

# module antenna test report

— ANT manufacturer

公司名称：深圳市聆动智能科技有限公司

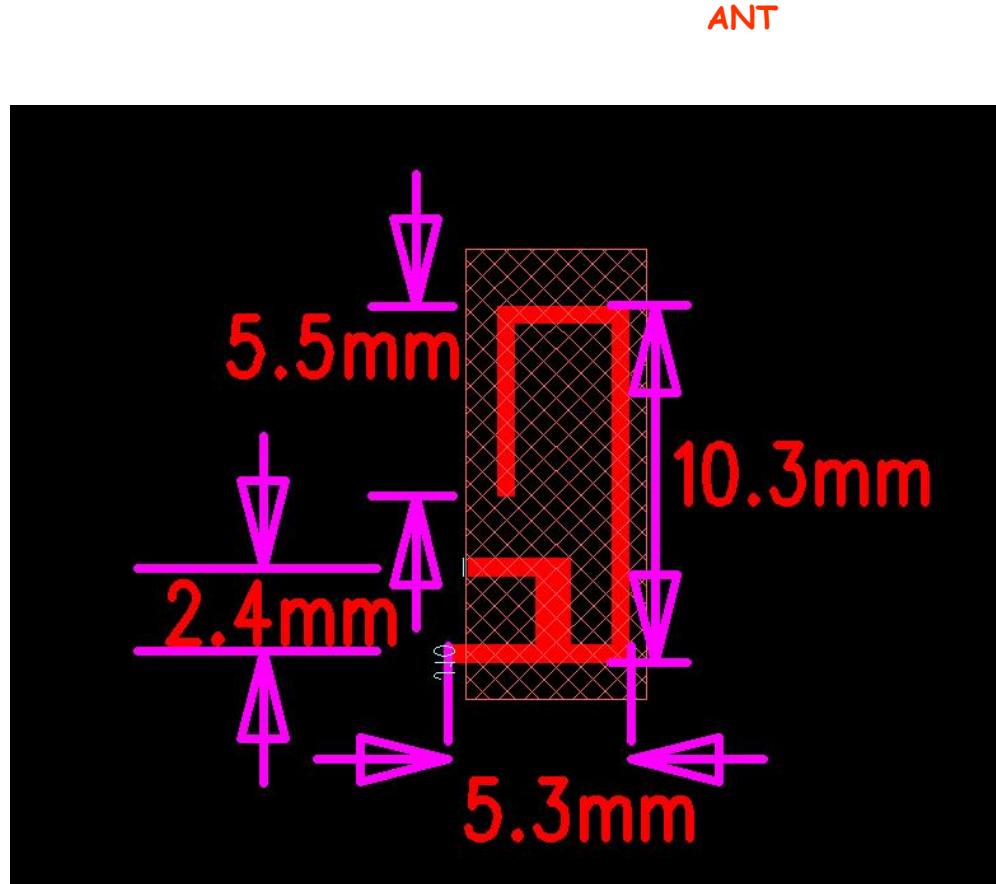
Company name: Shenzhen Lingdong Intelligent  
Technology Co., Ltd

地址：深圳市南山区西丽街道西丽社区打石一路深圳国际  
创新谷1栋B座1501

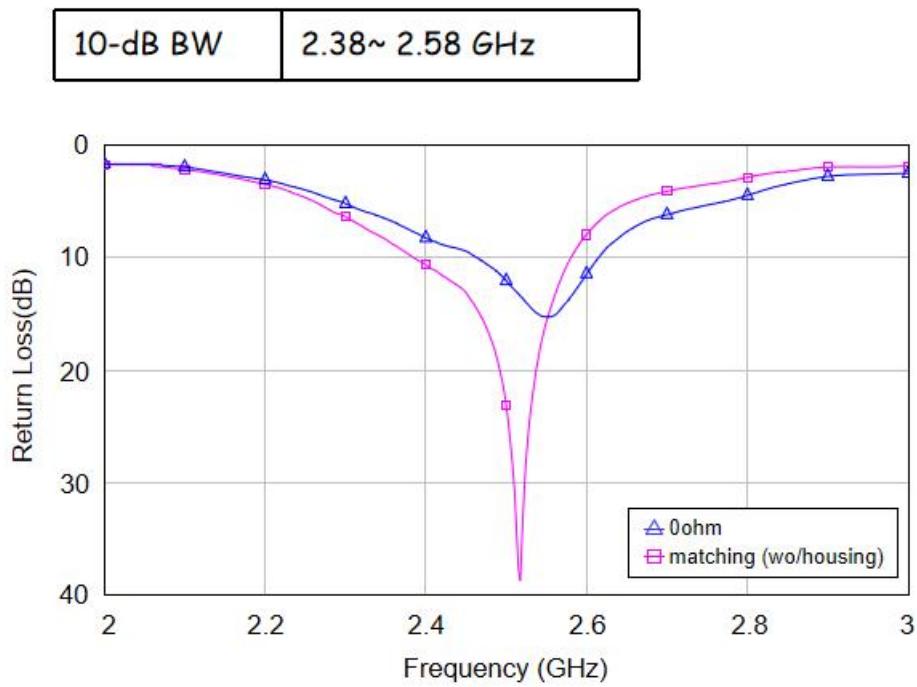
address: 1501, Block B, Building 1, Shenzhen  
International Innovation Valley, Dashi 1st Road, Xili  
Community, Xili Street, Nanshan District, Shenzhen

Model : PIFA

- Antenna structure
- Photo



- **Return Loss**



# Radiation Patterns

Frequency : 2400MHz, 2450MHz and 2480MHz

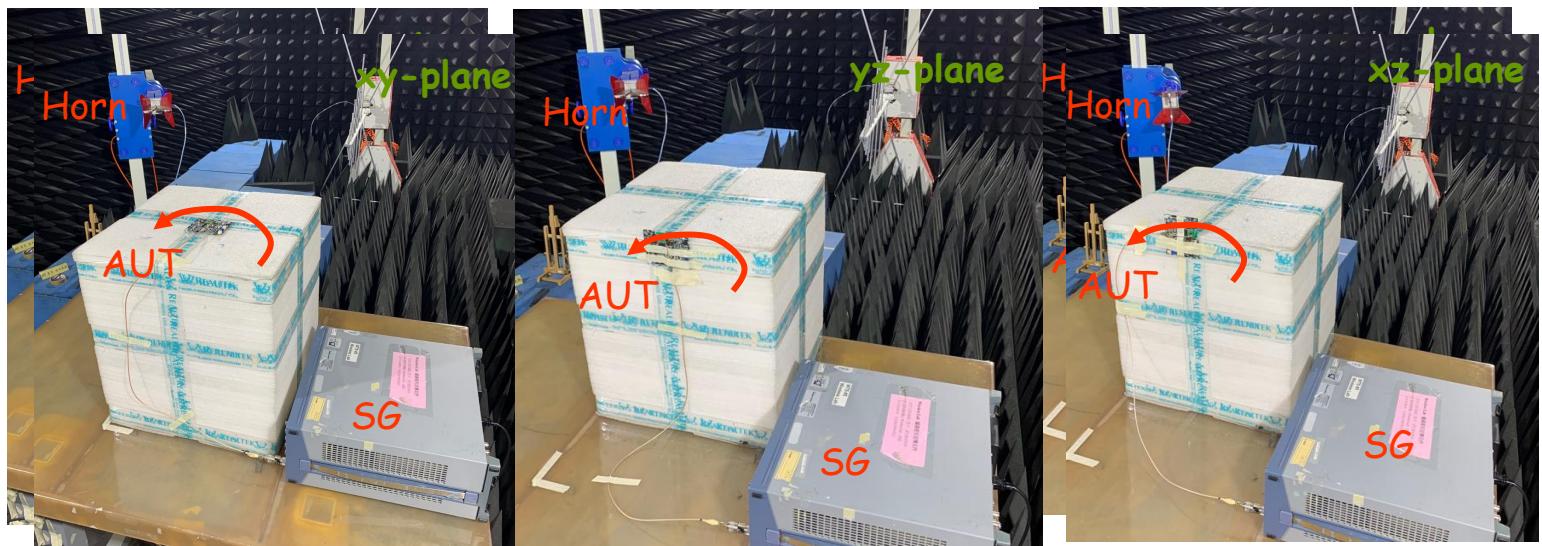
Test plane : xy-plane, xz-plane and yz-plane

Input power : SG 0dBm

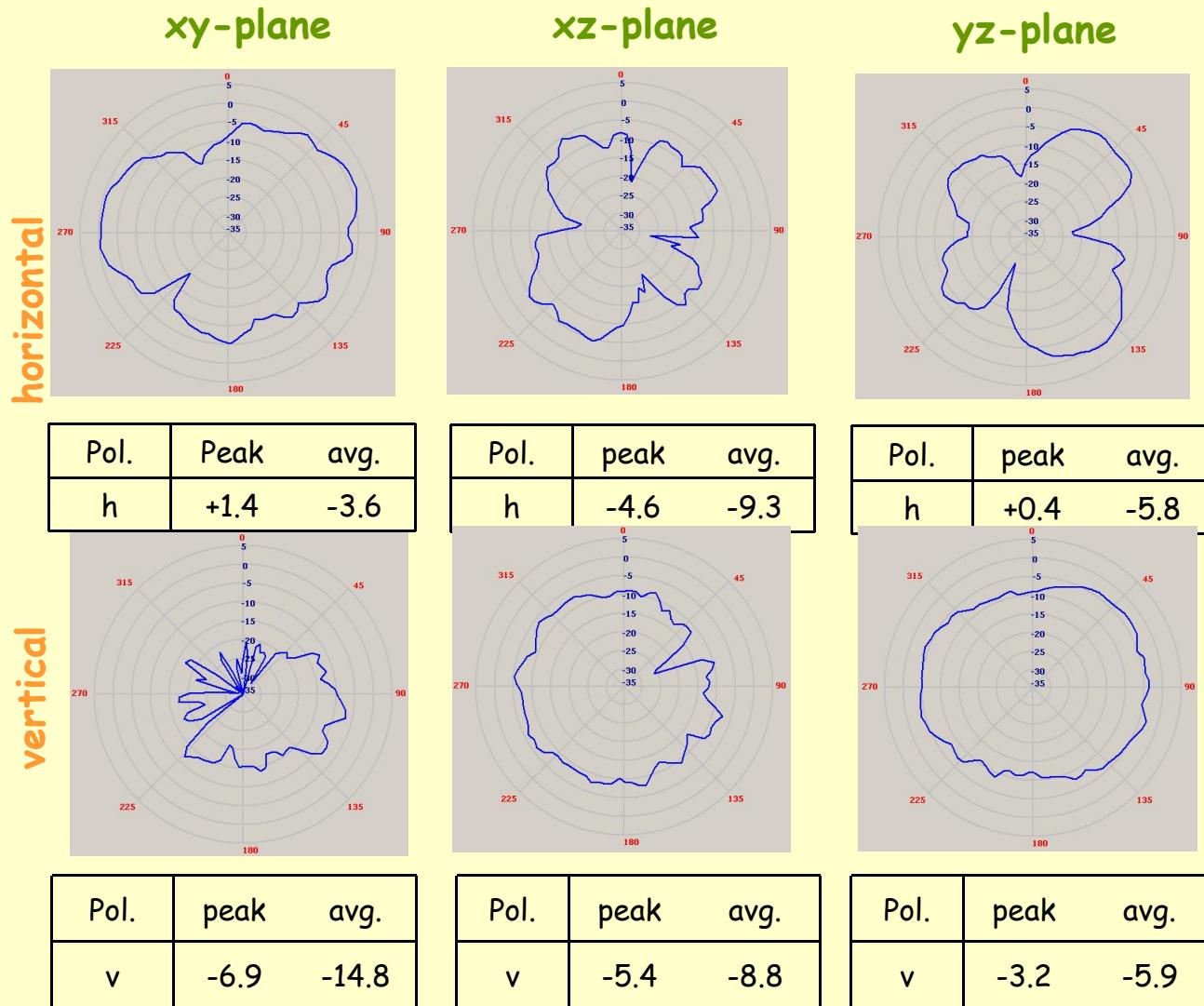
Place: RTK 4F chamber

Horn h: horizontal polarization

Horn v: vertical polarization



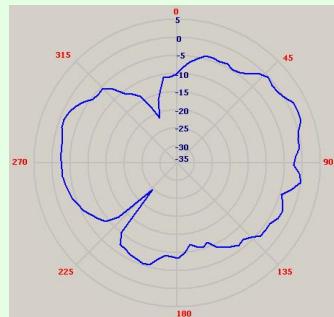
# Radiation Patterns — 2400MHz (2n2 wo/housing)



# Radiation Patterns — 2450MHz (2n2 wo/housing)

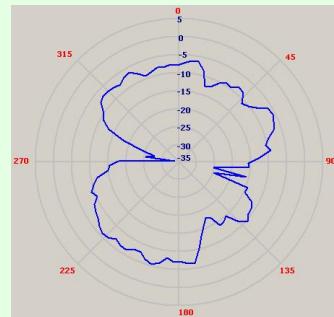
horizontal

xy-plane



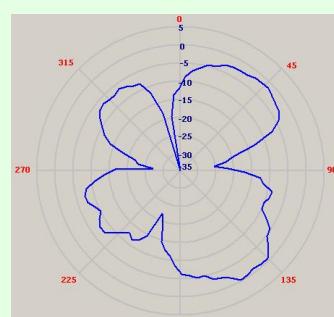
Pol.	Peak	avg.
h	+1.5	-3.8

xz-plane



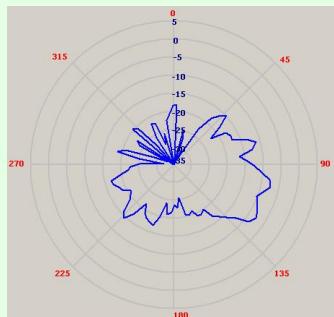
Pol.	peak	avg.
h	-5.7	-9.0

yz-plane

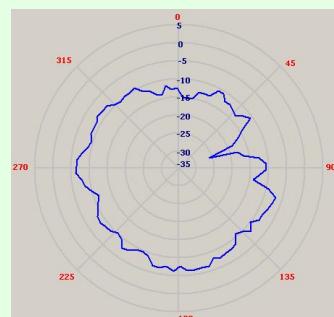


Pol.	peak	avg.
h	-0.5	-6.2

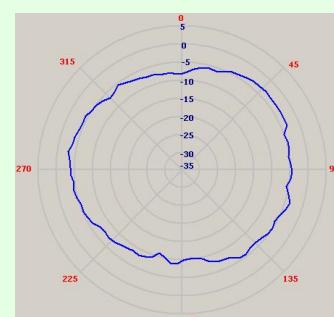
vertical



Pol.	peak	avg.
v	-7.5	-15.8

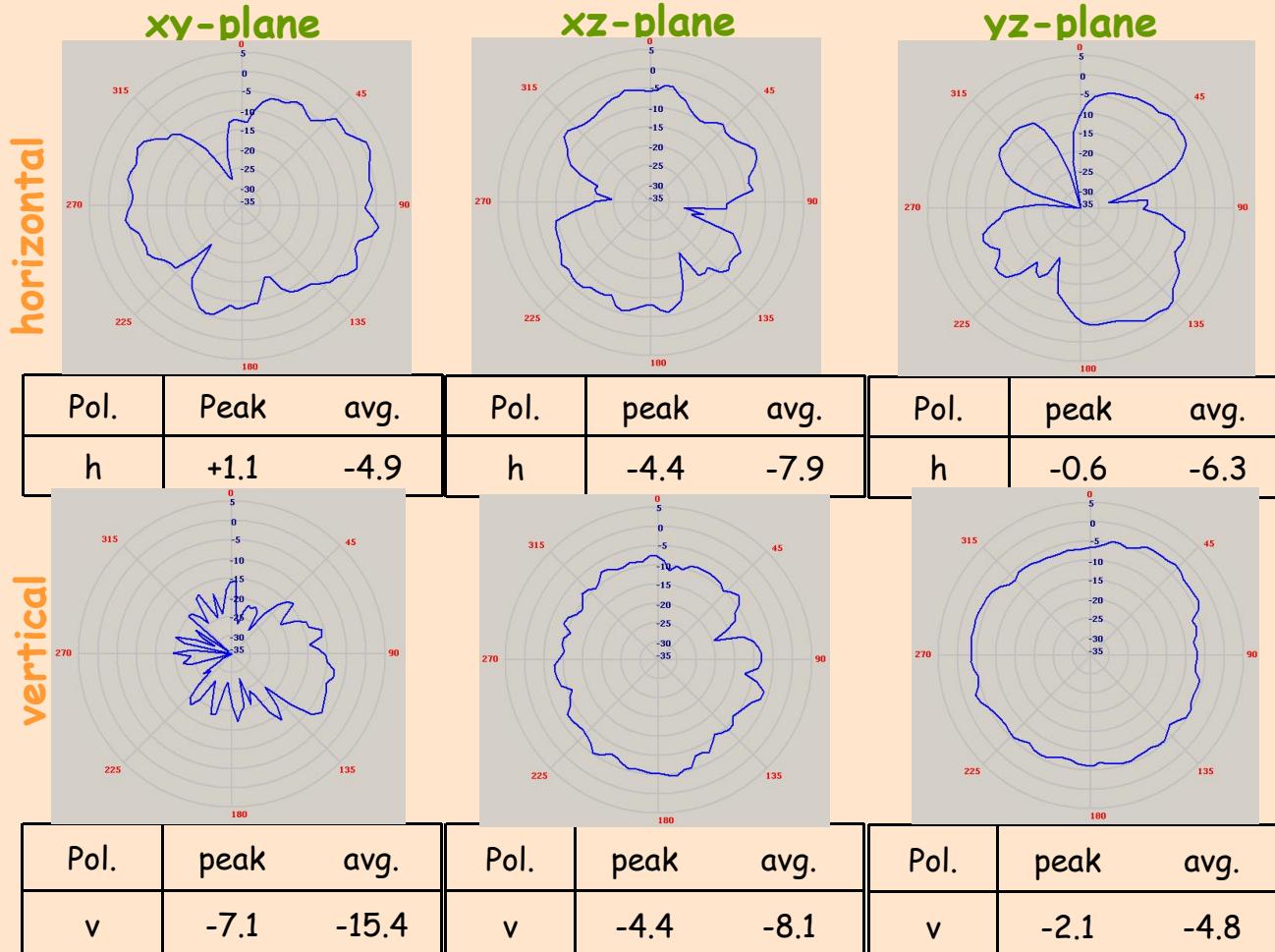


Pol.	peak	avg.
v	-6.4	-9.4



Pol.	peak	avg.
v	-3.3	-5.5

# Radiation Patterns — 2480MHz (2n2 wo/housing)



# Antenna gain table

Freq.	2400MHz													
Plane	xy-plane				xz-plane				yz-plane				Efficiency (%)	
Pol.	h		v		h		v		h		v			
Gain (dBi)	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.		
	+1.4	-3.6	-6.9	-14.8	-4.6	-9.3	-5.4	-8.8	+0.4	-5.8	-3.2	-5.9	41.3	

Freq.	2450MHz												Efficiency (%)	
Plane	xy-plane				xz-plane				yz-plane					
Pol.	h		v		h		v		h		v			
Gain (dBi)	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.		
	+1.5	-3.8	-7.5	-15.8	-5.7	-9.0	-6.4	-9.4	-0.5	-6.2	-3.3	-5.5	40.1	

Freq.	2480MHz												Efficiency (%)	
Plane	xy-plane				xz-plane				yz-plane					
Pol.	h		v		h		v		h		v			
Gain (dBi)	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.		
	+1.1	-4.9	-7.1	-15.4	-4.4	-7.9	-4.4	-8.1	-0.6	-6.3	-2.1	-4.8	41.1	