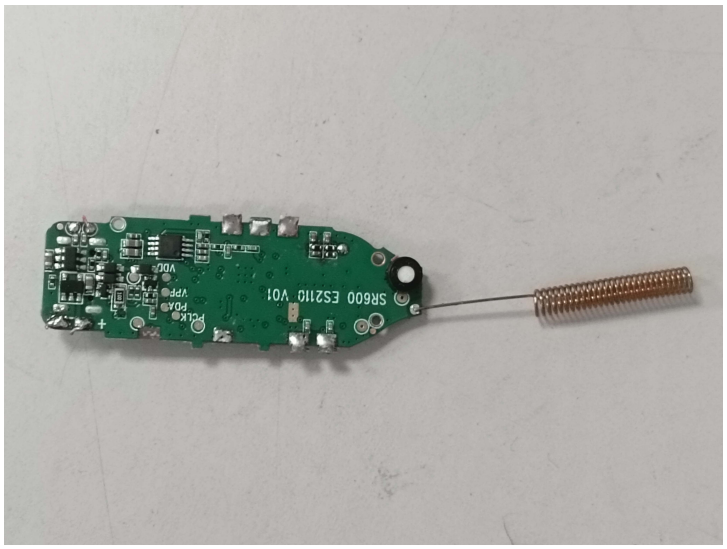
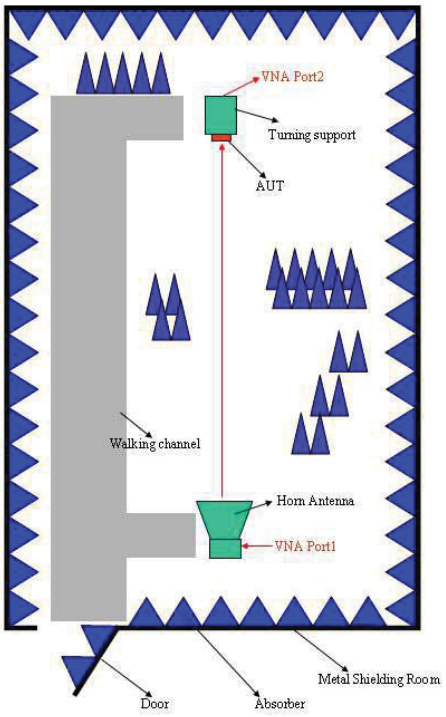
Antenna specification

1. Antenna Describe

Antenna plate	Spring antenna
Model Name	AF11
Antenna Gain	1.87(Peak gain) dBi
Frequency Rang	462-468MHz
Company Name	Shenzhen Cient Communication Technology Co.,ltd.
Size:	50mm length



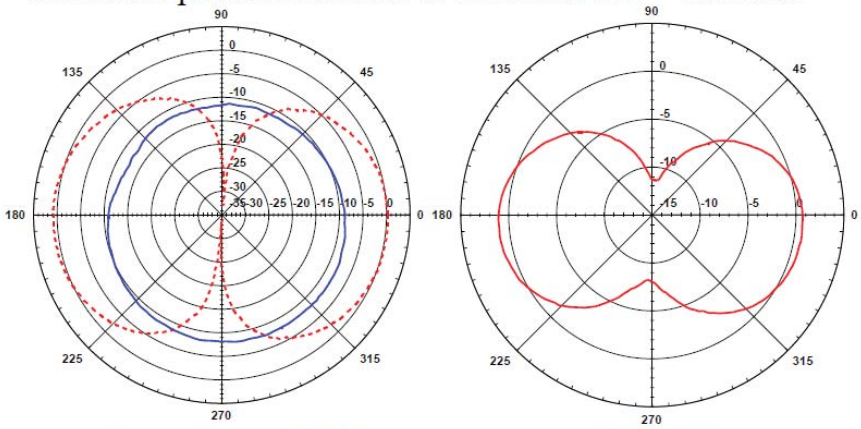
2. Test-up Diagram



3. Antenna Radiation Pattern

Frequency (MHz)	Plane	Return Loss (dB)	Polarization	Gain max. (dBi)	θ for Gain max.	φ for Gain max.
462	XZ	-10.90	Vertical	-7.8	290	
462	XZ	-10.90	Horizontal	0.786	182	
462	YZ	-10.90	Vertical	1.21	226	
462	YZ	-10.90	Horizontal	-7.75	10	
462	XY	-10.90	Vertical	-15.4		20
462	XY	-10.90	Horizontal	0.93		180
465	XZ	-12.20	Vertical	-7.36	318	
465	XZ	-12.20	Horizontal	1.32	180	
465	YZ	-12.20	Vertical	0.981	204	
465	YZ	-12.20	Horizontal	-8.23	24	
465	XY	-12.20	Vertical	-14.1		-14
465	XY	-12.20	Horizontal	1.74		180
468	XZ	-13.80	Vertical	-7.95	312	
468	XZ	-13.80	Horizontal	1.81	186	
468	YZ	-13.80	Vertical	0.204	214	
468	YZ	-13.80	Horizontal	-8.38	8	
468	XY	-13.80	Vertical	-15.8		12
468	XY	-13.80	Horizontal	1.87		180

Radiation pattern: Antenna 1. XZ Plane at f = 462MHz

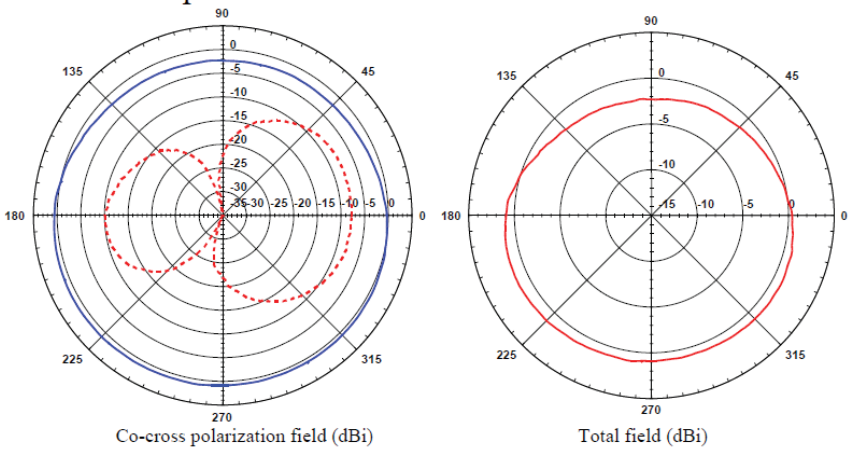


Co-cross polarization field (dBi)

Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. YZ Plane at f = 462MHz

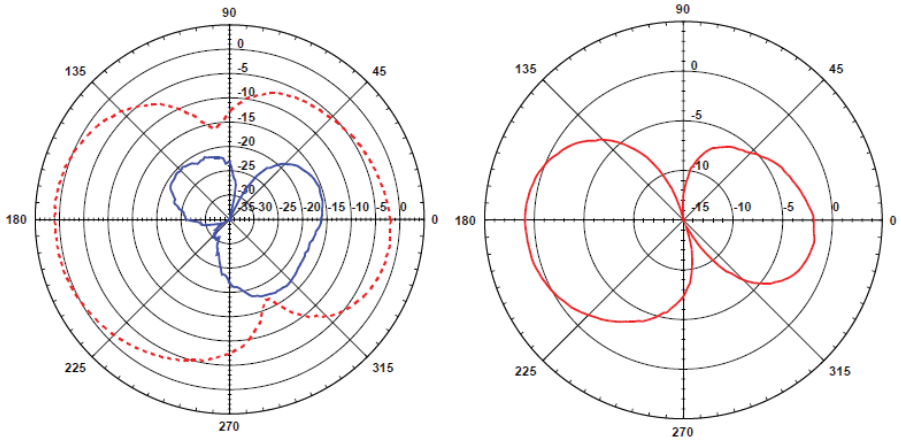


Co-cross polarization field (dBi)

Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XY Plane at f = 462MHz

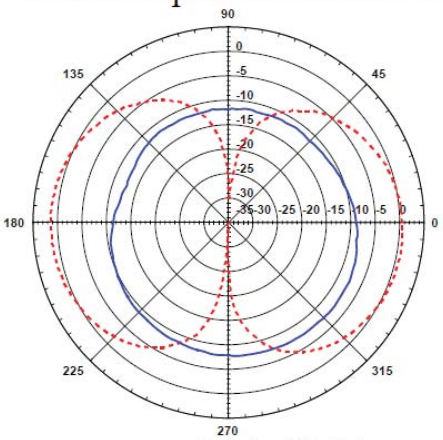


Co-cross polarization field (dBi)

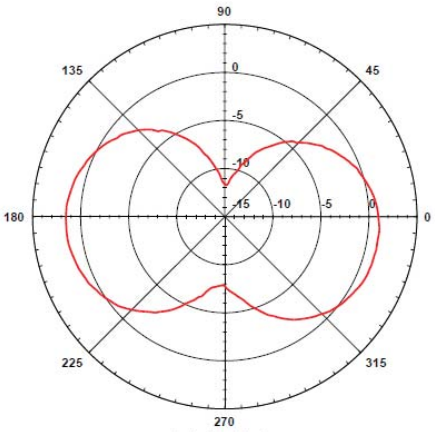
Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XZ Plane at f = 465MHz



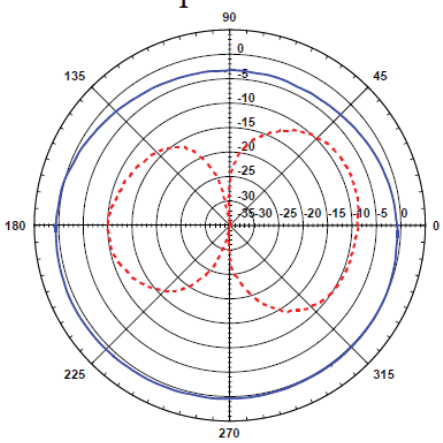
Co-cross polarization field (dBi)



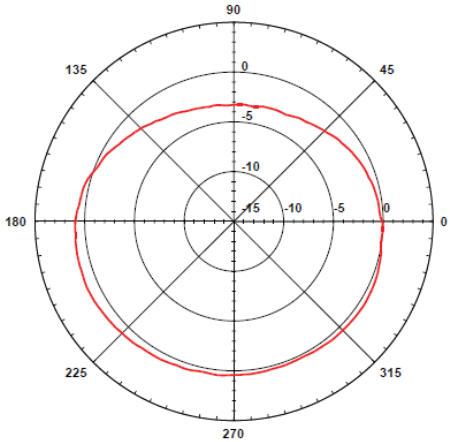
Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. YZ Plane at f = 465MHz



Co-cross polarization field (dBi)



Total field (dBi)

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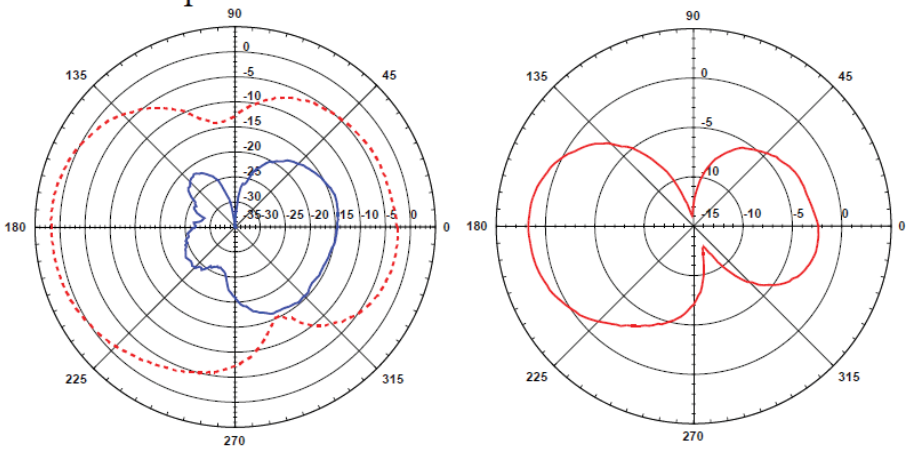
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XY Plane at f = 465MHz

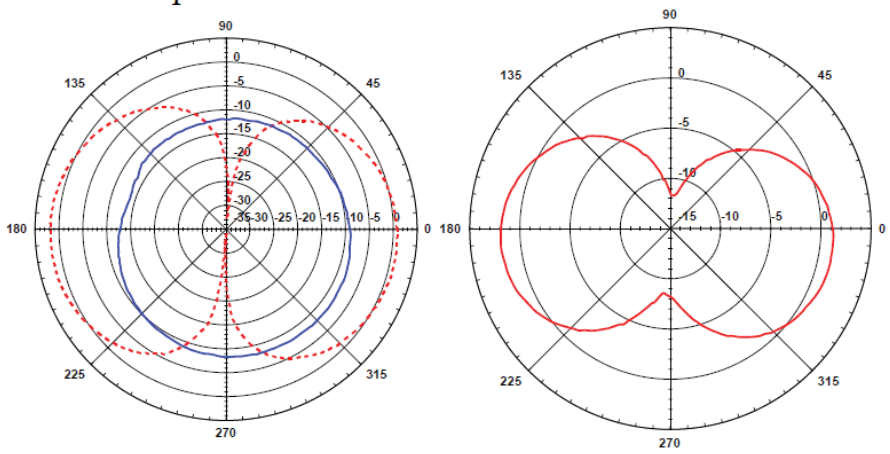


Co-cross polarization field (dBi)

Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XZ Plane at f = 468MHz



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Total field (dBi)

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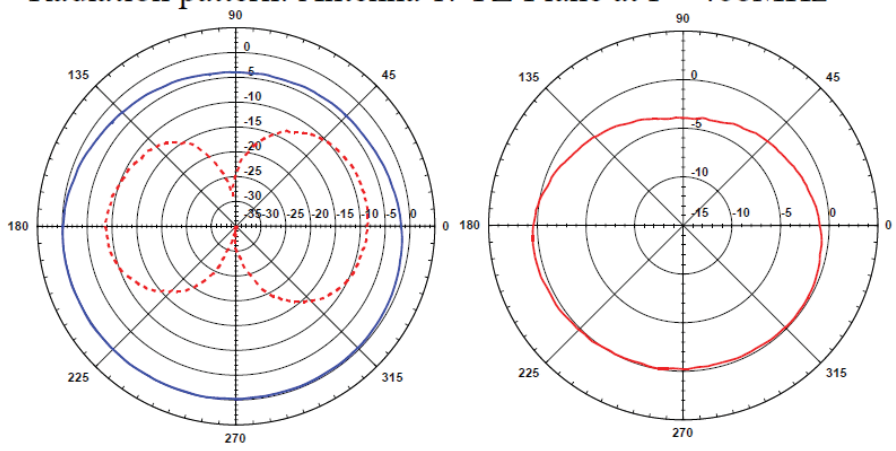
Radiation pattern: Antenna 1. YZ Plane at f = 468MHz



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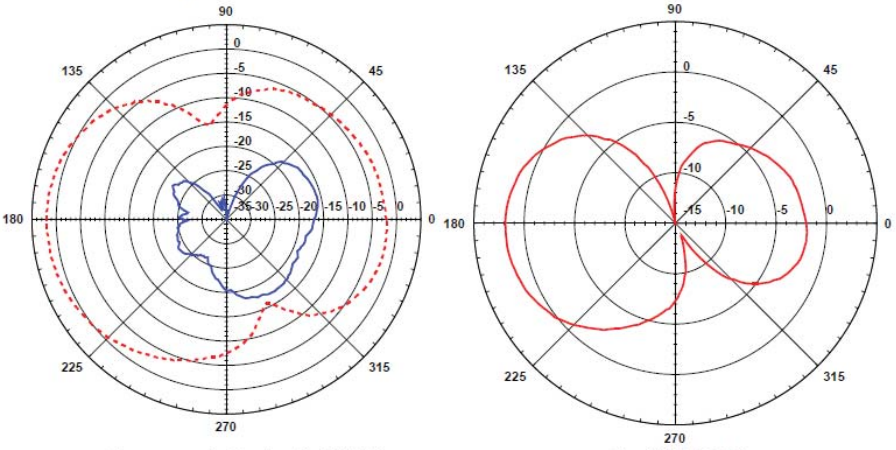
Radiation pattern: Antenna 1. XY Plane at f = 468MHz



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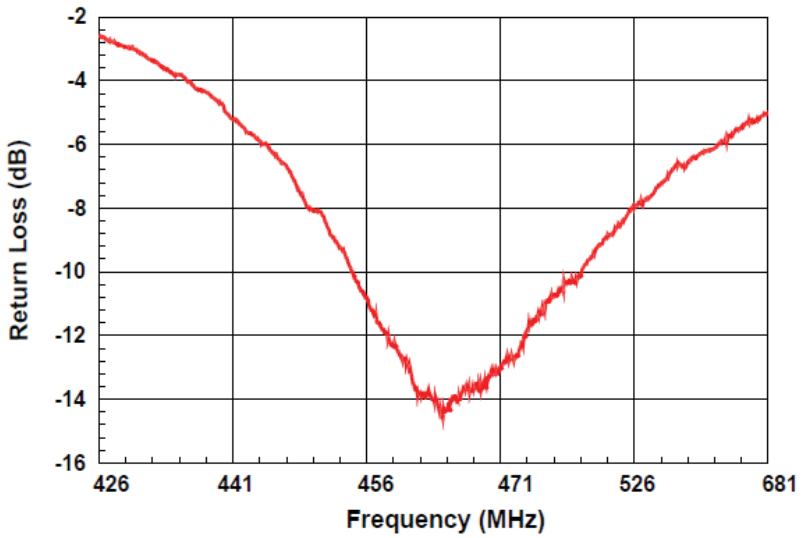
Return Loss: Antenna 1



BW(-10dB) 13.48%

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