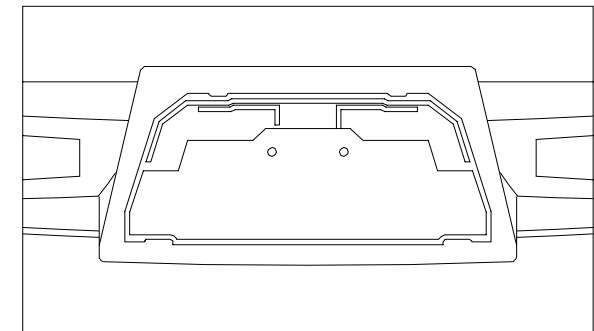
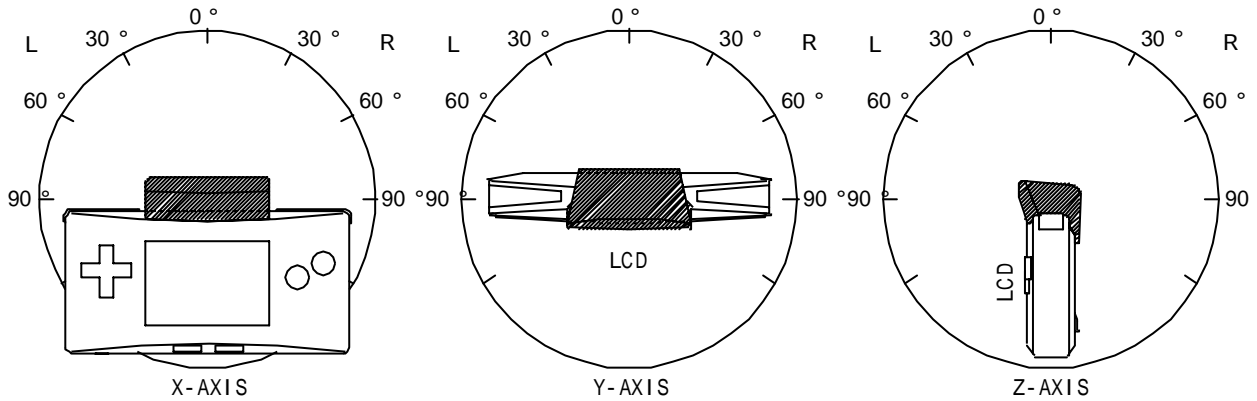


Antenna Gain Measurement Result

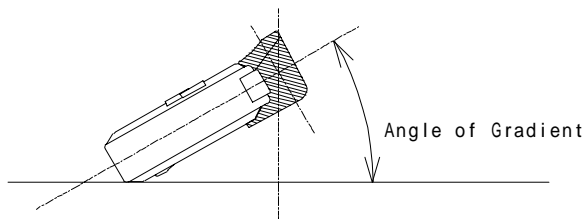
Model:	OXY-004 Antenna
Date:	20.April, 2005
Facilities:	Mitsumi Lab.

Maximum Antenna Gain : -0.1 dBi

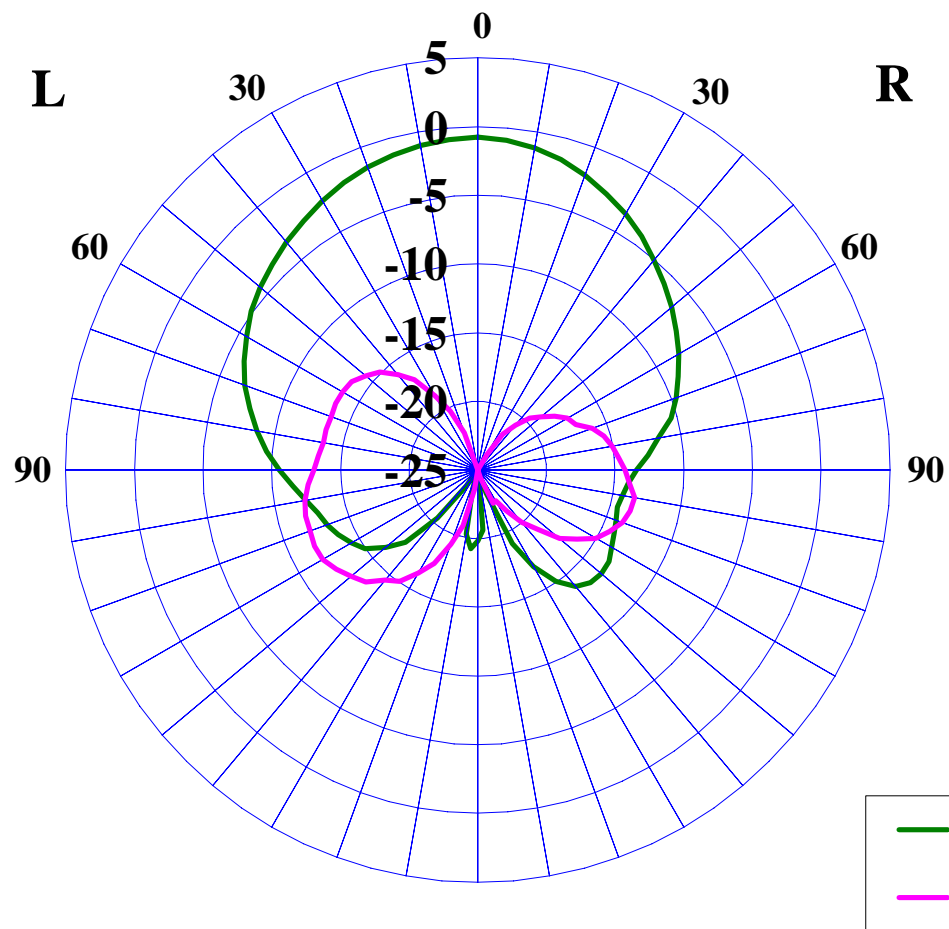
No.	Model	AXIS (Angle of Gradient)	Frequency [MHz]	Polar (H/V)	Maximum Gain		Comment
					Gain[dBi]	Angle[Deg]	
1	OXY-004	X-AXIS	2442	H	-0.8	0	
				V	-11.9	115(L)	
2	OXY-004	Y-AXIS	2442	H	-1.2	5(L)	
				V	-9.7	115(L)	
3	OXY-004	Z-AXIS	2442	H	-0.1	35(R)	Maximum Gain
				V	-21.8	5(L)	
4	OXY-004	X-AXIS (35 deg)	2442	H	-0.1	5(L)	
				V	-15.4	60(L)	



Antenna Pattern Figure



Vertical Radiation Pattern (Passive)

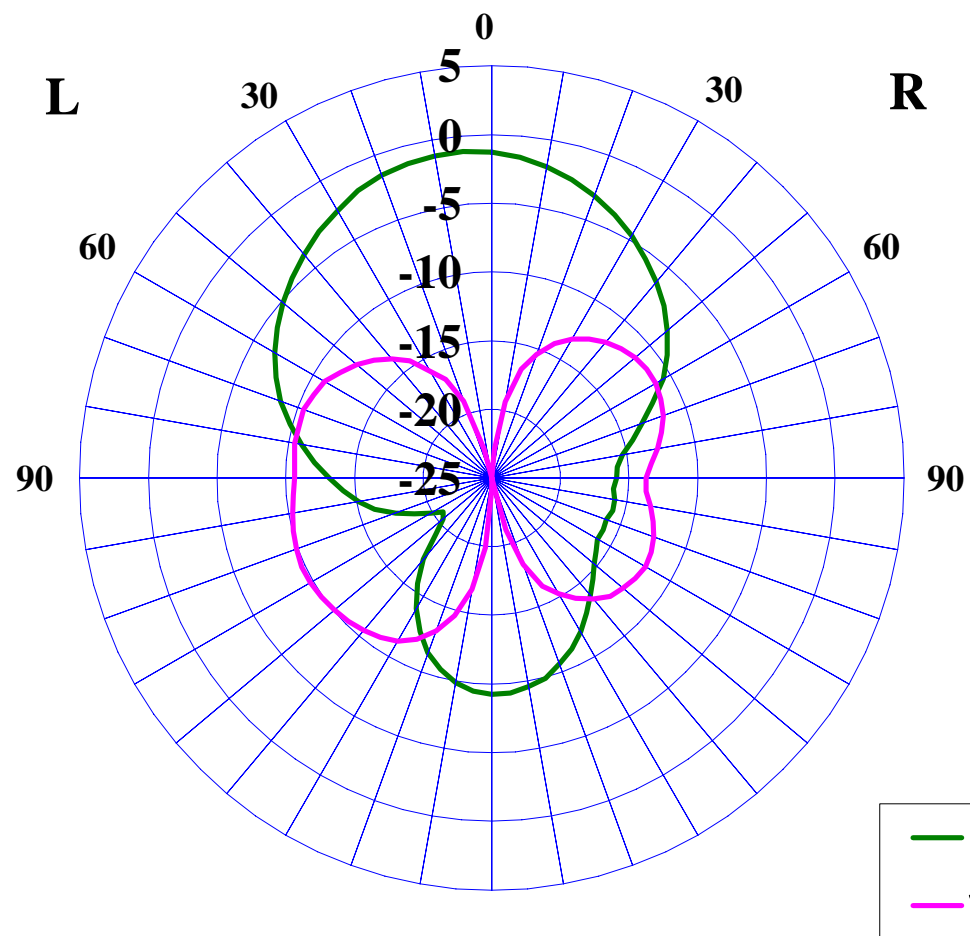


Model:	OXY-004
Axis:	X
Freq:	2.44200GHz

El. Angle (deg)	Horizontal		Vertical	
	Left (dBi)	Right (dBi)	Left (dBi)	Right (dBi)
90	-10.6	-13.5	-13.1	-14.3
85	-9.6	-12.6	-13.4	-14.7
80	-8.7	-11.7	-13.6	-15.1
75	-7.8	-10.4	-13.6	-15.5
70	-7.0	-9.6	-13.6	-16.1
65	-6.2	-8.9	-13.6	-17.1
60	-5.6	-8.1	-13.6	-17.5
55	-4.9	-7.3	-13.8	-18.2
50	-4.3	-6.6	-14.3	-19.0
45	-3.8	-5.8	-14.9	-19.7
40	-3.4	-5.0	-16.0	-20.7
35	-2.9	-4.2	-17.0	-21.9
30	-2.4	-3.5	-18.7	-23.6
25	-1.9	-2.8	-20.3	-26.8
20	-1.6	-2.2	-22.1	-27.2
15	-1.3	-1.6	-25.5	-28.1
10	-1.0	-1.2	-25.7	-42.6
5	-0.9	-0.9	-26.7	-26.8
0	-0.8	-0.8	-27.4	-27.4

MITSUMI ELECTRIC CO.,LTD

Vertical Radiation Pattern (Passive)

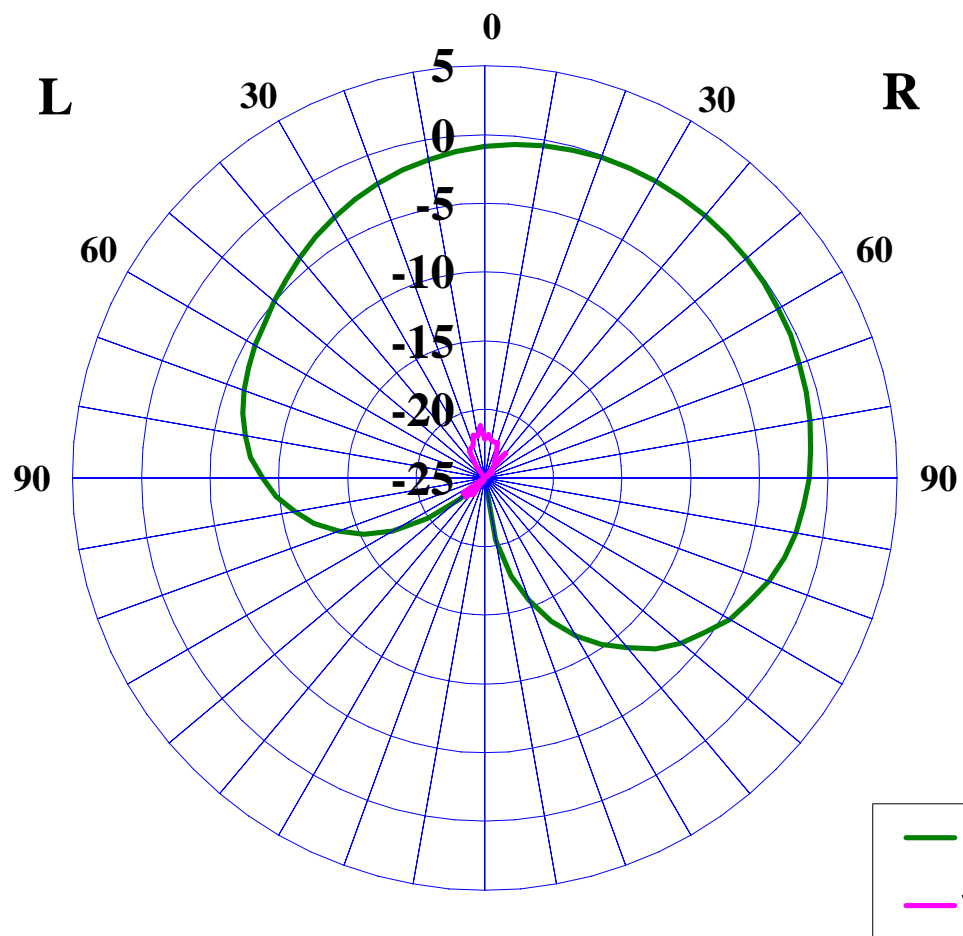


Model:	OXY-004
Axis:	Y
Freq:	2.44200GHz

El. Angle (deg)	Horizontal		Vertical	
	Left (dBi)	Right (dBi)	Left (dBi)	Right (dBi)
90	-13.2	-15.9	-10.6	-13.8
85	-12.0	-15.8	-10.6	-13.4
80	-10.9	-15.3	-10.4	-12.7
75	-9.8	-14.4	-10.5	-12.3
70	-8.6	-13.4	-10.4	-11.7
65	-7.7	-12.1	-10.7	-11.5
60	-6.7	-10.6	-11.0	-11.2
55	-5.9	-9.4	-11.6	-11.2
50	-5.2	-8.3	-12.2	-11.4
45	-4.5	-7.3	-12.9	-11.7
40	-3.7	-6.3	-13.7	-12.1
35	-3.1	-5.5	-14.6	-12.7
30	-2.5	-4.6	-16.0	-13.3
25	-2.0	-3.9	-17.1	-14.2
20	-1.6	-3.1	-19.0	-15.5
15	-1.3	-2.5	-22.8	-16.8
10	-1.2	-2.0	-29.3	-19.4
5	-1.2	-1.6	-30.7	-22.9
0	-1.3	-1.3	-32.2	-32.2

MITSUMI ELECTRIC CO.,LTD

Vertical Radiation Pattern (Passive)

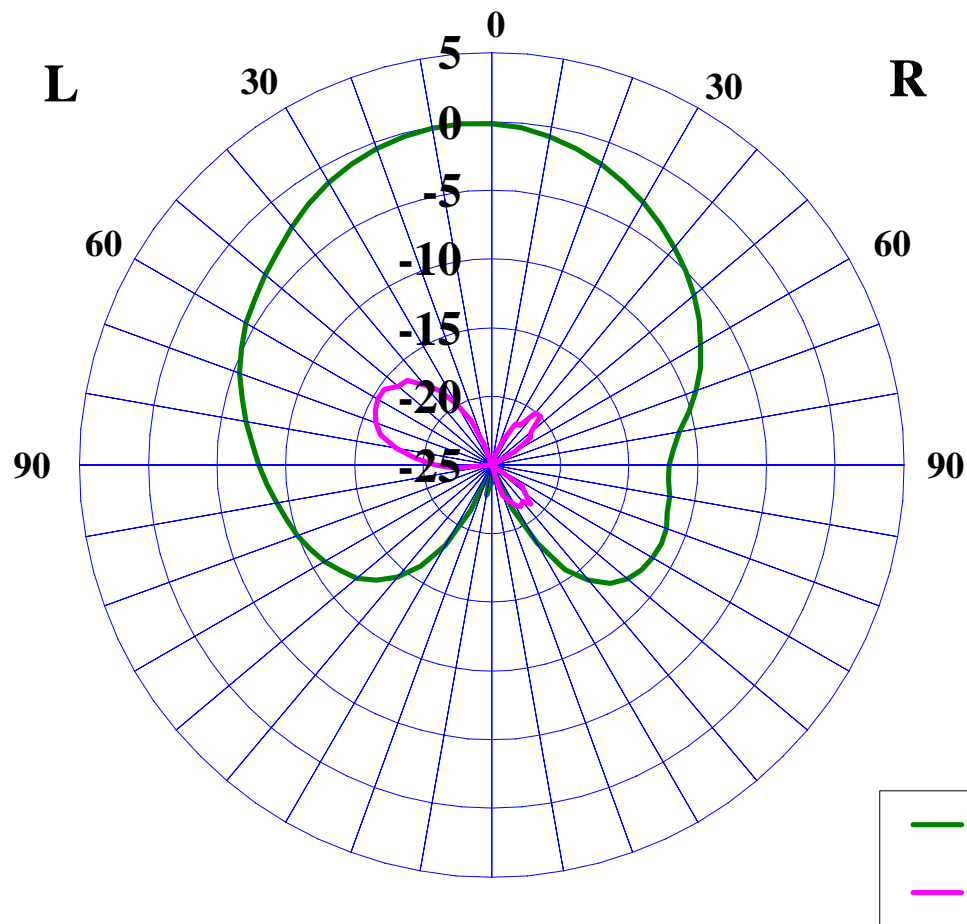


Model:	OXY-004
Axis:	Z
Freq:	2.44200GHz

El. Angle (deg)	Horizontal		Vertical	
	Left (dBi)	Right (dBi)	Left (dBi)	Right (dBi)
90	-8.8	-1.4	-36.4	-33.9
85	-7.9	-1.2	-36.6	-30.7
80	-7.3	-1.0	-33.6	-31.4
75	-6.8	-0.8	-32.8	-28.4
70	-6.4	-0.6	-33.5	-25.8
65	-6.1	-0.5	-41.9	-25.4
60	-5.7	-0.3	-34.1	-26.1
55	-5.4	-0.2	-32.7	-24.3
50	-4.9	-0.1	-32.6	-24.7
45	-4.5	-0.1	-28.5	-25.1
40	-4.1	-0.1	-24.8	-22.6
35	-3.6	-0.1	-24.0	-23.7
30	-3.1	-0.1	-22.8	-23.7
25	-2.7	-0.1	-22.6	-23.0
20	-2.2	-0.2	-22.5	-22.3
15	-1.8	-0.3	-21.8	-22.3
10	-1.5	-0.4	-21.9	-22.2
5	-1.2	-0.6	-21.2	-21.8
0	-0.9	-0.9	-22.1	-22.1

MITSUMI ELECTRIC CO.,LTD

Virtual Radiation Pattern (Passive)



Model:	OXY-004
Axis:	X Angle=35deg.
Freq:	2.44200GHz

El. Angle (deg)	Horizontal		Vertical	
	Left (dBi)	Right (dBi)	Left (dBi)	Right (dBi)
90	-8.0	-12.1	-20.9	-28.4
85	-7.5	-11.7	-19.5	-27.0
80	-6.8	-11.1	-17.9	-30.8
75	-6.2	-10.2	-16.6	-31.3
70	-5.5	-9.2	-16.0	-31.5
65	-4.9	-8.2	-15.7	-26.4
60	-4.4	-7.5	-15.4	-23.1
55	-3.9	-6.5	-15.5	-21.6
50	-3.5	-5.8	-16.1	-21.3
45	-3.0	-5.0	-16.3	-20.0
40	-2.4	-4.3	-17.4	-20.1
35	-1.8	-3.6	-18.4	-21.4
30	-1.3	-3.0	-19.9	-21.6
25	-0.8	-2.3	-21.5	-23.0
20	-0.5	-1.7	-23.4	-24.3
15	-0.2	-1.2	-26.2	-25.2
10	-0.1	-0.7	-30.8	-28.4
5	-0.1	-0.4	-31.3	-28.1
0	-0.2	-0.2	-28.2	-28.2

MITSUMI ELECTRIC CO.,LTD