

KI7 WiFi Antenna Report in DVT2

2024/12/06



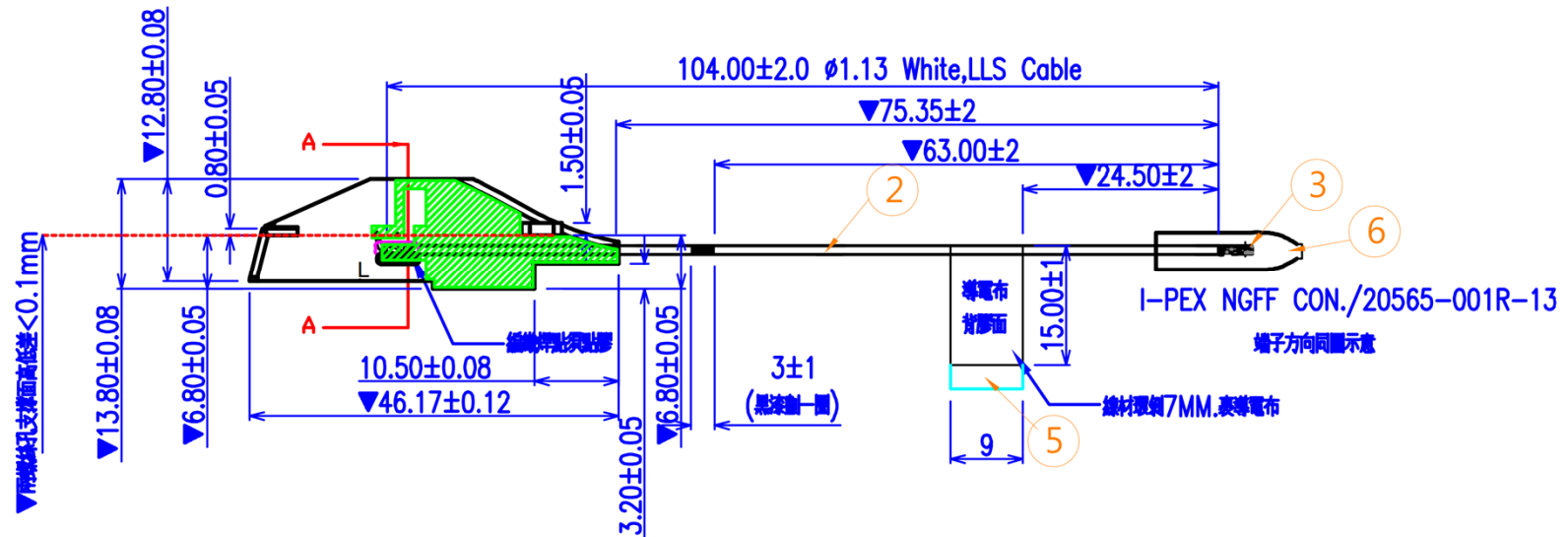
Quanta
Product Design Center

WiFi Antenna Information

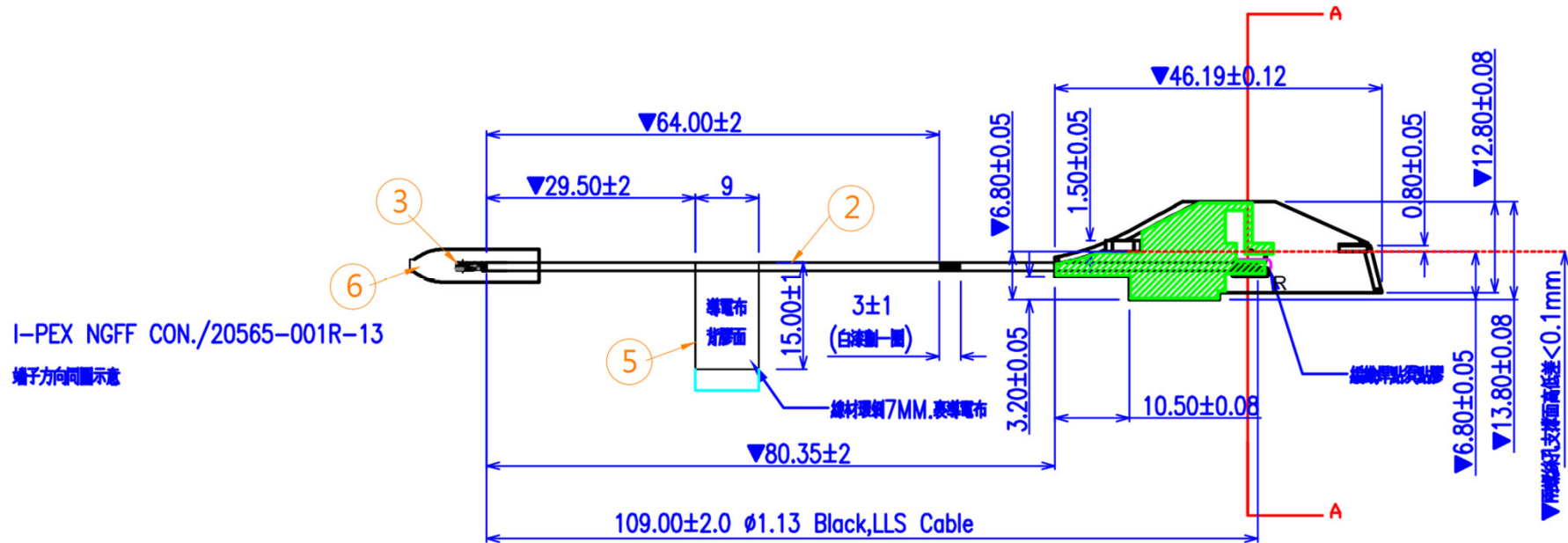
Antenna	Antenna Type	Manufacturer name	Model Name
WiFi 1L	PIFA Antenna	Advanced Wireless & Antenna INC.	ALL6Y-100008B
WiFi 2R	PIFA Antenna	Advanced Wireless & Antenna INC.	ALL6Y-100007B



WiFi 1L Antenna Dimensions and Photos



WiFi 2R Antenna Photos



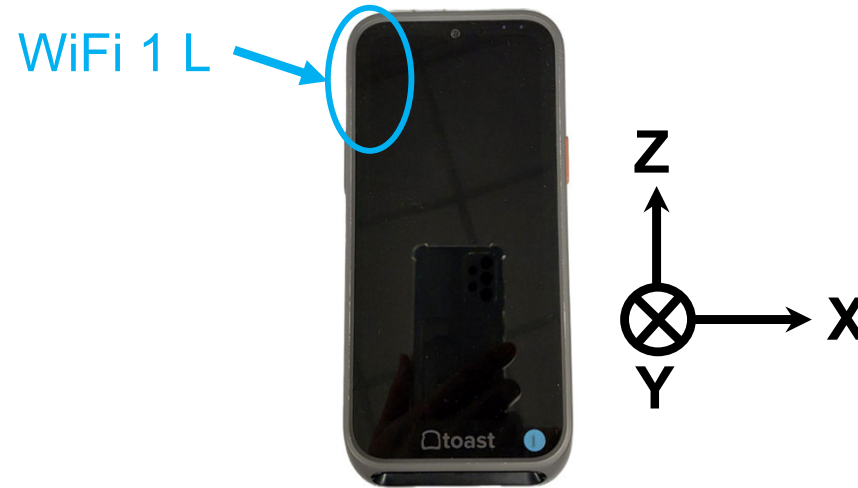
WiFi Antenna Placement



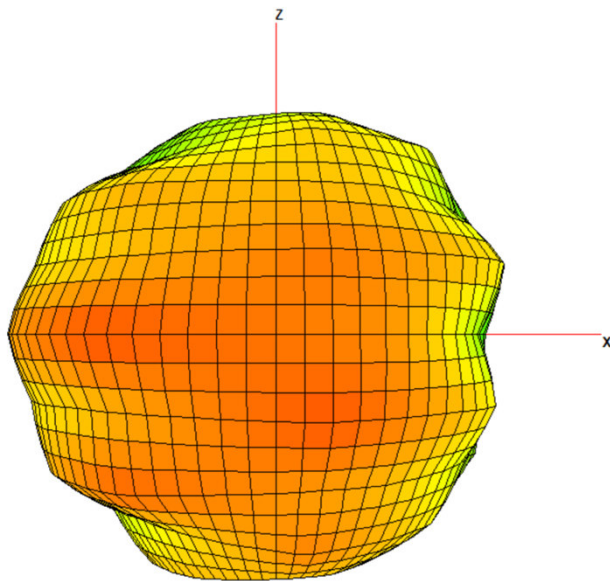
DVT2 WiFi 1 and WiFi 2 Antenna Radiation Efficiency

Operating Band	Freq. (MHz)	WiFi 1 L			WiFi 2 R		
		Radiation Efficiency (dB)	Average (dB)	Average (%)	Radiation Efficiency (dB)	Average (dB)	Average (%)
2.4 GHz	2400	-3.57	-3.42	45.5	-3.43	-3.48	44.9
	2440	-3.34			-3.36		
	2480	-3.35			-3.66		
5 GHz	5180	-3.64	-3.53	44.3	-3.76	-3.53	44.4
	5400	-3.67			-3.58		
	5650	-3.56			-3.31		
	5850	-3.29			-3.48		
6 GHz (WiFi 6E)	5925	-3.40	-3.53	44.3	-3.15	-3.42	45.4
	6375	-3.34			-3.79		
	6675	-3.38			-3.74		
	6925	-3.80			-3.35		
	7125	-3.77			-3.15		

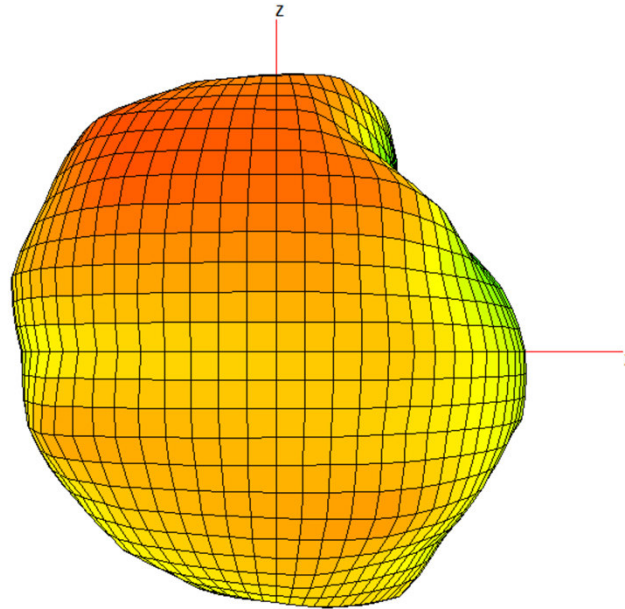
Measured WiFi1 3D Radiation Pattern



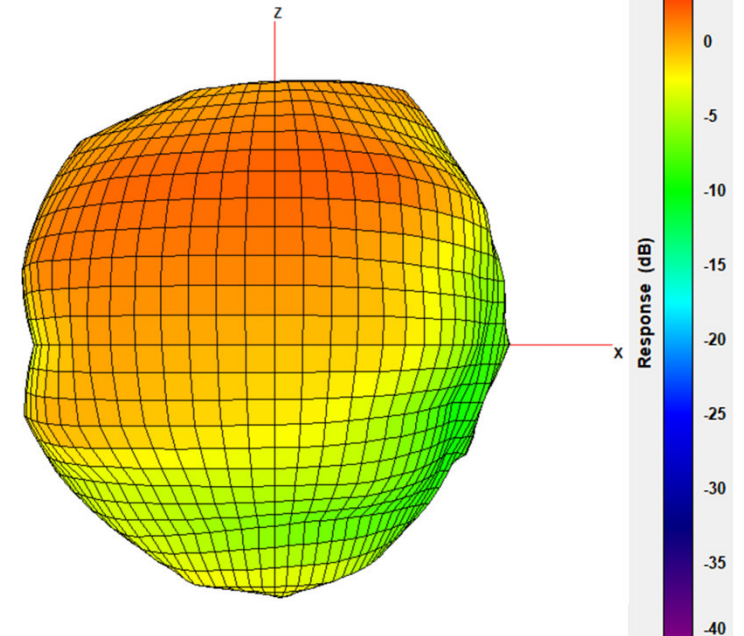
2.44GHz



5.65GHz



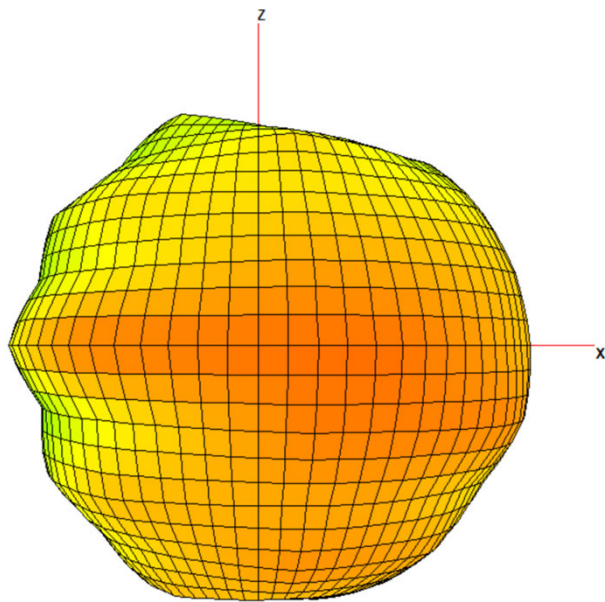
6.675GHz



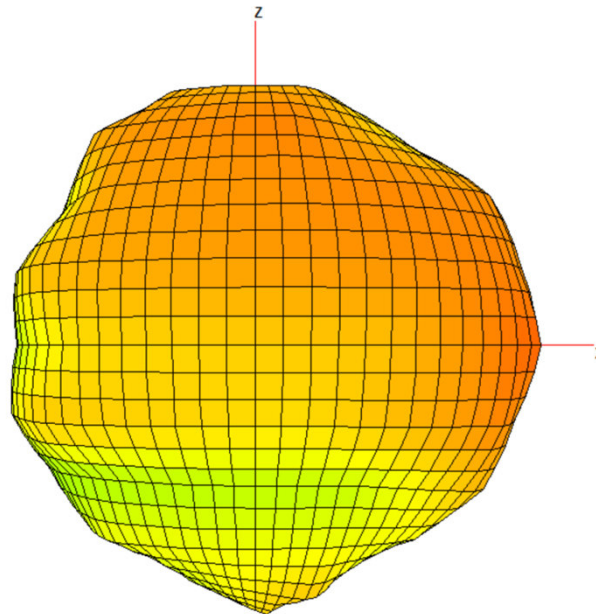
Measured WiFi2 3D Radiation Pattern



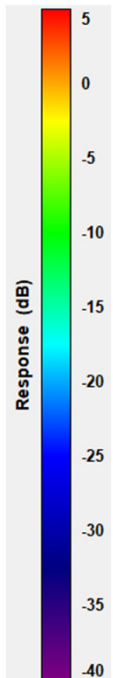
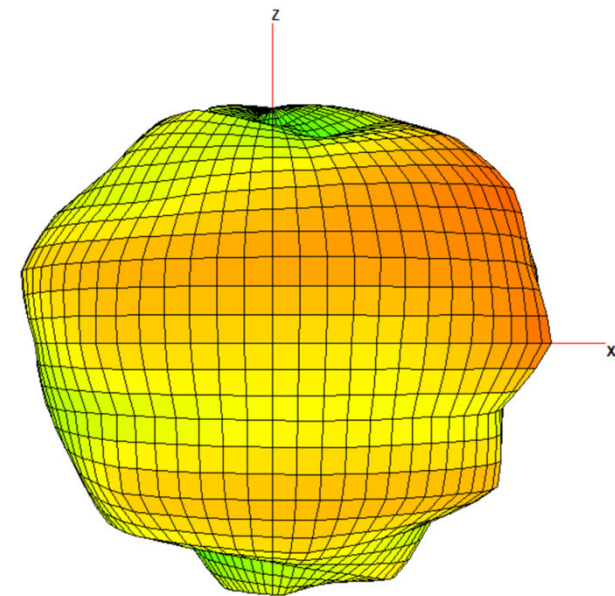
2.44GHz



5.65GHz



6.675GHz



WiFi 1 and WiFi 2 Antenna Peak Gain

Operating Band	Freq. (MHz)	Peak Gain (dBi)	
		WiFi 1 L	WiFi 2 R
2.4 GHz	2400	2.79	2.16
	2440	2.90	1.81
	2480	3.06	2.33
5 GHz	5150	2.57	3.42
	5300	2.99	2.45
	5500	2.69	1.19
	5800	3.26	2.69
	5850	3.38	3.09
6 GHz (WiFi 6E)	5925	3.43	3.92
	6475	3.32	2.90
	6675	2.43	2.51
	7125	2.77	3.82

