

Antenna Test report

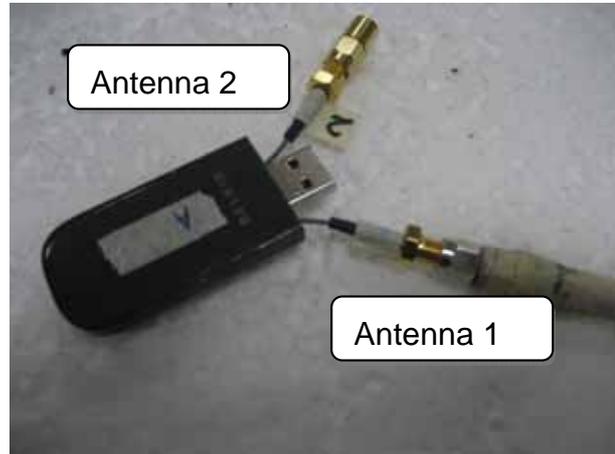
V1.00

(CASE A)

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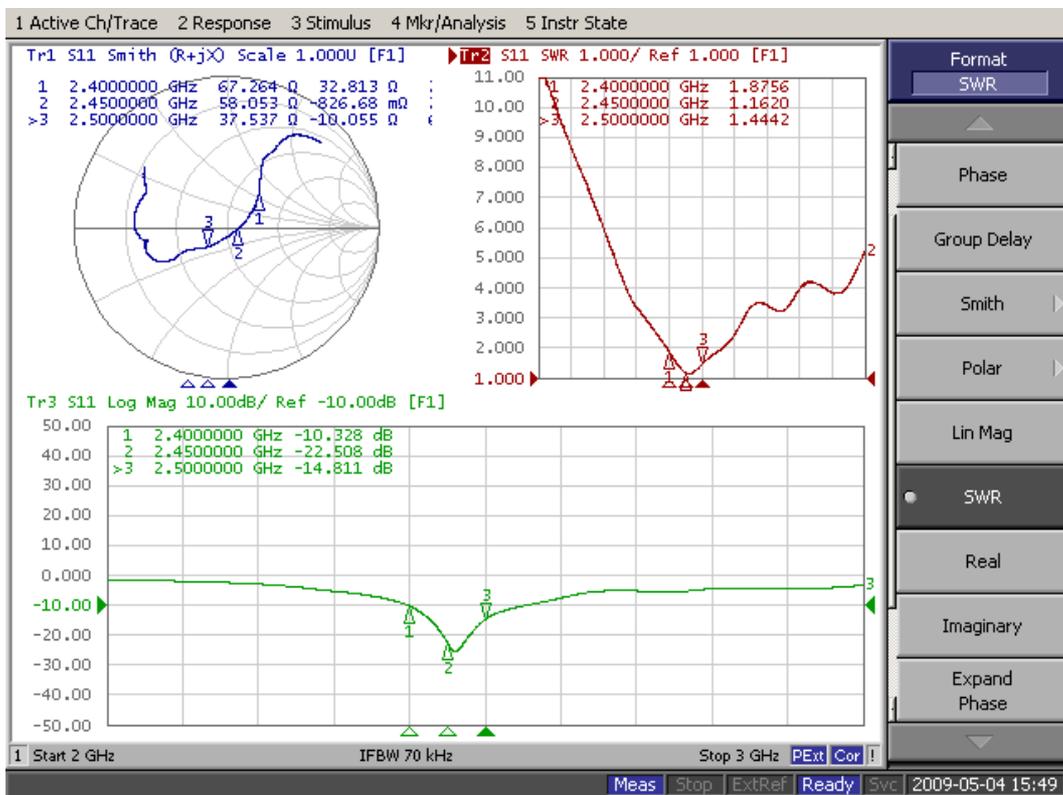
1. Network Analyzer Measurement

1.1 Test Environment

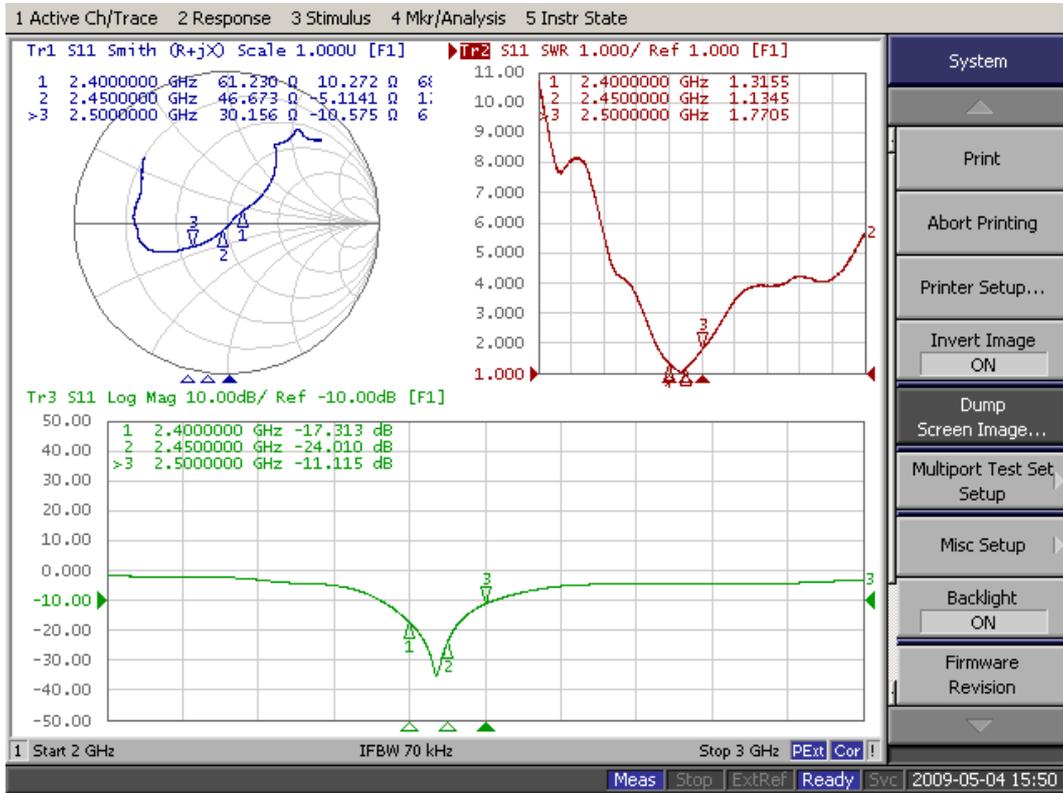


1.2 S11 Test Result

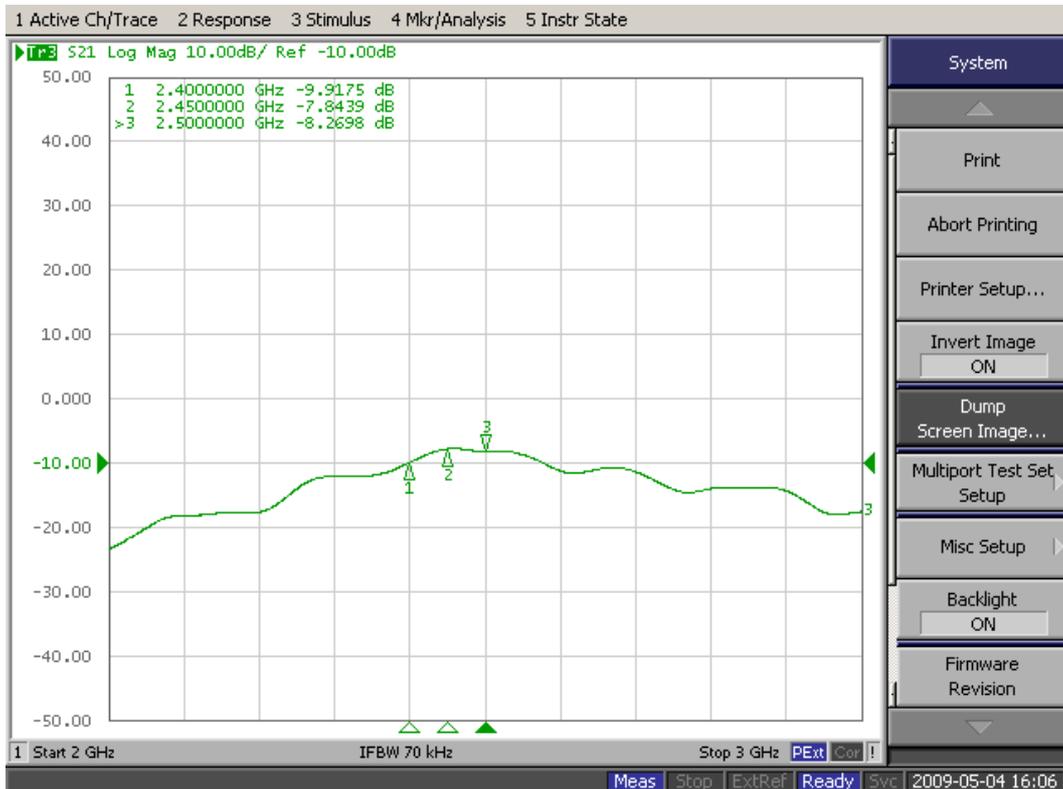
Antenna 1



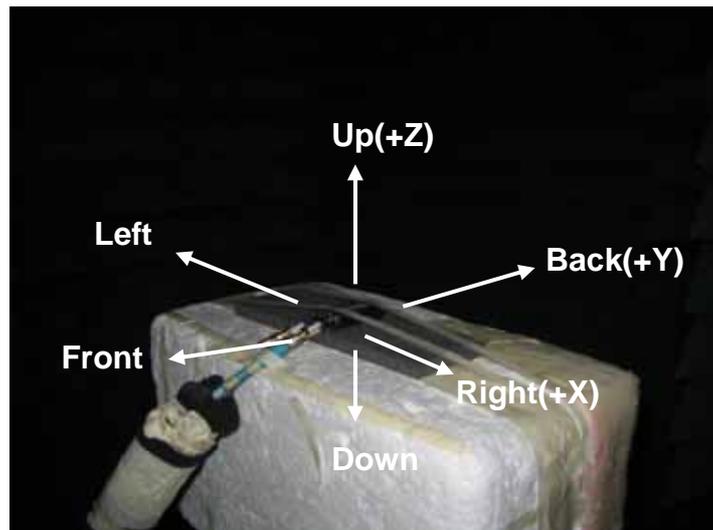
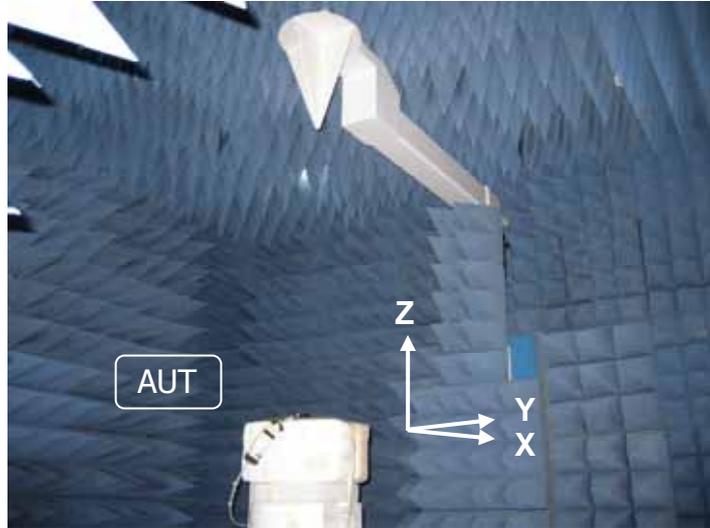
Antenna 2



1.3 Isolation test results



2. Gain & Patterns test results
2.1 Measurement setting



	XY	YZ	XZ
0°	Right	Up	Up
90°	Back	Back	Right
180°	Left	Down	Down
270°	Front	Front	Left

	θ	ϕ
Total angle	175°	360°
How many angle scan one point	5°	5°
Total scan point	36	73

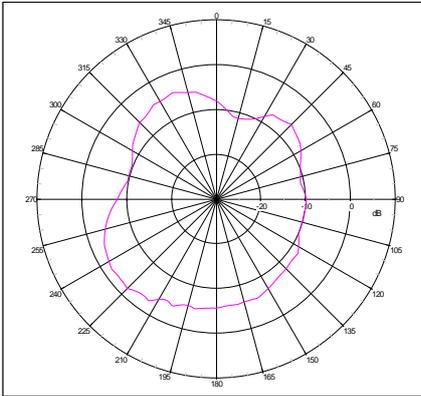
2.2 2D patterns

2.2.1 Antenna 1

2.4GHz

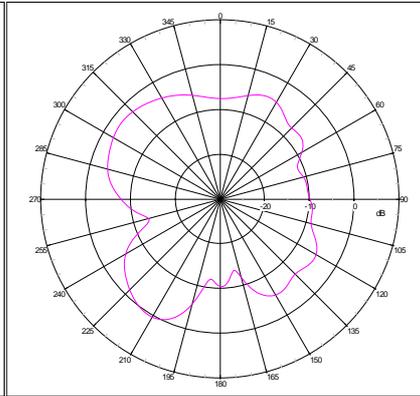
X-Y Plane

Far-field Power Distribution on X-Y Plane



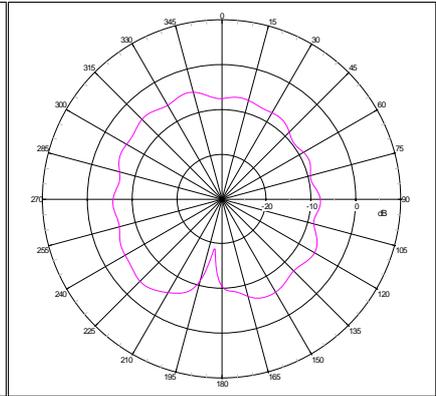
Y-Z Plane

Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)



X-Z Plane

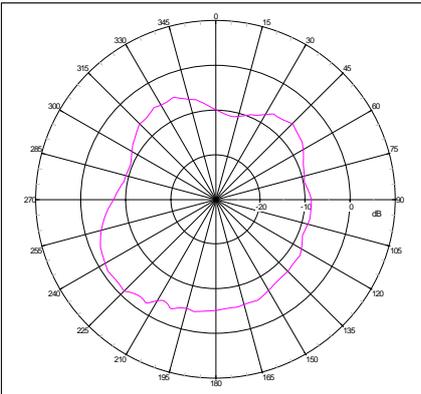
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)



2.45GHz

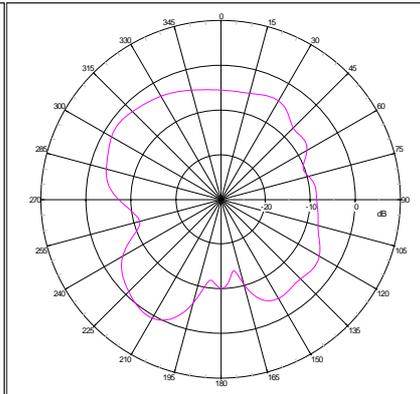
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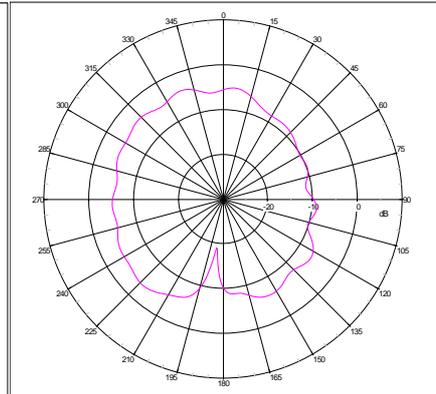
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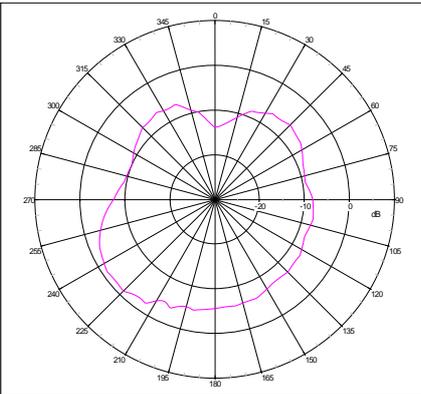
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)



2.5GHz

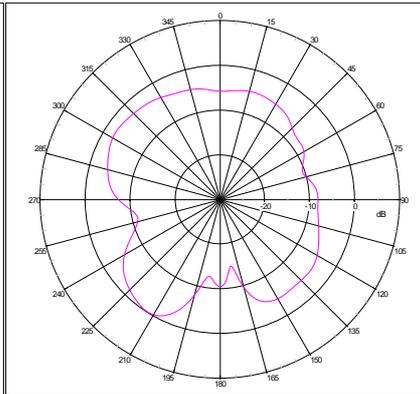
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Far-field Power Distribution on X-Y Plane



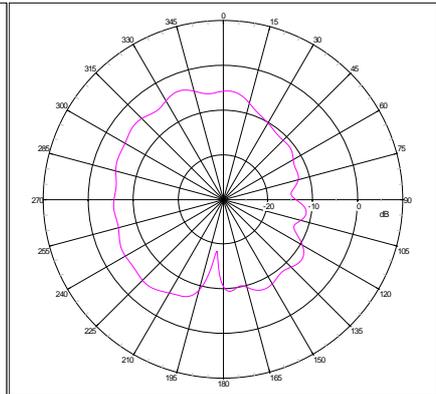
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Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)



X-Z Plane

Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)

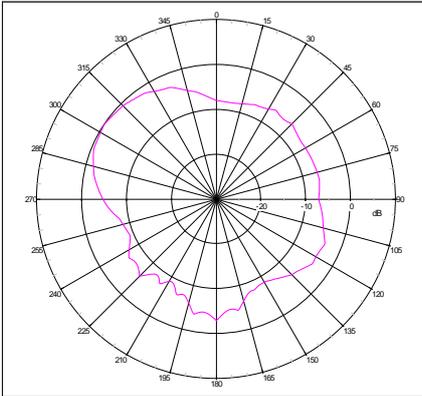


2.2.2 Antenna 2

2.4GHz

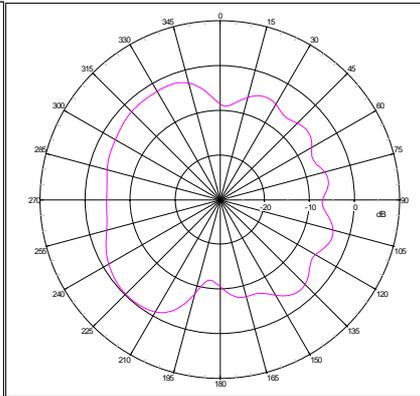
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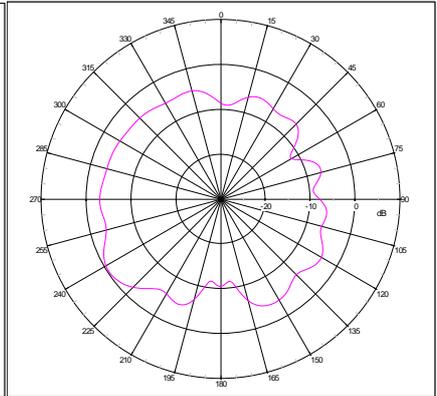
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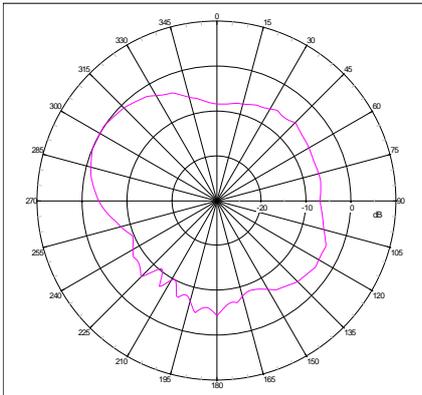
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)



2.45GHz

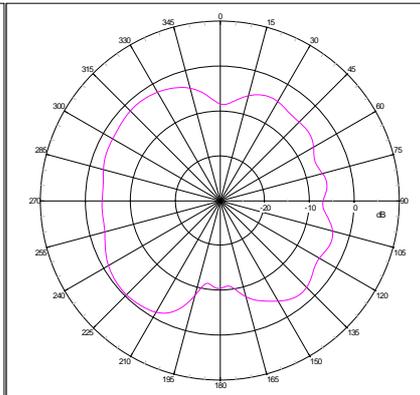
X-Y Plane

Far-field Power Distribution on X-Y Plane



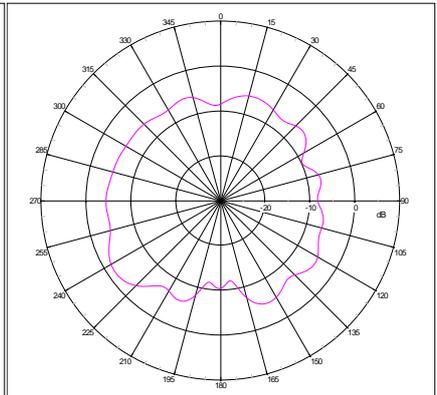
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Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)



X-Z Plane

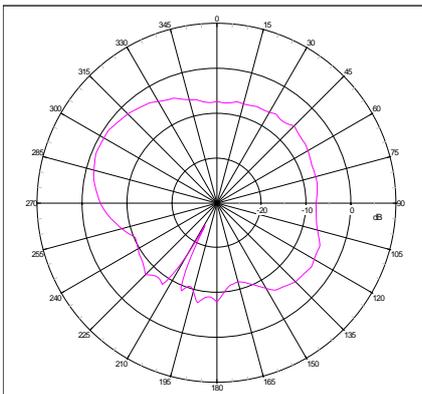
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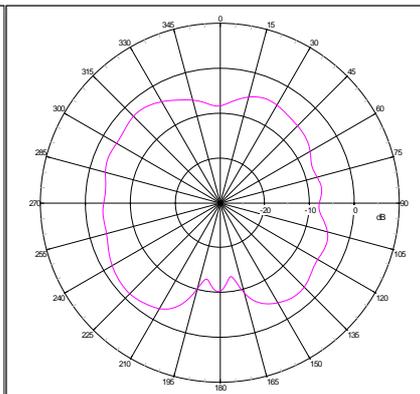
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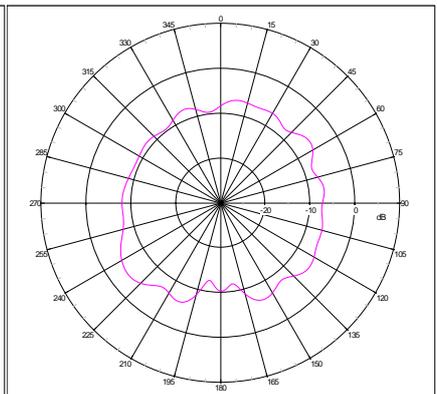
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X-Z Plane

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3. Summary

3.1 Return Loss

Frequency	Antenna 1 (dB)	Antenna 2 (dB)
2.4GHz	-10.3	-17.3
2.45GHz	-22.5	-24.0
2.5GHz	-14.8	-11.1

3.2 Isolation

Frequency	Antenna 1 to Antenna 2 (dB)
2.4GHz	-9.9
2.45GHz	-7.8
2.5GHz	-8.3

3.33D total Peak Gain

Frequency	Antenna 1 (dBi)	Antenna 2 (dBi)
2.4GHz	0.05	-0.25
2.45GHz	0.34	-0.15
2.5GHz	0.27	-1.05