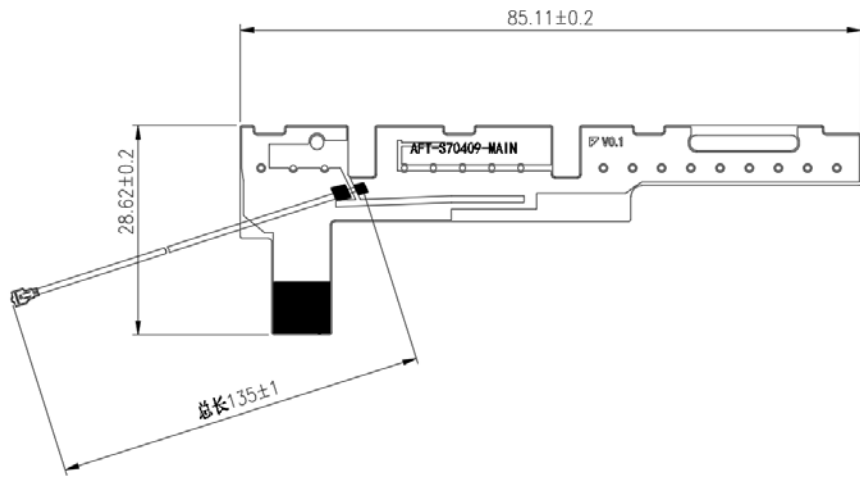
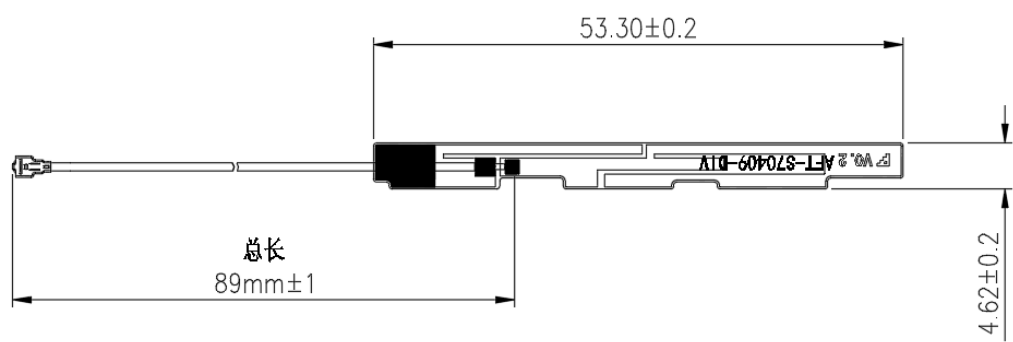
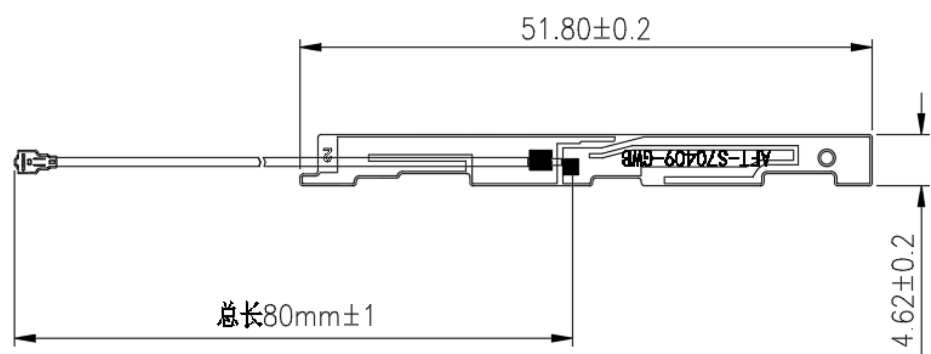


# Antenna specification

| Name and address of the antenna manufacturer                                                                                                                                           | Model number of the antenna |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| AFT tech Electronic Co., Ltd. (Shenzhen)<br>Address: Room 302, 3/F, Building B,<br>Gangshen Innovation Park, No. 40 Huaning<br>Road, Dalang Subdistrict, Longhua District,<br>Shenzhen | S70409                      |

Antenna size:



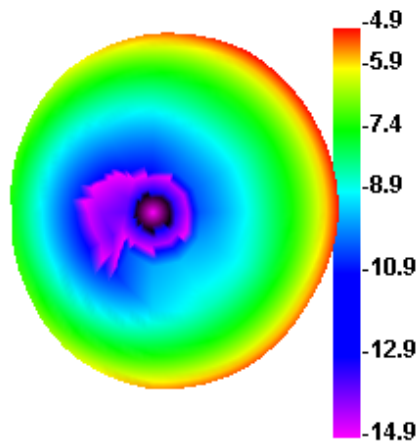


## Main antenna efficiency & gain

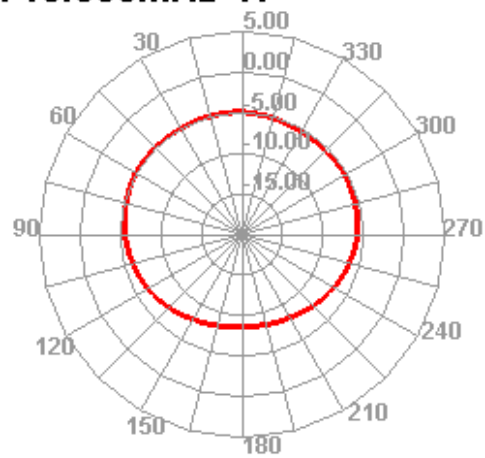
| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) | Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) | Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|---------------|-------------|---------------|---------------|-------------|---------------|
| 700           | 13.87       | -6            | 1700          | 20.8        | -3.15         | 2300          | 37.99       | -0.77         |
| 710           | 16.99       | -4.86         | 1720          | 24.49       | -1.08         | 2320          | 37.19       | -1.09         |
| 720           | 17.17       | -4.92         | 1740          | 23.62       | -1.2          | 2340          | 33.86       | -1.97         |
| 730           | 18.67       | -4.35         | 1760          | 20.45       | -1.68         | 2360          | 31.41       | -2.54         |
| 740           | 17.83       | -4.6          | 1780          | 15.9        | -2.84         | 2380          | 29.73       | -2.53         |
| 750           | 17.7        | -4.5          | 1800          | 14.56       | -5.11         | 2400          | 29.22       | -1.86         |
| 760           | 15.34       | -5.37         | 1820          | 14.88       | -5.24         | 2420          | 29.18       | -1.32         |
| 770           | 14.9        | -5.64         | 1840          | 13.12       | -6.3          | 2440          | 27.34       | -1.31         |
| 780           | 14.36       | -6.13         | 1860          | 12.27       | -6.62         | 2460          | 26.39       | -1.57         |
| 790           | 15.9        | -5.55         | 1880          | 13.42       | -5.94         | 2480          | 33.01       | -0.85         |
| 800           | 15.38       | -5.92         | 1900          | 12.95       | -6.22         | 2500          | 26.17       | -2.12         |
| 810           | 16.91       | -5.49         | 1920          | 14.97       | -5.6          | 2520          | 29.9        | -1.85         |
| 820           | 16.92       | -5.65         | 1940          | 13.71       | -5.15         | 2540          | 26.69       | -2.47         |
| 830           | 15.13       | -6.37         | 1960          | 14.71       | -4.37         | 2560          | 21.14       | -3.76         |
| 840           | 14.29       | -6.57         | 1980          | 15.53       | -3.78         | 2580          | 29.28       | -2.76         |
| 850           | 13.53       | -6.88         | 2000          | 15.55       | -3.62         | 2600          | 26.64       | -3.09         |
| 860           | 13.83       | -6.56         | 2020          | 12.21       | -4.33         | 2620          | 24.8        | -3.32         |
| 870           | 13.62       | -6.73         | 2040          | 13.2        | -3.89         | 2640          | 29.39       | -2.57         |
| 880           | 14.34       | -5.93         | 2060          | 12.24       | -4.2          | 2660          | 24.4        | -3.33         |
| 890           | 14.89       | -5.8          | 2080          | 15.32       | -3.09         | 2680          | 21.46       | -4.14         |
| 900           | 15.48       | -5.17         | 2100          | 16.96       | -2.51         | 2700          | 25.1        | -3.4          |
| 910           | 16.71       | -4.92         | 2120          | 22.61       | -1.1          |               |             |               |
| 920           | 16.24       | -4.79         | 2140          | 30.58       | 0.14          |               |             |               |
| 930           | 16.2        | -4.95         | 2160          | 30.65       | -0.31         |               |             |               |
| 940           | 15.54       | -5.12         | 2180          | 40.41       | 0.12          |               |             |               |
| 950           | 16.39       | -5.01         | 2200          | 45.62       | 0.76          |               |             |               |
| 960           | 14.56       | -5.56         | 2220          | 43.3        | 0.76          |               |             |               |
|               |             |               | 2240          | 42.74       | 0.52          |               |             |               |
|               |             |               | 2260          | 40.98       | -0.05         |               |             |               |
|               |             |               | 2280          | 38.46       | -0.51         |               |             |               |

Main antenna apple diagram & direction diagram

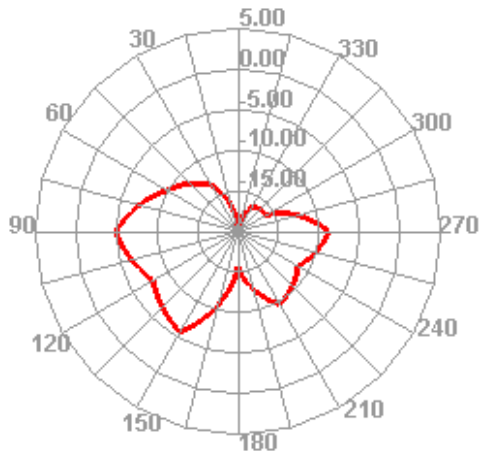
**710.000MHz**



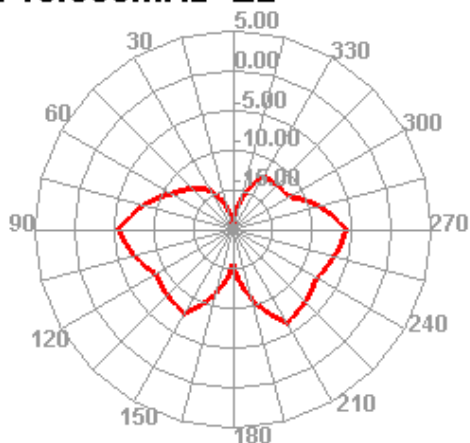
**710.000MHz H**



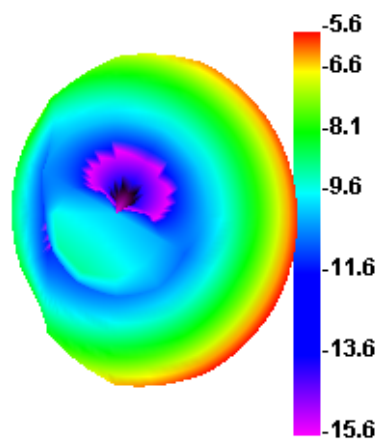
**710.000MHz E1**



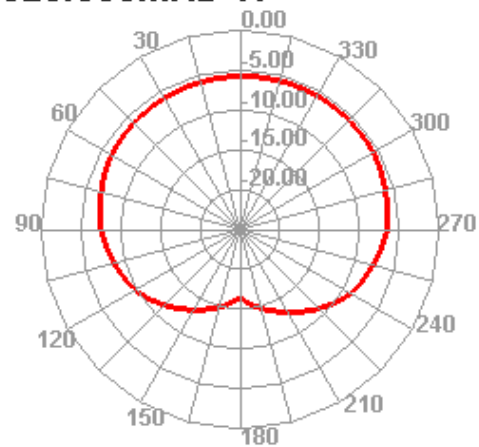
**710.000MHz E2**



**820.000MHz**



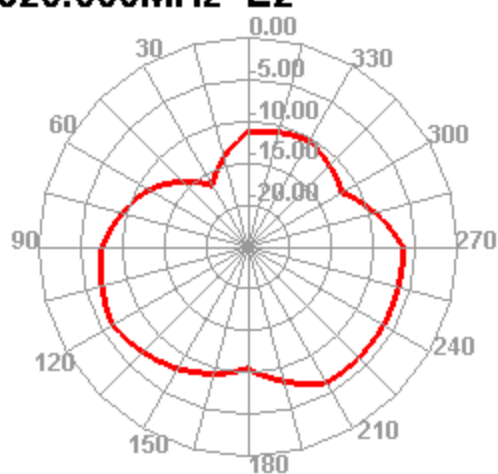
**820.000MHz H**



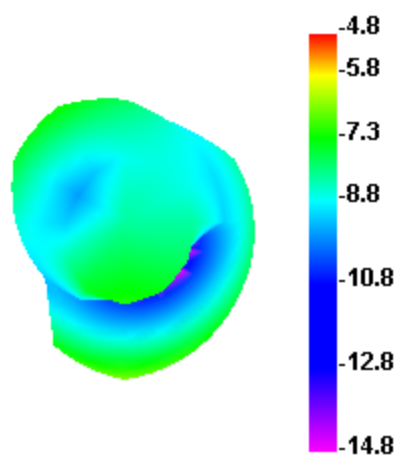
**820.000MHz E1**



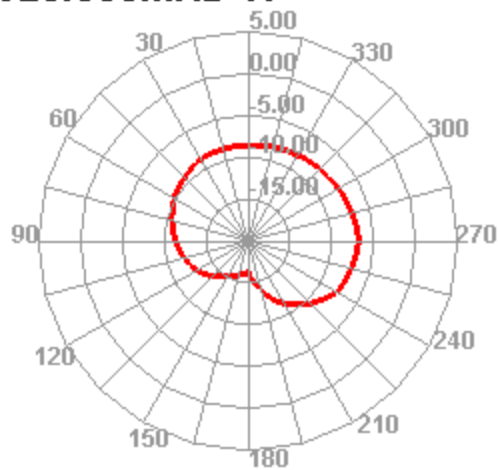
**820.000MHz E2**



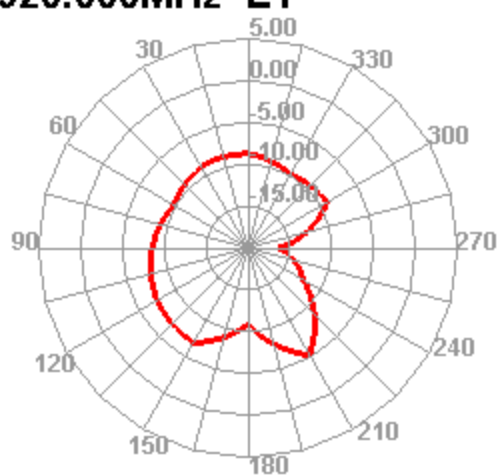
**920.000MHz**



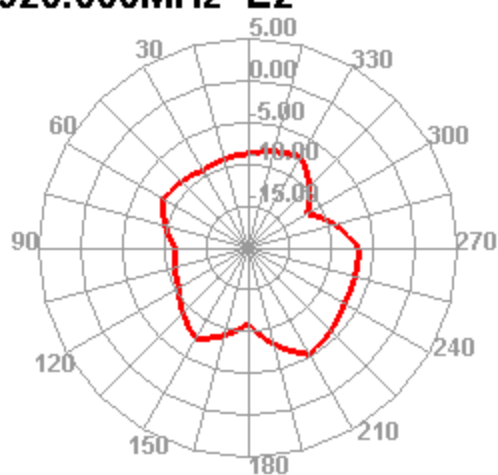
**920.000MHz H**



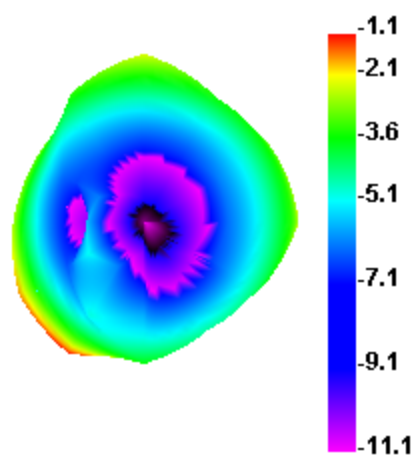
**920.000MHz E1**



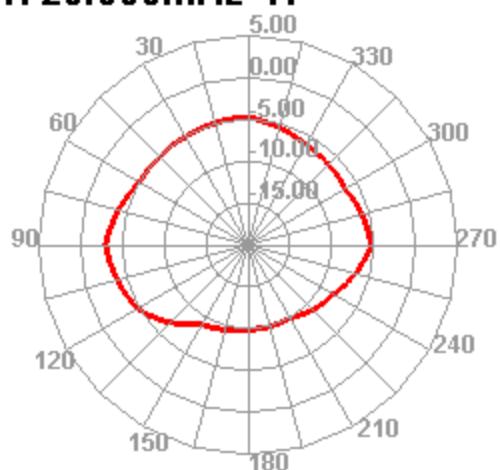
**920.000MHz E2**



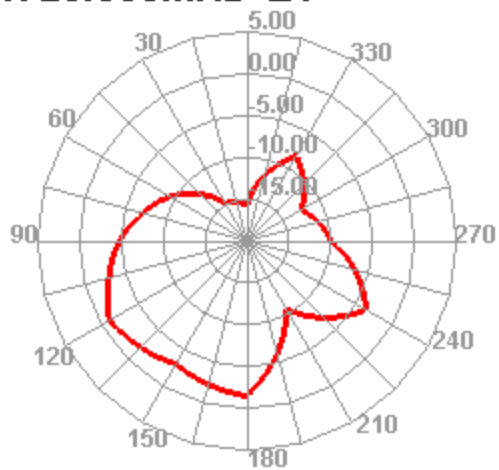
1720.000MHz



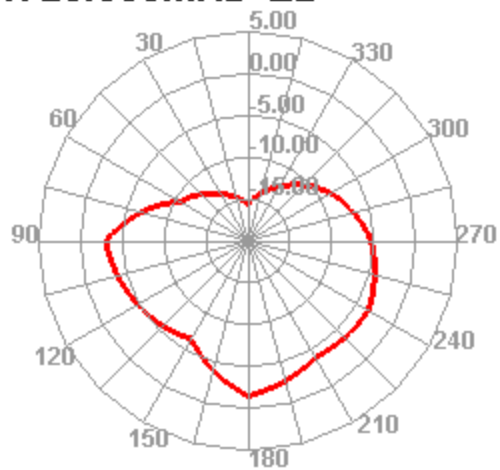
1720.000MHz H



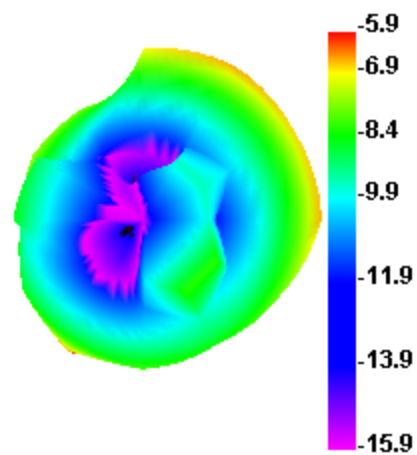
1720.000MHz E1



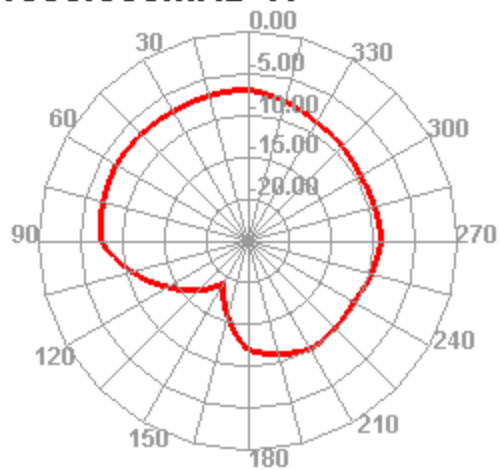
1720.000MHz E2



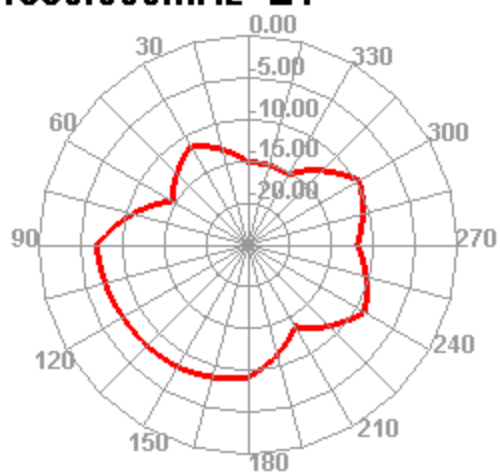
1880.000MHz



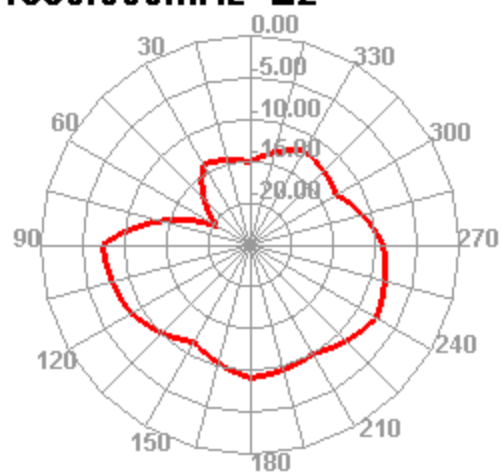
1880.000MHz H



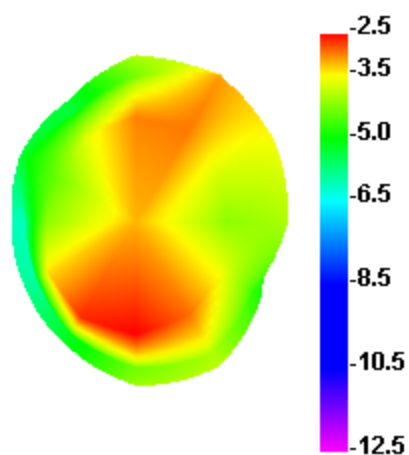
**1880.000MHz E1**



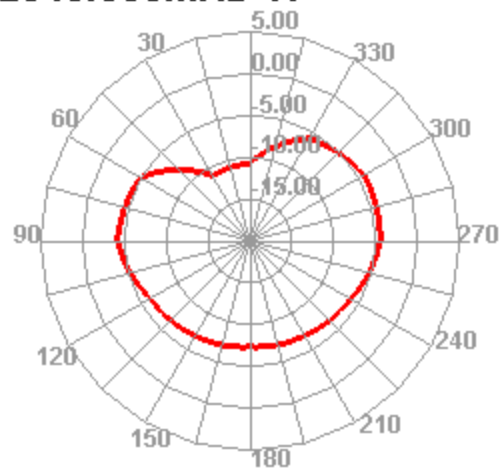
**1880.000MHz E2**



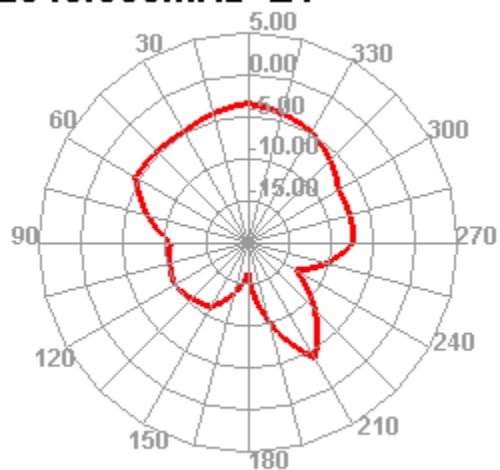
**2540.000MHz**



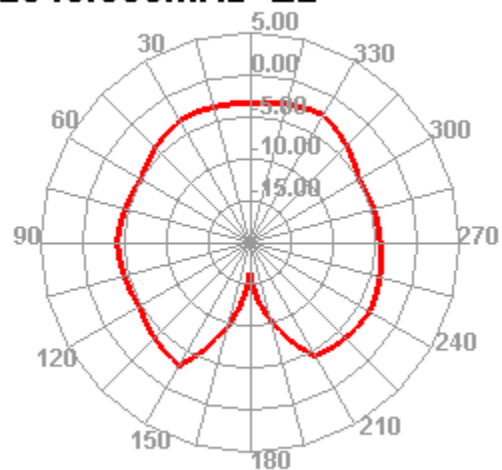
**2540.000MHz H**



**2540.000MHz E1**



**2540.000MHz E2**

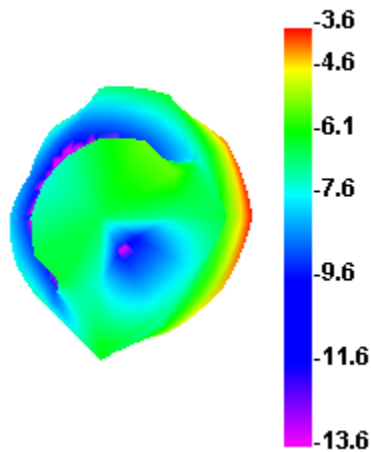


### Three-element antenna efficiency & gain

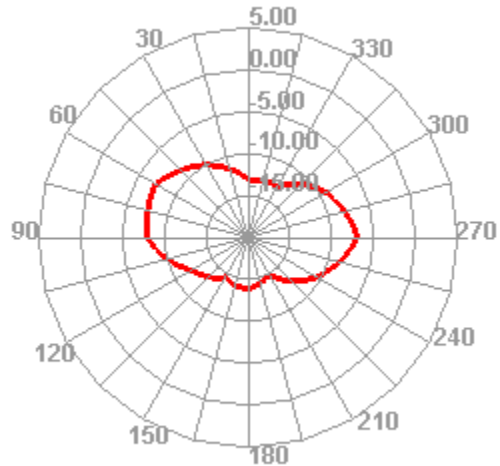
| Freq (MHz) | Effi (%) | Gain (dBi) | Freq (MHz) | Effi (%) | Gain (dBi) | Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|------------|----------|------------|------------|----------|------------|
| 1555       | 19.38    | -3.39      | 2400       | 30.69    | 0.26       | 5150       | 25.27    | 1.61       |
| 1557       | 18.69    | -3.62      | 2410       | 30.68    | -0.1       | 5200       | 29.76    | 2.18       |
| 1559       | 17.89    | -3.92      | 2420       | 34.77    | 0.17       | 5250       | 36.61    | 2.85       |
| 1561       | 17.51    | -4.09      | 2430       | 33.12    | -0.27      | 5300       | 30.18    | 2.34       |
| 1563       | 17.69    | -4.06      | 2440       | 38.27    | 0.27       | 5350       | 28.43    | 2.39       |
| 1565       | 18.09    | -3.93      | 2450       | 37.96    | 0.19       | 5400       | 29.97    | 2.11       |
| 1567       | 17.76    | -4.02      | 2460       | 40.6     | 0.83       | 5450       | 38.25    | 2.38       |
| 1569       | 16.84    | -4.31      | 2470       | 40.73    | 0.89       | 5500       | 38.59    | 1.41       |
| 1571       | 16.03    | -4.5       | 2480       | 42.61    | 1.45       | 5550       | 38.52    | 1.24       |
| 1573       | 15.79    | -4.46      | 2490       | 41.08    | 0.85       | 5600       | 32.79    | 1.09       |
| 1575       | 16.03    | -4.26      | 2500       | 41.08    | 1.16       | 5650       | 32.92    | 1.23       |
| 1577       | 16.15    | -4.13      |            |          |            | 5700       | 39.05    | 2.02       |
| 1579       | 15.69    | -4.24      |            |          |            | 5750       | 43.67    | 2.63       |
| 1581       | 14.73    | -4.57      |            |          |            | 5800       | 41.97    | 2.78       |
| 1583       | 13.92    | -4.89      |            |          |            | 5850       | 43.77    | 3          |
| 1585       | 13.67    | -4.97      |            |          |            |            |          |            |

### Three-in-one antenna Apple diagram & direction diagram

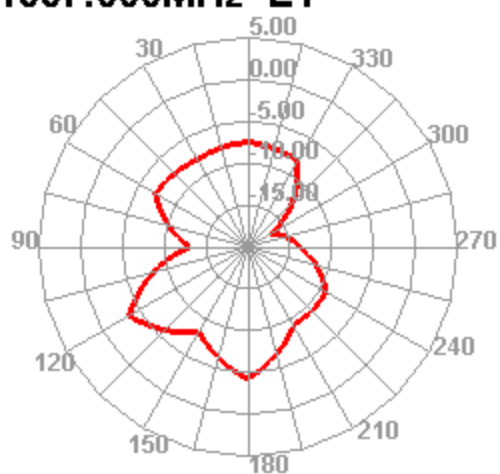
1557.000MHz



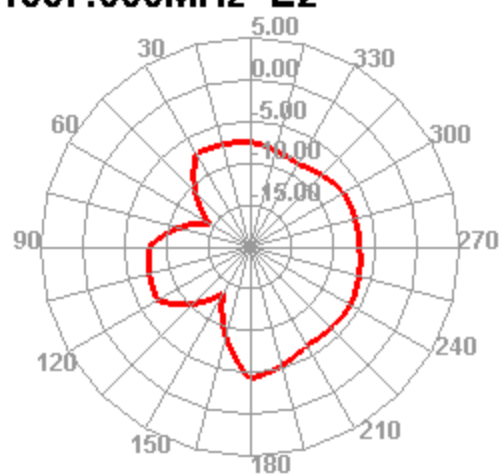
1557.000MHz H



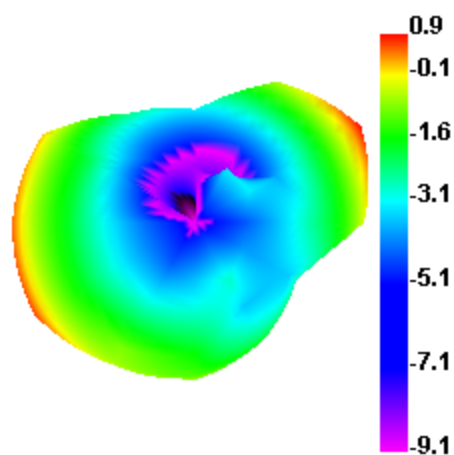
**1557.000MHz E1**



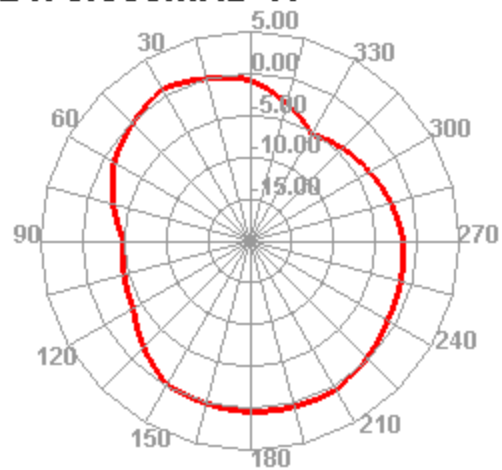
**1557.000MHz E2**



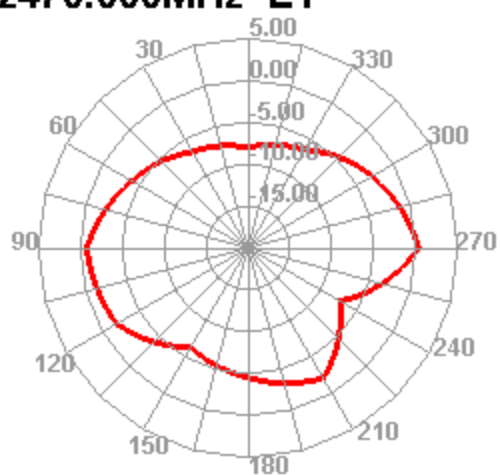
**2470.000MHz**



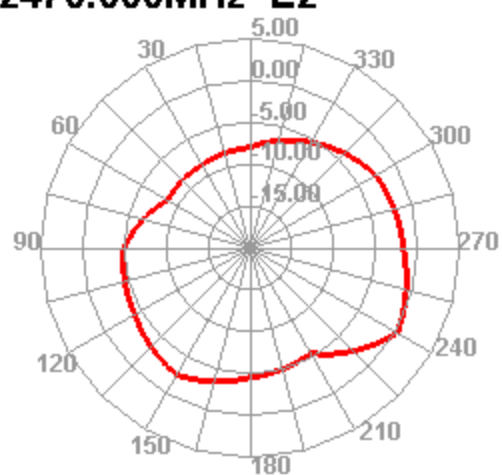
**2470.000MHz H**



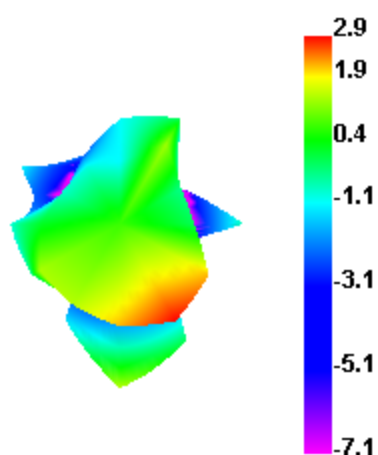
**2470.000MHz E1**



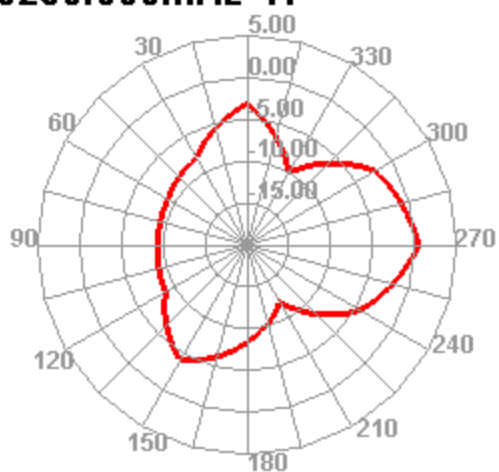
**2470.000MHz E2**



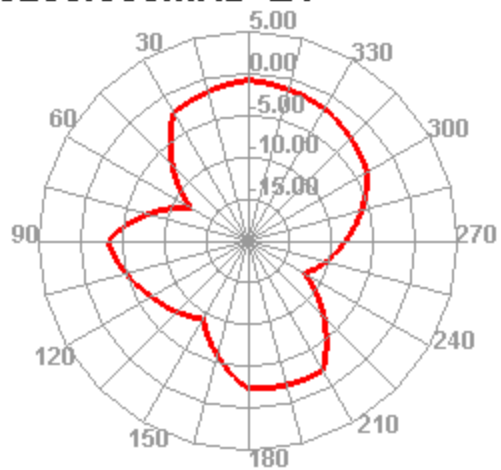
5250.000MHz



5250.000MHz H



5250.000MHz E1



5250.000MHz E2

