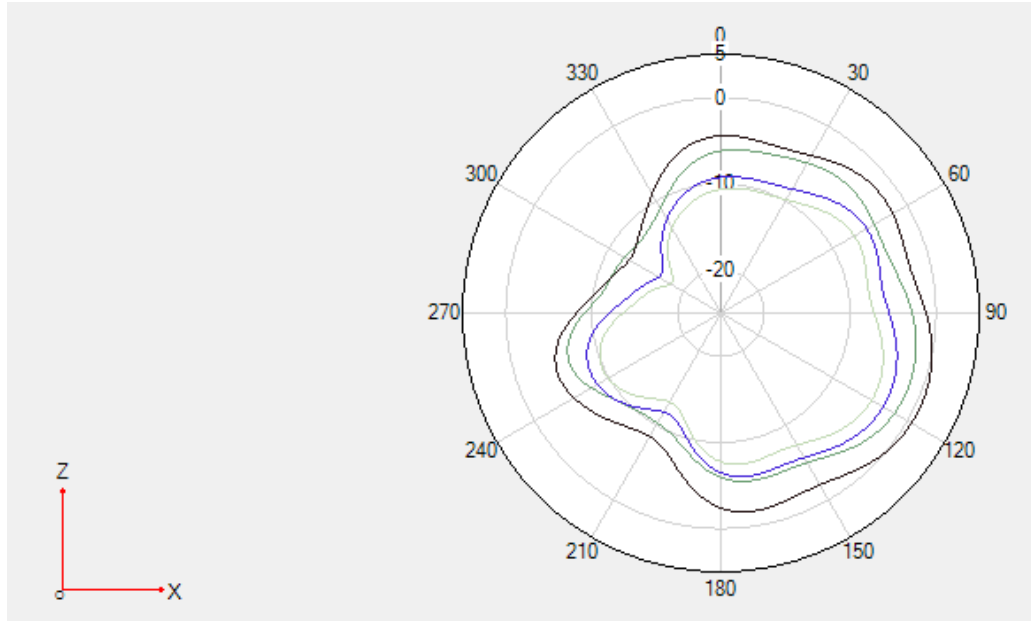
GSM900/WCDMA8/LTE B8 $\Phi = 90^\circ$



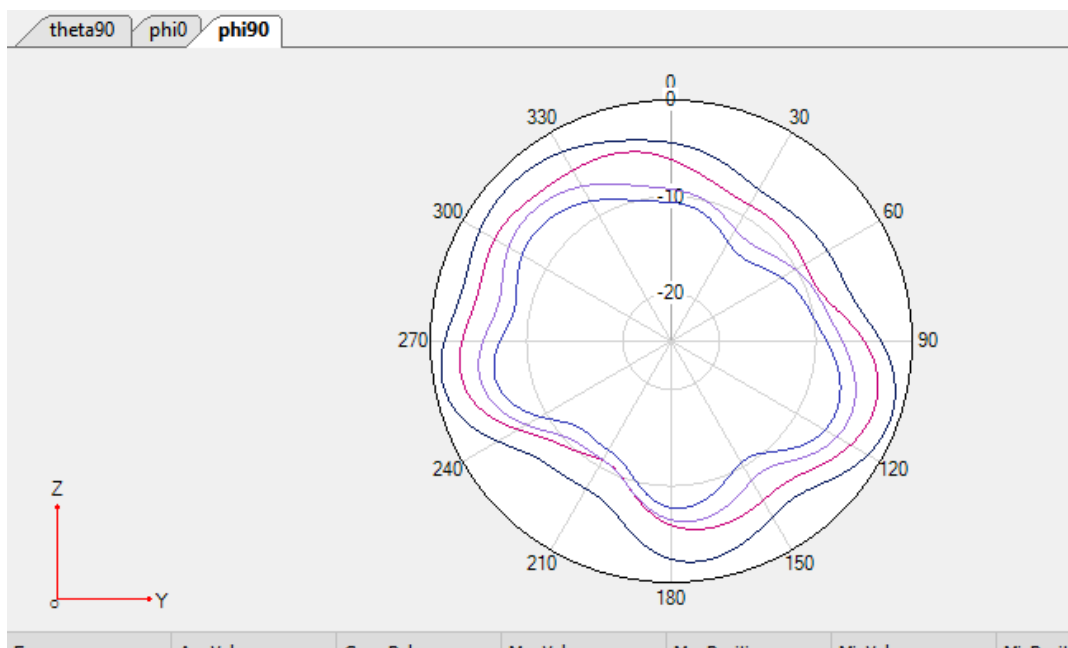
GSM900/WCDMA8/LTE B8 $\Theta = 90^\circ$

※ Antenna Gain

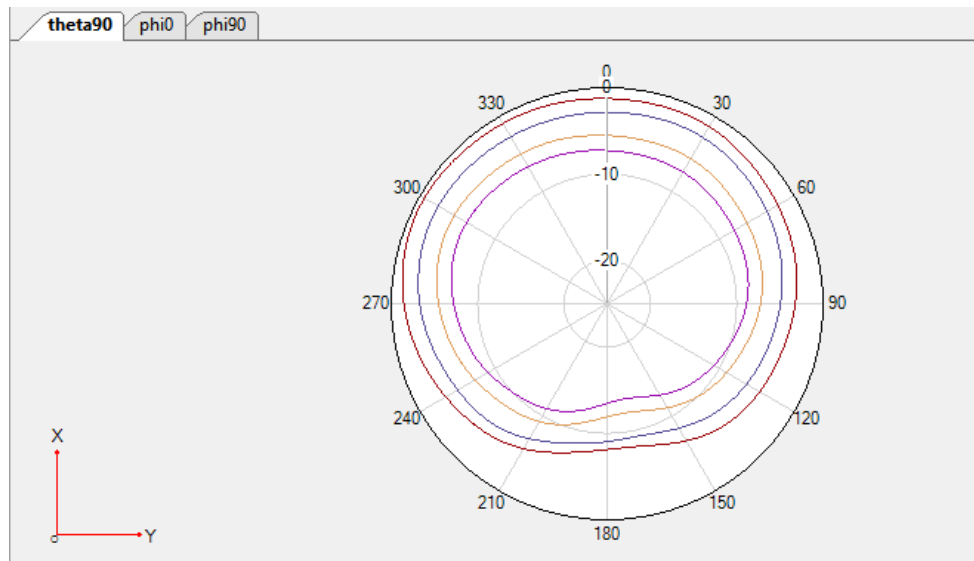
ANT2



GSM850/WCDMA B5/LTE B5 $\Phi = 0^\circ$

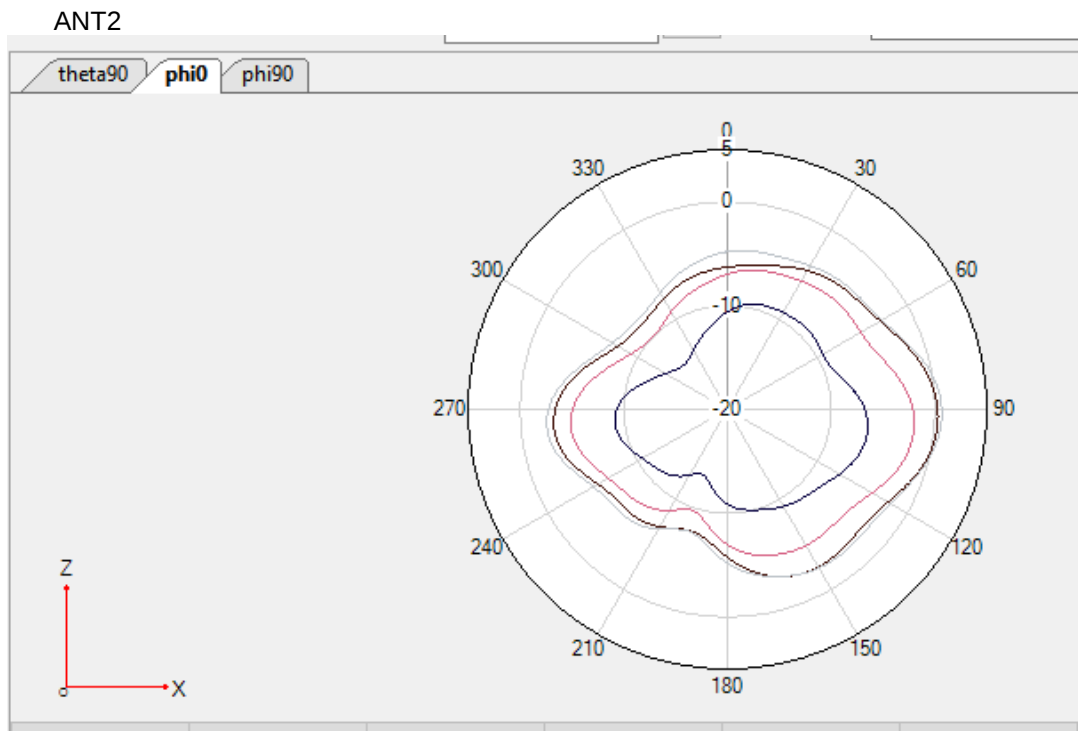


GSM850/WCDMA B5/LTE B5 $\Phi = 90^\circ$

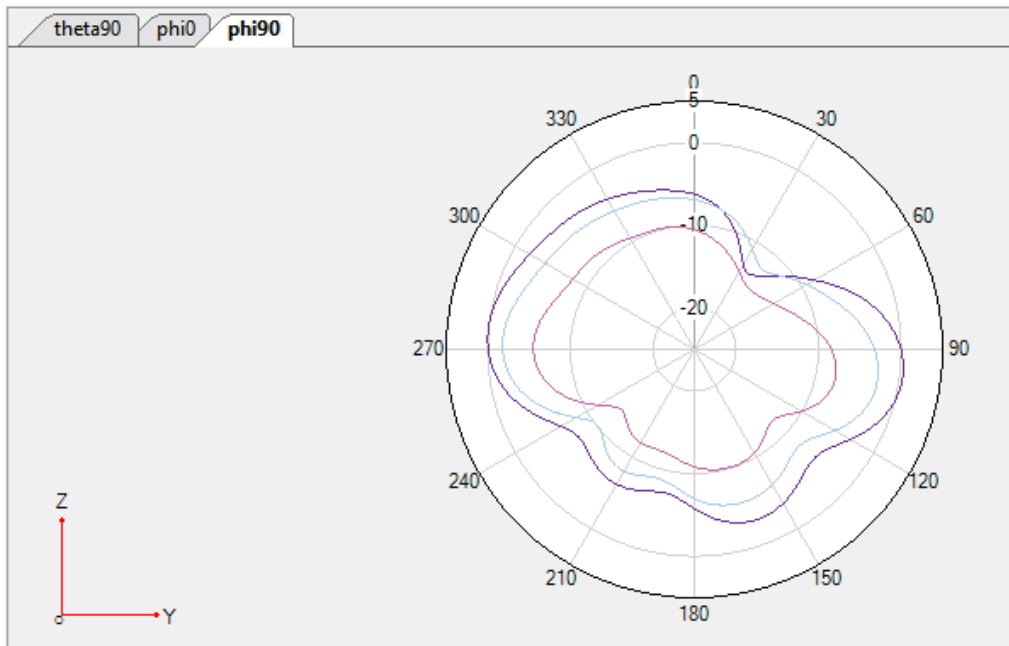


GSM850/WCDMA B5/LTE B5 Theta=90deg

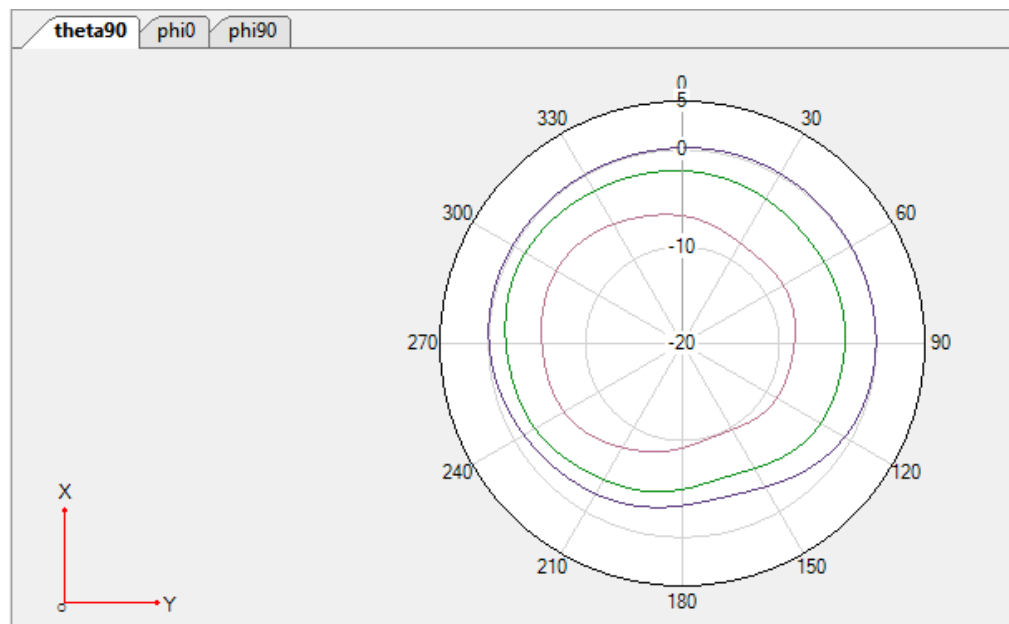
※ Antenna Gain



LTE B12/B17/ B28A Phi=0deg



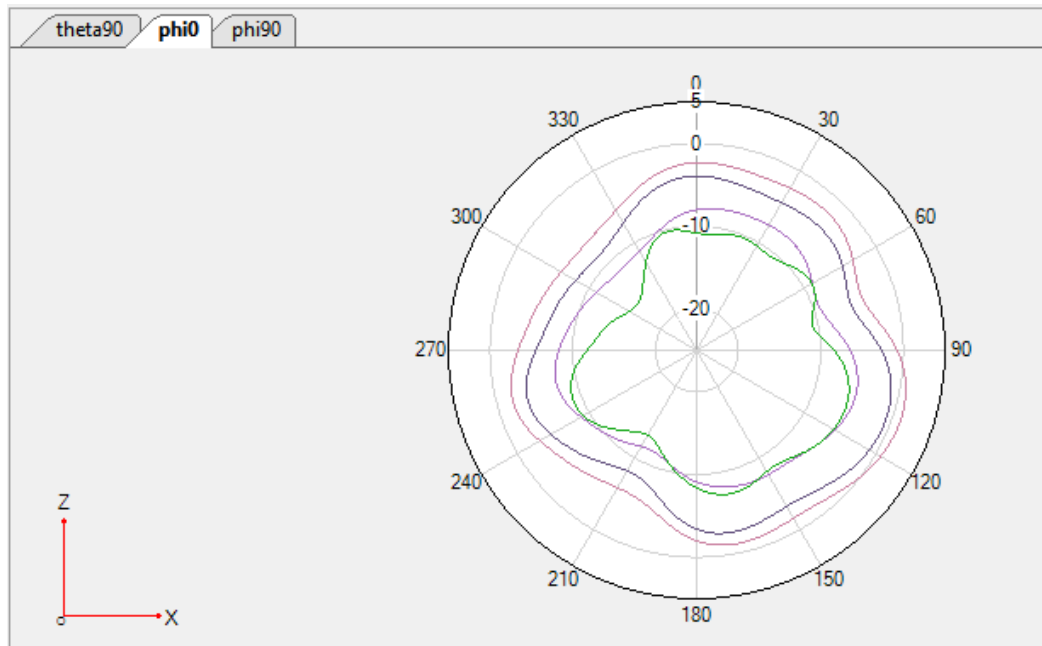
LTE B12/B17/ B28A Phi=90deg



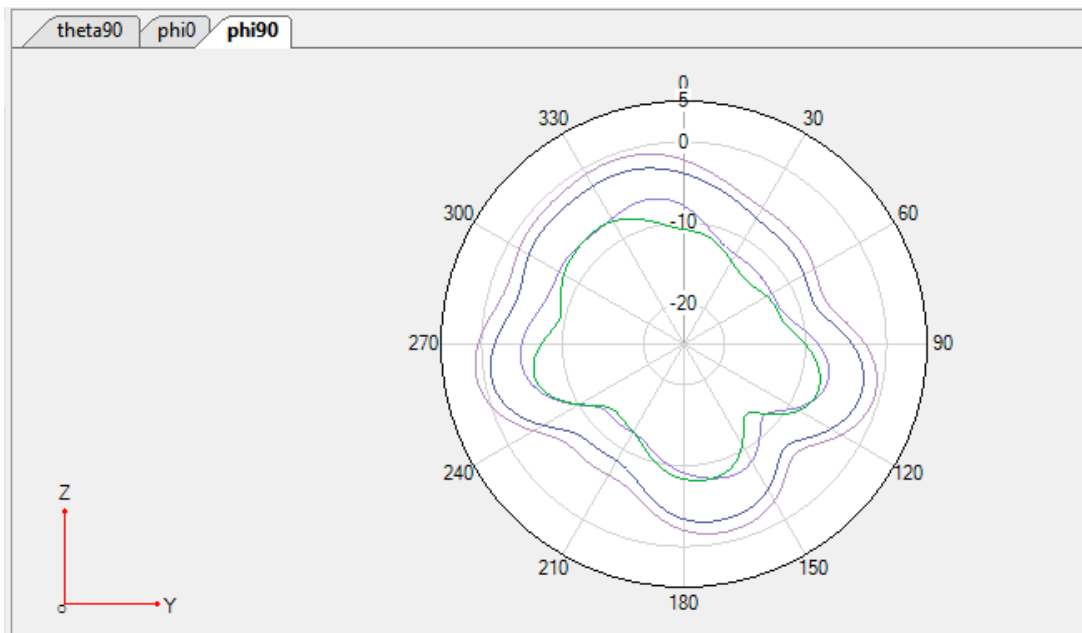
LTE B12/B17/ B28A Theta=90deg

※ Antenna Gain

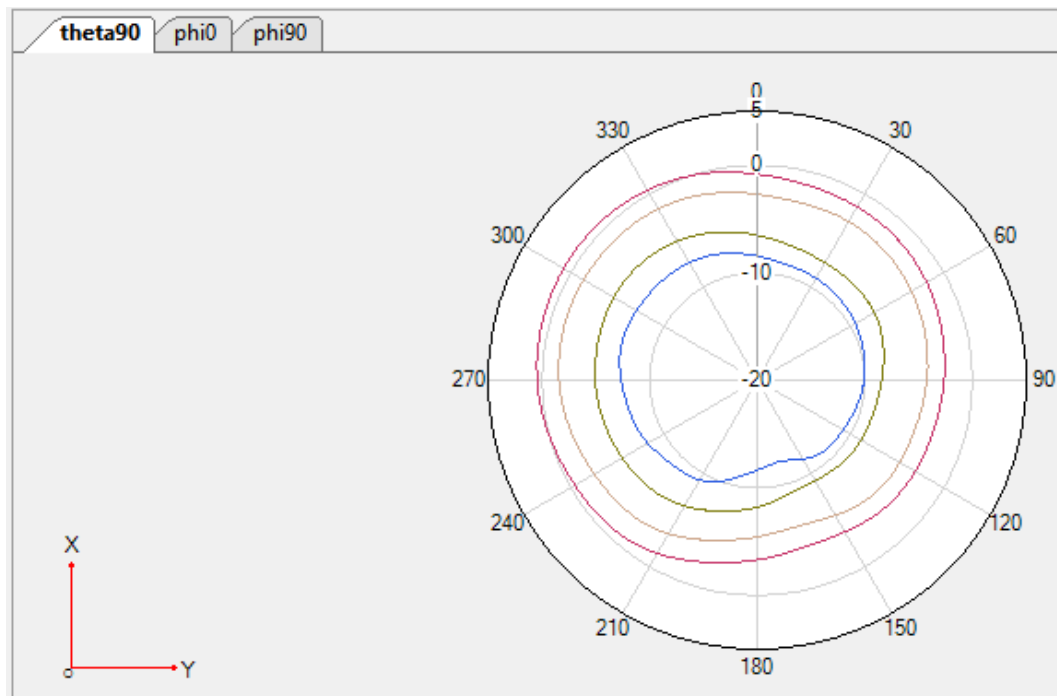
ANT2



LTE B20 $\Phi = 0^\circ$



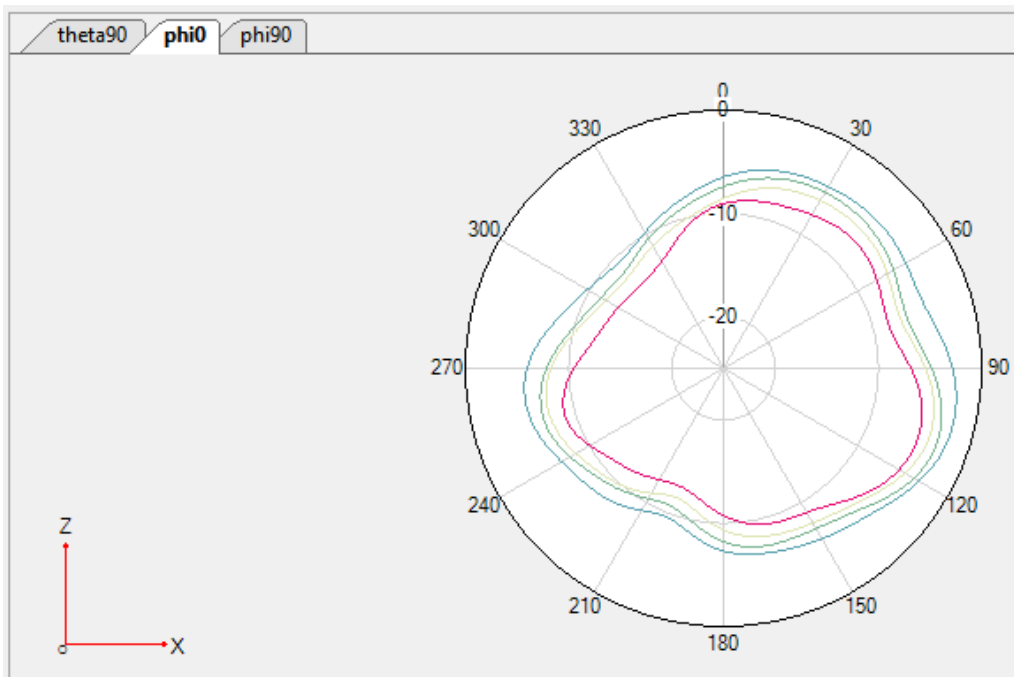
LTE B20 $\Phi = 90^\circ$



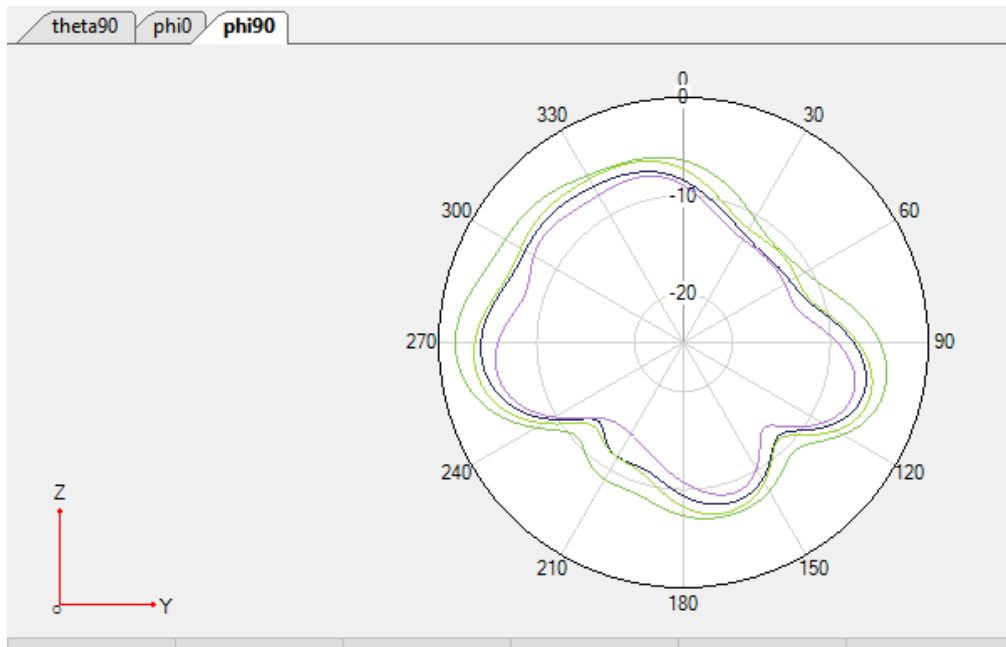
LTE B20 Theta=90deg

※ Antenna Gain

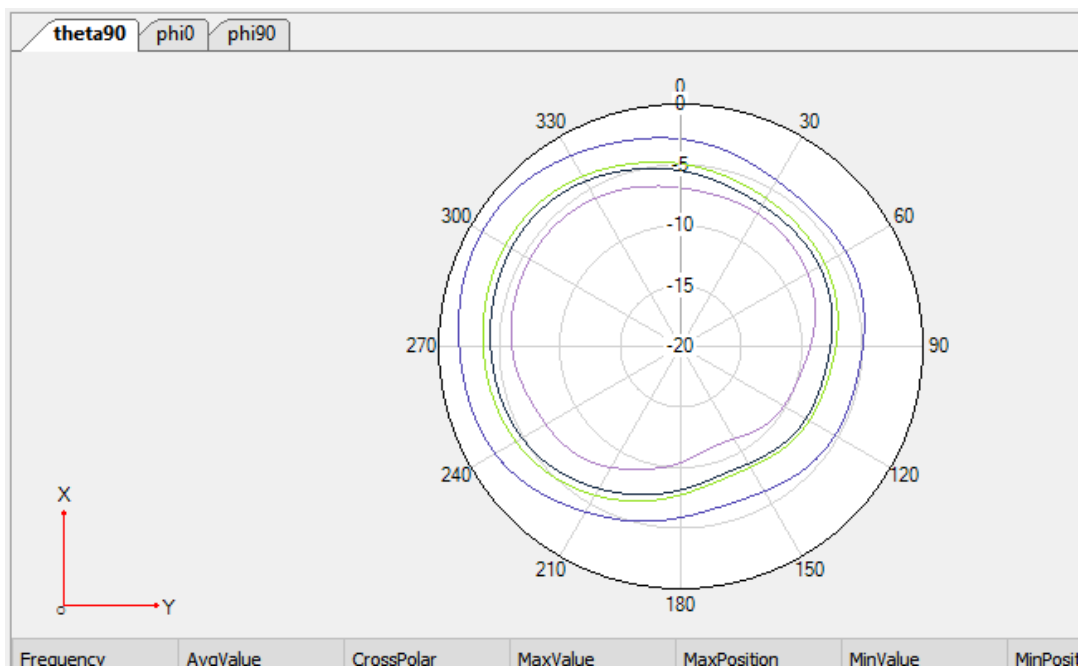
ANT2



LTE B28B Phi=0deg



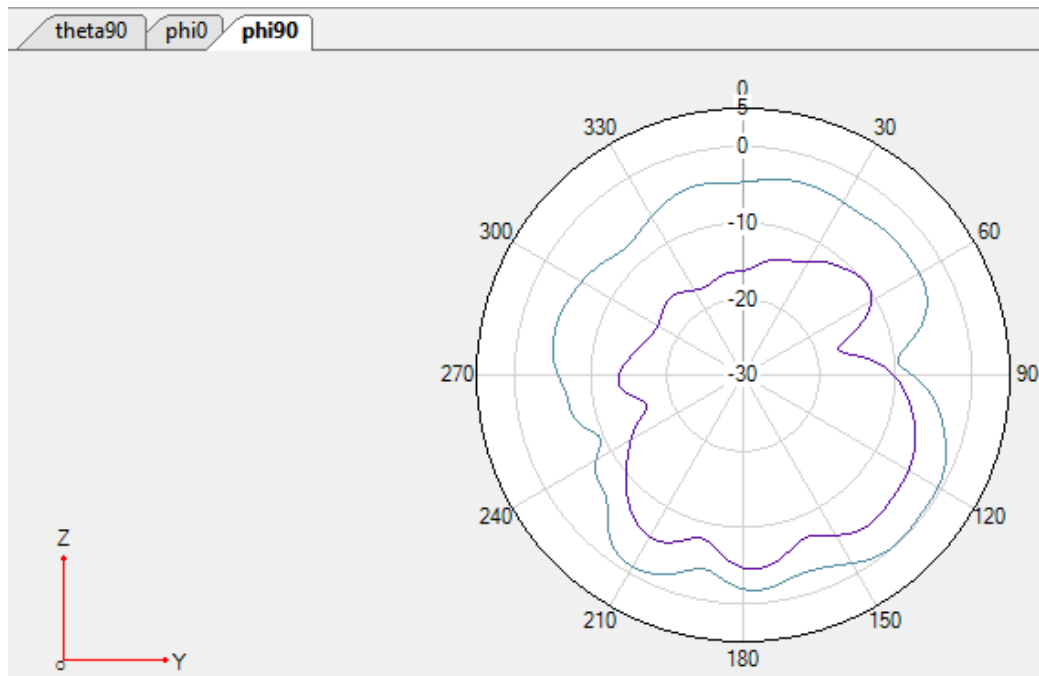
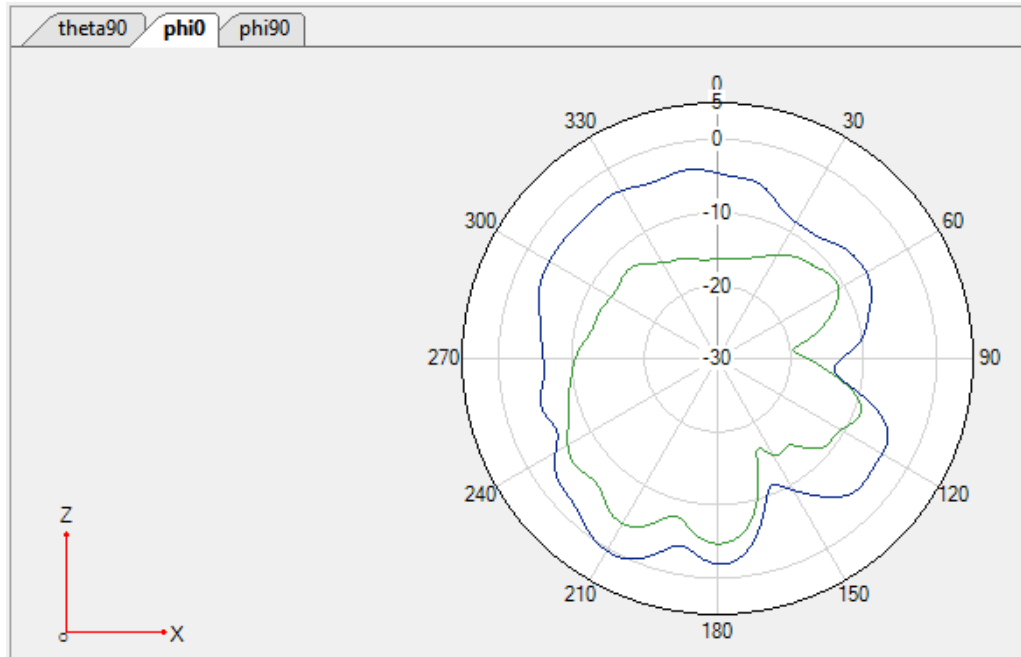
LTE B28B Phi=90deg

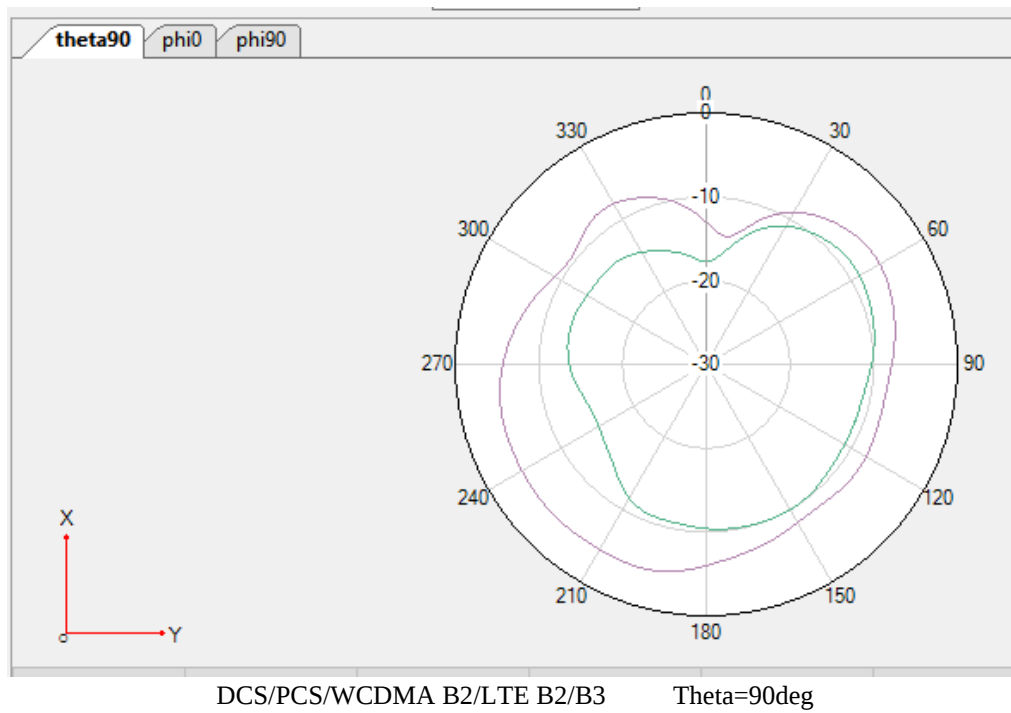


LTE B28B Theta=90deg

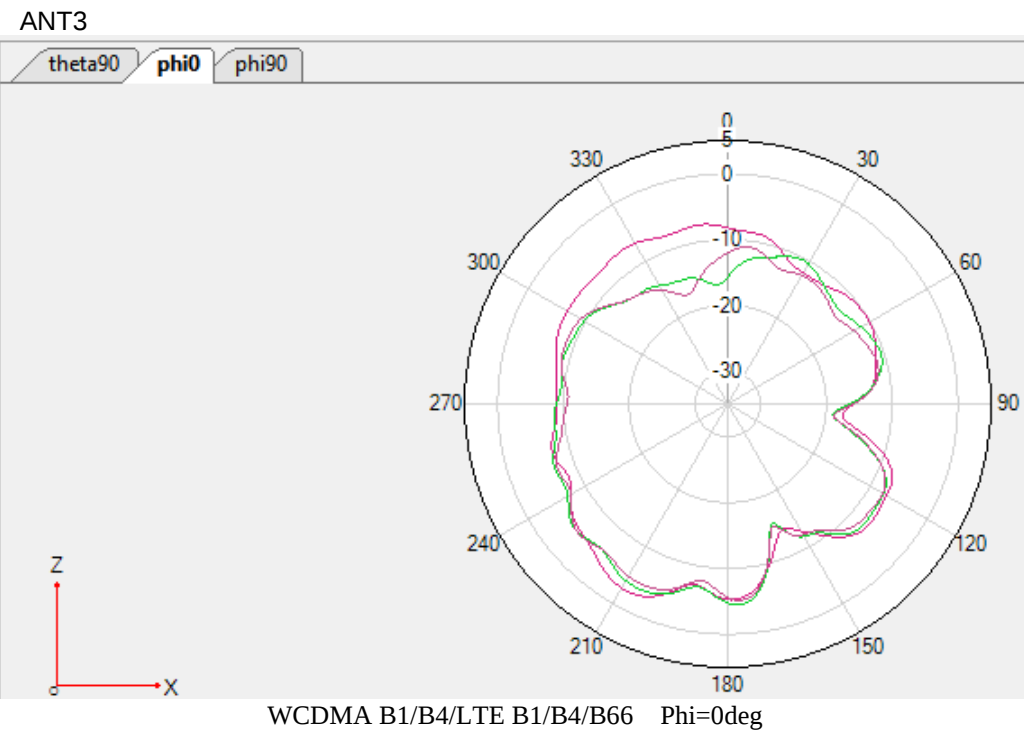
※ Antenna Gain

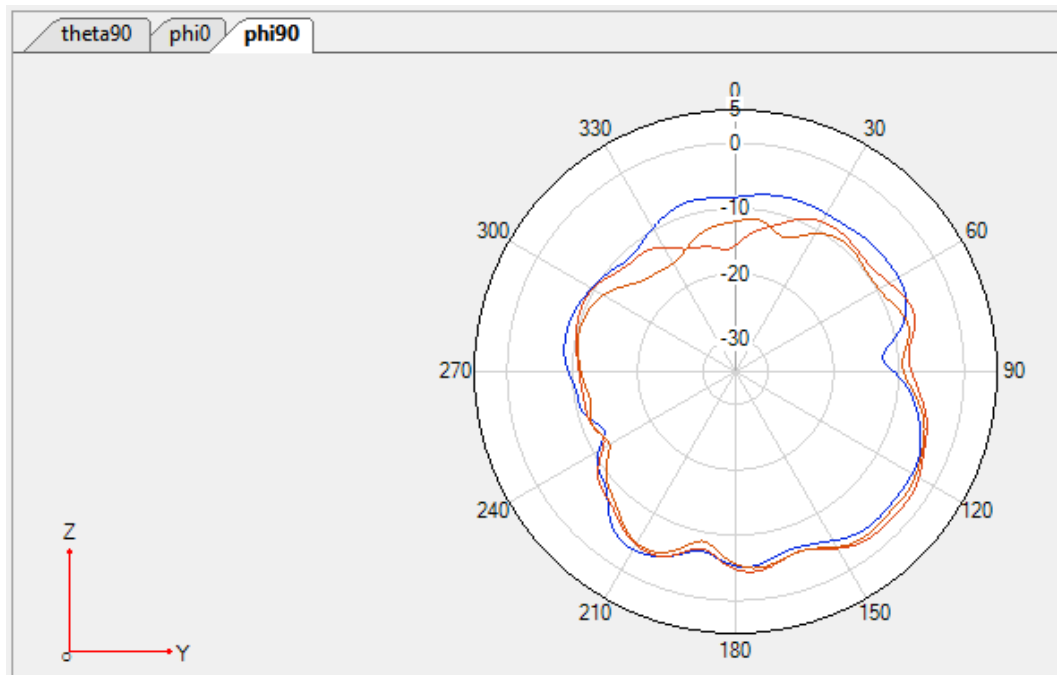
ANT3



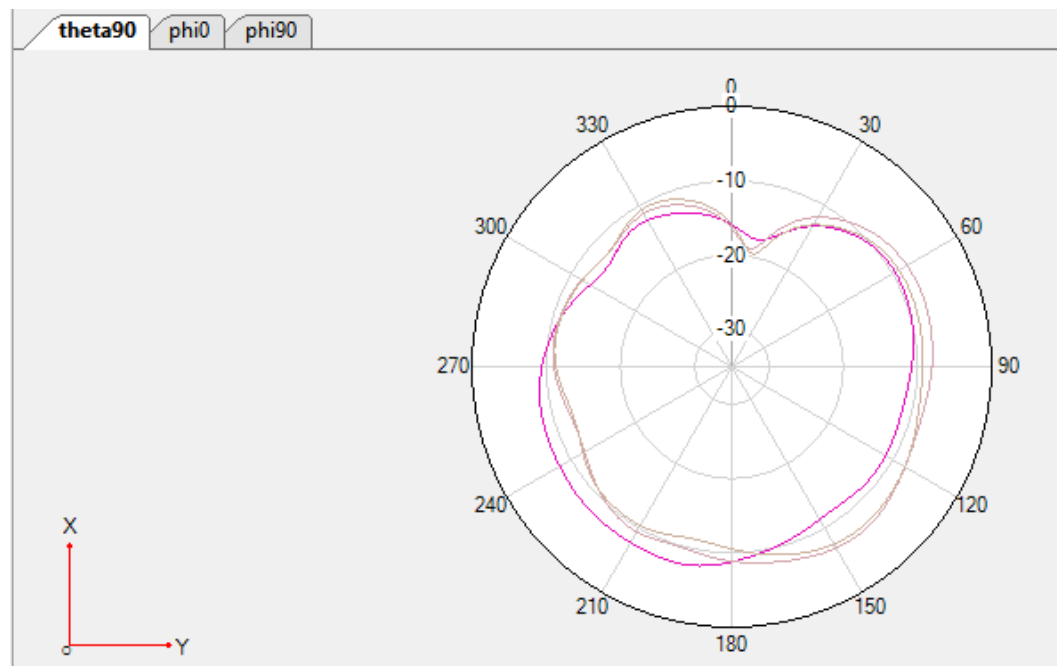


※ Antenna Gain



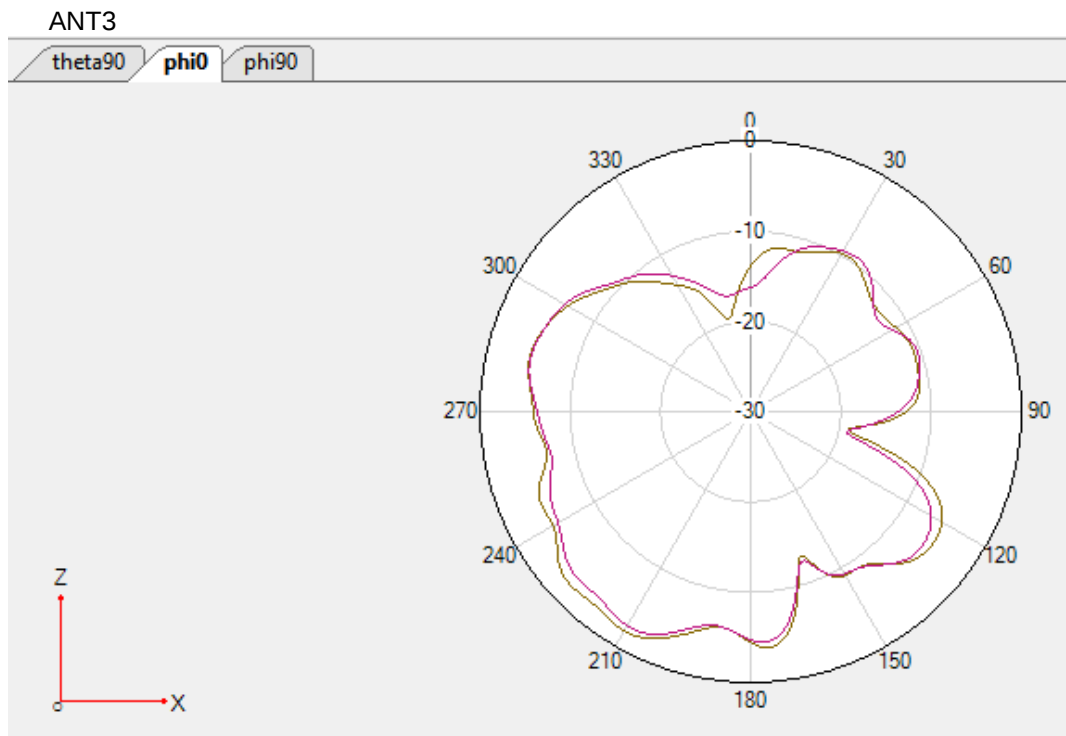


WCDMA B1/B4/LTE B1/B4/B66 $\Phi=90^\circ$

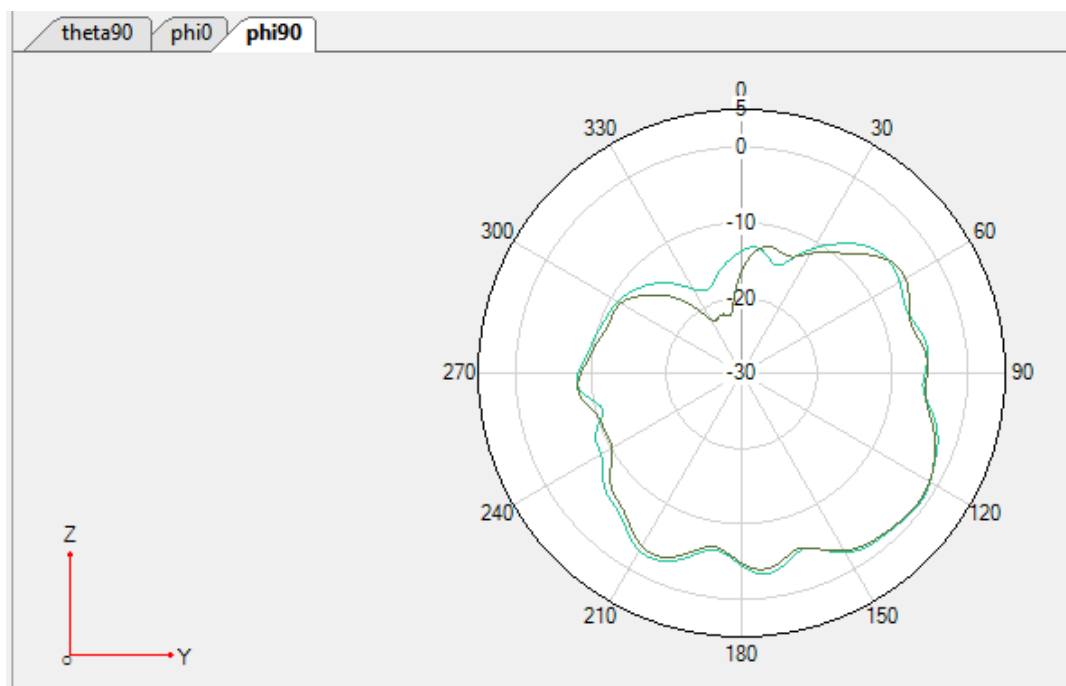


WCDMA B1/B4/LTE B1/B4/B66 $\Theta=90^\circ$

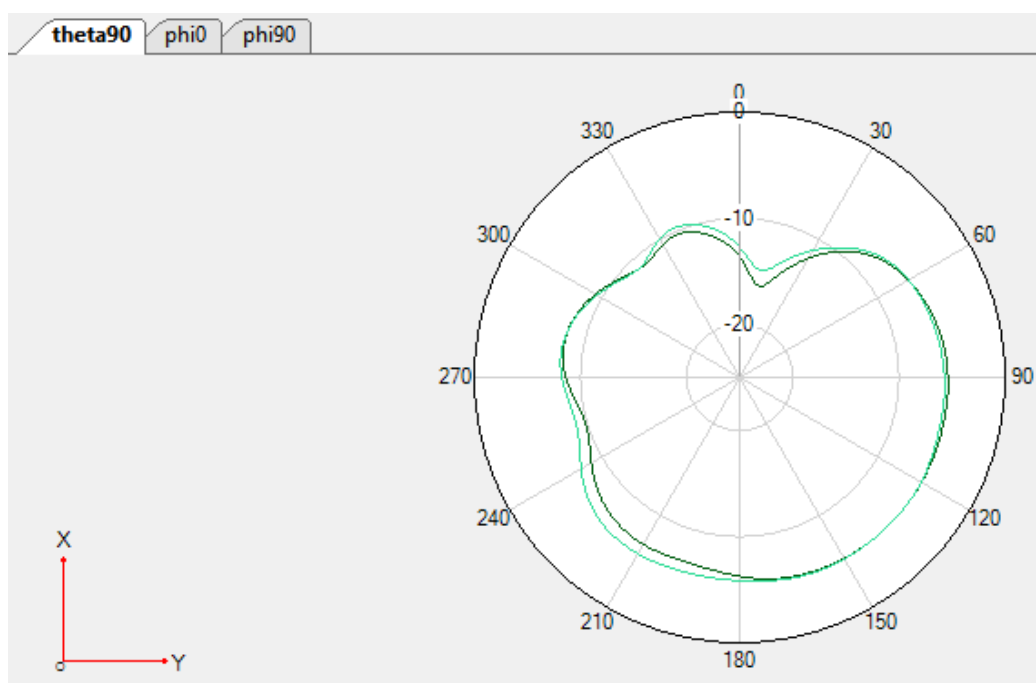
※ Antenna Gain



LTE B40 Phi=0deg

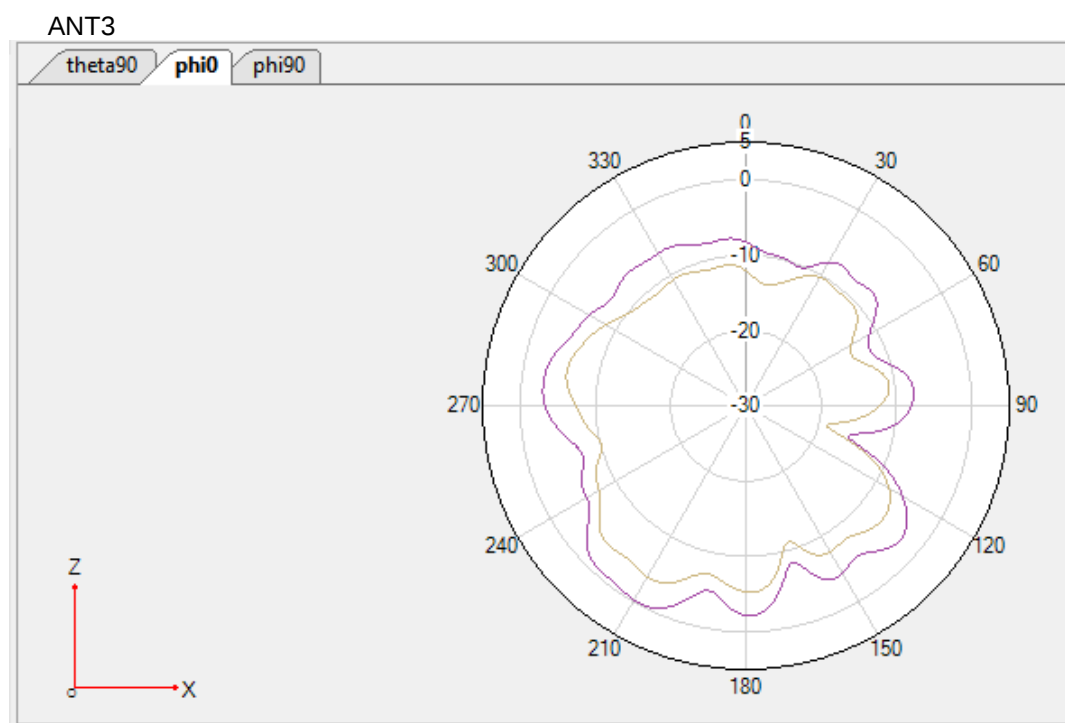


LTE B40 Phi=90deg

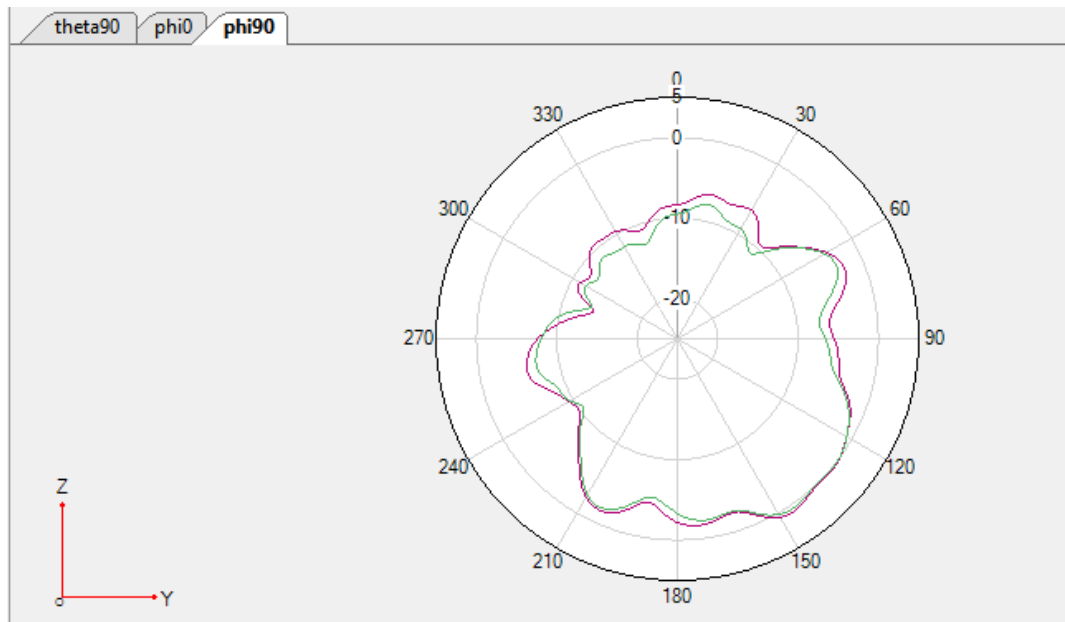


LTE B40 Theta=90deg

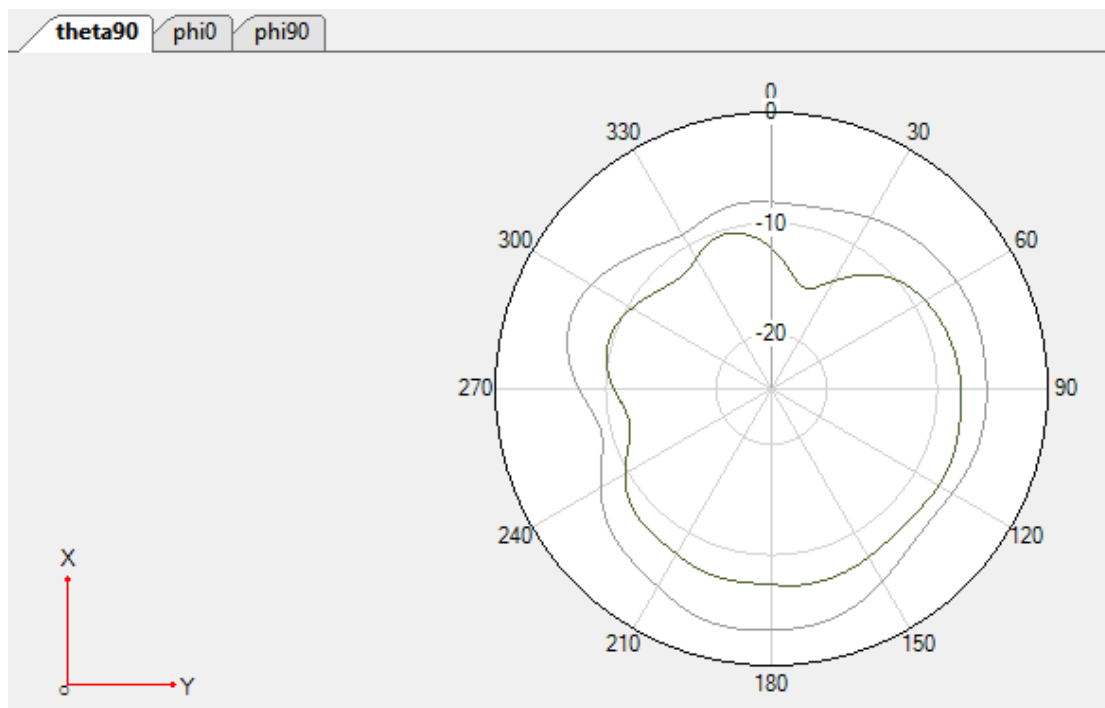
※ Antenna Gain



LTE B7/B38/B41 Phi=0deg



LTE B7/B38/B41 Phi=90deg



LTE B7/B38/B41 Theta=90deg

PREPARED BY	CHECKEDBY	APPROVAL BY	S.R.NO	
			DATE:	2023/09/29