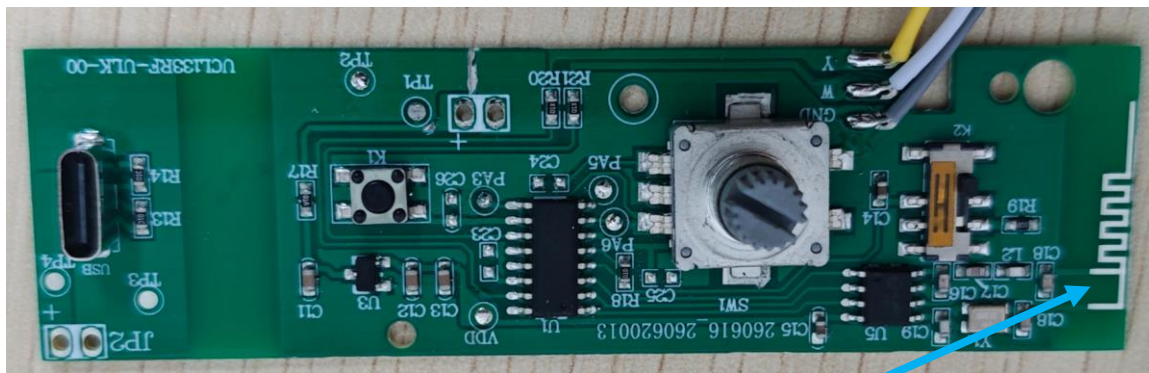
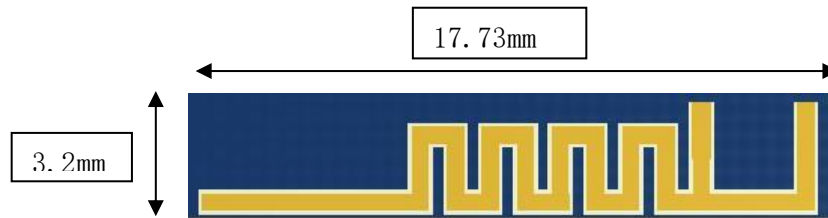


Antenna specification

Manufacturer:	Zhongshan Winstar Electrical Co.,Ltd
Adress:	No.6 of 181 and No. 3 of 182 Sanyi Road Sandun Industry District Minzhong Town Zhongshan City Guangdong Province China.
Model	UCL133S
Operating frequency:	2400 - 2500 MHz
Antenna Designation:	PCB Antenna
Antenna Gain (Peak):	-2dBi
Radiation orientation:	Omni-directional
Installation orientation	Horizontal direction

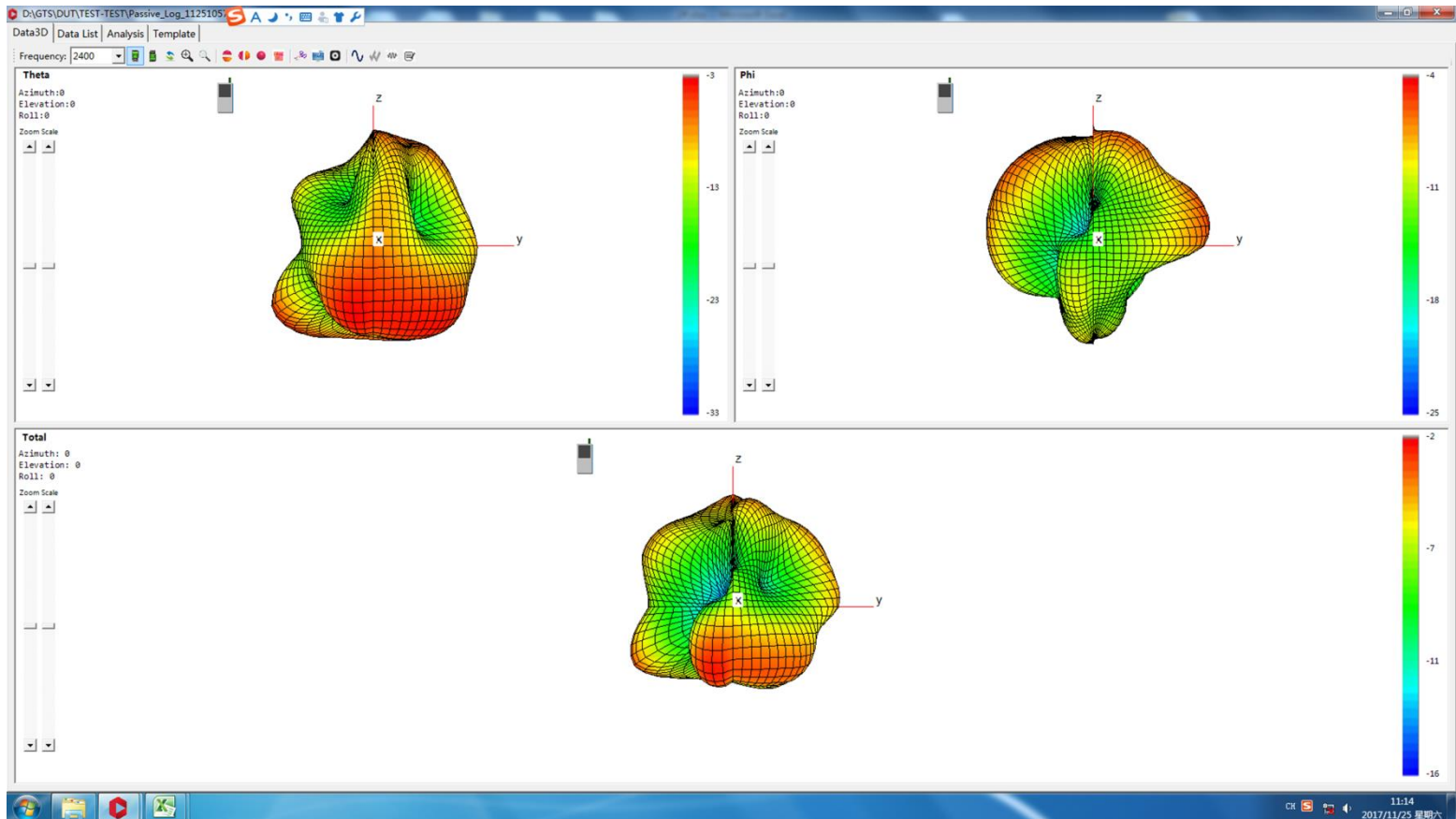
Antenna dimension



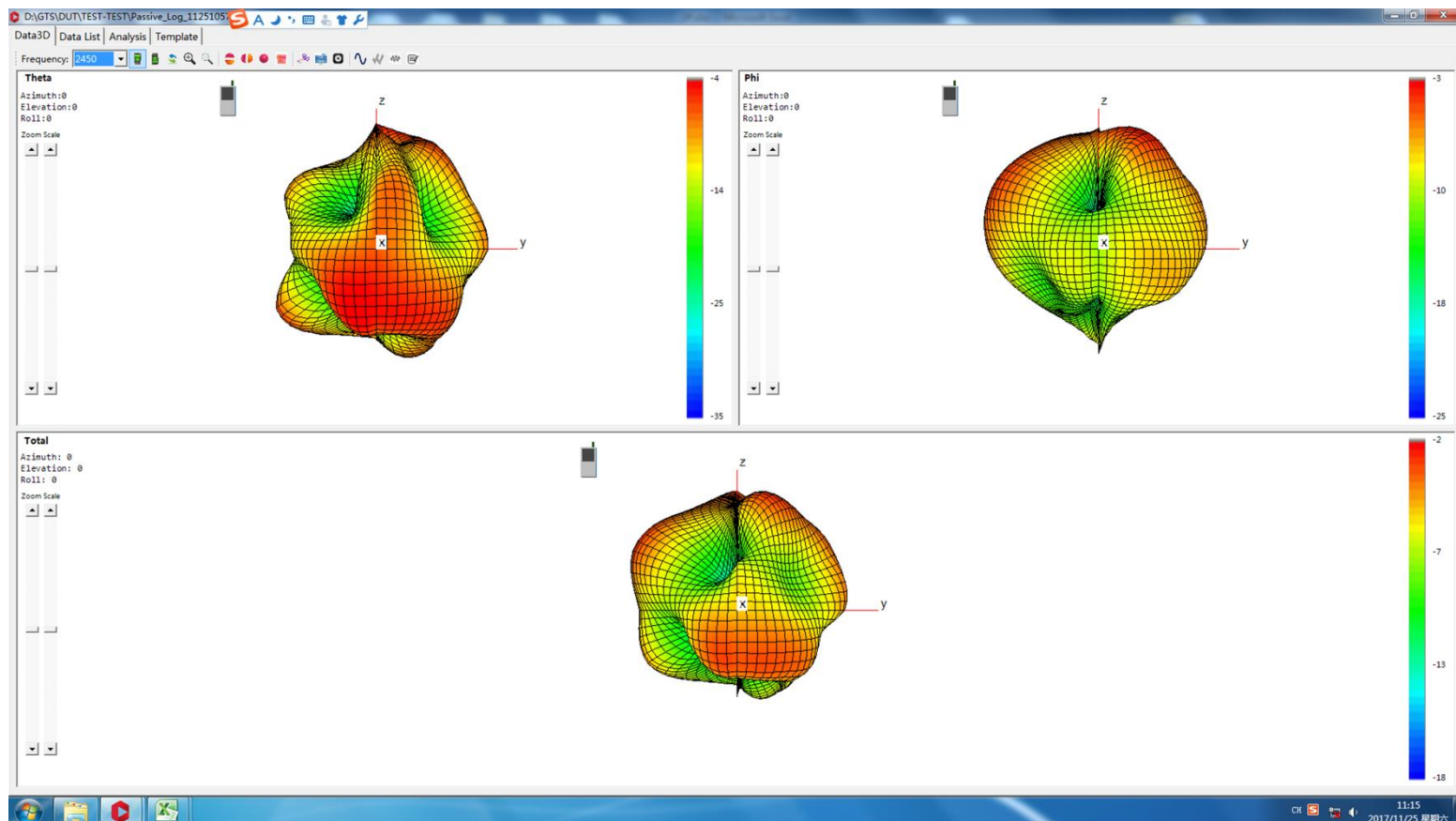
Antenna

Antenna Pattern (3-D)

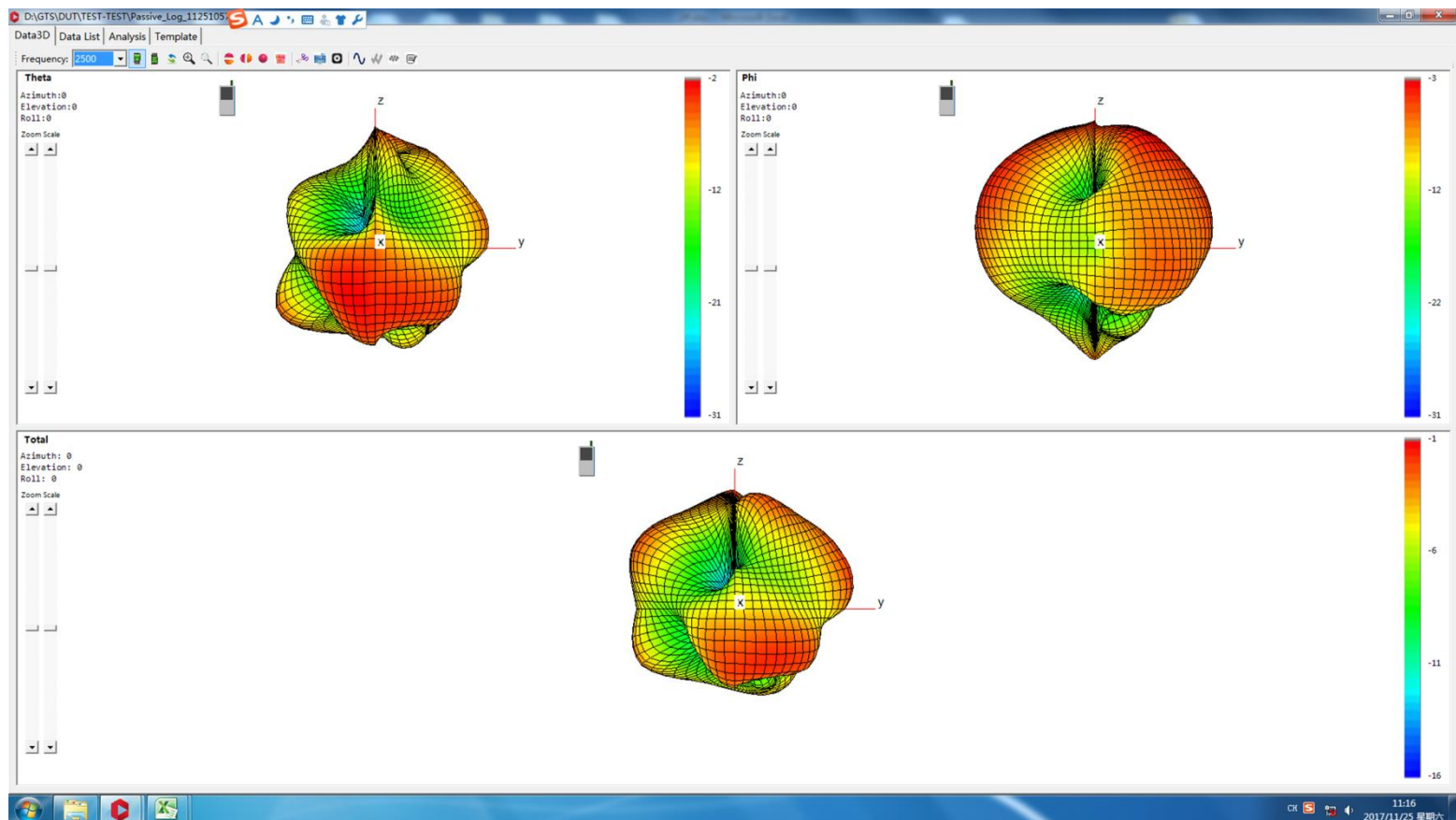
1) 2400MHz



2) 2450MHz



3) 2500MHz



4) Antenna Efficiency

Frequency (MHz)	2400	2450	2500
Ant. Port Input Pwr. (dBm)	0	0	0
Efficiency (%)	24.55	26.72	34.16
Efficiency (dB)	-6.09877	-5.7312	-4.66531