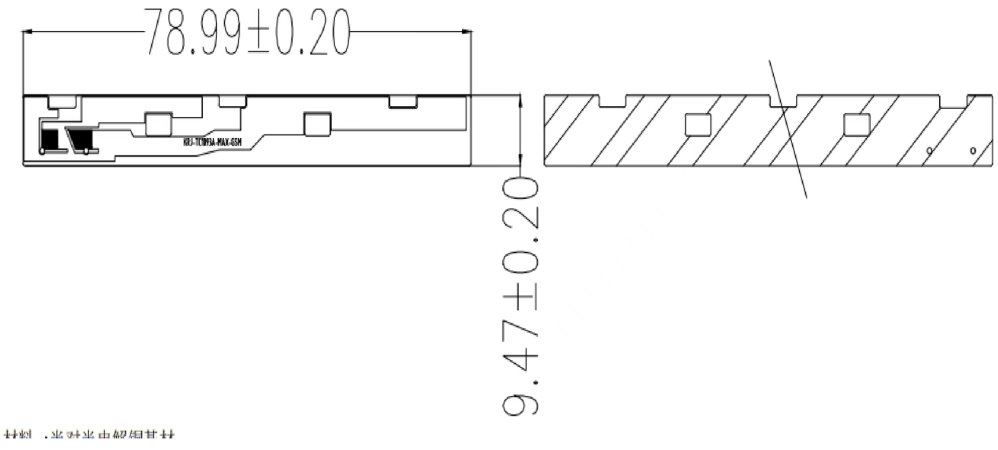
# *Antenna Test Report*

## *Test Lab:Shenzhen Kuruijie Communication Technologies Co.,Ltd*

***manufacturer:Shenzhen Kuruijie Communication Technologies Co.,Ltd***
***Project: TC1093A  The beautiful version***

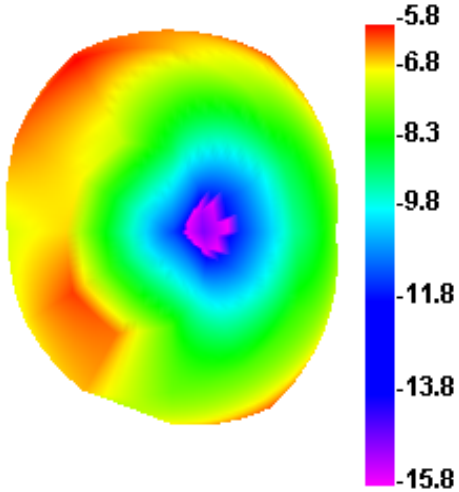
Antenna Model:JRJ-TC1093A-MAX-GSM



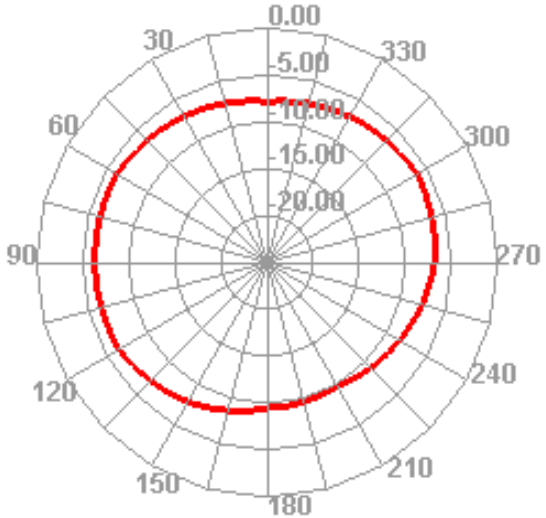
| Passive Test For 600-900 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) | Max (dB) | Min (dB) | Directivity (dBi) |
| 650 | 15.85 | -8.04 | -5.02 | -7.17 | -6.02 | -19.67 | 9.64 |
| 660 | 16.23 | -8.03 | -4.78 | -6.93 | -5.78 | -17.96 | 9.13 |
| 670 | 16.41 | -8.03 | -4.82 | -6.97 | -5.82 | -17.06 | 8.73 |
| 680 | 16.55 | -8.08 | -4.04 | -6.19 | -6.04 | -18.04 | 8.68 |
| 690 | 16.91 | -8.07 | -4.77 | -6.92 | -5.77 | -19.55 | 8.57 |
| 700 | 16.56 | -8.08 | -4.73 | -6.88 | -5.73 | -21.91 | 8.68 |
| 710 | 16.93 | -8.08 | -4.49 | -6.64 | -5.49 | -23.59 | 8.88 |
| 720 | 16.25 | -8.08 | -4.1 | -6.25 | -5.1 | -23.41 | 8.78 |
| 730 | 16.84 | -8.09 | -4.83 | -6.98 | -4.83 | -21.02 | 8.59 |
| 740 | 16.67 | -8.64 | -4.82 | -6.97 | -4.82 | -18.67 | 8.64 |
| 750 | 16.15 | -7.92 | -4.09 | -6.24 | -4.09 | -16.54 | 7.92 |
| 760 | 16.19 | -7.91 | -4.21 | -6.36 | -4.21 | -15.58 | 7.91 |
| 770 | 16.03 | -7.95 | -4.35 | -6.5 | -4.35 | -15.14 | 7.95 |
| 780 | 17.66 | -7.53 | -3.96 | -6.11 | -3.96 | -14.48 | 7.53 |
| 790 | 17.07 | -7.68 | -4.14 | -6.29 | -4.14 | -14.59 | 7.68 |
| 800 | 19.02 | -7.23 | -4.68 | -6.83 | -4.68 | -15.45 | 8.23 |
| 810 | 19.99 | -7.96 | -4.52 | -6.67 | -4.52 | -15.16 | 7.96 |
| 820 | 19.02 | -7.85 | -5.06 | -7.21 | -5.06 | -16.81 | 8.85 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 830 | 20.54 | -7.69 | -4.65 | -6.8 | -4.65 | -18.22 | 8.69 |
| 840 | 20.17 | -7.65 | -4.09 | -6.24 | -4.09 | -16.91 | 7.65 |
| 850 | 20.94 | -7 | -3.49 | -5.64 | -3.49 | -15.94 | 7 |
| 860 | 23.11 | -6.36 | -2.68 | -4.83 | -2.68 | -15.57 | 6.36 |
| 870 | 24.02 | -6.19 | -2.34 | -4.49 | -2.34 | -15.48 | 6.19 |
| 880 | 27.77 | -5.56 | -1.52 | -3.67 | -1.52 | -14.94 | 5.56 |
| 890 | 27.7 | -5.58 | -1.36 | -3.51 | -1.36 | -14.24 | 5.58 |
| 900 | 29.49 | -5.3 | -0.88 | -3.03 | -0.88 | -13.21 | 5.3 |
| 910 | 29.63 | -5.28 | -0.6 | -2.75 | -0.6 | -12.53 | 5.28 |
| 920 | 28.78 | -5.41 | -0.65 | -2.8 | -0.65 | -12.11 | 5.41 |
| 930 | 31.57 | -5.01 | -0.18 | -2.33 | -0.18 | -11.04 | 5.01 |
| 940 | 27.68 | -5.58 | -0.66 | -2.81 | -0.66 | -12.15 | 5.58 |
| 950 | 25.15 | -6 | -1 | -3.15 | -1 | -13.56 | 6 |
| 960 | 22.27 | -6.52 | -1.54 | -3.69 | -1.54 | -15.46 | 6.52 |

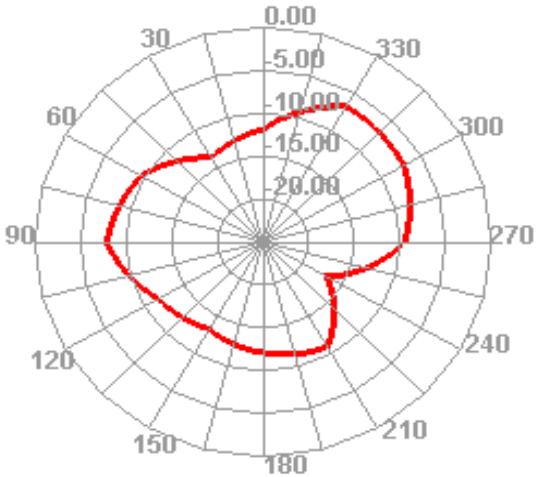
670.000MHz



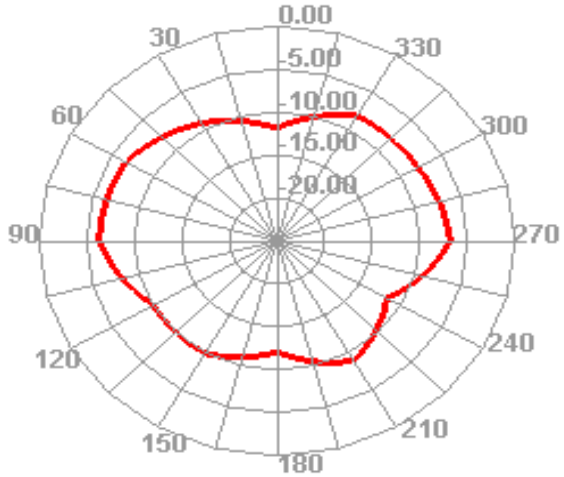

670.000MHz H



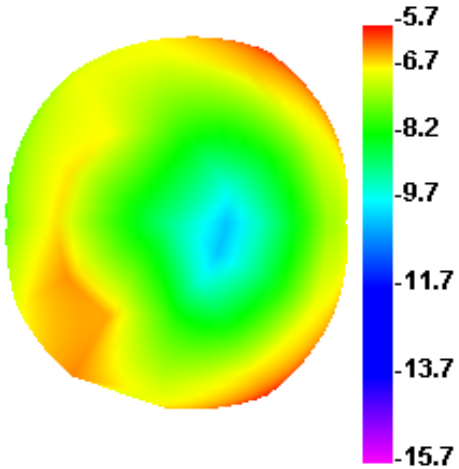

670.000MHz E1




670.000MHz E2



700.000MHz

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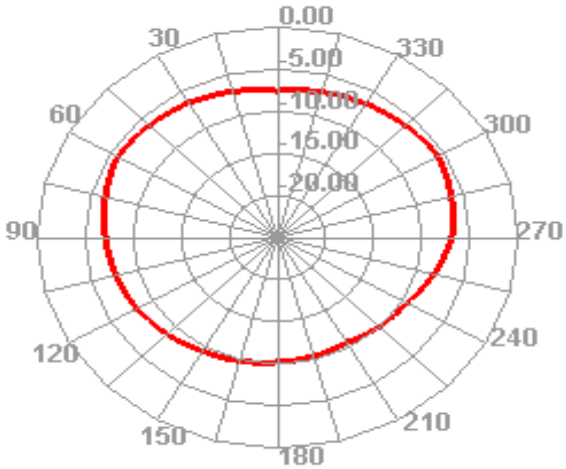
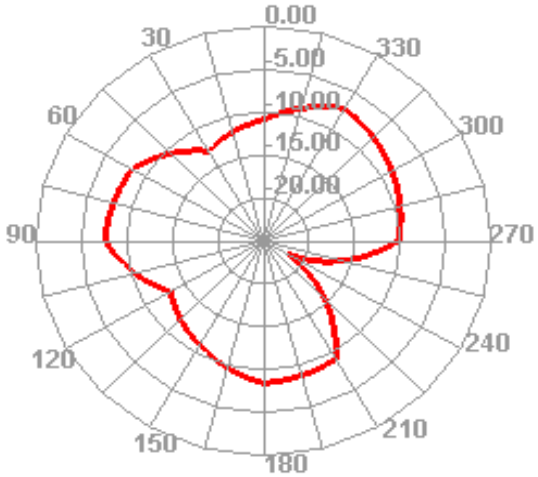
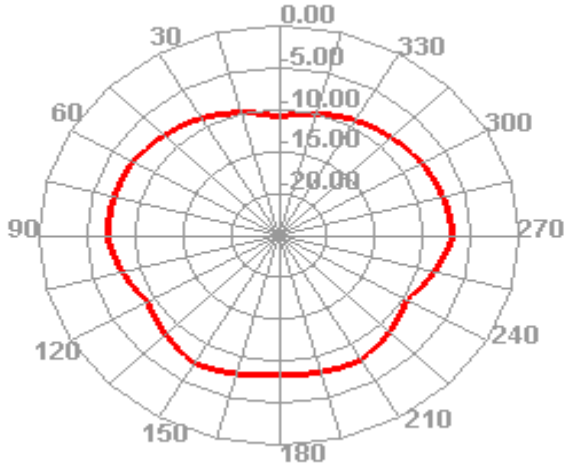


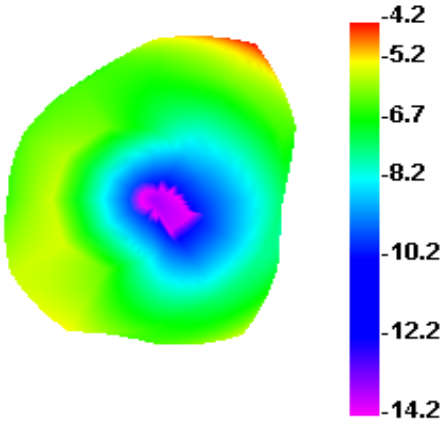

700.000MHz E1



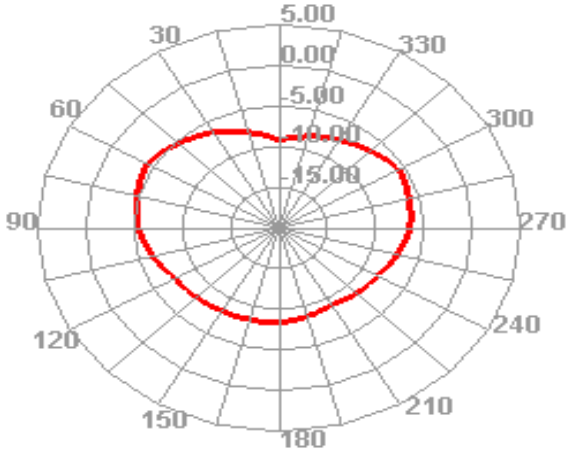

700.000MHz E2



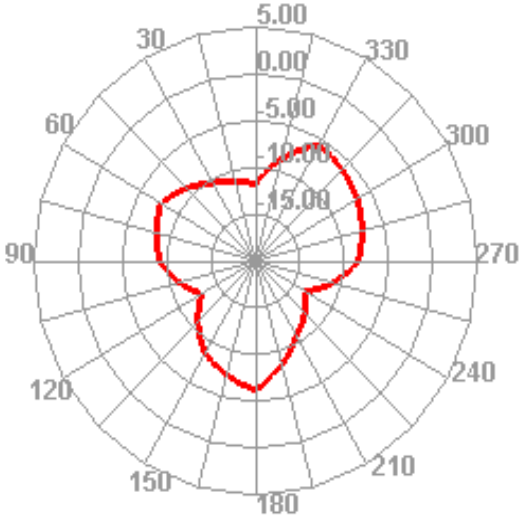
760.000MHz



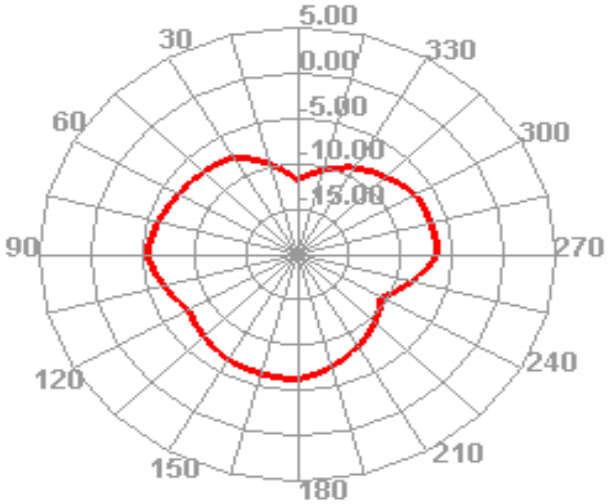

760.000MHz H



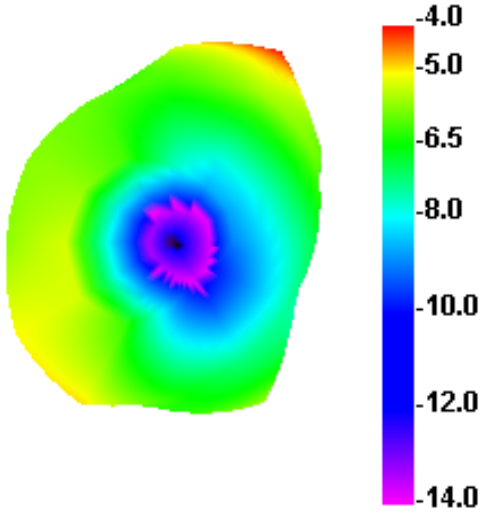

760.000MHz E1



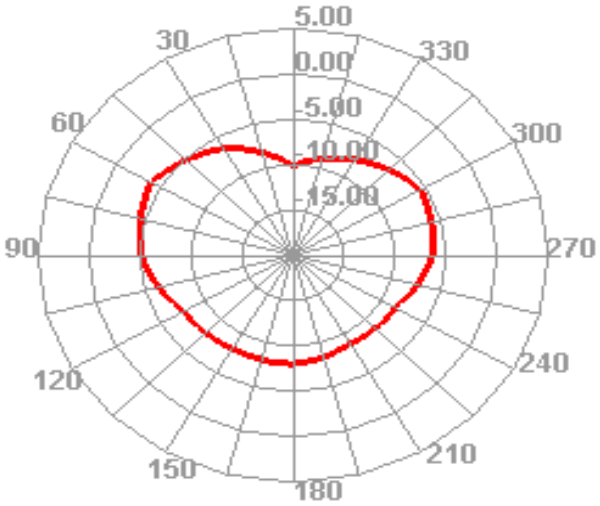

760.000MHz E2



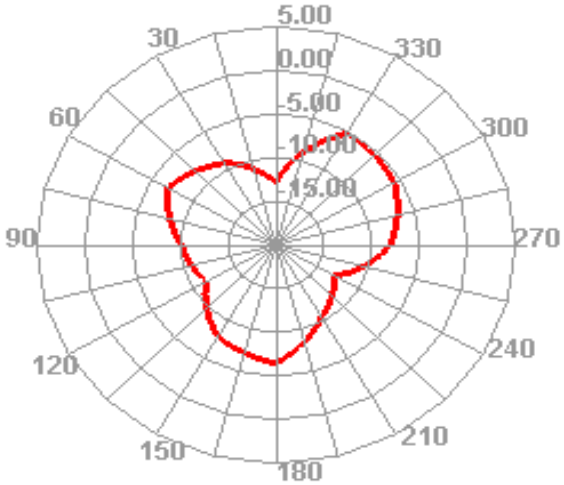
780.000MHz



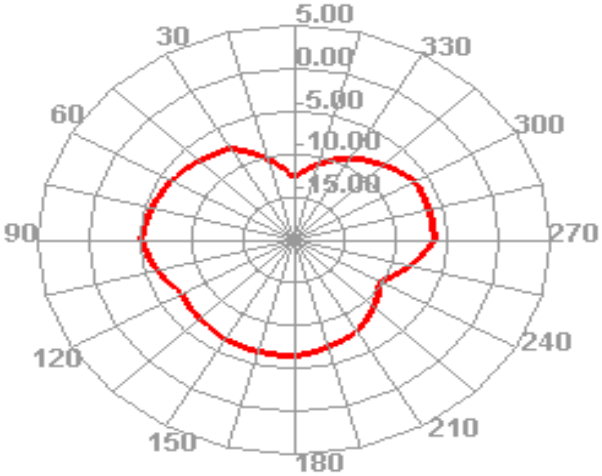

780.000MHz H



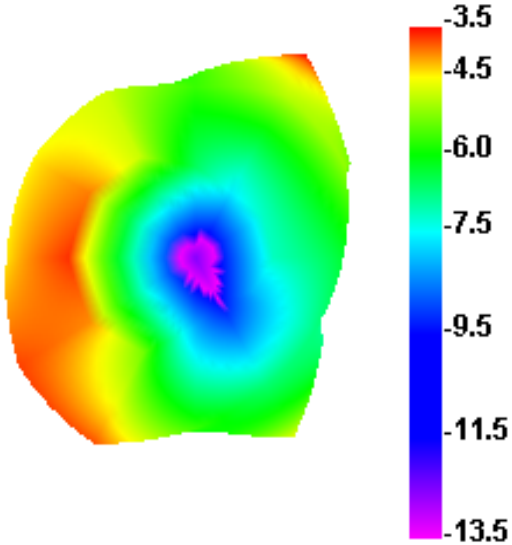

780.000MHz E1



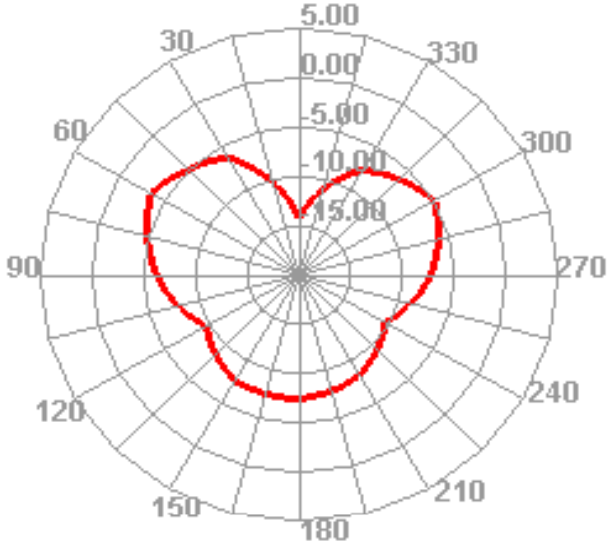

780.000MHz E2



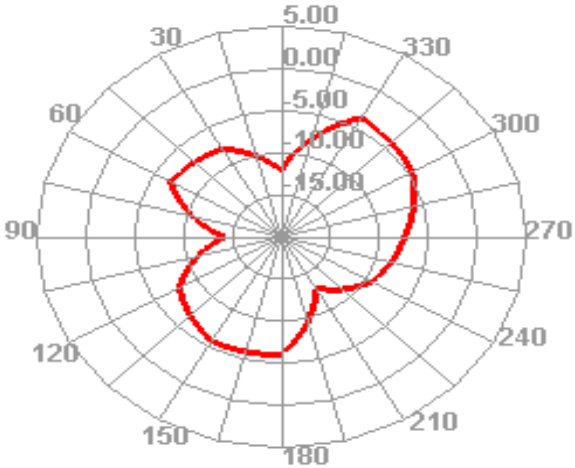
850.000MHz



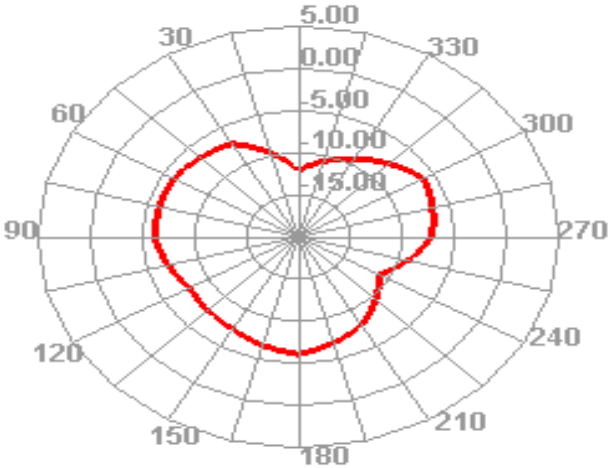

850.000MHz H



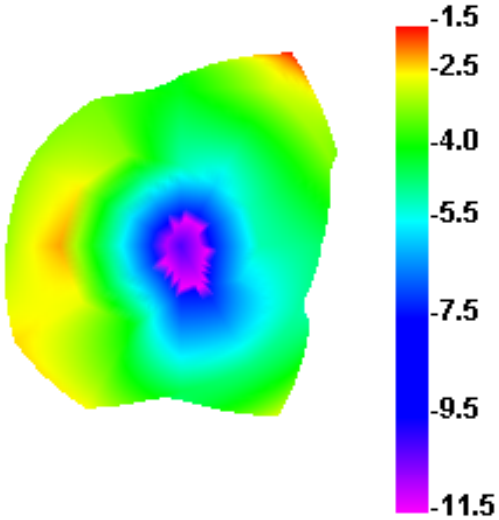

850.000MHz E1



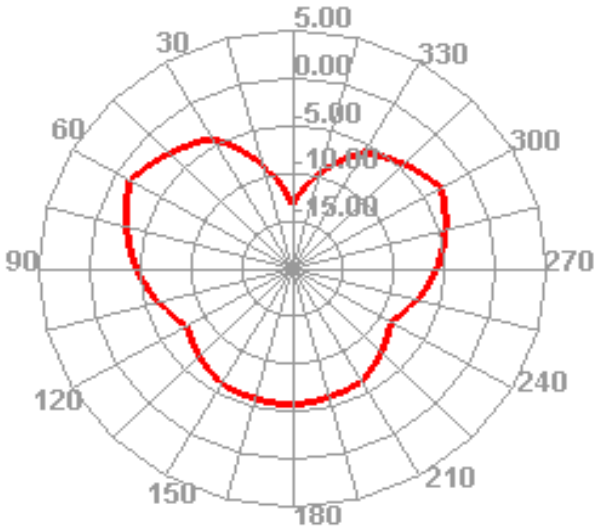

850.000MHz E2



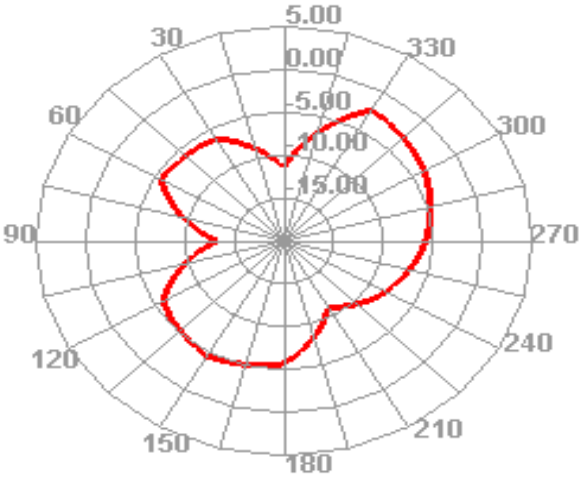
880.000MHz



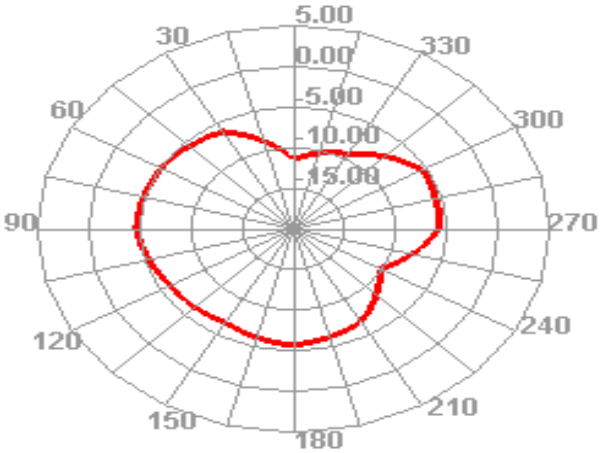

880.000MHz H



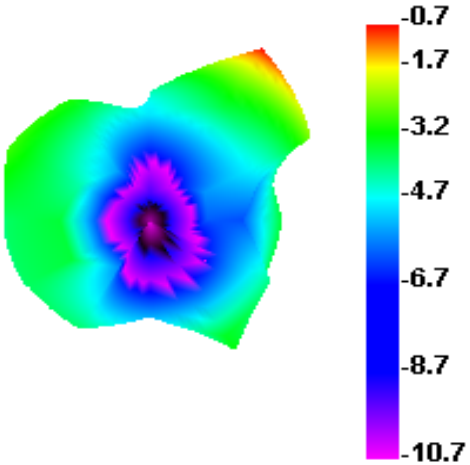

880.000MHz E1



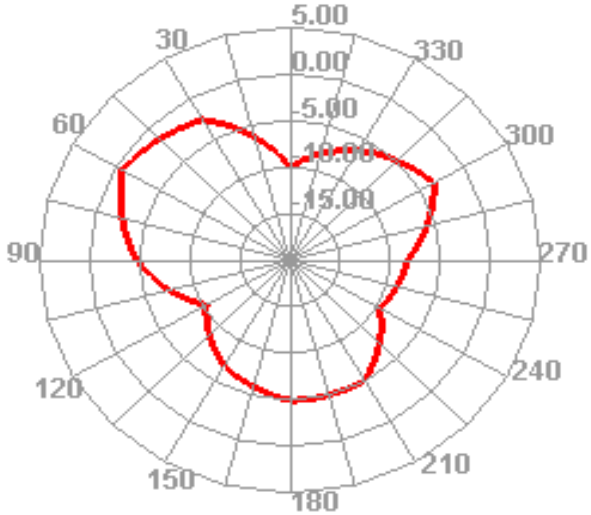

880.000MHz E2



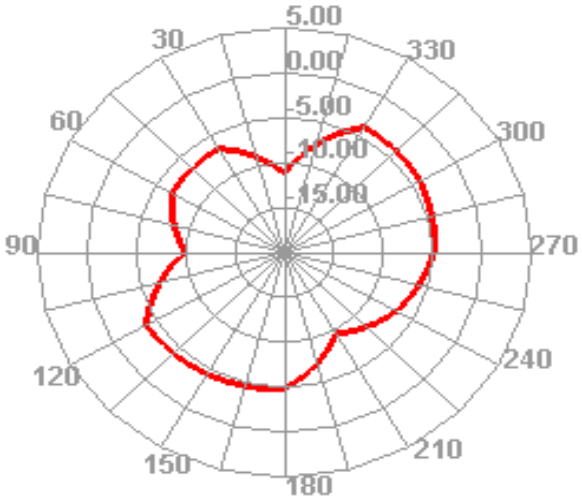
940.000MHz



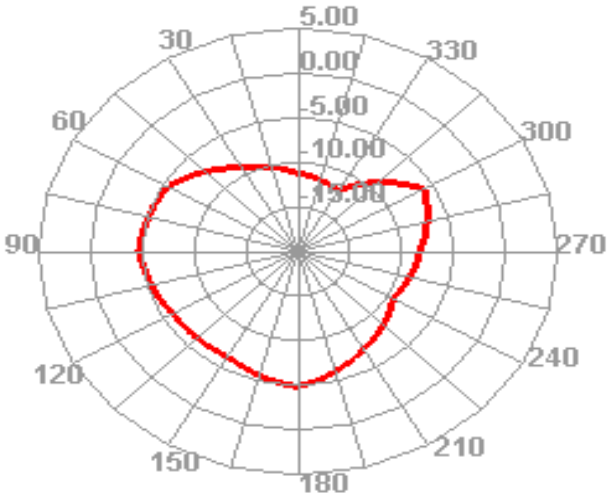

940.000MHz H



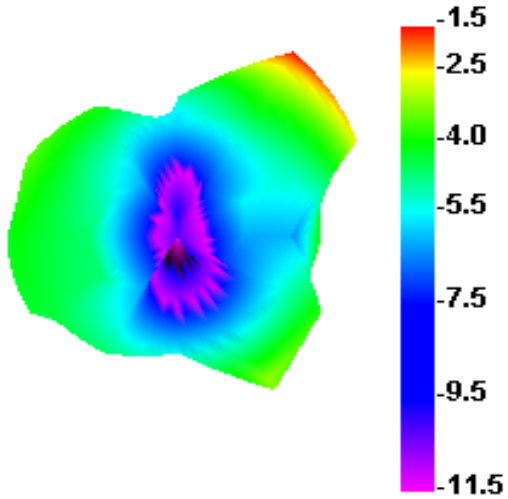

940.000MHz E1



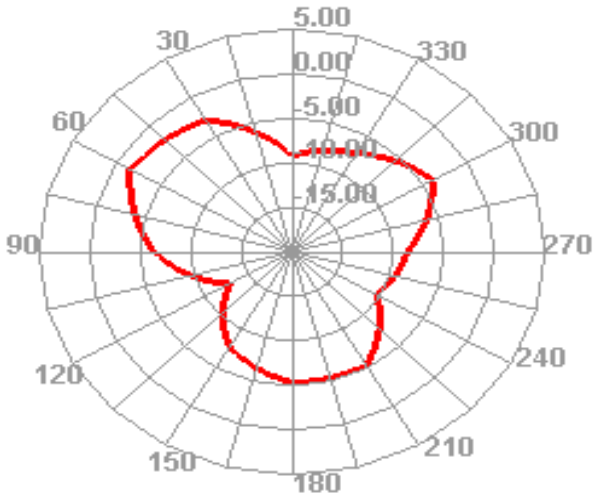

940.000MHz E2



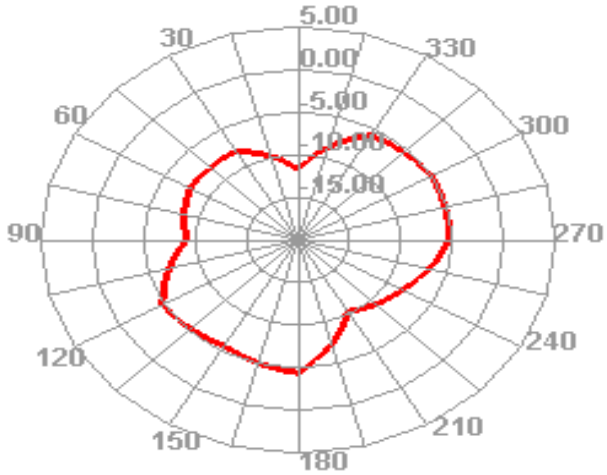
960.000MHz



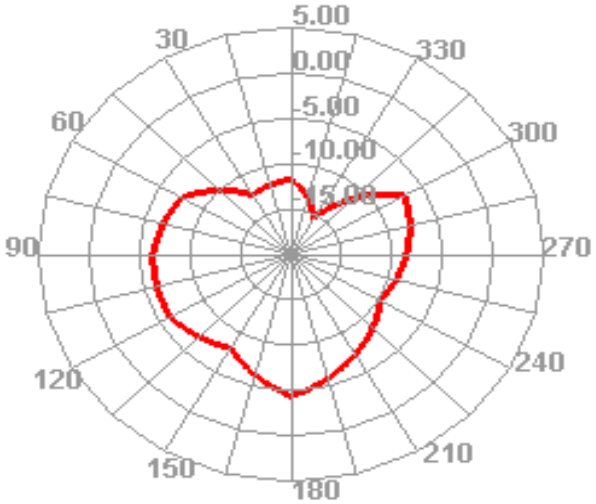

960.000MHz H




960.000MHz E1

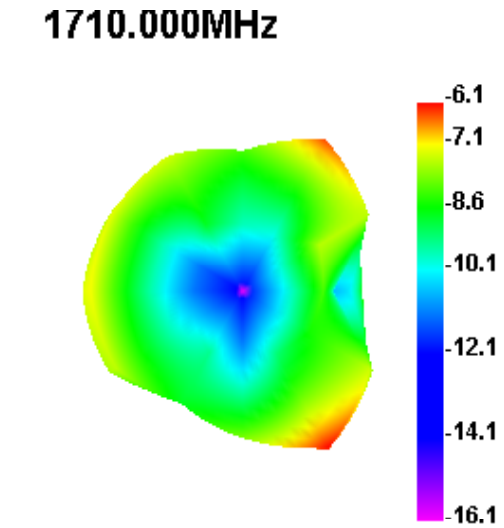


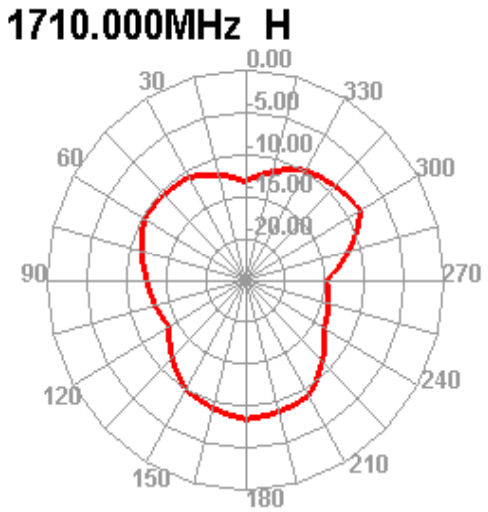

960.000MHz E2

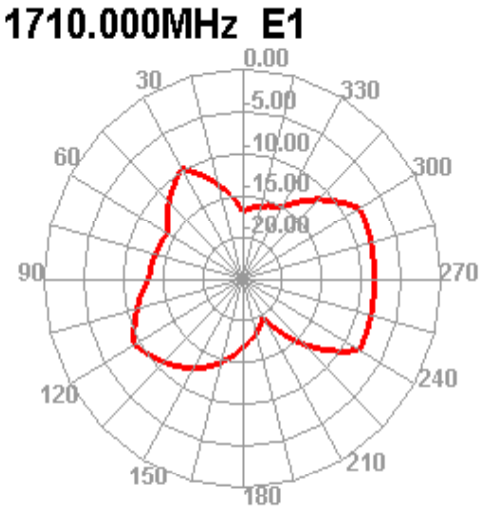


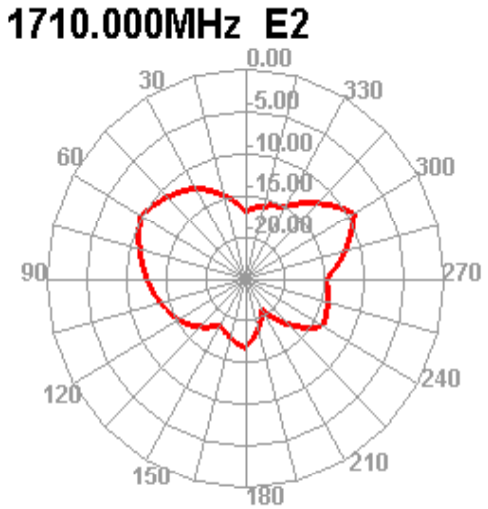
| Passive Test For 1710-2690 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) | Max (dB) | Min (dB) | Directivity (dBi) |
| 1710 | 8.45 | -10.73 | -6.15 | -8.3 | -6.15 | -23.62 | 10.73 |
| 1720 | 9.61 | -10.17 | -5.69 | -7.84 | -5.69 | -23.85 | 10.17 |
| 1730 | 10.64 | -9.73 | -5.2 | -7.35 | -5.2 | -25.15 | 9.73 |
| 1740 | 7.05 | -11.52 | -6.84 | -8.99 | -6.84 | -27.9 | 11.52 |
| 1750 | 10.51 | -9.78 | -5.02 | -7.17 | -5.02 | -25.47 | 9.78 |
| 1760 | 7.17 | -11.45 | -6.45 | -8.6 | -6.45 | -26.36 | 11.45 |
| 1770 | 6.79 | -11.68 | -6.52 | -8.67 | -6.52 | -25.96 | 11.68 |
| 1780 | 9.84 | -10.07 | -4.9 | -7.05 | -4.9 | -24.19 | 10.07 |
| 1790 | 7.67 | -11.15 | -6.07 | -8.22 | -6.07 | -23.71 | 11.15 |
| 1800 | 9.14 | -10.39 | -5.51 | -7.66 | -5.51 | -22.62 | 10.39 |
| 1810 | 14.59 | -8.36 | -3.26 | -5.41 | -3.26 | -21.27 | 8.36 |
| 1820 | 15.85 | -8 | -2.74 | -4.89 | -2.74 | -21.62 | 8 |
| 1830 | 16.82 | -7.74 | -2.42 | -4.57 | -2.42 | -21.02 | 7.74 |
| 1840 | 23.14 | -6.36 | -0.94 | -3.09 | -0.94 | -19.04 | 6.36 |
| 1850 | 21.07 | -6.76 | -1.35 | -3.5 | -1.35 | -18.33 | 6.76 |
| 1860 | 27.37 | -5.63 | -0.07 | -2.22 | -0.07 | -16.51 | 5.63 |
| 1870 | 34.28 | -4.65 | 1.01 | -1.14 | 1.01 | -14.46 | 4.65 |
| 1880 | 32.06 | -4.94 | 0.79 | -1.36 | 0.79 | -15.25 | 4.94 |
| 1890 | 33.85 | -4.7 | 1.13 | -1.02 | 1.13 | -15.05 | 4.7 |
| 1900 | 39.01 | -4.09 | 1.81 | -0.34 | 1.81 | -14.65 | 4.09 |
| 1910 | 36.54 | -4.37 | 1.54 | -0.61 | 1.54 | -15.21 | 4.37 |
| 1920 | 41.24 | -3.85 | 2.1 | -0.05 | 2.1 | -15.41 | 3.85 |
| 1930 | 42.06 | -3.76 | 2.13 | -0.02 | 2.13 | -15.69 | 3.76 |
| 1940 | 42.09 | -3.76 | 1.92 | -0.23 | 1.92 | -15.22 | 3.76 |
| 1950 | 45.32 | -3.44 | 1.98 | -0.17 | 1.98 | -15.11 | 3.44 |
| 1960 | 39.32 | -4.05 | 1.07 | -1.08 | 1.07 | -15.42 | 4.05 |
| 1970 | 38.41 | -4.16 | 0.61 | -1.54 | 0.61 | -15.43 | 4.16 |
| 1980 | 42.52 | -3.71 | 0.69 | -1.46 | 0.69 | -14.33 | 3.71 |
| 1990 | 42.55 | -3.71 | 0.36 | -1.79 | 0.36 | -14.3 | 3.71 |
| 2000 | 37.54 | -4.26 | -0.33 | -2.48 | -0.33 | -14.53 | 4.26 |
| 2010 | 36.9 | -4.33 | -0.09 | -2.24 | -0.09 | -15.07 | 4.33 |
| 2020 | 40.76 | -3.9 | 0.59 | -1.56 | 0.59 | -15.87 | 3.9 |
| 2030 | 44.62 | -3.51 | 1.24 | -0.91 | 1.24 | -15.99 | 3.51 |
| 2040 | 42.89 | -3.68 | 1.15 | -1 | 1.15 | -16.98 | 3.68 |
| 2050 | 40.81 | -3.89 | 1.04 | -1.11 | 1.04 | -17.47 | 3.89 |
| 2060 | 43.72 | -3.59 | 1.36 | -0.79 | 1.36 | -16.31 | 3.59 |
| 2070 | 48.02 | -3.19 | 1.78 | -0.37 | 1.78 | -14.92 | 3.19 |
| 2080 | 45.6 | -3.41 | 1.6 | -0.55 | 1.6 | -14.66 | 3.41 |
| 2090 | 42.36 | -3.73 | 1.24 | -0.91 | 1.24 | -14.11 | 3.73 |
| 2100 | 43.78 | -3.59 | 1.32 | -0.83 | 1.32 | -12.99 | 3.59 |
| 2110 | 49.75 | -3.03 | 1.69 | -0.46 | 1.69 | -11.84 | 3.03 |
| 2120 | 44.46 | -3.52 | 1.09 | -1.06 | 1.09 | -12.25 | 3.52 |
| 2130 | 43.86 | -3.58 | 0.84 | -1.31 | 0.84 | -12.46 | 3.58 |
| 2140 | 46.48 | -3.33 | 0.87 | -1.28 | 0.87 | -11.76 | 3.33 |
| 2150 | 43.02 | -3.66 | 0.54 | -1.61 | 0.54 | -11.54 | 3.66 |
| 2160 | 47.87 | -3.2 | 1.26 | -0.89 | 1.26 | -11.27 | 3.2 |
| 2170 | 42.19 | -3.75 | 0.95 | -1.2 | 0.95 | -12.23 | 3.75 |
| 2500 | 17.01 | -7.69 | -0.92 | -3.07 | -0.92 | -22.61 | 7.69 |
| 2510 | 16.55 | -7.81 | -1.02 | -3.17 | -1.02 | -23.4 | 7.81 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2540 | 17.87 | -7.48 | -0.61 | -2.76 | -0.61 | -21.54 | 7.48 |
| 2550 | 18.11 | -7.42 | -0.6 | -2.75 | -0.6 | -22.14 | 7.42 |
| 2560 | 16.16 | -7.92 | -1 | -3.15 | -1 | -21.28 | 7.92 |
| 2570 | 17.81 | -7.49 | -0.56 | -2.71 | -0.56 | -23.72 | 7.49 |
| 2580 | 18.9 | -7.24 | -0.24 | -2.39 | -0.24 | -23.64 | 7.24 |
| 2590 | 16.93 | -7.71 | -0.65 | -2.8 | -0.65 | -23.93 | 7.71 |
| 2600 | 17.4 | -7.59 | -0.5 | -2.65 | -0.5 | -22.12 | 7.59 |
| 2610 | 16.56 | -7.81 | -0.65 | -2.8 | -0.65 | -20.39 | 7.81 |
| 2620 | 15.56 | -8.08 | -0.92 | -3.07 | -0.92 | -19.18 | 8.08 |
| 2630 | 18.56 | -7.31 | -0.08 | -2.23 | -0.08 | -18.65 | 7.31 |
| 2640 | 18.6 | -7.3 | -0.15 | -2.3 | -0.15 | -18.25 | 7.3 |
| 2650 | 16.34 | -7.87 | -0.55 | -2.7 | -0.55 | -18.55 | 7.87 |
| 2660 | 19.25 | -7.16 | 0.26 | -1.89 | 0.26 | -17.61 | 7.16 |
| 2670 | 19.48 | -7.1 | 0.3 | -1.85 | 0.3 | -18.45 | 7.1 |
| 2680 | 17.06 | -7.68 | -0.2 | -2.35 | -0.2 | -18.91 | 7.68 |
| 2690 | 20.73 | -6.83 | 0.71 | -1.44 | 0.71 | -18.75 | 6.83 |



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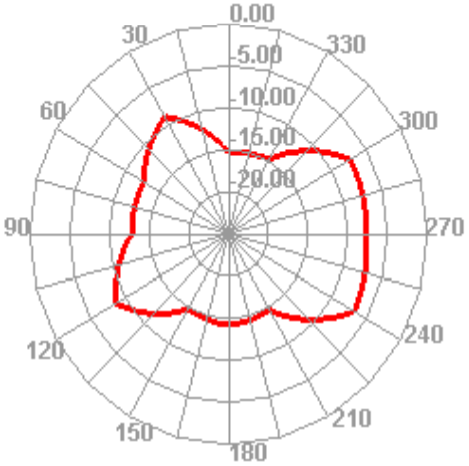


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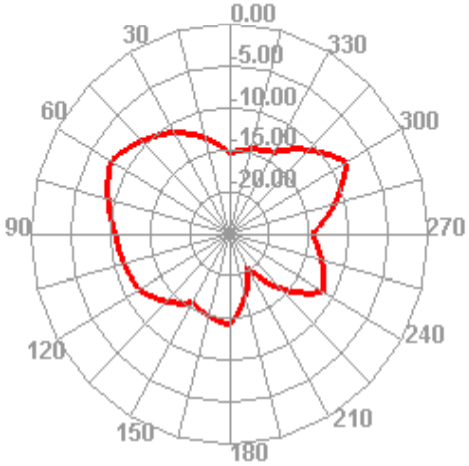
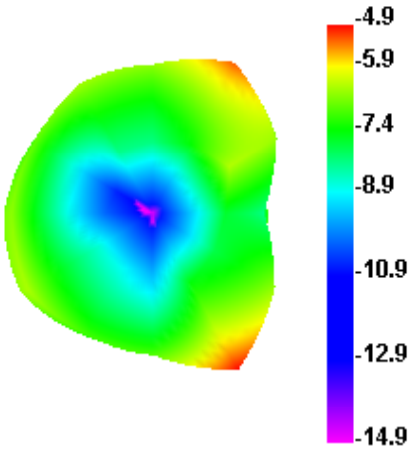



1780.000MHz

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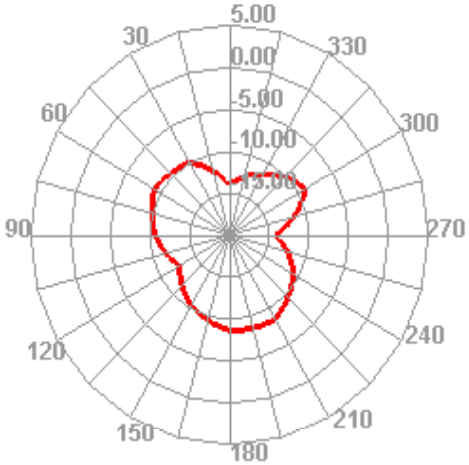


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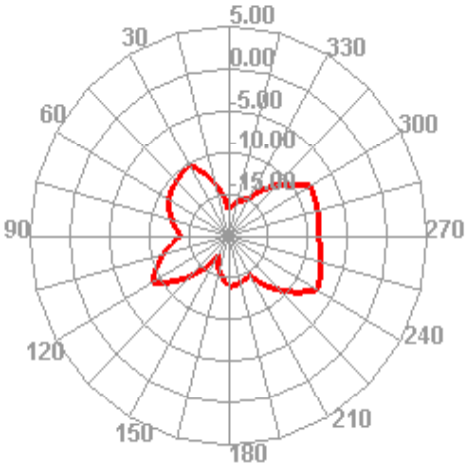


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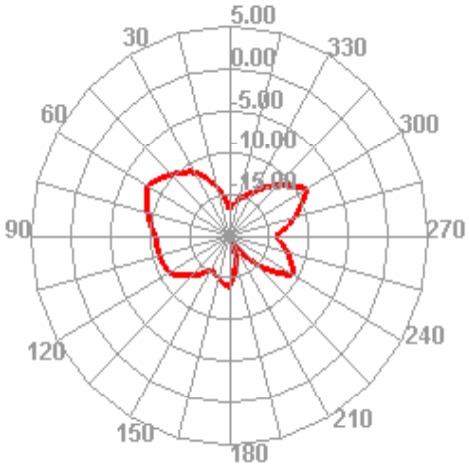

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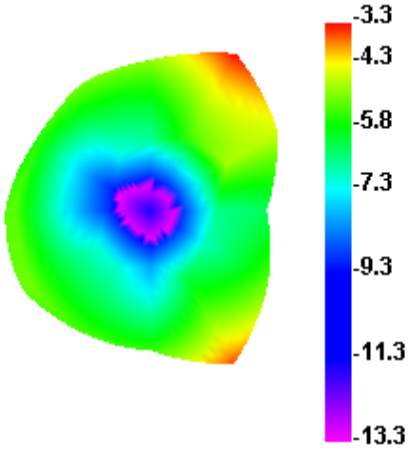


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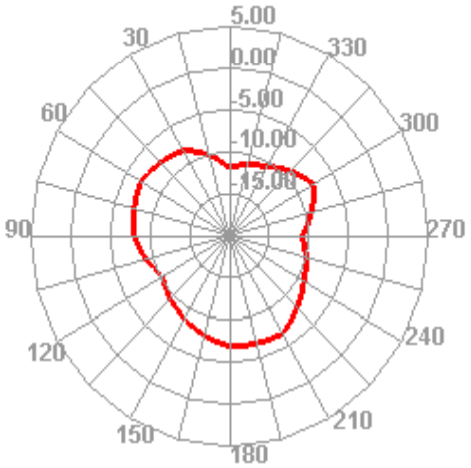


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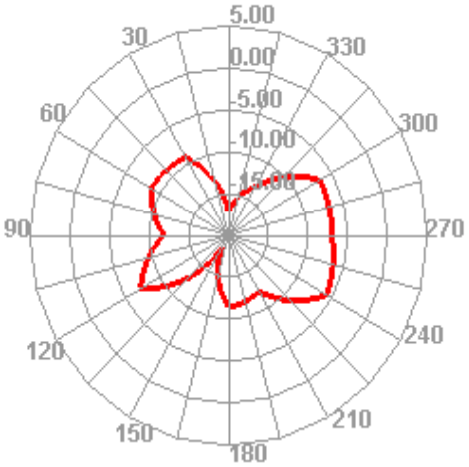


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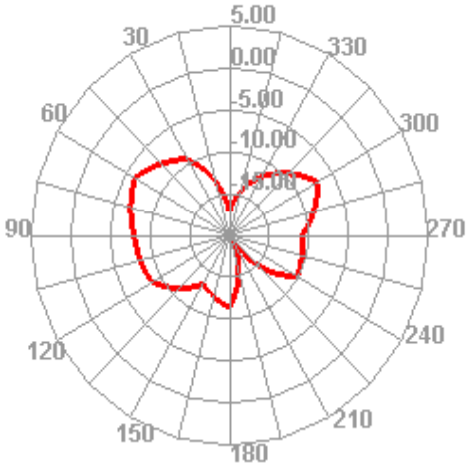


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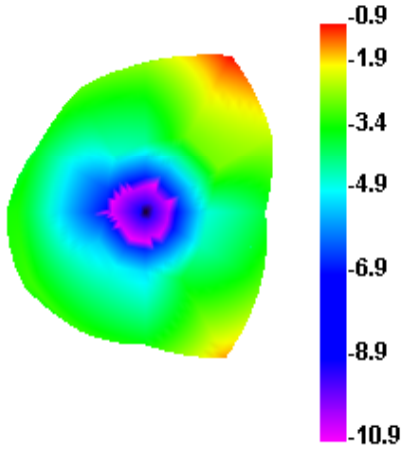


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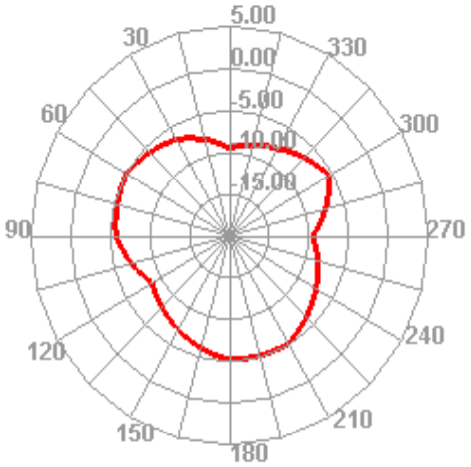

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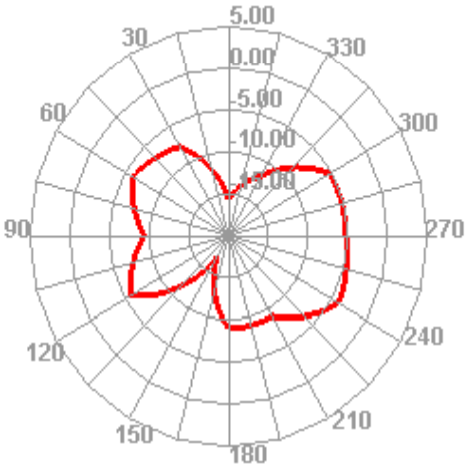


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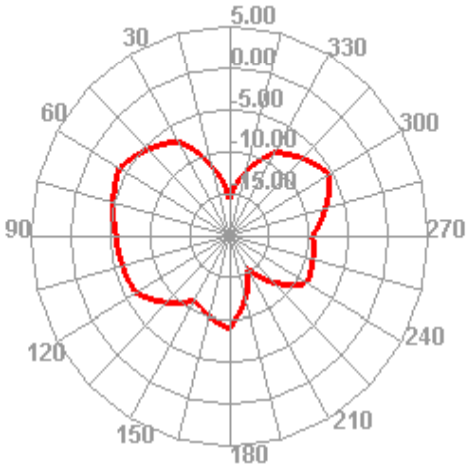


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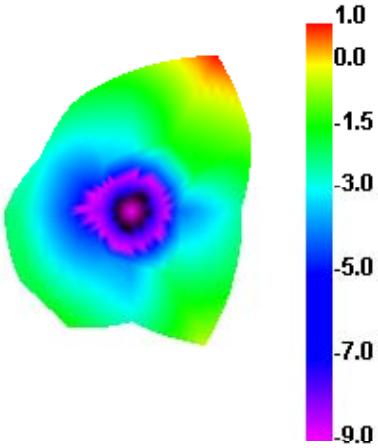


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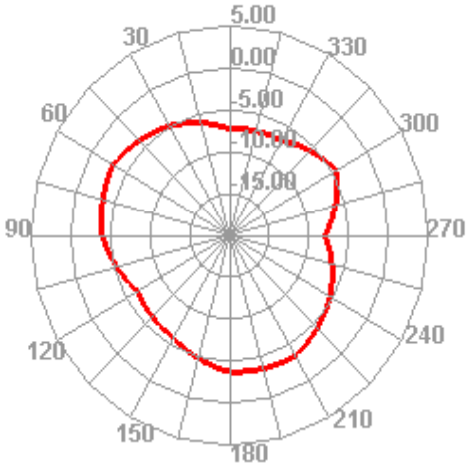


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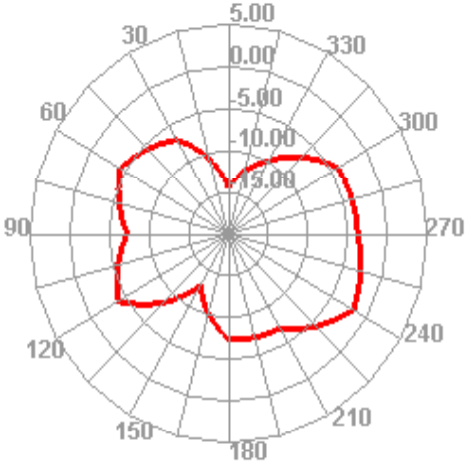


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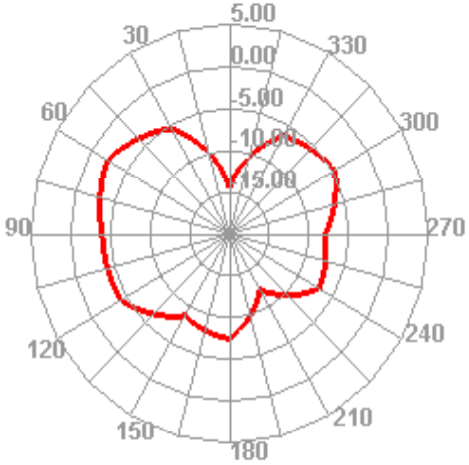

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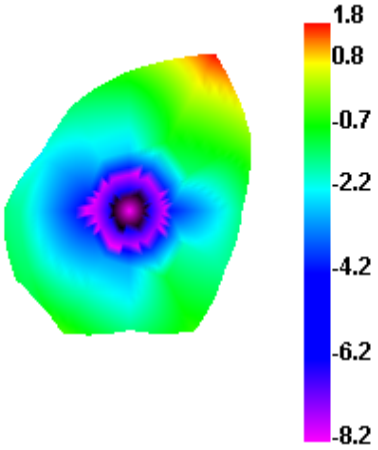


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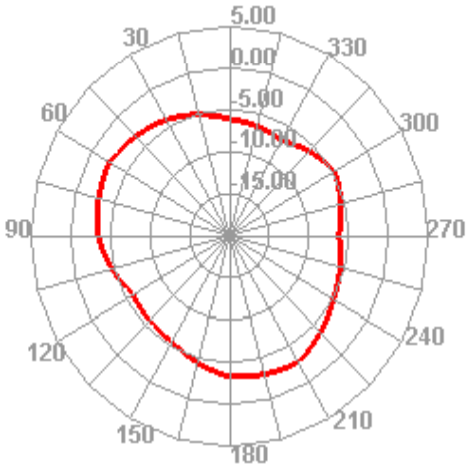


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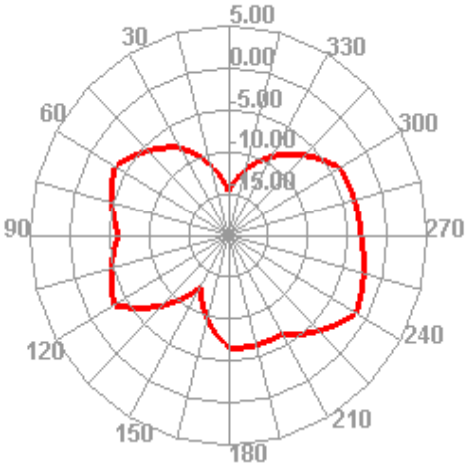


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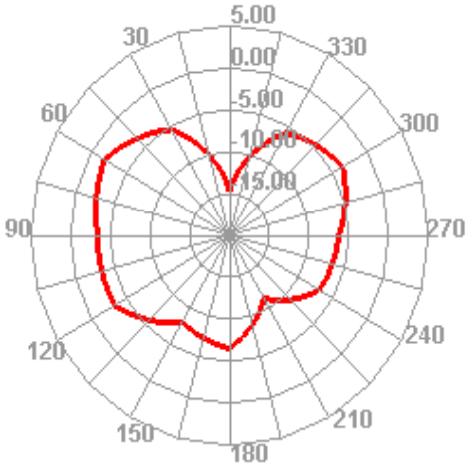


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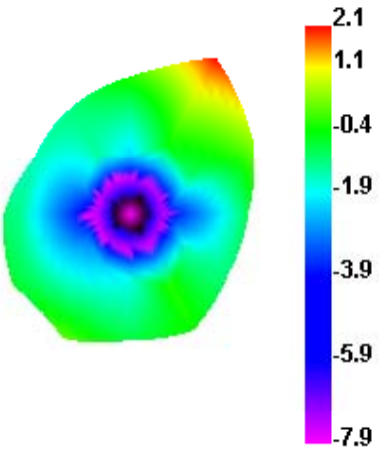


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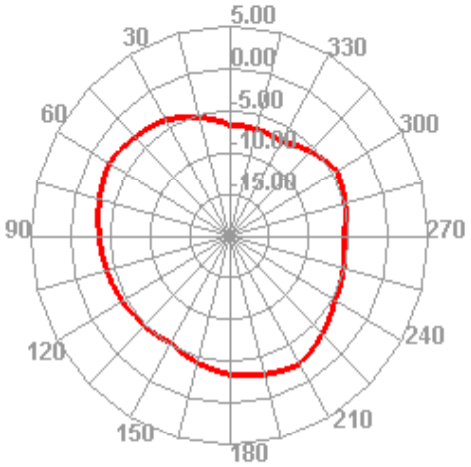

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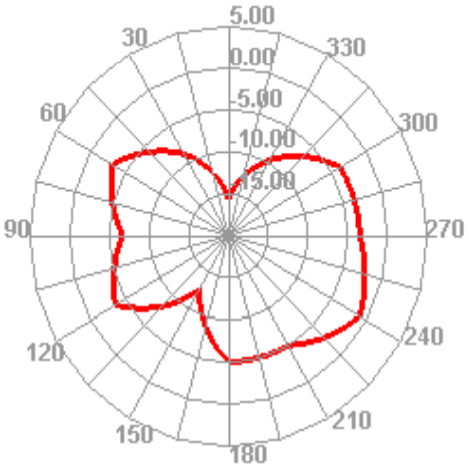


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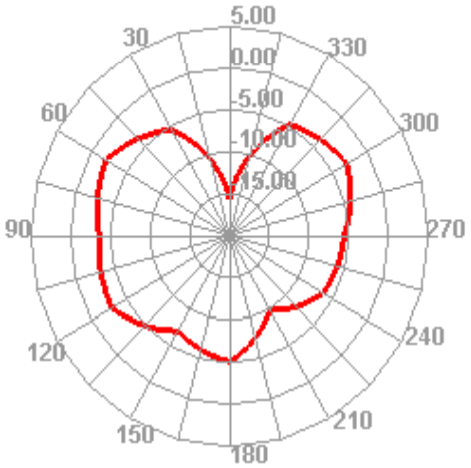
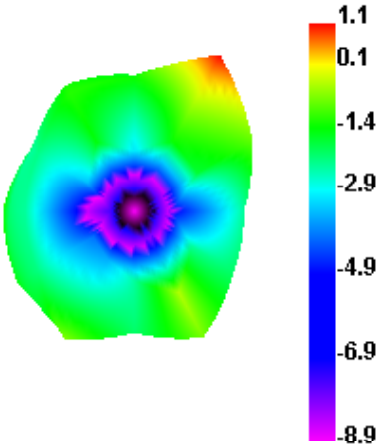



1960.000MHz

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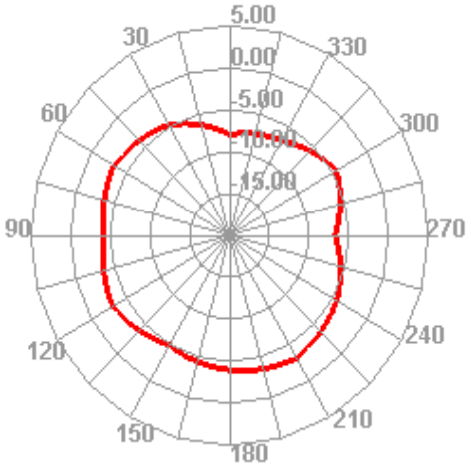


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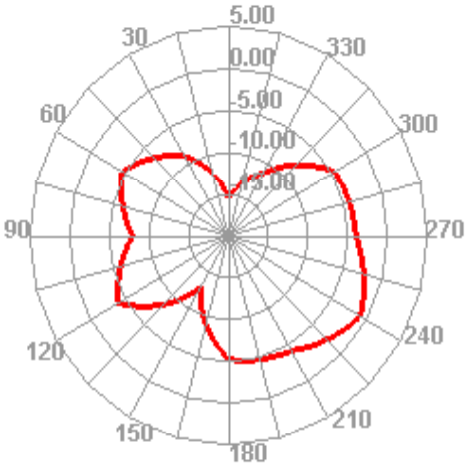


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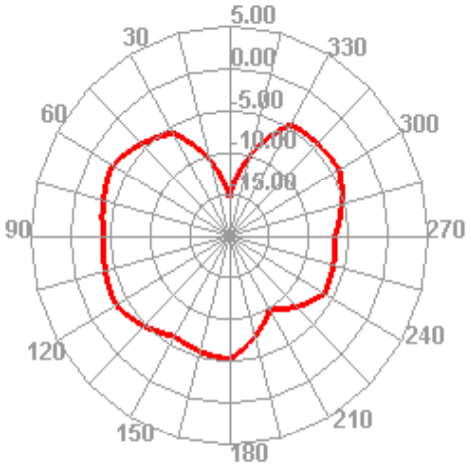
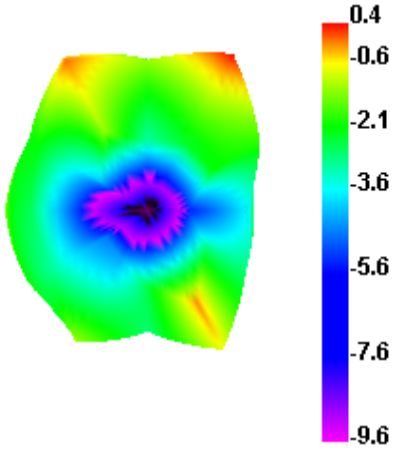


## 1990.000MHz

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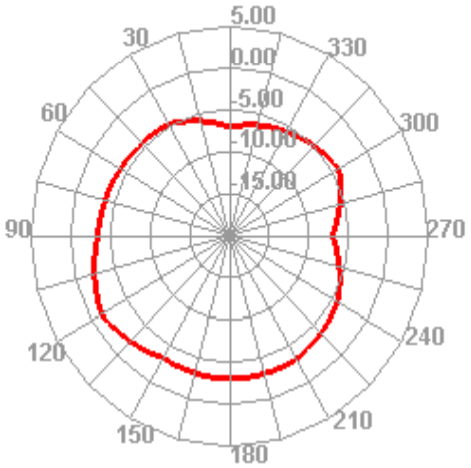


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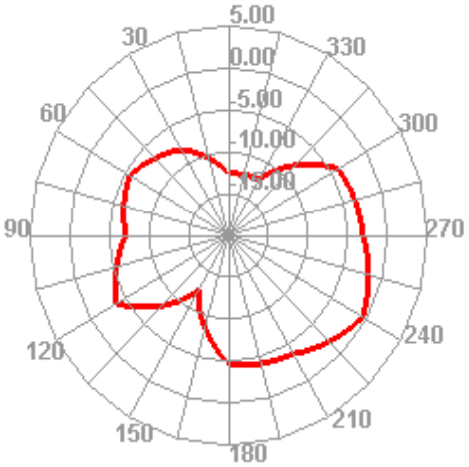


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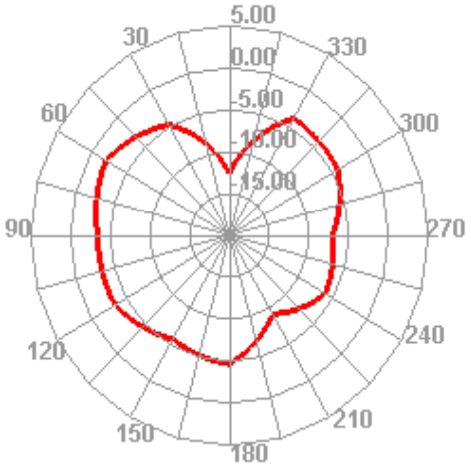


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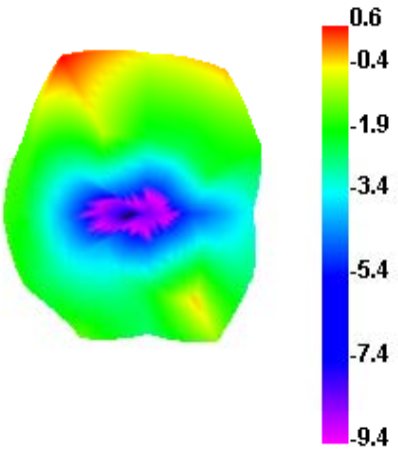


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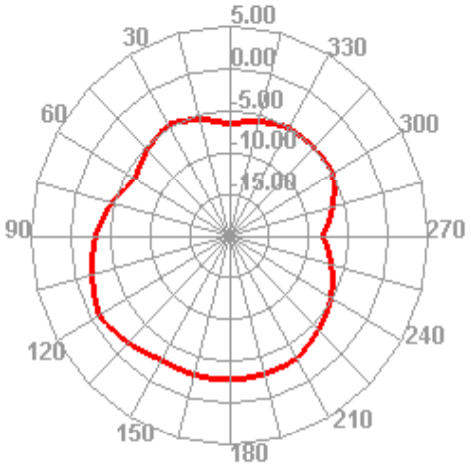

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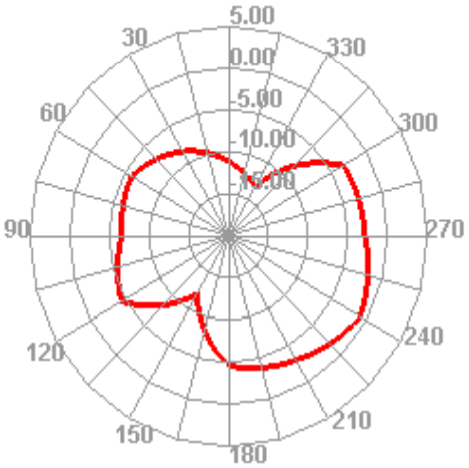


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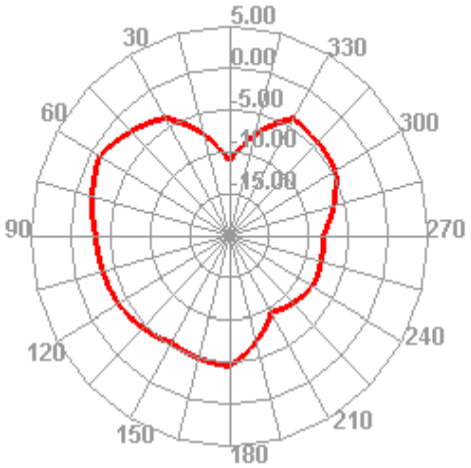


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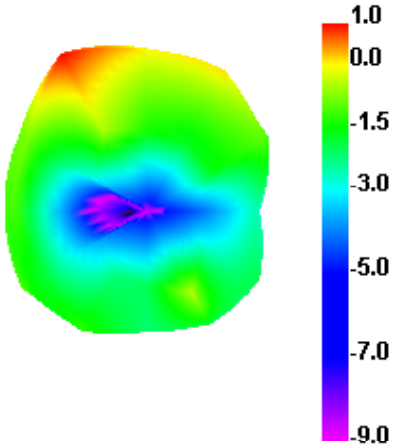


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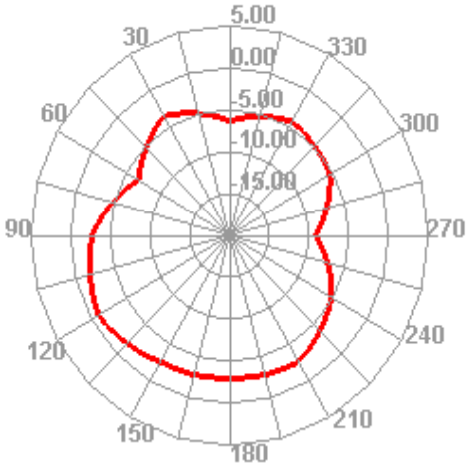


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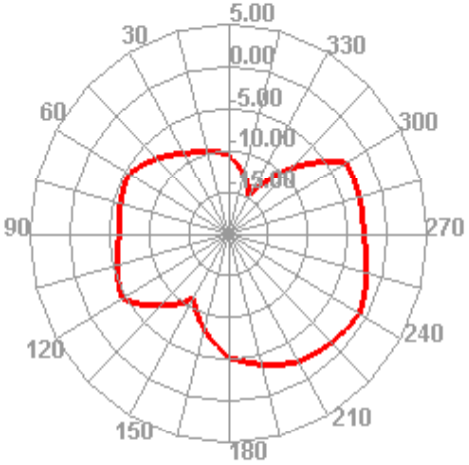


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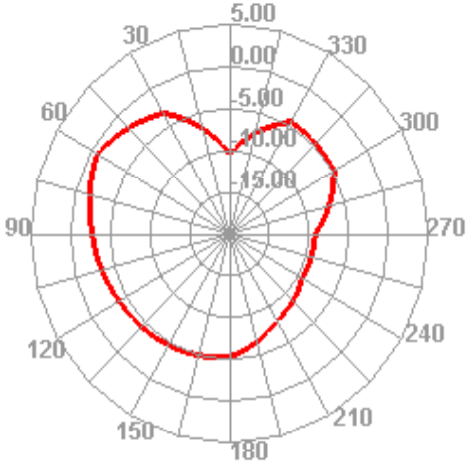

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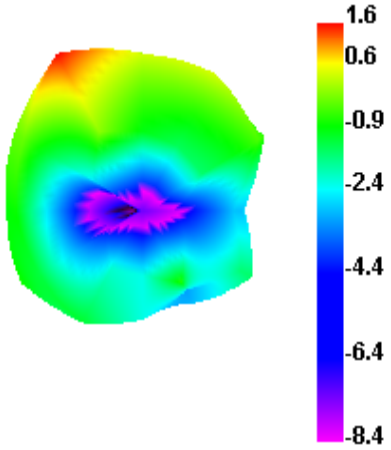


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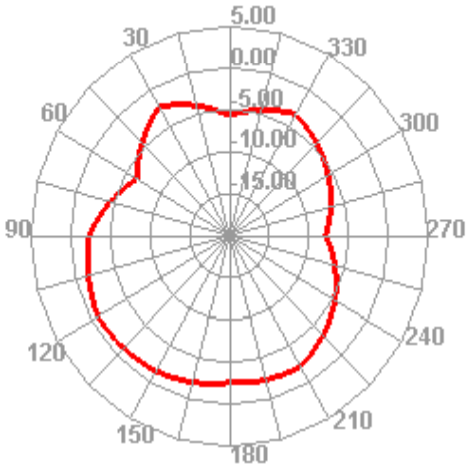


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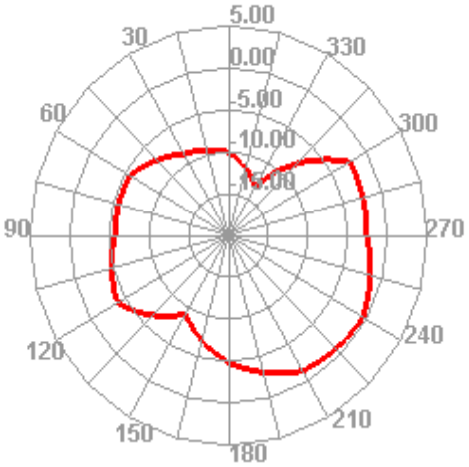
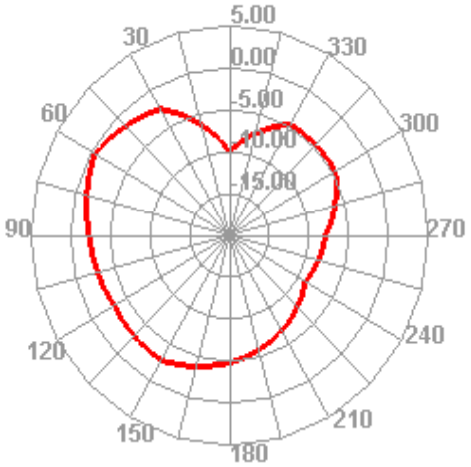
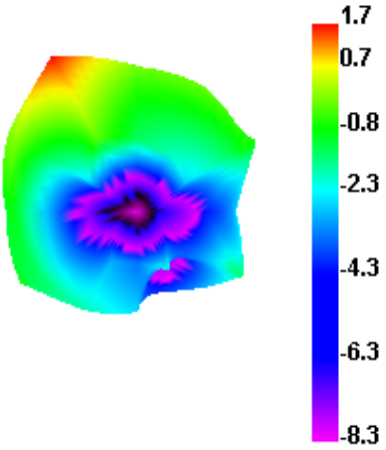


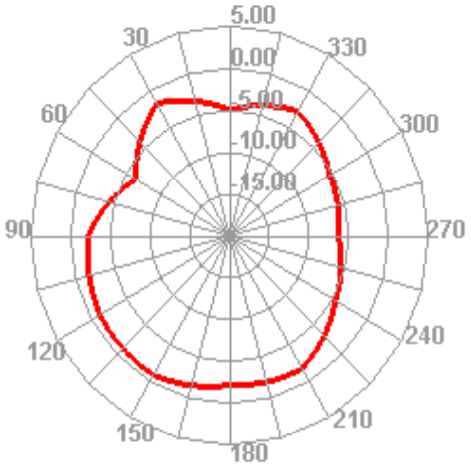

## 2080.000MHz E2



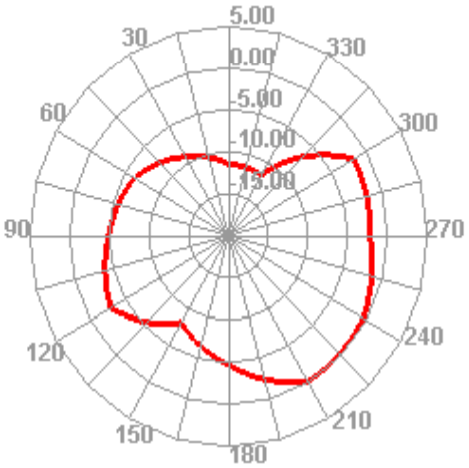

## 2110.000MHz



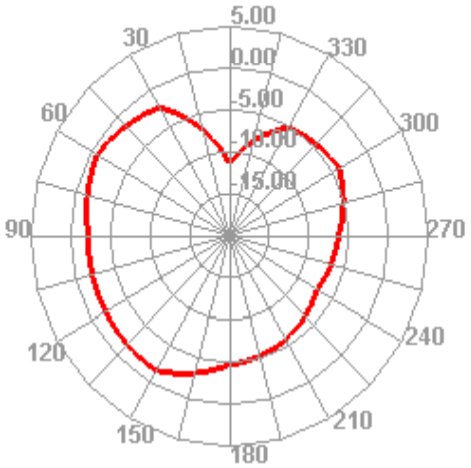

## 2110.000MHz H



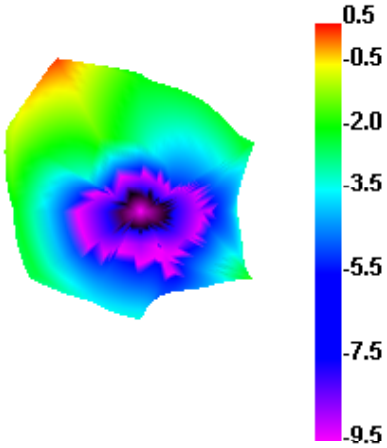
## 2110.000MHz E1




## 2110.000MHz E2




## 2150.000MHz

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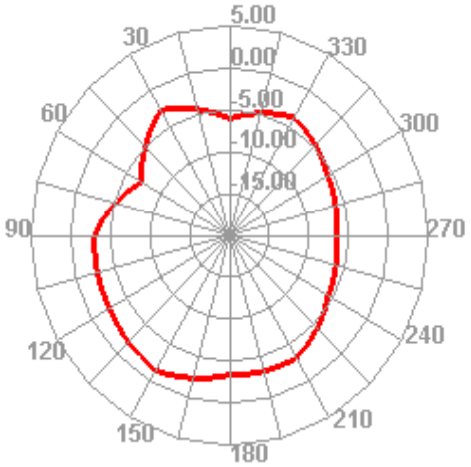


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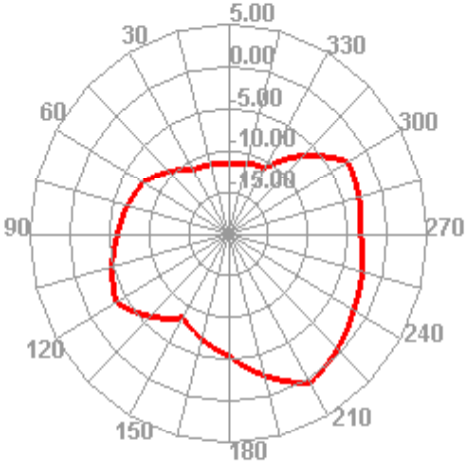


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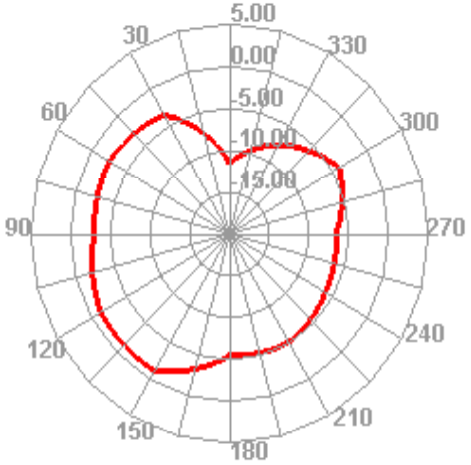
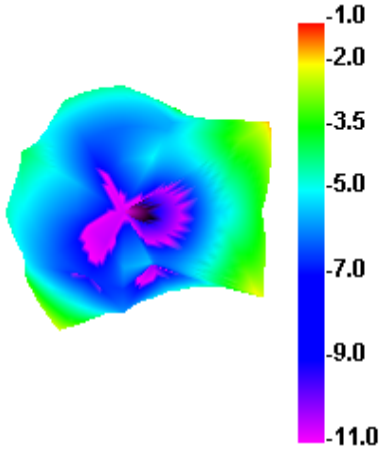
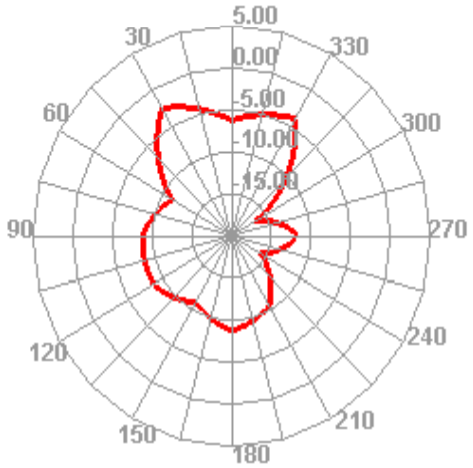


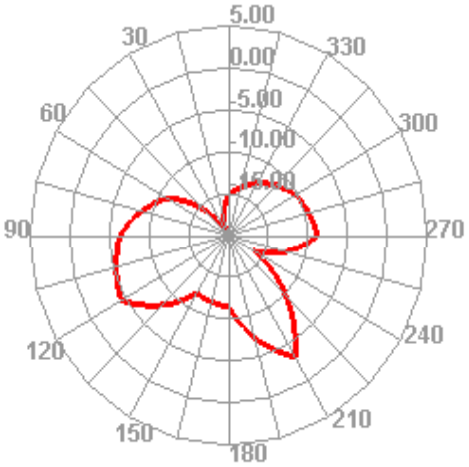
## 2510.000MHz



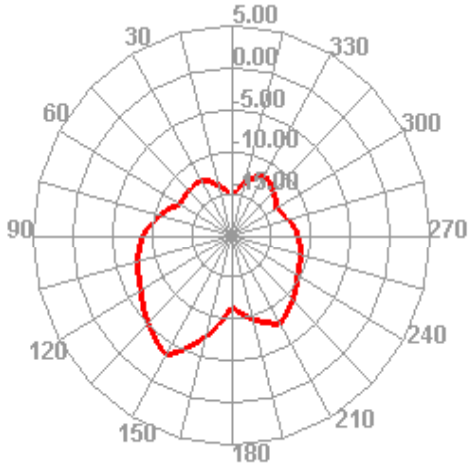

## 2510.000MHz H



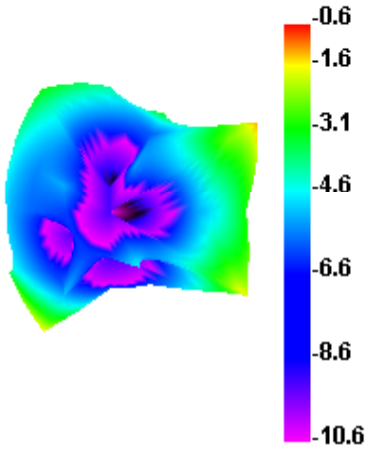

## 2510.000MHz E1



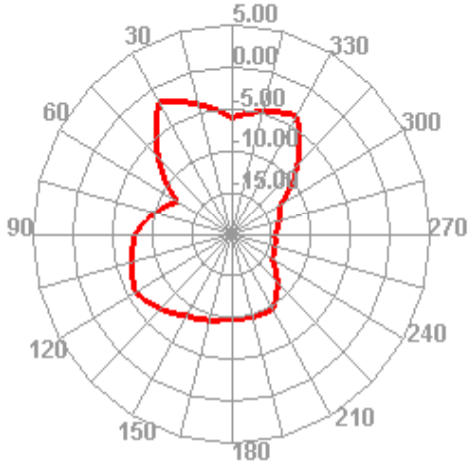

## 2510.000MHz E2



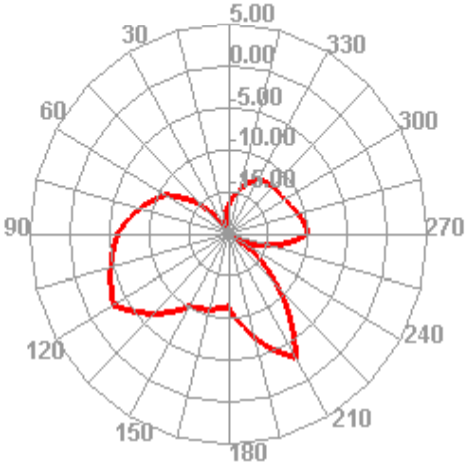

## 2550.000MHz




## 2550.000MHz H



## 2550.000MHz E1

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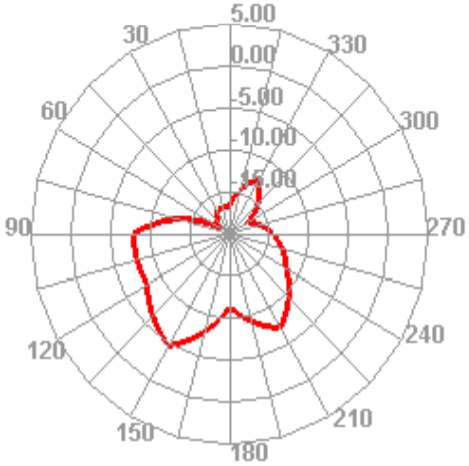
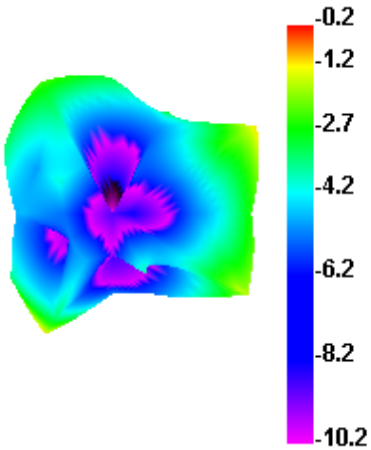



## 2580.000MHz

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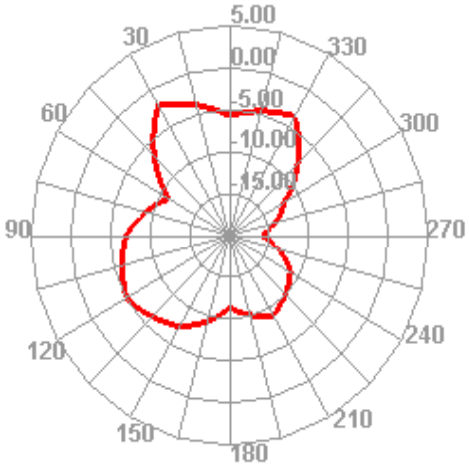


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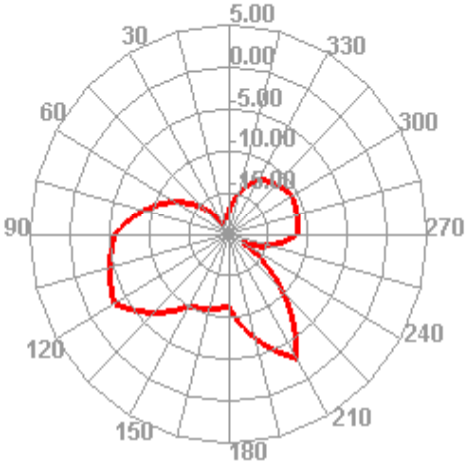


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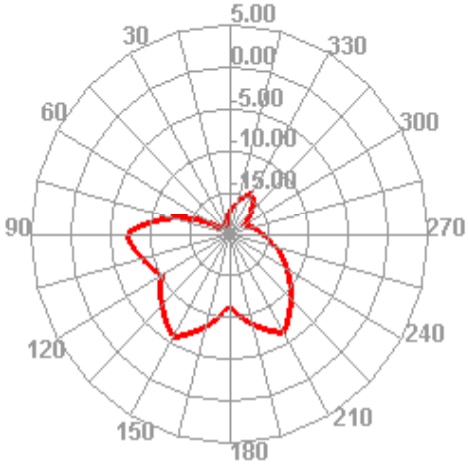
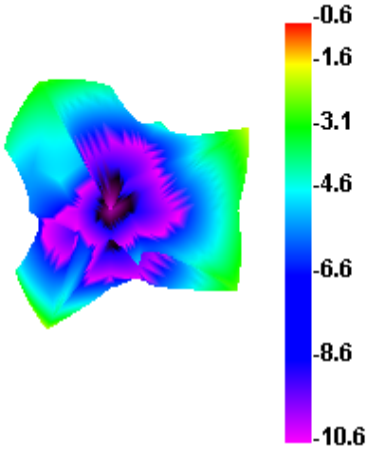
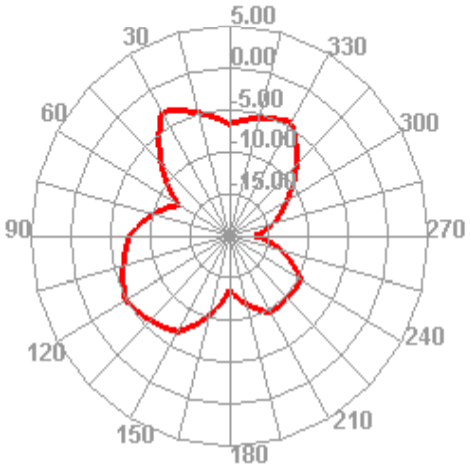


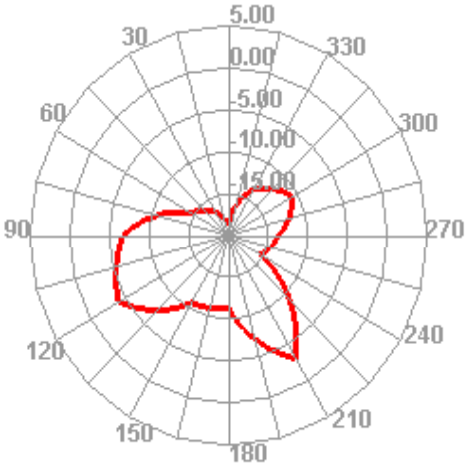
## 2610.000MHz




## 2610.000MHz H




## 2610.000MHz E1

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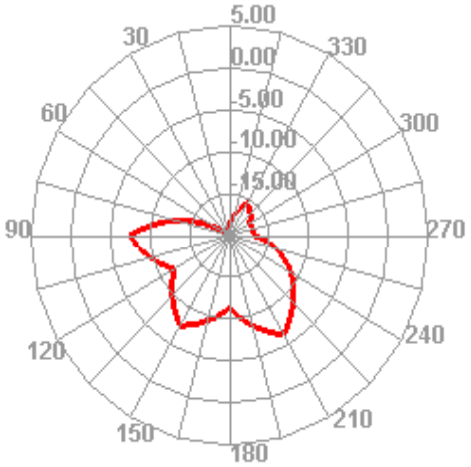
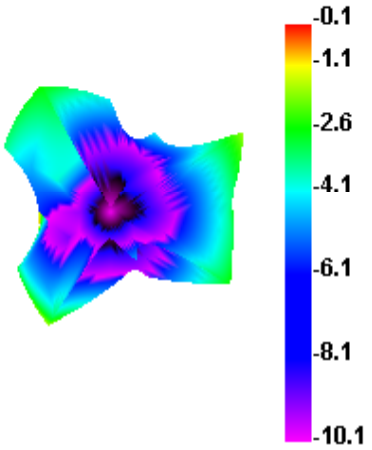
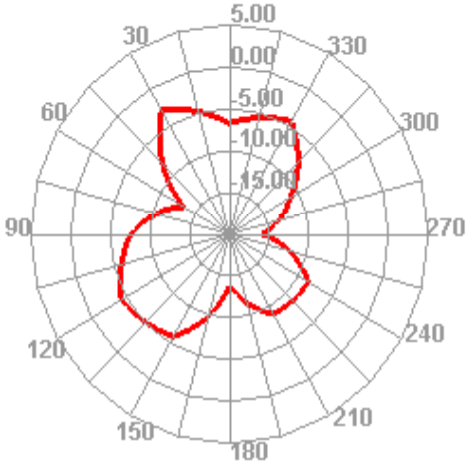



## 2640.000MHz




## 2640.000MHz H



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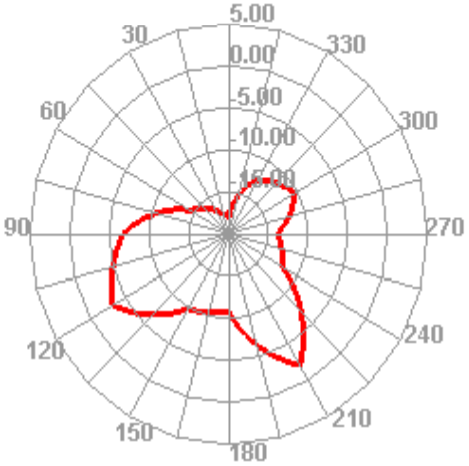


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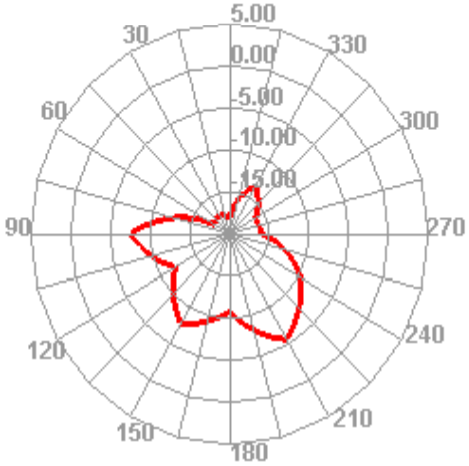
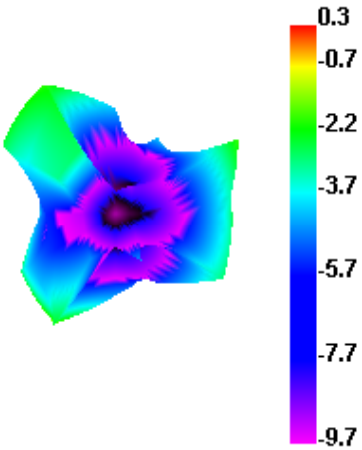



## 2670.000MHz

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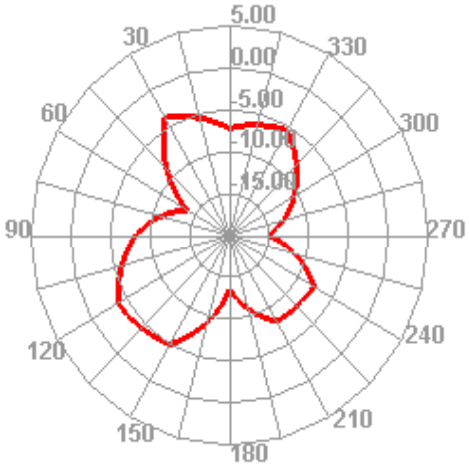
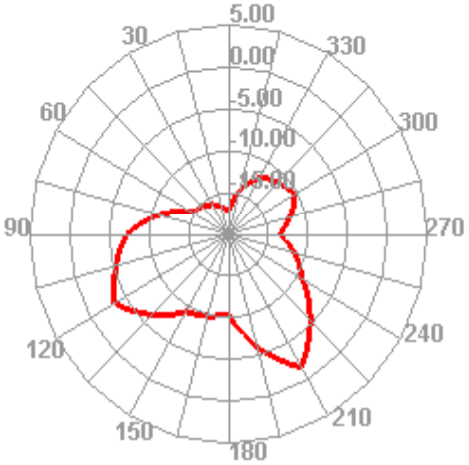



## 2670.000MHz E1

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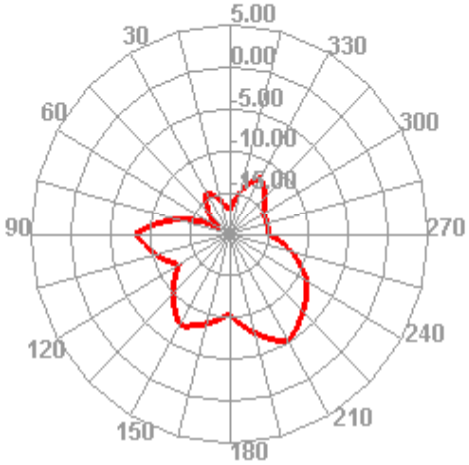
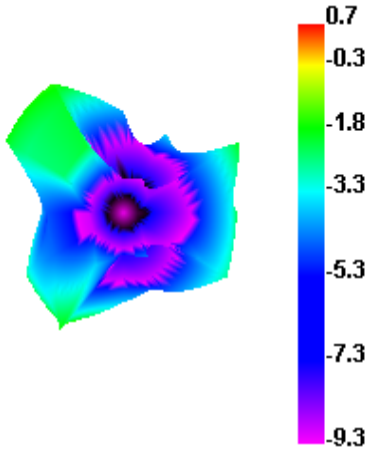
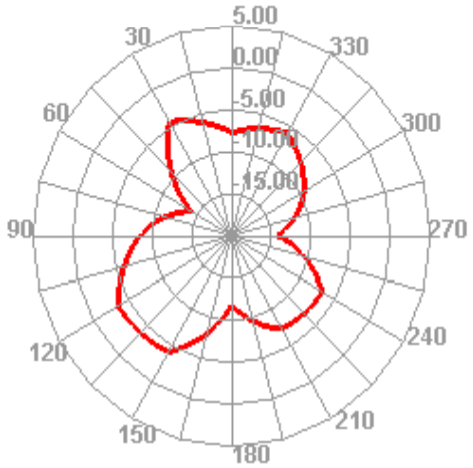


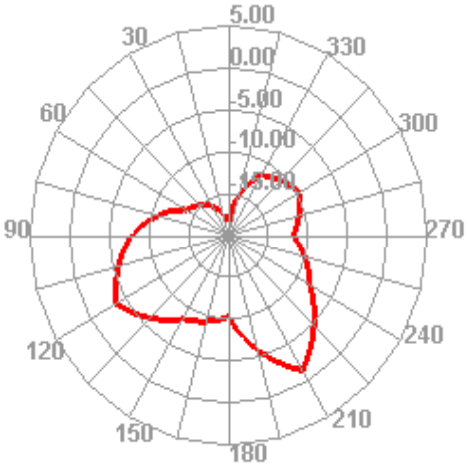
2690.000MHz

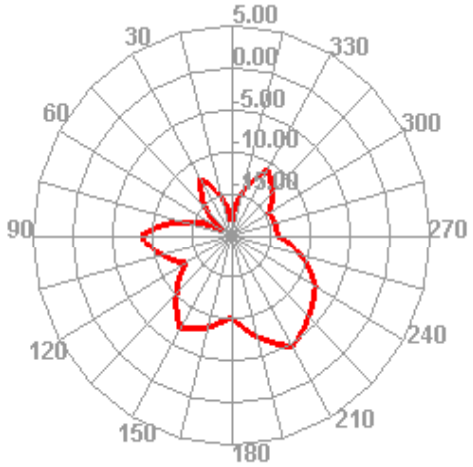



2690.000MHz H




2690.000MHz E1




2690.000MHz E2