

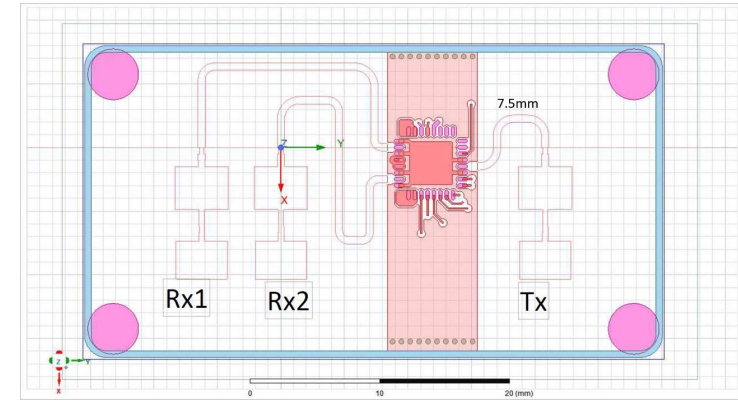
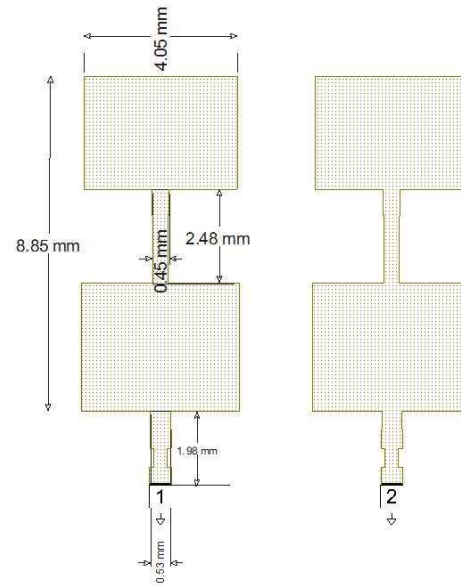
Antenna Brand: ALPHA
 Antenna Model: 1X2 Patch 24GHz
 Antenna type: patch
 Manufacturer : Alpha Networks Inc.
 Address: No.8, Li-shing 7th Rd., Science-based Industrial Park,
 Hsinchu, 300, Taiwan

Product Name: 24GHz Radar
 Model: ARFSA06
 Barand: Acer Gadget Inc.

IRF-SA06 24GHz Radar Simulation Result

PCB Material RO4350B
 Dk: 3.66
 Df: 0.004
 PCB Thickness =0.254mm(10mil)

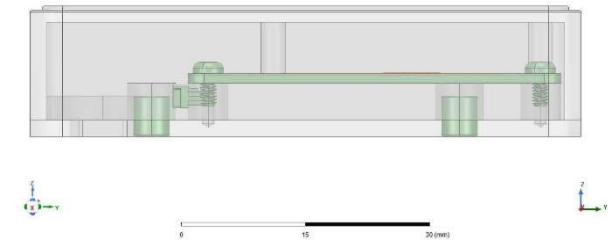
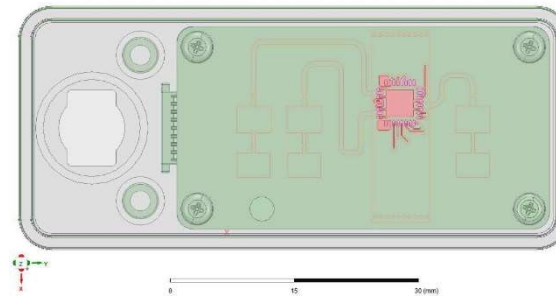
Housing Material
 Er:2.7



	3dB Beam width			
	W/O Housing		W/ Housing	
	H	V	H	V
Tx	78	67	51	39
Rx1	48	71	42	41
Rx2	63	64	47	50

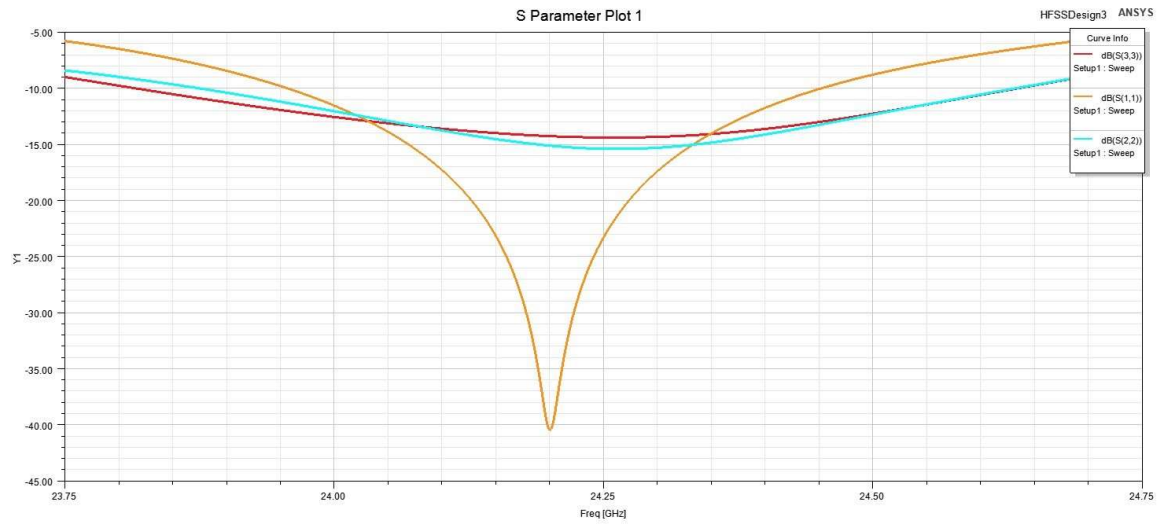
	Peak Gain(dBi)	
	W/ Housing	
	H	V
Tx	11.5	9.6
Rx1	11	11.7
Rx2	11.2	11.4

W/ Housing

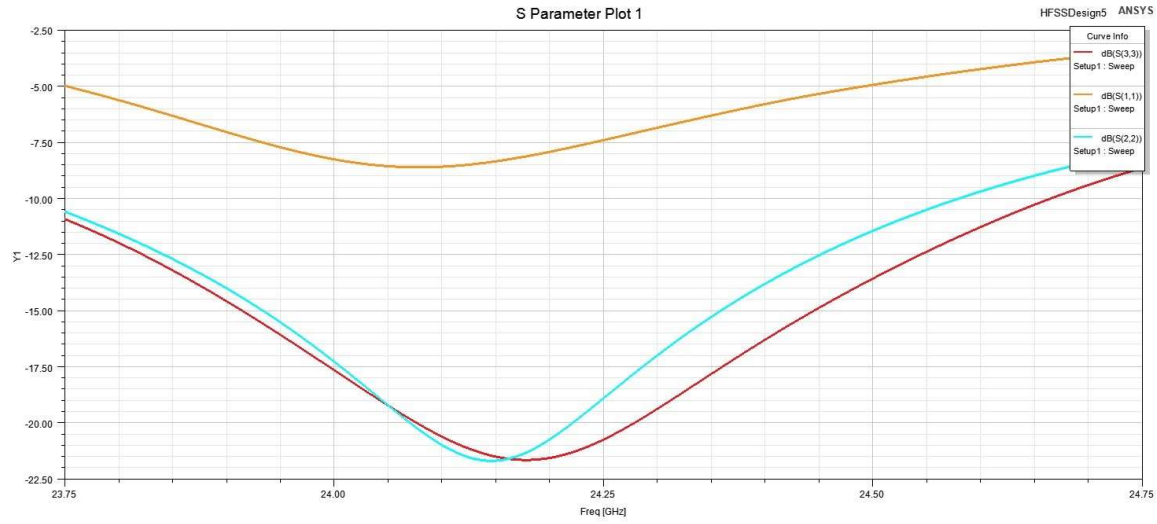


Return Loss

W/O Housing



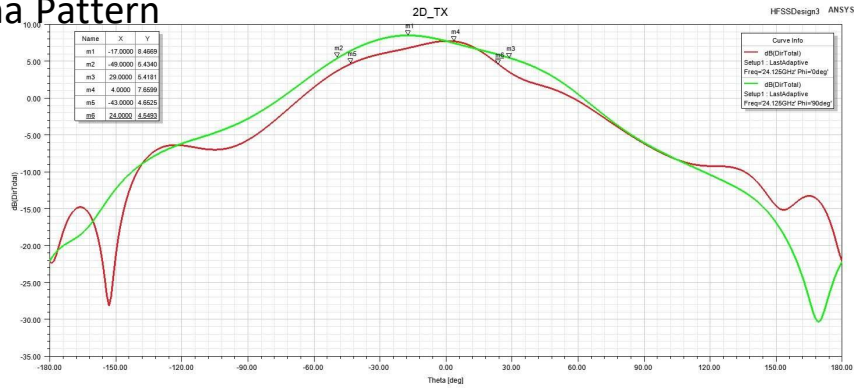
W/ Housing



2D Antenna Pattern

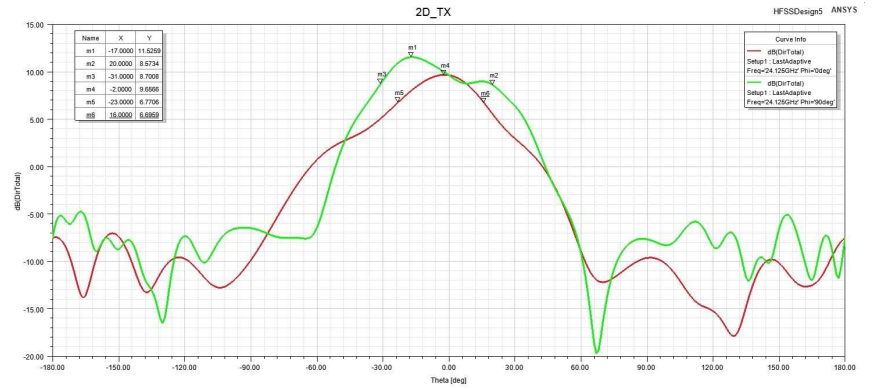
W/O Housing

TX

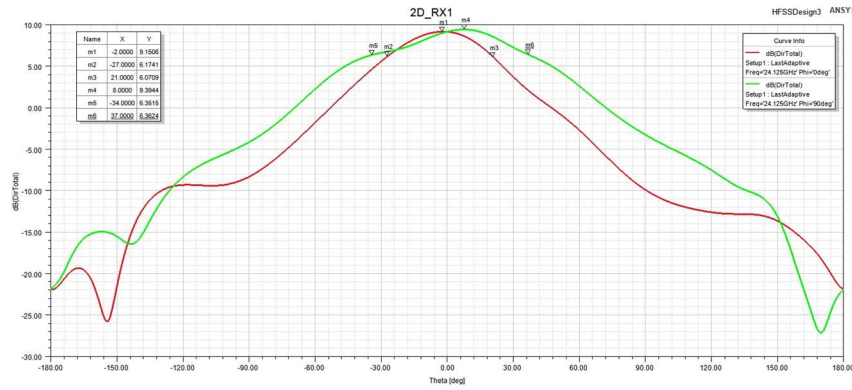


W/ Housing

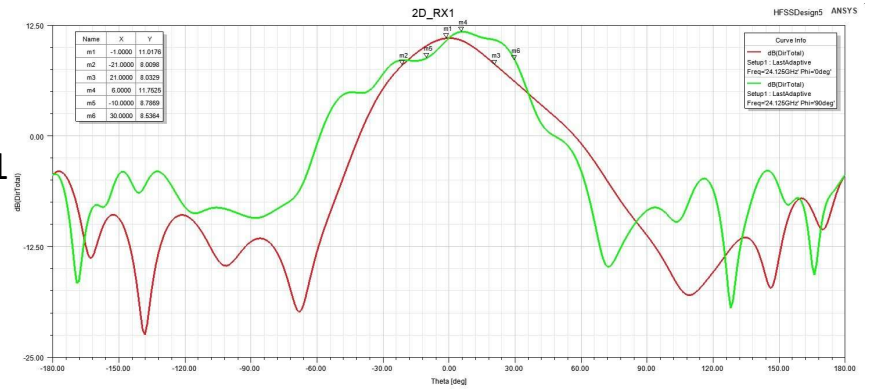
TX



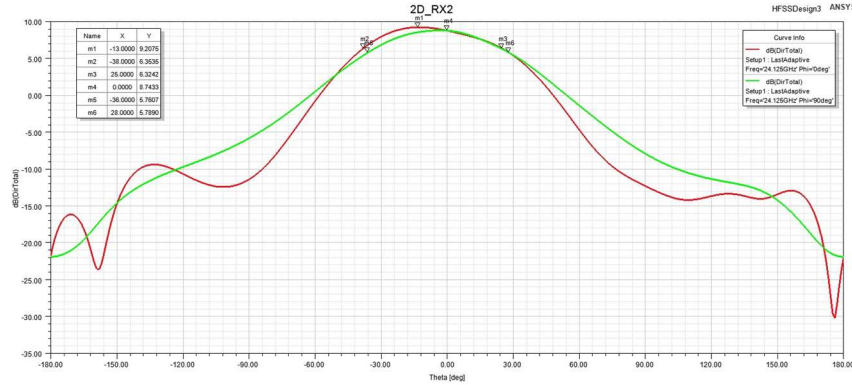
RX_1



RX_1



RX_2



RX_2

