



Antenna Test Report for ATKK

Model Name: AT-TQ6403 GEN2

Brand: Allied Telesis

Mar. 16. 2022

Rev.03



Summary

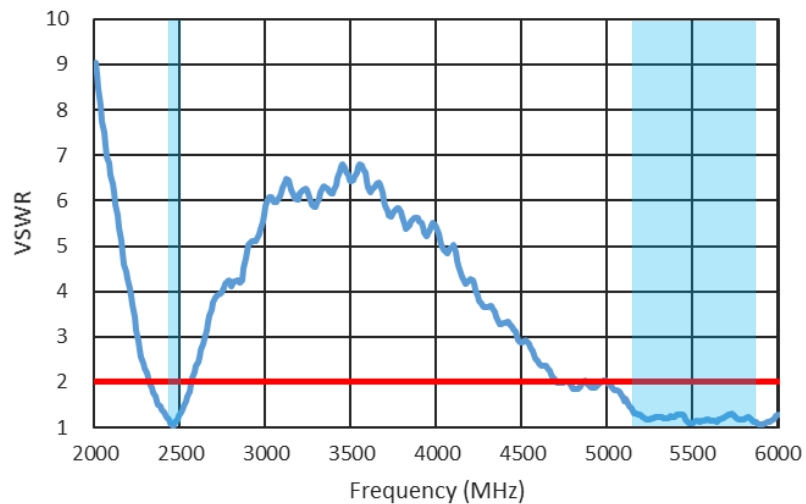
- **VSWR**
 - *Under 2.0 for Dual band 2.4GHz / 5GHz*
- **Isolation**
 - *> 20.2dB / 25.6dB for Dual band 2.4GHz / 5GHz*
- **Average Radiation efficiency**
 - *68% / 68% for Dual band 2.4GHz / 5GHz*
- **Peak gain**
 - *Max 3.49dBi/ 5.99dBi for Dual band 2.4GHz / 5GHz*

Antenna Efficiency and Peak Gain (AT-TQ6403 GEN2)

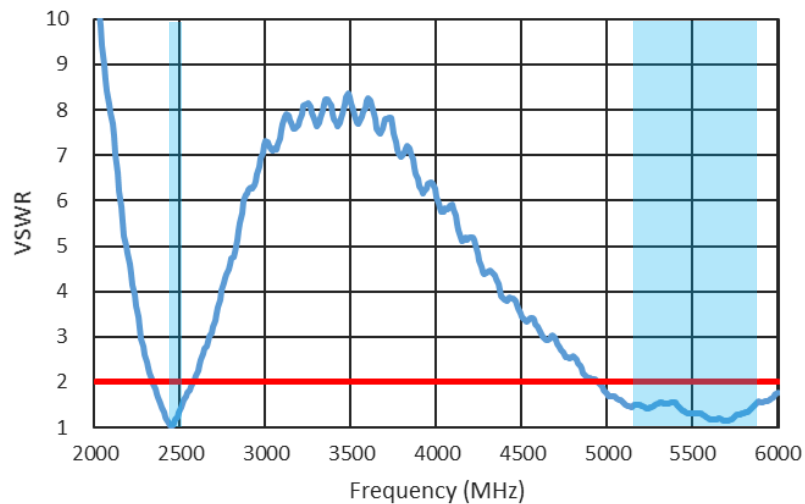
2G1	2400	2450	2500	avg.
Eff.	67.6%	70.9%	67.1%	68.6%
Eff. dB	-1.70	-1.49	-1.73	
Peak Gain	2.84	2.93	3.33	
2G2	2400	2450	2500	avg.
Eff.	66.5%	70.6%	66.9%	68.0%
Eff. dB	-1.77	-1.51	-1.75	
Peak Gain	2.68	2.69	2.51	
BLE / Zigbee	2400	2450	2500	avg.
Eff.	67.5%	71.0%	67.9%	68.8%
Eff. dB	-1.71	-1.49	-1.68	
Peak Gain	2.50	3.49	3.35	

5G1	5150	5350	5550	5750	5850	avg.
Eff.	67.3%	66.9%	68.7%	67.7%	66.5%	67.4%
Eff. dB	-1.72	-1.75	-1.63	-1.69	-1.77	
Peak Gain	5.39	5.52	5.55	5.66	5.95	
5G2	5150	5350	5550	5750	5850	avg.
Eff.	71.7%	71.6%	72.3%	73.3%	69.9%	71.7%
Eff. dB	-1.45	-1.45	-1.41	-1.35	-1.56	
Peak Gain	5.54	5.55	5.87	5.92	5.79	
5G3	5150	5350	5550	5750	5850	avg.
Eff.	70.6%	70.5%	68.5%	68.3%	68.8%	69.3%
Eff. dB	-1.51	-1.52	-1.64	-1.65	-1.62	
Peak Gain	5.99	5.99	5.54	5.37	5.88	
5G4	5150	5350	5550	5750	5850	avg.
Eff.	67.5%	70.5%	68.9%	68.1%	65.6%	68.1%
Eff. dB	-1.70	-1.52	-1.62	-1.67	-1.83	
Peak Gain	5.84	5.93	5.78	5.79	5.91	

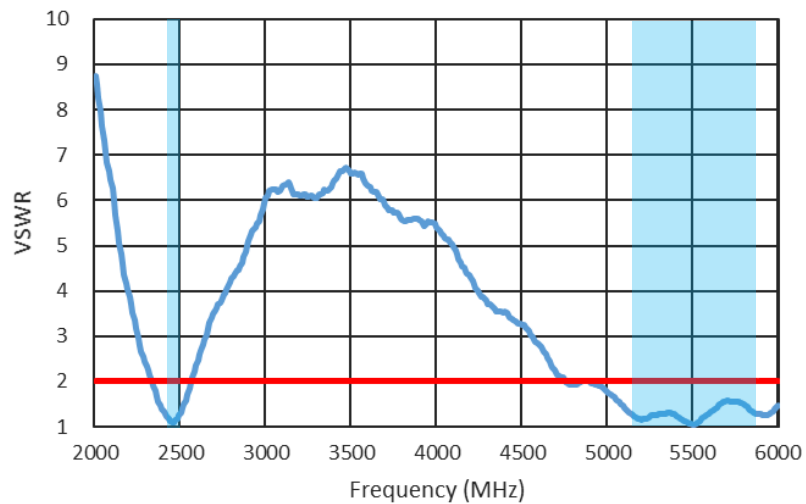
VSWR



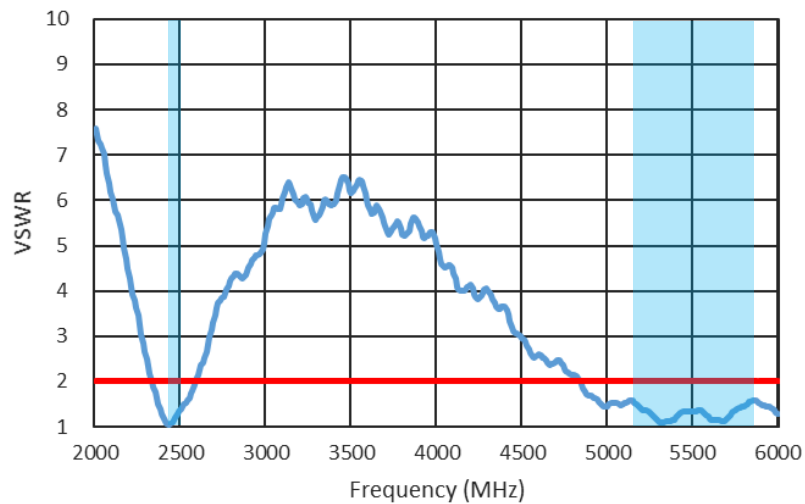
Dual1 VSWR=2



Dual2 VSWR=2

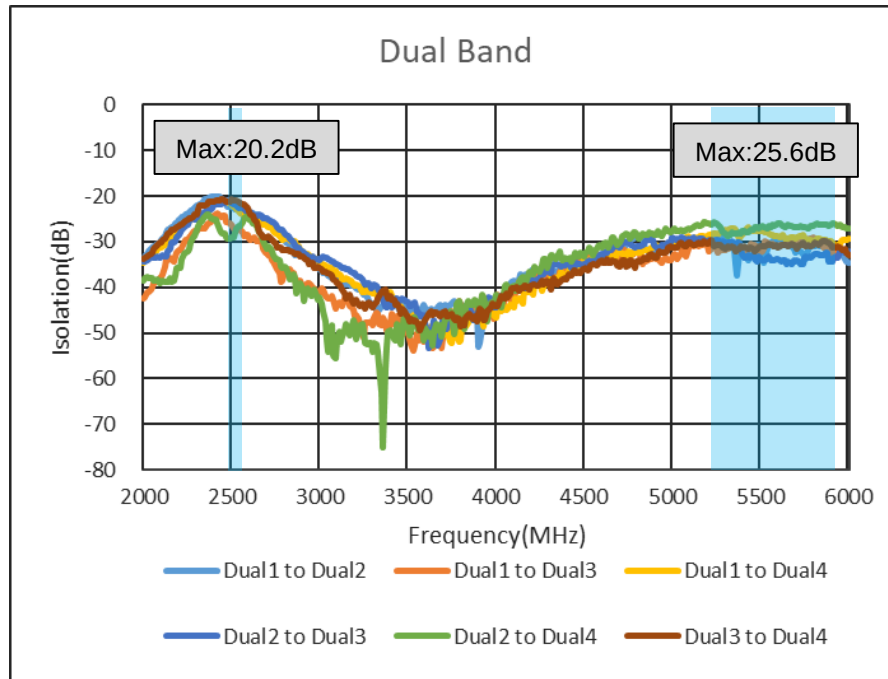


Dual3 VSWR=2



Dual4 VSWR=2

Isolation



Radiation Pattern

