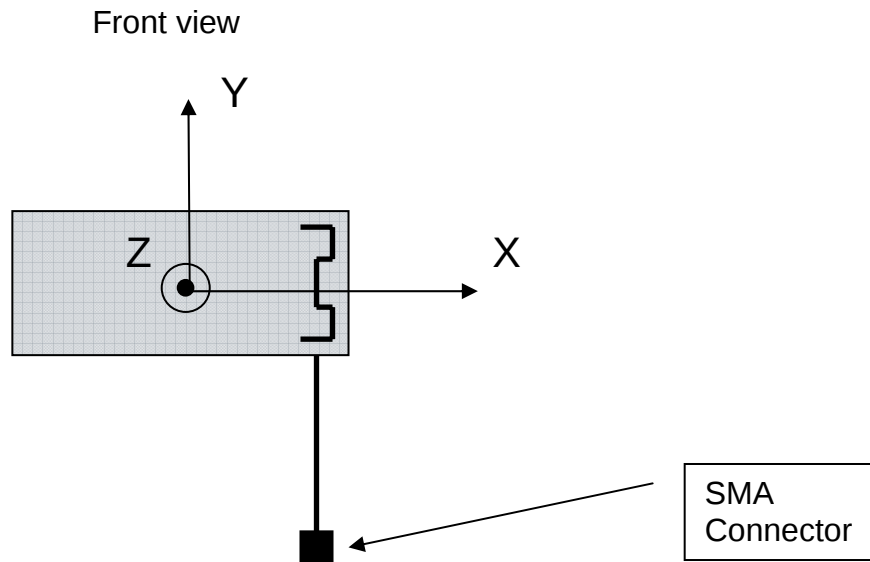


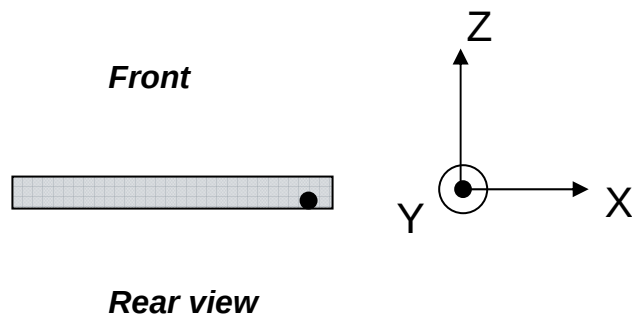
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Antenna Pattern of Bluetooth USB Dongle		
Approved by: Bryan Lee	Prepared by: C.F Liu/ Bryan Lee	
Department : Wireless Communication Department, CPE R&D Division		

1. Coordinate System Reference:

Top View:

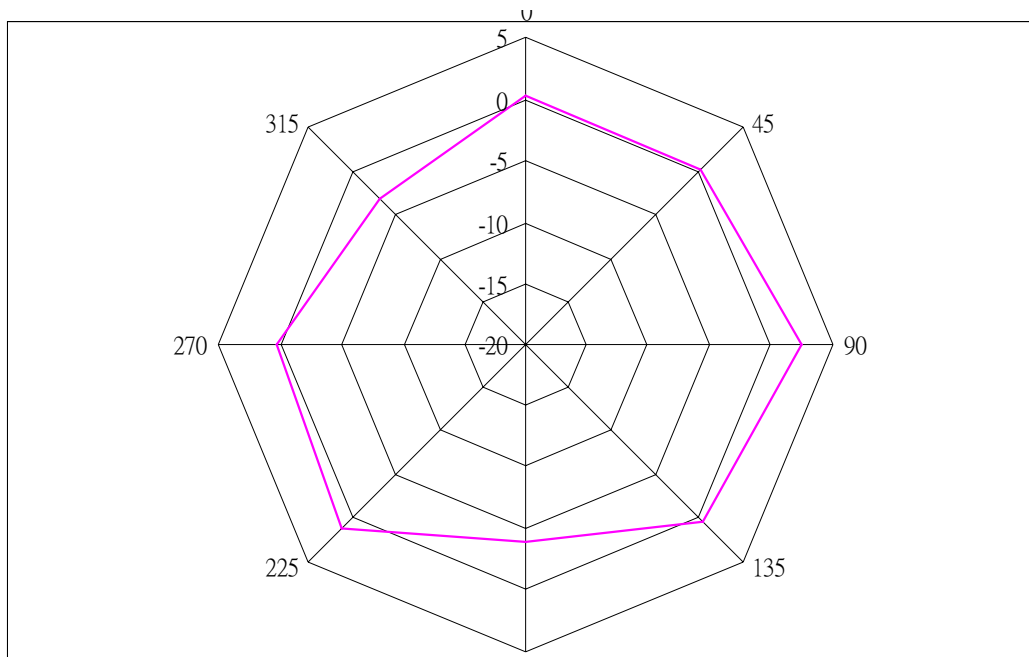


Side View:



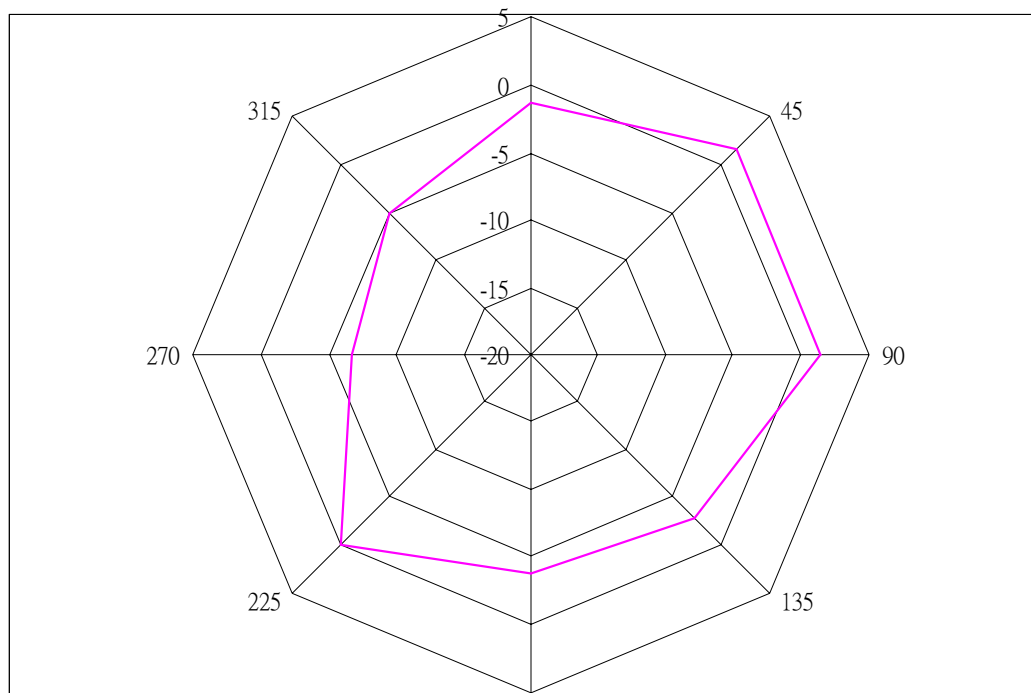
2. Radiation pattern: XZ Plane(Freq.-2.45GHz)

Degree	XZ
0	0.3
45	0.3
90	2.5
135	0.4
180	-4
225	1.2
270	0.3
315	-3.2



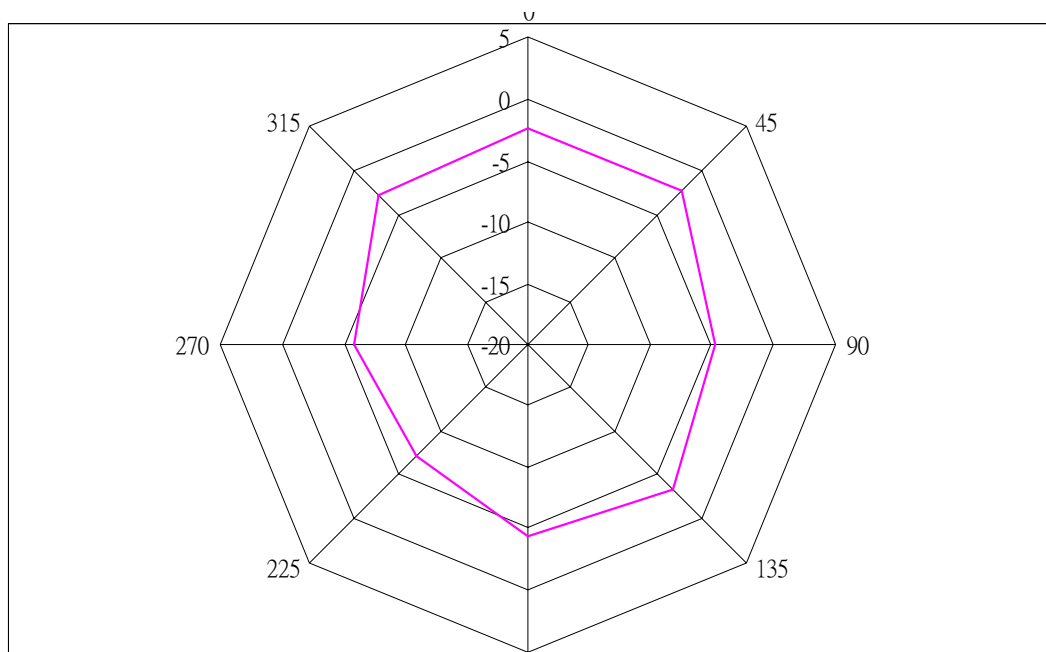
3. Radiation pattern: XY Plane(Freq.-2.45GHz)

Degree	XY
0	-1.4
45	1.4
90	1.4
135	-2.9
180	-3.9
225	-0.2
270	-6.7
315	-5.3

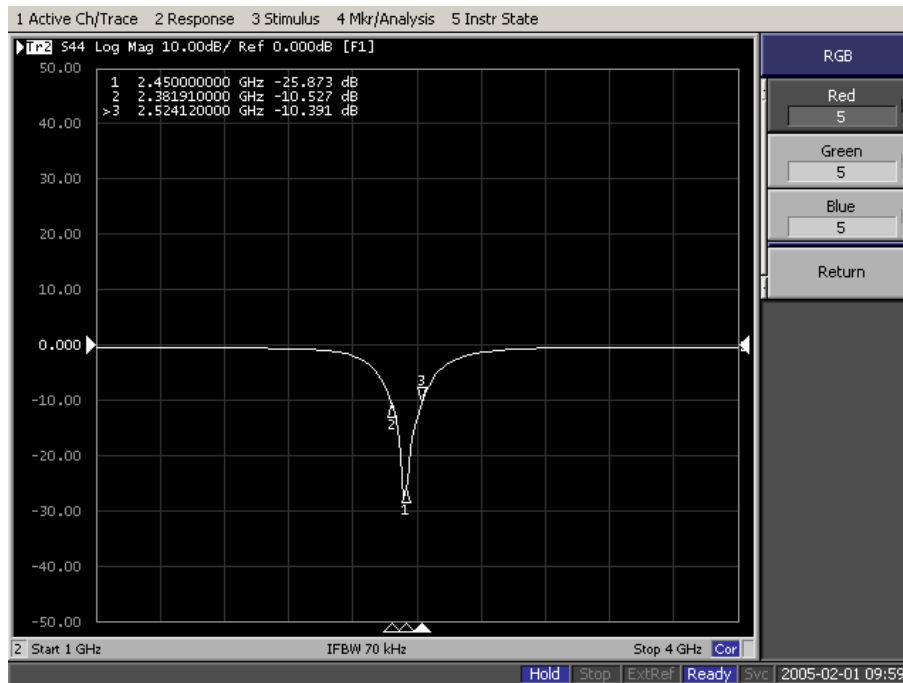


4. Radiation pattern: YZ Plane(Freq.-2.45GHz)

Degree	YZ
0	-2.5
45	-2.5
90	-4.7
135	-3.4
180	-4.5
225	-7.1
270	-5.9
315	-2.8



5. Return Loss



Bandwidth: 2.38~2.52GHz

	Low	High
< -10dB	2.382 GHz	2.52 GHz

6. Antenna gain:

Antenna gain(天線增益) is 2.5 dBi and it is found at 90deg of the XY plane.