



P/N: 10G032500-0D
UD812A08_1v0 USB dongle
antenna test report

Jeany Ling

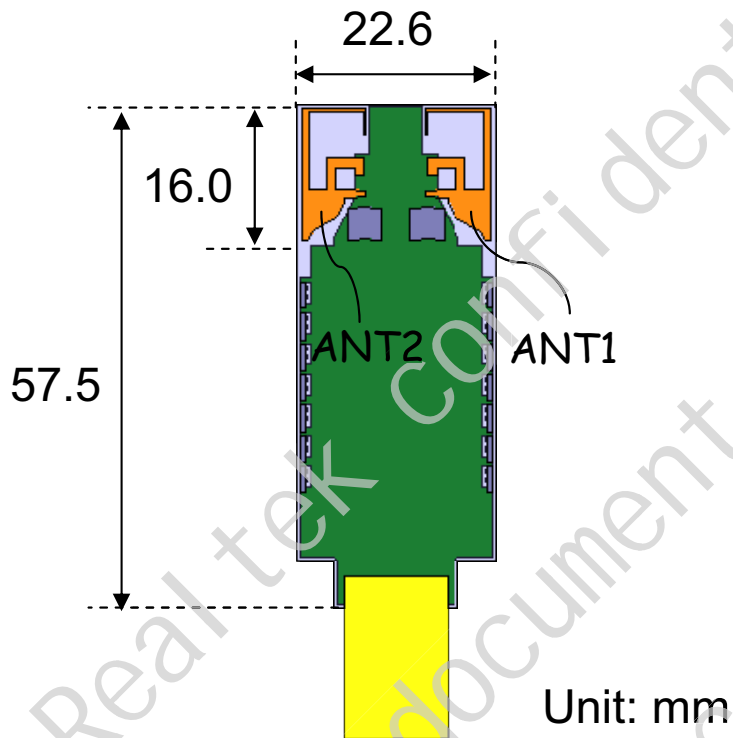
Nov. 06, 2012



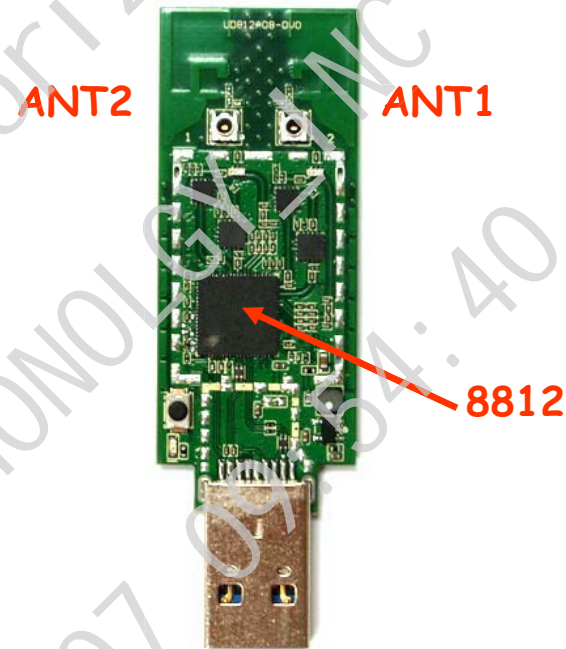


UD812A08_1v0 USB dongle antenna test report

- **Antenna structure**



- **Photo**




- **Operating freq. = 2.45 GHz
5.50 GHz**

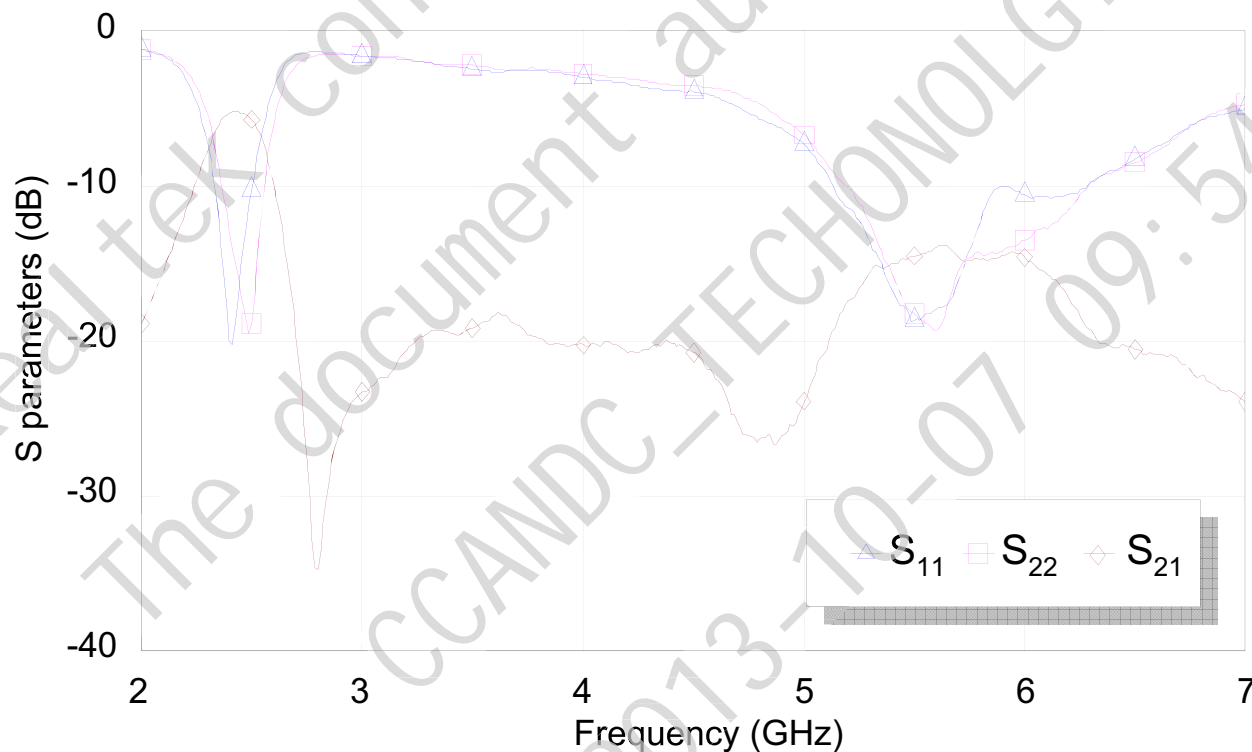




UD812A08_1v0 USB dongle antenna test report

- S parameters

• 10-dB BW ₁	2.33 ~ 2.50 GHz	5.12 ~ 6.28 GHz	
• 10-dB BW ₂	2.36 ~ 2.55 GHz	5.19 ~ 6.25 GHz	
• S ₂₁	-5.3 dB @2.45 GHz	-14.5 dB @5.5 GHz	





UD812A08_1v0 USB dongle antenna test report

• Radiation Patterns

- Freq. : 2437MHz, 5500 MHz
- Test plane : xy-plane
- Input power : SG 0dBm
- Place: RTK 4F chamber
- Horn h: horizontal polarization
- Horn v: vertical polarization





UD812A08_1v0 USB dongle antenna test report

Radiation Patterns

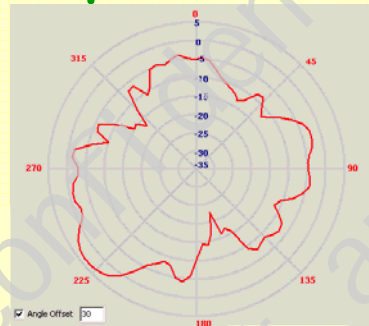
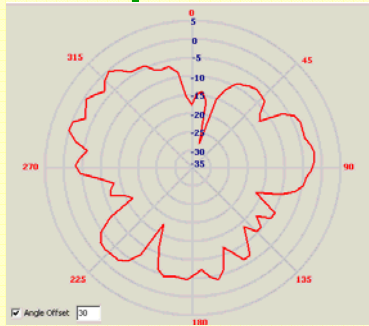
2437 MHz

5500 MHz

horizontal

port1

port2

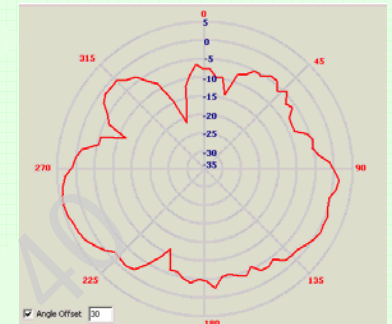
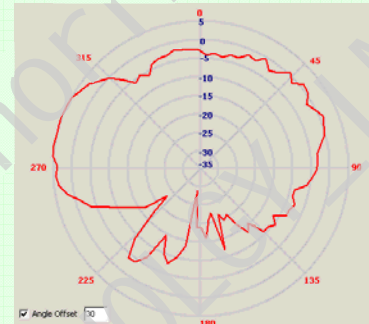


Pol.	peak	avg.
h	-0.1	-5.7

Pol.	peak	avg.
h	3.5	-4.3

port1

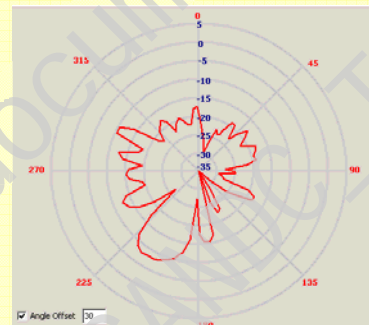
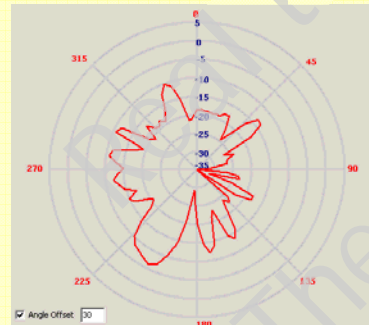
port2



Pol.	peak	avg.
h	5.9	-1.4

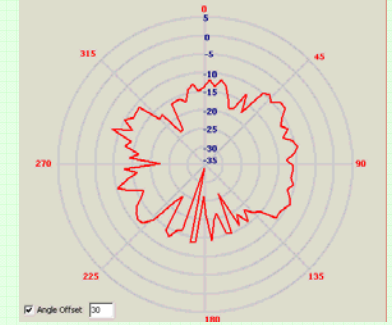
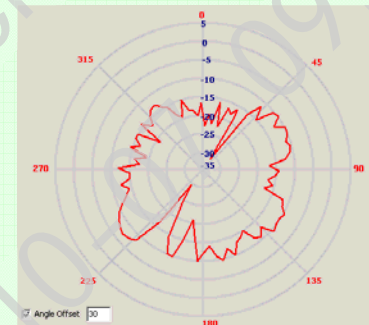
Pol.	peak	avg.
h	4.4	-2.1

vertical



Pol.	peak	avg.
v	-6.2	-15.1

Pol.	peak	avg.
v	-8.2	-16.3



Pol.	peak	avg.
v	-7.3	-13.0

Pol.	peak	avg.
v	-8.0	-13.2

