

Feature

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

GSM 2G B2/3/5/8

WCDMA 3G B1/2/4/5/8/BC0

LTE 4G B1/2/3/4/5/7/8/12/17/20/26/28A/28B/38/41/40/66

GPS/WIFI2.4G/5G

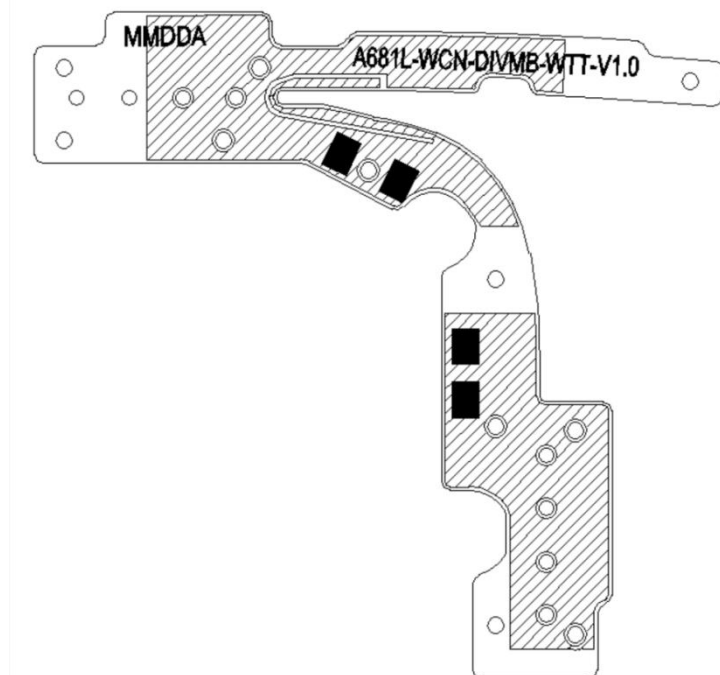
communication applications

※Antenna manufacturer

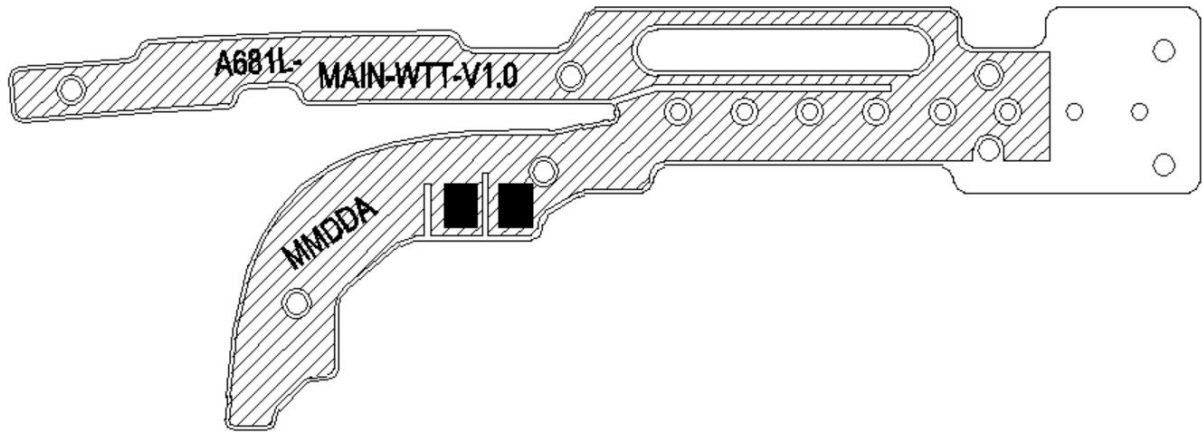
Name: Shenzhen Weichuang Communication Technology Co., Ltd
1-3/F, Building 8, Tongfu Estate Industrial Zone, Dalang Community, Dalang Street, Longhua
District, Shenzhen (Shenzhen Headquarters)

※Antenna type

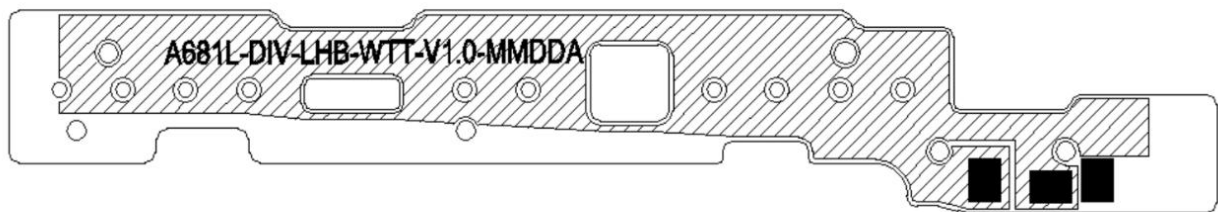
A681L_ WCN DIV MB_V1.0



A681L_ Main __V1.0



A681L_DIV_LHB-V1.0



Electric Specifications

TYPE	FPC
Transmitter Frequency	GSM850: 824~849MHz(TX) GSM900: 880-915MHz (TX) DCS1800: 1710-1785MHz (TX) PCS1900:1850-1990MHz(TX) WCDMAband I: 1920~1980MHz(TX) WCDMAband II:1850-1880MHz(TX) WCDMAband IV:1710-1785MHz(TX) WCDMAband V: 824~849MHz(TX) WCDMAband VIII: 880~915MHz(TX) CDMA BC0: 824~849MHz(TX) LTE B1: 1920~1980MHz(TX) LTE B2: 1850-1990MHz(TX) LTE B3: 1710~1785MHz(TX) LTE B4: 1710~1785MHz(TX) LTE B5: 824~849MHz(TX) LTE B7: 2505-2565MHz(TX) LTE B8: 880~915MHz(TX) LTE B12: 699~716MHz(TX)

	LTE B17: 704~716MHz(TX) LTE B26: 814~849MHz(TX) LTE B20: 837-857MHz(TX) LTE B28: 708-728MHz(TX) LTE B38: 2570~2620MHz(TX) LTE B40: 2300~2400MHz(TX) LTE B41: 2535~2655MHz(TX) LTE B66: 1710~1780MHz(TX) WIFI:2412 -2472 MHz WIFI:5150-5850MHz Bluetooth:2408 - 2480 MHz GPS:1575.42MHz
Receiver Frequency	GSM850: 869-894MHz (RX) GSM900: 925-960MHz (RX) DCS1800: 1805-1880MHz (RX) PCS1900:1910-1990MHz(RX) WCDMAband I:2110~2170MHz(RX) WCDMAband II:1910-1990MHz(RX) WCDMAband V: 869~894MHz(RX) WCDMAband IV:2110-2170MHz(RX) WCDMAband VIII: 925~960MHz(RX) CDMA BC0 : 824~849MHz(RX) LTE B1: 2110~2170MHz(RX) LTE B2: 1910-1990MHz(RX) LTE B3: 1805~1880MHz(RX) LTE B4: 2110-2170MHz(RX) LTE B5: 869~894MHz(RX) LTE B7: 2625-2685MHz(RX) LTE B8: 925~960MHz(RX) LTE B12: 729~746MHz(RX) LTE B17: 734~746MHz(RX) LTE B26: 859~894MHz(RX) LTE B20: 796-816MHz(RX) LTE B28: 763-783MHz(RX) LTE B38: 2570~2620MHz(RX) LTE B40: 2300~2400MHz(RX) LTE B41: 2535~2655MHz(RX) LTE B66: 2110~2200MHz(RX) WIFI:2412 -2472 MHz WIFI:5150-5850MHz Bluetooth:2408 - 2480 MHz GPS:1575.42MHz

RF-Output Power (E.I.R.P)	GSM850: 33+/-2dBm GSM900: 33+/-2dBm DCS1800:30+/-2dBm PCS1900:30+/-2dBm WCDMA 850: 22.5+/-2dBm WCDMA 900: 22.5+/-2dBm WCDMA1700:22.5+/-2dBm WCDMA1900:22.5+/-2dBm WCDMA 2100: 22.5+/-2dBm CDMA BC0: 22.5+/-2dBm LTE B1:22+/-2dBm LTE B2:22+/-2dBm LTE B3:22+/-2dBm LTE B4:22+/-2dBm LTE B5:22+/-2dBm LTE B7:22+/-2dBm LTE B8:22+/-2dBm LTE B12:22+/-2dBm LTE B17:22+/-2dBm LTE B26:22+/-2dBm LTE B20:22+/-2dBm LTE B28:22+/-2dBm LTE B38:22+/-2dBm LTE B40:22+/-2dBm LTE B41:22+/-2dBm LTE B66:22+/-2dBm
Antenna Gain	WCN Gain WIFI2.4G-4.76dBi WIFI5G:-1.52dBi Bluetooth:-4.76dBi GPS:-1.02 dBi

Antenna Gain	MAIN Gain GSM850: -5.64dBi GSM900:-4.63 dBi DCS1800: -1.68dBi PCS1900:-1.16dBi WCDMA 850: -5.64dBi WCDMA 900: -4.63 dBi WCDMA 1700:-0.96dbi WCDMA 1900:-1.16dbi WCDMA 2100: -0.35dBi CDMA BC0 : -5.64dBi LTE B1:-0.35dBi LTE B2:-1.16dBi LTE B3:-1.68 dBi LTE B4: -0.96dBi LTE B5: -5.64 dBi LTE B7:-2.19dBi LTE B8:-4.63dBi LTE B12:-8.5dBi LTE B17:-8.49dBi LTE B20:-6.73dBi LTE B26: -5.64 dBi LTE B28:-8.48dBi LTE B38: -2.31 dBi LTE B40: -2.15dBi LTE B41:-2.19dBi LTE B66:-1.68 dBi
Antenna Gain	DIV Gain GSM850: -8.92dBi GSM900:-8.15dBi WCDMA 850: -8.92dBi WCDMA 900: -8.15 dBi CDMA BC0 : -8.92 dBi LTE B5: -8.92 dBi LTE B7:-2.55dBi LTE B8:-8.15 dBi LTE B12:-10.2dBi LTE B17:-10.2dBi LTE B26:-8.94dBi LTE B20:-7.84dBi LTE B28:-10.18dBi

	LTE B38: -1.83 dBi LTE B40: -5.99dBi LTE B41:-2.55 dBi MB Gain DCS1800: -4.72dBi PCS1900:-2.74dBi WCDMA 1700:-3.17dbi WCDMA 1900:-2.74dbi WCDMA 2100: -1.93 dBi LTE B1:-1.93dBi LTE B2:-2.74dBi LTE B3:-4.72 dBi LTE B4: -3.17dBi LTE B66:-4.72 dBi
Power of antenna:	GSM850:24 GSM900:24 DCS1800:23 PCS1900:23 WCDMA 850:15 WCDMA900:15 WCDMA 2100:17 WCDMA 1900:17 WCDMA 1700:17 CDMA BC0:15 LTE B1:17.5 LTE B2:17 LTE B3:17.5 LTE B4:17 LTE B5:15 LTE B7:17 LTE B8:15 LTE B12:14 LTE B7:14 LTE B20:15 LTE B26:15 LTE B28:14 LTE B38:17.5 LTE B40:17 LTE B41:17.5 LTE B66:17 WIFI2.4G:9.3dBm WIFI5.8G:10.6dBm Bluetooth:2.6dBm GPS:-153.5

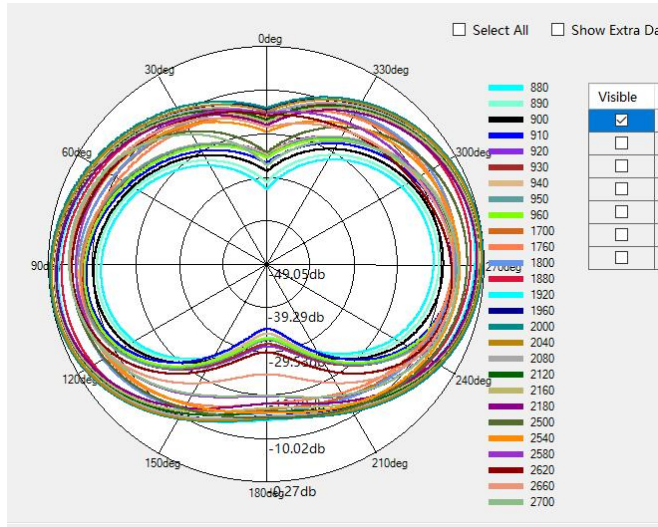
Type of Modulation

GMSK/8PSK/QPSK/16QAM/64QAM/GFSK, $\pi/4$ -DQPSK,8DPSK

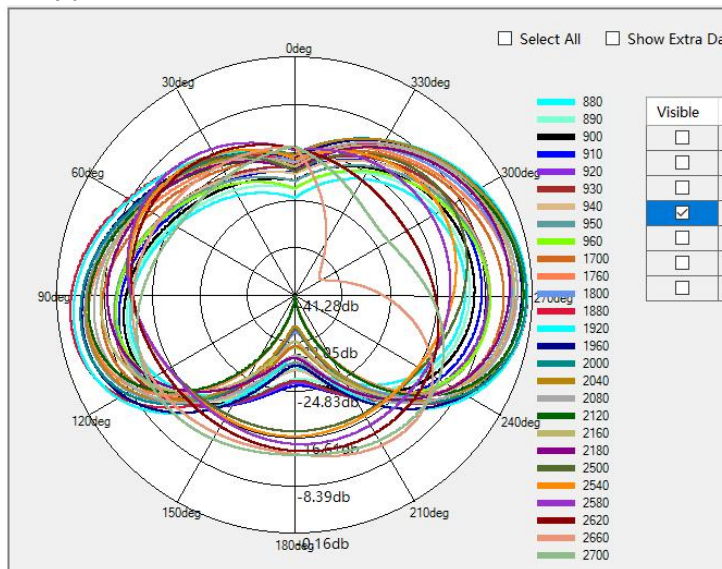
※ Antenna Gain

Main Antenna

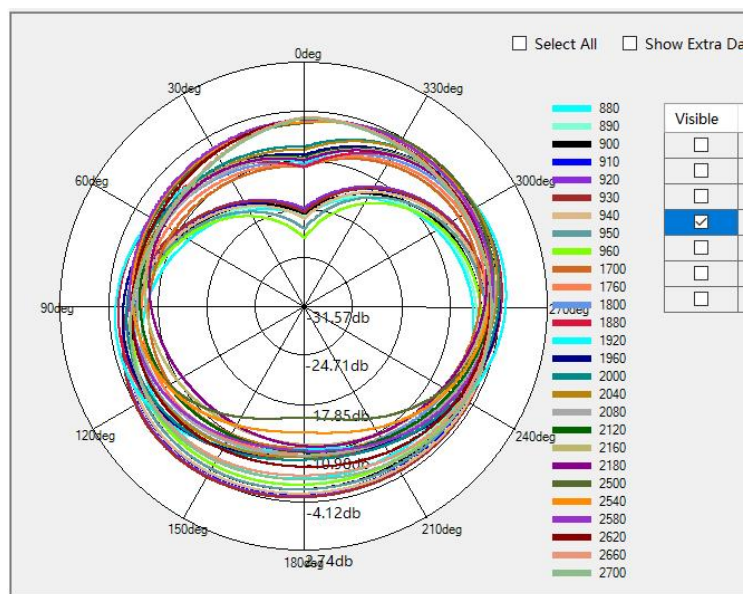
GSM/900/DCS1800/PCS1900 WCDMA 1/2/4/8LTEB FDD B1/B2/B3/B4/B7/B8/TDD B38/B41/B66
Phi=0



Phi=90

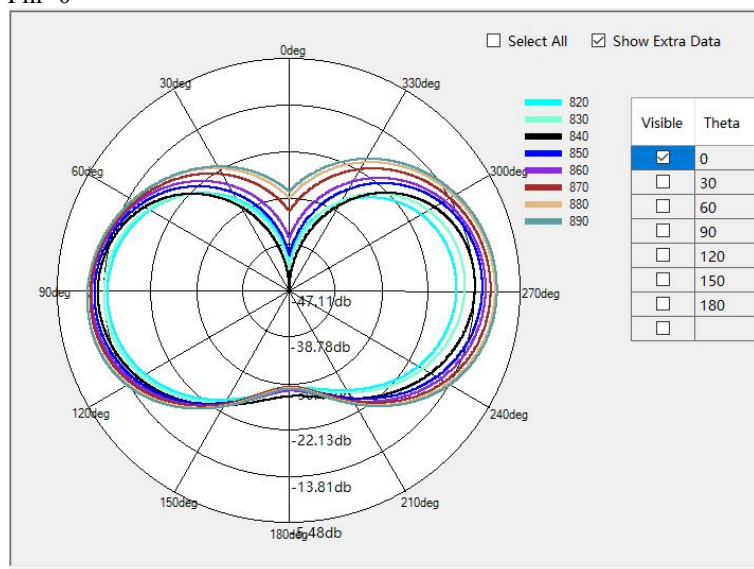


Theta=90

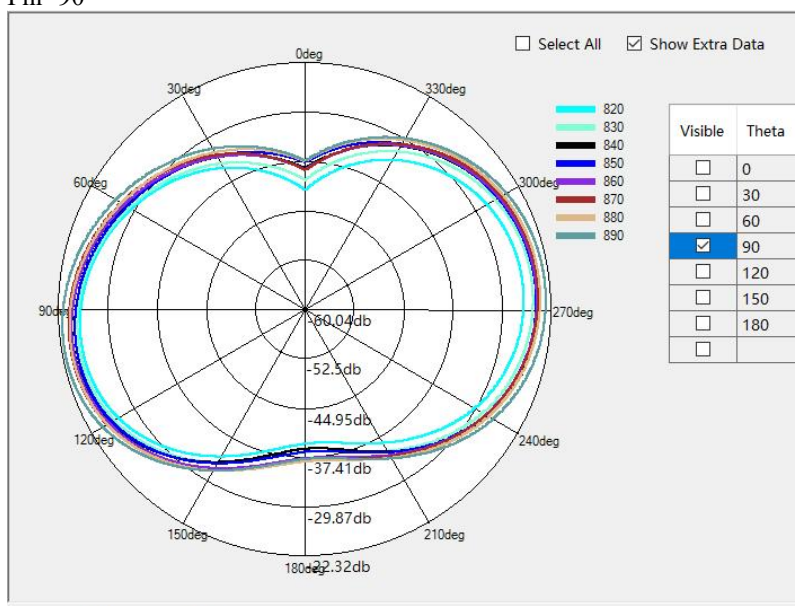


GSM/850 WCDMA5 CDMA BC0 LTEB FDD B5/20/26

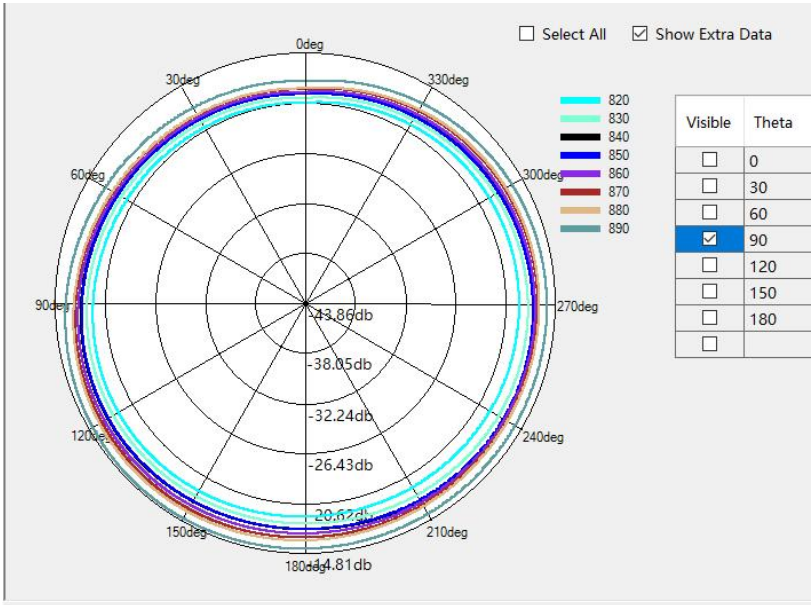
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Phi=90

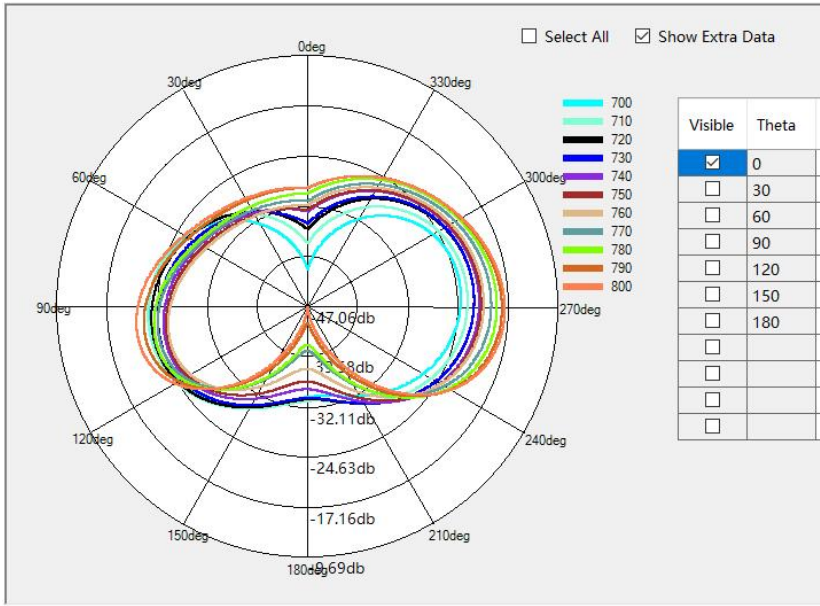


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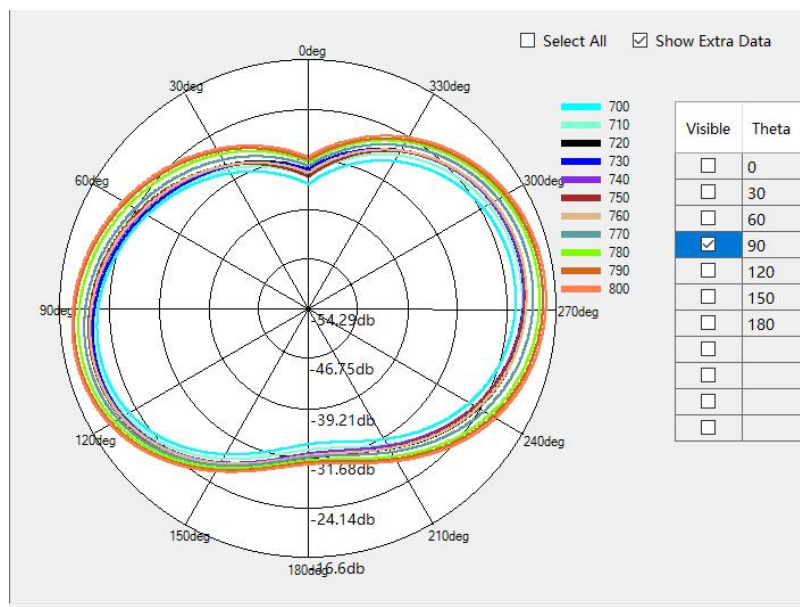


LTEB FDD B12/17/28

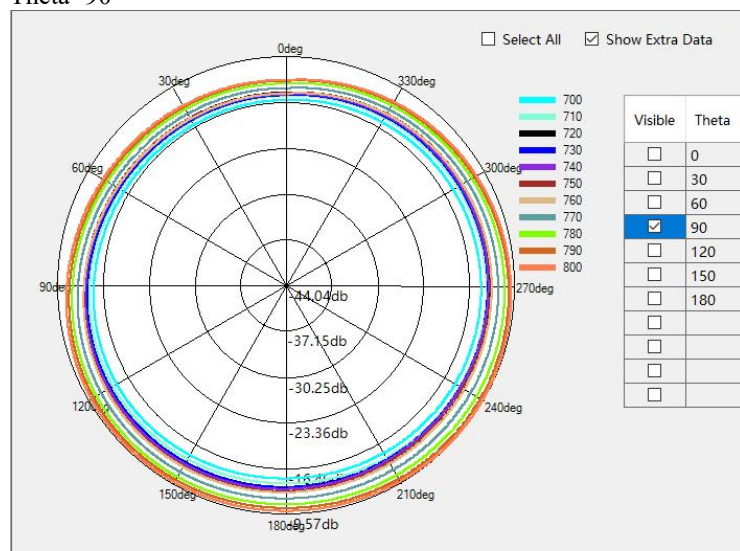
Phi=0



Phi=90

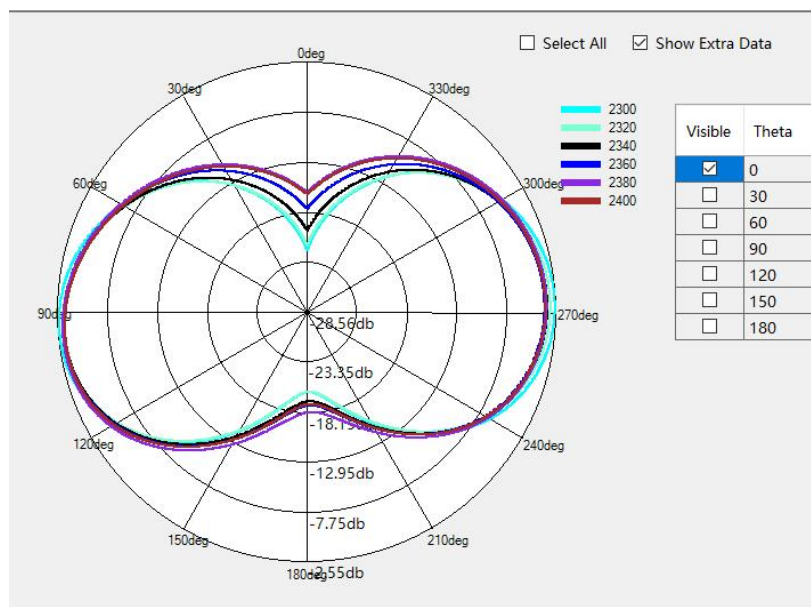


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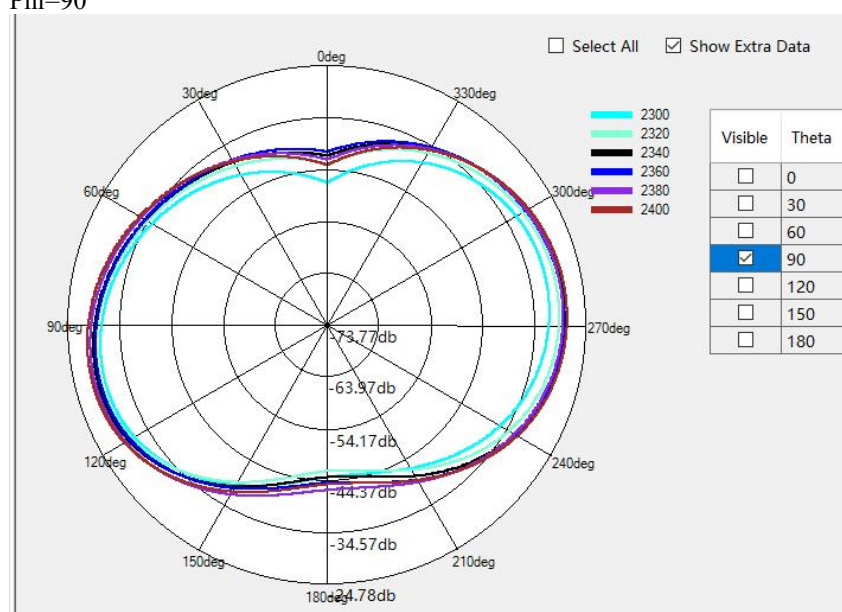


LTEB TDD B40

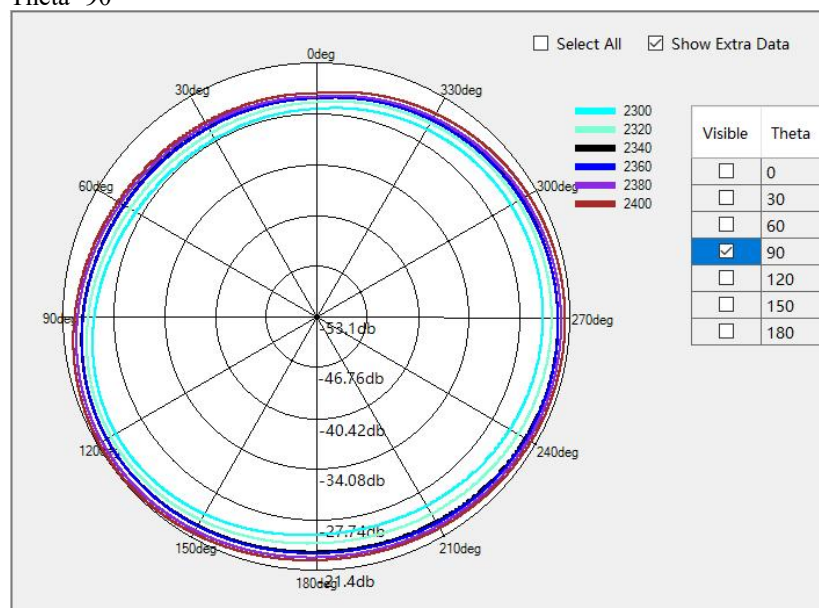
Phi=0



Phi=90



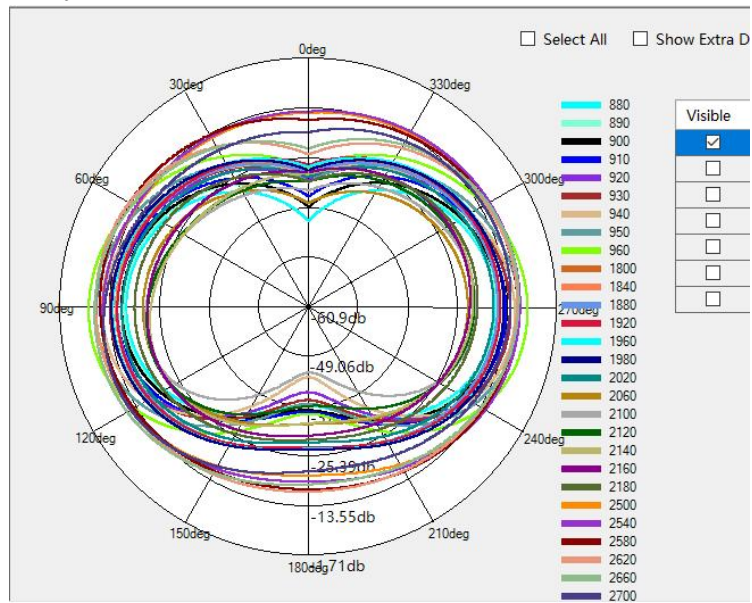
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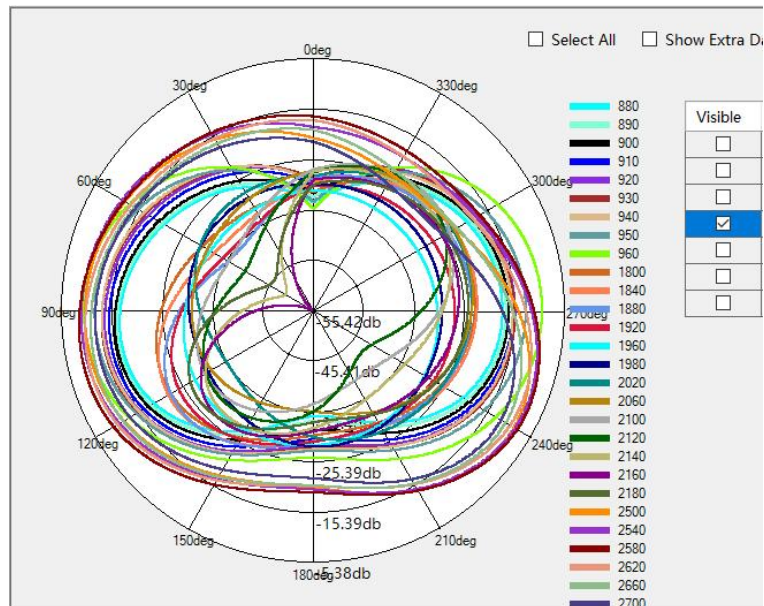
UANT Antenna

GSM/900 WCDMA W8 LTEB FDD B7/B8/TDD B38/B41

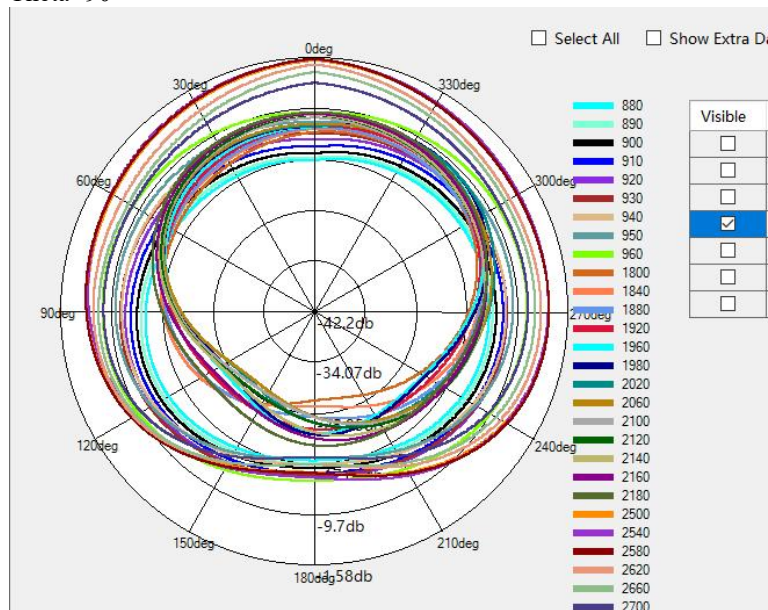
Phi=0



Phi=90

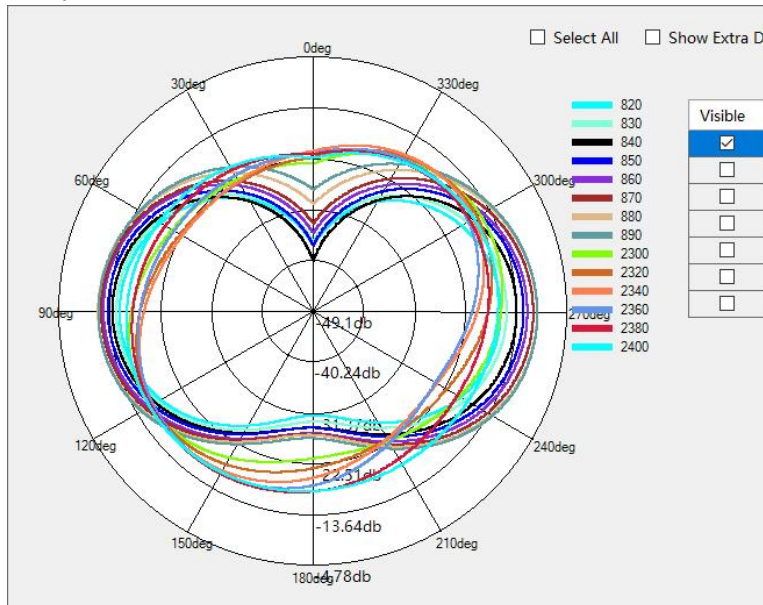


Theta=90

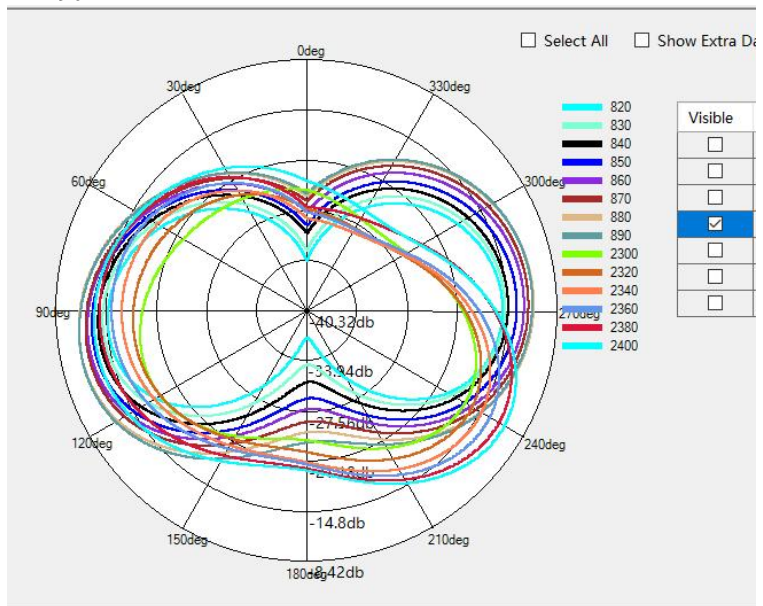


GSM/850 WCDMA W5 CDMA BC0 LTEB FDD B5/B26/TDD B40

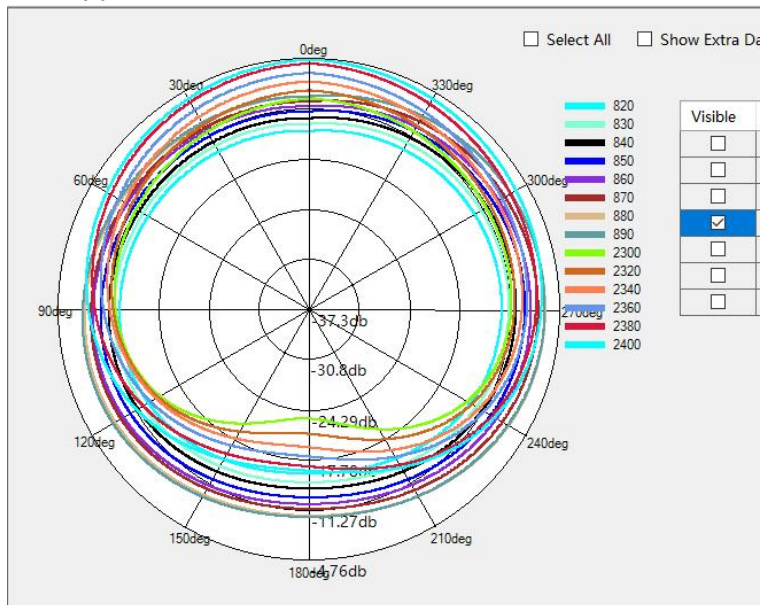
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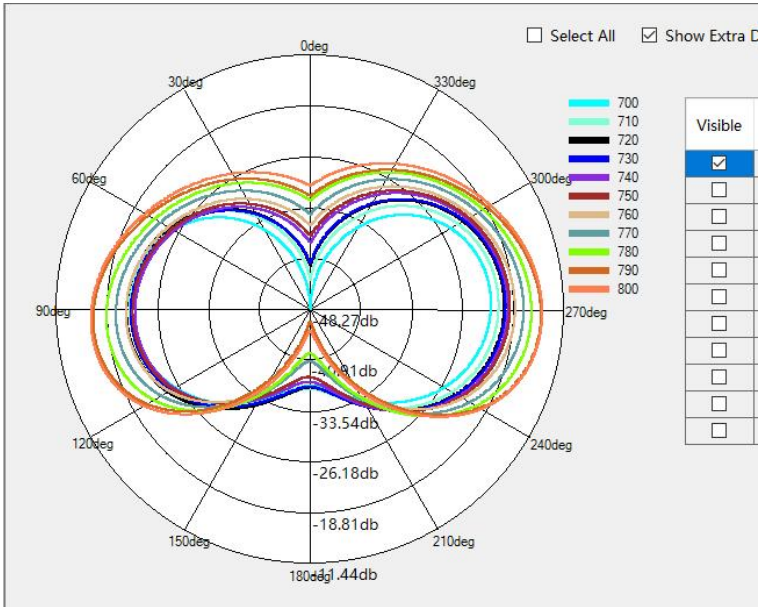
Phi=90



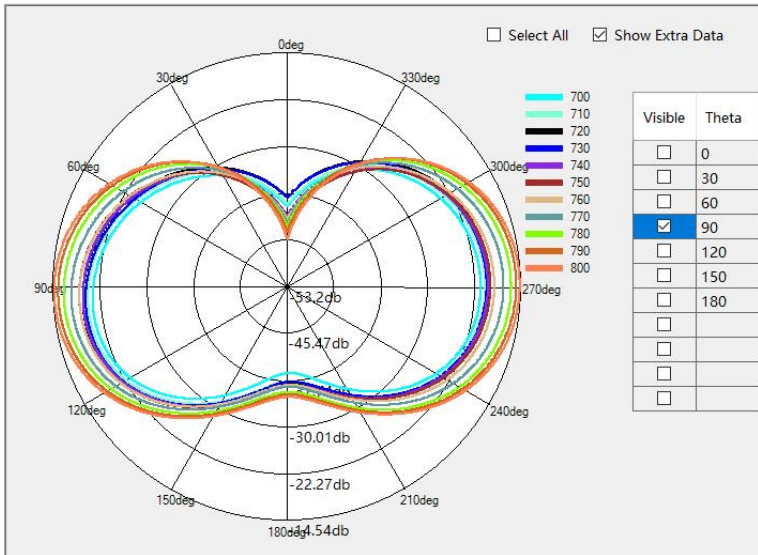
Theta=90



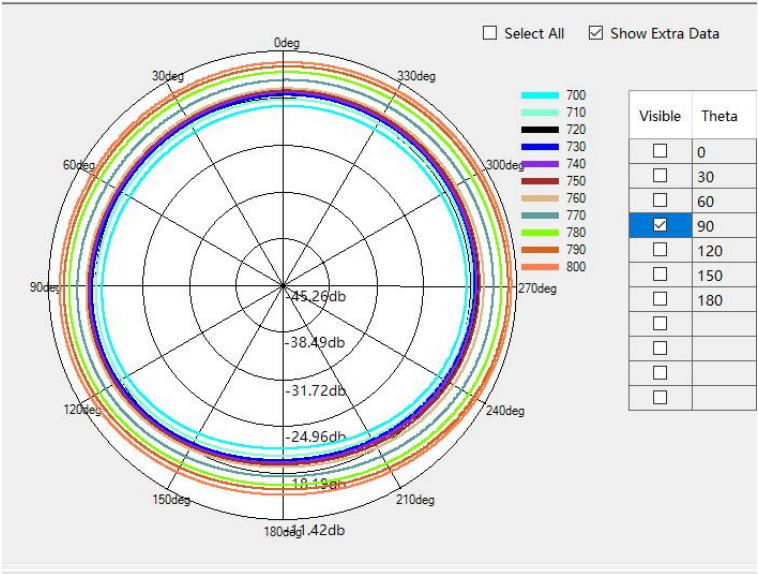
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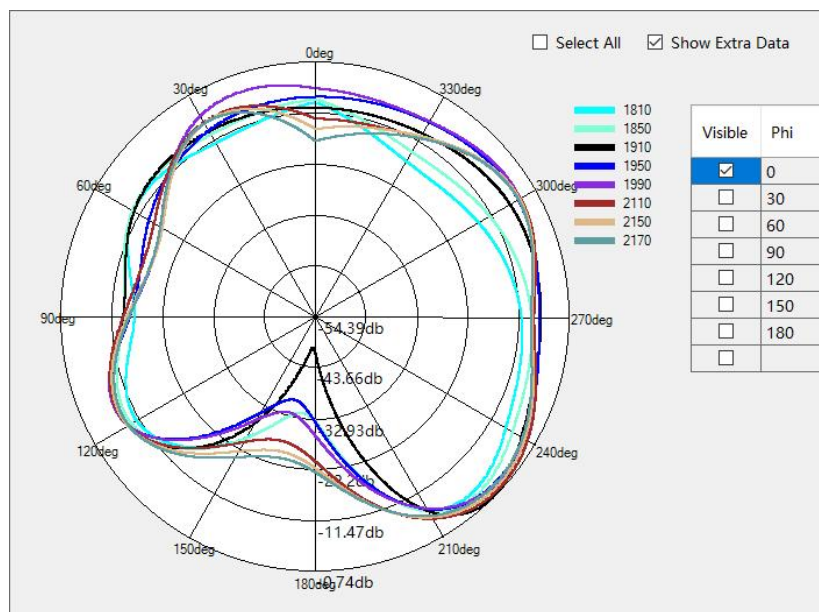
Phi=90



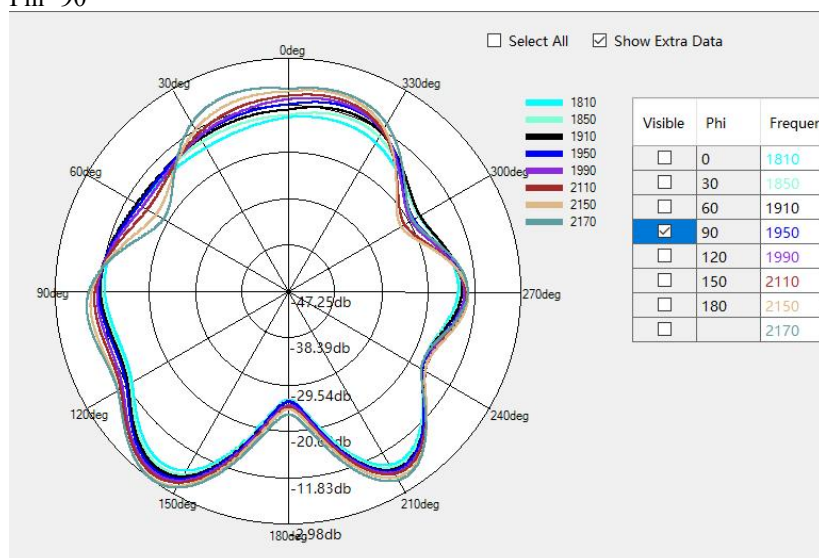
Theta=90



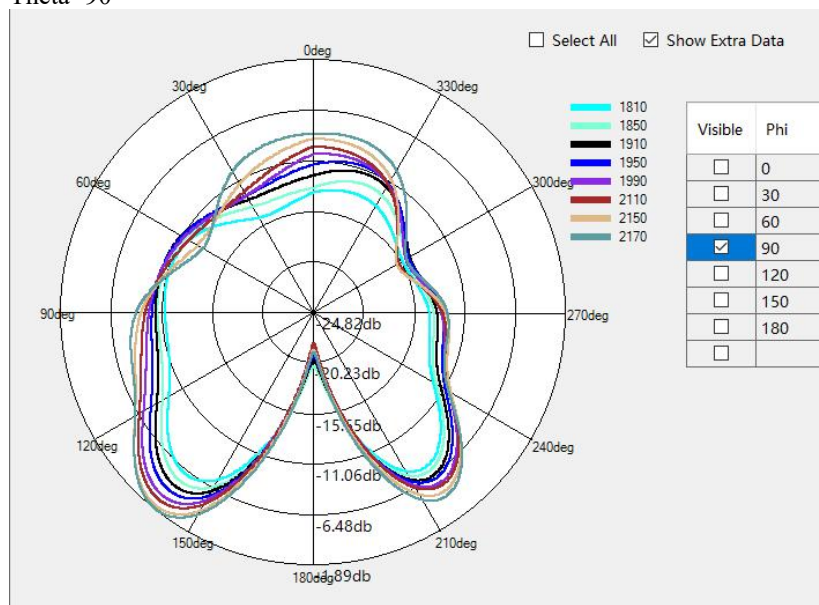
DIV MB Antenna
GSM 1800/1900/WCDMA W1/2/4LTEB FDD B1/2/3/4/66
Phi=0



Phi=90



Theta=90

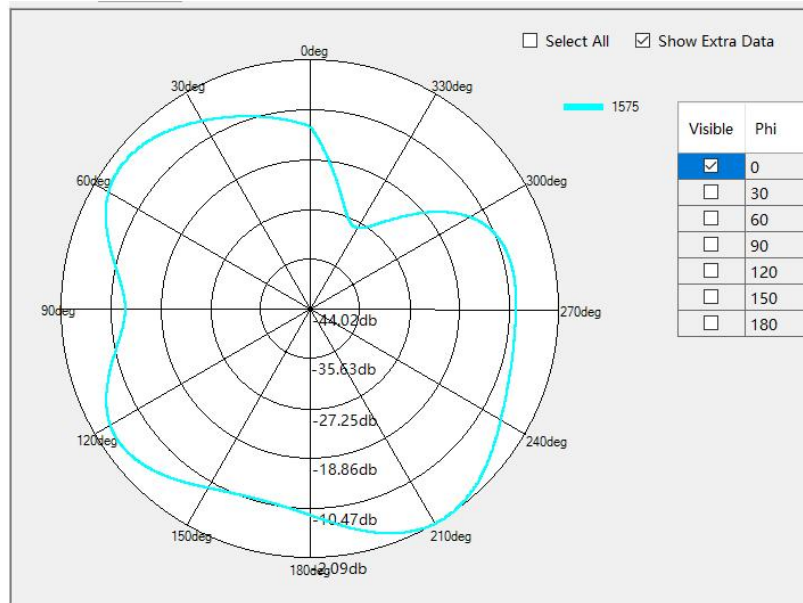


※ Antenna Gain

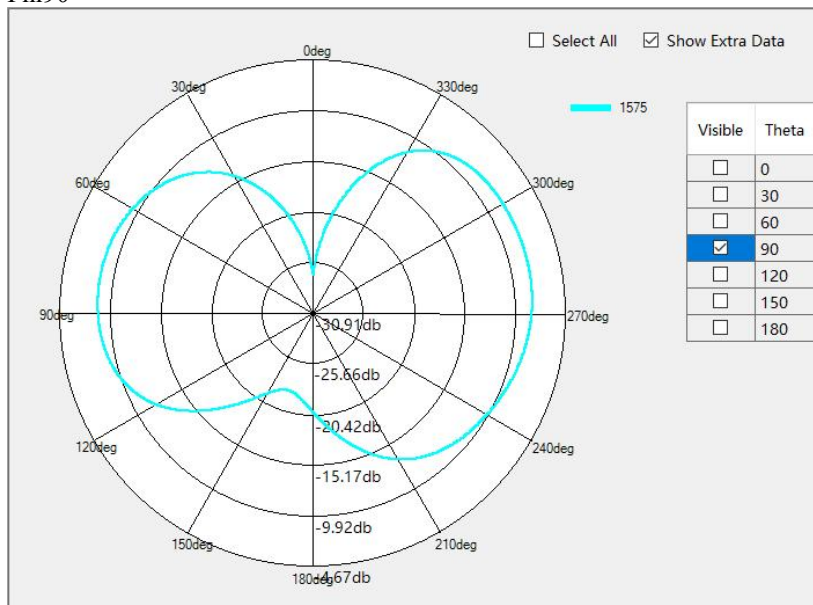
GPS/WIFI2.4+5G

GPS 1575.42

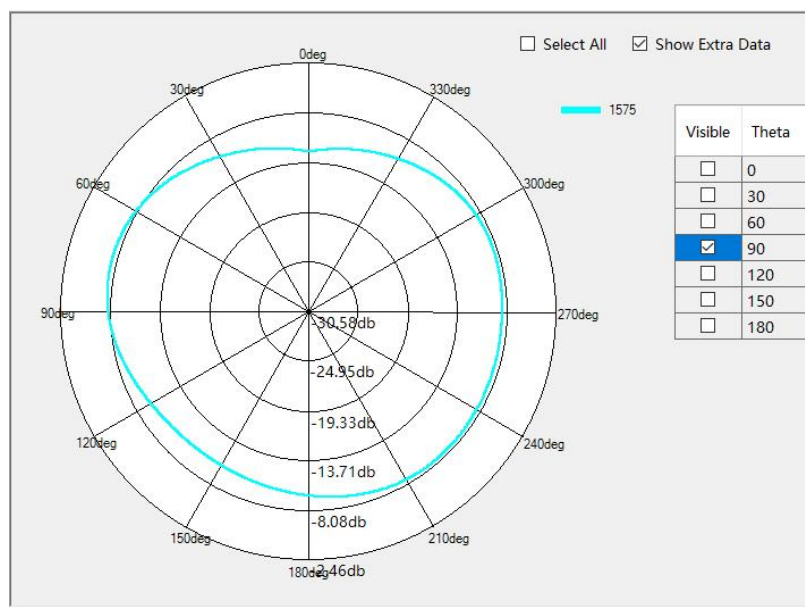
Phi0



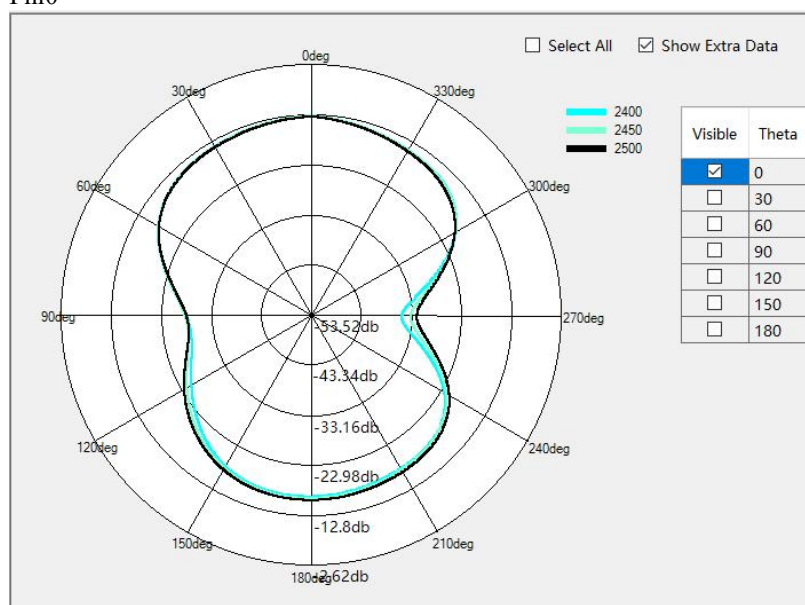
Phi90



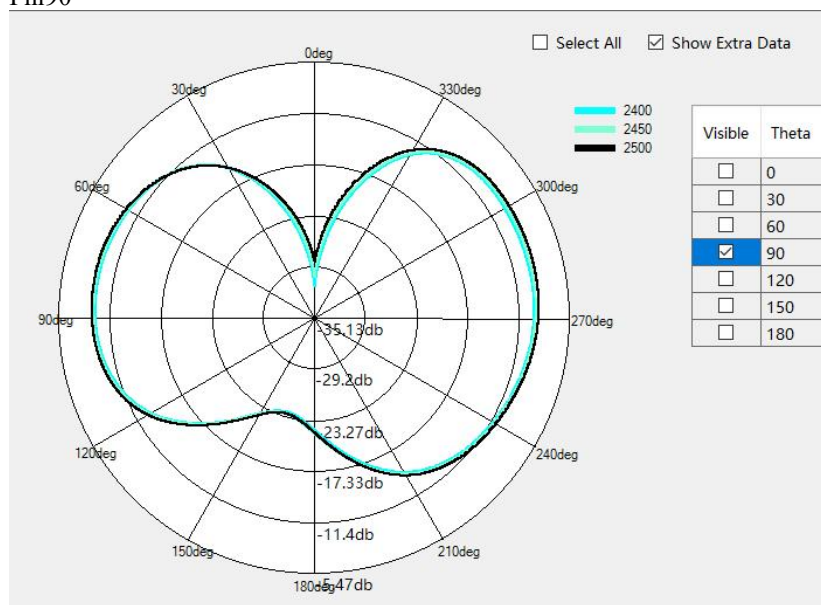
Pheta 90



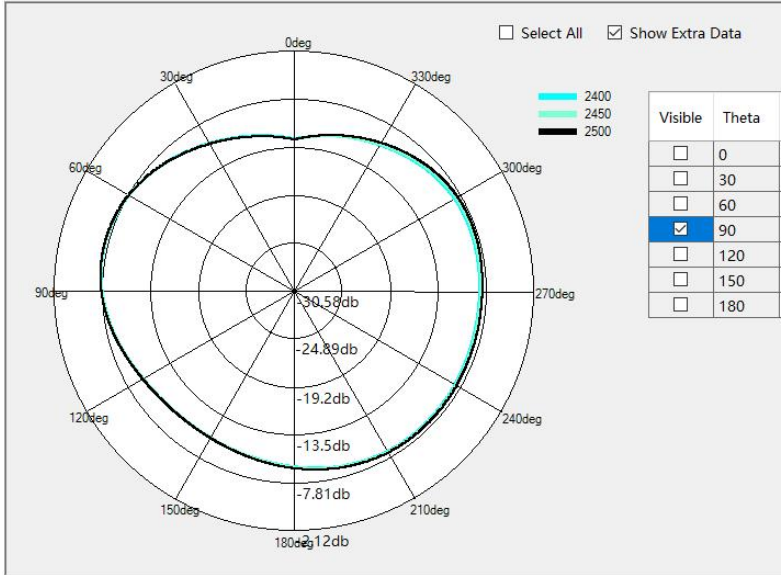
WIFI 2.45G Phi0



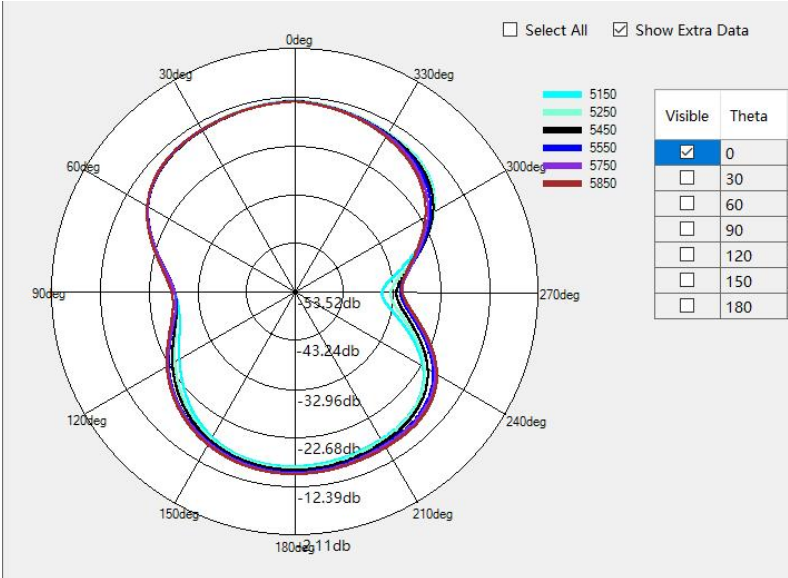
Phi90



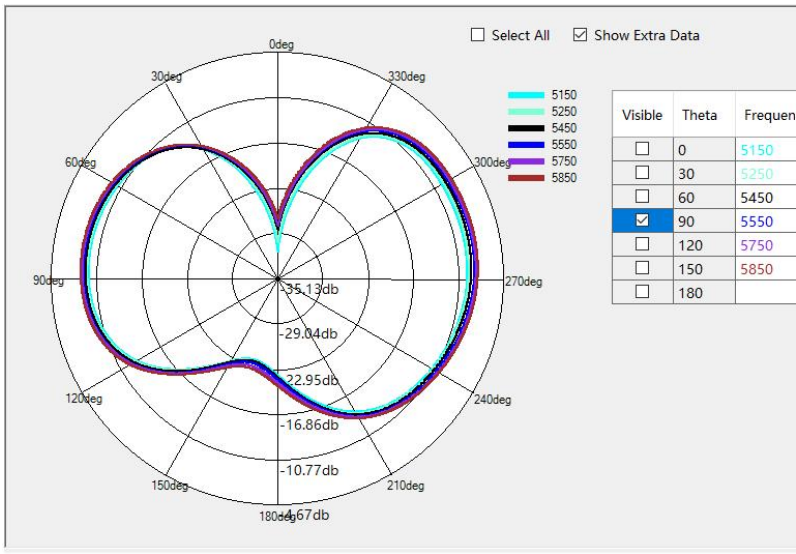
Pheta 90



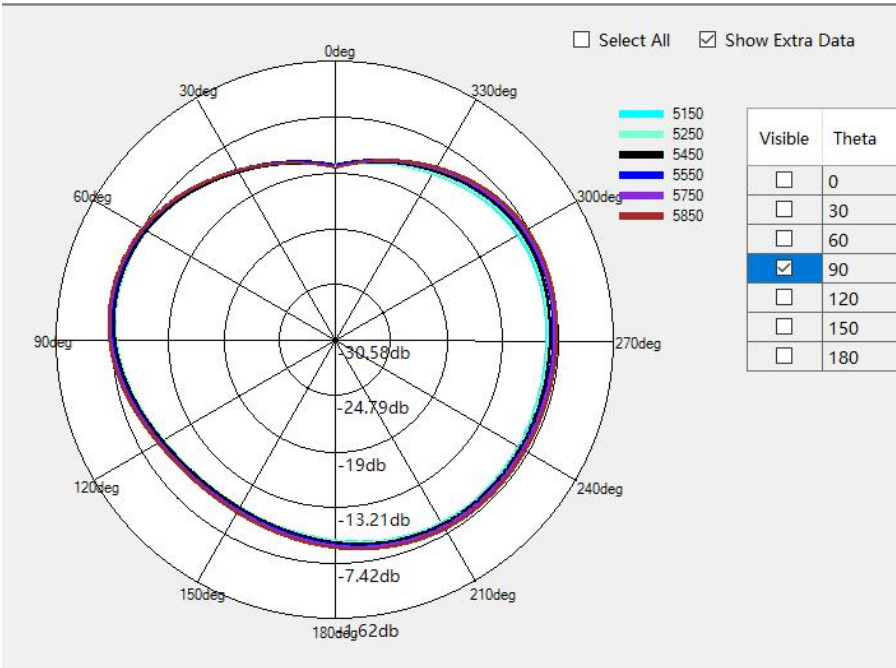
WIFI 5G
Phi0



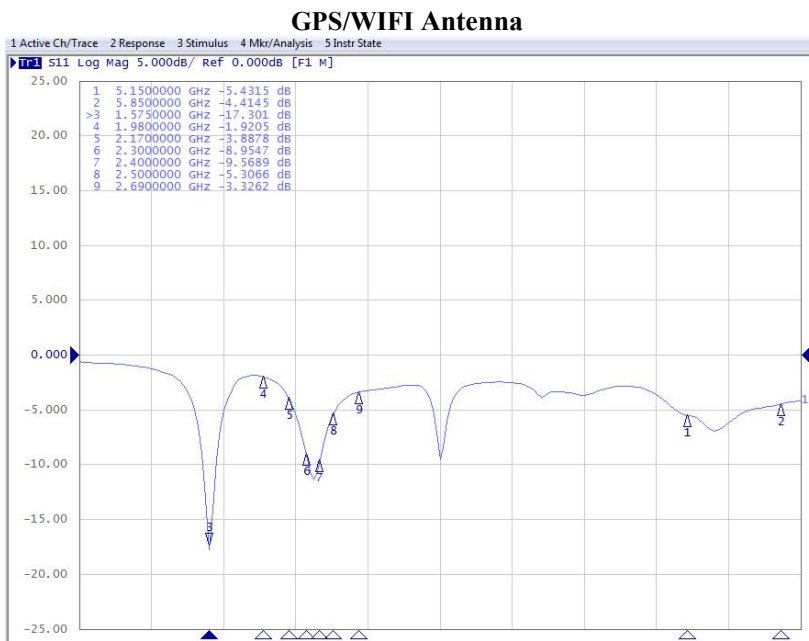
Phi90



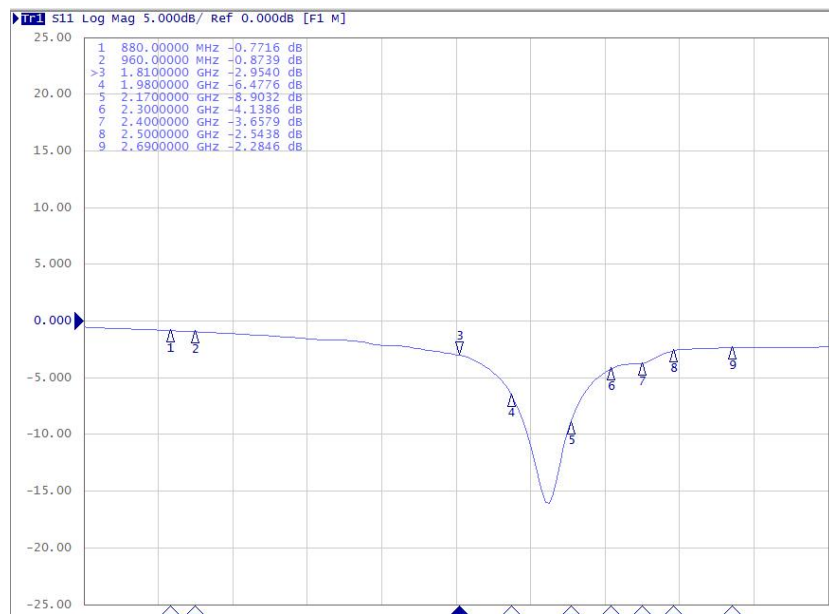
Pheta 90



※S11:

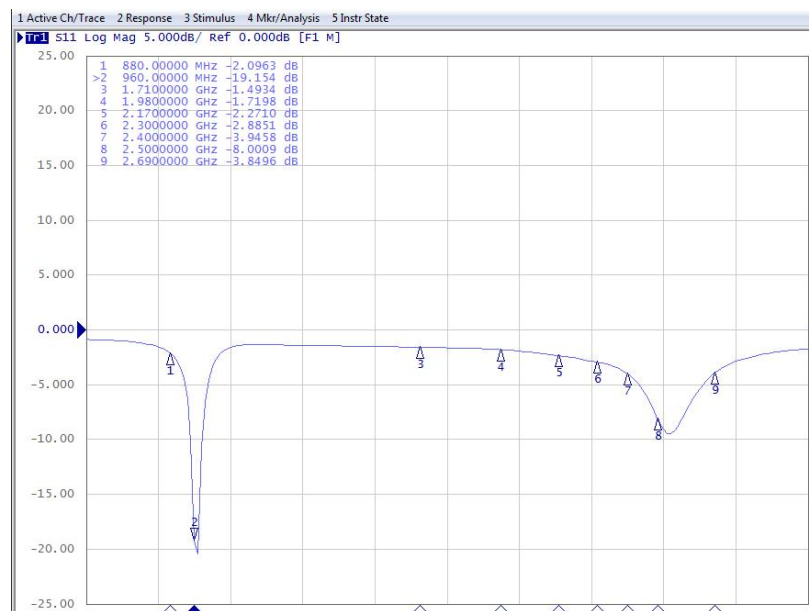


DIV MB Antenna
GSM 1800/1900/WCDMA W1/2/4LTEB FDD B1/2/3/4

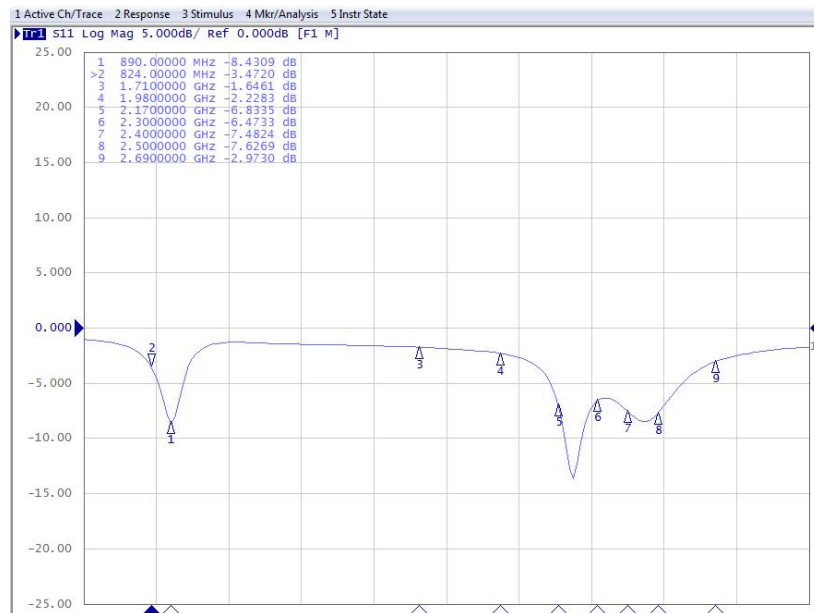


UANT Antenna

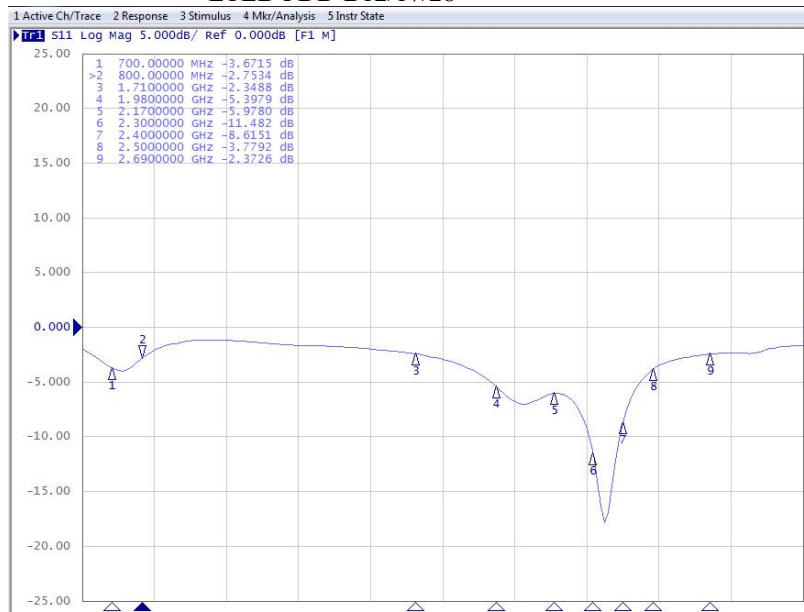
GSM/900 WCDMA W8 LTEB FDD B7/B8/TDD B38/B41



GSM/850 WCDMA W5 CDMA BC0 LTEB FDD B5 TDD B40

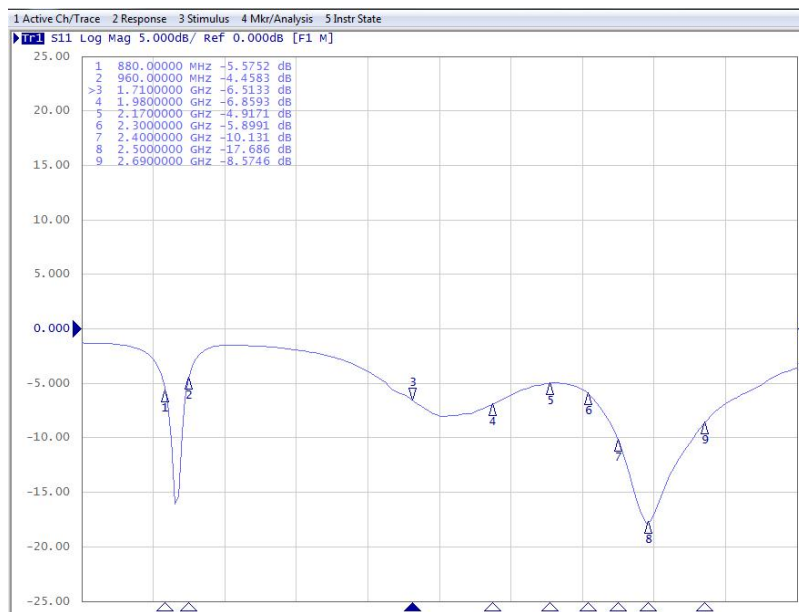


LTEB FDD B12/17/28

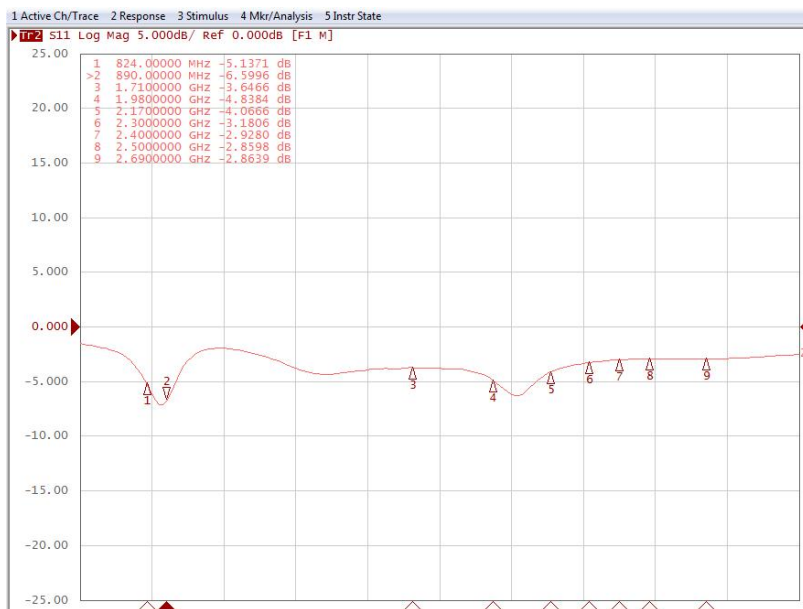


Main Antenna

GSM/900/DCS1800/PCS1900 WCDMA 1/2/4/8LTEB FDD B1/B2/B3/B4/B7/B8/TDD B38/40/B41



GSM/850 WCDMA5 CDMA BC0 LTEB FDD B5/20



LTEB FDD B12/17/28

