

# Antenna test report V1.0

Model/Part No. :W699-1B-B

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射频:

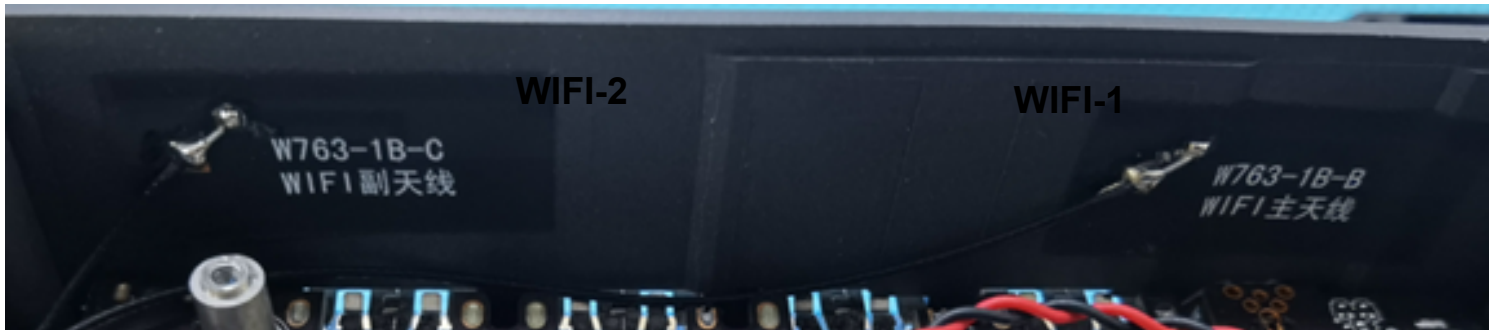
日期: 2020.08.28

# testing environment

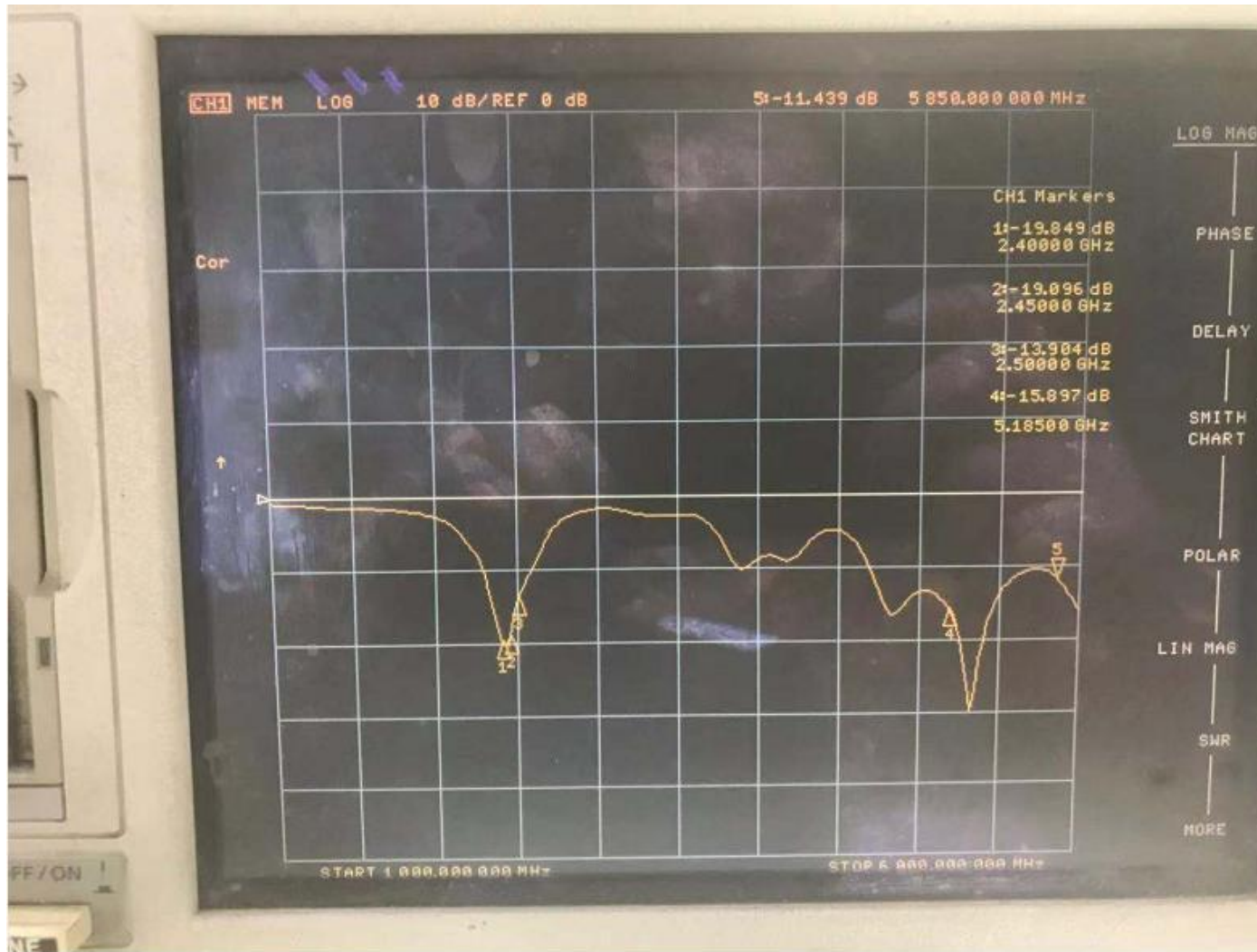
- The antenna characteristics use the microwave anechoic chamber of the ETS test system, the size of the microwave anechoic chamber is 7m x 4m x 3m, and
- the test frequency is 700MHz---6GHz.
- S11 testing using Agilent E5071B network analyzer



# ANT PLACE



# 2.4G+5G



Antenna Solutions

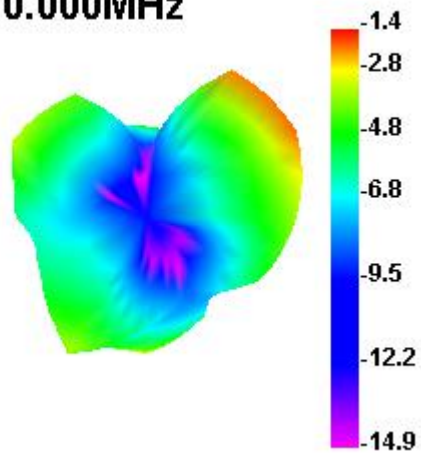


**2.4G WiFi**  
**antenna efficiency**

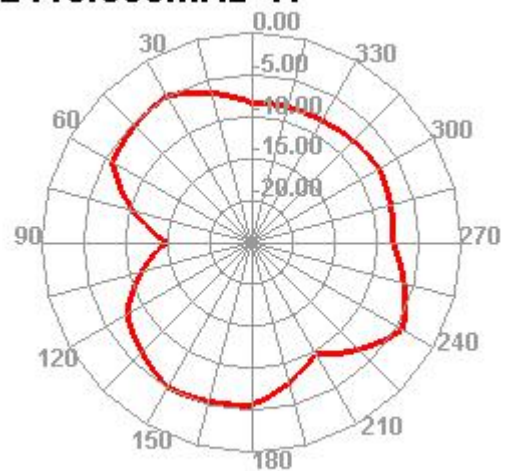
**WIFI1&WIFI2**

| Passive Test For WII2.4 |       |       |       |
|-------------------------|-------|-------|-------|
| Freq                    | Effi  | Effi  | Gain  |
| (MHz)                   | (%)   | (dB)  | (dBi) |
| 2400                    | 22.81 | -6.42 | -1.75 |
| 2410                    | 25.21 | -5.98 | -1.4  |
| 2420                    | 28.32 | -5.48 | -0.95 |
| 2430                    | 31.58 | -5.01 | -0.67 |
| 2440                    | 33.43 | -4.76 | -0.69 |
| 2450                    | 34.92 | -4.57 | -0.64 |
| 2460                    | 33.74 | -4.72 | -0.45 |
| 2470                    | 36.21 | -4.41 | 0.4   |
| 2480                    | 40.05 | -3.97 | 1.04  |
| 2490                    | 42.88 | -3.68 | 1.24  |
| 2500                    | 43.67 | -3.6  | 1.1   |

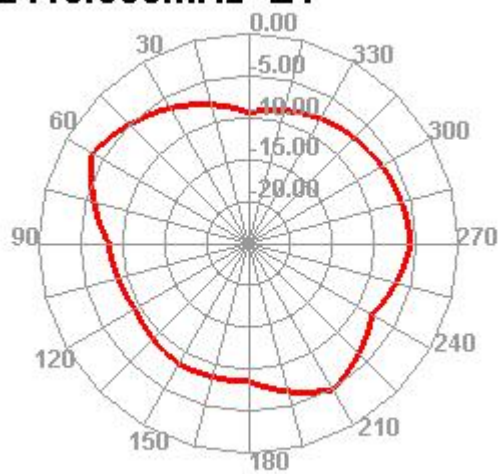
2410.000MHz



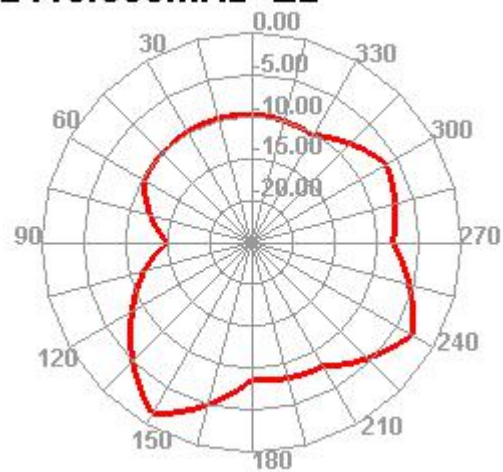
2410.000MHz H



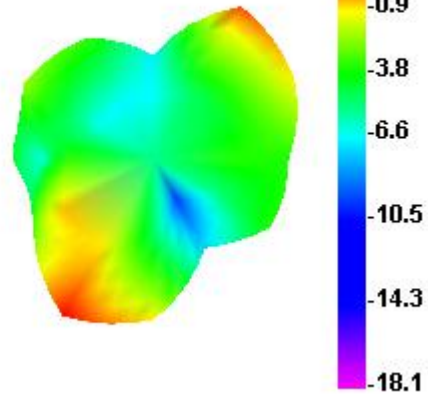
2410.000MHz E1



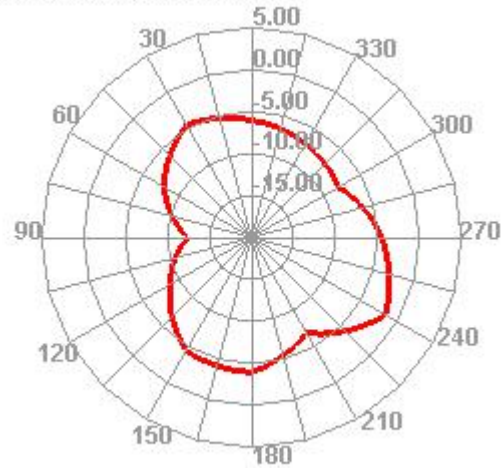
2410.000MHz E2



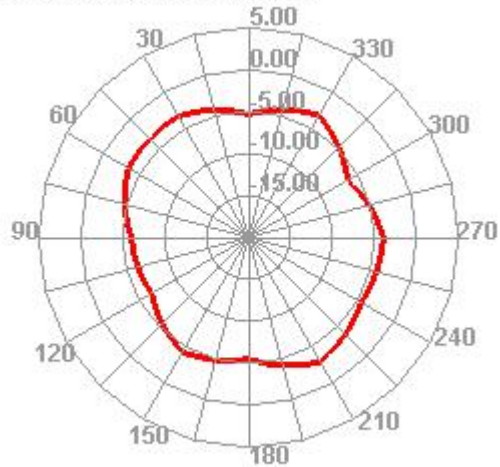
2480.000MHz



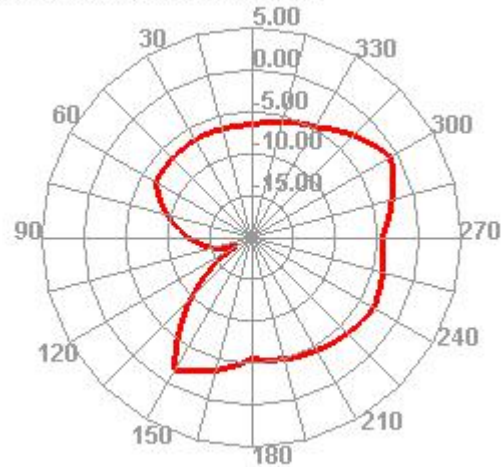
2480.000MHz H



2480.000MHz E1



2480.000MHz E2



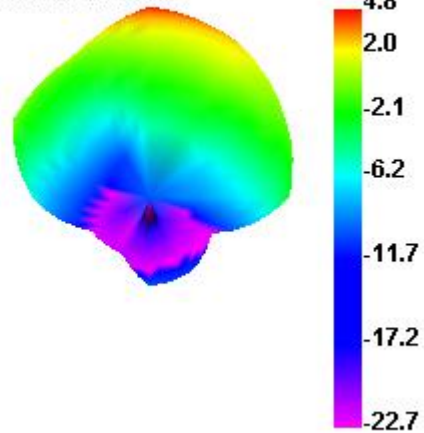


| 5GWiFi antenna efficiency WIFI-1 |       |       |       | Passive Test For WII5.8 |       |       |       |       |       |       |       |
|----------------------------------|-------|-------|-------|-------------------------|-------|-------|-------|-------|-------|-------|-------|
| Freq                             | Effi  | Effi  | Gain  | Freq                    | Effi  | Effi  | Gain  | Freq  | Effi  | Effi  | Gain  |
| (MHz)                            | (%)   | (dB)  | (dBi) | (MHz)                   | (%)   | (dB)  | (dBi) | (MHz) | (%)   | (dB)  | (dBi) |
| 5150                             | 51.97 | -2.84 | 4.37  | 5390                    | 49.56 | -3.05 | 3.82  | 5630  | 44.52 | -3.51 | 3.88  |
| 5160                             | 46.77 | -3.3  | 4.31  | 5400                    | 57.25 | -2.42 | 4.23  | 5640  | 46.08 | -3.36 | 3.76  |
| 5170                             | 42.08 | -3.76 | 3.73  | 5410                    | 61.23 | -2.13 | 4.43  | 5650  | 48.03 | -3.18 | 4.37  |
| 5180                             | 41.68 | -3.8  | 3.61  | 5420                    | 63.63 | -1.96 | 4.62  | 5660  | 46.75 | -3.3  | 3.68  |
| 5190                             | 54.5  | -2.64 | 4.32  | 5430                    | 58.09 | -2.36 | 4.17  | 5670  | 47.14 | -3.27 | 3.94  |
| 5200                             | 49.64 | -3.04 | 4.12  | 5440                    | 58.13 | -2.36 | 4     | 5680  | 42.99 | -3.67 | 3.7   |
| 5210                             | 47    | -3.28 | 3.73  | 5450                    | 55.79 | -2.53 | 4.07  | 5690  | 43.1  | -3.66 | 4.03  |
| 5220                             | 40    | -3.98 | 3.17  | 5460                    | 56.35 | -2.49 | 4.08  | 5700  | 43.07 | -3.66 | 4.1   |
| 5230                             | 42.48 | -3.72 | 3.88  | 5470                    | 57.96 | -2.37 | 4.14  | 5710  | 41.35 | -3.84 | 3.63  |
| 5240                             | 49.41 | -3.06 | 4.21  | 5480                    | 56.61 | -2.47 | 4.15  | 5720  | 41.28 | -3.84 | 3.25  |
| 5250                             | 47.93 | -3.19 | 4.17  | 5490                    | 58.71 | -2.31 | 4.33  | 5730  | 41.37 | -3.83 | 3.84  |
| 5260                             | 48.4  | -3.15 | 4.39  | 5500                    | 56.34 | -2.49 | 4.15  | 5740  | 38.95 | -4.1  | 3.55  |
| 5270                             | 41.27 | -3.84 | 3.71  | 5510                    | 52.91 | -2.76 | 3.97  | 5750  | 37.52 | -4.26 | 3.46  |
| 5280                             | 41.83 | -3.79 | 3.47  | 5520                    | 56.8  | -2.46 | 4.24  | 5760  | 33.57 | -4.74 | 2.54  |
| 5290                             | 46.52 | -3.32 | 4.16  | 5530                    | 52.5  | -2.8  | 3.92  | 5770  | 34.15 | -4.67 | 2.8   |
| 5300                             | 44.45 | -3.52 | 3.83  | 5540                    | 57.83 | -2.38 | 4.41  | 5780  | 31.29 | -5.05 | 2.33  |
| 5310                             | 52.28 | -2.82 | 4.49  | 5550                    | 55.74 | -2.54 | 4.26  | 5790  | 32.09 | -4.94 | 2.38  |
| 5320                             | 50.63 | -2.96 | 4.77  | 5560                    | 52.28 | -2.82 | 4.12  | 5800  | 30.28 | -5.19 | 2.02  |
| 5330                             | 45.85 | -3.39 | 3.9   | 5570                    | 51.36 | -2.89 | 4.03  | 5810  | 28.18 | -5.5  | 1.81  |
| 5340                             | 49.91 | -3.02 | 4.24  | 5580                    | 49.02 | -3.1  | 3.89  | 5820  | 27.16 | -5.66 | 1.73  |
| 5350                             | 47.56 | -3.23 | 3.82  | 5590                    | 51.58 | -2.88 | 4.24  | 5830  | 26.13 | -5.83 | 1.7   |
| 5360                             | 56.41 | -2.49 | 4.53  | 5600                    | 51.5  | -2.88 | 4.35  | 5840  | 25.63 | -5.91 | 1.35  |
| 5370                             | 57.1  | -2.43 | 4.96  | 5610                    | 48.62 | -3.13 | 4     | 5850  | 24.75 | -6.06 | 1.62  |
| 5380                             | 52.33 | -2.81 | 4.31  | 5620                    | 49.33 | -3.07 | 4.07  |       |       |       |       |

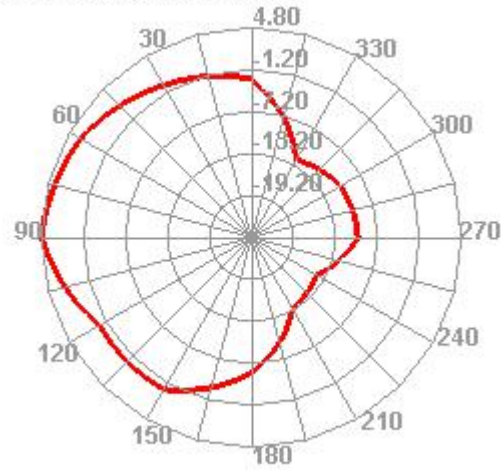




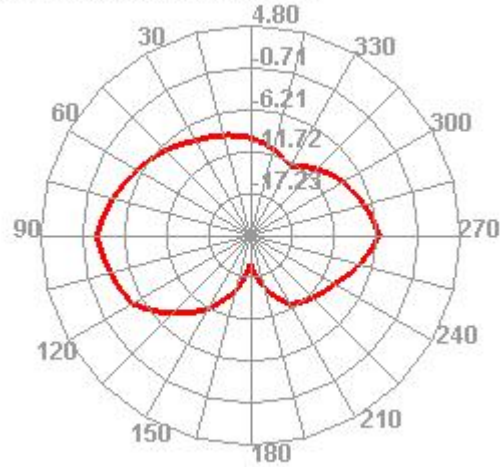
5150.000MHz



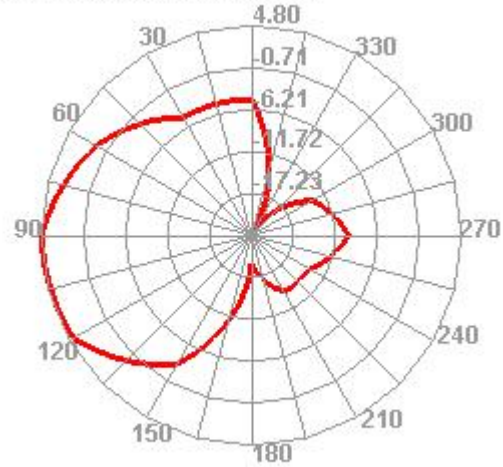
5150.000MHz H



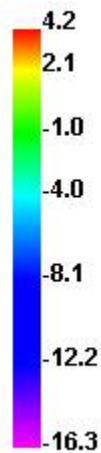
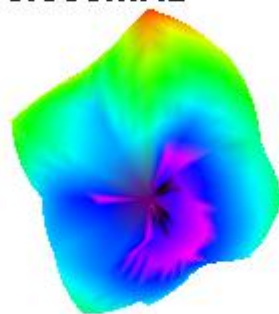
5150.000MHz E1



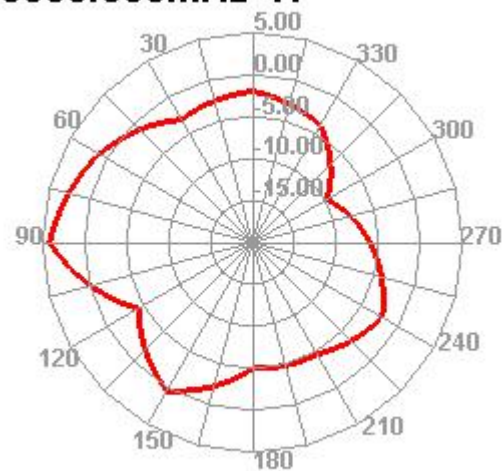
5150.000MHz E2



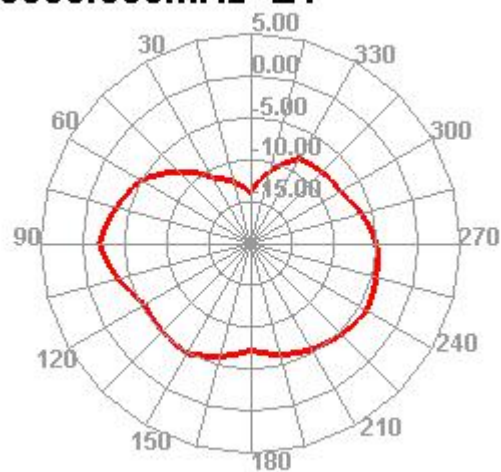
5500.000MHz



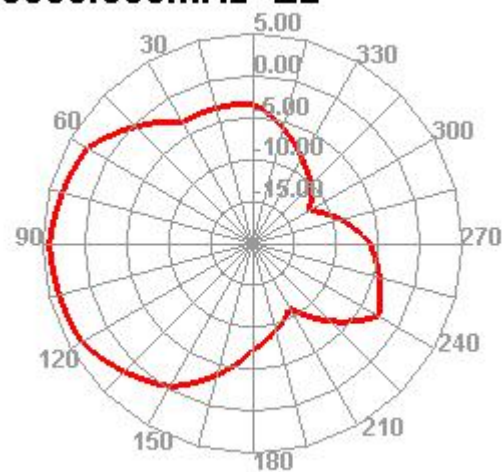
5500.000MHz H



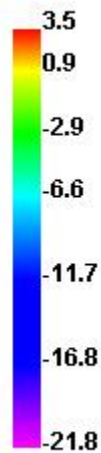
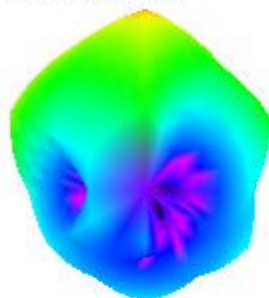
5500.000MHz E1



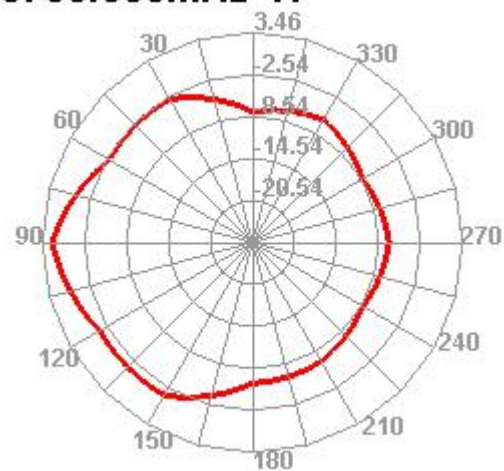
5500.000MHz E2



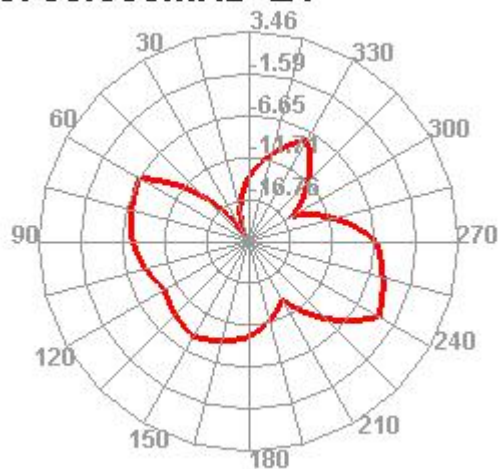
5750.000MHz



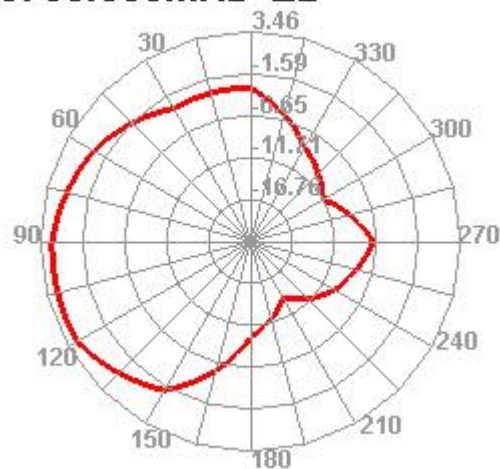
5750.000MHz H



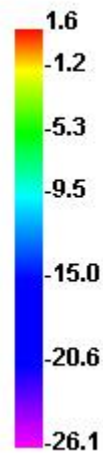
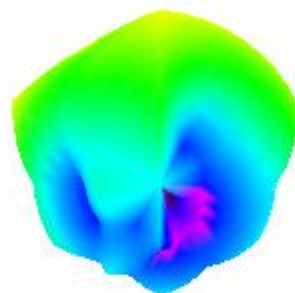
5750.000MHz E1



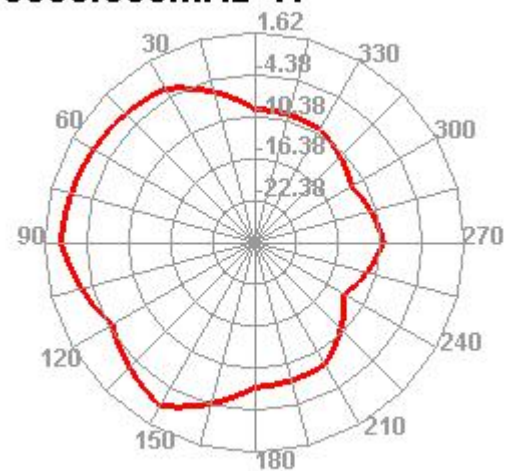
5750.000MHz E2



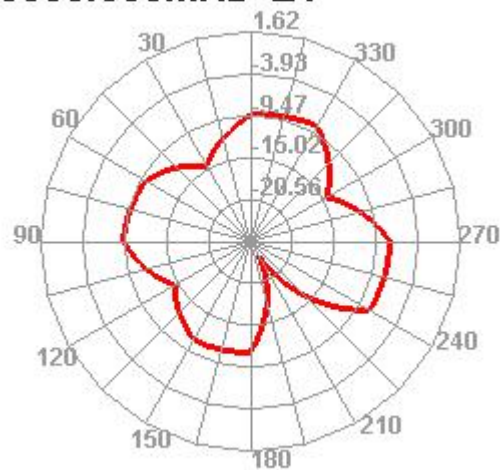
5850.000MHz



5850.000MHz H



5850.000MHz E1



5850.000MHz E2

