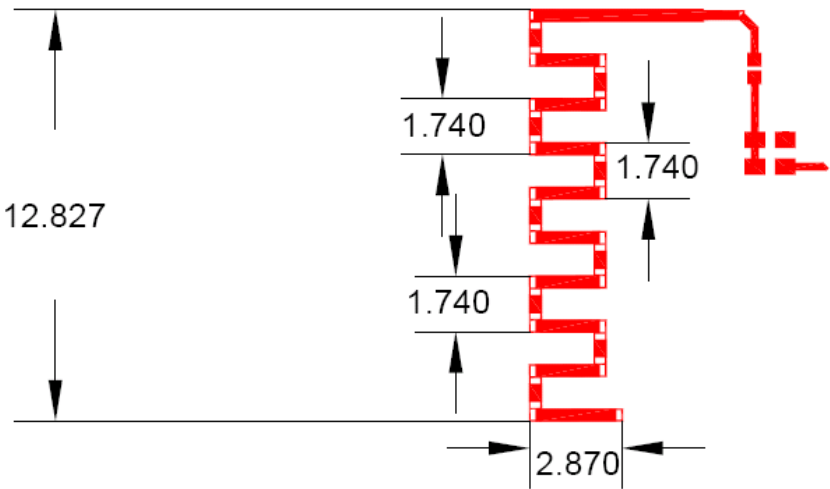


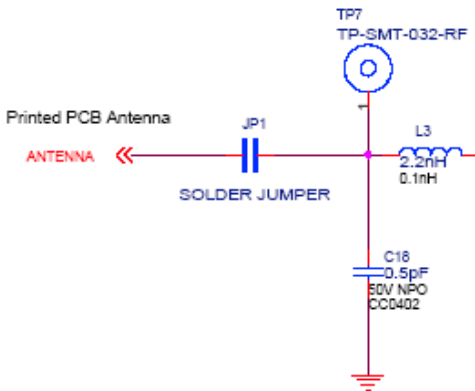
Antenna Pattern for Bluetooth USB Dongle

The integration of a high performance etched PCB antenna makes the Dongle more cost effective and performance is guaranteed during the production.

Layout



Schematic



Gain

		Peak	Average	
X Plane	Horizontal	1.87	-5.17	
	Vertical	-8.13	-10.84	
Y Plane	Horizontal	2.03	-4.91	
	Vertical	-7.63	-11.39	
Z Plane	Horizontal	-4.97	-17.24	
	Vertical	0.7	-1.1	Unit: dBi



SIZE
A

DRAWING NO.
USB Bluetooth Button Dongle

REV
A

DRAWN

SCALE 1/1

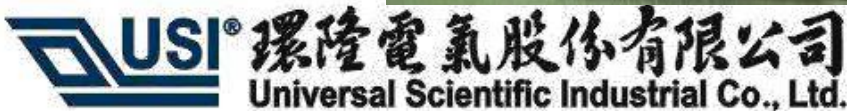
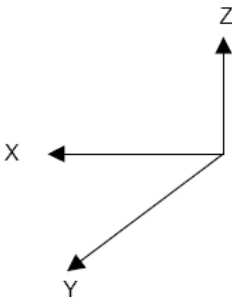
SHEET

1

OF

7

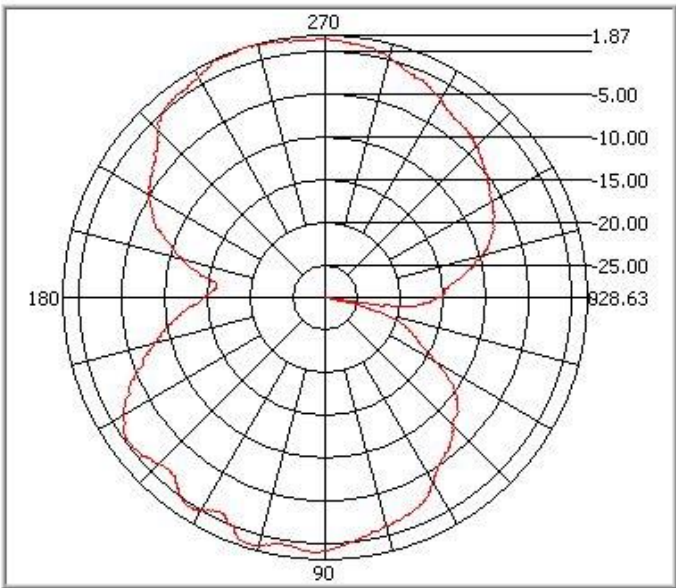
rand/ Model: USB Bluetooth Button Dongle X Plane and Horizontal.



Model No: BT Ant

Antenna Position: Horizontal

Frequency 2441.00 MHz



Peak: 1.87 dBi Peak Angle: 250.24 Degree
Average: -5.17 dBi

Test engineer: _____

Test date: 2004/7/12 at 下午 04:

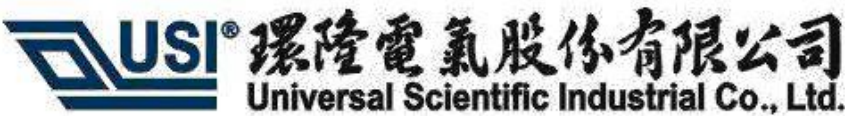


SIZE
A

DRAWING NO.
USB Bluetooth Button Dongle

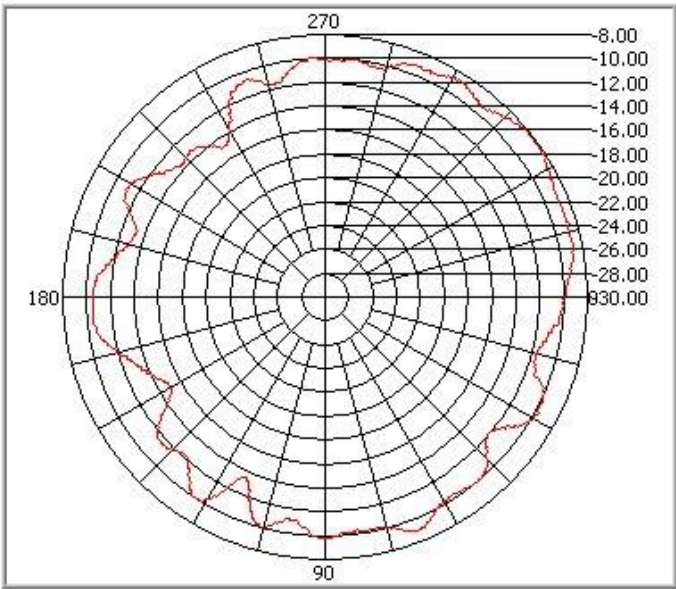
REV
A

DRAWN SCALE 1/1 SHEET 2 OF 7



Model No: BT Ant Antenna Position: Vertical

Frequency MHz



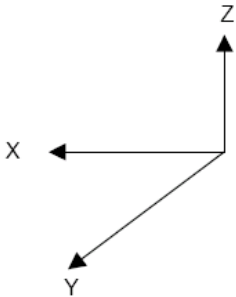
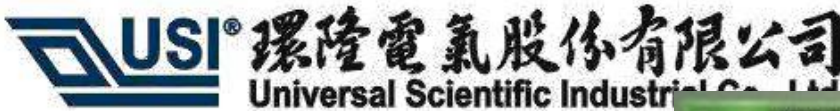
Peak: -8.13 dBi Peak Angle: 319.37 Degree
Average: -10.84 dBi

Test engineer: _____

Test date: 2004/7/12 at 下午 04:

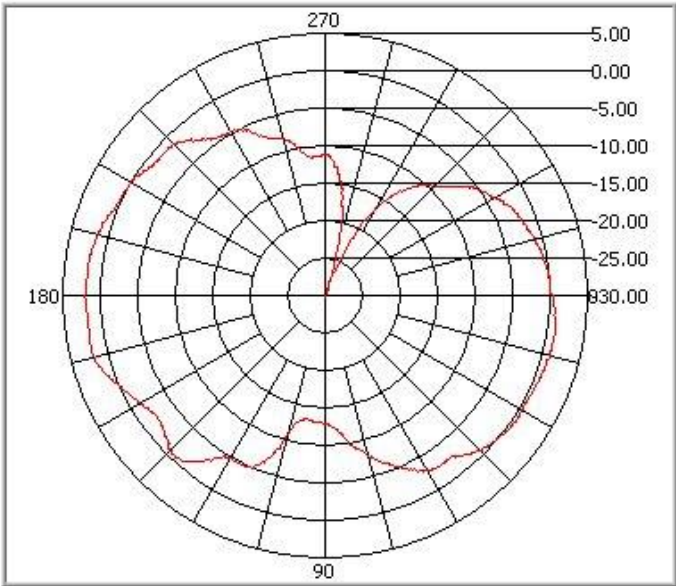
	SIZE	DRAWING NO. USB Bluetooth Button Dongle			REV A	
	A					
	DRAWN	SCALE 1/1	SHEET 3	OF 7		

Brand/ Model: USB Bluetooth Button Dongle Y Plane and Horizontal.



Model No: BT Ant Antenna Position: Horizontal

Frequency MHz

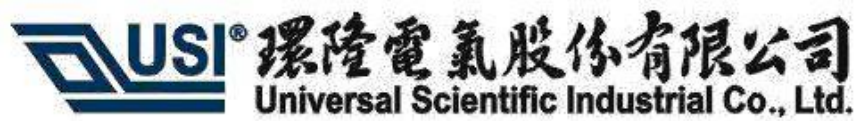


Peak: 2.03 dBi Peak Angle: 165.85 Degree
Average: -4.91 dBi

Test engineer: _____

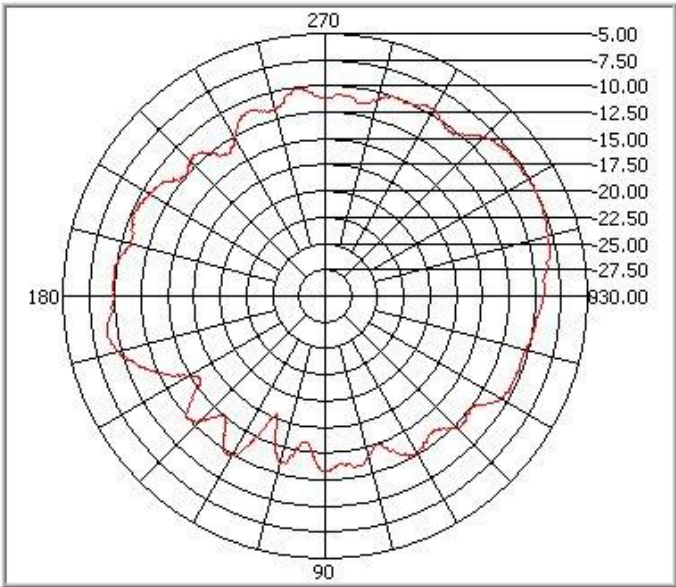
Test date: 2004/7/12 at 下午 04:

	SIZE A	DRAWING NO. USB Bluetooth Button Dongle			REV A
	DRAWN	SCALE 1/1	SHEET 4	OF 7	



Model No: BT Ant Antenna Position: Vertical

Frequency MHz



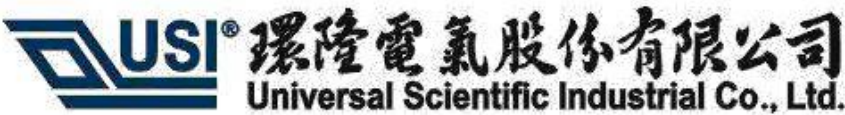
Peak: -7.63 dBi Peak Angle: 326.76 Degree
Average: -11.39 dBi

Test engineer: _____

Test date: 2004/7/12 at 下午 04: _____

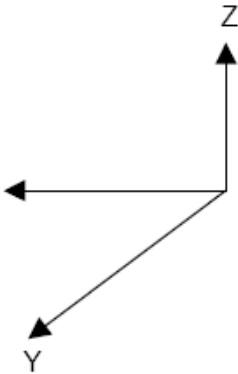
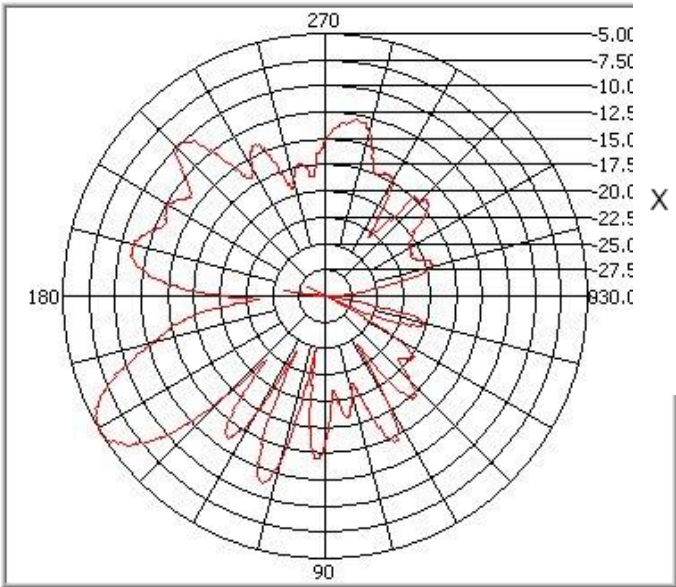
	SIZE A	DRAWING NO. USB Bluetooth Button Dongle			REV A
	DRAWN	SCALE 1/1	SHEET 5	OF 7	

Brand/ Model: USB Bluetooth Button Dongle Z Plane and Horizontal.



Model No: BT Ant Antenna Position: Horizontal

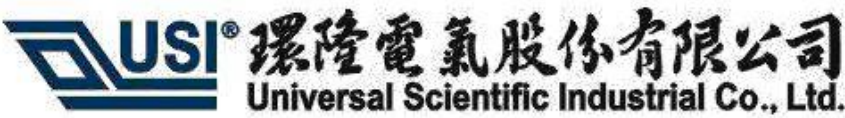
Frequency MHz



Peak: -4.97 dBi Peak Angle: 147.76 Degree
Average: -17.24 dBi

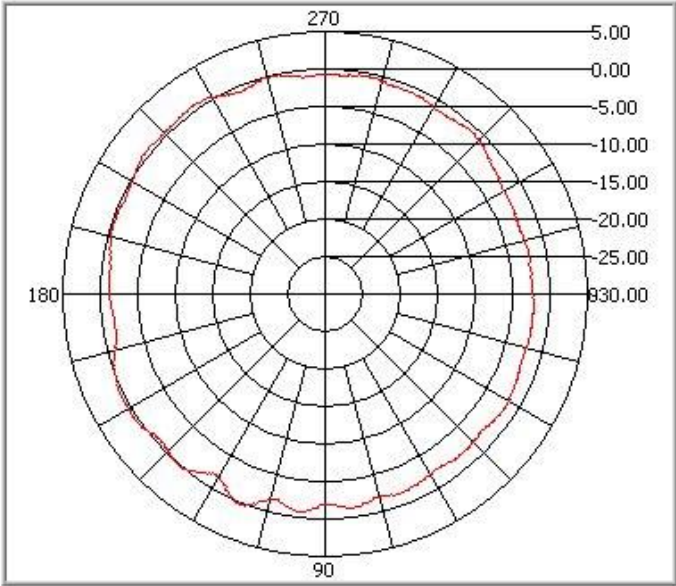
Test engineer: _____
Test date: 2004/7/12 at 下午 04:

	SIZE A	DRAWING NO. USB Bluetooth Button Dongle			REV A
	DRAWN	SCALE 1/1	SHEET 6	OF 7	



Model No: BT Ant Antenna Position: Vertical

Frequency MHz



Peak: 0.70 dBi Peak Angle: 233.22 Degree
Average: -1.10 dBi

Test engineer: _____

Test date: 2004/7/12 at 下午 04:

	SIZE A	DRAWING NO. USB Bluetooth Button Dongle			REV A
	DRAWN	SCALE 1/1	SHEET 7	OF 7	