

# Wide Band Flexible Antenna(700–3000MHz)

TECHNICAL DATA SHEET

07-20-001-01A

## Electrical Specifications:

|                      |                  |       |                |           |            |           |
|----------------------|------------------|-------|----------------|-----------|------------|-----------|
| Band                 | 750/850/900      | 1575  | 1700/1800/1900 | 2100      | 2400       | 2600      |
| Standard             | CELL             | GPS   | CELL           | CELL      | ISM        | CELL      |
| Frequency            | 740 – 1000       | 1575  | 1600 -1990     | 1755-2170 | 2400 -2500 | 2500-2690 |
| Return Loss (dB)     | < -5 dB          | <-7dB | < -10 dB       | < -10 dB  | < -10 dB   | < -10 dB  |
| Efficiency (%)       | 70%              | 74 %  | 90%            | 90%       | 90%        | 86%       |
| Gain (dBi)           | 2.2              | 3.3   | 2.4            | 2.5       | 3.7        | 3.9       |
| Impedance            | 50 Ohms          |       |                |           |            |           |
| Polarization         | Linear           |       |                |           |            |           |
| Radiation Properties | Omni Directional |       |                |           |            |           |
| Power handled        | 5W               |       |                |           |            |           |

## Mechanical Specifications:

|                        |                        |
|------------------------|------------------------|
| Dimensions             | 76 X 24.8 X 0.2 mm     |
| Weight                 | 1.8 g                  |
| Connector              | MHFI (U.FL Compatible) |
| Cable Standard         | Mini-Coax 1.37 mm      |
| Cable Length and color | 100 mm, Black          |

## Environmental Specifications:

|                     |                  |
|---------------------|------------------|
| Operation           | -40 °C to +85 °C |
| Storage Temperature | -40 °C to +85 °C |
| RoHS Compliant      | Yes              |



# ASTHRA PROJECTS

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| Band Number | LTE/LTE-Advanced/WCDMA/HSPA/HSPA+/TD-SCDMA |                                |         |
|-------------|--|--------------------------------|---------|
|             | Uplink                                     | Downlink                       | Covered |
| 1           | 1920 MHz – 1980 MHz                        | 2110 MHz – 2170 MHz            | YES     |
| 2           | 1850 MHz – 1910 MHz                        | 1930 MHz – 1990 MHz            | YES     |
| 3           | 1710 MHz – 1785 MHz                        | 1805 MHz – 1880 MHz            | YES     |
| 4           | 1710 MHz – 1755 MHz                        | 2110 MHz – 2155 MHz            | YES     |
| 5           | 824 MHz – 849 MHz                          | 869 MHz – 894 MHz              | YES     |
| 6           | 875 MHz – 885 MHz                          | 830 MHz – 840 MHz              | YES     |
| 7           | 2500 MHz – 2570 MHz                        | 2620 MHz – 2690 MHz            | YES     |
| 8           | 880 MHz – 915 MHz                          | 925 MHz – 960 MHz              | YES     |
| 9           | 1749.9 MHz – 1784.9 MHz                    | 1844.9 MHz – 1879.9 MHz        | YES     |
| 10          | 1710 MHz – 1770 MHz                        | 2110 MHz – 2170 MHz            | YES     |
| 13          | 777 MHz – 787 MHz                          | 746 MHz – 756 MHz              | YES     |
| 14          | 788 MHz – 798 MHz                          | 758 MHz – 768 MHz              | YES     |
| 18          | 815 MHz – 830 MHz                          | 860 MHz -875 MHz (LTE ONLY)    | YES     |
| 19          | 830 MHz – 845 MHz                          | 875 MHz – 890 MHz              | YES     |
| 20          | 832 MHz – 862 MHz                          | 791 MHz -821 MHz               | YES     |
| 23          | 2000 MHz – 2020 MHz                        | 2180 MHz – 2200 MHz (LTE ONLY) | YES     |
| 24          | 1625.5 MHz – 1660.5 MHz                    | 1525 MHz – 1559 MHz (LTE ONLY) | YES     |
| 25          | 1850 MHz – 1915 MHz                        | 1930 MHz -1995 MHz             | YES     |
| 26          | 814 MHz – 849 MHz                          | 859 MHz – 894 MHz              | YES     |
| 27          | 807 MHz – 824 MHz                          | 852 MHz – 869 MHz(LTE ONLY)    | YES     |

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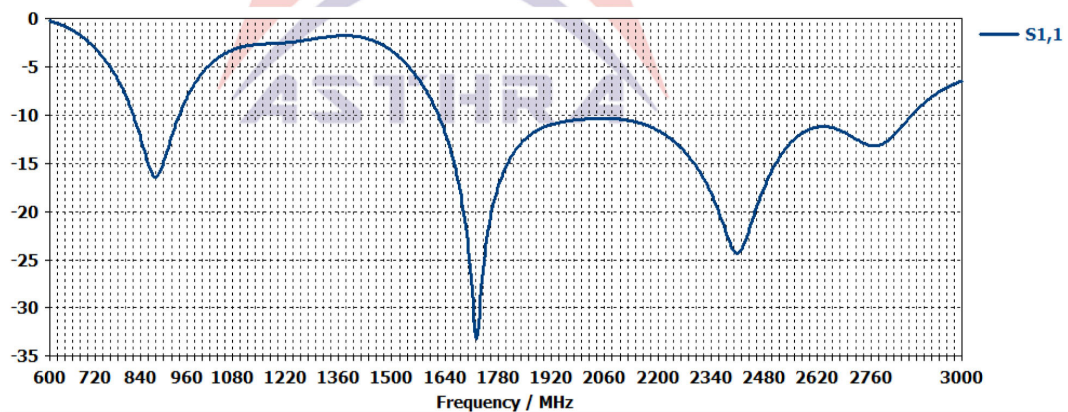
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|    |                     |                                   |     |
|----|---------------------|-----------------------------------|-----|
| 30 | 2305 MHz – 2315 MHz | 2350 MHz – 2360 MHz<br>(LTE ONLY) | YES |
| 70 | 1695 MHz – 1710 MHz | 1995 MHz – 2020 MHz               | YES |
| 33 |                     | 1900 - 1920                       | YES |
| 34 |                     | 2010 - 2025                       | YES |
| 35 |                     | 1850 - 1910                       | YES |
| 36 |                     | 1930 - 1990                       | YES |
| 37 |                     | 1910 - 1930                       | YES |
| 38 |                     | 2570 - 2620                       | YES |
| 39 |                     | 1880 - 1920                       | YES |
| 40 |                     | 2300 - 2400                       | YES |
| 41 |                     | 2496 - 2690                       | YES |

## Return Loss:



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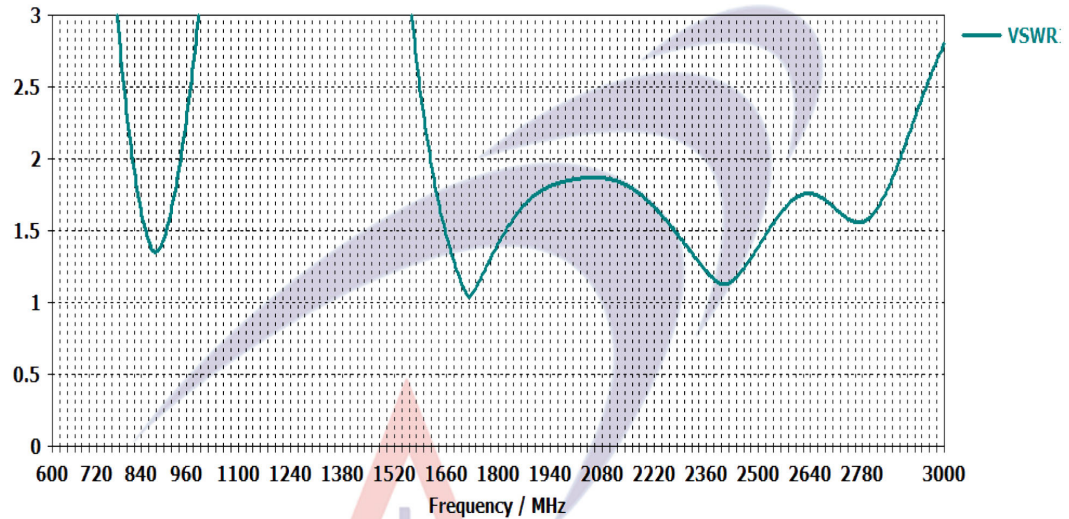
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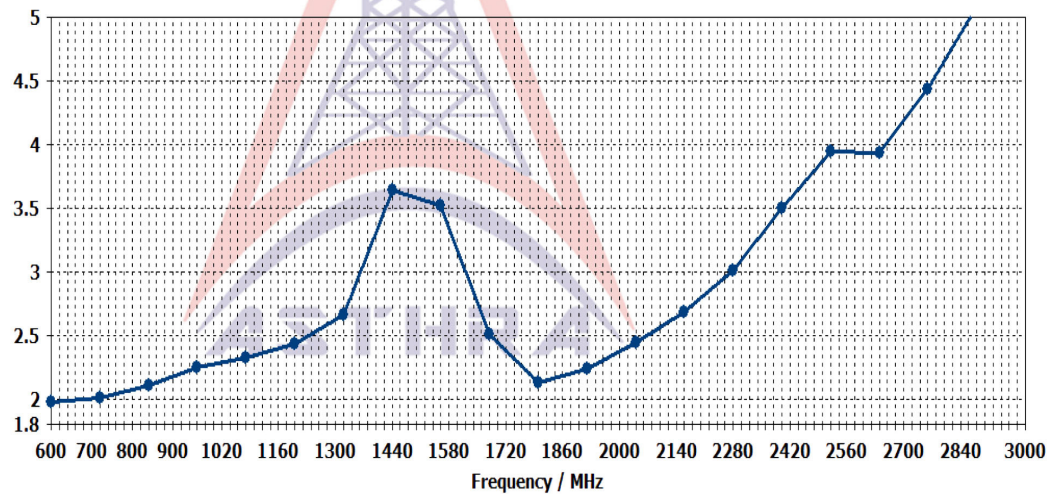
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## VSWR:



## Peak Gain (dBi):



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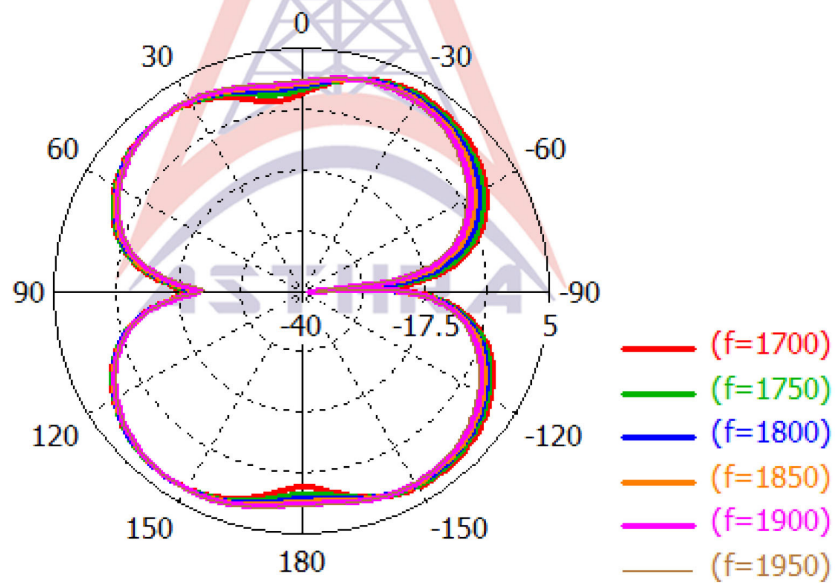
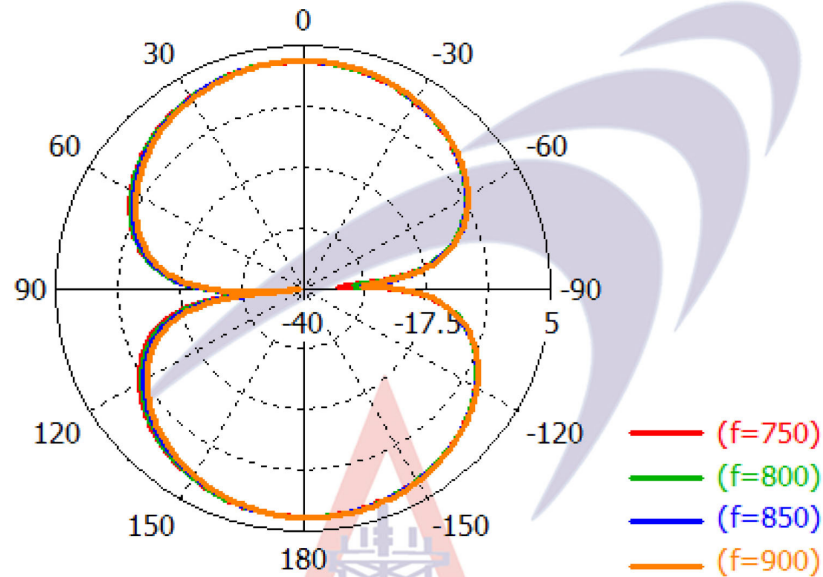
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## Radiation Pattern of XY Plane:



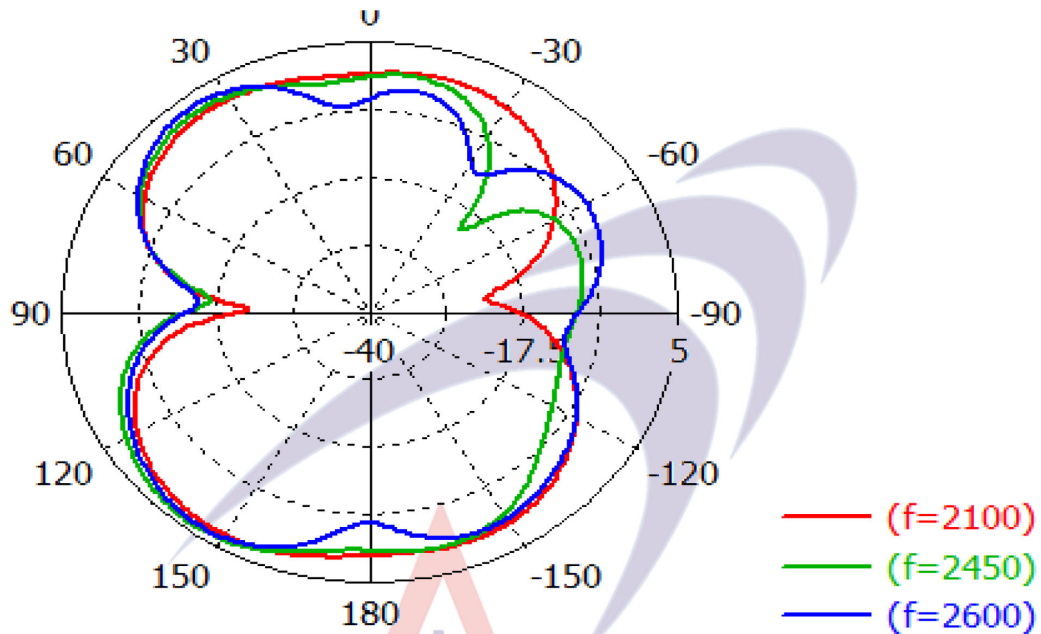
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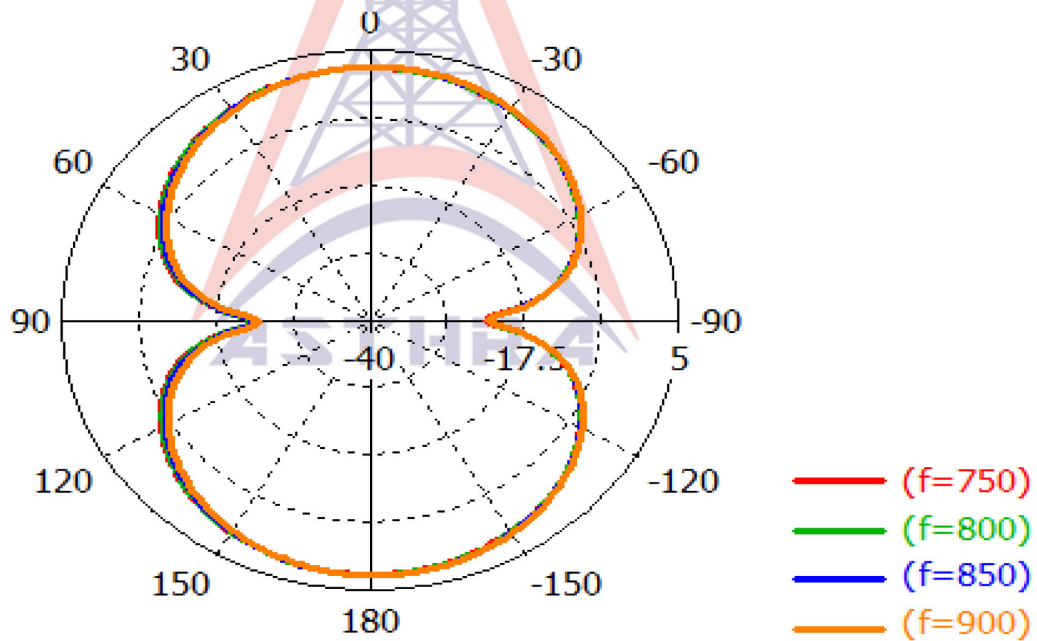
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## Radiation Pattern of XZ Plane:



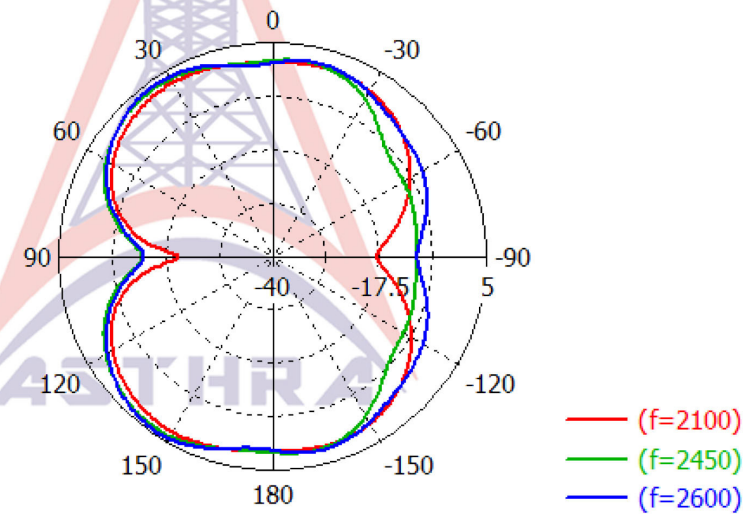
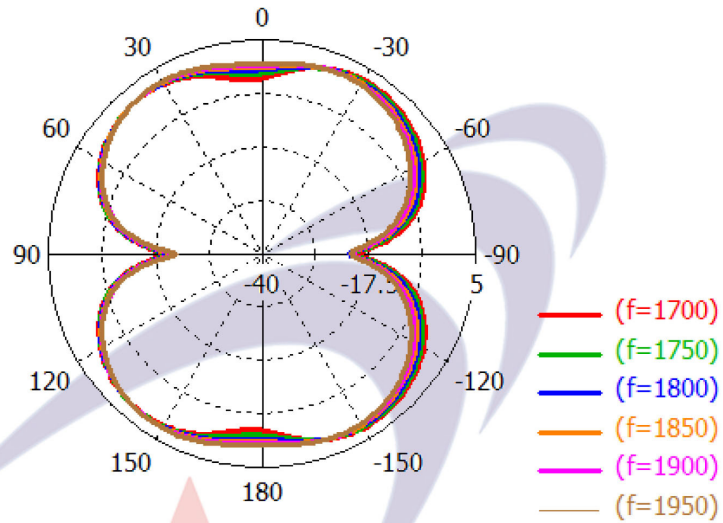
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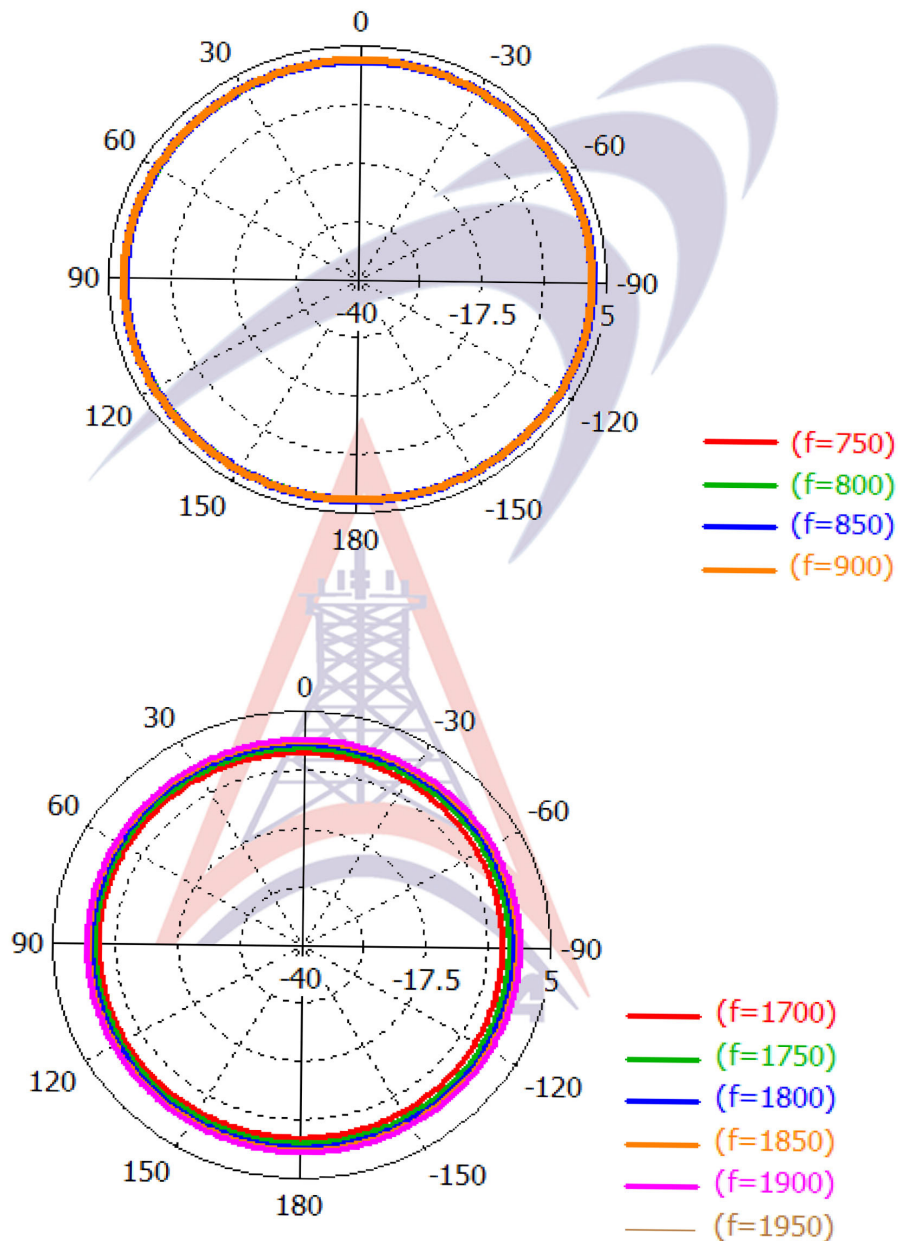
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## Radiation Pattern of YZ Plane:



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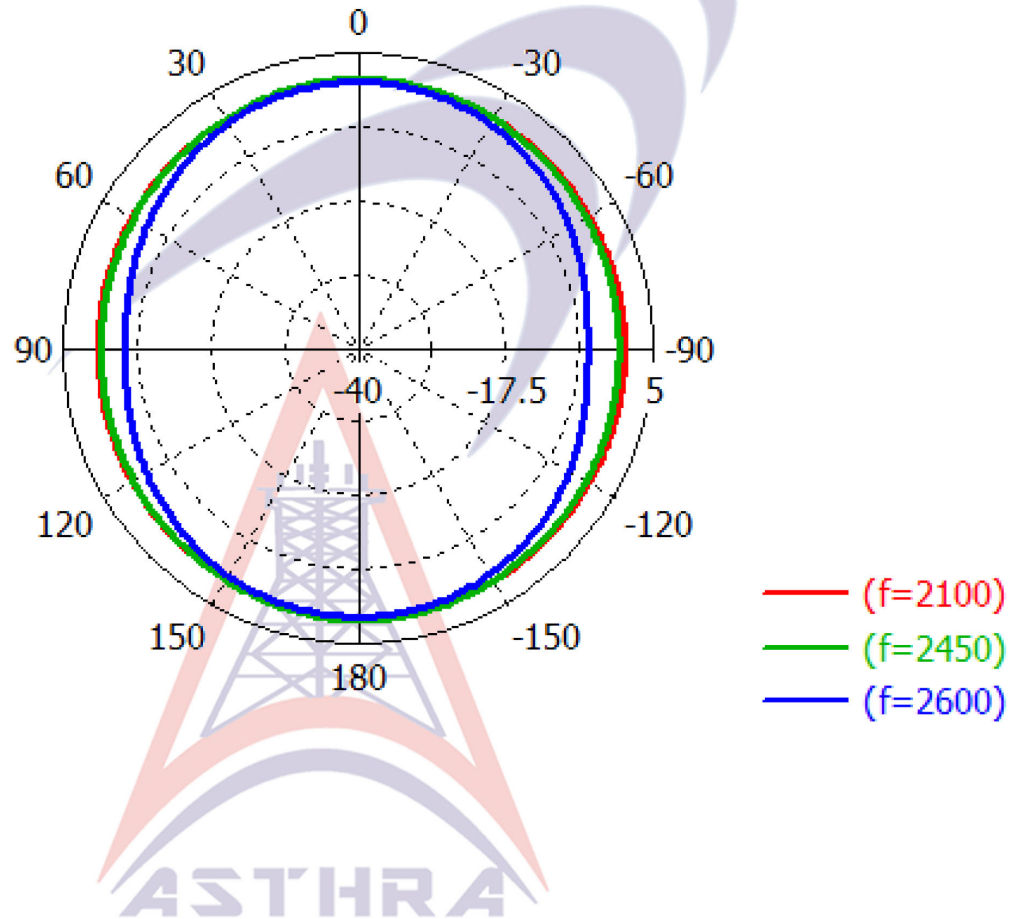
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