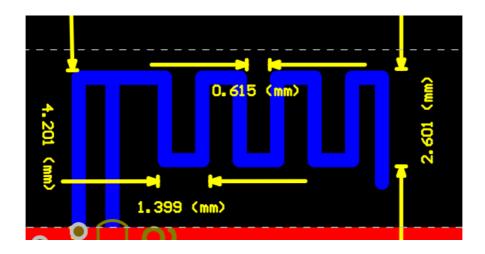
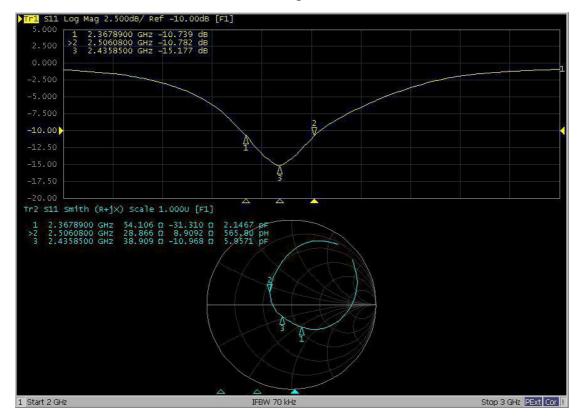
Normal Dongle PIFA antenna design specification:

This PIFA antenna is used in normal dongle with whole layout board which size is 15mm*18mm and thickness is 1.0mm (FR4)



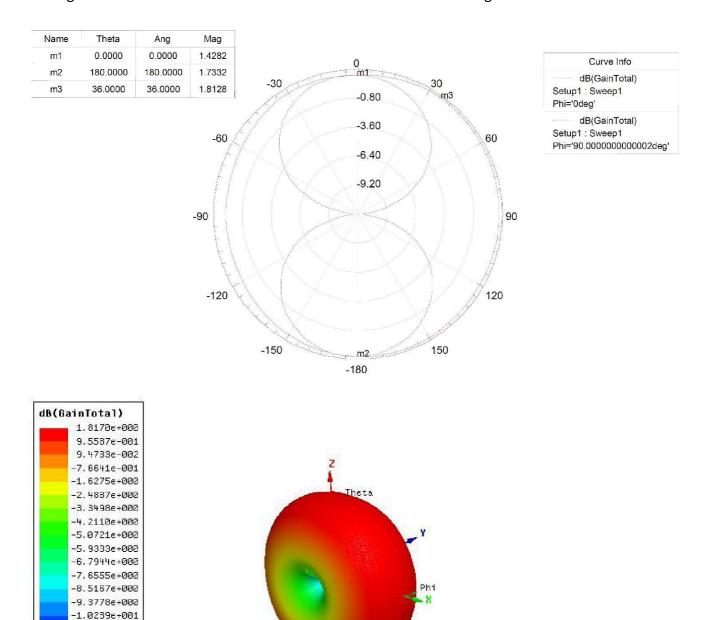
2-1 Normal Dongle PIFA Antenna

The performance of S11 as blow show and the working frequency band cover 2.4G ISM and bandwidth is wider than nano dongle.



2-2 Normal Dongle PIFA S11 performance

The gain of this antenna 2D and 3D as blow show and the maximum gain is about 1.5dB.



Radiation Patterns (GAIN @ 2440MHz)

−1.1100e+001 −1.1961e+001

Plane	XY			XZ			YZ		
Frequency(MHz)	2400	2440	2480	2400	2440	2480	2400	2440	2480
Peak Gain(dBi)	1.70	1.73	1.71	1.79	1.81	1.78	1.71	1.73	1.72

2-3 Normal Dongle PIFA gain