

Antenna Specification

Product Model: AP9778(US) 1.0

Version: 1.0

Manufacturer: _____

Date: _____

Checked By: _____

TP-Link Corporation Limited

Room 901, 9/F. , New East Ocean Centre,

9 Science Museum Road, Tsim Sha Tsui,

Kowloon, Hong Kong

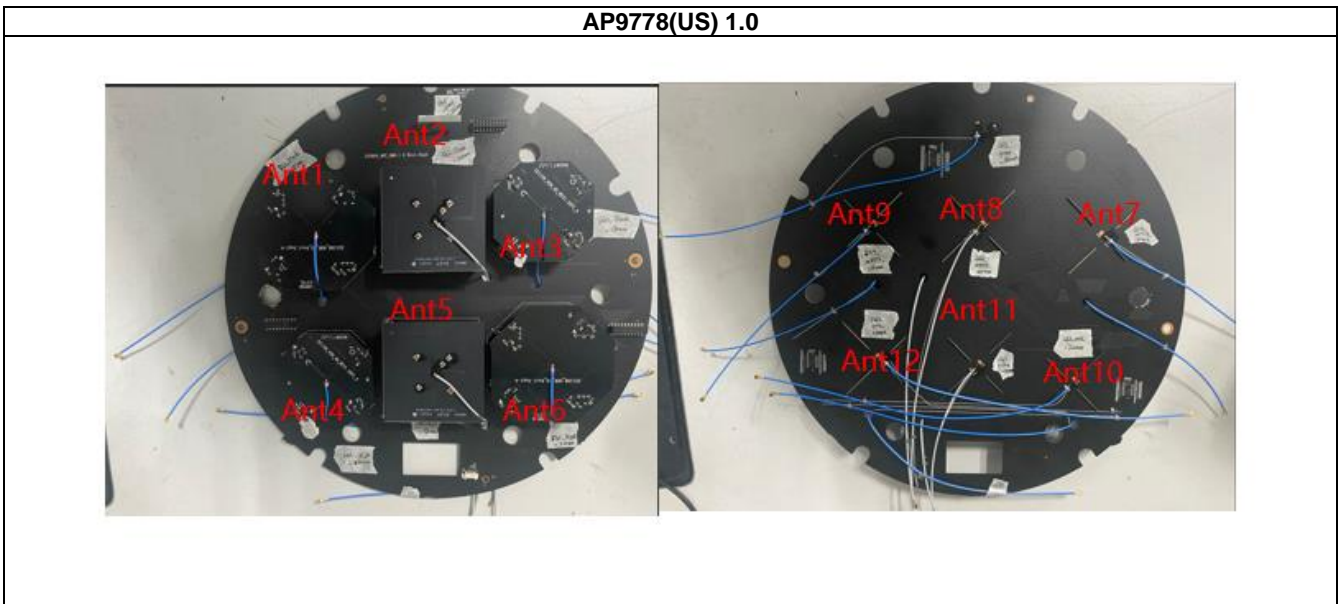
TEL: 00852-37585503

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I. Antenna Distribution



II. Electrical Characteristics

Ant1	
Frequency	5150~5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant2	
Frequency	2400~2500MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@2400~2500 MHz
Radiation pattern	Omni-Directional

Ant3	
Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@5925~7125MHz
Radiation pattern	Omni-Directional

Ant4	
Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@5925~7125MHz
Radiation pattern	Omni-Directional

Ant5	
Frequency	2400~2500MHz

Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@2400~2500 MHz
Radiation pattern	Omni-Directional

Ant6	
Frequency	5150~5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant7	
Frequency	5150~5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant8	
Frequency	2400~2500MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@2400~2500 MHz
Radiation pattern	Omni-Directional

Ant9	
Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@5925~7125MHz
Radiation pattern	Omni-Directional

Ant10	
Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@5925~7125MHz
Radiation pattern	Omni-Directional

Ant11	
Frequency	2400~2500MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@2400~2500 MHz
Radiation pattern	Omni-Directional

Ant12	
Frequency	5150~5850MHz

Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2dBi@5150~5850MHz
Radiation pattern	Omni-Directional

III. Antenna Peak Gain

Ant1												
Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700
Gain(dBi)	1.86	1.97	1.87	1.69	2.00	2.00	1.68	1.96	1.92	2.00	1.52	1.77
Freq(MHz)	5750	5800	5850									
Gain(dBi)	1.86	2.00	2.00									

Ant2												
Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	
Gain(dBi)	1.97	2.00	1.92	1.88	1.97	1.94	2.00	1.83	2.00	2.00	1.89	

Ant3												
Freq(MHz)	5925	5975	6025	6075	6125	6175	6225	6275	6325	6375	6425	6475
Gain(dBi)	1.63	1.74	2.00	1.66	1.92	2.00	1.97	1.81	2.00	2.00	1.87	2.00
Freq(MHz)	6525	6575	6625	6675	6725	6775	6825	6875	6925	6975	7025	7075
Gain(dBi)	2.00	2.00	2.00	2.00	1.93	1.85	2.00	1.78	1.65	2.00	2.00	2.00
Freq(MHz)	7125											
Gain(dBi)	1.81											

Ant4												
Freq(MHz)	5925	5975	6025	6075	6125	6175	6225	6275	6325	6375	6425	6475
Gain(dBi)	1.72	1.80	2.00	2.00	1.85	1.64	2.00	2.00	2.00	1.84	2.00	1.96
Freq(MHz)	6525	6575	6625	6675	6725	6775	6825	6875	6925	6975	7025	7075
Gain(dBi)	2.00	2.00	2.00	1.75	2.00	2.00	1.98	1.75	2.00	2.00	2.00	2.00
Freq(MHz)	7125											
Gain(dBi)	1.73											

Ant5												
Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	
Gain(dBi)	2.00	1.74	2.00	2.00	2.00	2.00	2.00	1.81	2.00	2.00	1.85	

Ant6												
Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700
Gain(dBi)	2.00	2.00	2.00	2.00	1.60	1.40	1.40	2.00	2.00	1.59	1.70	1.74
Freq(MHz)	5750	5800	5850									
Gain(dBi)	2.00	1.83	2.00									

Ant7												
Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700
Gain(dBi)	2.00	2.00	1.72	2.00	1.87	1.62	1.64	2.00	2.00	2.00	2.00	1.73
Freq(MHz)	5750	5800	5850									
Gain(dBi)	1.88	1.80	1.99									

Ant8												
Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	
Gain(dBi)	2.00	1.58	2.00	2.00	1.60	2.00	1.71	1.95	2.00	2.00	2.00	

Ant9												
Freq(MHz)	5925	5975	6025	6075	6125	6175	6225	6275	6325	6375	6425	6475
Gain(dBi)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.94	1.73	1.90	1.78	2.00
Freq(MHz)	6525	6575	6625	6675	6725	6775	6825	6875	6925	6975	7025	7075
Gain(dBi)	2.00	1.89	2.00	2.00	1.86	1.82	1.52	2.00	1.51	2.00	2.00	1.69
Freq(MHz)	7125											
Gain(dBi)	1.90											

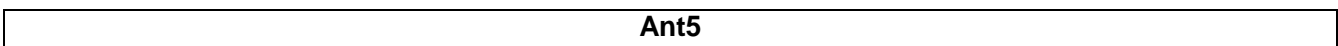
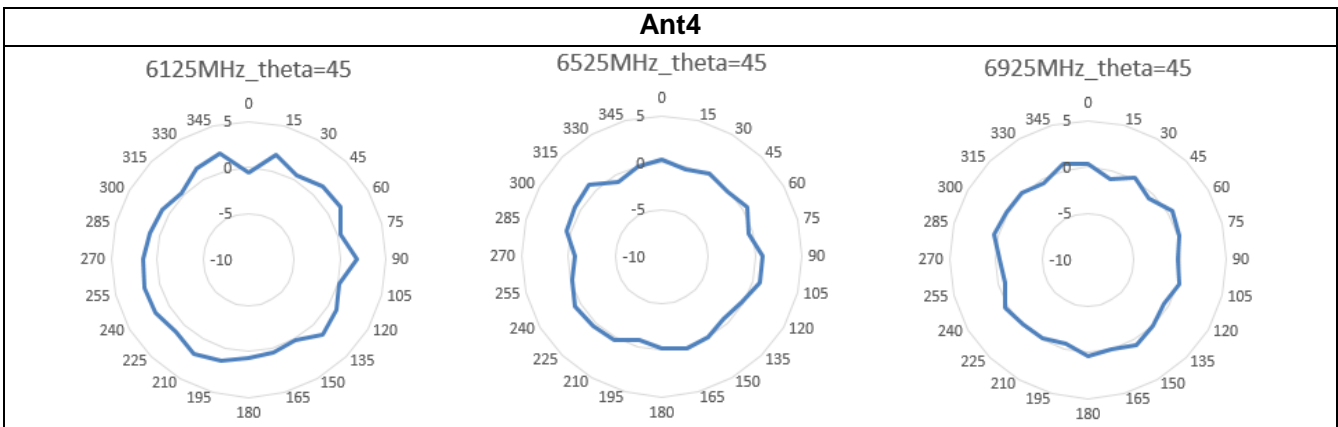
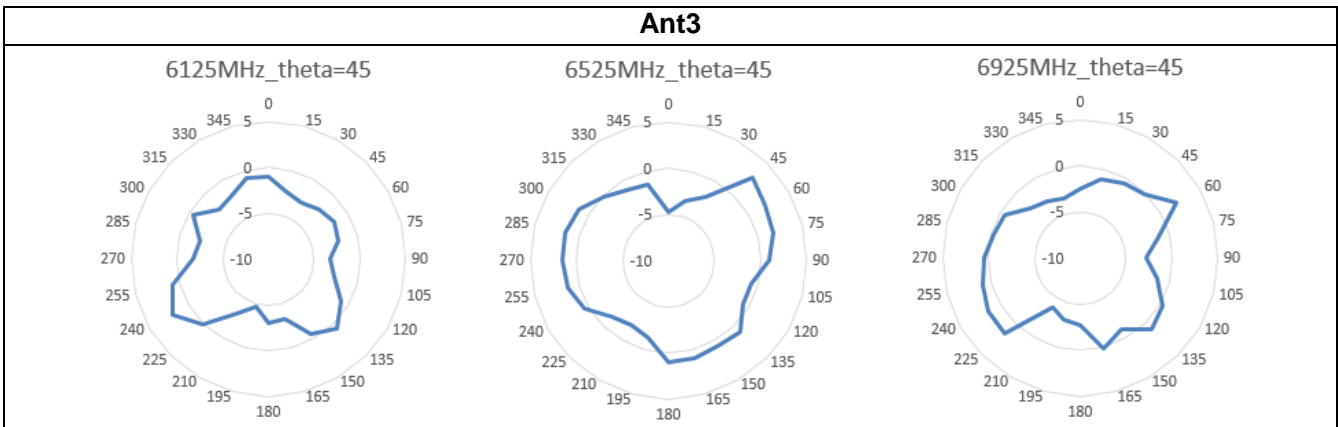
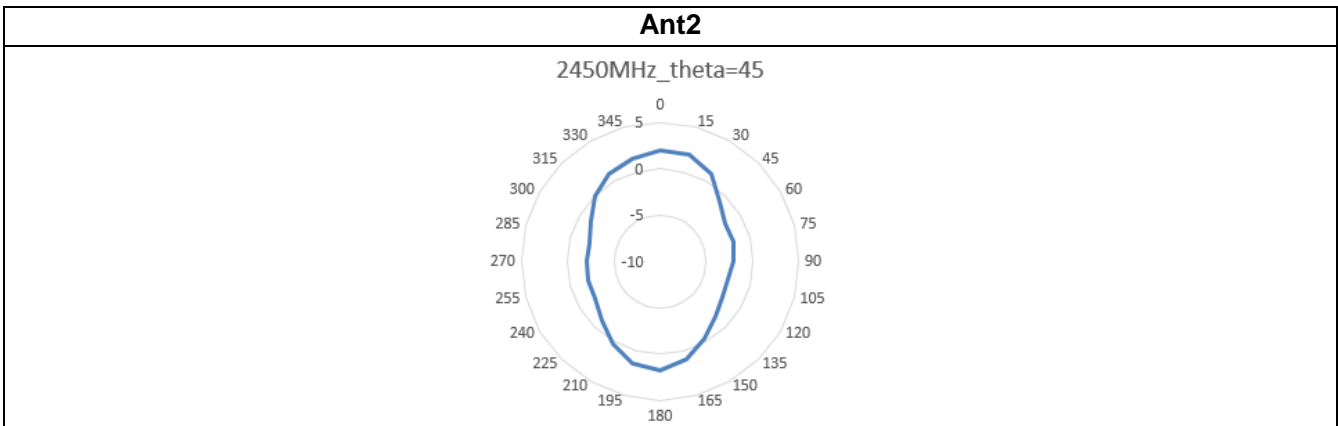
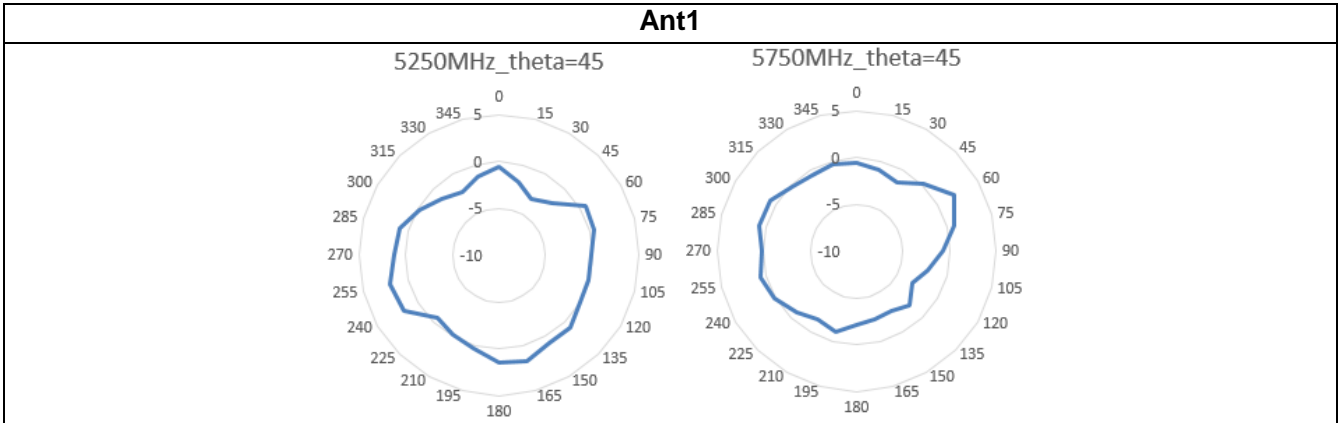
Ant10												
Freq(MHz)	5925	5975	6025	6075	6125	6175	6225	6275	6325	6375	6425	6475
Gain(dBi)	2.00	2.00	1.72	1.72	1.60	1.89	1.96	2.00	1.83	2.00	1.52	1.90
Freq(MHz)	6525	6575	6625	6675	6725	6775	6825	6875	6925	6975	7025	7075
Gain(dBi)	2.00	2.00	1.89	2.00	1.79	1.58	1.53	2.00	2.00	2.00	1.43	1.29

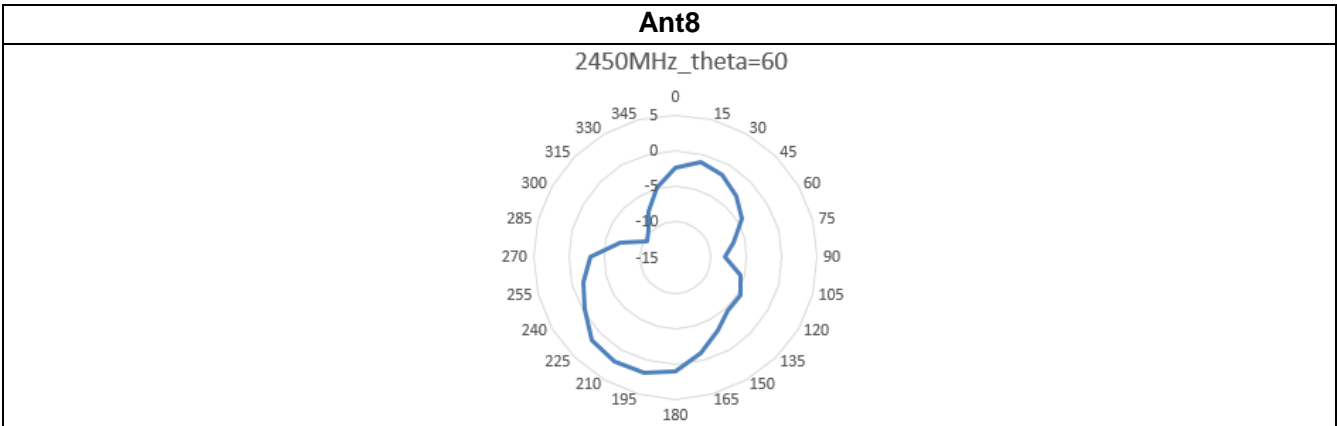
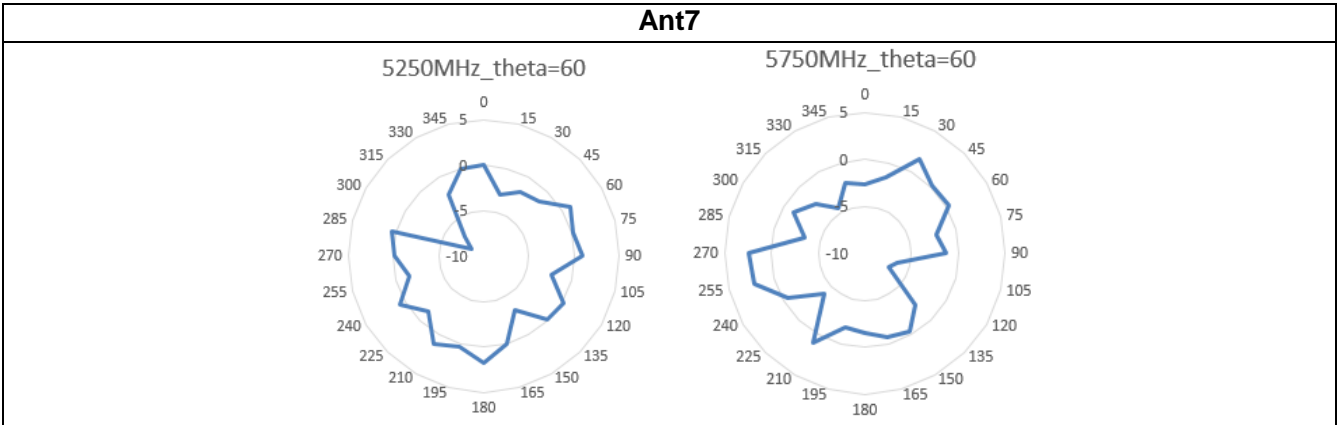
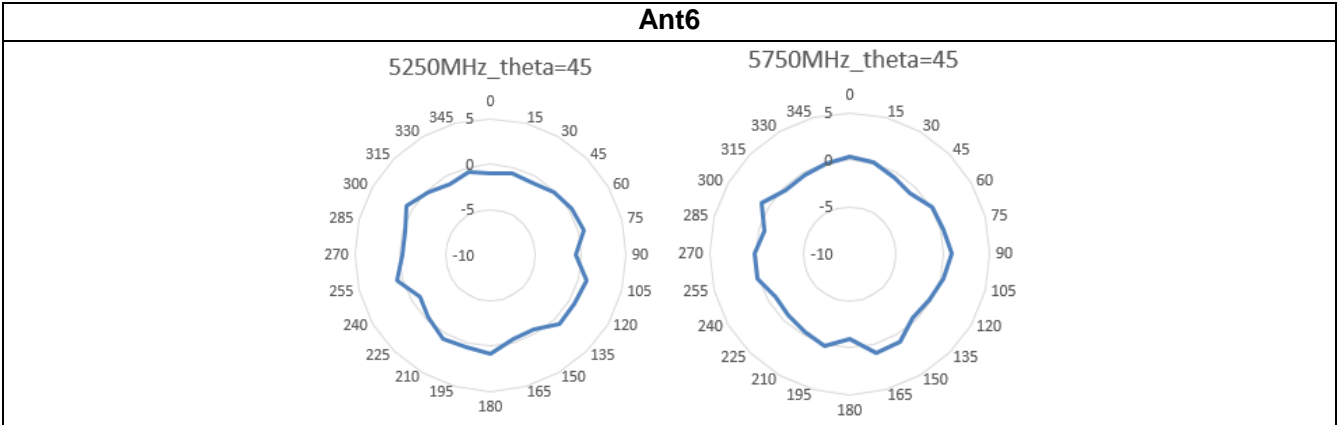
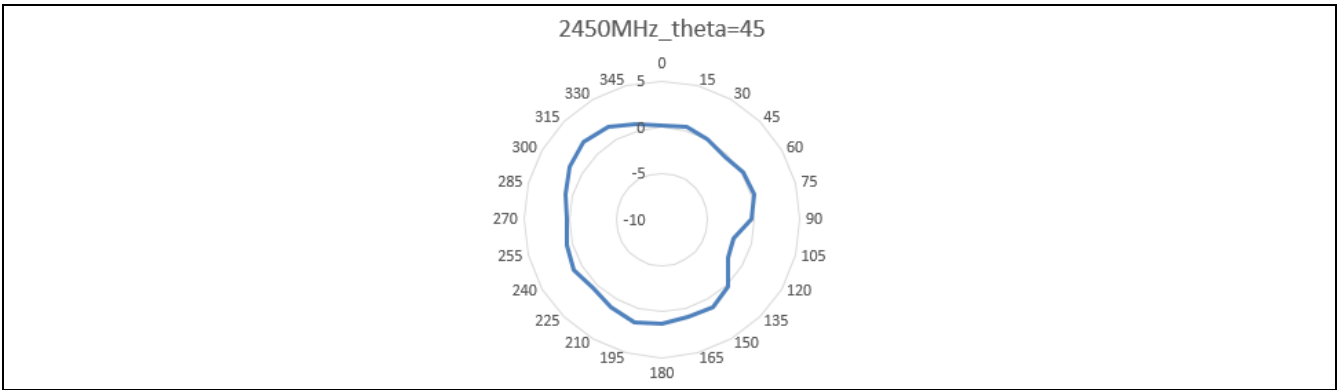
Freq(MHz)	7125											
Gain(dBi)	1.00											

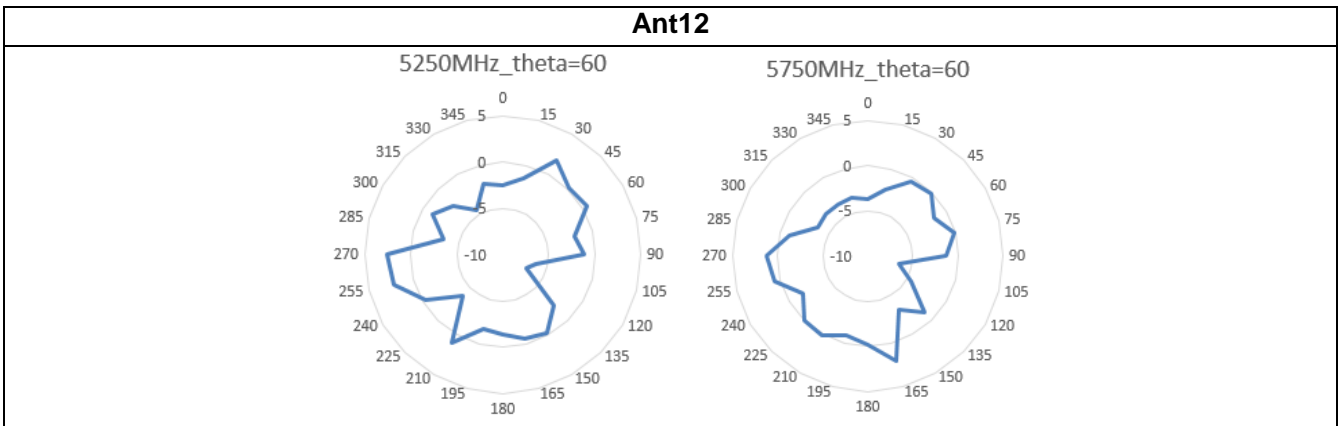
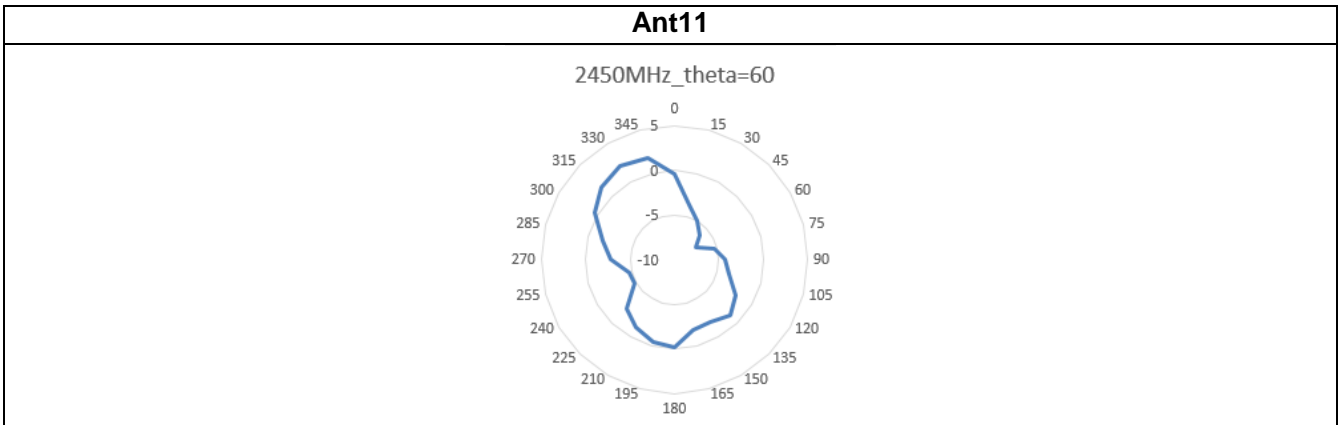
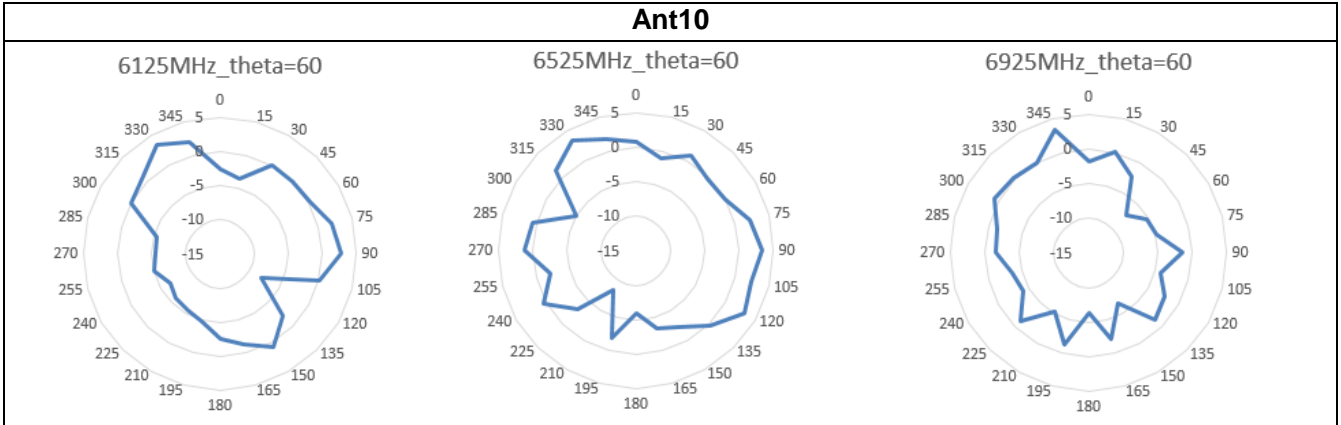
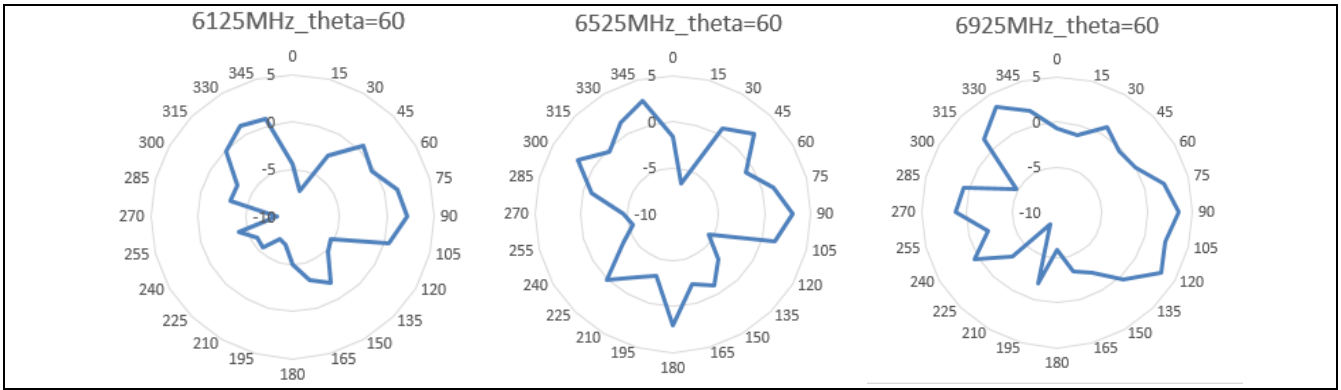
Ant11												
Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	
Gain(dBi)	1.69	1.78	1.71	1.60	1.82	1.93	1.91	1.92	1.99	2.00	1.97	

Ant12												
Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700
Gain(dBi)	1.64	1.68	1.68	2.00	1.69	1.66	1.56	2.00	1.64	1.83	2.00	1.79
Freq(MHz)	5750	5800	5850									
Gain(dBi)	1.73	1.77	2.00									

IV. Antenna Radiation Pattern







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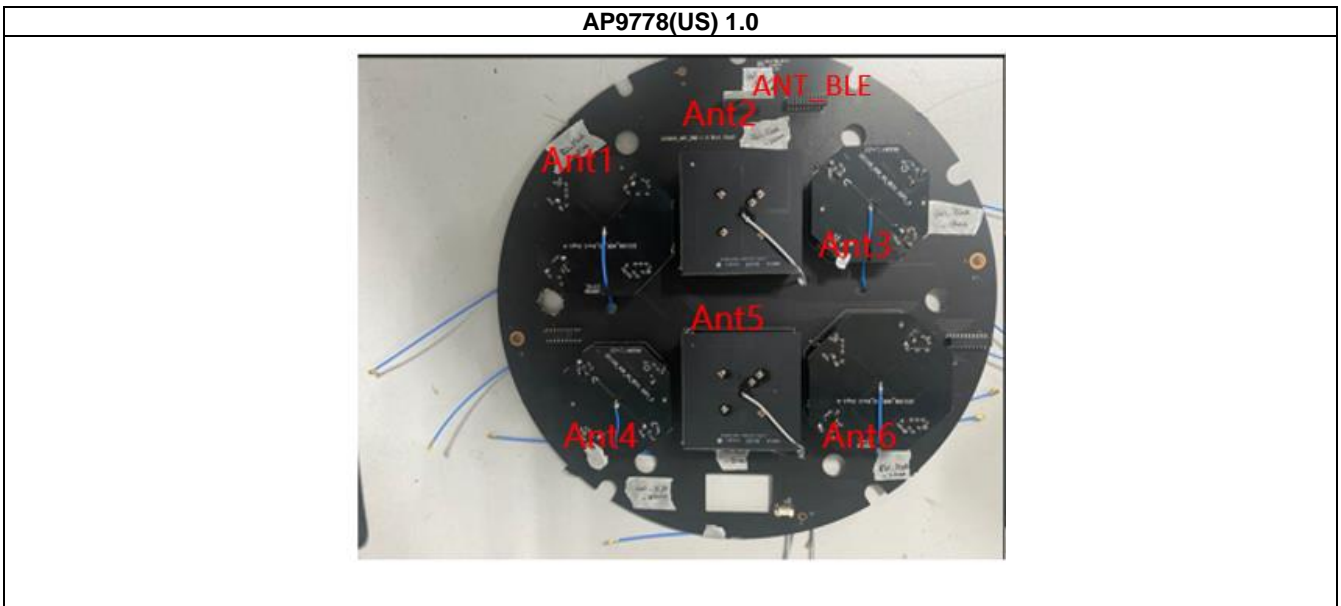
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I. Antenna Distribution



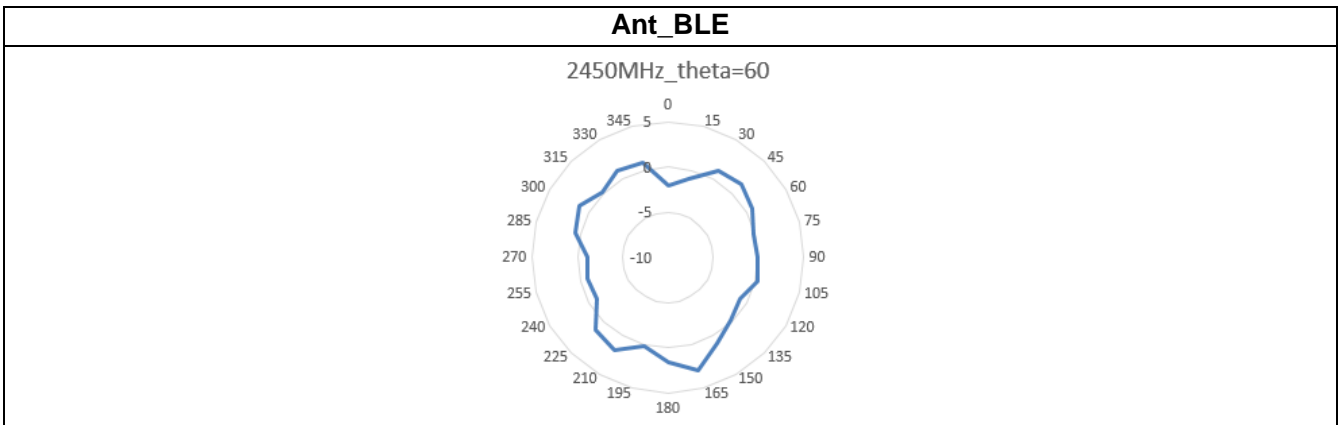
II. Electrical Characteristics

Ant_BLE	
Frequency	2400~2500MHz
Impedance	50Ohm
Antenna Type	PIFA
Antenna Gain	2dBi@2400~2500 MHz
Radiation pattern	Omni-Directional

III. Antenna Peak Gain

Ant_BLE											
Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain(dBi)	1.97	2.00	1.92	1.88	1.97	1.94	2.00	1.83	2.00	2.00	1.89

IV. Antena Radiation Pattern



2G cross polarized antenna
 Above is a horizontally polarized antenna
 Below is the vertically polarized antenna

2G 共剖面交叉极化天线
 上面为水平极化天线
 下面为垂直极化天线

6G 共剖面交叉极化天线
 上面为水平极化天线
 下面为垂直极化天线

6G cross polarized antenna

Above is a horizontally polarized antenna
 Below is the vertically polarized antenna

5G 共剖面交叉极化天线
 上面为水平极化天线
 下面为垂直极化天线

5G cross polarized antenna

Above is a horizontally polarized antenna
 Below is the vertically polarized antenna

5G 共剖面交叉极化天线
 上面为水平极化天线
 下面为垂直极化天线

5G cross polarized antenna

Above is a horizontally polarized antenna
 Below is the vertically polarized antenna

6G 共剖面交叉极化天线
 上面为水平极化天线
 下面为垂直极化天线

6G cross polarized antenna

Above is a horizontally polarized antenna
 Below is the vertically polarized antenna

2G 共剖面交叉极化天线
 上面为水平极化天线
 下面为垂直极化天线

2G cross polarized antenna
 Above is a horizontally polarized antenna
 Below is the vertically polarized antenna

