Report for Bluetooth

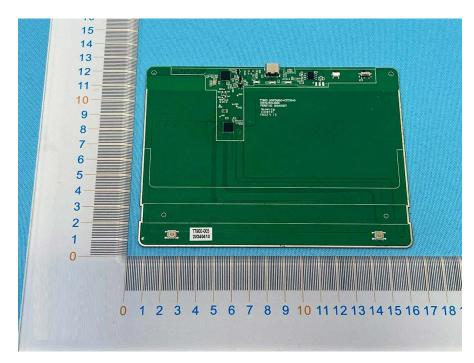
By Alfred Grau

Shenzhen Haiqi electronic Technology Co., LTD

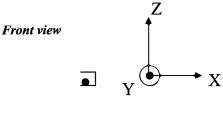
Tested Products.

- Antenna 1: integrated antenna.
 - Frequency = 2.402GHz.
 - Frequency = 2.441GHz.
 - Frequency = 2.480GHz.
- Antenna Gain: 1.87dBi

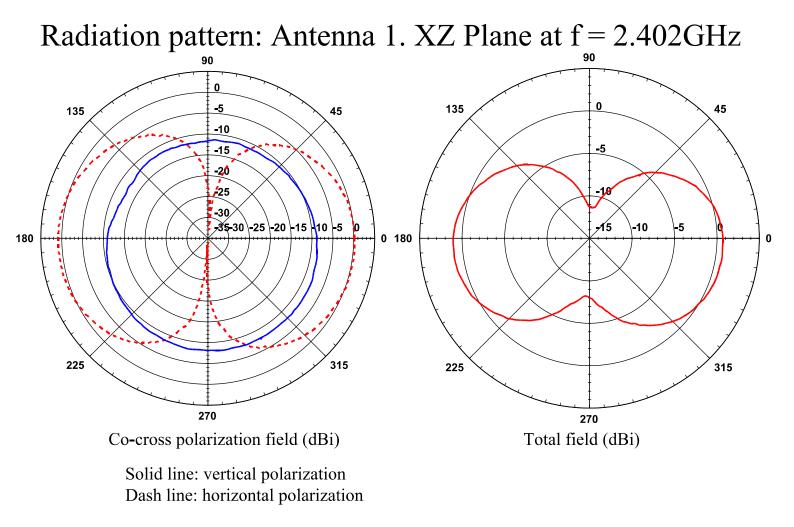
Coordinate System Reference: Antenna 1.

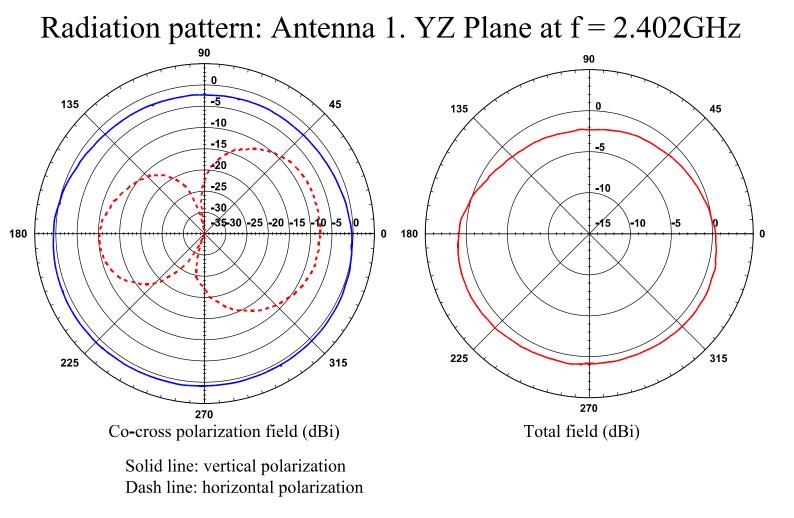


Side view

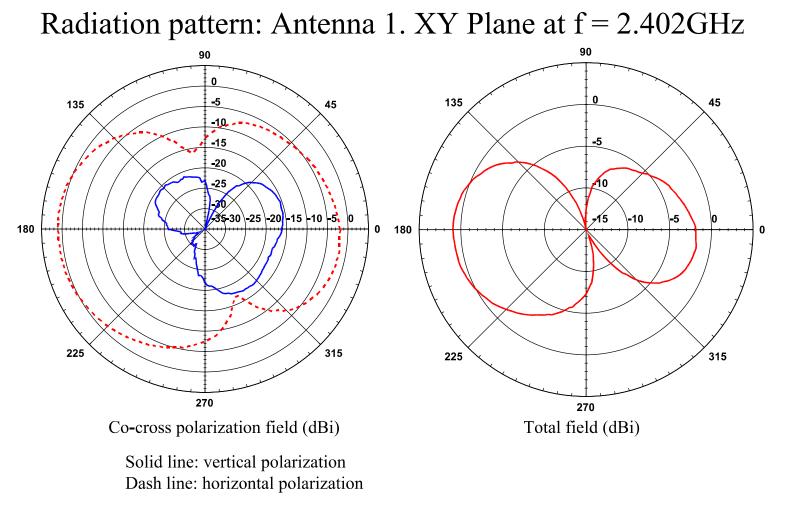


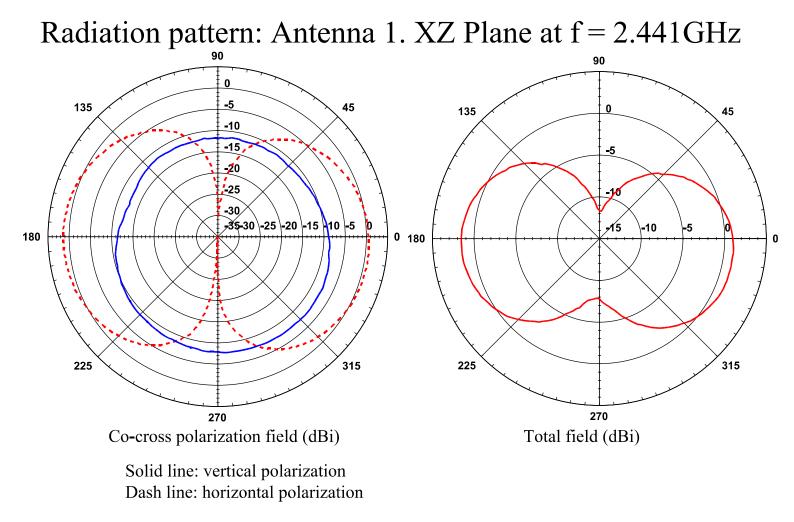
Rear view

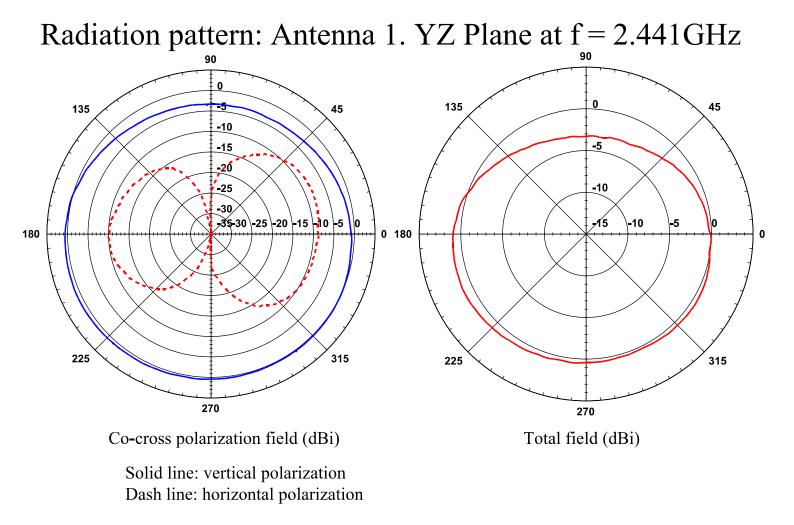


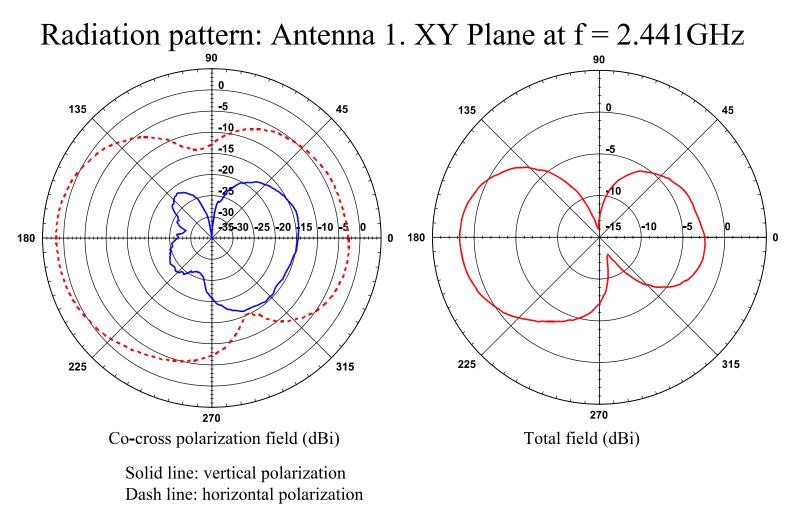


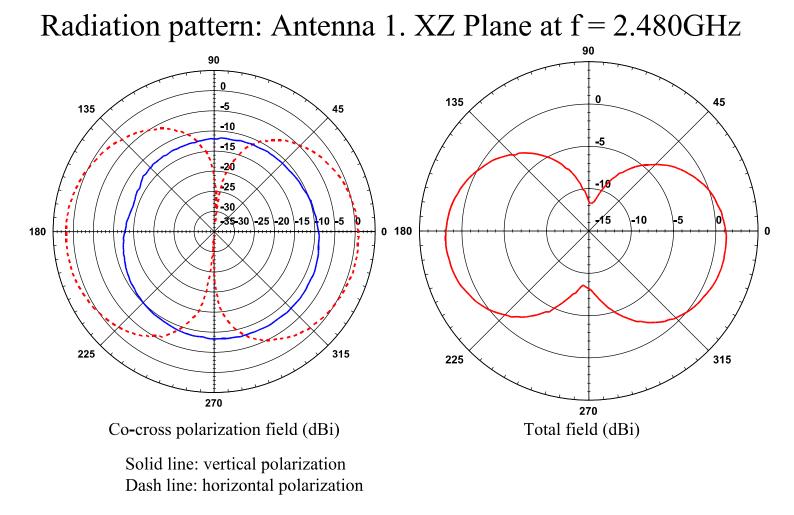
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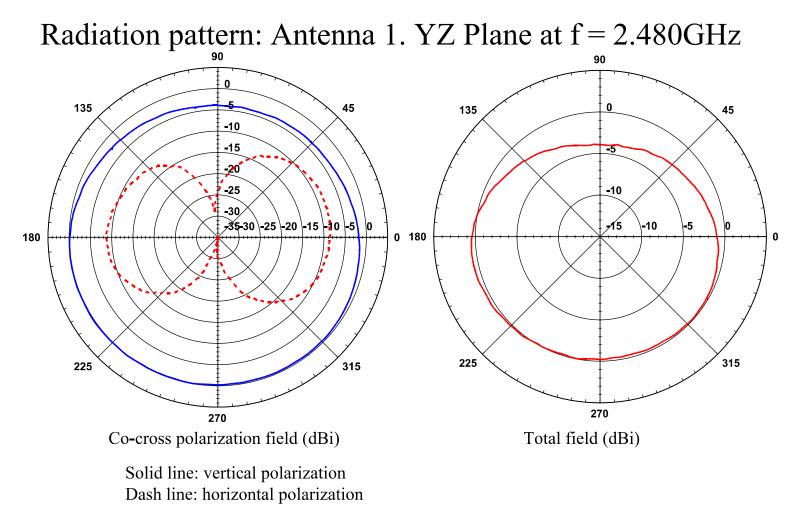


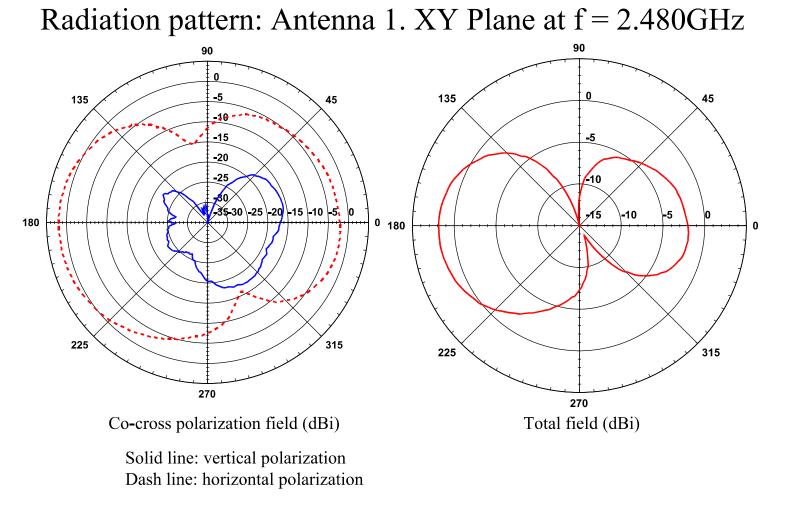


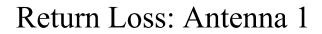


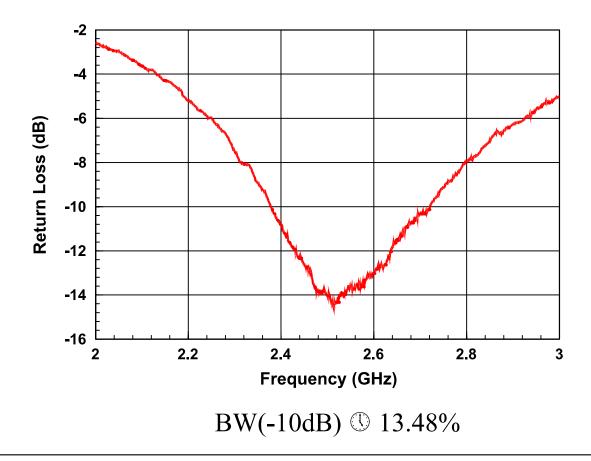


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Measurements summary

	Frequency (GHz)	Plane	Return Loss (dB)	Polarization	Gain max. (dBi)	θ for Gain max.	φ for Gain max.
Antenna 1							
	2.402	XZ	-10.90	Vertica	-7.8	290	
	2.402	XZ	-10.90	Horizonta	0.786	182	
	2.402	ΥZ	-10.90	Vertica	1.21	226	
	2.402	ΥZ	-10.90	Horizonta	-7.75	10	
	2.402	XY	-10.90	Vertica	- 15.4		20
	2.402	XY	-10.90	Horizonta	0.93		180
	2.441	XZ	-12.20	Vertica	-7.36	318	
	2.441	XZ	-12.20	Horizonta	1.32	180	
	2.441	ΥZ	-12.20	Vertica	0.981	204	
	2.441	ΥZ	-12.20	Horizonta	-8.23	24	
	2.441	XY	-12.20	Vertica	-14.1		-14
	2.441	XY	-12.20	Horizonta	1.74		180
	2.48	XZ	-13.80	Vertica	-7.95	312	
	2.48	XZ	-13.80	Horizonta	1.81	186	
	2.48	ΥZ	-13.80	Vertica	0.204	214	
	2.48	ΥZ	-13.80	Horizonta	-8.38	8	
	2.48	XY	-13.80	Vertica	-15.8		12
	2.48	XY	-13.80	Horizonta	1.87		180