

## Feature

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

## Application

Ad1 配置

- ※ 2G:B2/B3/B5/B8  
3G:B1/B2/B4/B5/B8  
4G:B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B26/B28A/B28B/B38/B40/B41(120M)/B66

communication applications

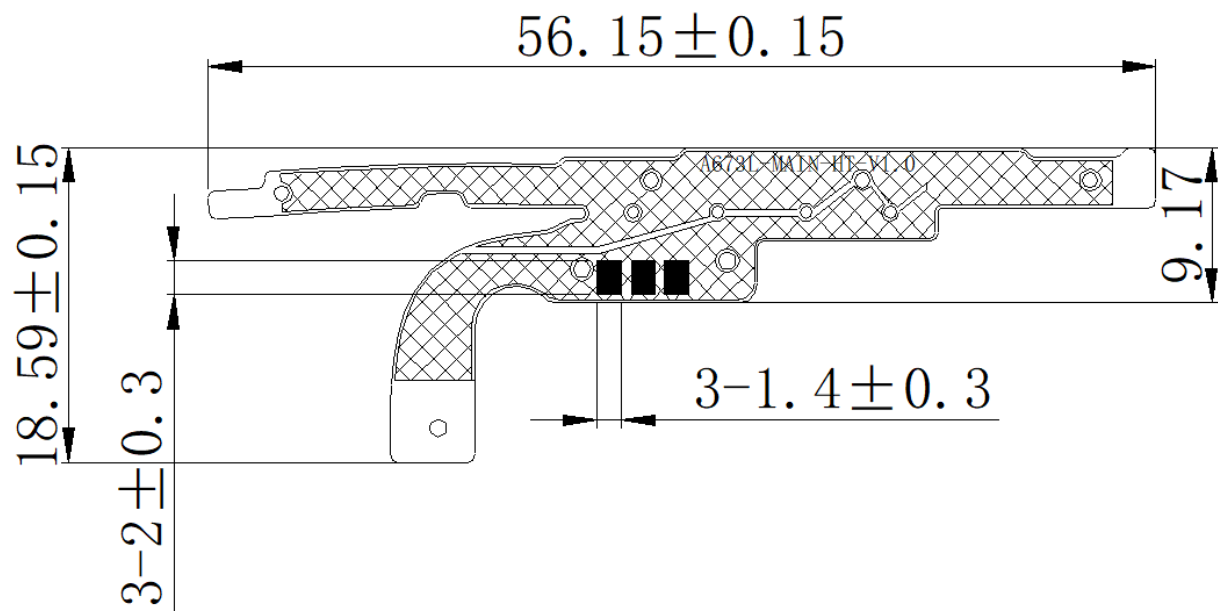
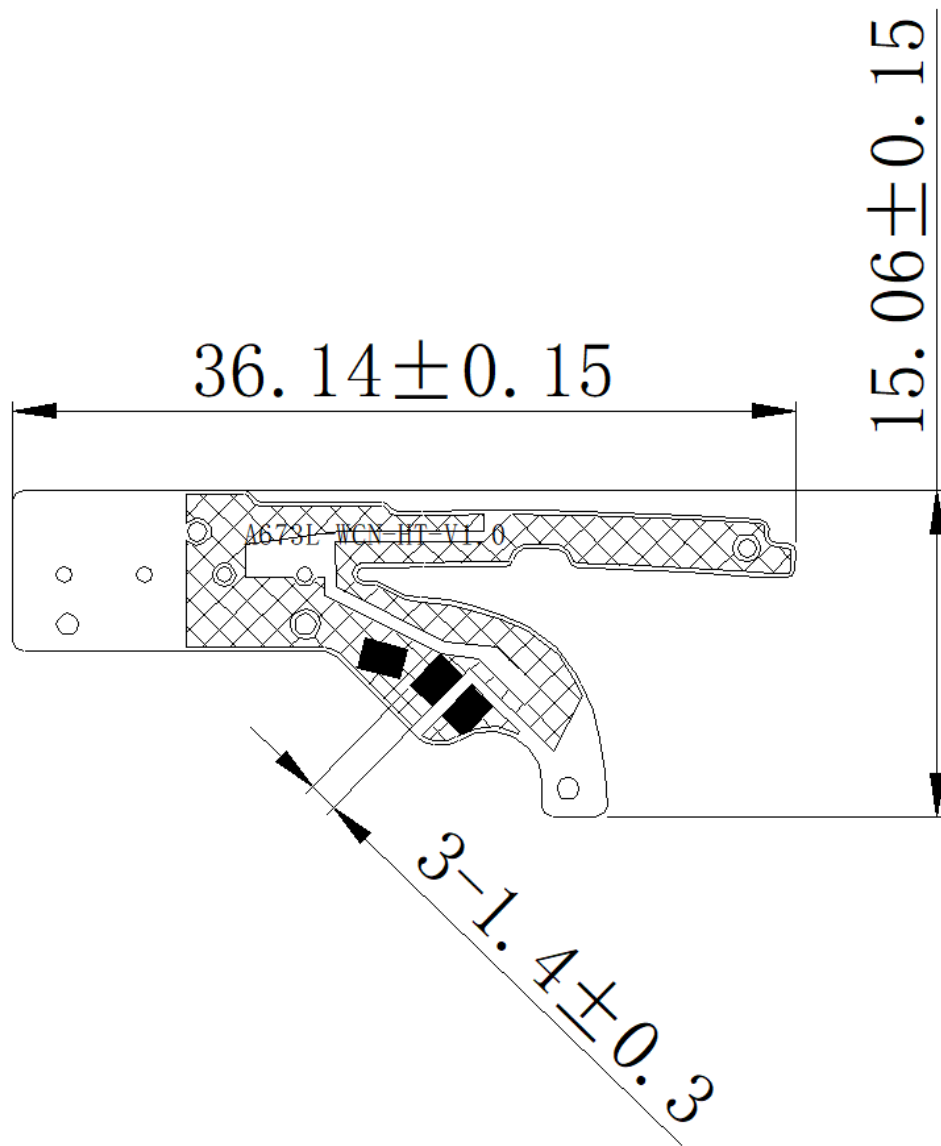
※Antenna manufacturer

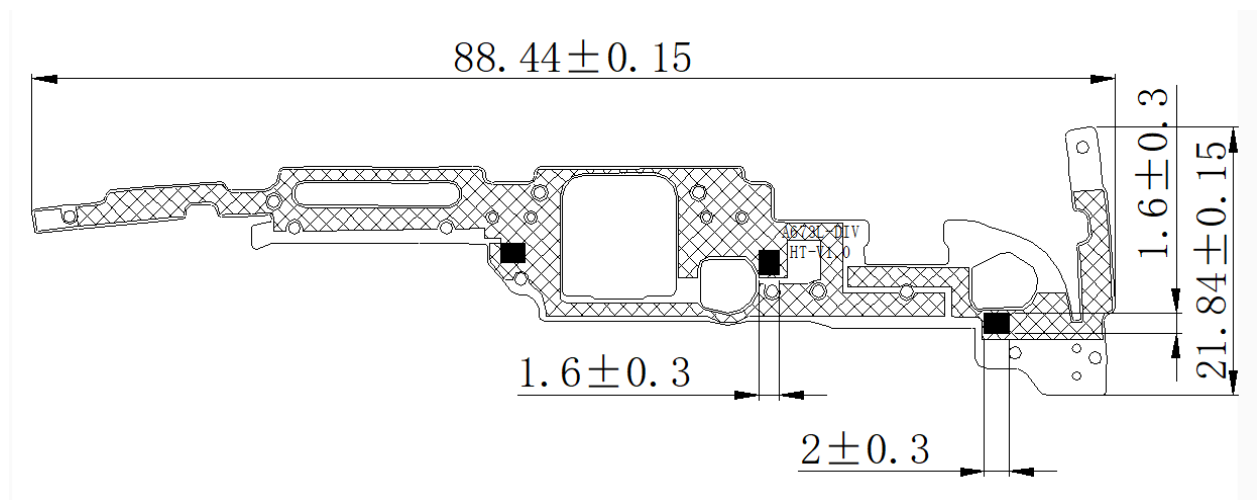
Zhejiang Haitong communications electronic Limited

浙江海通通讯电子股份有限公司

Chongqing R&D Center: Room 304, building 27, Xiantao Internation Data Valley, Yubei District, Chongqing city

※Antenna type





## Electric Specifications

| TYPE                  | FPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transmitter Frequency | GSM850: 824~849MHz(TX)<br>GSM900: 880-915MHz (TX)<br>DCS1800: 1710-1785MHz (TX)<br>PCS1900:1850-1910MHz (TX)<br>WCDMAband I: 1920~1980MHz(TX)<br>WCDMAband II:1850~1910MHz(TX)<br>WCDMAband IV:1710~1755MHz(TX)<br>WCDMAband V: 824~849MHz(TX)<br>WCDMAband VIII: 880~915MHz(TX)<br>LTE B1: 1920~1980MHz(TX)<br>LTE B2: 1850~1910MHz(TX)<br>LTE B3: 1710~1785MHz(TX)<br>LTE B4: 1710~1755MHz(TX)<br>LTE B5: 824~849MHzMHz(TX)<br>LTE B7: 2500~2570MHz(TX)<br>LTE B8: 880~915MHzMHz(TX)<br>LTE B12: 699~716MHz(TX)<br>LTE B17: 704~716MHz(TX)<br>LTE B20: 832~862MHz(TX)<br>LTE B26: 814~849MHz(TX)<br>LTE B28AB: 703~748MHz(TX)<br>LTE B38: 2570~2620MHz(TX)<br>LTE B40: 2300~2400MHz(TX) |

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | LTE B41: 2535~2655MHz(TX)<br>LTE B66: 1710~1780MHz(TX)<br>WIFI 2.4G:2412~2472 MHz<br>WIFI 5G:5180~5825 MHz<br>Bluetooth:2402 - 2480 MHz<br>GPS:1575.42MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Receiver Frequency           | GSM850: 869-894MHz (RX)<br>GSM900: 925-960MHz (RX)<br>DCS1800: 1805-1880MHz (RX)<br>PCS1900:1930-1990MHz (RX)<br>WCDMAband I:2110~2170MHz(RX)<br>WCDMAband II :1930~1990MHz(RX)<br>WCDMAband IV:2110~2155MHz(RX)<br>WCDMAband V: 869~894MHz(RX)<br>WCDMAband VIII: 925~960MHz(RX)<br>LTE B1: 2110~2170MHz(RX)<br>LTE B2: 1930~1990MHz(RX)<br>LTE B3: 1805~1880MHz(RX)<br>LTE B4: 2110~2155MHz(RX)<br>LTE B5: 869~894MHzMHz(RX)<br>LTE B7: 2620~2690MHz(RX)<br>LTE B8: 925~960MHzMHz(RX)<br>LTE B12: 729~746MHz(RX)<br>LTE B17: 734~746MHz(RX)<br>LTE B20: 791~821MHz(RX)<br>LTE B26: 859~894MHz(RX)<br>LTE B28AB: 758~803MHz(RX)<br>LTE B38: 2570~2620MHz(RX)<br>LTE B40: 2300~2400MHz(RX)<br>LTE B41: 2565~2645MHz(RX)<br>LTE B66: 2110~2200MHz(RX) |
| RF-Output Power<br>(E.I.R.P) | GSM850: 33+/-2dBm<br>GSM900: 33+/-2dBm<br>DCS1800:30+/-2dBm<br>PCS1900:30+/-2dBm<br>WCDMA 850: 22.5+/-2dBm<br>WCDMA 900: 22.5+/-2dBm<br>WCDMA 1700: 22.5+/-2dBm<br>WCDMA 1900: 22.5+/-2dBm<br>WCDMA 2100: 22.5+/-2dBm<br>LTE B1:22+/-2dBm<br>LTE B2:22+/-2dBm<br>LTE B3:22+/-2dBm<br>LTE B4:22+/-2dBm<br>LTE B5:22+/-2dBm                                                                                                                                                                                                                                                                                                                                                                                                                            |

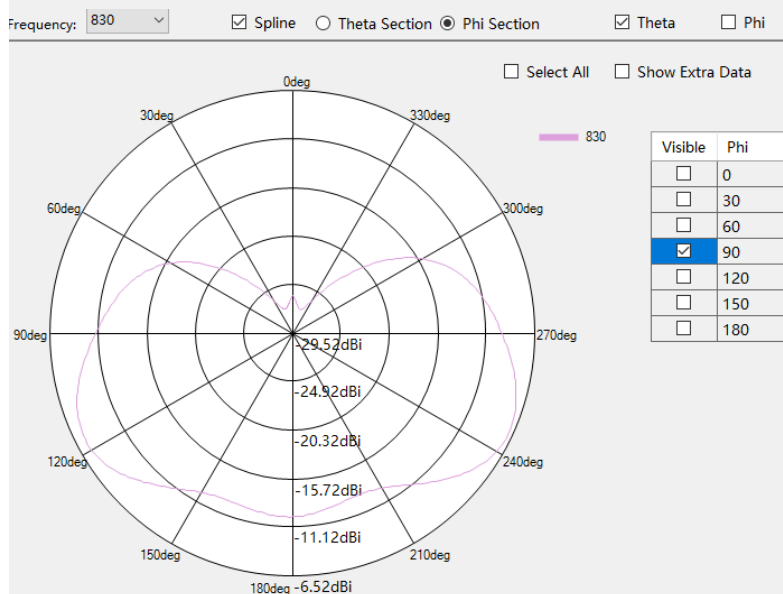
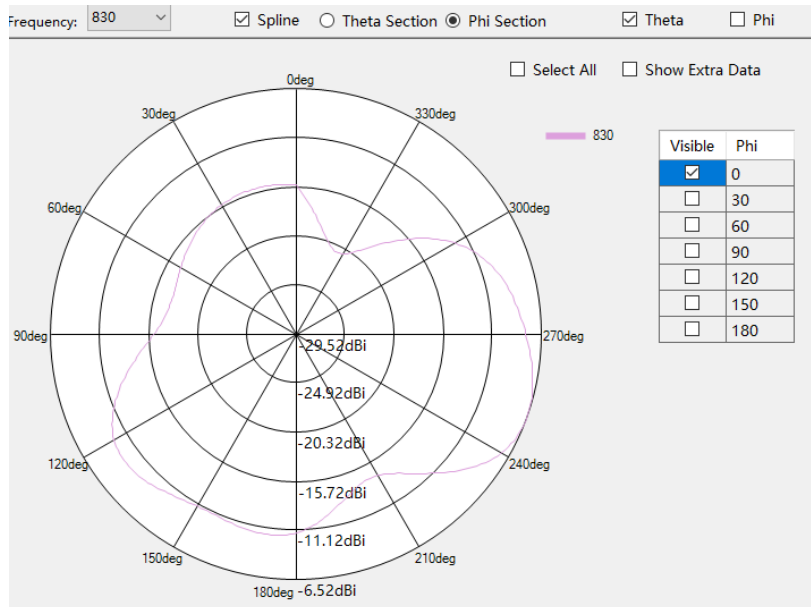
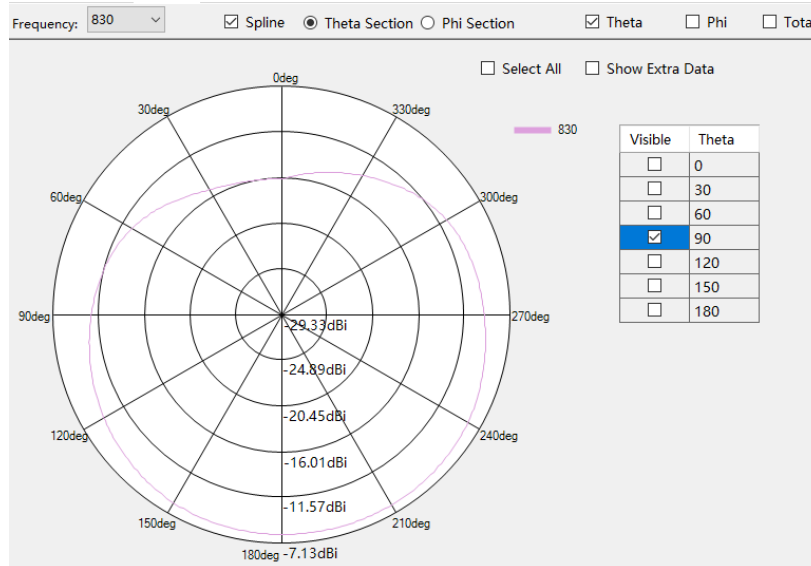
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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | LTE B7:22+/-2dBm<br>LTE B8:22+/-2dBm<br>LTE B12:22+/-2dBm<br>LTE B17:22+/-2dBm<br>LTE B20:22+/-2dBm<br>LTE B26:22+/-2dBm<br>LTE B28AB:22+/-2dBm<br>LTE B38:22+/-2dBm<br>LTE B40:22+/-2dBm<br>LTE B41:22+/-2dBm<br>LTE B66:22+/-2dBm                                                                                                                                                                                                                                                                                                                                                        |
| Antenna Gain(Main) | GSM850:-5.89dBi<br>GSM900:-4.21dBi<br>DCS1800:-2.27dBi<br>PCS1900:-2.87dBi<br>WCDMA 850:-5.99dBi<br>WCDMA 900:-4.35dBi<br>WCDMA 1700:-2.73dBi<br>WCDMA 1900:-2.89Bi<br>WCDMA 2100:-2.05dBi<br>LTE B1:-2.05dBi<br>LTE B2:-2.89dBi<br>LTE B3:-2.73dBi<br>LTE B4:-2.73dBi<br>LTE B5:-5.89dBi<br>LTE B7:-2.42dBi<br>LTE B8:-4.91dBi<br>LTE B12:-6.12dBi<br>LTE B17:-6.15dBi<br>LTE B20:-4.98dBi<br>LTE B26:-5.32dBi<br>LTE B28AB:-5.65dBi<br>LTE B38:-2.78dBi<br>LTE B40:-5.45dBi<br>LTE B41:-2.68dBi<br>LTE B66:-2.73dBi<br>GPS:-1.76dBi<br>WIFI 2.4G:-1.65dBi WIFI 5G:0.64dBi<br>BT:-1.65dBi |
| Antenna Gain(Div)  | GSM850:-5.75dBi<br>GSM900:-5.86dBi<br>DCS1800:-4.52dBi<br>PCS1900:-3.99dBi<br>WCDMA 850:-5.75dBi<br>WCDMA 900:-5.86dBi<br>WCDMA 1800:-4.55dBi<br>WCDMA 1900:-3.97dBi<br>WCDMA 2100:-2.33dBi<br>LTE B1:-2.15dBi<br>LTE B2:-4.59dBi<br>LTE B3:-4.54dBi<br>LTE B4:-3.76dBi<br>LTE B5:-5.76dBi                                                                                                                                                                                                                                                                                                 |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | LTE B7:-2.75dBi<br>LTE B8:-5.77dBi<br>LTE B12:-9.88dBi<br>LTE B17:-9.78dBi<br>LTE B20:-9.45dBi<br>LTE B26:-5.79dBi<br>LTE B28AB:-8.76dBi<br>LTE B38:-2.78dBi<br>LTE B40:-3.89dBi<br>LTE B41:-2.55dBi<br>LTE B66:-2.32dBi                                                                                                                                                                                                                                                                                                                                        |
| Power of antenna:  | GSM850:25.0dBm<br>GSM900:25.15dBm<br>DCS1800:24.7dBm<br>PCS1900:25.1dBm<br>WCDMA 850:15.2dBm<br>WCDMA 900:15.1dBm<br>WCDMA 1700:17.7dBm<br>WCDMA 1900:18.3dBm<br>WCDMA 2100:17.5dBm<br>LTE B1:17.8dBm<br>LTE B2:18dBm<br>LTE B3:17.7dBm<br>LTE B4:18.1dBm<br>LTE B5:15.3dBm<br>LTE B7:17.8dBm<br>LTE B8:15.1dBm<br>LTE B12:14.3dBm<br>LTE B17:14.3dBm<br>LTE B20:14.8Bm<br>LTE B26:16.4dBm<br>LTE B28AB:14.dBm<br>LTE B38:17.5dBm<br>LTE B40:16.1dBm<br>LTE B41:17dBm<br>LTE B66:17.89dBm<br>WIFI-2.4G:12.6dBm    WIFI-5G:13.8dBm<br>GPS:-151.84<br>BT:2.43 dBm |
| Type of Modulation | GMSK/8PSK/QPSK/16QAM/64QAM/GFSK, $\pi/4$ -DQPSK,8DPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

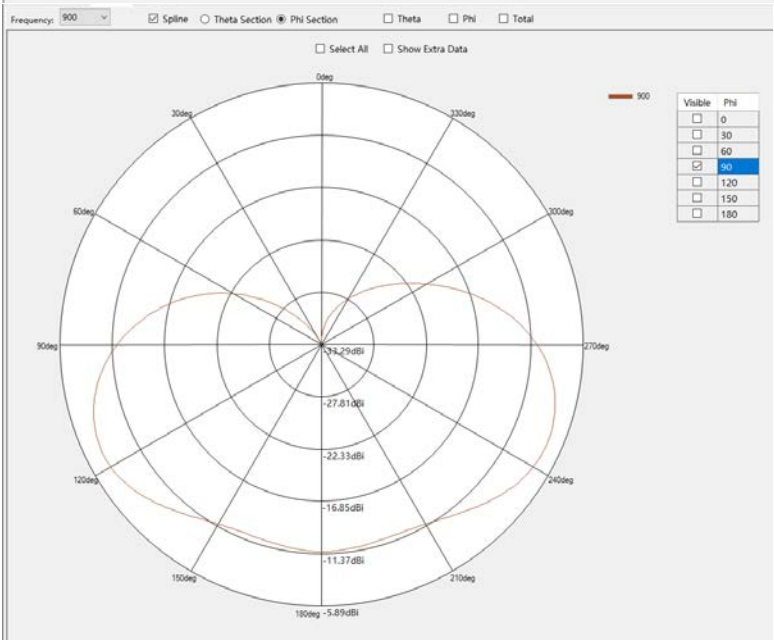
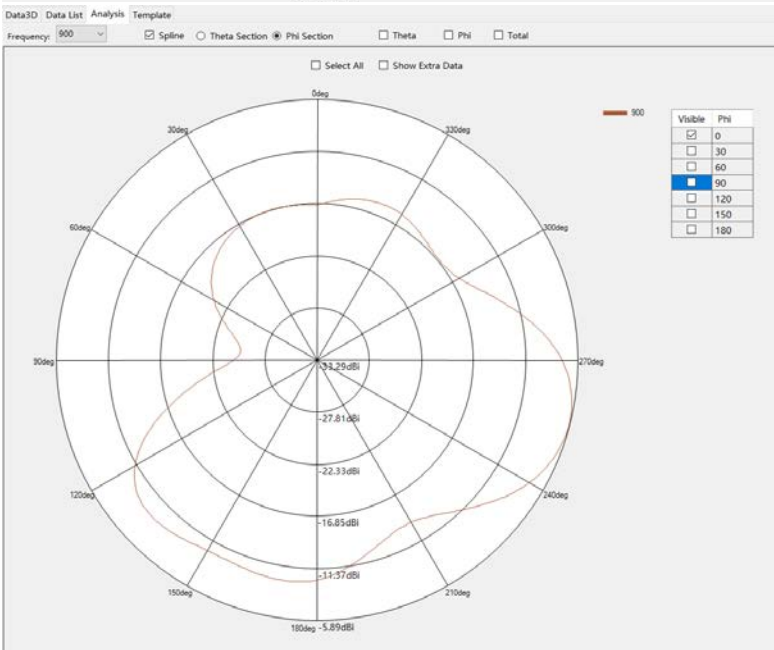
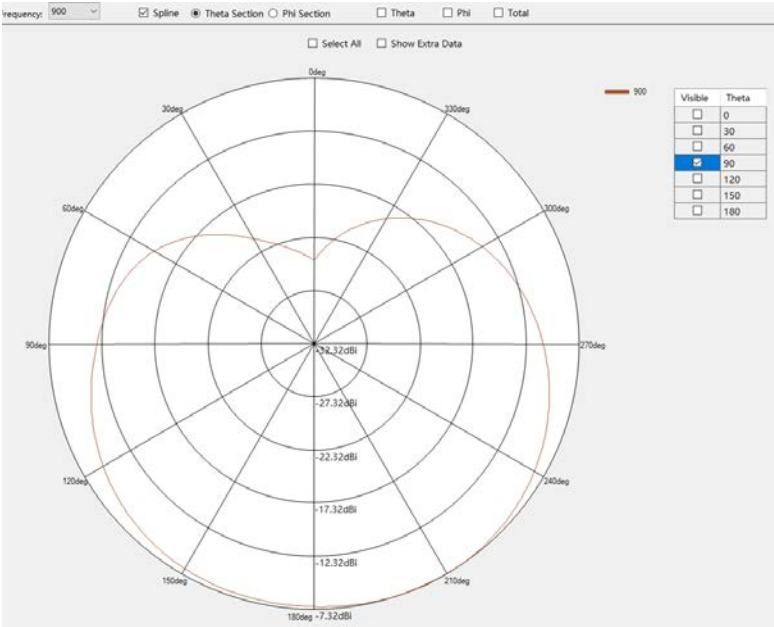
# ※ Antenna Gain

## Main Antenna

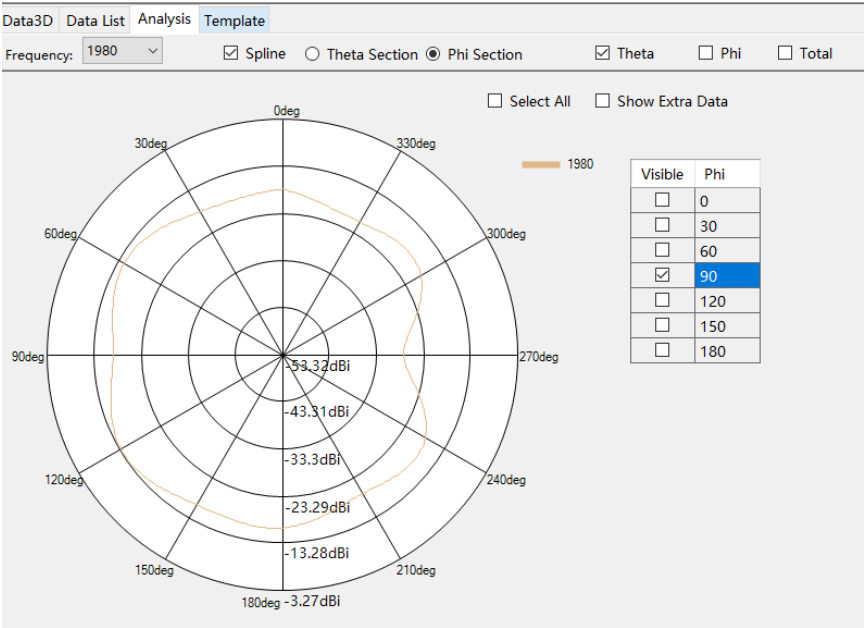
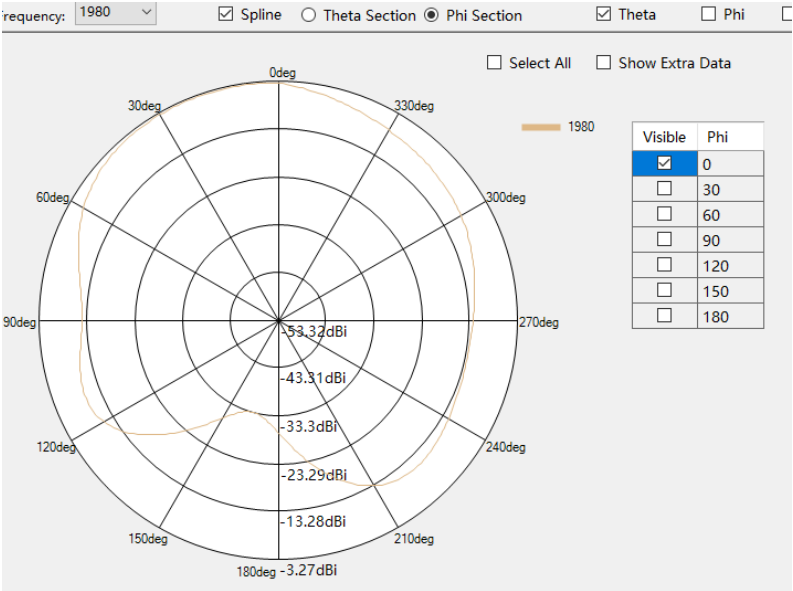
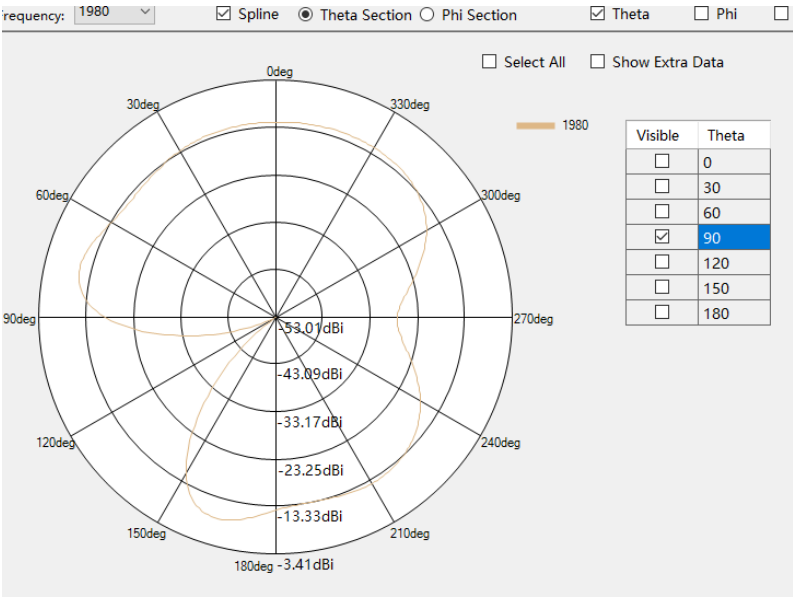
GSM850/B5/B20/B26



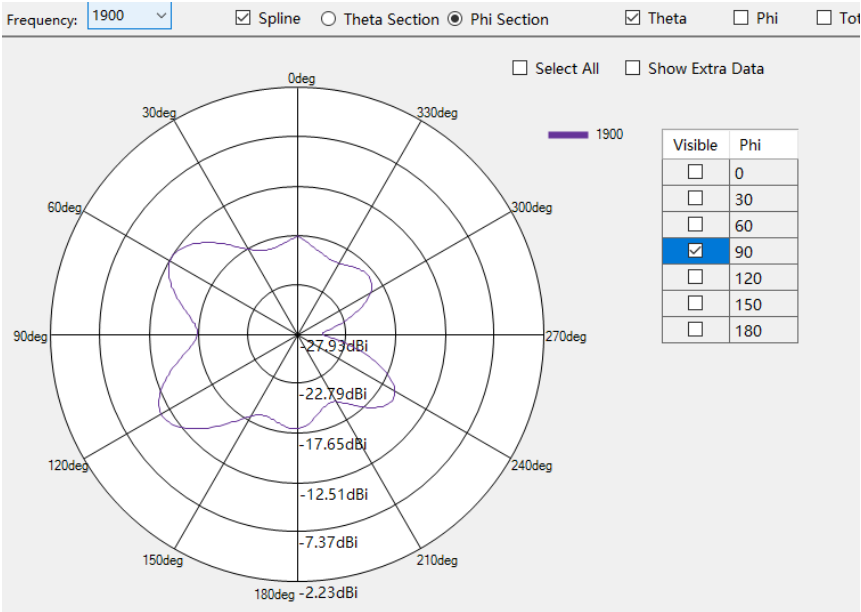
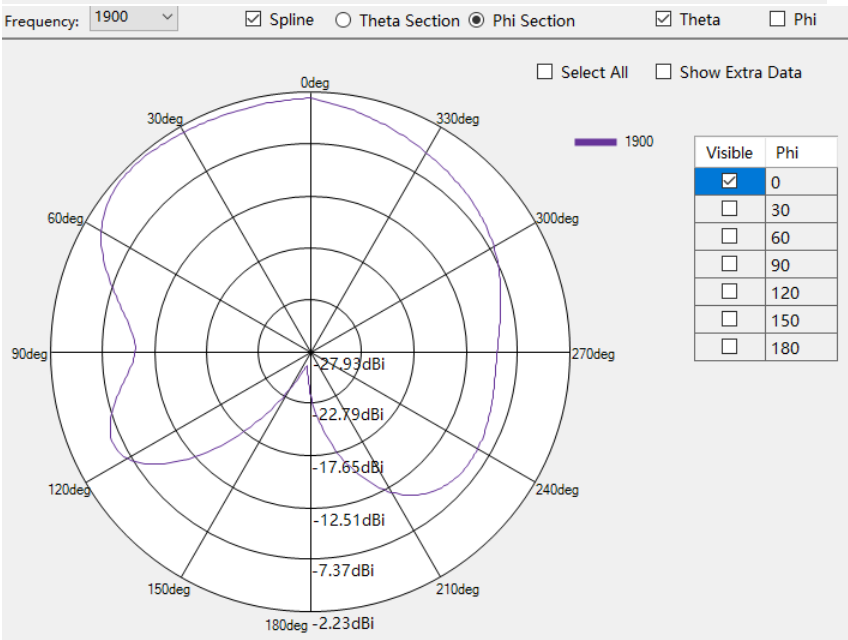
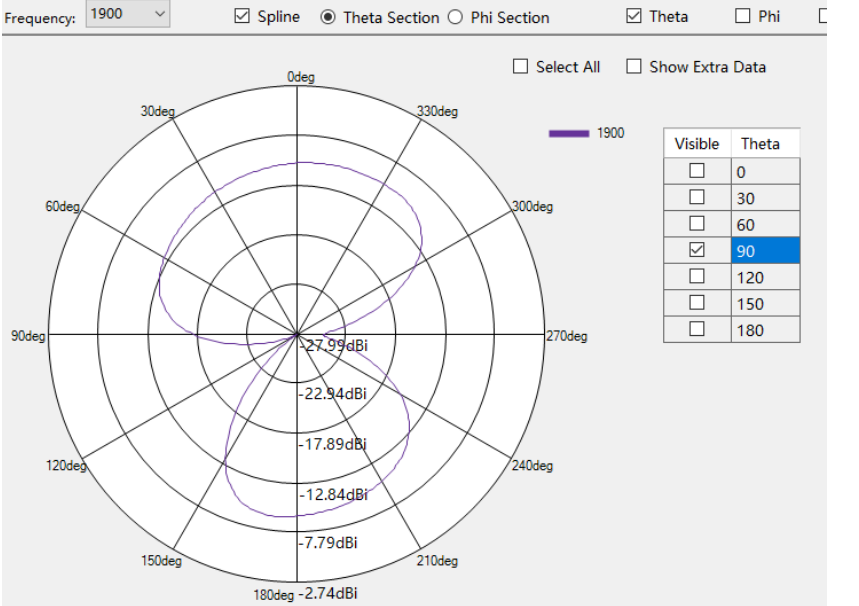
GSM900/W8/B8



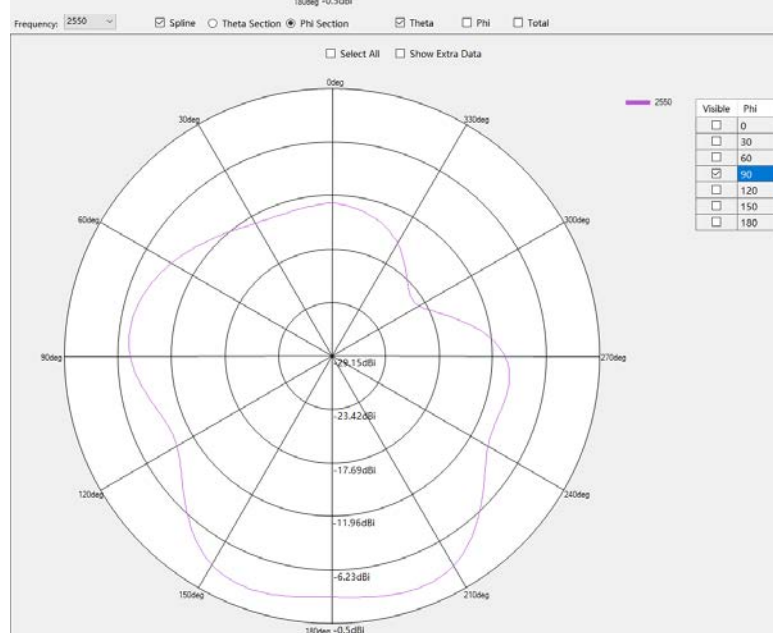
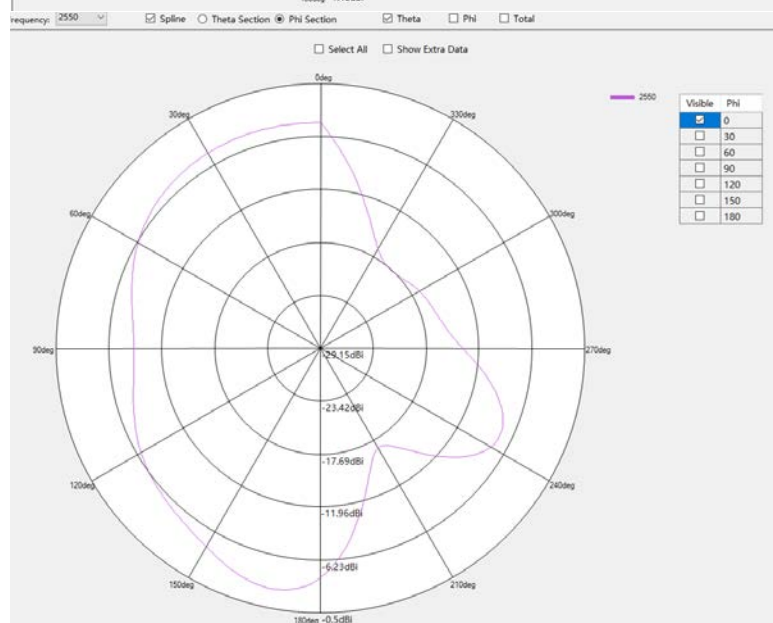
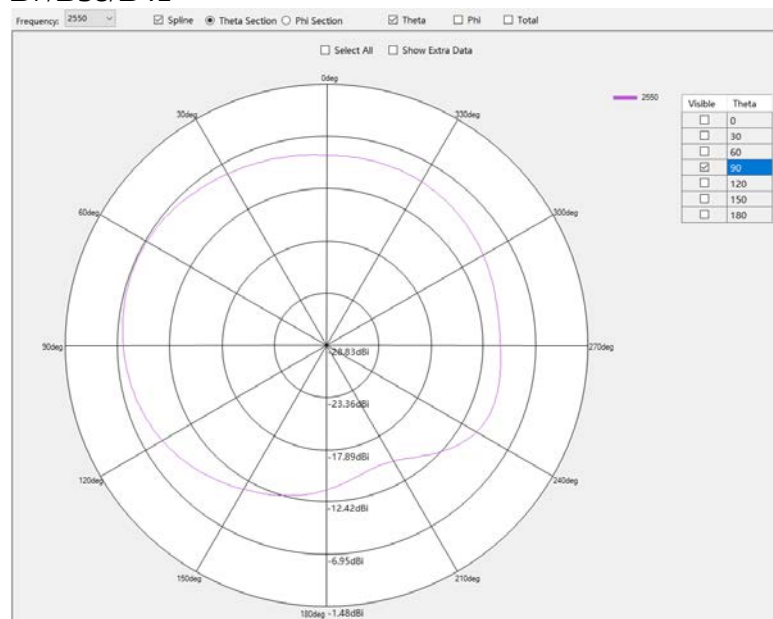
DCS1800/W4/B3/B4/B66



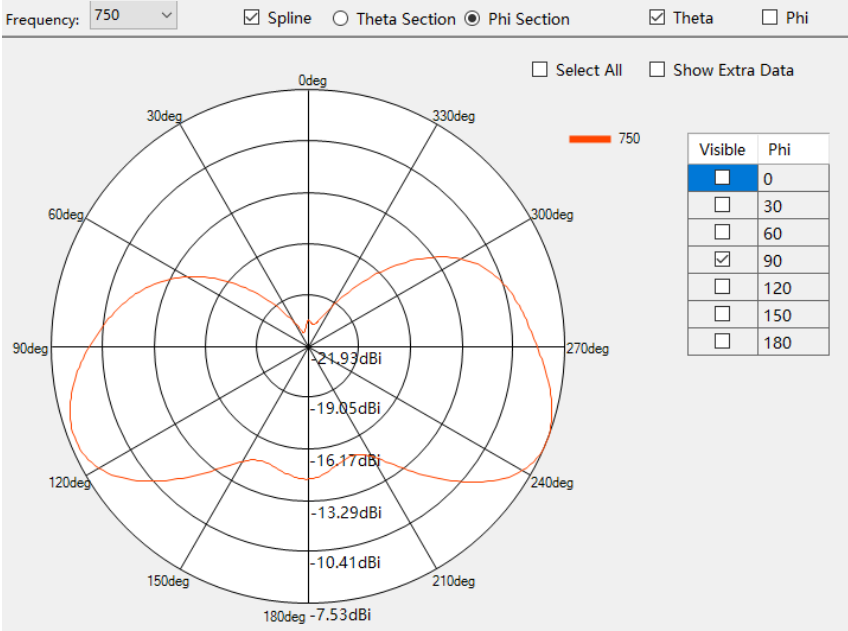
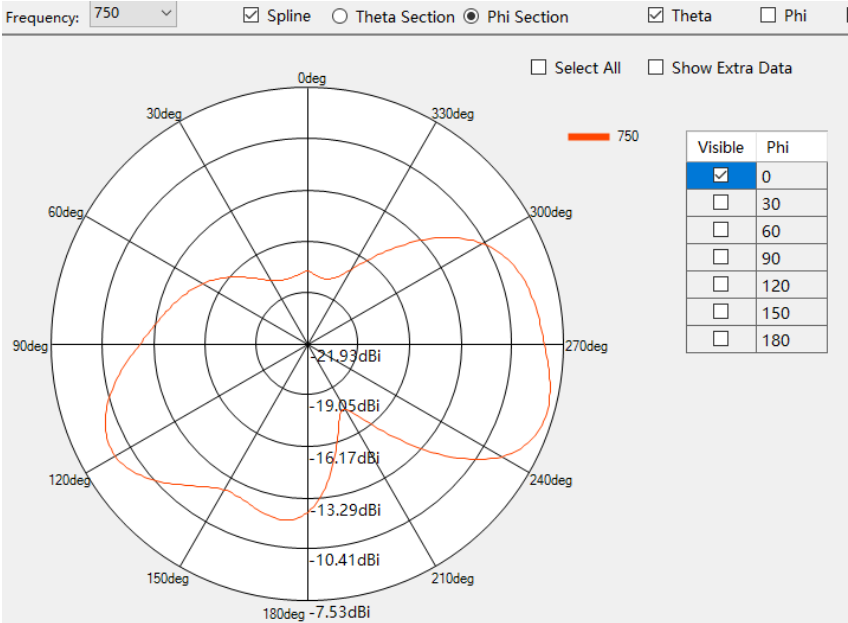
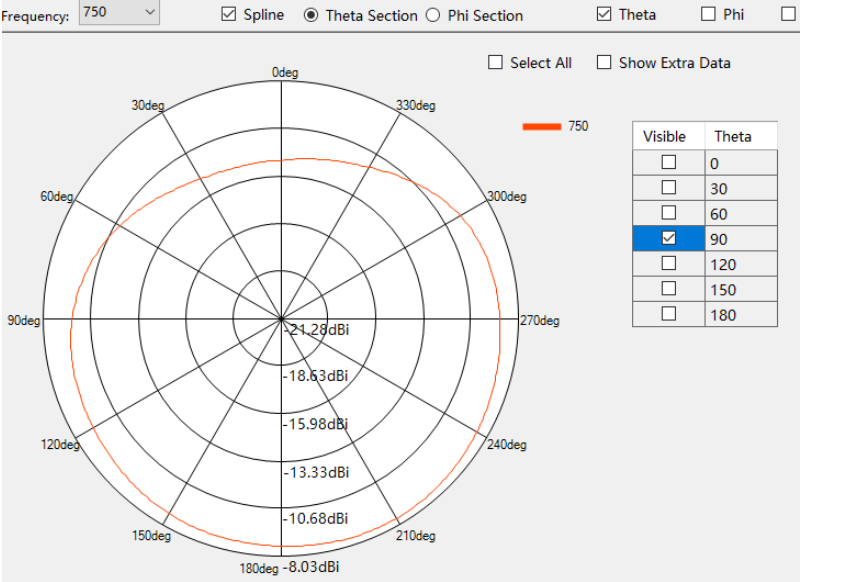
B1/B2/W1/W2/PCS1900/W2/B2



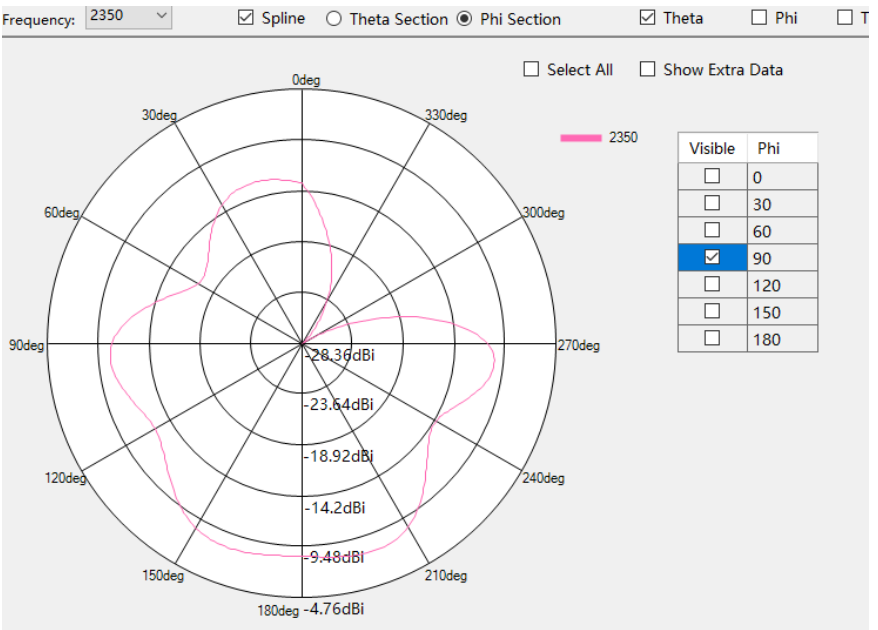
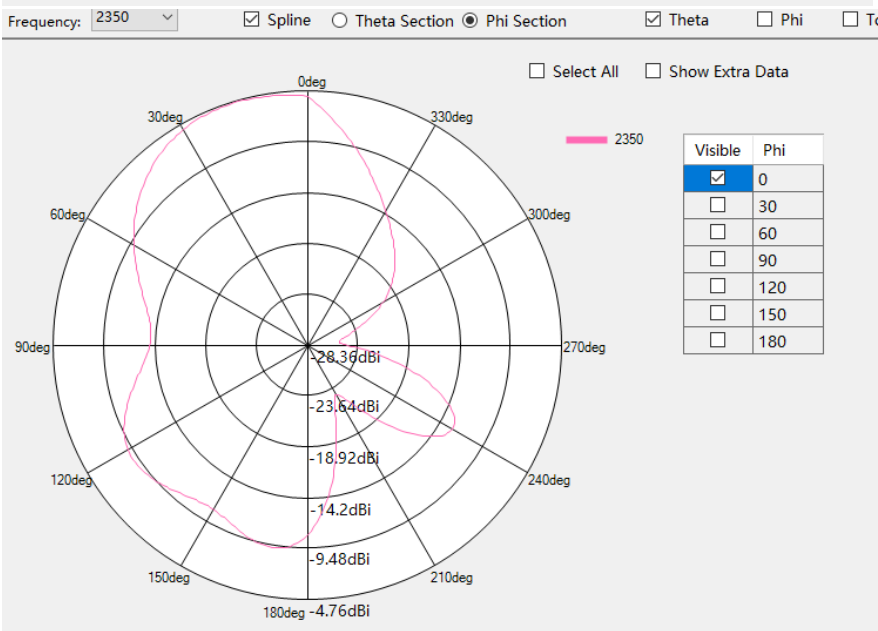
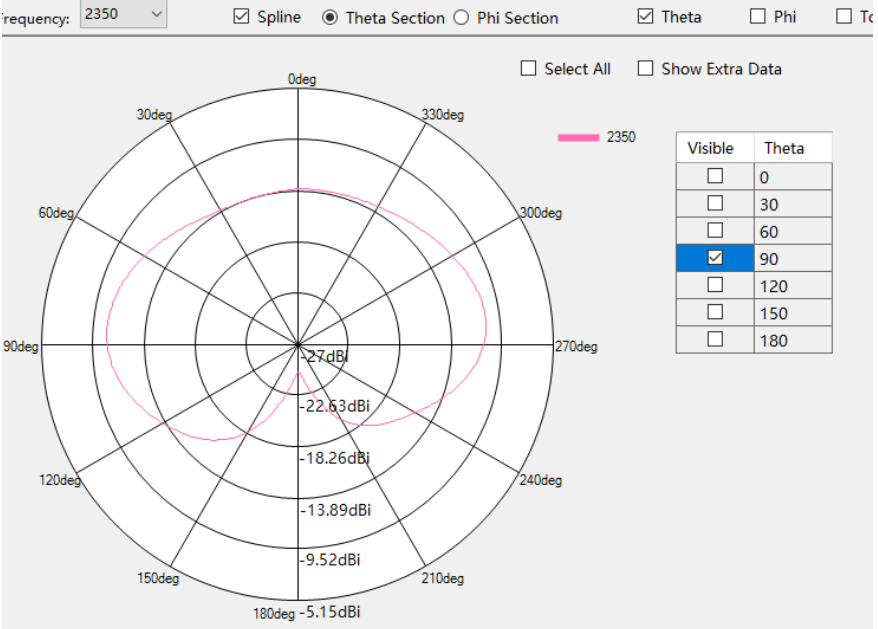
# B7/B38/B41



B12/B17/B28A/B28B

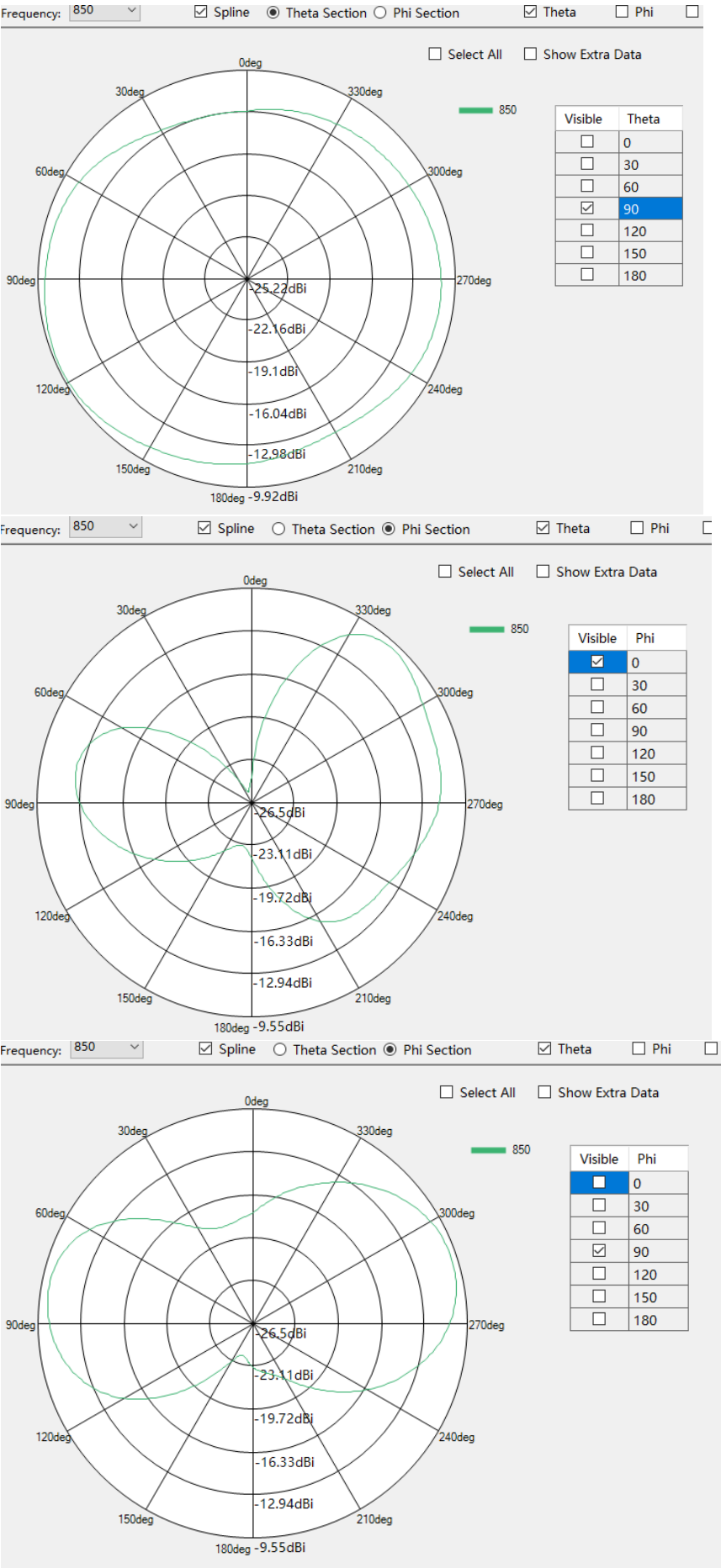


B40

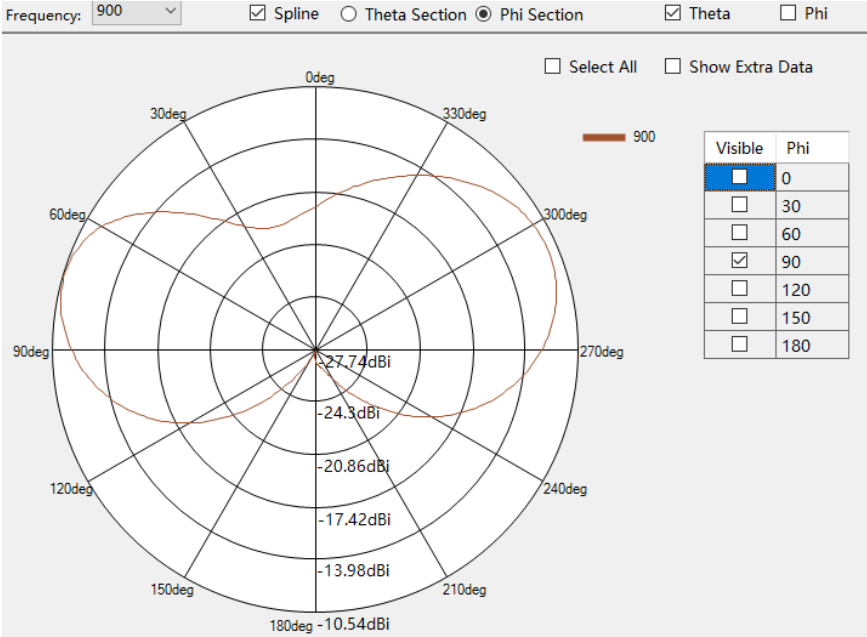
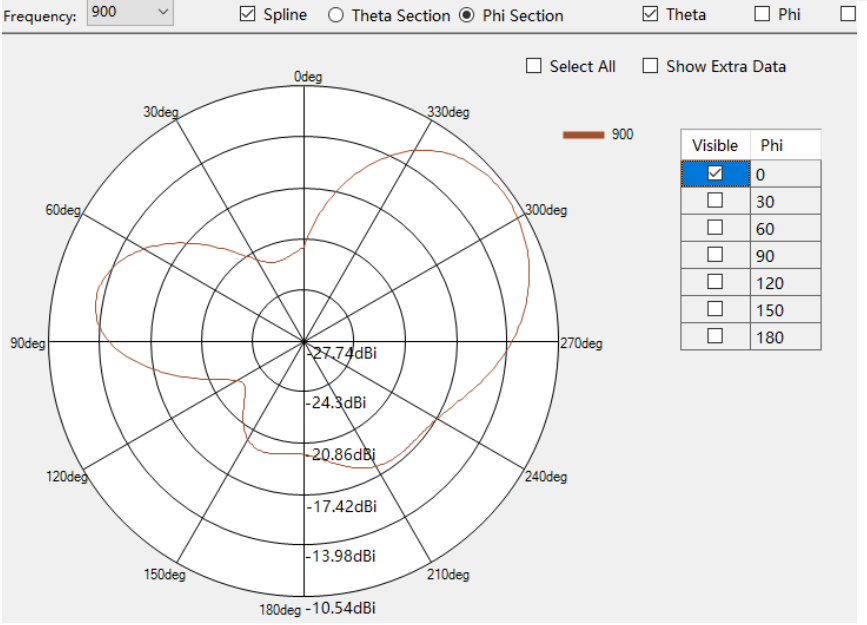
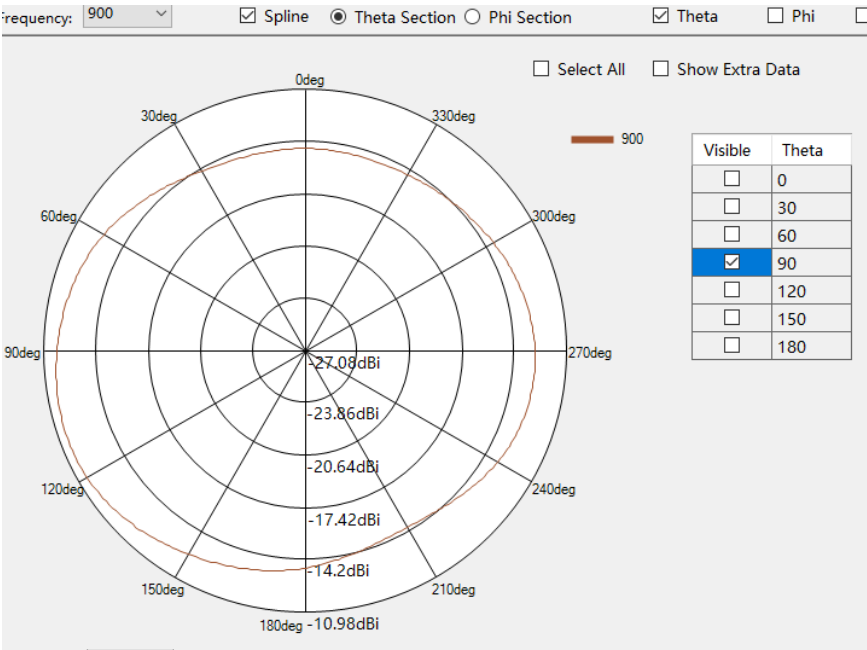


Div Antenna

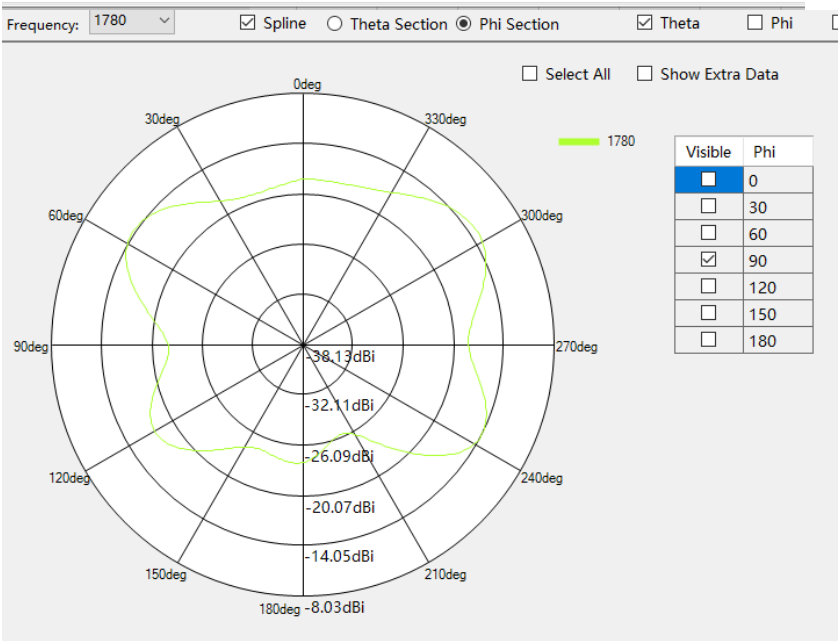
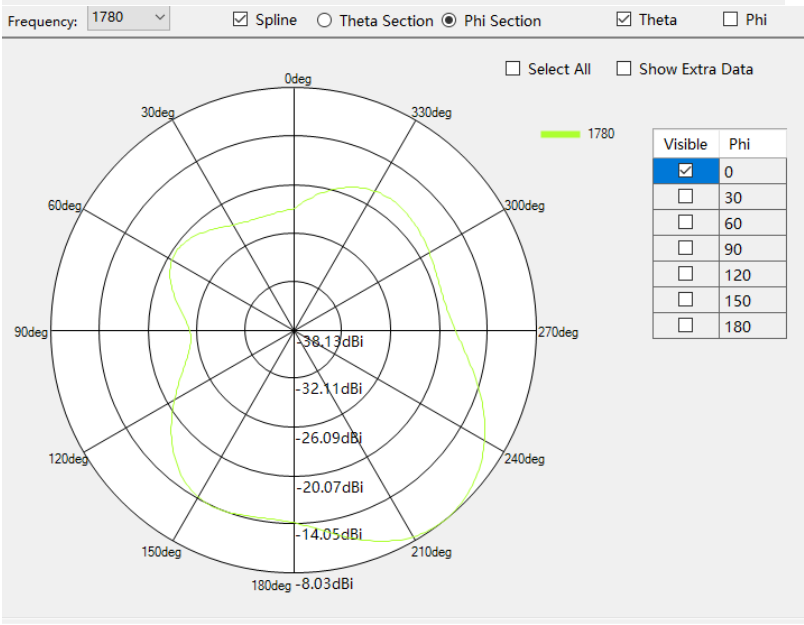
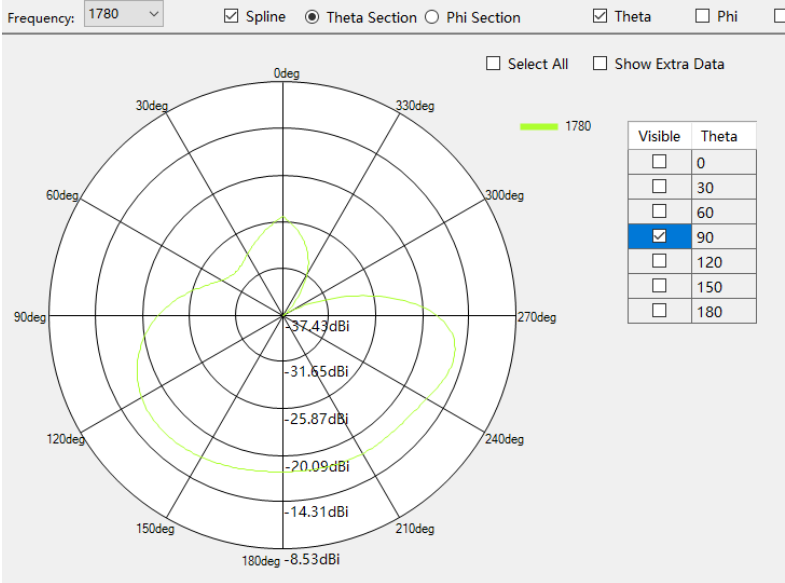
GSM850/W5/B5/B26



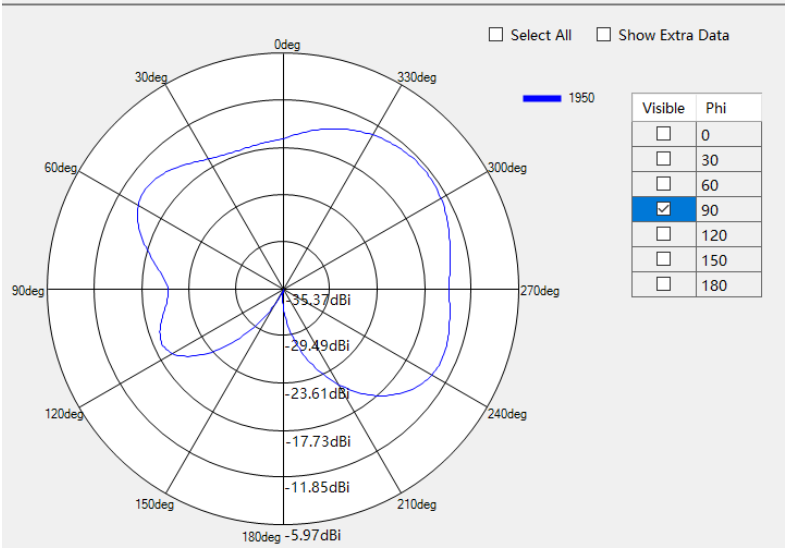
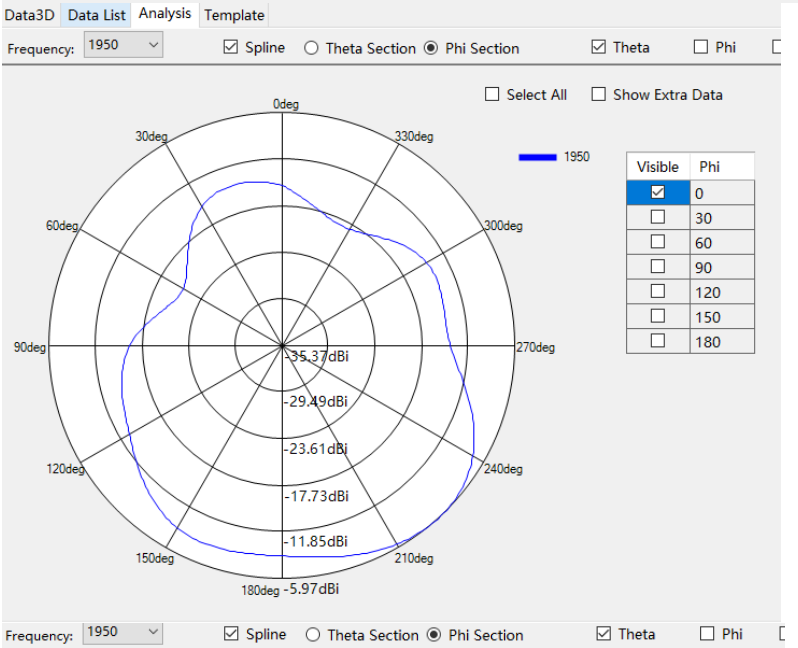
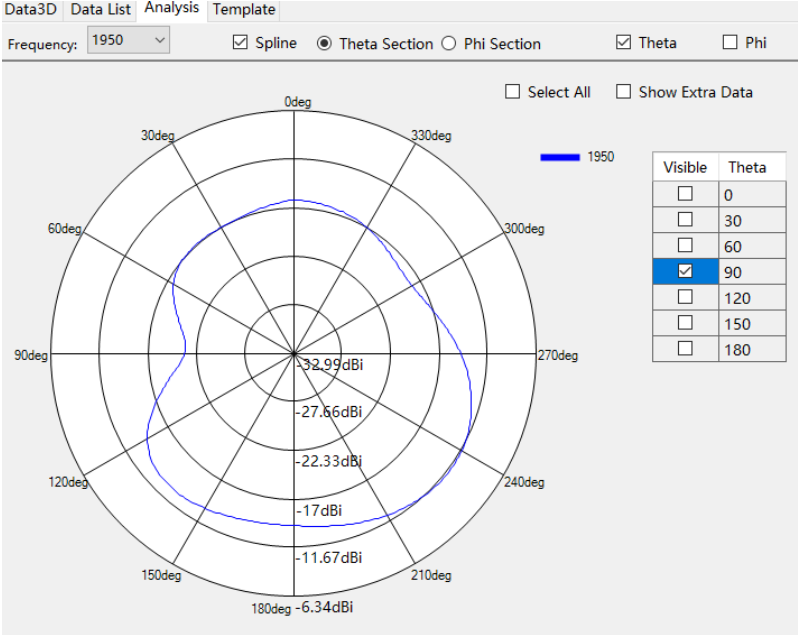
GSM900/W8/B8



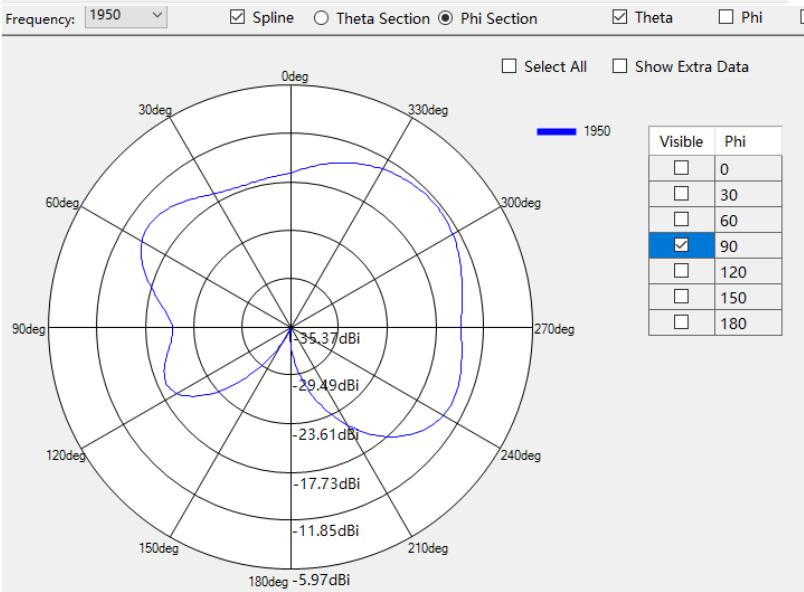
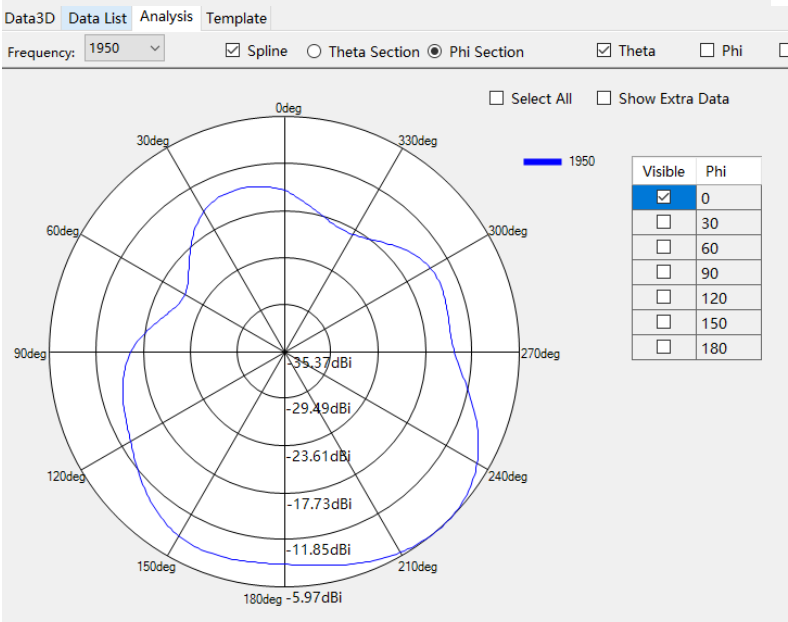
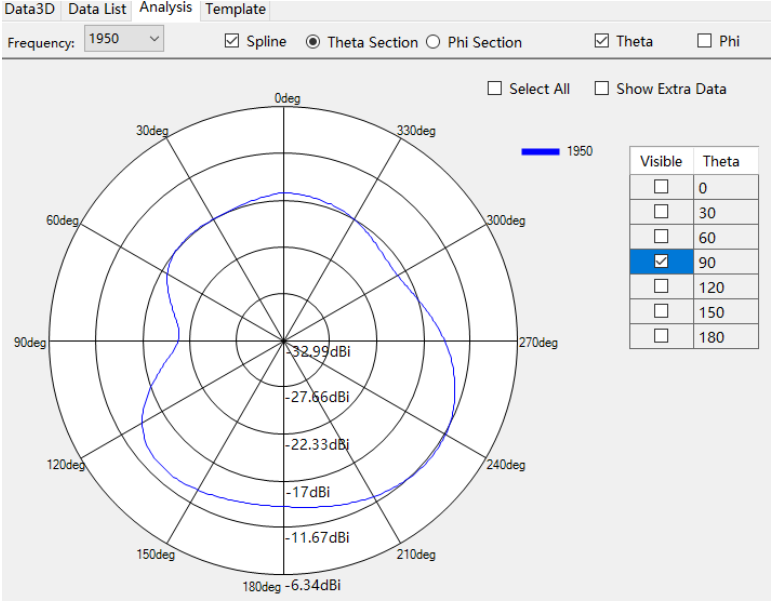
DCS1800/B3/B66



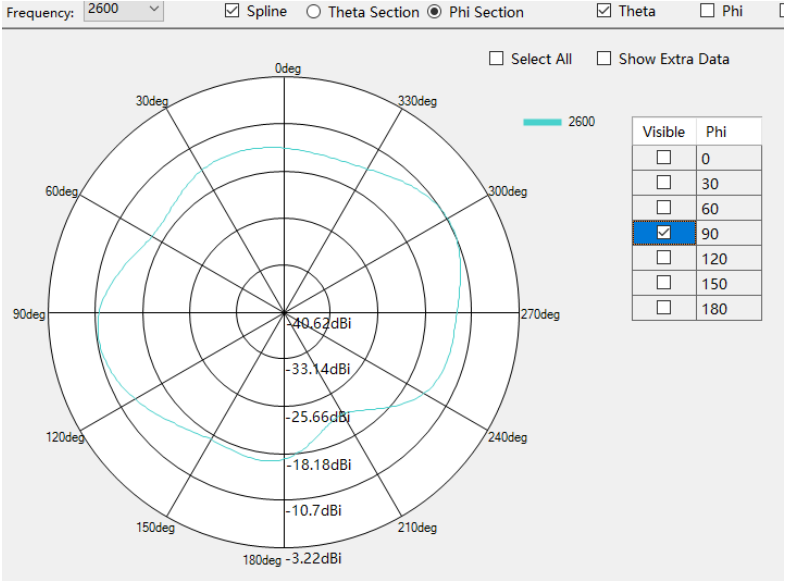
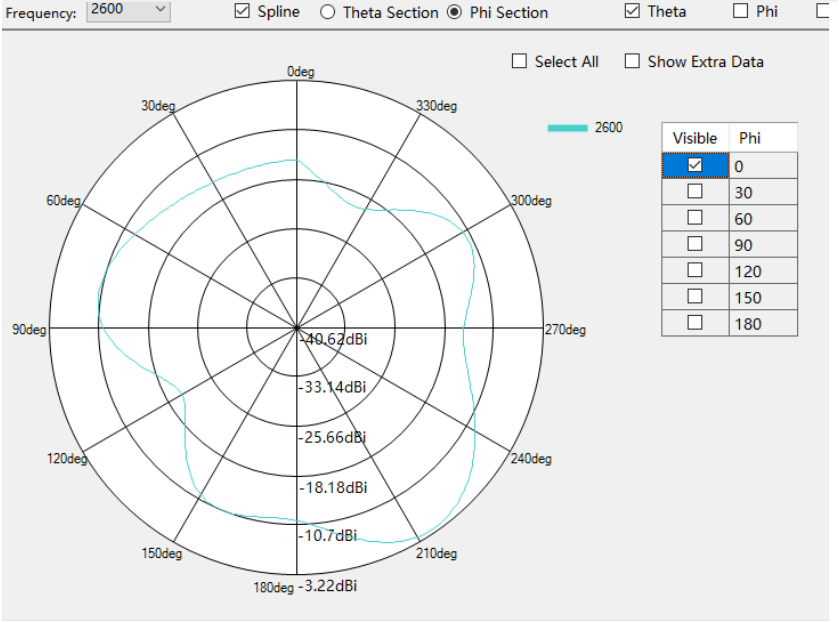
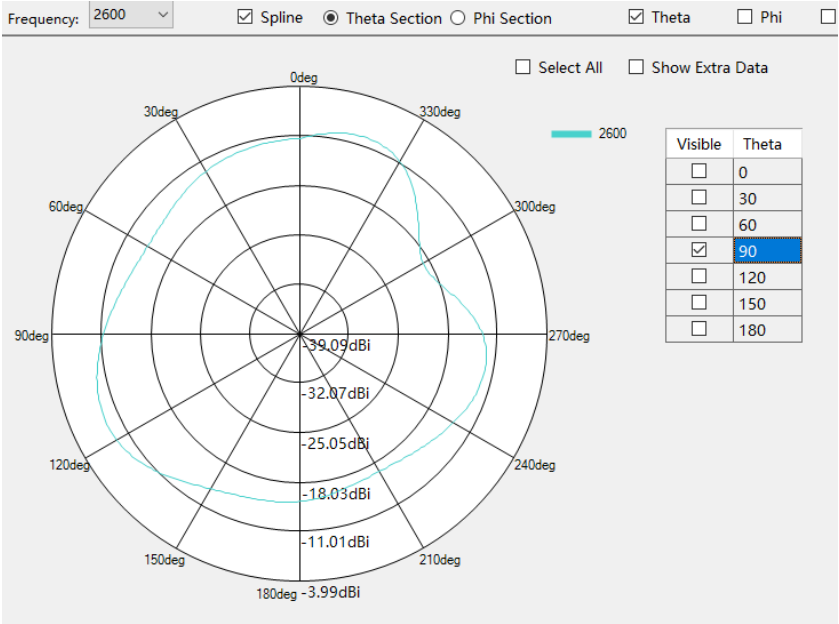
PCS1900/W2/B2



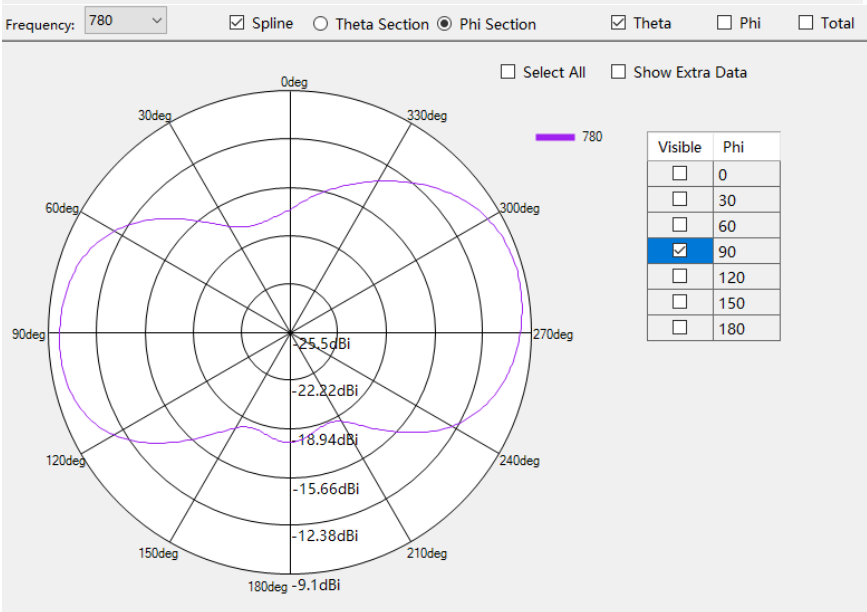
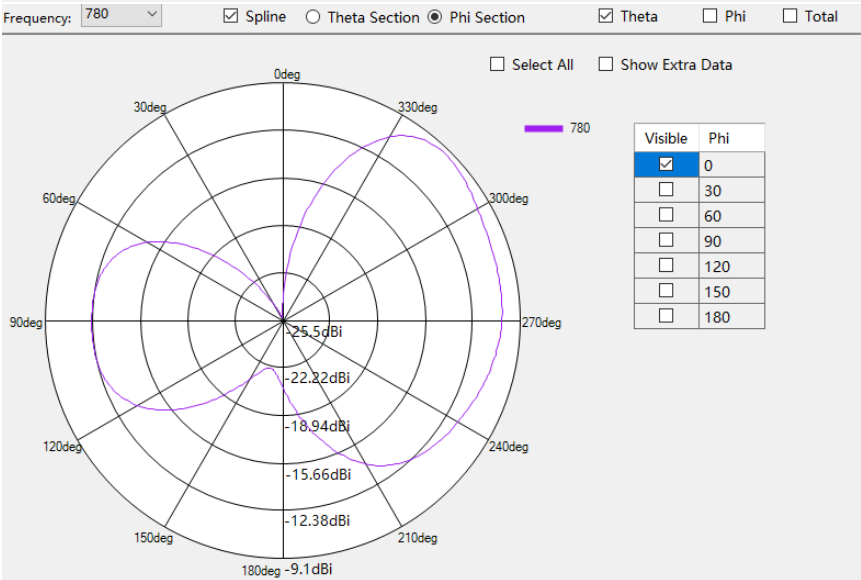
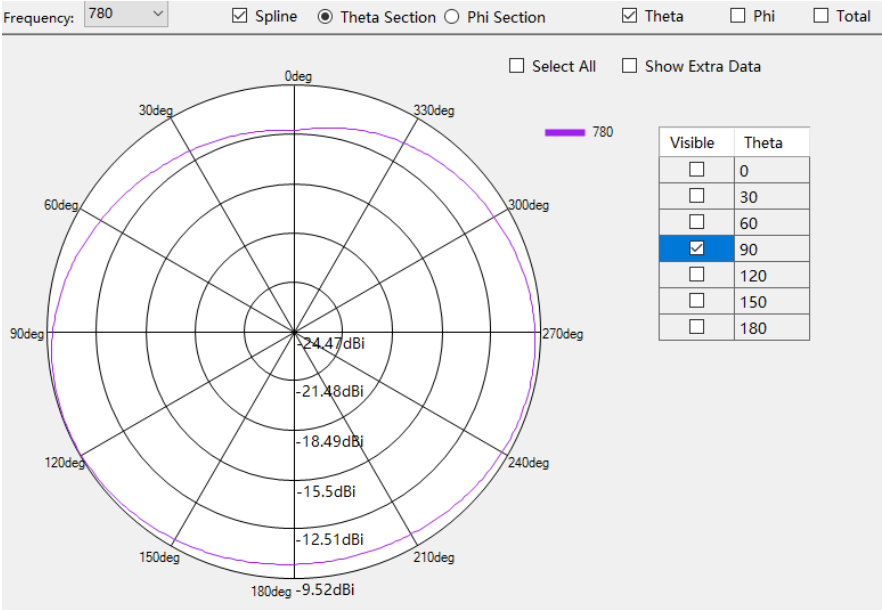
W1//B1/B4/W4



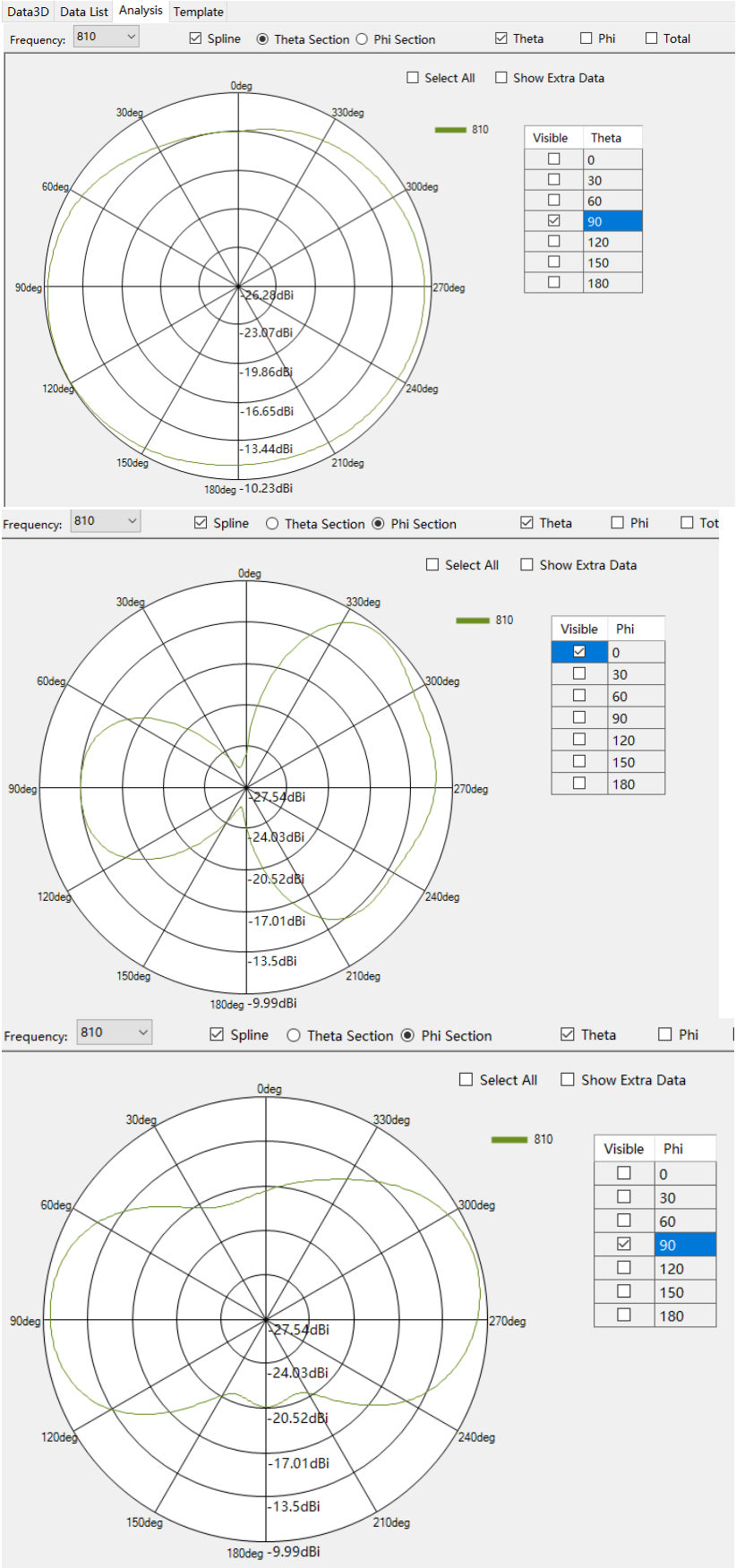
B7/B38/B41



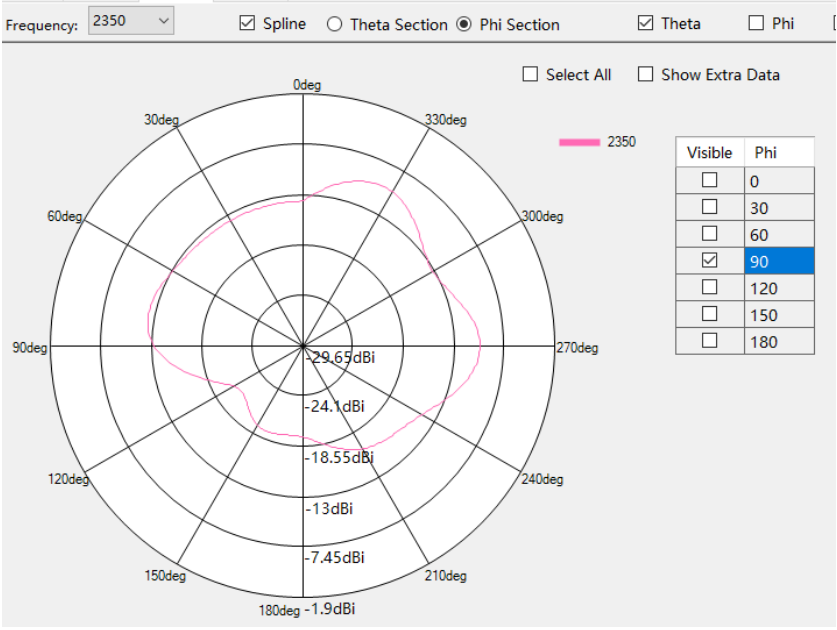
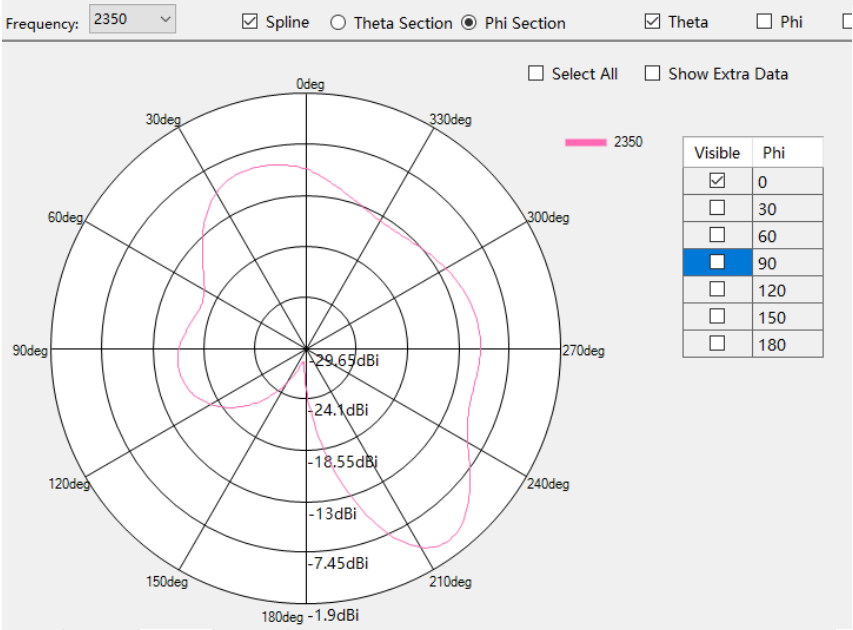
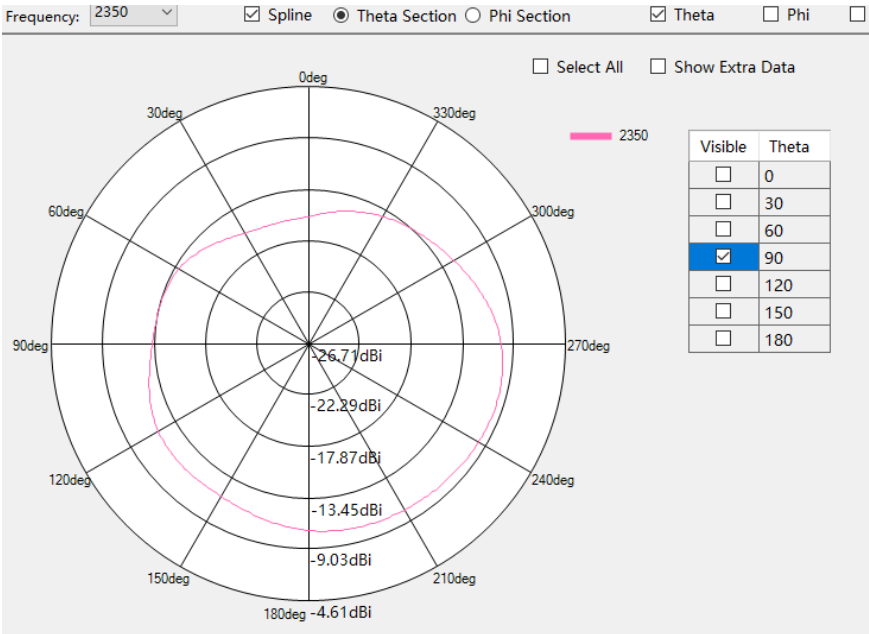
B12/B17/B28A/B28B



B20

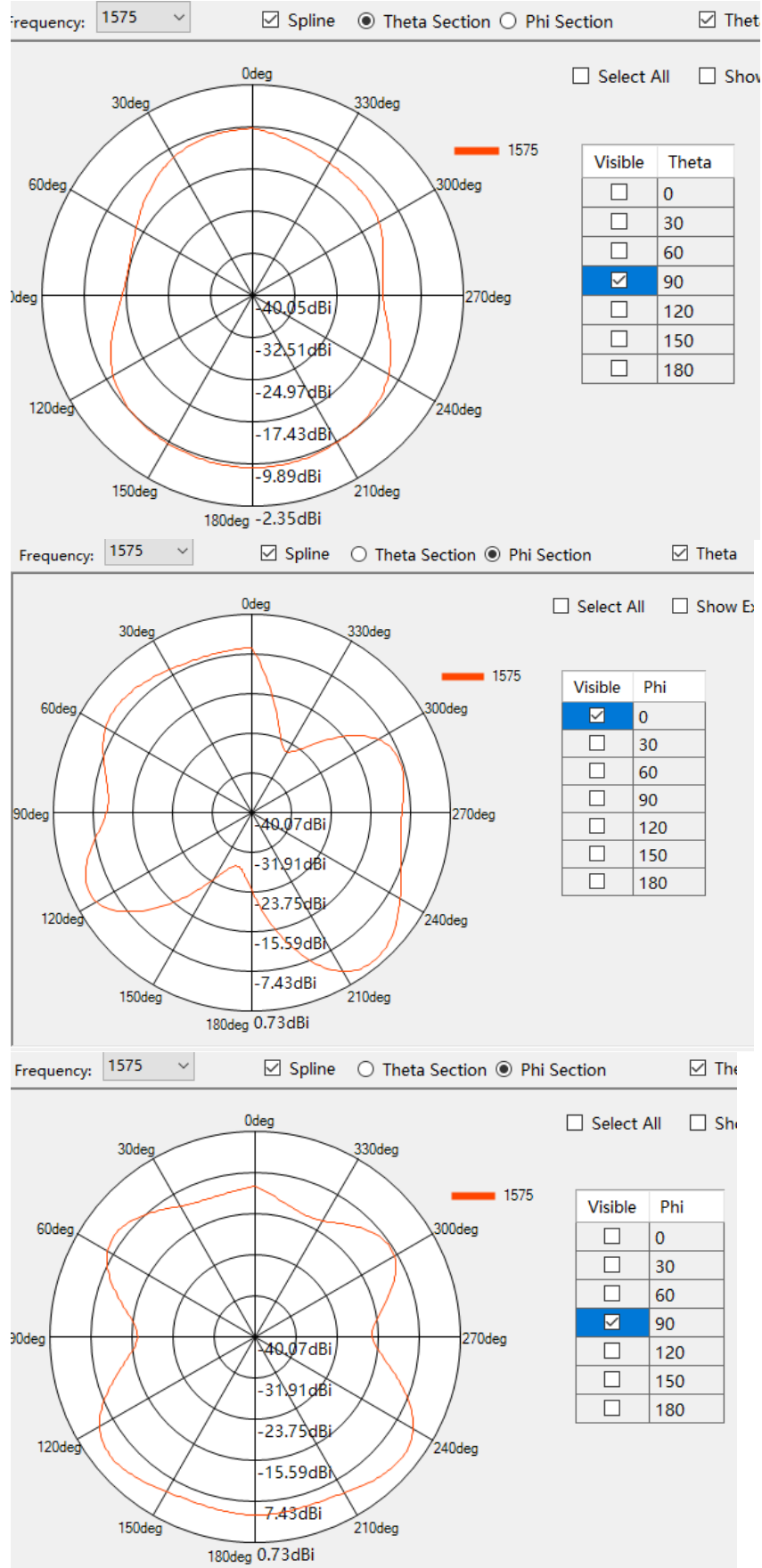


B40

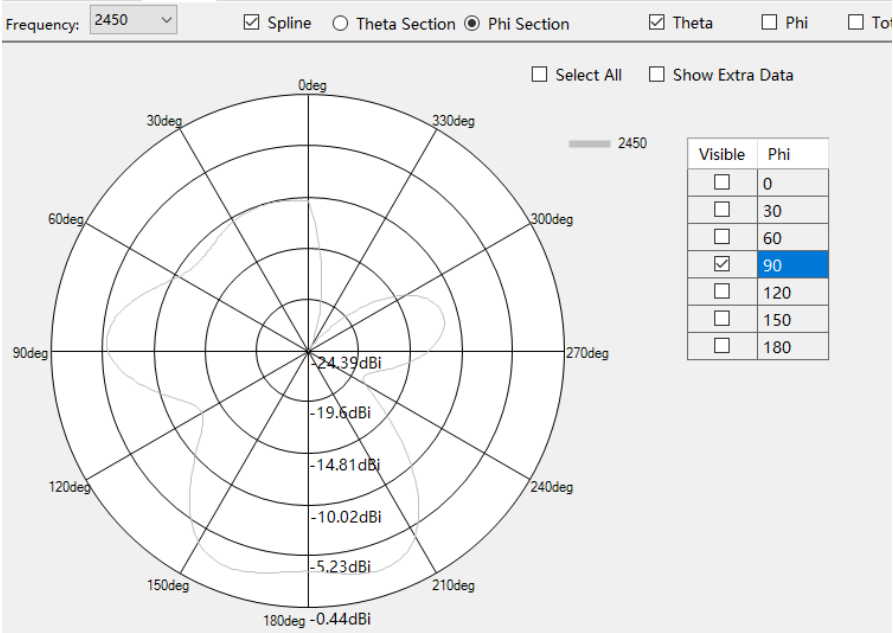
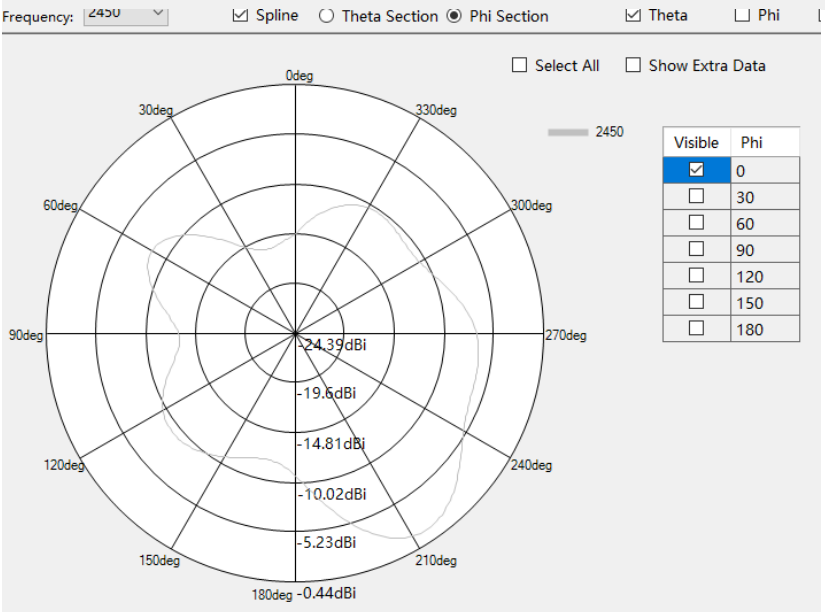
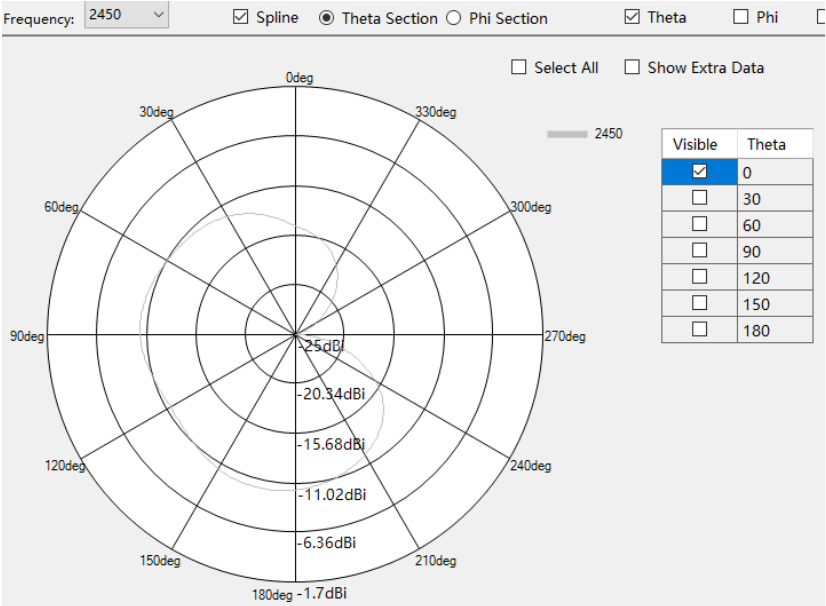


## Three-in-one antenna

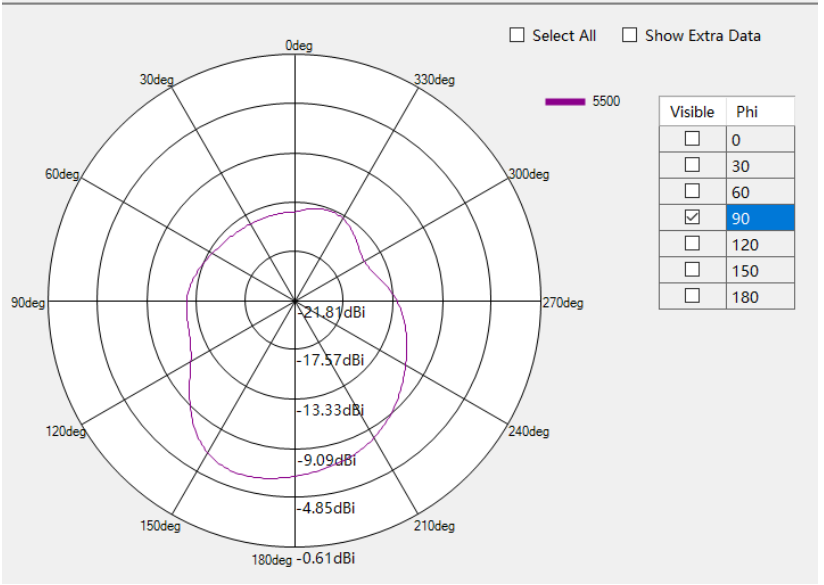
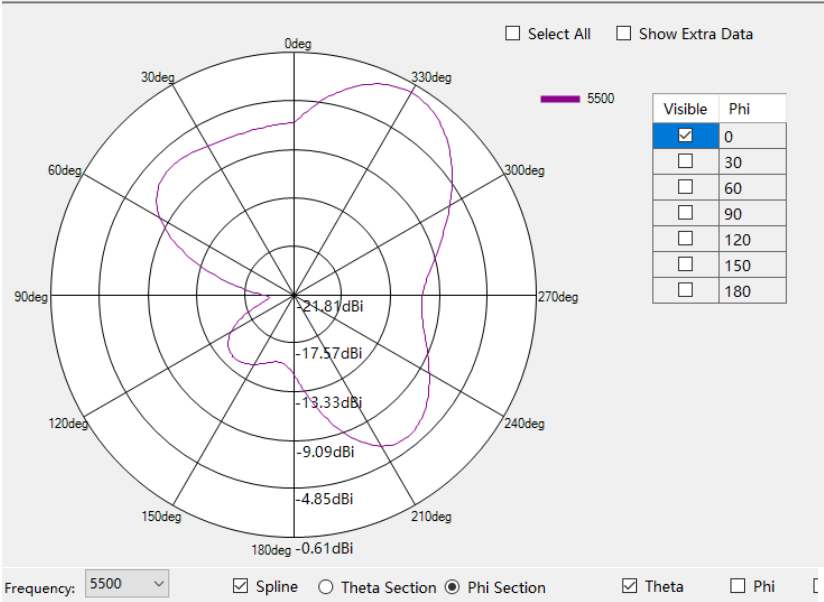
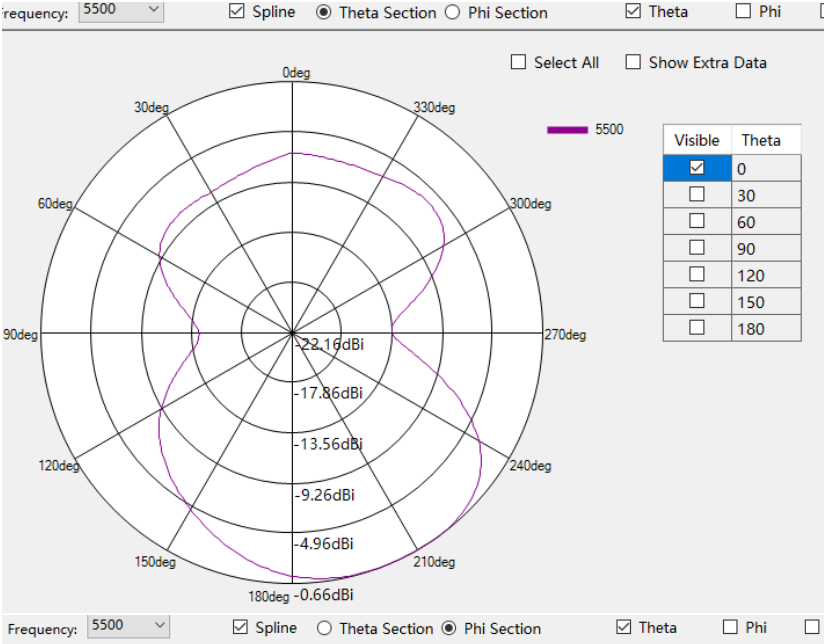
GPS



WIFI 2.4G

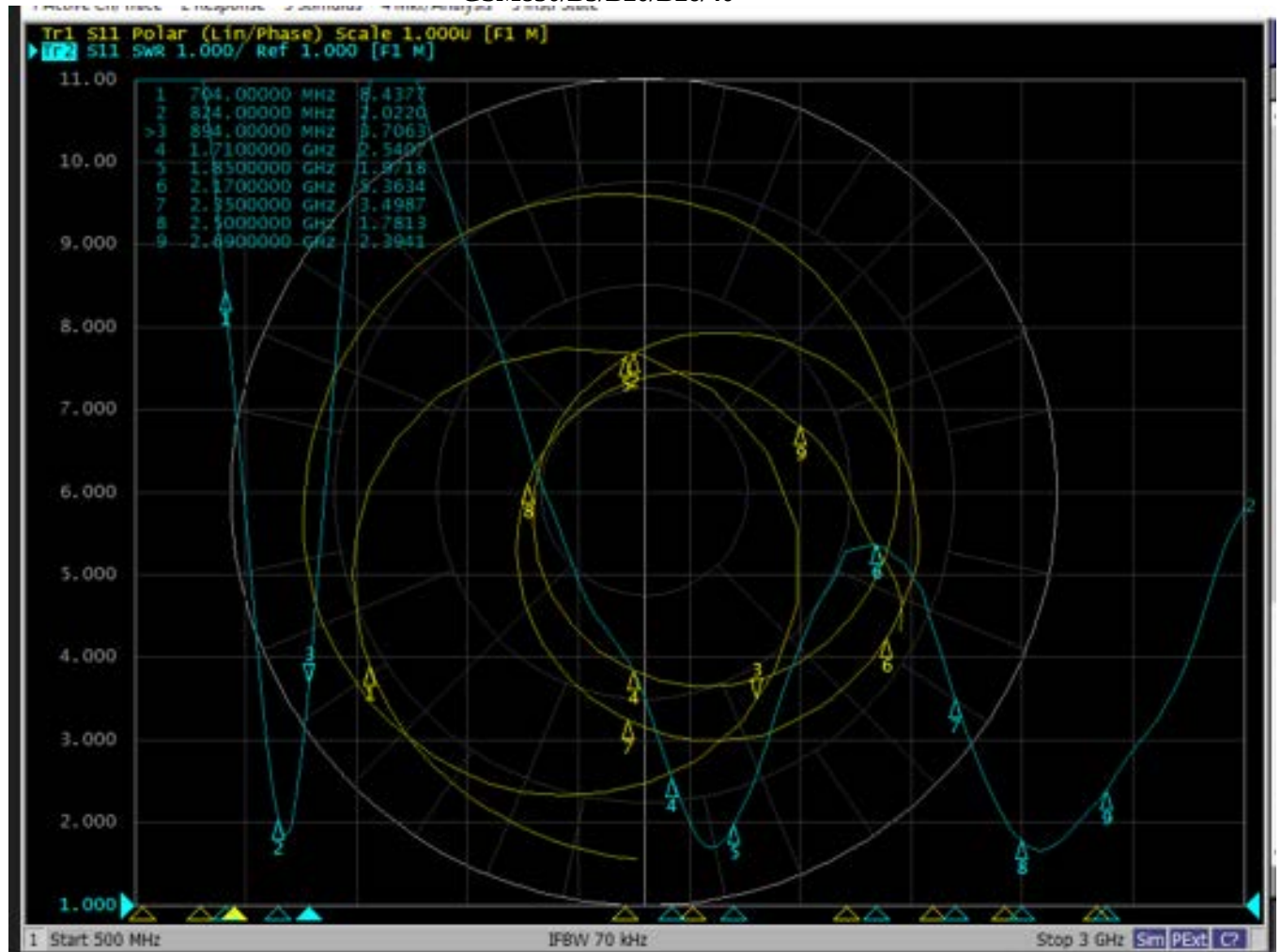


WIFI 5G

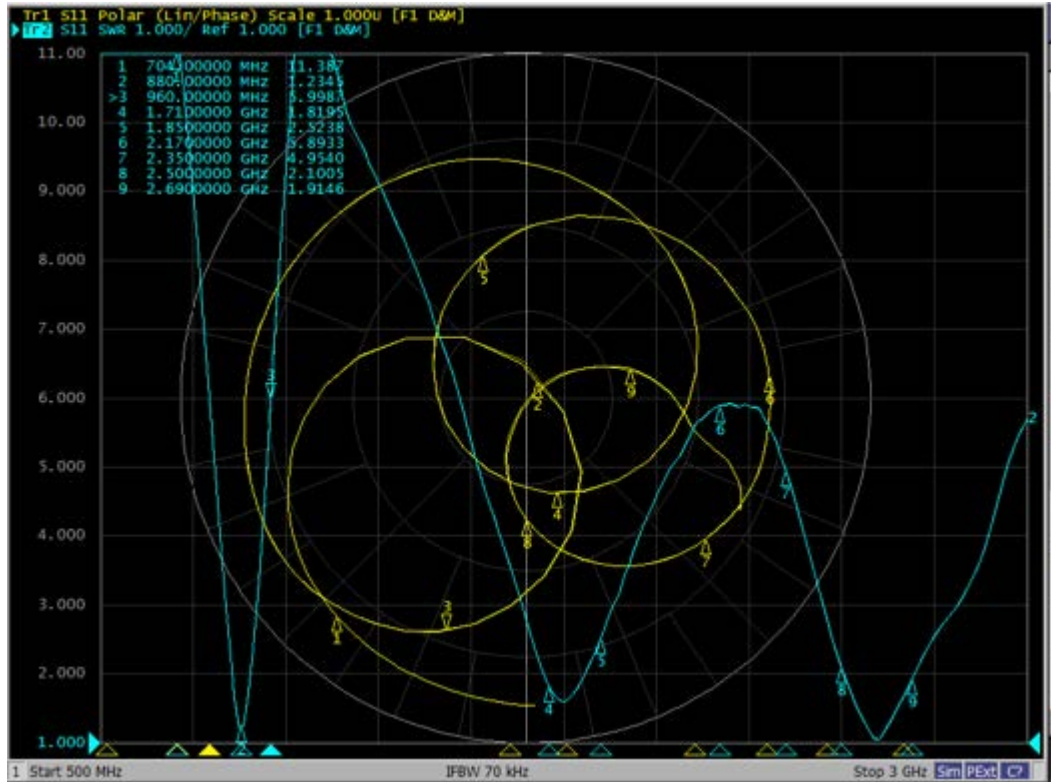


※S11:

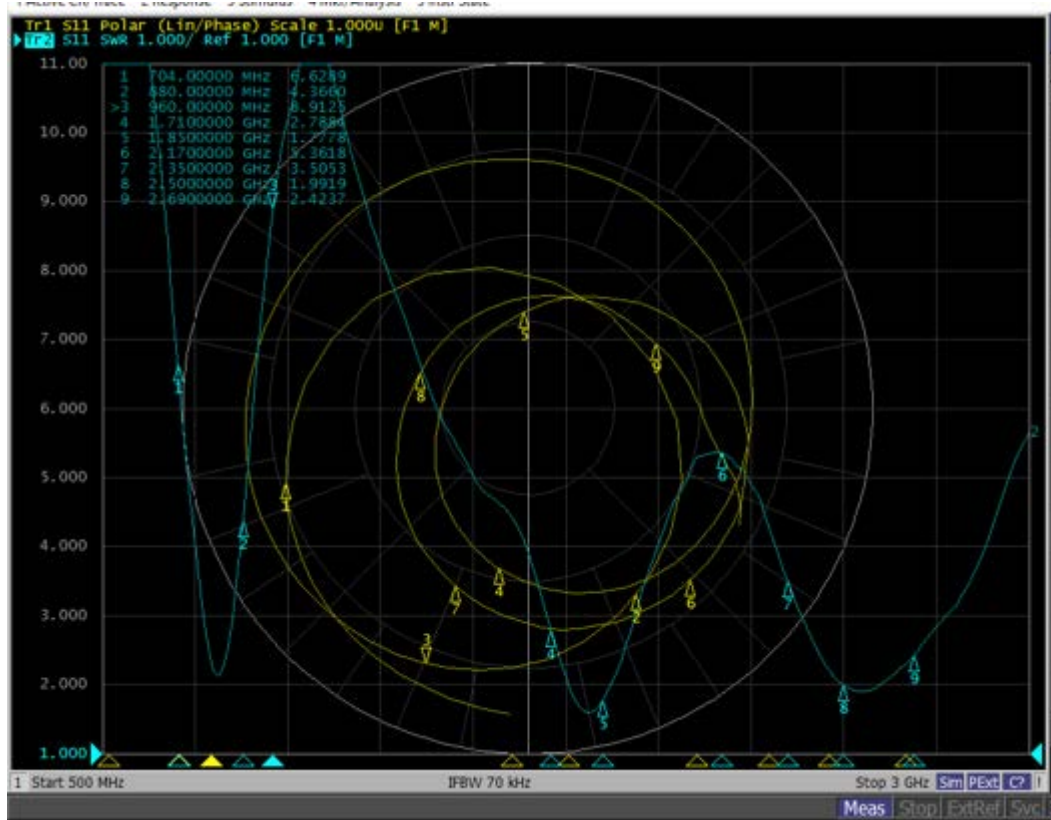
Main Antenna  
GSM850/B5/B20/B26/40



# GSM900/W8/B8/B7/B38/B41



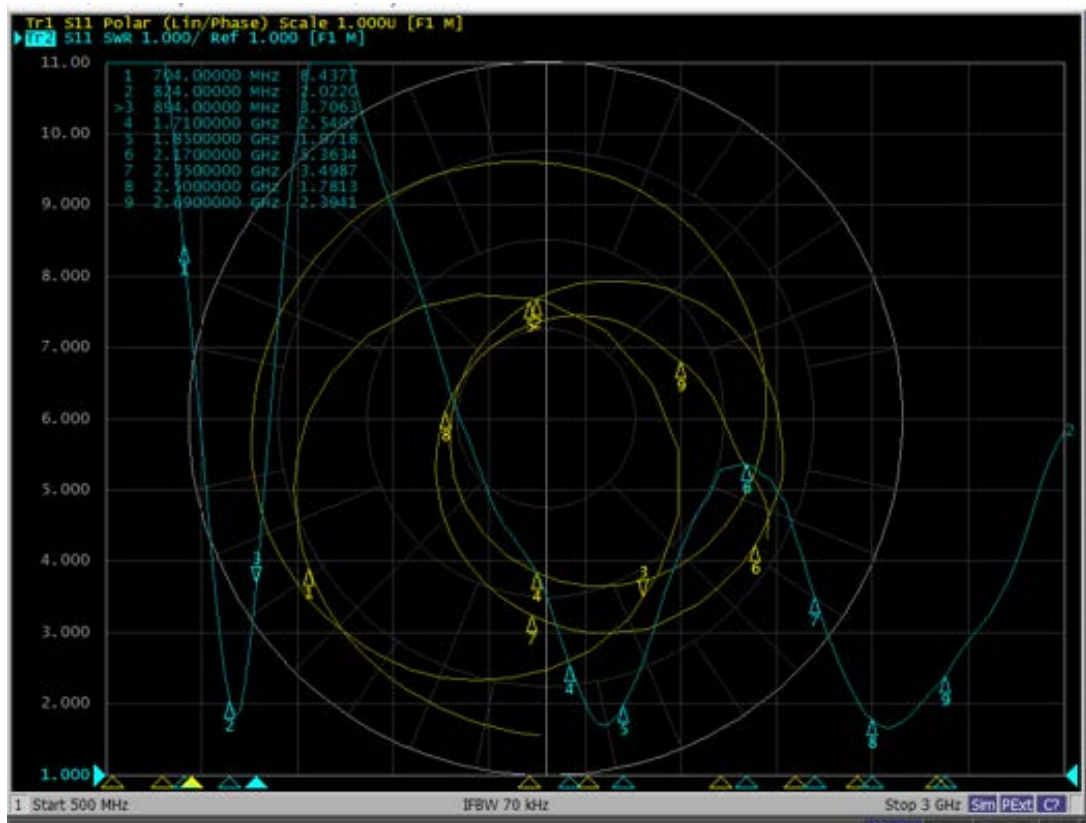
# DCS1800/W4/B3/B4/B66



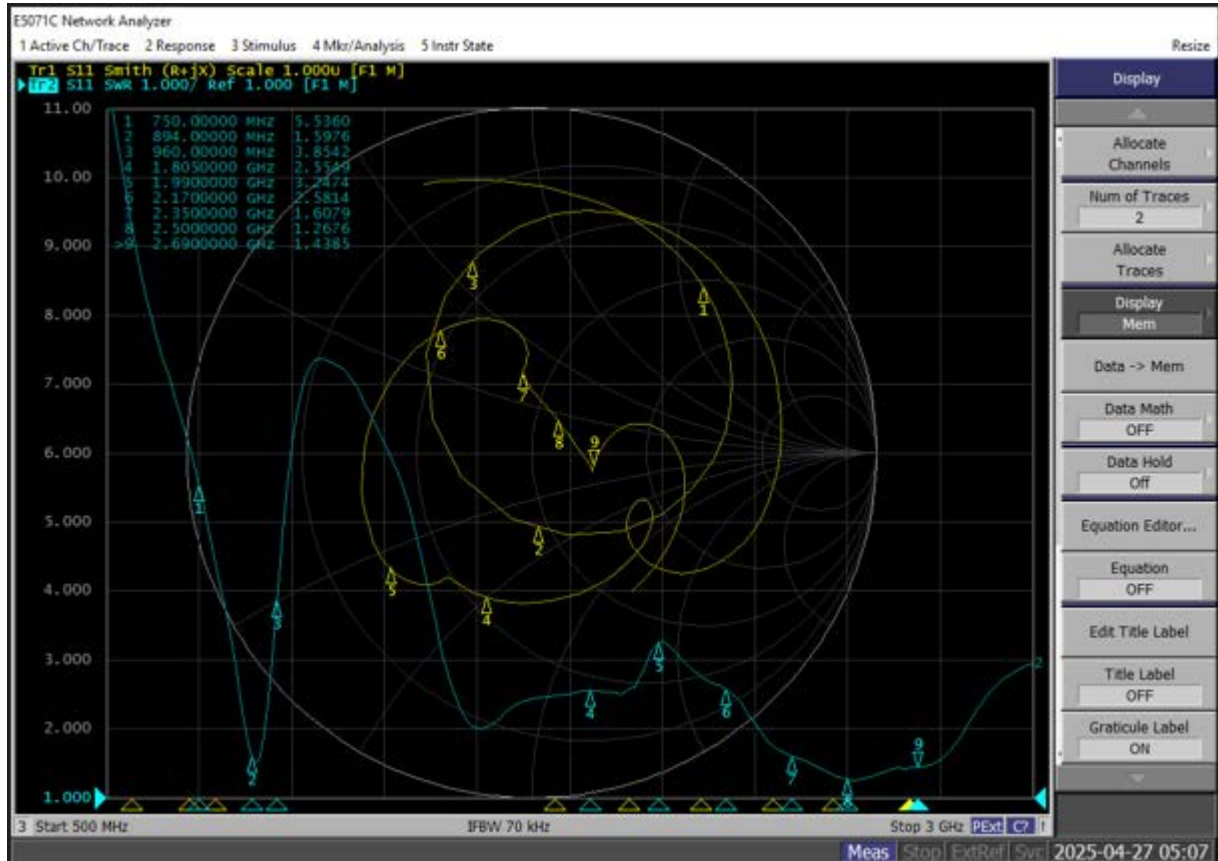
# PCS1900/W1/W2/B1/B2/B12/B17/B28



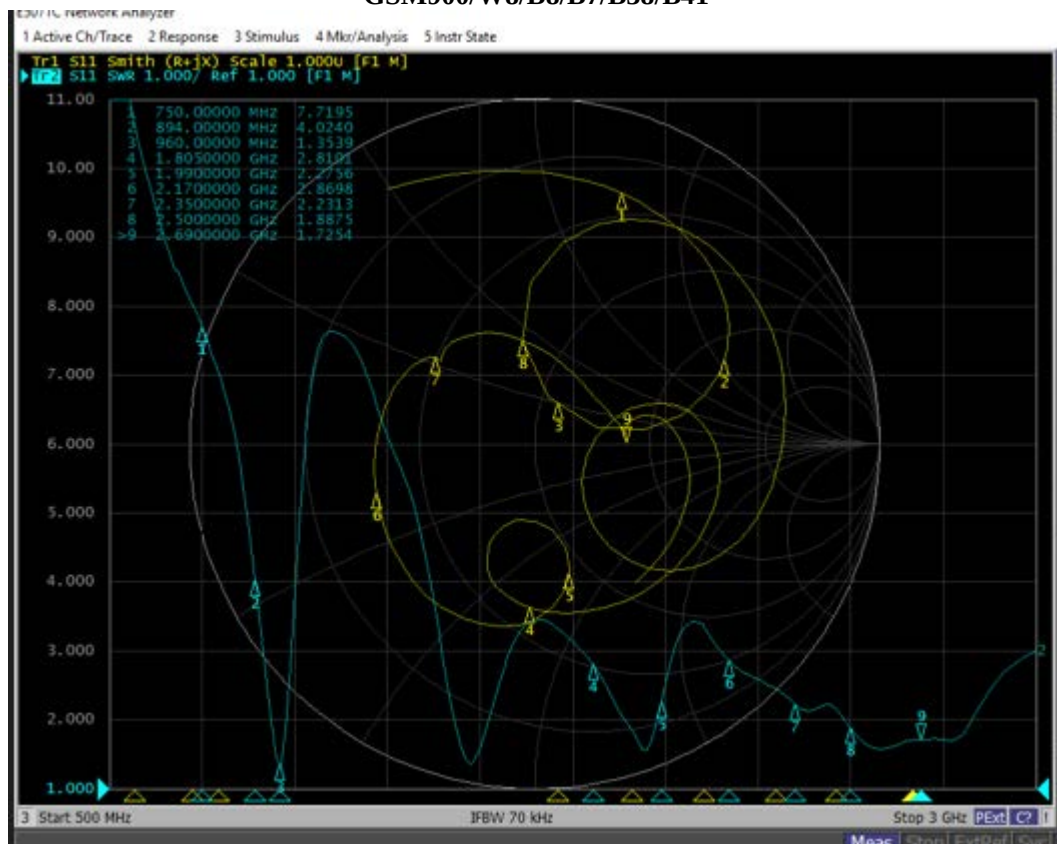
## B40



## DIY Antenna GSM850/W5/B5/B26



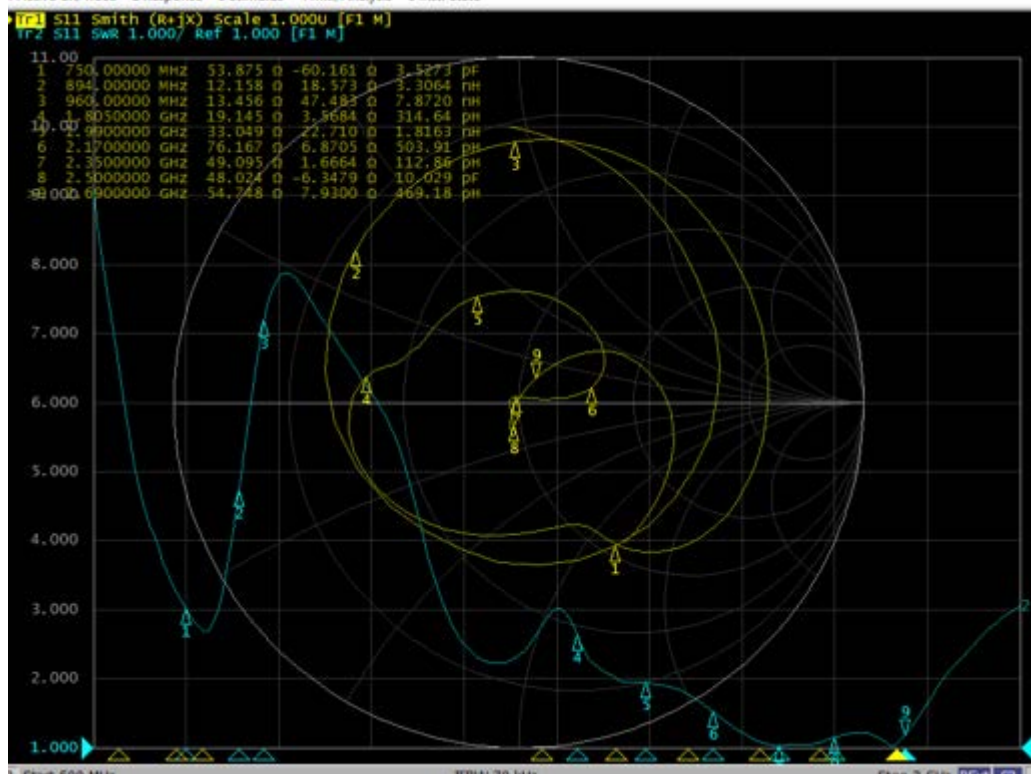
## GSM900/W8/B8/B7/B38/B41



# W1/B1/B3/B20/B40



# DCS1800/PCS1900/W2/W4/B2/B4/B12/B17/B28/B66



## Three-in-one antenna

