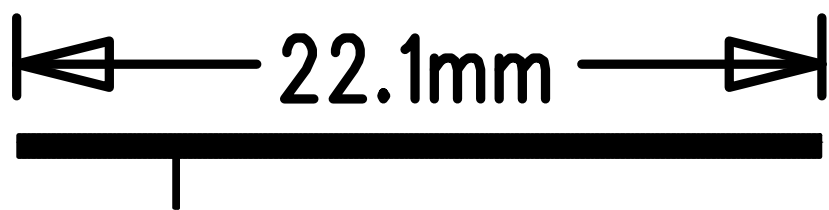


Antenna Specification

Specifications Summary

ITEM	SPEC.	
Model Name	IBM 2.4 GHz	
Antenna type	PCB antenna	
Center Frequency	2403 MHz 2441 MHz 2480 MHz	-2.28 dBi -2.44 dBi 0.95 dBi
MAX. GAIN	0.95 dBi	
Polarization	Horizontal	
Azimuth Beam Pattern	Omni-directional	
Impedance	50Ω	
Manufacturer	COOLING Spolka z o.o.	
Address	Sokolowska 24 Sokolow 05-806 Poland	
Antenna Length	2.21cm	

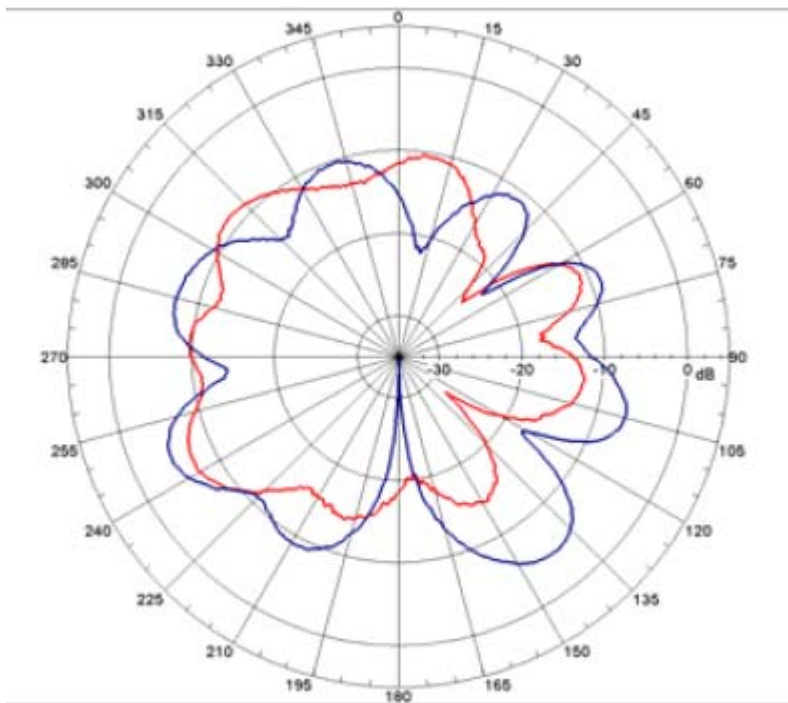
Antenna Photo & Length (mm)



1. Main antenna : 2403 MHz

(green line: horizontal power)
(red line: vertical power)

1.1 Horizontal



Frequency(MHZ): **2403**

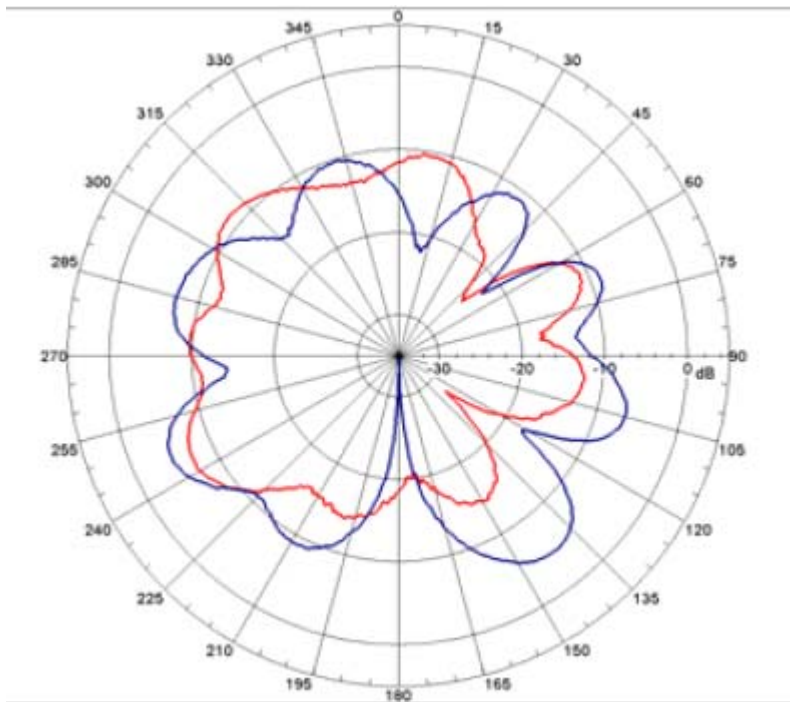
Antenna Polarity: **Horizontal**

Maximum Value(dBi): **-2.28**

Average Gain(dBi) : **-2.48**

Minimum Gain(dBi): **-55.18**

1.2 Vertical



Frequency(MHZ): **2403**

Antenna Polarity: **Vertical**

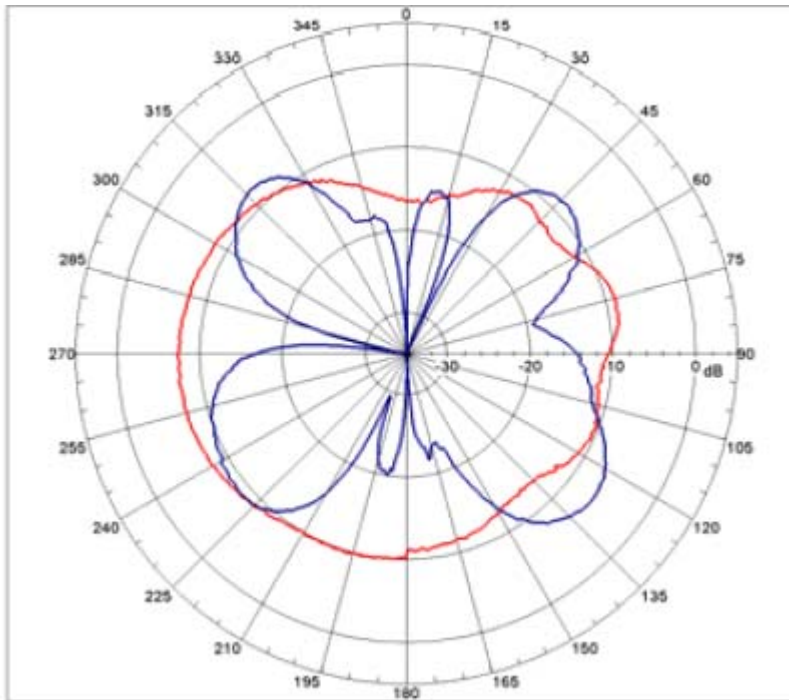
Maximum Value(dBi): **-4.51**

Average Gain(dBi) : **-8.98**

Minimum Gain(dBi): **-62.3**

2. Main antenna : 2441 MHz

2.1 Horizontal



Frequency(MHZ): **2441**

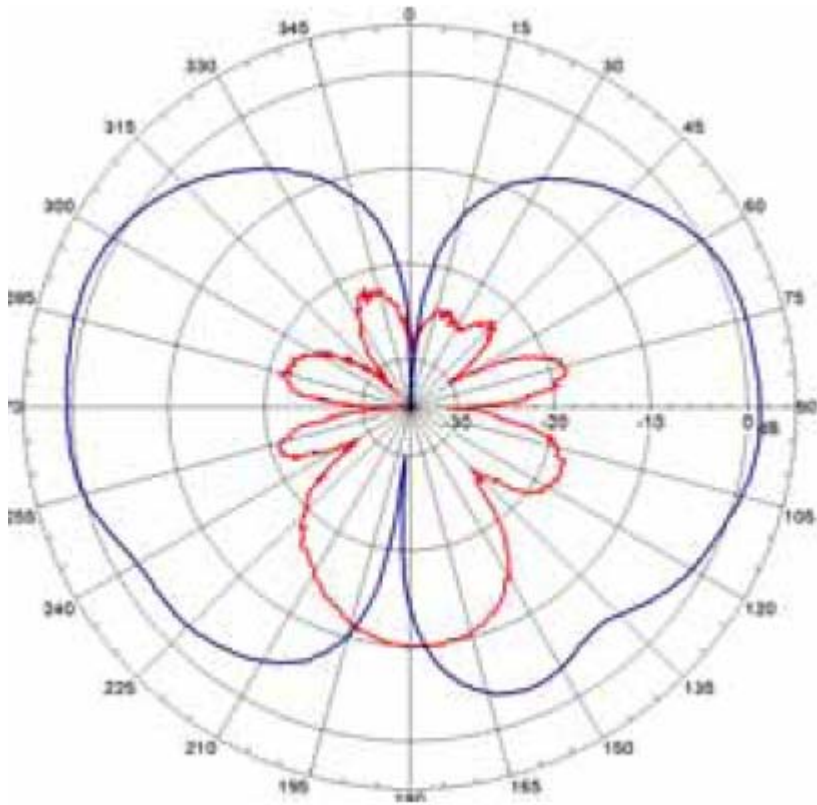
Antenna Polarity: **Horizontal**

Maximum Value(dBi): **-2.44**

Average Gain(dBi) : **-6.20**

Minimum Gain(dBi): **-64.78**

2.2 Vertical



Frequency(MHZ): **2441**

Antenna Polarity: **Vertical**

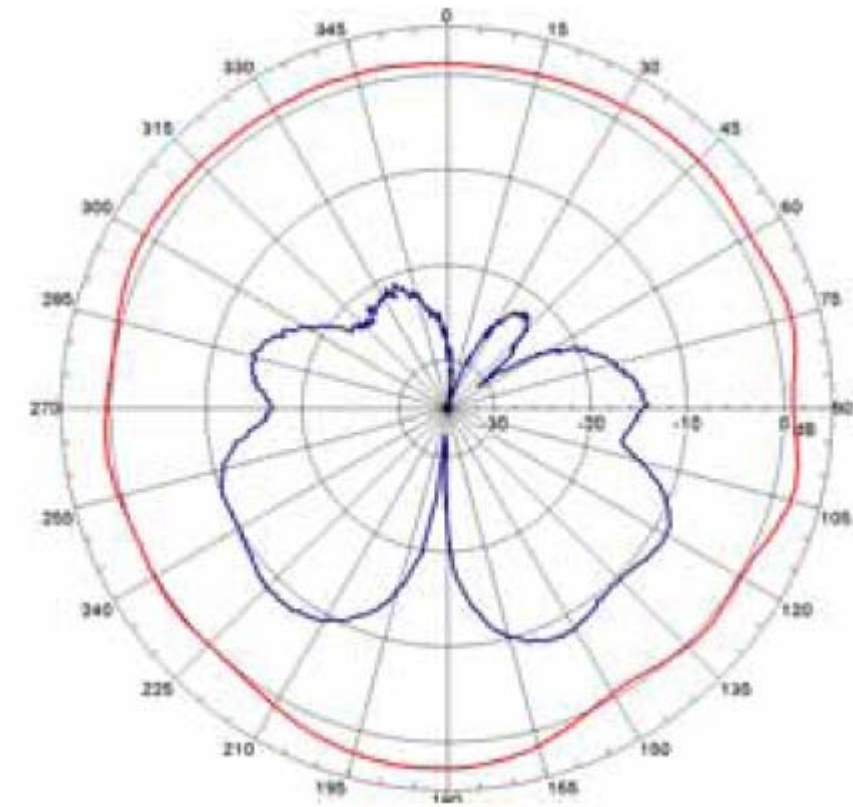
Maximum Value(dBi): **-10.00**

Average Gain(dBi) : **-8.41**

Minimum Gain(dBi): **-47.4**

2. Main antenna : 2480 MHz

2.1 Horizontal



Frequency(MHZ): **2480**

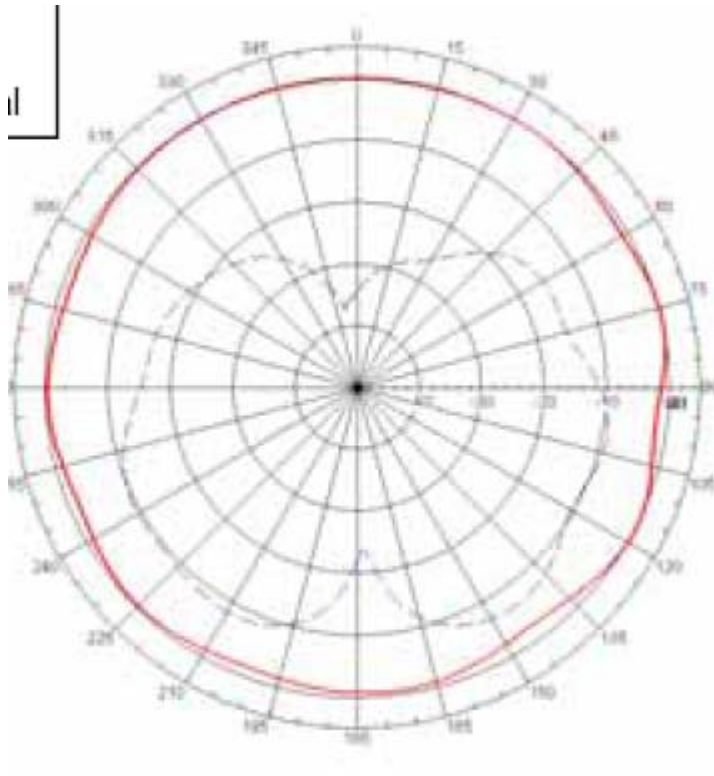
Antenna Polarity: **Horizontal**

Maximum Value(dBi): **-8.31**

Average Gain(dBi) : **-4.34**

Minimum Gain(dBi): **-55.4**

2.2 Vertical



Frequency(MHZ): **2480**

Antenna Polarity: **Vertical**

Maximum Value(dBi): **0.95**

Average Gain(dBi) : **-14.06**

Minimum Gain(dBi): **-64.00**