Antenna Specification

Quick Reference Date

	Antenna on the system board	
Frequency Range	2400 ~ 2500MHz	
Ant. Port Input Pwr. (dBm)	2 (Typ. BT class2 output power)	
Efficiency (%)	>50%	
Gain (dBi)	1.03(Avg. Gain)	
Max Gain(dBi)	1.19	
Input Impendence (ohm)	50	
Polarization Type	Vertical & Horizontal	
V.S.W.R	< 1.5	

All the technical data and information contained herein are subject to change without prior notice

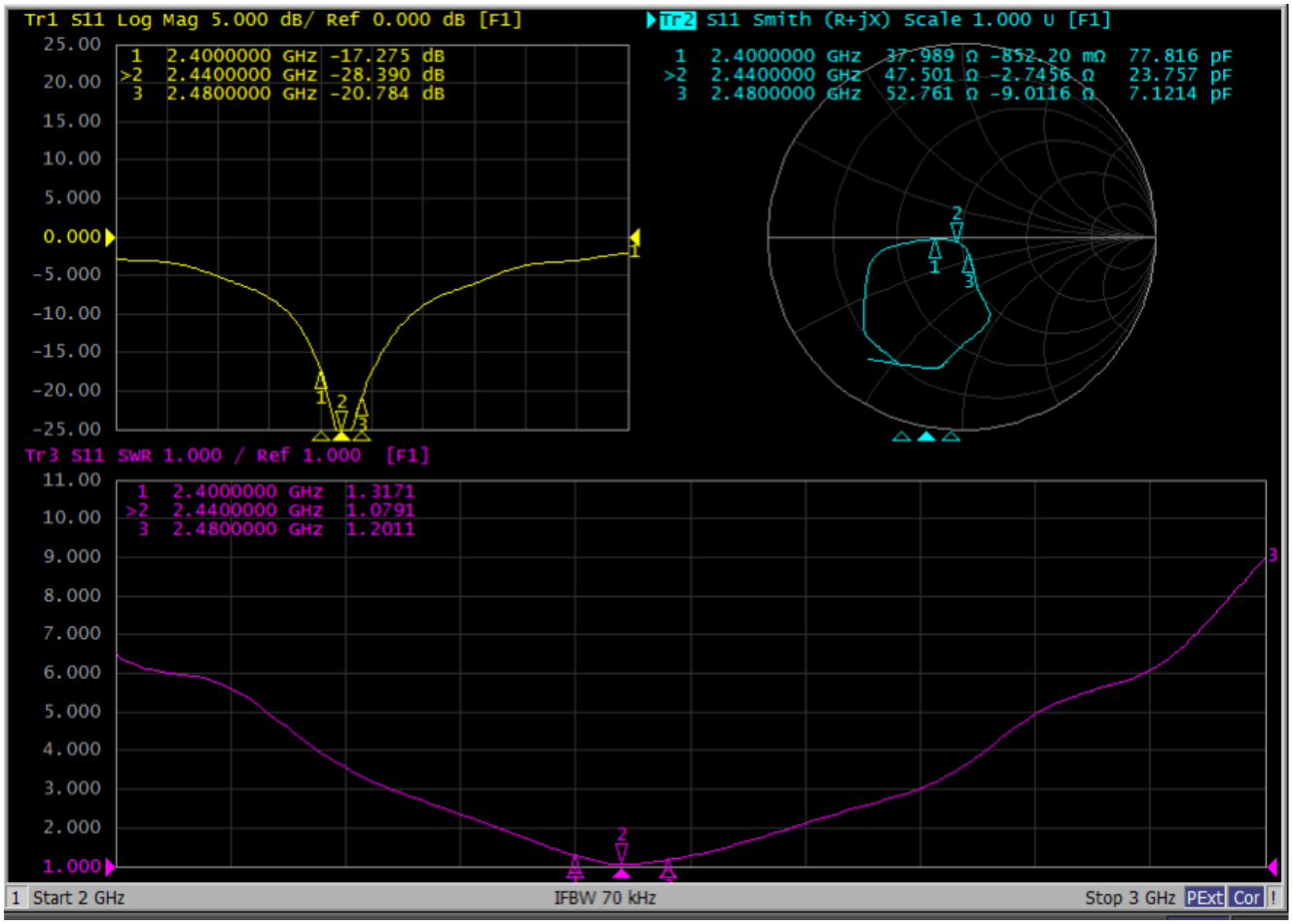
Antenna Layout on the system board

Antenna Gain

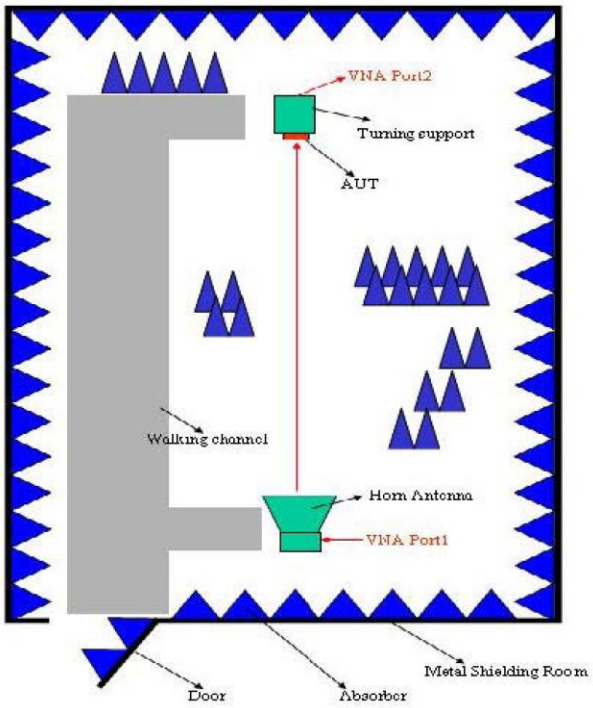
Gain Table

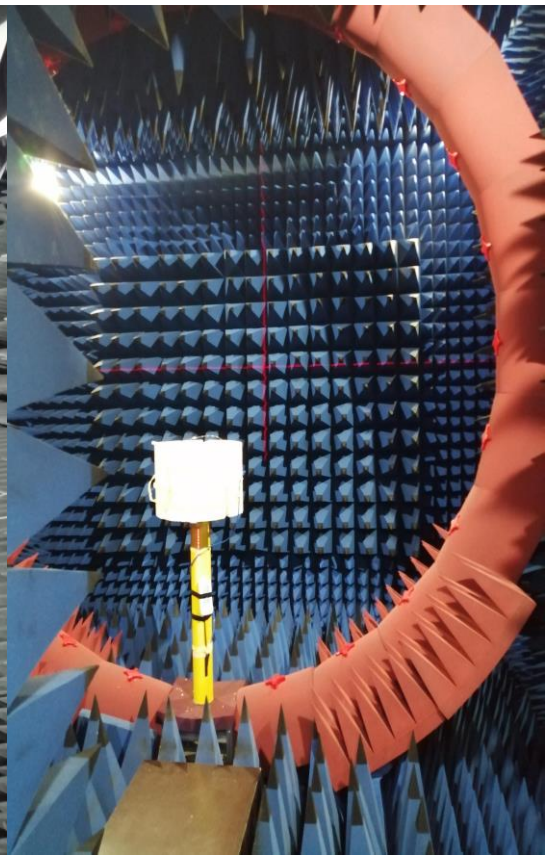
Unit in dBi	XY-plane	YZ-plane	XZ-plane
	Peak	Peak	Peak
2400MHz	-0.45	0.02	0.04
2440MHz	-0.02	0.10	0.64
2480MHz	-0.14	-0.95	0.46

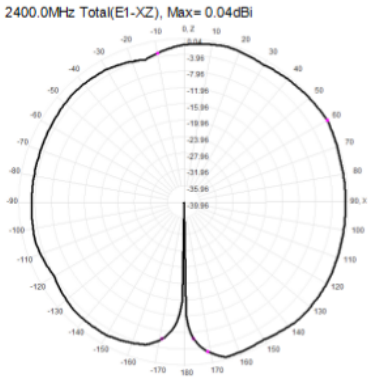
Return Loss

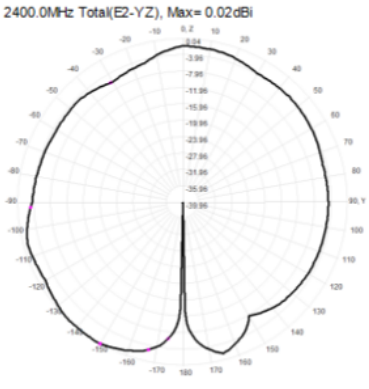

Tr1 S11 Log Mag 5.000 dB/ Ref 0.000 dB [F1]
1 2.4000000 GHz -17.275 dB
>2 2.4400000 GHz -28.390 dB
3 2.4800000 GHz -20.784 dB
25.00
20.00
15.00
10.00
5.000
0.000
-5.000
-10.00
-15.00
-20.00
-25.00
Tr2 S11 Smith (R+jX) Scale 1.000 U [F1]
1 2.4000000 GHz 37.989 Ω -852.20 mΩ 77.816 pF
>2 2.4400000 GHz 47.501 Ω -2.7456 Ω 23.757 pF
3 2.4800000 GHz 52.761 Ω -9.0116 Ω 7.1214 pF
Tr3 S11 SWR 1.000 / Ref 1.000 [F1]
1 2.4000000 GHz 1.3171
>2 2.4400000 GHz 1.0791
3 2.4800000 GHz 1.2011
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Start 2 GHz
IFBW 70 kHz
Stop 3 GHz
PExt
Cor

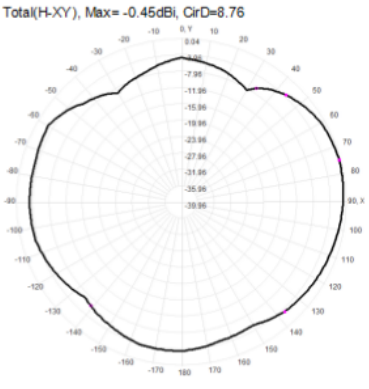
The Environment of Antenna Radiation Pattern



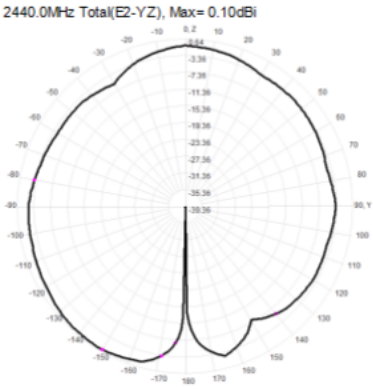


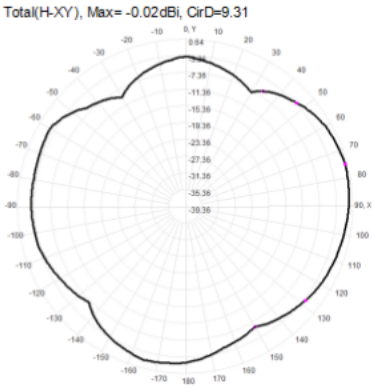

2400.0MHz Total(E1-XZ), Max= 0.04dBi

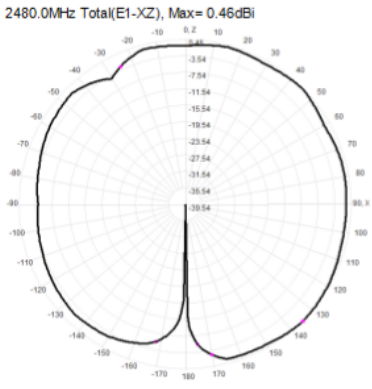

2400.0MHz Total(E2-YZ), Max= 0.02dBi

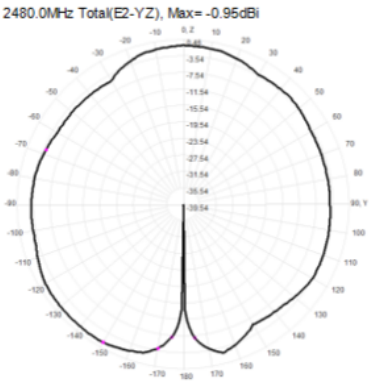

Total(H-XY), Max= -0.45dBi, CirD=8.76

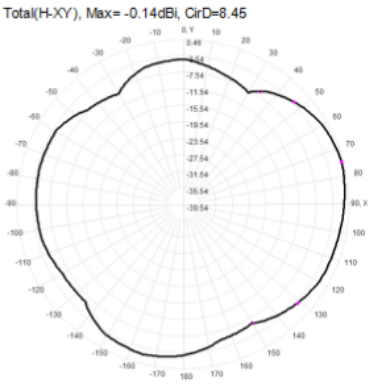
2440.0MHz Total(E1-XZ), Max= 0.64dBi


2440.0MHz Total(E2-YZ), Max= 0.10dBi


Total(H-XY), Max= -0.02dBi, CirD=9.31


2480.0MHz Total(E1-XZ), Max= 0.46dBi


2480.0MHz Total(E2-YZ), Max= -0.95dBi


Total(H-XY), Max= -0.14dBi, CirD=8.45