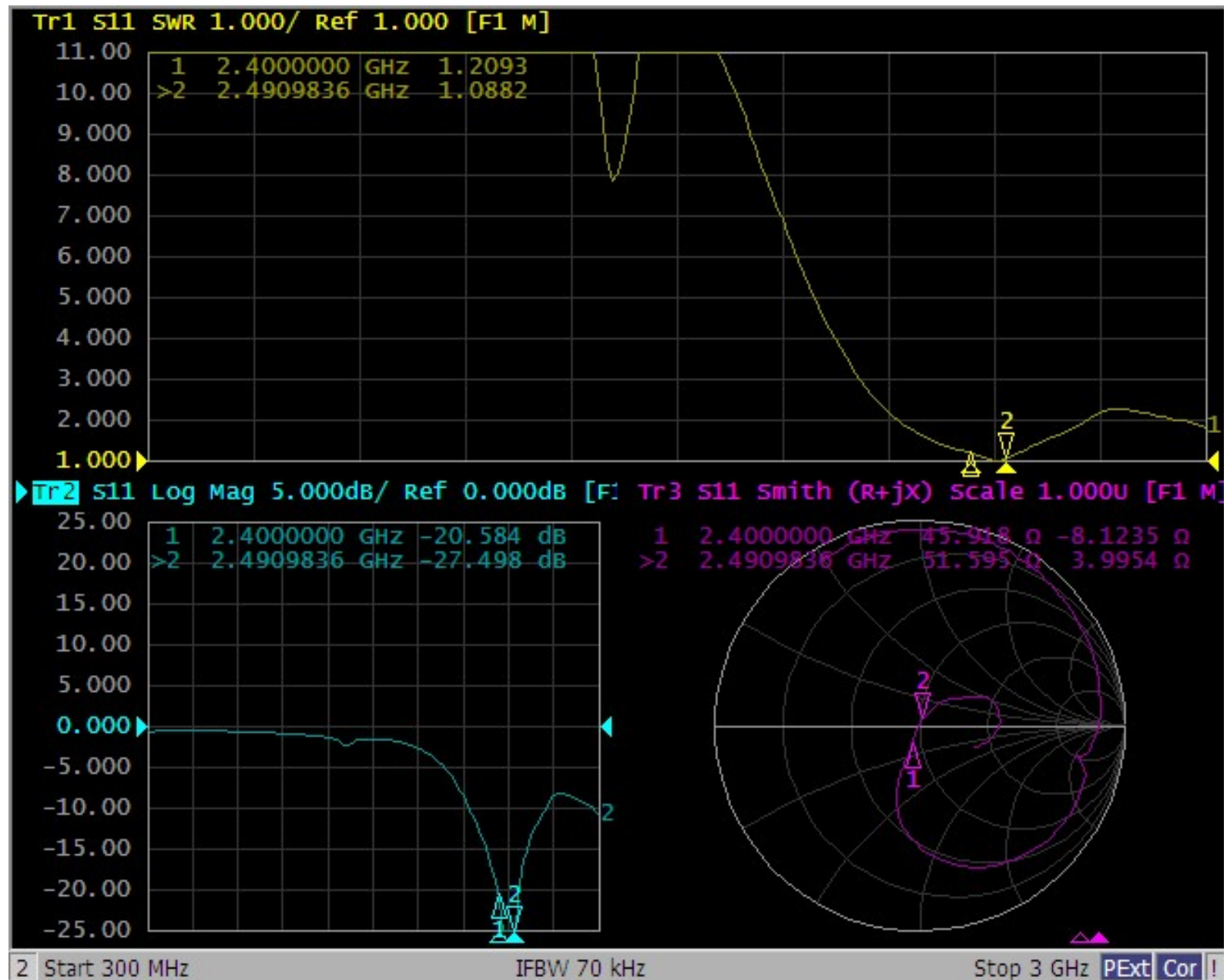


# ANTENNA SPEC

|                                                                                                                                                                                                                                   |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Smart watch                                                                                                                                                                                                                       | RMW2501 |
| BT--FPC<br>GPS-FPC                                                                                                                                                                                                                |         |
| 2025-04-24                                                                                                                                                                                                                        |         |
| Manufacturer: SHENZHEN YUSHENG COMMUNICATION EQUIPMENT CO., LTD<br>Add: 407-411, Floor 4, Building 2, Yuntai Chuanggu Park, southeast of the intersection of<br>Guangming Avenue and Dongchang Road, Guangming District, Shenzhen |         |

# BT SWR



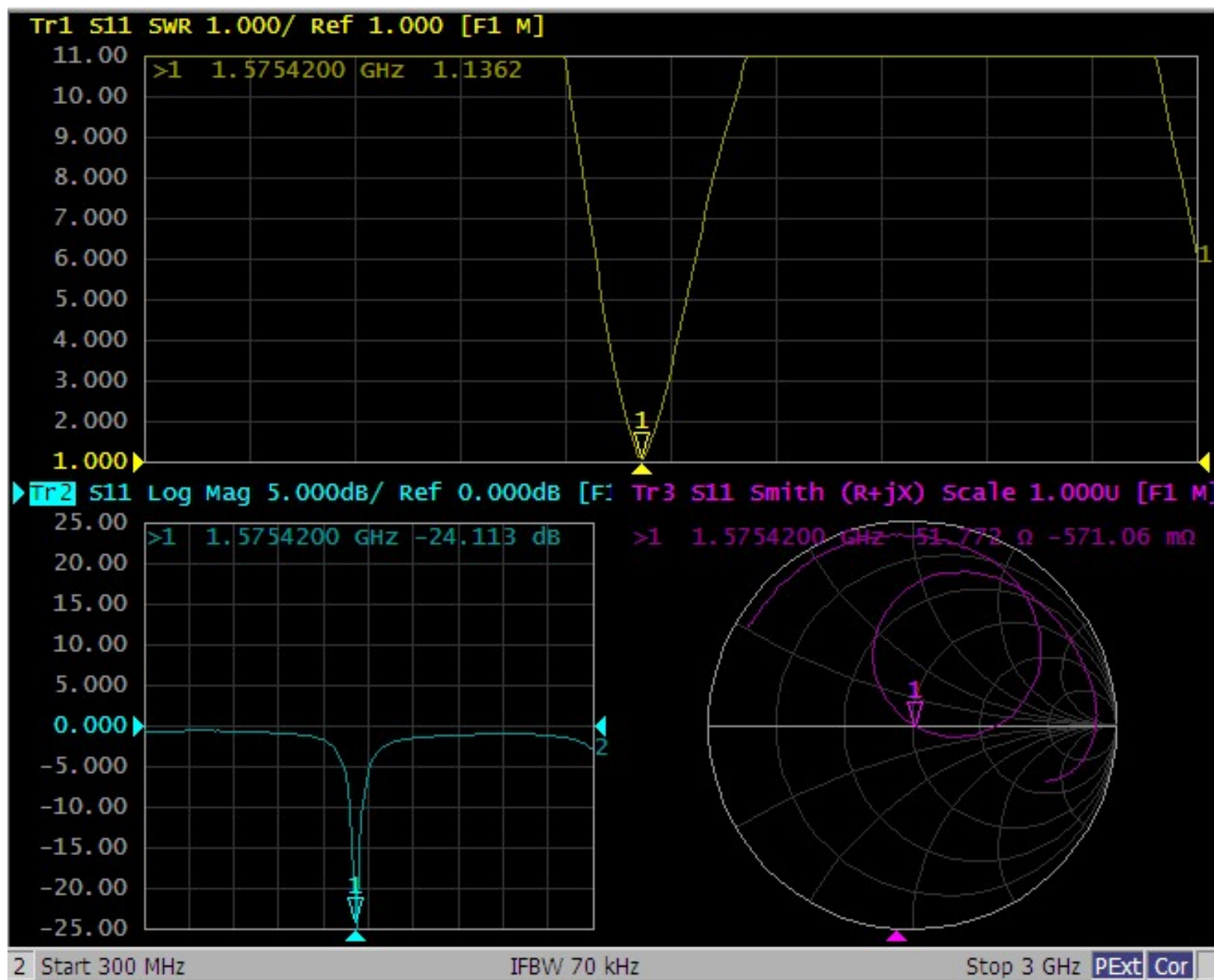
# BT efficiency

BT Gain= -3dBi

| Test           | Free-space |      |      |      |      |      |      |      |      |
|----------------|------------|------|------|------|------|------|------|------|------|
| Test Point ID  | 1          | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| Freq. (MHz)    | 2400       | 2410 | 2420 | 2430 | 2440 | 2450 | 2460 | 2470 | 2480 |
| Efficiency (%) | 19.3       | 19.8 | 19.0 | 20.3 | 19.1 | 19.2 | 19.9 | 19.6 | 19.0 |
| Efficiency(dB) | -9.9       | -9.8 | -9.8 | -8.8 | -9.8 | -9.8 | -9.8 | -9.9 | -9.9 |
| Gain(dBi)      | -3.5       | -3.9 | -4.0 | -3.0 | -3.8 | -3.3 | -3.5 | -3.6 | -3.8 |

| Test           | Hand  |       |       |       |      |       |       |       |       |
|----------------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| Test Point ID  | 1     | 2     | 3     | 4     | 5    | 6     | 7     | 8     | 9     |
| Freq. (MHz)    | 2400  | 2410  | 2420  | 2430  | 2440 | 2450  | 2460  | 2470  | 2480  |
| Efficiency (%) | 9.4   | 9.6   | 9.5   | 10.0  | 10.2 | 10.1  | 9.8   | 9.4   | 9.2   |
| Efficiency(dB) | -10.3 | -10.2 | -10.2 | -10.0 | -9.9 | -10.0 | -10.1 | -10.3 | -10.4 |
| Gain(dBi)      | -4.4  | -4.2  | -4.3  | -3.9  | -3.8 | -3.7  | -4.0  | -4.2  | -4.5  |

# GPS SWR

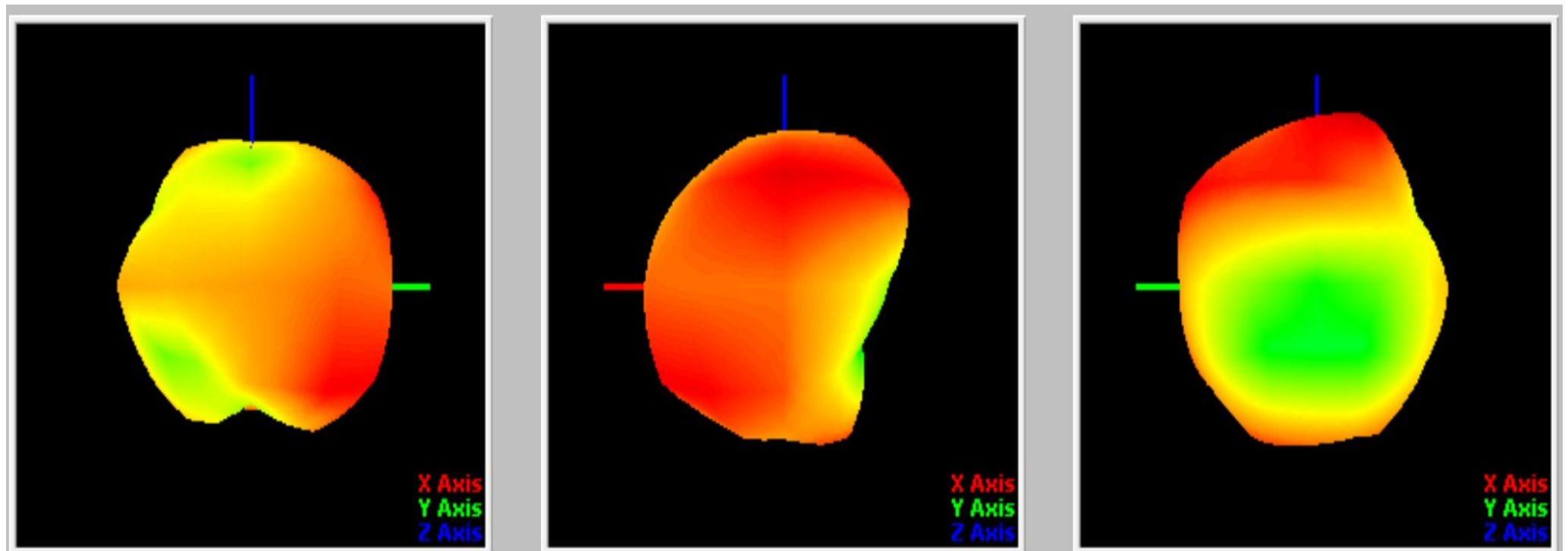


## GPS efficiency

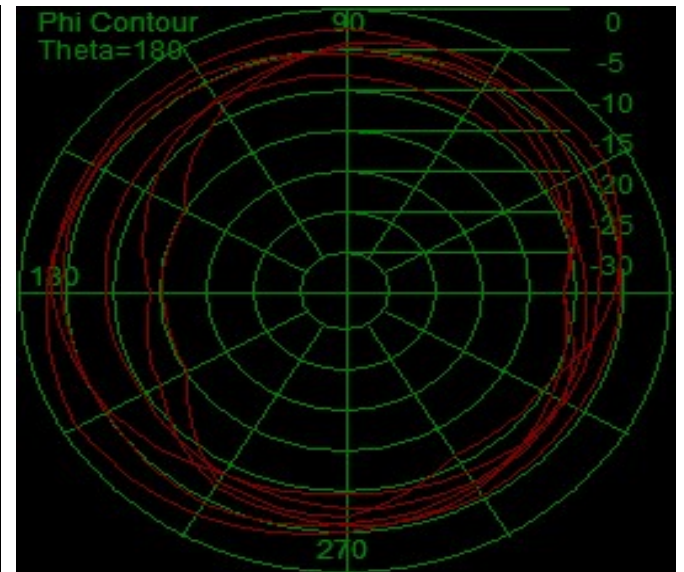
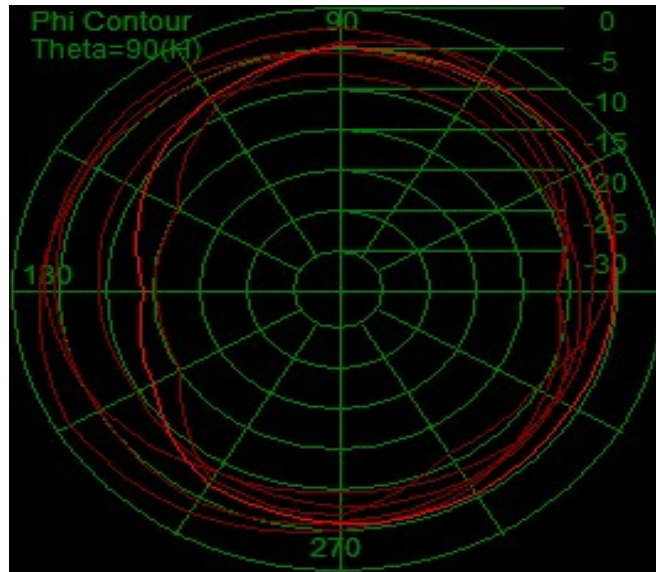
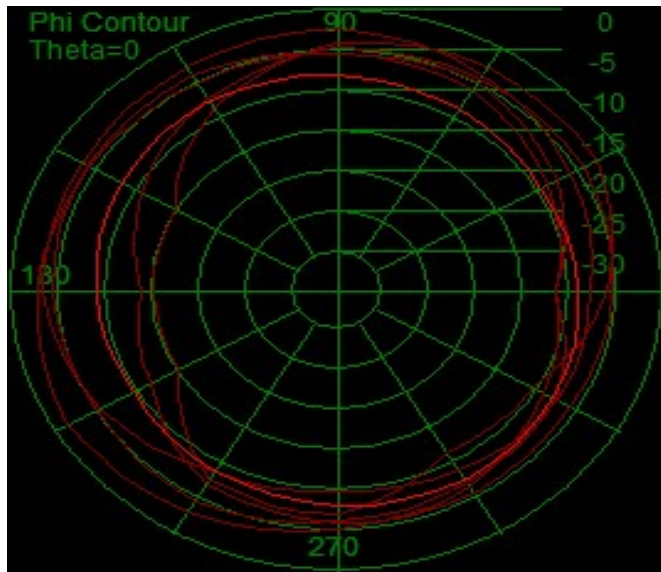
| Test           | Free-space  |             |             |             |             |
|----------------|-------------|-------------|-------------|-------------|-------------|
| Test Point ID  | 1           | 2           | 3           | 4           | 5           |
| Freq. (MHz)    | <b>1555</b> | <b>1565</b> | <b>1575</b> | <b>1585</b> | <b>1595</b> |
| Efficiency (%) | 28.4        | 29.6        | 30.7        | 30.0        | 28.9        |
| Efficiency(dB) | -5.5        | -5.3        | -5.1        | -5.2        | -5.4        |
| Gain(dBi)      | -1.3        | -1.0        | -0.7        | -0.9        | -1.1        |

| Test           | Hand        |             |             |             |             |
|----------------|-------------|-------------|-------------|-------------|-------------|
| Test Point ID  | 1           | 2           | 3           | 4           | 5           |
| Freq. (MHz)    | <b>1555</b> | <b>1565</b> | <b>1575</b> | <b>1585</b> | <b>1595</b> |
| Efficiency (%) | 6.7         | 7.0         | 7.5         | 7.1         | 6.6         |
| Efficiency(dB) | -11.7       | -11.5       | -11.2       | -11.5       | -11.8       |
| Gain(dBi)      | -5.5        | -5.2        | -4.8        | -5.1        | -5.6        |

## BT direction diagram



# BT direction diagram



Antenna size    mm

BT

