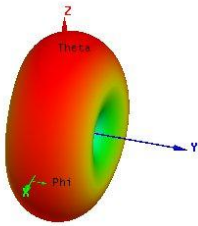
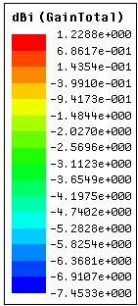


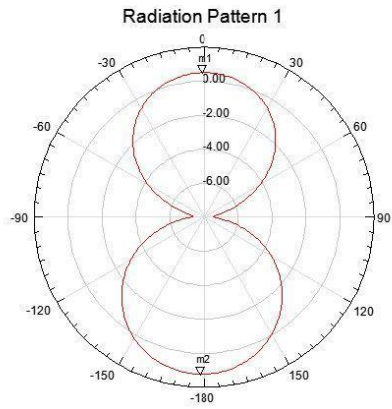
## Appendix A

| <i>Frequency</i> | <i>Max Total Gain</i> | <i>Effeciency</i> |
|------------------|-----------------------|-------------------|
| <i>MHz</i>       | <i>dBi</i>            | <i>%</i>          |
| <i>2400</i>      | -0.46                 | 32                |
| <i>2402</i>      | -0.39                 | 32                |
| <i>2404</i>      | -0.35                 | 32                |
| <i>2406</i>      | -0.32                 | 33                |
| <i>2408</i>      | -0.3                  | 33                |
| <i>2410</i>      | -0.25                 | 33                |
| <i>2412</i>      | -0.22                 | 33                |
| <i>2414</i>      | -0.18                 | 34                |
| <i>2416</i>      | -0.13                 | 34                |
| <i>2418</i>      | -0.06                 | 34                |
| <i>2420</i>      | 0                     | 35                |
| <i>2422</i>      | 0.05                  | 35                |
| <i>2424</i>      | 0.09                  | 35                |
| <i>2426</i>      | 0.16                  | 35                |
| <i>2428</i>      | 0.24                  | 35                |
| <i>2430</i>      | 0.31                  | 35                |
| <i>2432</i>      | 0.39                  | 36                |
| <i>2434</i>      | 0.5                   | 36                |
| <i>2436</i>      | 0.65                  | 37                |
| <i>2438</i>      | 0.87                  | 38                |
| <i>2440</i>      | 1.22                  | 38                |
| <i>2442</i>      | 0.96                  | 38                |
| <i>2444</i>      | 0.73                  | 37                |
| <i>2446</i>      | 0.61                  | 37                |
| <i>2448</i>      | 0.53                  | 37                |
| <i>2450</i>      | 0.44                  | 37                |
| <i>2452</i>      | 0.4                   | 36                |
| <i>2454</i>      | 0.35                  | 36                |
| <i>2456</i>      | 0.27                  | 35                |
| <i>2458</i>      | 0.19                  | 35                |
| <i>2460</i>      | 0.12                  | 35                |
| <i>2462</i>      | 0.07                  | 35                |
| <i>2464</i>      | -0.01                 | 34                |
| <i>2466</i>      | -0.08                 | 34                |
| <i>2468</i>      | -0.14                 | 34                |
| <i>2470</i>      | -0.23                 | 33                |
| <i>2472</i>      | -0.27                 | 33                |
| <i>2474</i>      | -0.33                 | 33                |
| <i>2476</i>      | -0.37                 | 33                |
| <i>2478</i>      | -0.4                  | 33                |
| <i>2480</i>      | -0.42                 | 33                |
| <i>2482</i>      | -0.43                 | 33                |



| Name | Phi      | Ang       | dBi    |
|------|----------|-----------|--------|
| m1   | 360.0000 | -0.0000   | 0.5071 |
| m2   | 181.0000 | -179.0000 | 1.2262 |

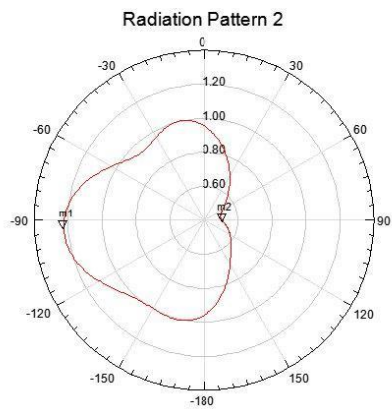
XY\_Plane



| Curve Info               |
|--------------------------|
| dBi (GainTotal)          |
| Setup1 : LastAdaptive    |
| Freq=2.44GHz Theta=90deg |

| Name | Theta    | Ang      | dBi    |
|------|----------|----------|--------|
| m1   | -93.0000 | -93.0000 | 1.2257 |
| m2   | 92.0000  | 92.0000  | 0.5101 |

XZ\_Plane

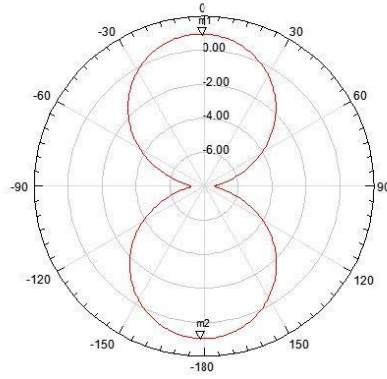


| Curve Info            |
|-----------------------|
| dBi (GainTotal)       |
| Setup1 : LastAdaptive |
| Freq=2.44GHz Phi=0deg |

| Name | Theta     | Ang       | dBi    |
|------|-----------|-----------|--------|
| m1   | 0.0000    | 0.0000    | 0.9557 |
| m2   | -179.0000 | -179.0000 | 0.9583 |

YZ\_Plane

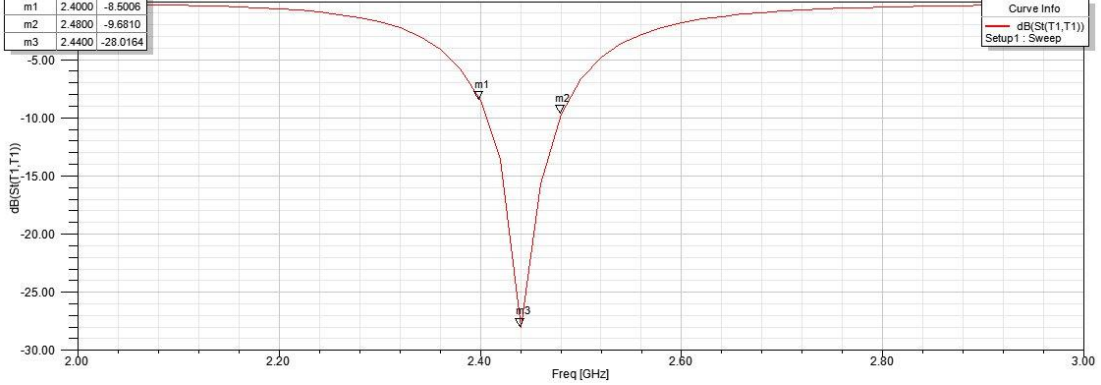
Radiation Pattern 3



| Curve Info             |               |
|------------------------|---------------|
| —                      | dB(GainTotal) |
| Setup1: LastAdaptive   |               |
| Freq=2.44GHz Phi=90deg |               |

| Name | X      | Y        |
|------|--------|----------|
| m1   | 2.4000 | -8.5006  |
| m2   | 2.4800 | -9.6810  |
| m3   | 2.4400 | -28.0164 |

XY Plot 1



| Curve Info    |             |
|---------------|-------------|
| —             | dB(S11(T1)) |
| Setup1: Sweep |             |