

Bluetooth Antenna Specification

2006.7.6
FUJITSU Limited

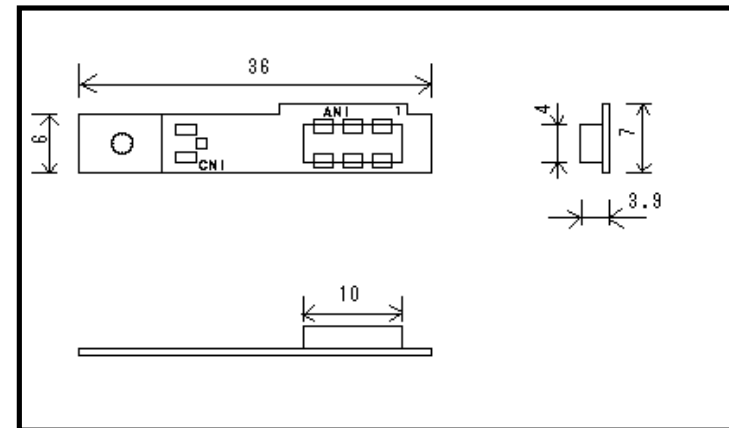
■Model: CP302615

■Antenna Type: Inverted F

■Appearance:



■Dimention:



■Features:

Impedance	50Ω
Frequency Band	2400~2500MHz

■MAX Gain: 0.97 dBi

■VSWR: 1.4340

To : FUJITSU LIMITED

Application : For Bluetooth

Measurement Institution : Yokowo No.3 Radio Measuring Site

Antenna Model : YCE-5250(250L00273)

Date : 2006/06/30

Measurement Condition : Falcon B-Unit Disp.-Open

Measured by : M.Matsuzaki

Antenna Matching : Non

Correction of Cable Loss : Non (include Loss 0.55dB)

f=2400MHz

Plane	Tx	Peak. Gain [dBi]	Avg. Gain [dBi]	Tx H & V Avg. [dBi]	Each Freq. Avg. [dBi]
X-Y	Horizontal	0.70	-4.85	-6.10	-6.57
	Vertical	-2.17	-7.86		
Z-Y	Horizontal	-0.22	-5.59	-5.42	
	Vertical	-1.75	-5.26		
Z-X	Horizontal	-5.22	-12.41	-8.90	
	Vertical	-1.91	-6.99		

X-Y Plane All Avg. (All Freq.)	-6.2 dBi
Z-Y Plane All Avg. (All Freq.)	-6.5 dBi
Z-X Plane All Avg. (All Freq.)	-8.0 dBi
All Plane & All Freq. Avg.	-6.8 dBi

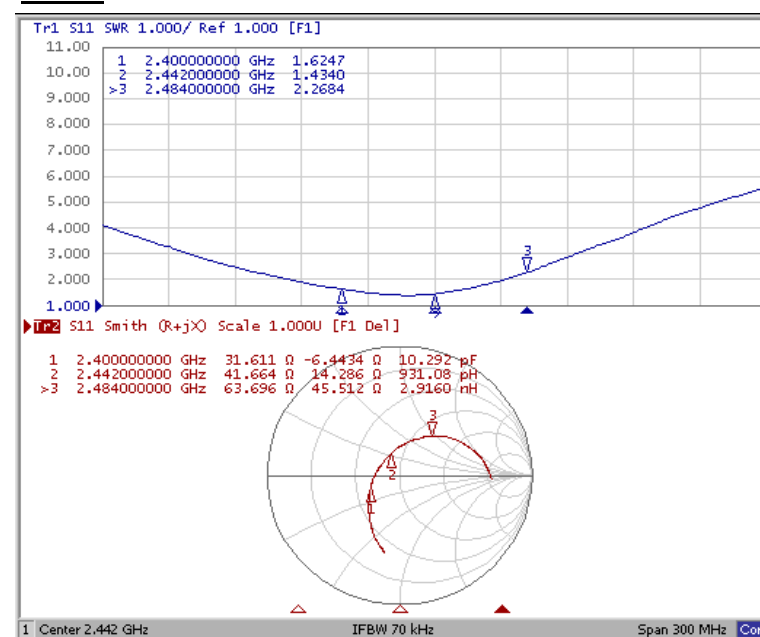
f=2442MHz

Plane	Tx	Peak. Gain [dBi]	Avg. Gain [dBi]	Tx H & V Avg. [dBi]	Each Freq. Avg. [dBi]
X-Y	Horizontal	0.97	-4.65	-5.71	-6.46
	Vertical	-2.38	-7.11		
Z-Y	Horizontal	-2.20	-6.89	-6.57	
	Vertical	-3.23	-6.27		
Z-X	Horizontal	-5.29	-11.98	-7.25	
	Vertical	-1.14	-5.04		

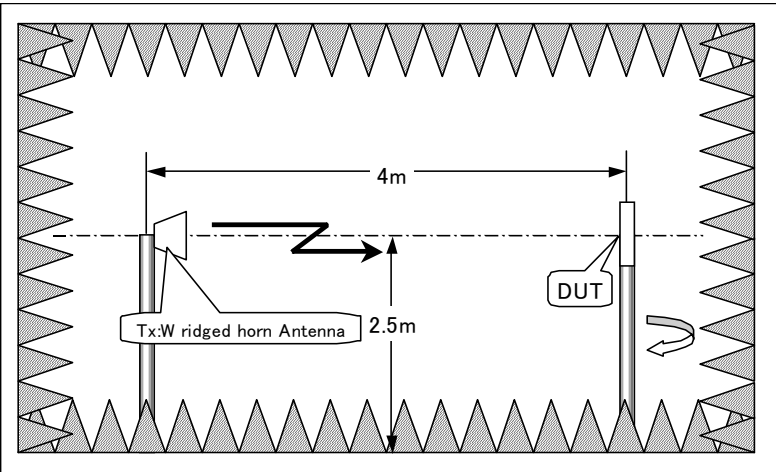
f=2484MHz

Plane	Tx	Peak. Gain [dBi]	Avg. Gain [dBi]	Tx H & V Avg. [dBi]	Each Freq. Avg. [dBi]
X-Y	Horizontal	-0.33	-6.15	-6.93	-7.60
	Vertical	-3.37	-7.89		
Z-Y	Horizontal	-3.09	-8.75	-8.01	
	Vertical	-4.34	-7.38		
Z-X	Horizontal	-4.62	-12.49	-7.95	
	Vertical	-1.92	-5.78		

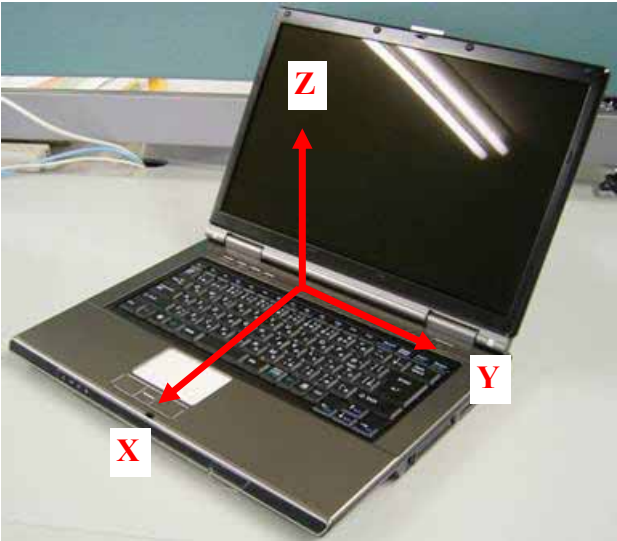
VSWR



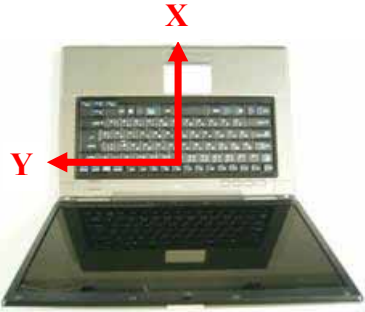
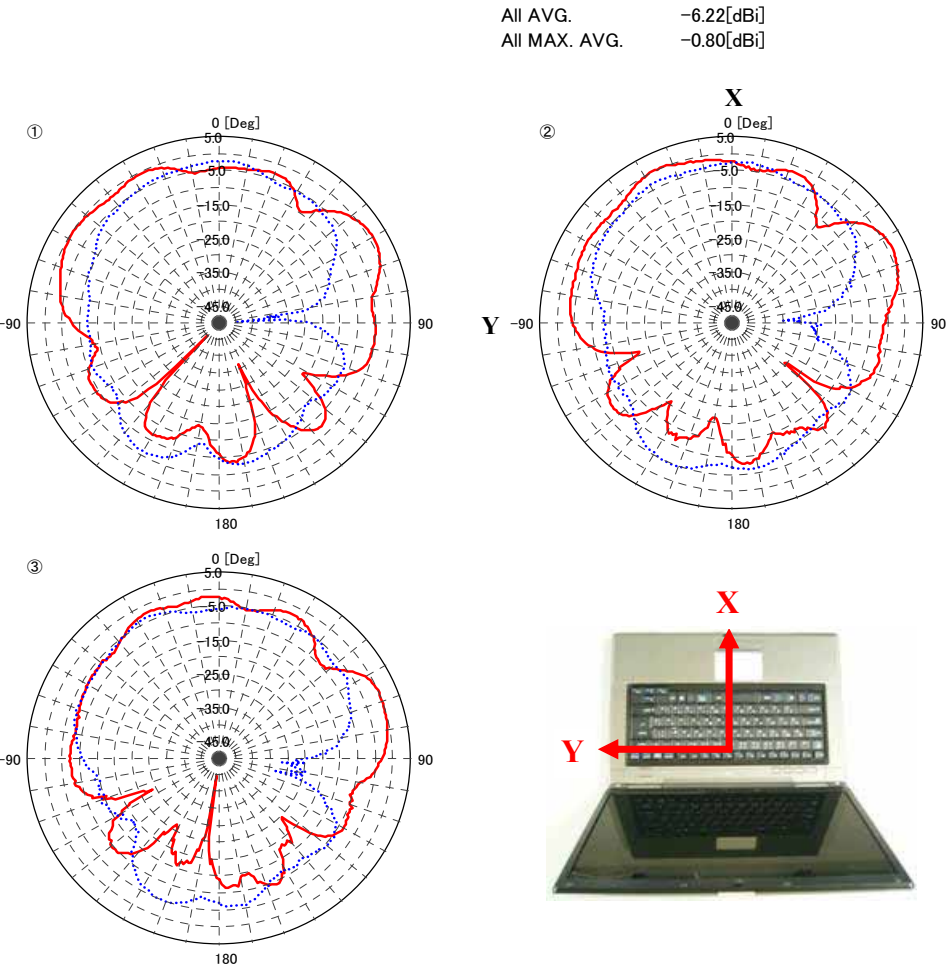
Measurement Condition



Antenna Coordinated



Field Pattern X-Y Plane



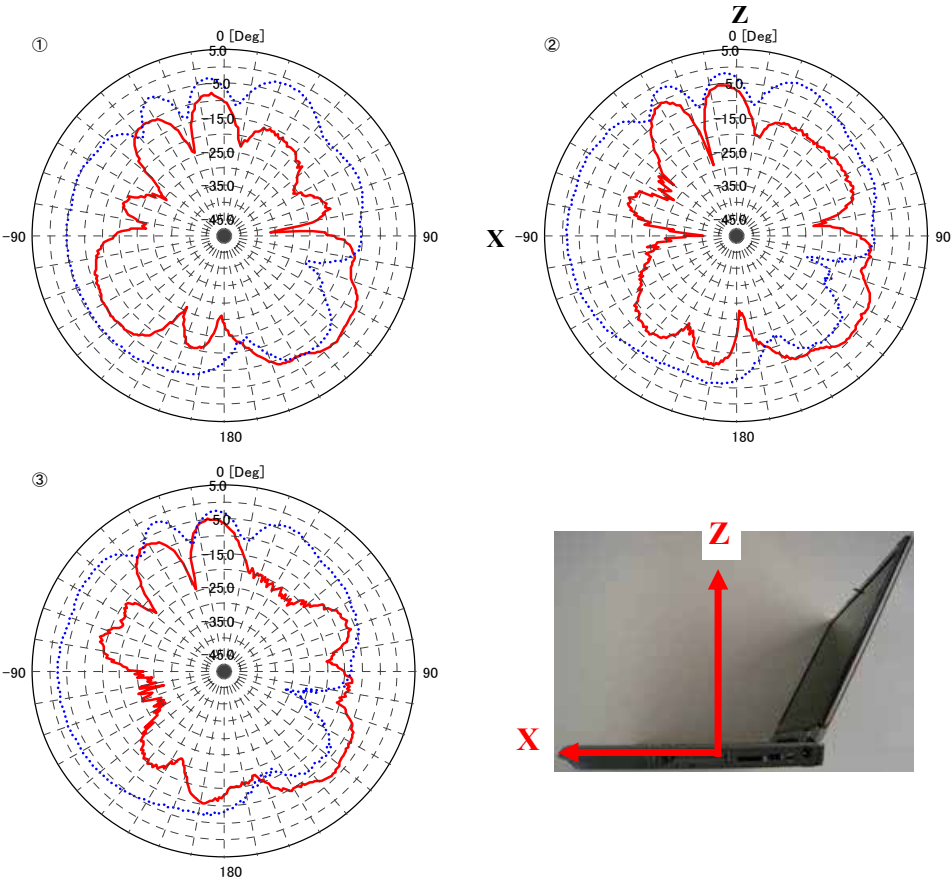
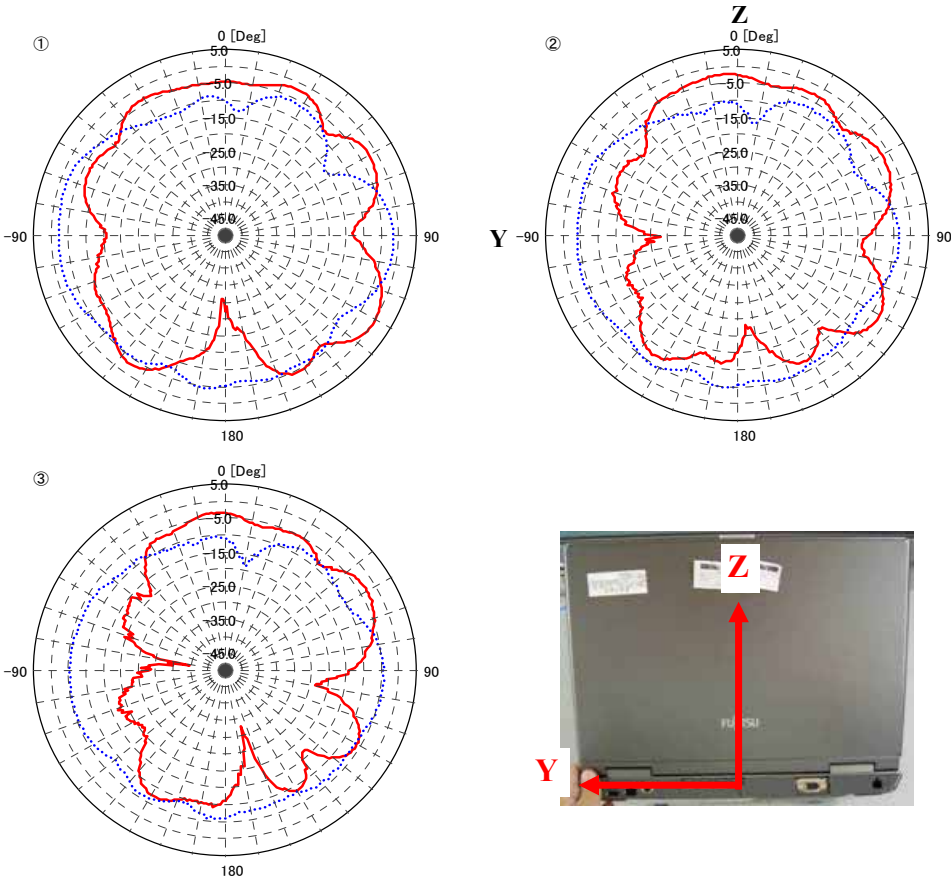
	Line	No.	Frequency[MHz]	MEMO		MAX. Gain[dBi]	AVG. Gain[dBi]
1	—————	①	2400.00	Horizontal		0.70	-4.85
2	—————	②	2442.00			0.97	-4.65
3	—————	③	2484.00			-0.33	-6.15
4		①	2400.00	Vertical		-2.17	-7.86
5		②	2442.00			-2.38	-7.11
6		③	2484.00			-3.37	-7.89

Field Pattern Z-Y Plane

All AVG. -6.54[dBi]
All MAX. AVG. -2.27[dBi]

Field Pattern Z-X Plane

All AVG. -7.98[dBi]
All MAX. AVG. -3.02[dBi]



	Line	No.	Frequency[MHz]	MEMO		MAX. Gain[dBi]	AVG. Gain[dBi]
1	—————	①	2400.00	Horizontal		-0.22	-5.59
2	—————	②	2442.00			-2.20	-6.89
3	—————	③	2484.00			-3.09	-8.75
4		①	2400.00	Vertical		-1.75	-5.26
5		②	2442.00			-3.23	-6.27
6		③	2484.00			-4.34	-7.38

	Line	No.	Frequency[MHz]	MEMO		MAX. Gain[dBi]	AVG. Gain[dBi]
1	—————	①	2400.00	Horizontal		-5.22	-12.41
2	—————	②	2442.00			-5.29	-11.98
3	—————	③	2484.00			-4.62	-12.49
4		①	2400.00	Vertical		-1.91	-6.99
5		②	2442.00			-1.14	-5.04
6		③	2484.00			-1.92	-5.78