



Antenna Test Report for ATKK
Model Name: AT-TQ6403 GEN2

Brand: Allied Telesis

Mar. 16. 2022

Rev.03



Summary

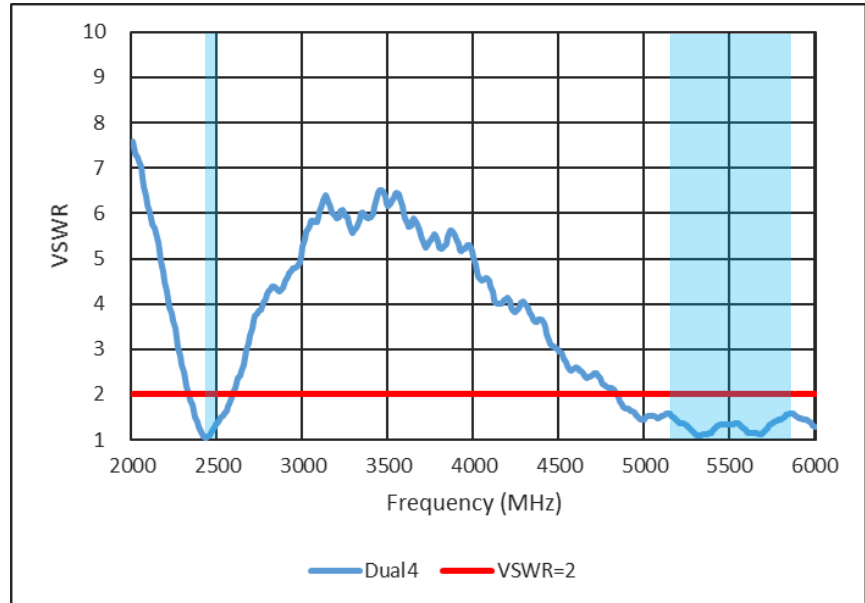
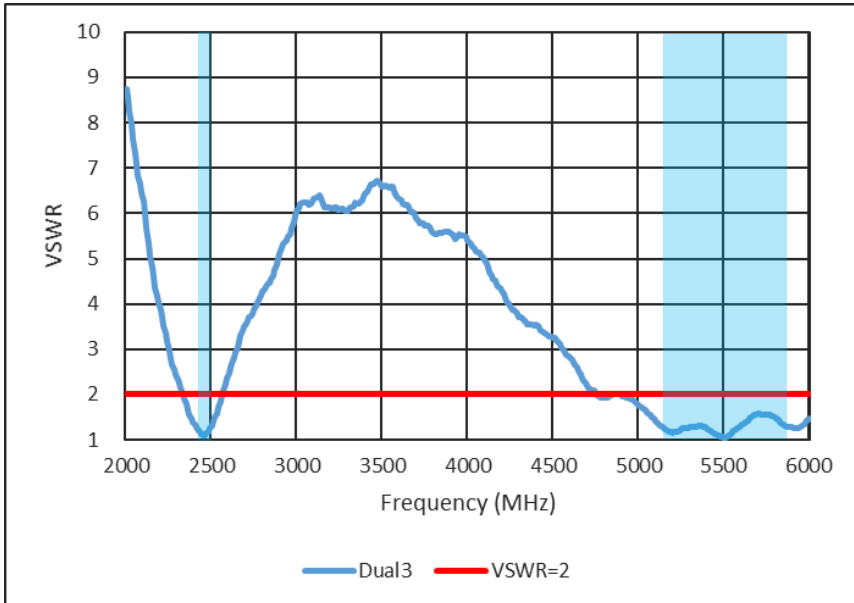
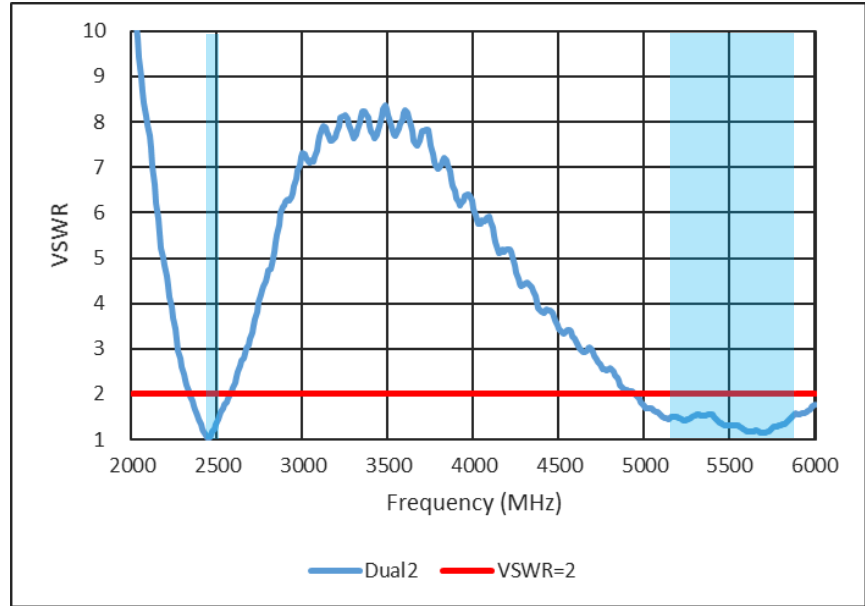
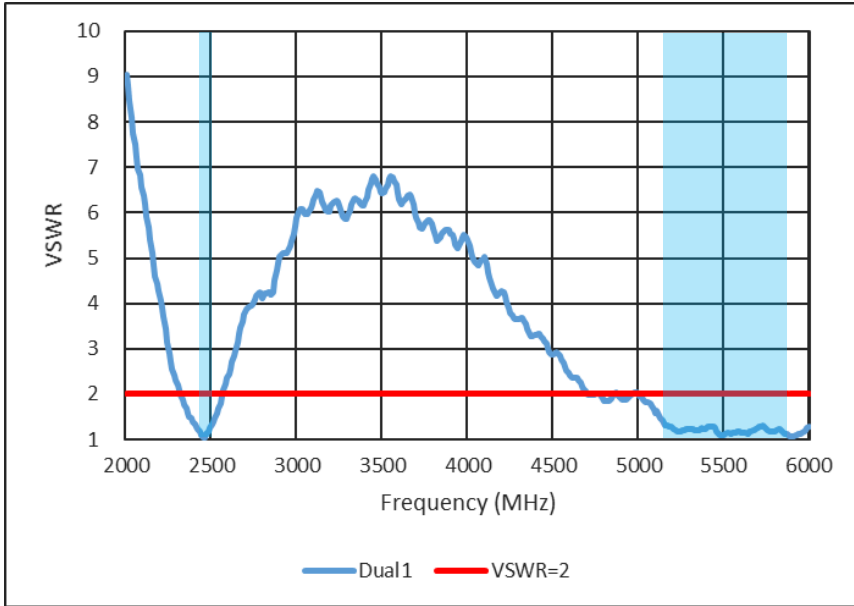
- **VSWR**
 - *Under 2.0 for Dual band 2.4GHz / 5GHz*
- **Isolation**
 - *> 20.2dB / 25.6dB for Dual band 2.4GHz / 5GHz*
- **Average Radiation efficiency**
 - *68% / 68% for Dual band 2.4GHz / 5GHz*
- **Peak gain**
 - *Max 3.49dBi/ 5.99dBi for Dual band 2.4GHz / 5GHz*

Antenna Efficiency and Peak Gain (AT-TQ6403 GEN2)

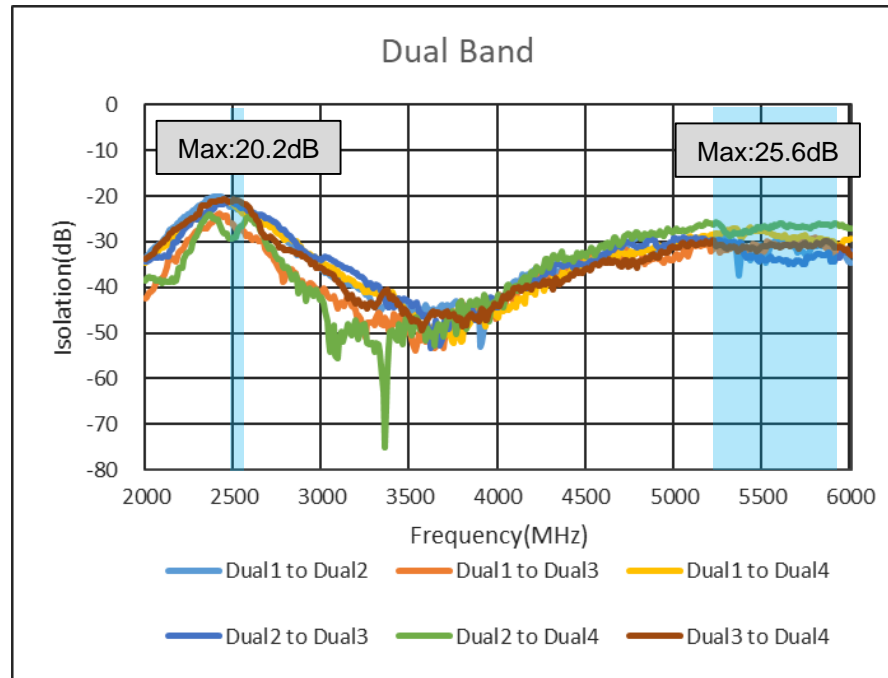
| 2G1 | 2400 | 2450 | 2500 | avg. |
|--------------|-------|-------|-------|-------|
| Eff. | 67.6% | 70.9% | 67.1% | 68.6% |
| Eff. dB | -1.70 | -1.49 | -1.73 | |
| Peak Gain | 2.84 | 2.93 | 3.33 | |
| 2G2 | 2400 | 2450 | 2500 | avg. |
| Eff. | 66.5% | 70.6% | 66.9% | 68.0% |
| Eff. dB | -1.77 | -1.51 | -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



Isolation



Radiation Pattern

