
Antenna Specification

Product Model: EX1110(US2)

Version: 1.0

Manufacturer: _____

Date: _____

Checked By: _____

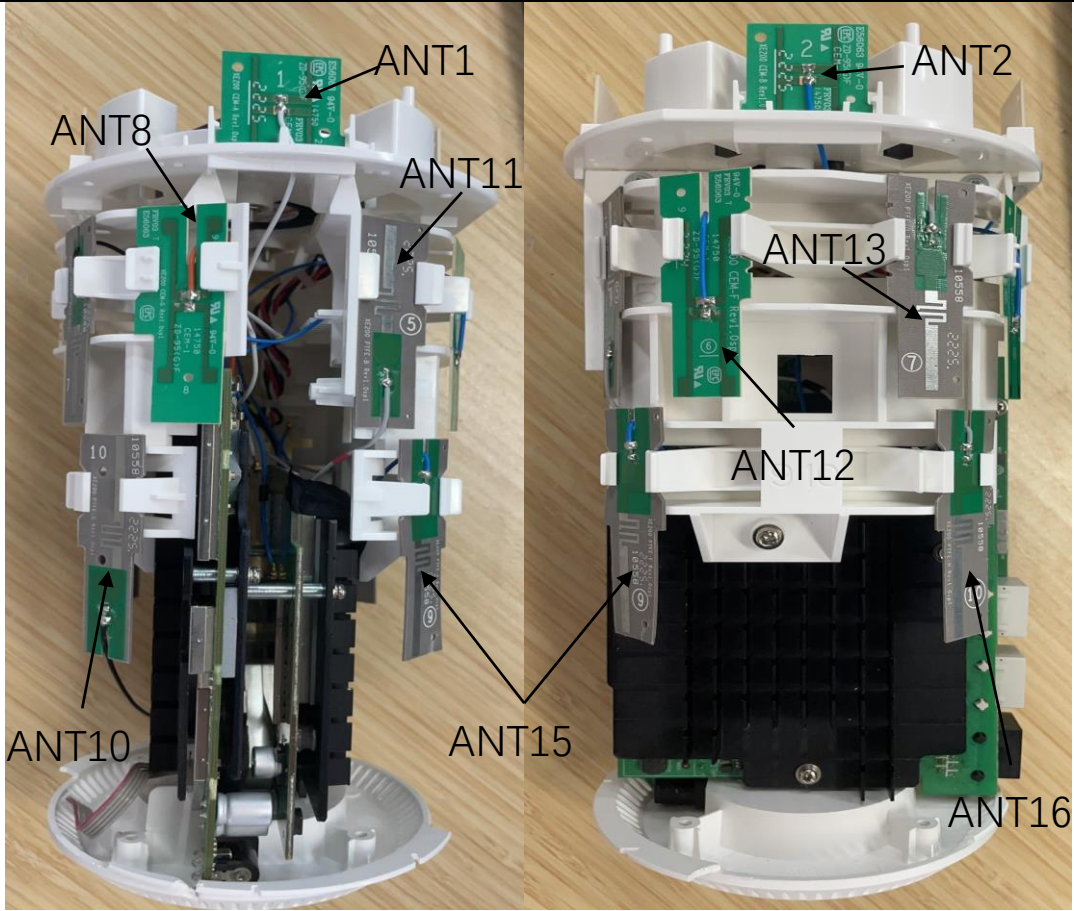
TP-Link Corporation Limited
Room 901, 9/F. , New East Ocean Centre,
9 Science Museum Road, Tsim Sha Tsui,
Kowloon, Hong Kong
TEL: 00852-37585503
<http://www.tp-link.com/en>

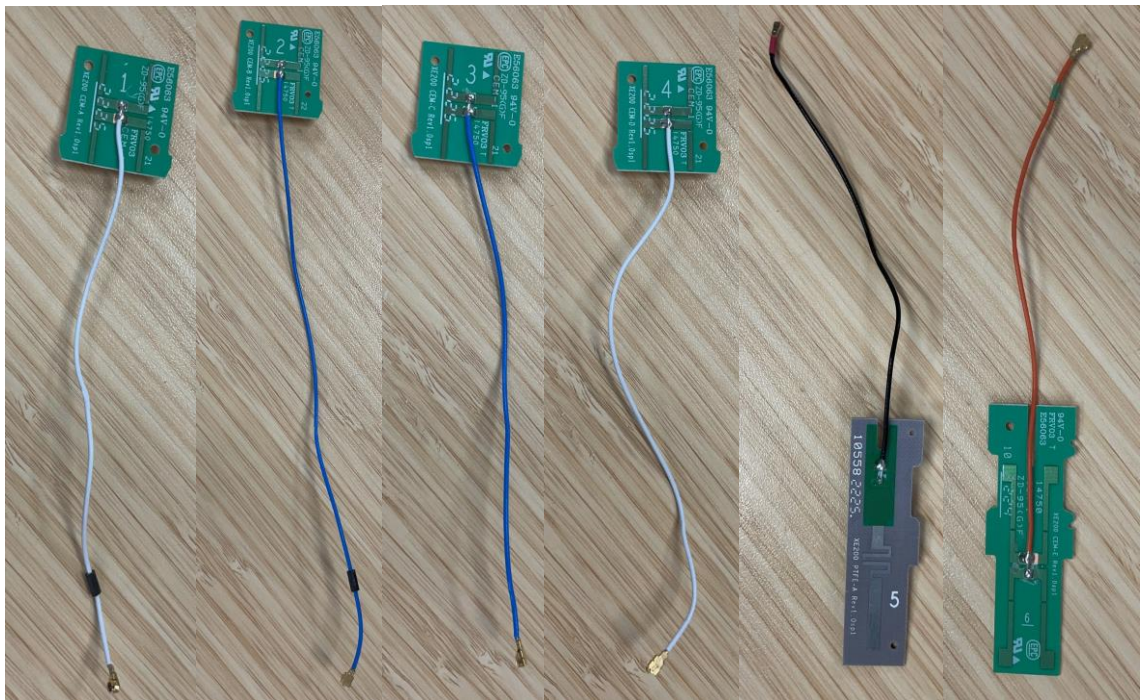
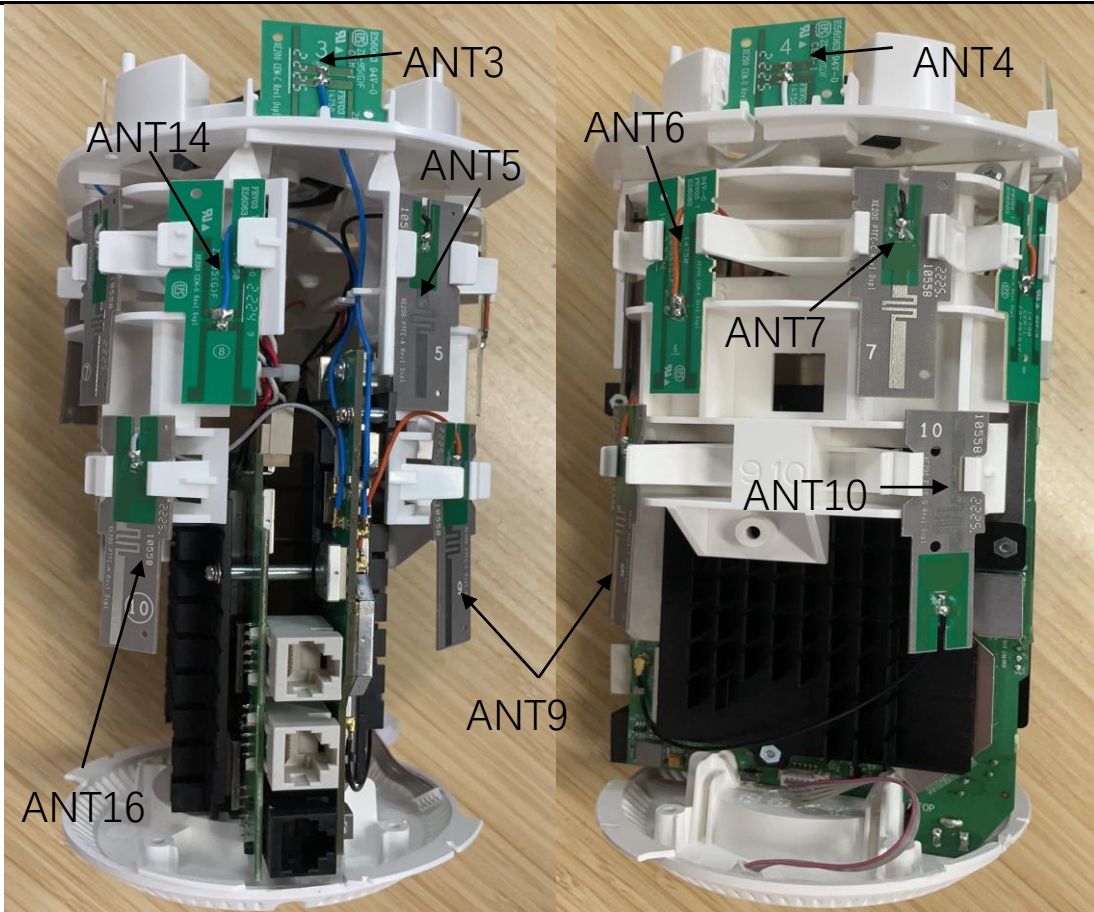
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I. Antenna Distribution

EX1110(US2)





ANT1

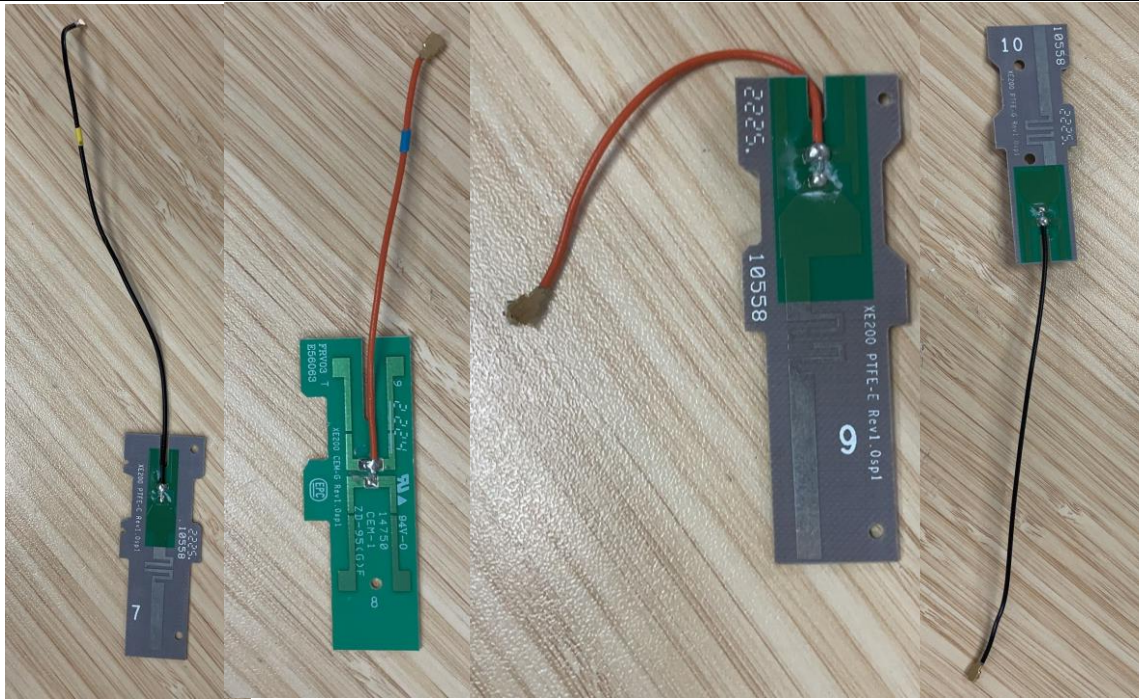
ANT2

ANT3

ANT4

ANT5

ANT6

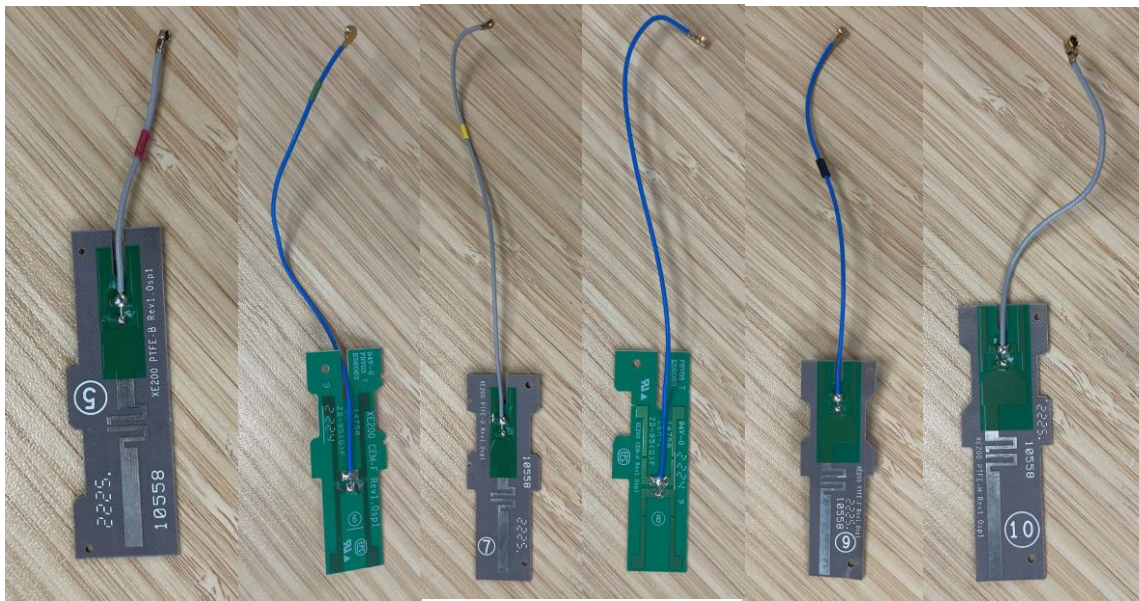


ANT7

ANT8

ANT9

ANT10



ANT11

ANT12

ANT13

ANT14

ANT15

ANT16

II. Electrical Characteristics

Ant1	
Frequency	5150 ~ 5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	0.97dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant2	
Frequency	5150 ~ 5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	0.97dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant3	
Frequency	5150 ~ 5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	0.97dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant4	
Frequency	5150 ~ 5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	0.97dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant5	
Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.97dBi@5925~7125MHz
Radiation pattern	Omni-Directional

Ant6	
Frequency	2400 ~ 2500MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.97dBi@2400 ~ 2500MHz
Radiation pattern	Omni-Directional

Ant7	
Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.99dBi@5925~7125MHz
Radiation pattern	Omni-Directional

Ant8	
Frequency	2400 ~ 2500MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.96dBi@2400 ~ 2500MHz
Radiation pattern	Omni-Directional

Ant9	
Frequency	5150 ~ 5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.99dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant10	
Frequency	5150 ~ 5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.96dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant11	
Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.97dBi@5925~7125MHz
Radiation pattern	Omni-Directional

Ant12	
Frequency	2400 ~ 2500MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.81dBi@2400 ~ 2500MHz
Radiation pattern	Omni-Directional

Ant13	
Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.96dBi@5925~7125MHz
Radiation pattern	Omni-Directional

Ant14	
Frequency	2400 ~ 2500MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.96dBi@2400 ~ 2500MHz
Radiation pattern	Omni-Directional

Ant15	
Frequency	5150 ~ 5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.96dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant16	
Frequency	5150 ~ 5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.96dBi@5150~5850MHz
Radiation pattern	Omni-Directional

III. Antenna Peak Gain

Ant1											
Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Gain(dBi)	0.42	0.94	0.97	0.64	0.23	0.63	0.22	0.64	0.26	0.23	0.61
Frequency(MHz)	5700	5750	5800	5850							
Gain(dBi)	0.55	0.24	0.42	0.12							

Ant2											
Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Gain(dBi)	0.72	0.91	0.64	0.16	0.11	0.37	0.15	0.25	0.32	0.39	0.64
Frequency(MHz)	5700	5750	5800	5850							
Gain(dBi)	0.45	0.97	0.45	0.63							

Ant3											
Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Gain(dBi)	0.46	0.72	0.57	0.75	0.94	0.77	0.62	0.31	0.34	0.12	0.43
Frequency(MHz)	5700	5750	5800	5850							
Gain(dBi)	0.69	0.97	0.93	0.82							

Ant4											
Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Gain(dBi)	0.68	0.97	0.94	0.92	0.73	0.43	0.12	-0.36	-1.12	0.04	0.46
Frequency(MHz)	5700	5750	5800	5850							
Gain(dBi)	0.77	0.78	0.64	0.54							

Ant5											
Frequency(MHz)	5925	5975	6025	6075	6125	6175	6225	6275	6325	6375	6425
Gain(dBi)	1.06	1.15	1.42	1.66	1.69	1.83	1.77	1.70	1.62	1.63	1.77
Frequency(MHz)	6475	6525	6575	6625	6675	6725	6775	6825	6875	6925	6975
Gain(dBi)	1.83	1.81	1.73	1.80	1.81	1.96	1.97	1.85	1.96	1.90	1.97
Frequency(MHz)	7025	7075	7125								
Gain(dBi)	1.92	1.88	1.81								

Ant6											
Frequency(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain(dBi)	1.91	1.84	1.77	1.62	1.58	1.70	1.85	1.91	1.95	1.97	1.96

Ant7											
Frequency(MHz)	5925	5975	6025	6075	6125	6175	6225	6275	6325	6375	6425
Gain(dBi)	1.34	1.39	1.24	1.53	1.61	1.89	1.99	1.98	1.99	1.89	1.74
Frequency(MHz)	6475	6525	6575	6625	6675	6725	6775	6825	6875	6925	6975
Gain(dBi)	1.72	1.73	1.70	1.61	1.65	1.51	1.69	1.79	1.80	1.62	1.54
Frequency(MHz)	7025	7075	7125								
Gain(dBi)	1.47	1.49	1.54								

Ant8											
Frequency(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain(dBi)	1.64	1.64	1.76	1.84	1.92	1.91	1.93	1.96	1.91	1.84	1.86

Ant9											
Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Gain(dBi)	1.55	1.69	1.54	1.30	1.28	1.55	1.93	1.98	1.99	1.91	1.87
Frequency(MHz)	5700	5750	5800	5850							
Gain(dBi)	1.89	1.94	1.86	1.73							

Ant10											
Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Gain(dBi)	1.94	1.96	1.93	1.58	1.91	1.93	1.59	1.26	1.44	1.55	1.37
Frequency(MHz)	5700	5750	5800	5850							
Gain(dBi)	1.36	1.77	1.76	1.54							

Ant11											
Frequency(MHz)	5925	5975	6025	6075	6125	6175	6225	6275	6325	6375	6425
Gain(dBi)	1.15	1.18	1.12	1.45	1.59	1.67	1.41	1.46	1.55	1.59	1.70
Frequency(MHz)	6475	6525	6575	6625	6675	6725	6775	6825	6875	6925	6975
Gain(dBi)	1.71	1.74	1.70	1.76	1.78	1.77	1.79	1.87	1.93	1.97	1.94
Frequency(MHz)	7025	7075	7125								
Gain(dBi)	1.88	1.83	1.83								

Ant12											
Frequency(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain(dBi)	1.70	1.67	1.66	1.69	1.63	1.76	1.77	1.81	1.77	1.69	1.73

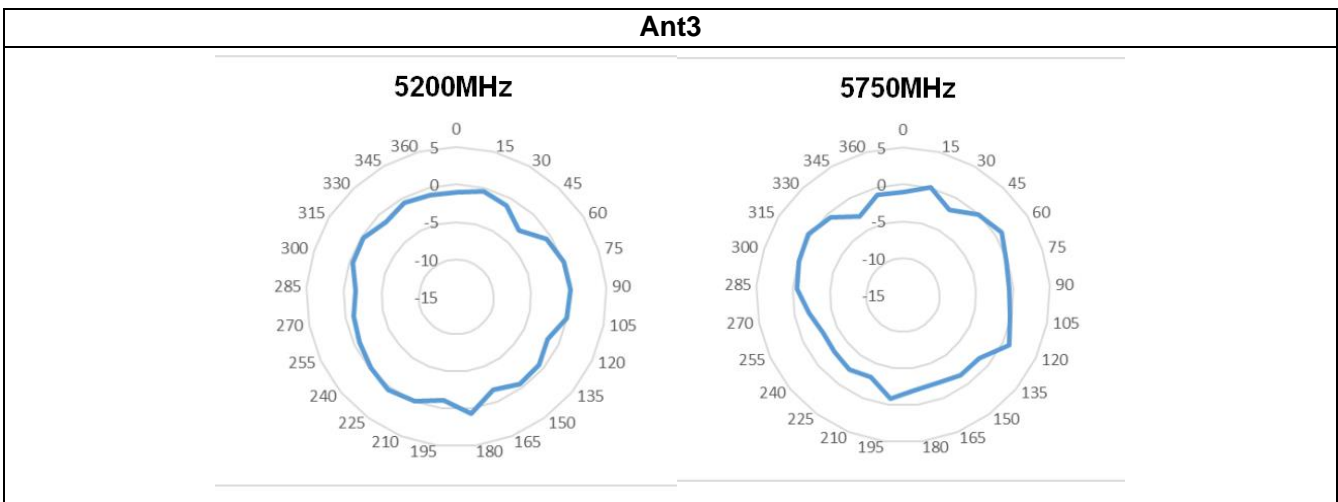
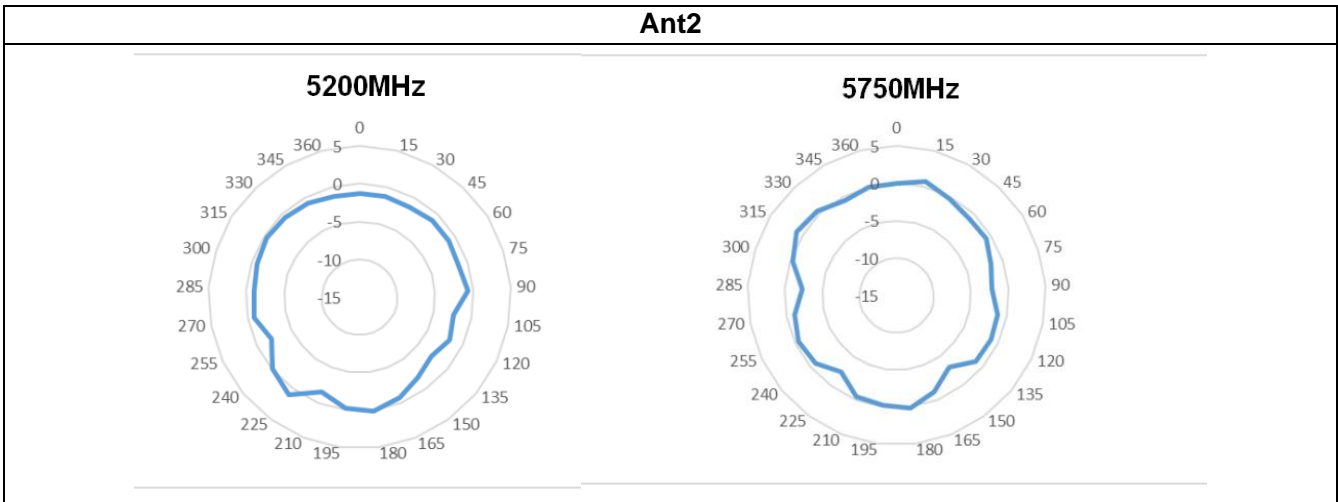
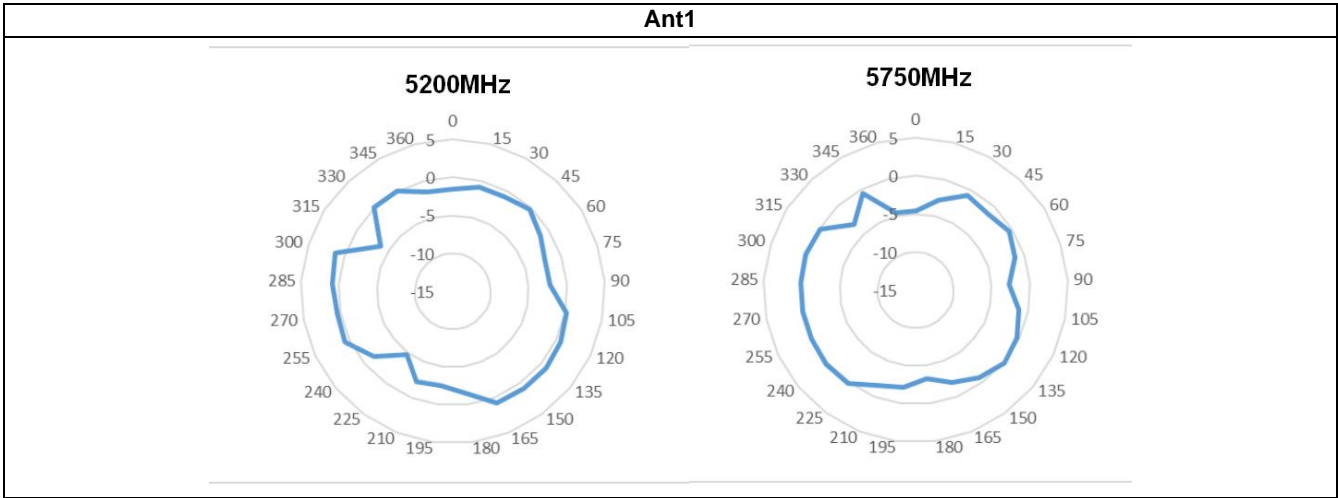
Ant13											
Frequency(MHz)	5925	5975	6025	6075	6125	6175	6225	6275	6325	6375	6425
Gain(dBi)	1.11	1.14	1.23	1.58	1.82	1.96	1.89	1.75	1.76	1.65	1.59
Frequency(MHz)	6475	6525	6575	6625	6675	6725	6775	6825	6875	6925	6975
Gain(dBi)	1.67	1.69	1.76	1.74	1.80	1.85	1.85	1.86	1.83	1.78	1.83
Frequency(MHz)	7025	7075	7125								
Gain(dBi)	1.76	1.77	1.83								

Ant14											
Frequency(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain(dBi)	1.33	1.48	1.54	1.66	1.69	1.76	1.81	1.86	1.91	1.94	1.96

Ant15											
Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Gain(dBi)	1.26	1.92	1.95	1.64	1.37	1.81	1.85	1.83	1.81	1.57	1.86
Frequency(MHz)	5700	5750	5800	5850							
Gain(dBi)	1.87	1.96	1.82	1.66							

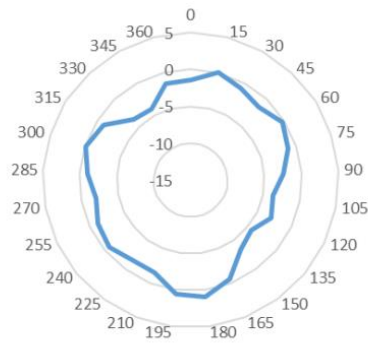
Ant16											
Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Gain(dBi)	1.12	1.34	1.54	1.49	1.44	1.55	1.57	1.67	1.94	1.96	1.84
Frequency(MHz)	5700	5750	5800	5850							
Gain(dBi)	1.82	1.85	1.86	1.92							

IV. Antenna Radiation Pattern

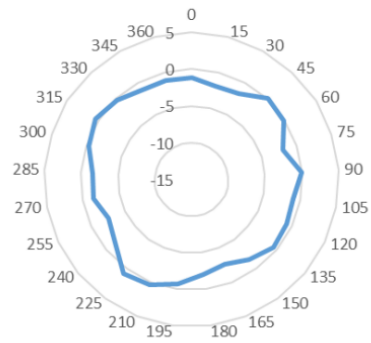


Ant4

5200MHz

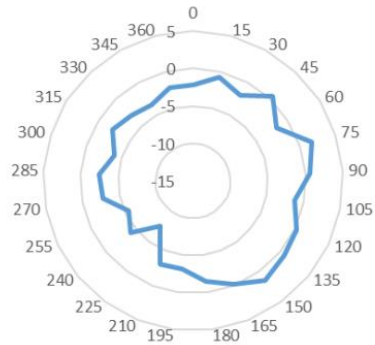


5750MHz

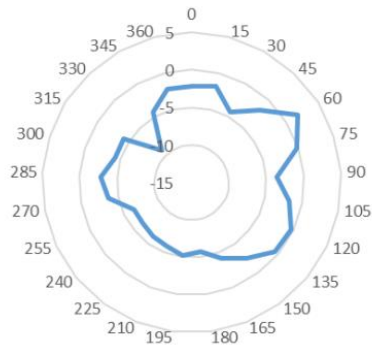


Ant5

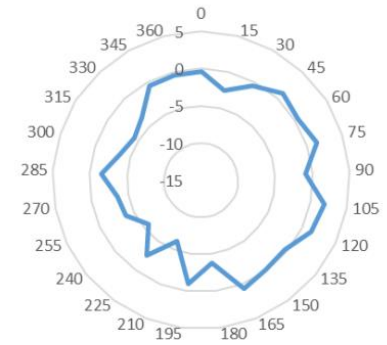
6125MHz



6525MHz

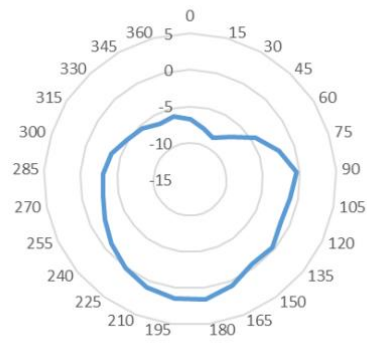


6925MHz



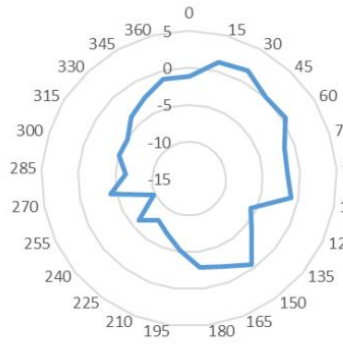
Ant6

2440MHz

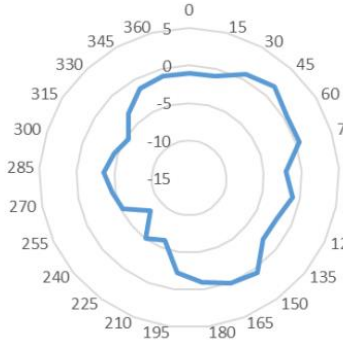


Ant7

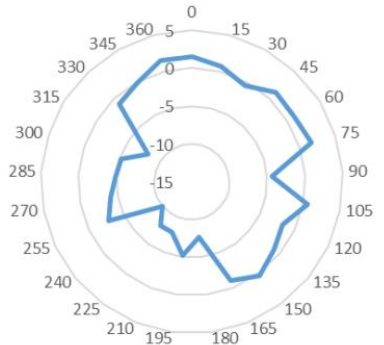
6125MHz



6525MHz

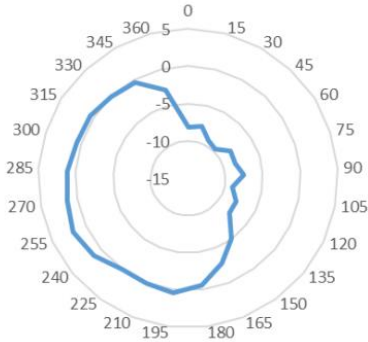


6925MHz



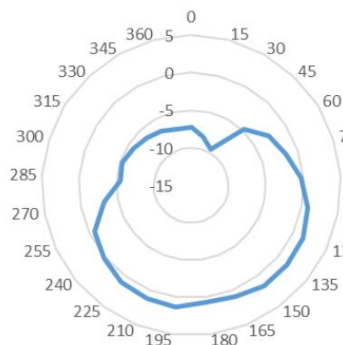
Ant8

2440MHz

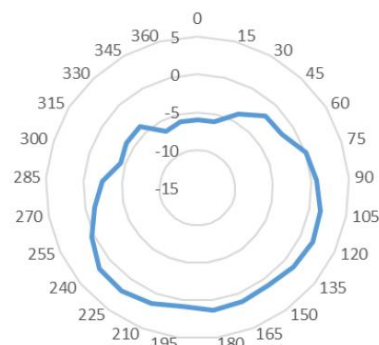


Ant9

5200MHz

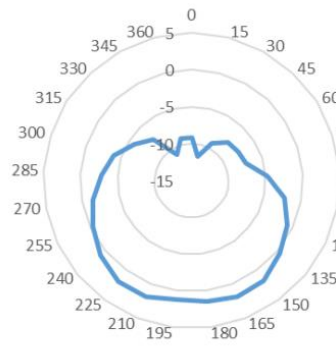


5750MHz

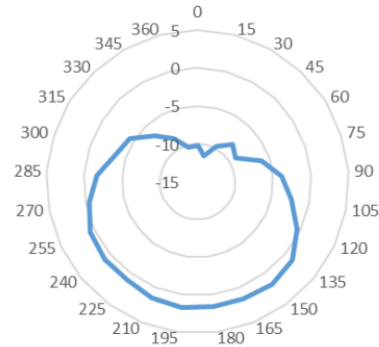


Ant10

5200MHz

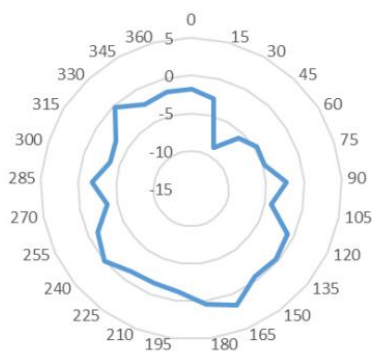


5750MHz

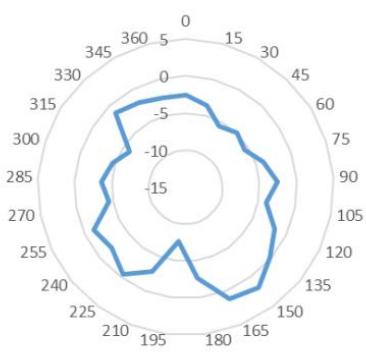


Ant11

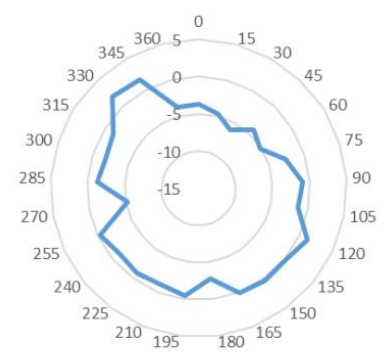
6125MHz



6525MHz

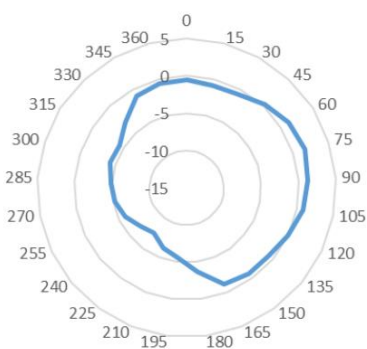


6925MHz



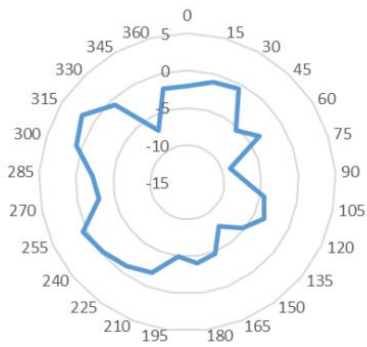
Ant12

2440MHz

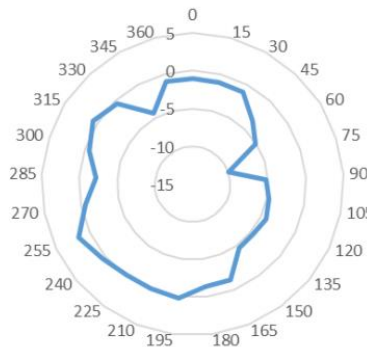


Ant13

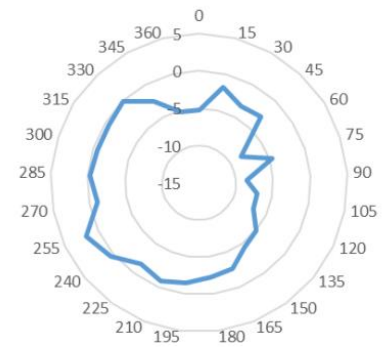
6125MHz



6525MHz

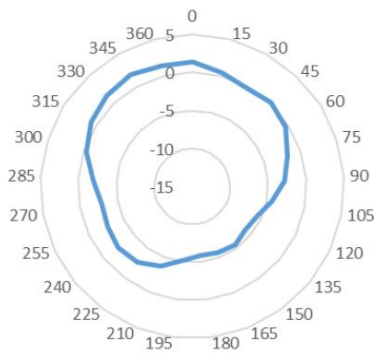


6925MHz



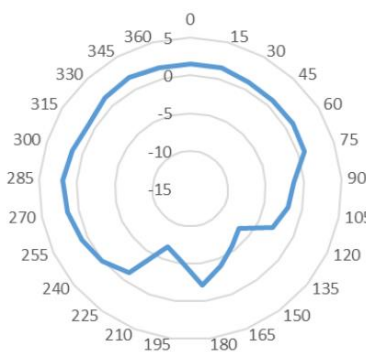
Ant14

theta=90°

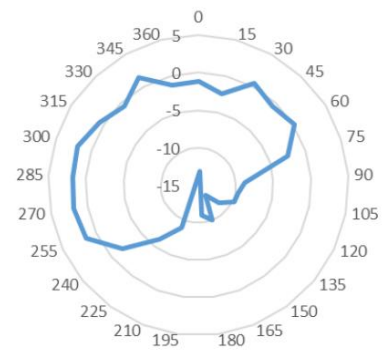


Ant15

5200MHz

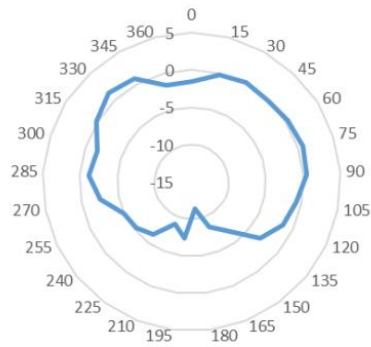


5750MHz



Ant16

5200MHz



5750MHz

