

A/B/C/D/O/P/Q/R:

2G:

GSM 850/DCS1800

3G:

WCDMA B1/B8

4G:

LTE FDD B1/B3/B7/B8/B20/B28A/B38/B40/B41(120M)

E/F/G/H/X:

2G:

GSM 850/DCS1800/EGSM 900/PCS1900

3G:

WCDMA B1/B5/B8

4G:

LTE FDD B1/B3/B5/B8/B38/B40/B41(120M)

I/J:

2G:

GSM 850/DCS1800/EGSM 900/PCS1900

3G:

WCDMA B1/B5/B8

4G:

LTE FDD B1/B3/B5/B8/B28A/B28B/B38/B40/ B41(full)

K/L/M/N/S/T/U/V/W:

2G:

GSM 850/DCS1800/EGSM 900/PCS1900

3G:

WCDMA B1/B2/B4/B5/B8

4G:

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

Y/Z/AA/AB:

2G:

GSM 850/DCS1800/EGSM 900/PCS1900

3G:

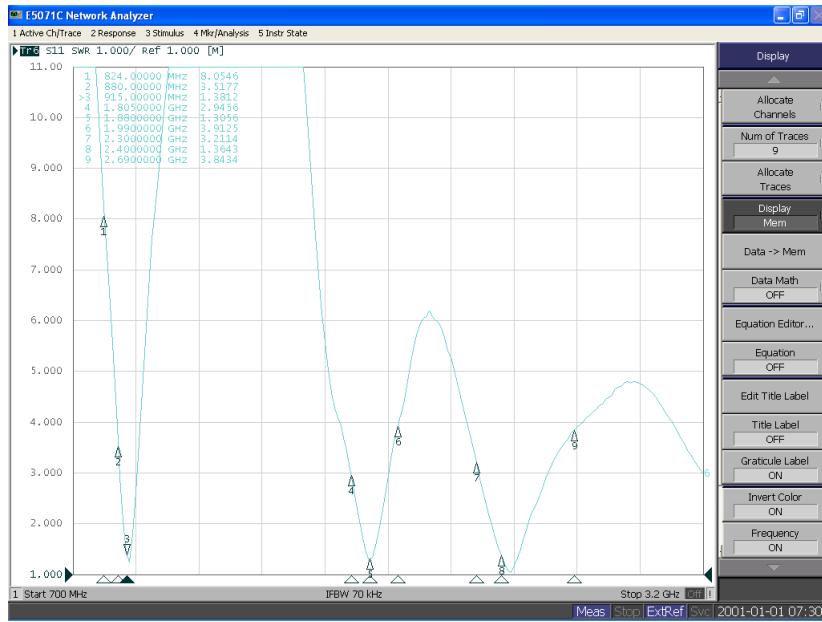
WCDMA B1/B2/B4/B5/B8

4G:

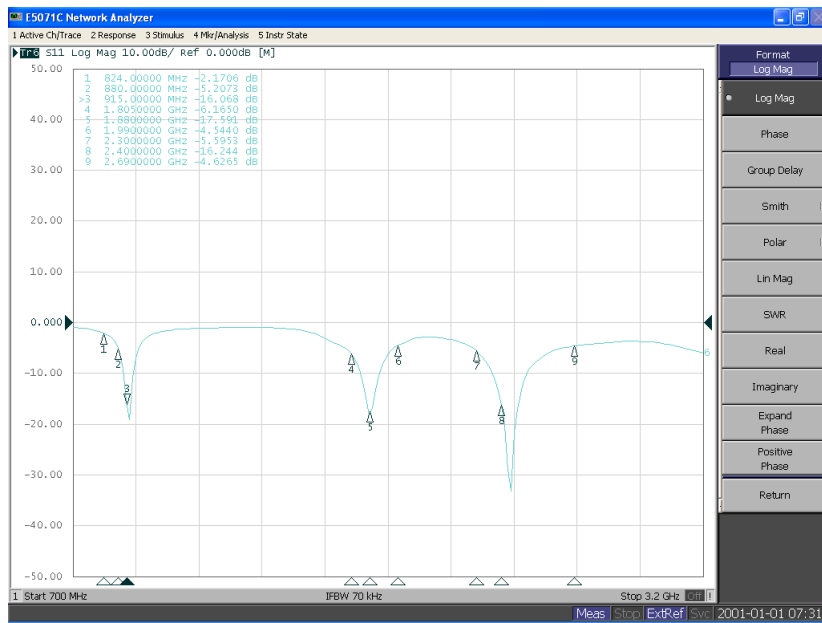
LTE FDD B1/B2/B3/B4/B5/B7/B8/B12/B17/B13/B26/B28A/B28B/B38/B40/B41(120M)/B66;

Top Antenna

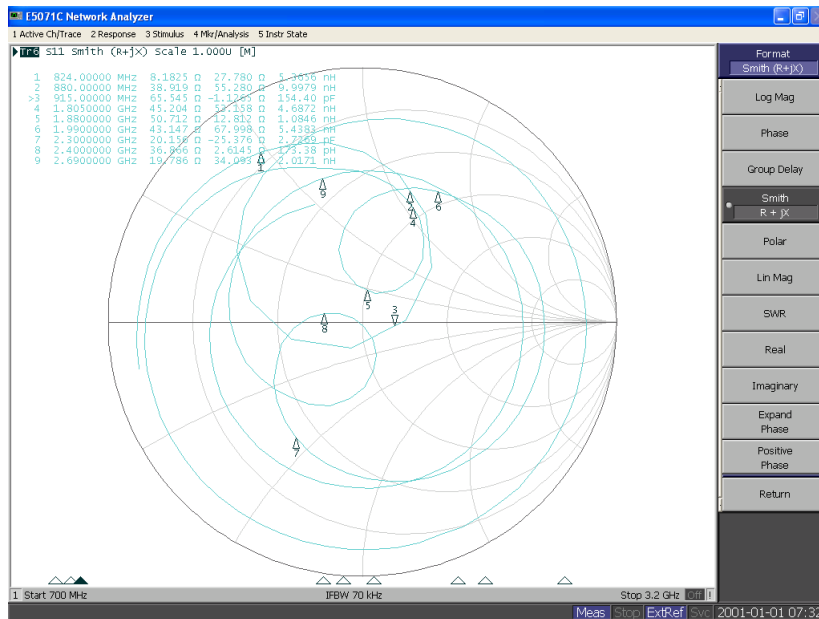
VSWR:



RL:



SMITH:

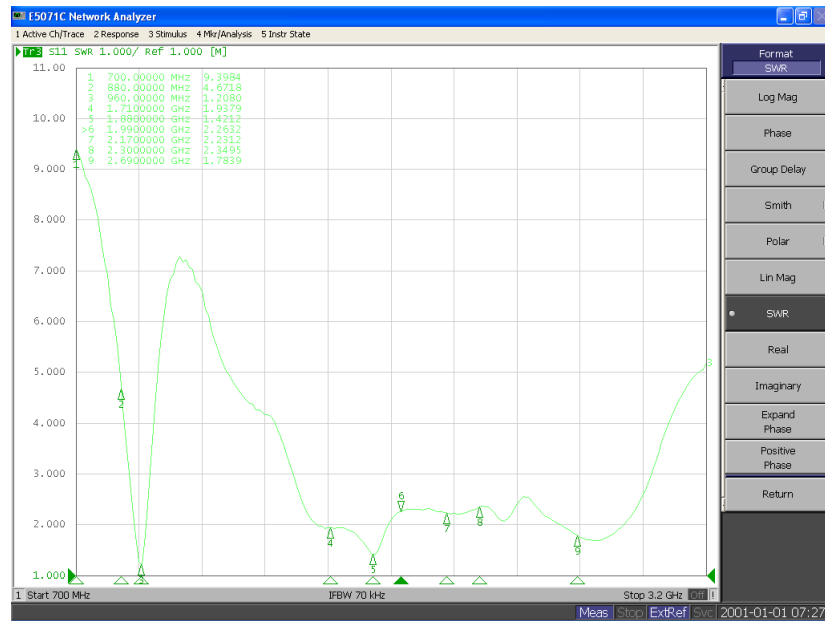


Top Antenna gain:

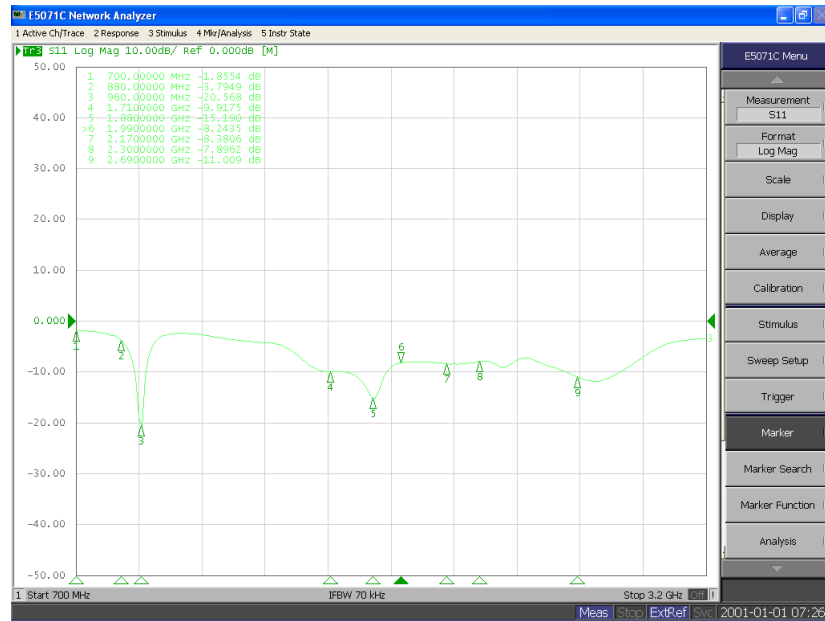
- GSM 850 average: -4.5dBi;
- EGSM 900 average:-4.5dBi;
- DCS1800 average: -3.5dBi;
- PCS1900 average: -3.5dBi;
- WCDMA B1 average: -.4dBi;
- WCDMA B2 average: -3.5dBi;
- WCDMA B4 average: -3.5dBi;
- WCDMA B5 average: -4.5dBi;
- WCDMA B8 average: -4.5dBi;
- LTE FDD B1 average: -4dBi;
- LTE FDD B2 average: -3.5dBi;
- LTE FDD B3 average: -3.5dBi;
- LTE FDD B4 average: -3.5dBi;
- LTE FDD B5 average: -4.5dBi;
- LTE FDD B7 average:-0.5dBi;
- LTE FDD B8 average: -4.5dBi;
- LTE FDD B12 average: -4dBi;
- LTE FDD B13 average: -4dBi
- LTE FDD B17 average: -4dBi;
- LTE FDD B20 average:-4.5dBi;
- LTE FDD B26 average:-4.5dBi;
- LTE FDD B28 average: -4dBi;
- LTE FDD B66 average: -4.6dBi;
- LTE FDD B38 average: -0.5dBi;
- LTE TDD B40 average: -1dBi;
- LTE TDD B41 average: -0.5dBi;

Bottom Antenna:

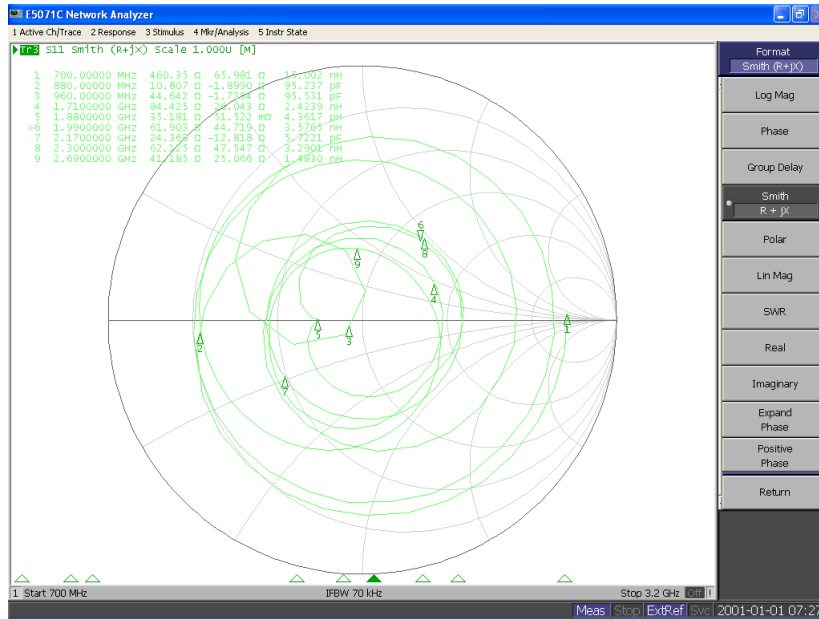
VSWR:



RL:



SMITH:

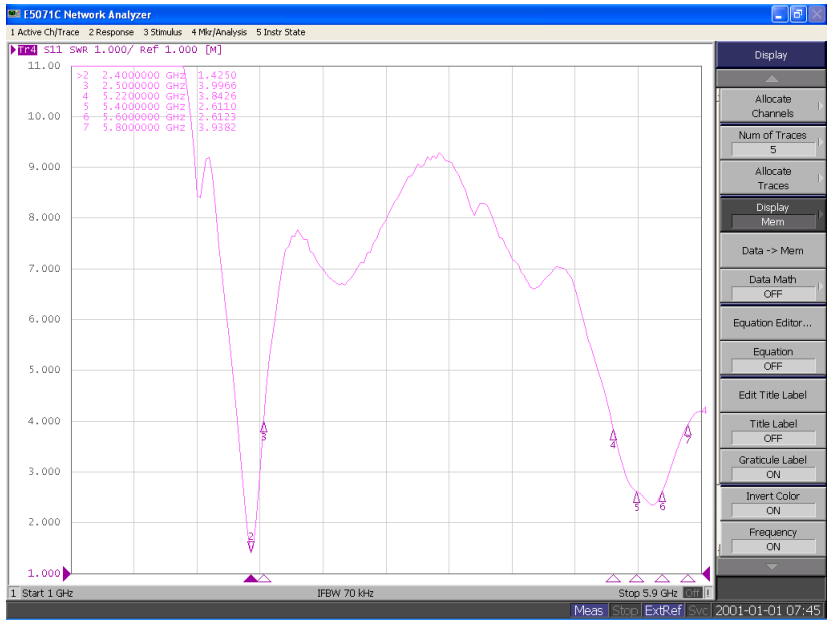


Bottom Antenna gain:

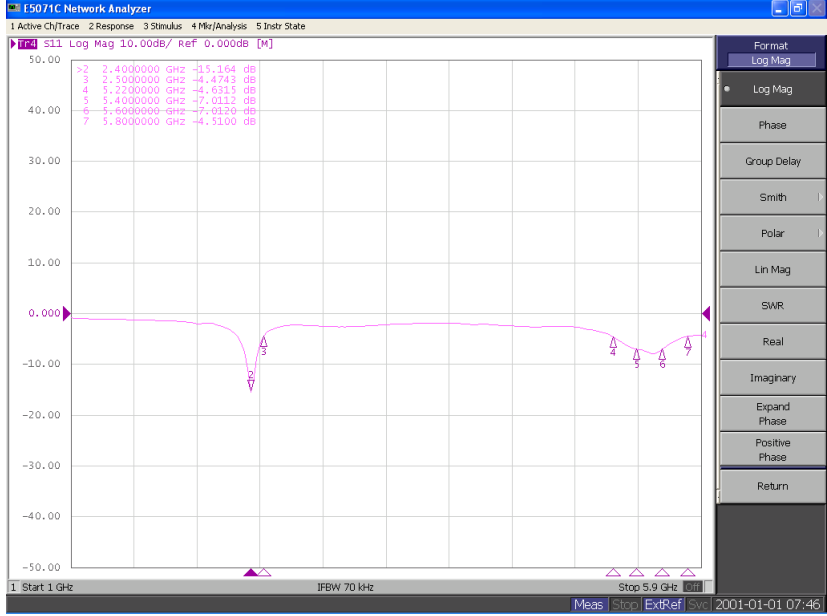
- GSM 850 average: -6dBi;
- EGSM 900 average: -6dBi;
- DCS1800 average: -4.6dBi;
- PCS1900 average: -4.6dBi;
- WCDMA B1 average: -4dBi;
- WCDMA B2 average: -4.6dBi;
- WCDMA B4 average: -4.6dBi;
- WCDMA B5 average: -6dBi;
- WCDMA B8 average: -6dBi;
- LTE FDD B1 average: -4dBi;
- LTE FDD B2 average: -4.6dBi;
- LTE FDD B3 average: -4.6dBi;
- LTE FDD B4 average: -4.6dBi;
- LTE FDD B5 average: -6dBi;
- LTE FDD B7 average: -1dBi;
- LTE FDD B8 average: -6dBi;
- LTE FDD B12 average: -7dBi;
- LTE FDD B13 average: -7dBi;
- LTE FDD B17 average: -7dBi;
- LTE FDD B20 average: -6dBi;
- LTE FDD B26 average: -6dBi;
- LTE FDD B28 average: -7dBi;
- LTE FDD B66 average: -4.6dBi;
- LTE FDD B38 average: -1dBi;
- LTE TDD B40 average: -1dBi;
- LTE TDD B41 average: -1dBi;

TOP BT/2.4GWIFI/5GWIFI antenna:

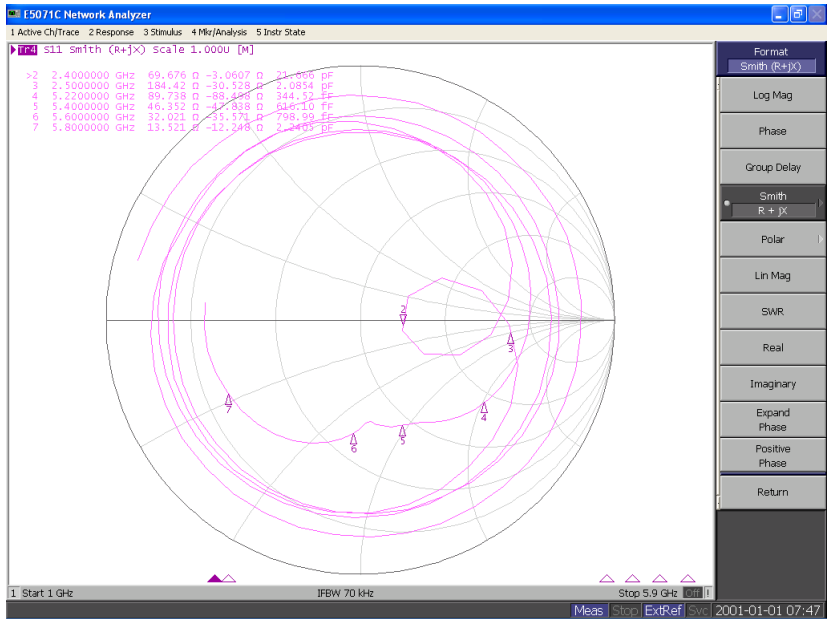
VSWR:



RL:

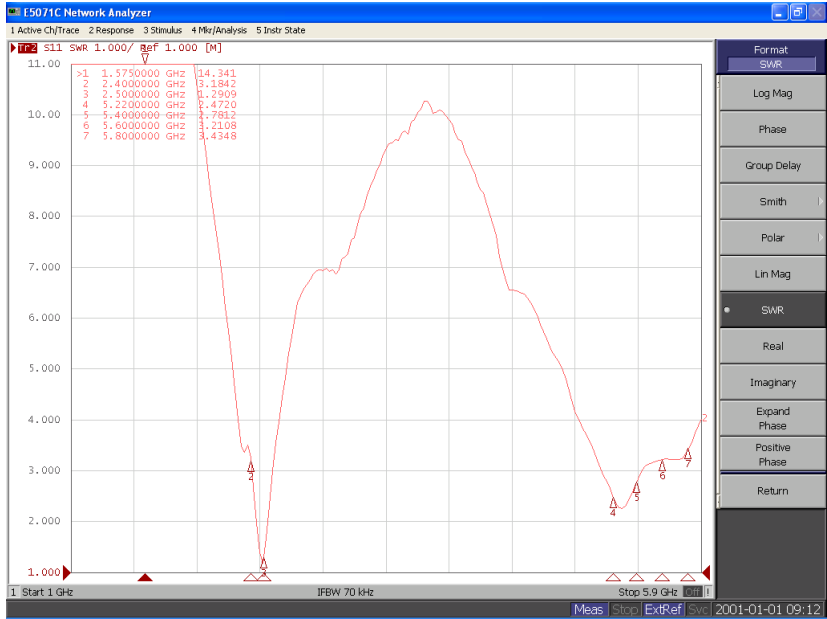


SMITH:



MAX gain about TOP BT/2.4GWIFI/5GWIFI antenna:
 BT/2.4GWIFI: 1dBi;
 5G WIFI:2 dBi;

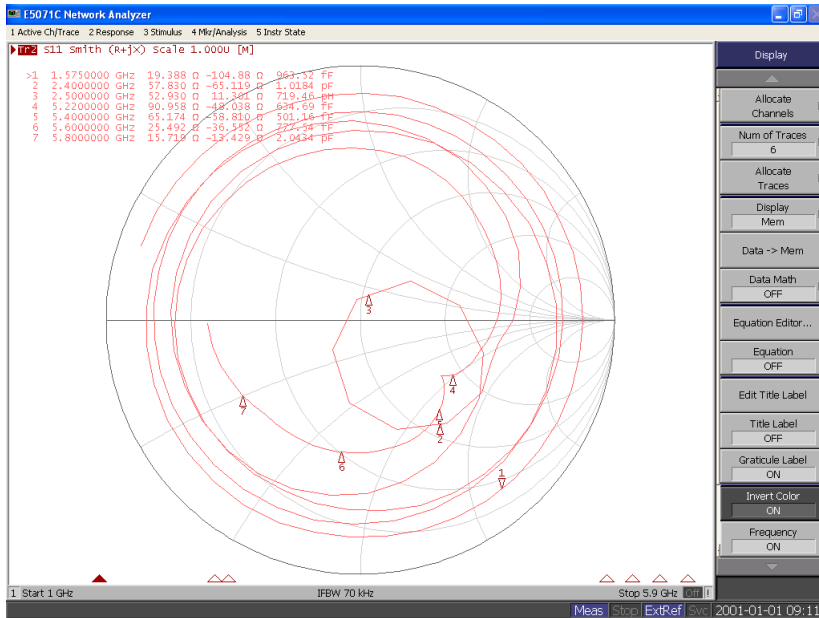
SIDE BT/2.4GWIFI antenna:
 VSWR:



RL:

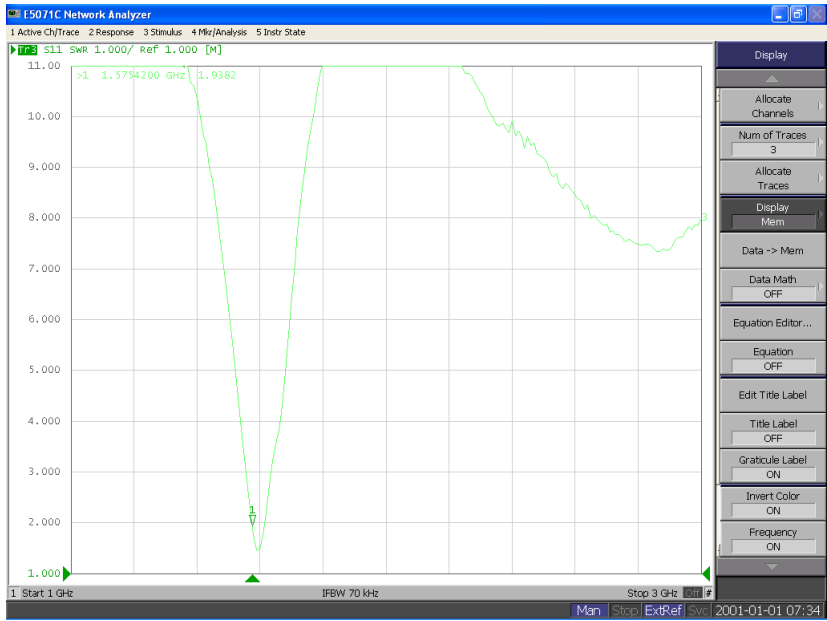


SMITH:

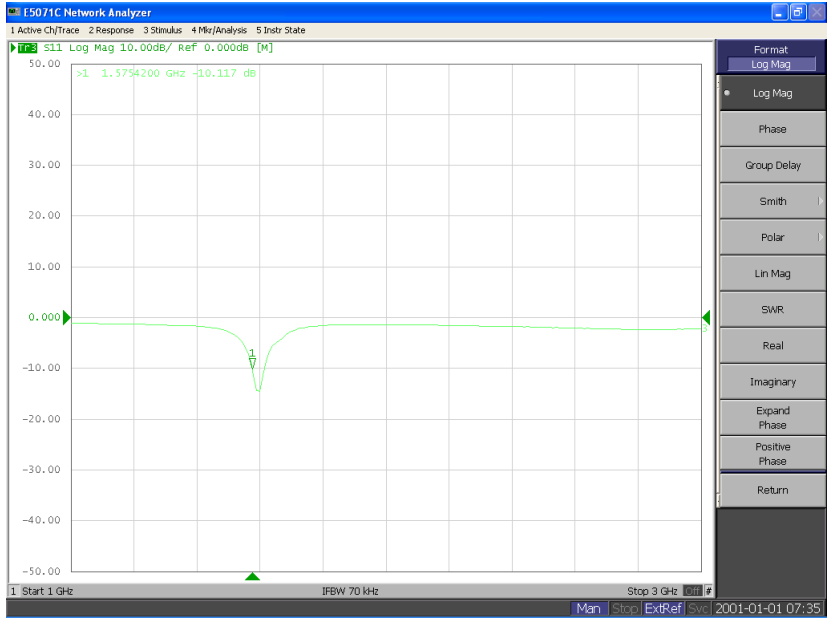


MAX gain about SIDE BT/2.4GWIFI antenna:
 BT/2.4GWIFI: -1dB;

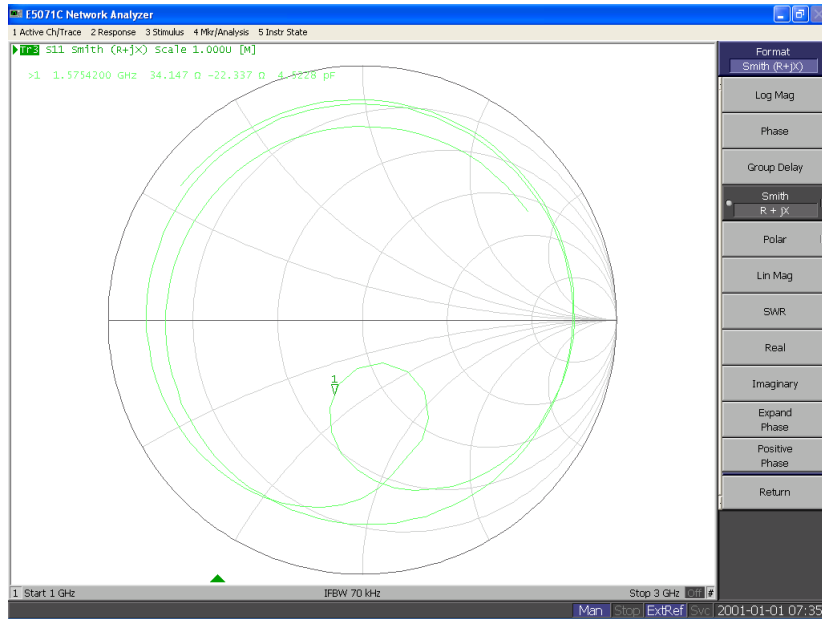
GPS (1.57542Ghz) antenna:
 VSWR:



RL:



SIMITH:



GPS (1.57542Ghz) gain: -1.5dBi;

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