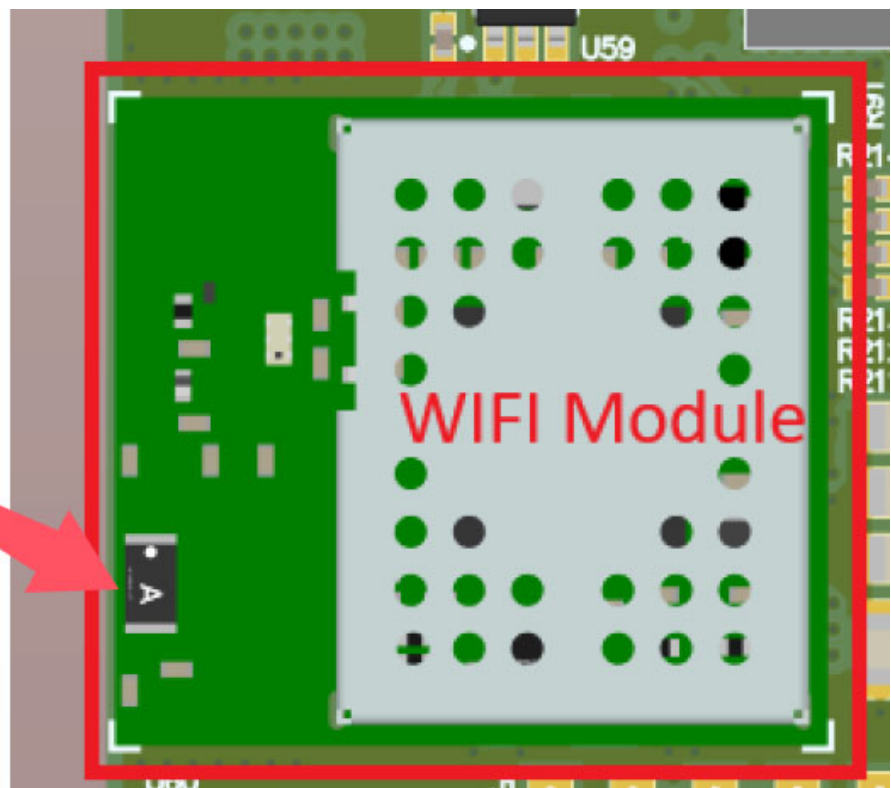
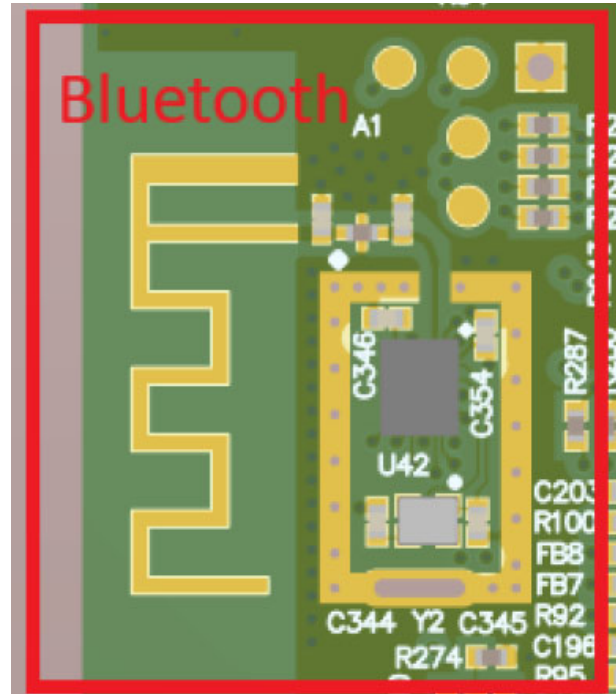


## ANTENNA SPECIFICATION

Antenna:



Antenna manufacturer: Analogue Enterprises Ltd.  
Brand name: Analogue

## Antenna Information:

### 1. Antenna 1: Bluetooth antenna

Frequency range: 2400-2483.5MHz

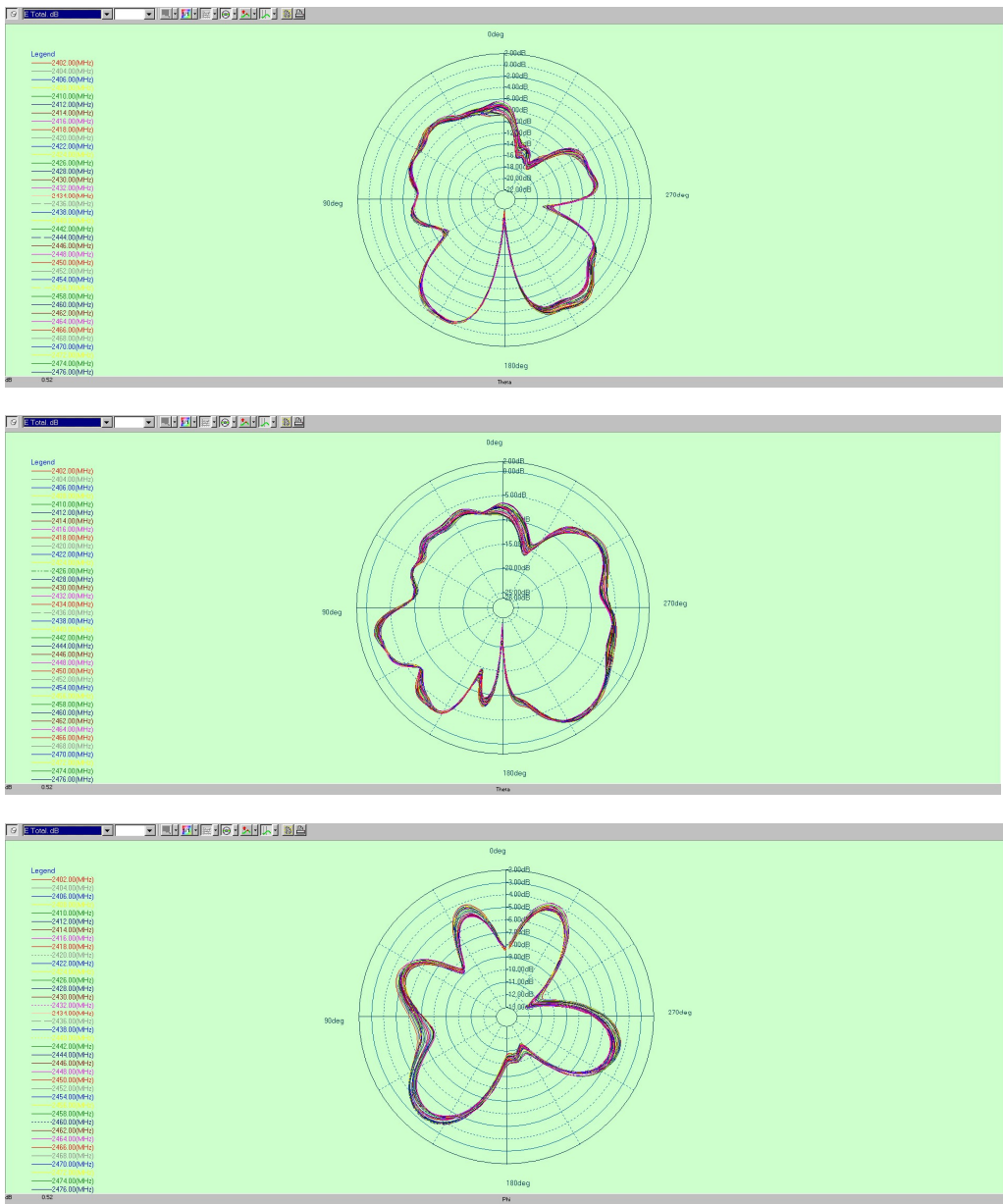
Model name: A3D-A

Type of antenna: PCB antenna

Antenna gain:

| Frequency(MHz) | Gain(dB) |
|----------------|----------|
| 2400           | -6.20    |
| 2410           | -5.79    |
| 2420           | -6.01    |
| 2430           | -5.88    |
| 2440           | -5.20    |
| 2450           | -6.03    |
| 2460           | -6.11    |
| 2470           | -5.97    |
| 2480           | -5.65    |
| 2490           | -6.23    |
| 2500           | -6.21    |

Radiation Pattern:



**2. Antenna 2: WIFI antenna**

Frequency range: 2400-2483.5MHz

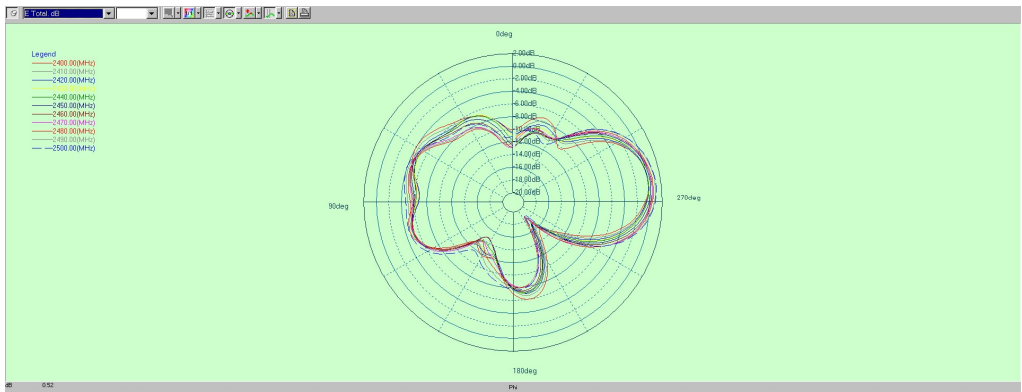
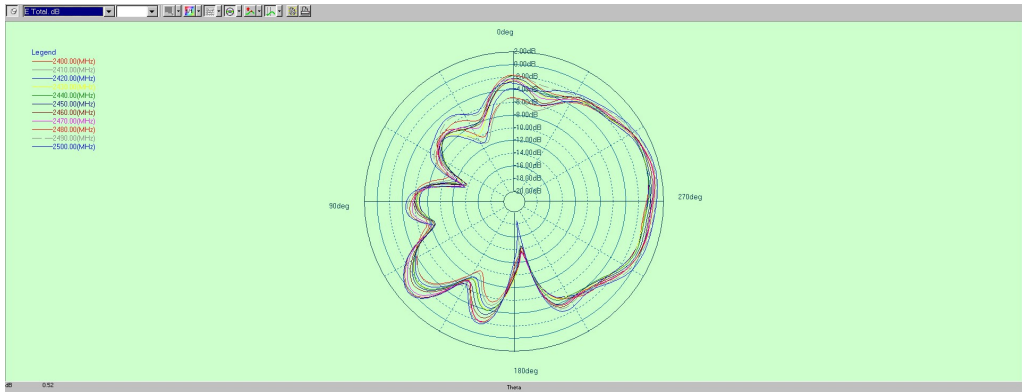
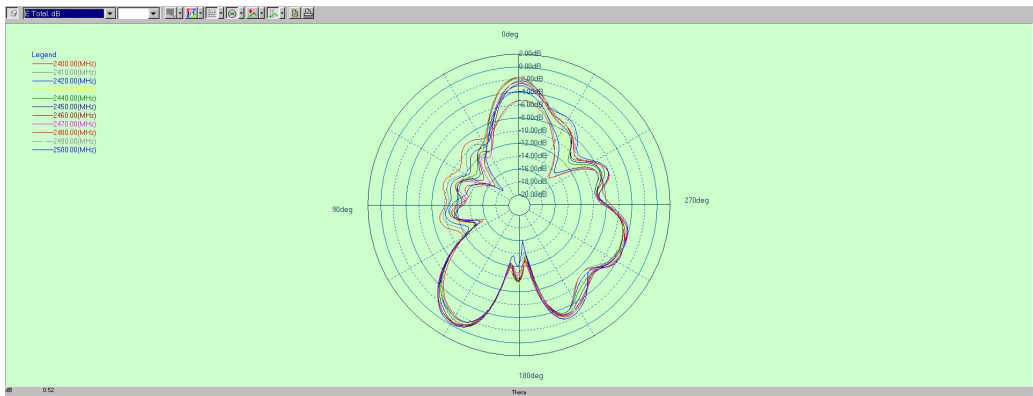
Model name: A3D-B

Type of antenna: PCB antenna

Antenna gain:

| Frequency(MHz) | Gain(dB) |
|----------------|----------|
| 2406           | -5.66    |
| 2416           | -5.80    |
| 2426           | -5.09    |
| 2436           | -6.28    |
| 2446           | -5.43    |
| 2456           | -6.67    |
| 2466           | -6.11    |
| 2476           | -5.95    |

Radiation Pattern:



Frequency range: 5100-5900MHz

Model name: A3D-B

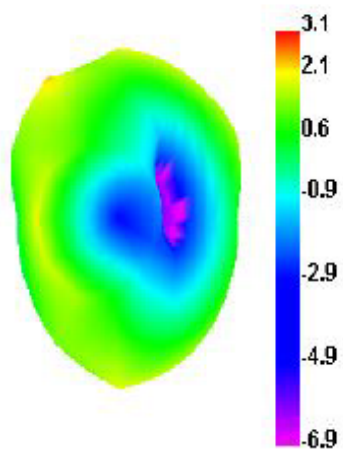
Type of antenna: PCB antenna

Antenna gain:

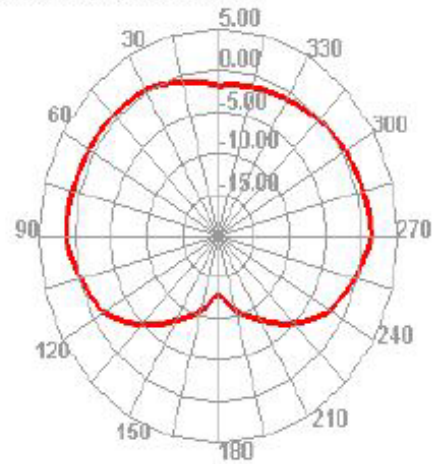
| Passive Test For 5G |       |       |       |       |       |       |       |       |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Freq                | Effi  | Gain  | Freq  | Effi  | Gain  | Freq  | Effi  | Gain  |
| (MHz)               | (%)   | (dBi) | (MHz) | (%)   | (dBi) | (MHz) | (%)   | (dBi) |
| 5100                | 69.29 | 3.08  | 5360  | 73.58 | 3.45  | 5620  | 49.81 | 1.53  |
| 5110                | 73.64 | 3.44  | 5370  | 68.31 | 3.14  | 5630  | 53.44 | 1.87  |
| 5120                | 78.68 | 3.65  | 5380  | 69.3  | 3.27  | 5640  | 59.73 | 2.39  |
| 5130                | 66.65 | 2.9   | 5390  | 68.07 | 3.14  | 5650  | 60    | 2.41  |
| 5140                | 66.25 | 2.96  | 5400  | 72.29 | 3.28  | 5660  | 58.45 | 2.49  |
| 5150                | 60.37 | 2.62  | 5410  | 73.83 | 3.24  | 5670  | 58.06 | 2.35  |
| 5160                | 61.46 | 2.79  | 5420  | 67.79 | 2.74  | 5680  | 58.12 | 2.28  |
| 5170                | 61.91 | 2.94  | 5430  | 59.77 | 2.14  | 5690  | 65.83 | 2.52  |
| 5180                | 63.28 | 3.11  | 5440  | 58.17 | 2.14  | 5700  | 67.17 | 2.31  |
| 5190                | 57.1  | 2.66  | 5450  | 56.9  | 2.11  | 5710  | 63.23 | 1.97  |
| 5200                | 60.12 | 2.94  | 5460  | 61.79 | 2.61  | 5720  | 61.24 | 1.79  |
| 5210                | 60.8  | 2.95  | 5470  | 60.49 | 2.5   | 5730  | 59.13 | 1.89  |
| 5220                | 66.98 | 3.37  | 5480  | 57.95 | 2.34  | 5740  | 60.12 | 2.11  |
| 5230                | 67.49 | 3.37  | 5490  | 53.89 | 2.12  | 5750  | 64.8  | 2.58  |
| 5240                | 68.33 | 3.33  | 5500  | 52.81 | 1.89  | 5760  | 66.8  | 2.67  |
| 5250                | 59.51 | 2.64  | 5510  | 51.49 | 1.79  | 5770  | 65.71 | 2.5   |
| 5260                | 57.68 | 2.53  | 5520  | 54.25 | 1.96  | 5780  | 61.55 | 1.93  |
| 5270                | 59.53 | 2.78  | 5530  | 52.39 | 1.79  | 5790  | 57.76 | 1.48  |
| 5280                | 65.98 | 3.25  | 5540  | 49.92 | 1.72  | 5800  | 58.77 | 1.41  |
| 5290                | 69.71 | 3.52  | 5550  | 49.01 | 1.72  | 5810  | 61.51 | 1.63  |
| 5300                | 75.24 | 3.75  | 5560  | 49.76 | 1.81  | 5820  | 58.52 | 1.53  |
| 5310                | 68.89 | 3.31  | 5570  | 51.31 | 2.01  | 5830  | 56    | 1.48  |
| 5320                | 69.48 | 3.32  | 5580  | 57.38 | 2.52  | 5840  | 55.38 | 1.59  |
| 5330                | 65.97 | 2.97  | 5590  | 56.04 | 2.3   | 5850  | 55.74 | 1.53  |
| 5340                | 69.61 | 3.17  | 5600  | 51.52 | 1.82  |       |       |       |
| 5350                | 74.92 | 3.44  | 5610  | 49.81 | 1.57  |       |       |       |

Radiation Pattern:

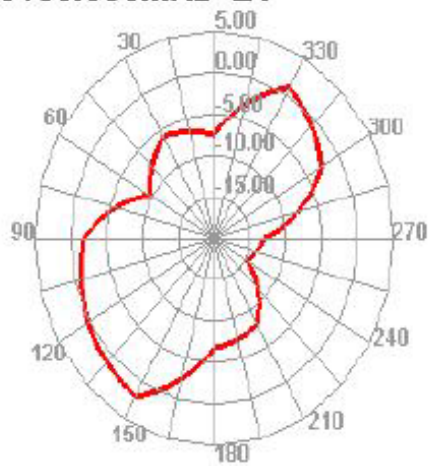
**5100.000MHz**



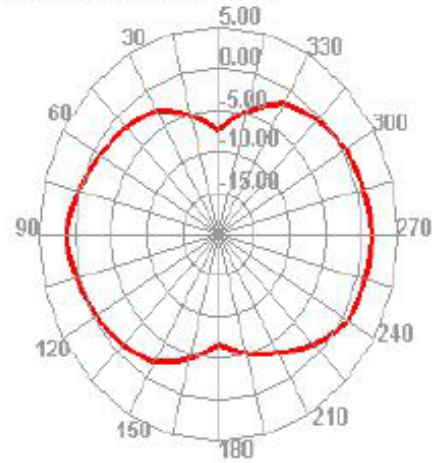
**5100.000MHz H**



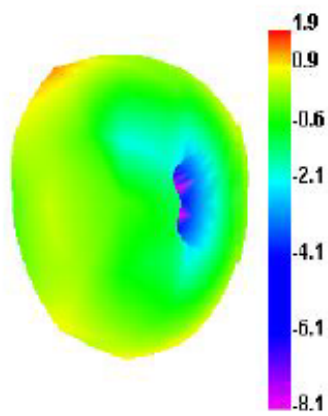
**5100.000MHz E1**



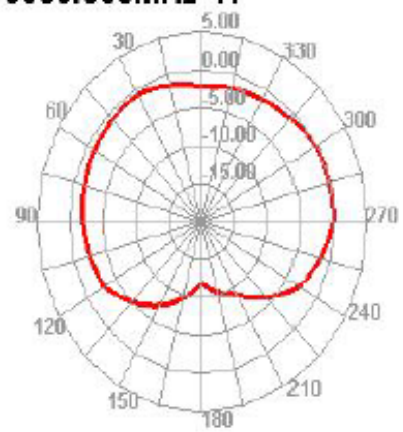
**5100.000MHz E2**



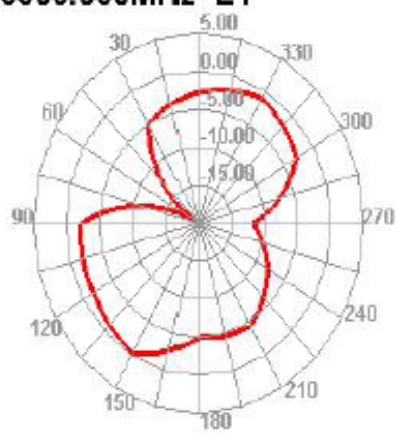
5500.000MHz



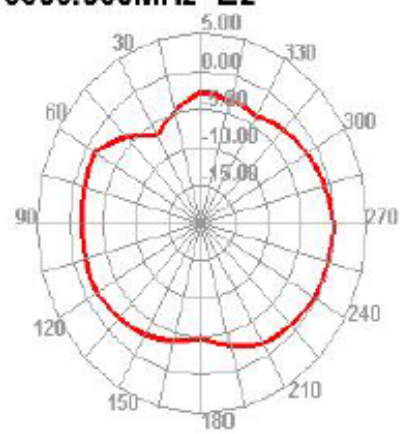
5500.000MHz H



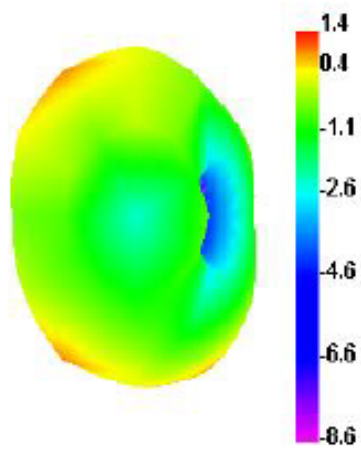
5500.000MHz E1



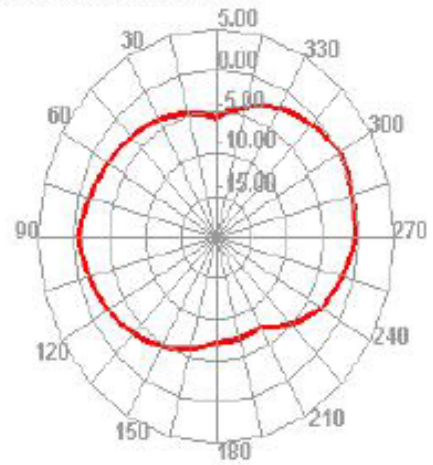
5500.000MHz E2



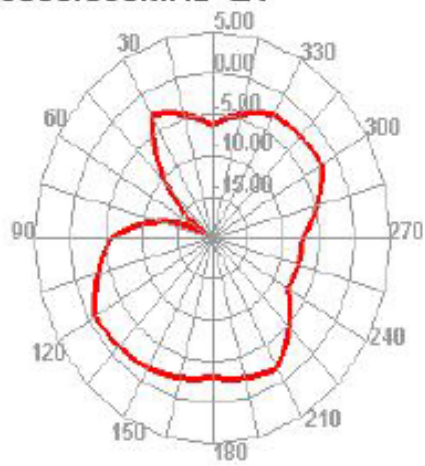
5800.000MHz



5800.000MHz H



5800.000MHz E1



5800.000MHz E2

