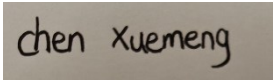


AUT Report

Product Model: EAP725 Outdoor

Manufacturer: TP-Link Systems Inc.

Test Date: 2025.6.16

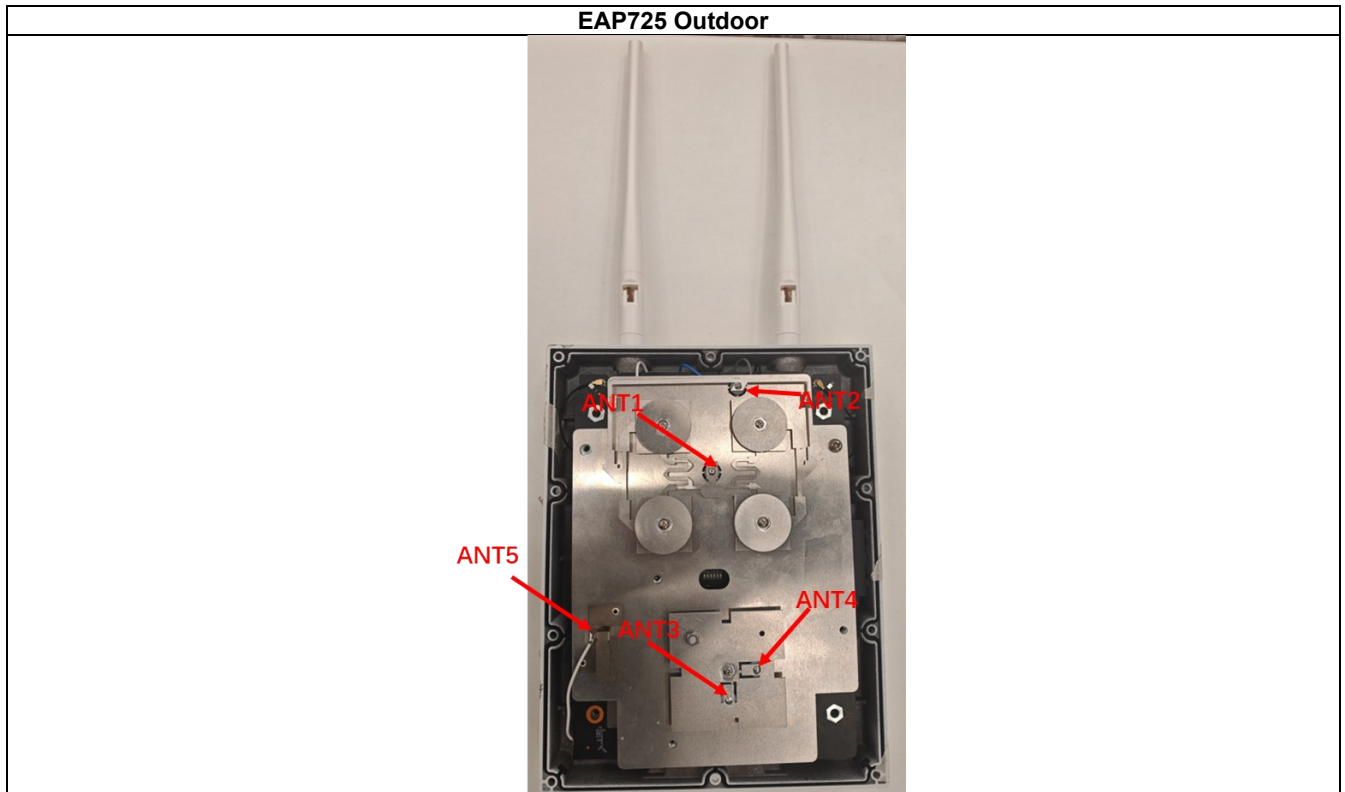
Tested By: Chen Xuemeng 

TP-Link Systems Inc.
10 Mauchly, Irvine, CA 92618

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1. Antenna Distribution



2. Electrical Characteristics

Ant1 (WiFi ANT)	
Frequency	5150~5895MHz
Impedance	50Ohm
Antenna Type	Microstrip
Antenna Gain	12.74dBi@5150~5250MHz 12.74dBi@5250~5350MHz 13.18dBi@5470~5725MHz 13.18dBi@5725~5895MHz
Radiation pattern	Directional
P/N	3100000208

Ant2 (WiFi ANT)	
Frequency	5150~5895MHz
Impedance	50Ohm
Antenna Type	Microstrip
Antenna Gain	12.35dBi@5150~5250MHz 12.35dBi@5250~5350MHz 12.67dBi@5470~5725MHz 12.67dBi@5725~5895MHz
Radiation pattern	Directional
P/N	3100000208

Ant3 (WiFi ANT)	
Frequency	2400~2500 MHz
Impedance	50Ohm
Antenna Type	Microstrip

Antenna Gain	8.24dBi@2400~2500MHz
Radiation pattern	Directional
P/N	3100000208

Ant4 (WiFi ANT)	
Frequency	2400~2500 MHz
Impedance	50Ohm
Antenna Type	Microstrip
Antenna Gain	8.33dBi@2400~2500MHz
Radiation pattern	Directional
P/N	3100000208

Ant5 (BLE ANT)	
Frequency	2400~2500 MHz
Impedance	50Ohm
Antenna Type	PIFA
Antenna Gain	3.61dBi@2400~2500MHz
Radiation pattern	Omni-Directional
P/N	3100000208

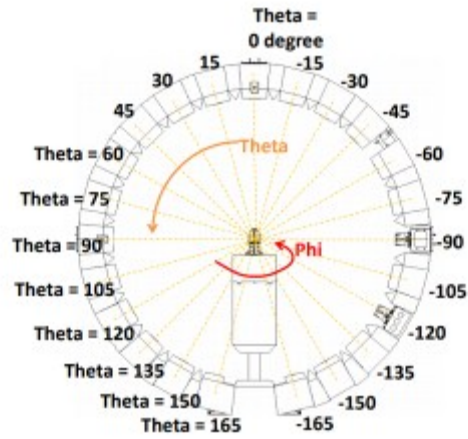


Figure 3-2

Before the measurement, calibrated the vector network analyzer, and then connected the input end of each antenna to the output end of the vector network analyzer, and evenly the antennas to be measured.

Test Equipment listed below:

Equipments	Model	Manufacturer	S/N	Cali. Interval	Cali. Due Date
Chamber	Rayzone2800	GTS(General Test System)	MY5347043 5	12months	2026/01/15
Vector Network Analyzer	E5071C	Keysight	MY46315238	24months	2026/03/13
GTS MaxSign100 Software	V2.1	GTS(General Test System)	/	/	/

3.2 Test Setup

The test setup was shown in Figure 3-3, 3-4:

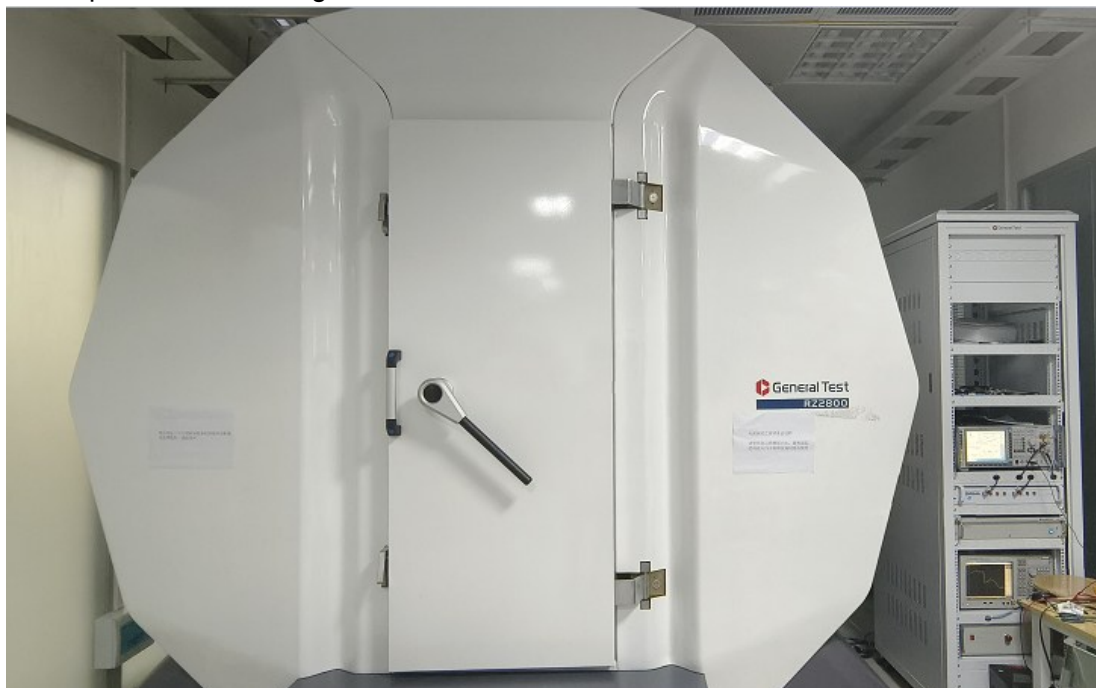


Figure 3-3

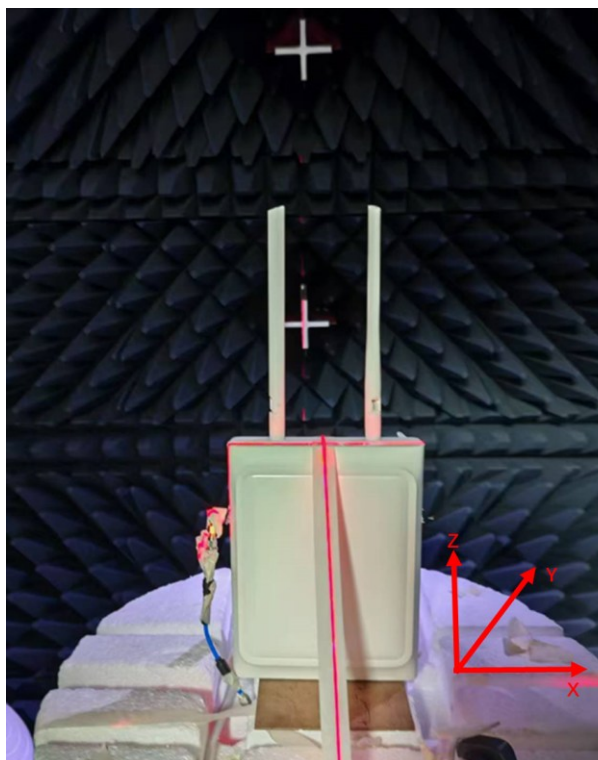
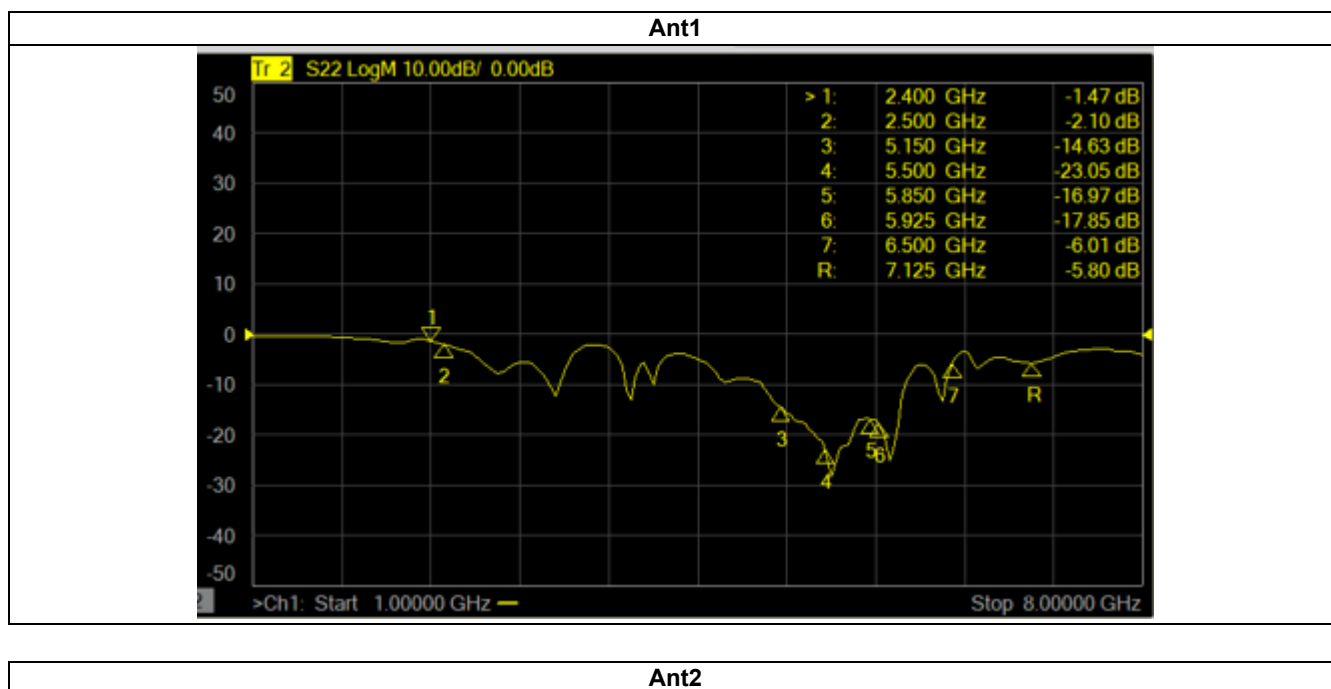
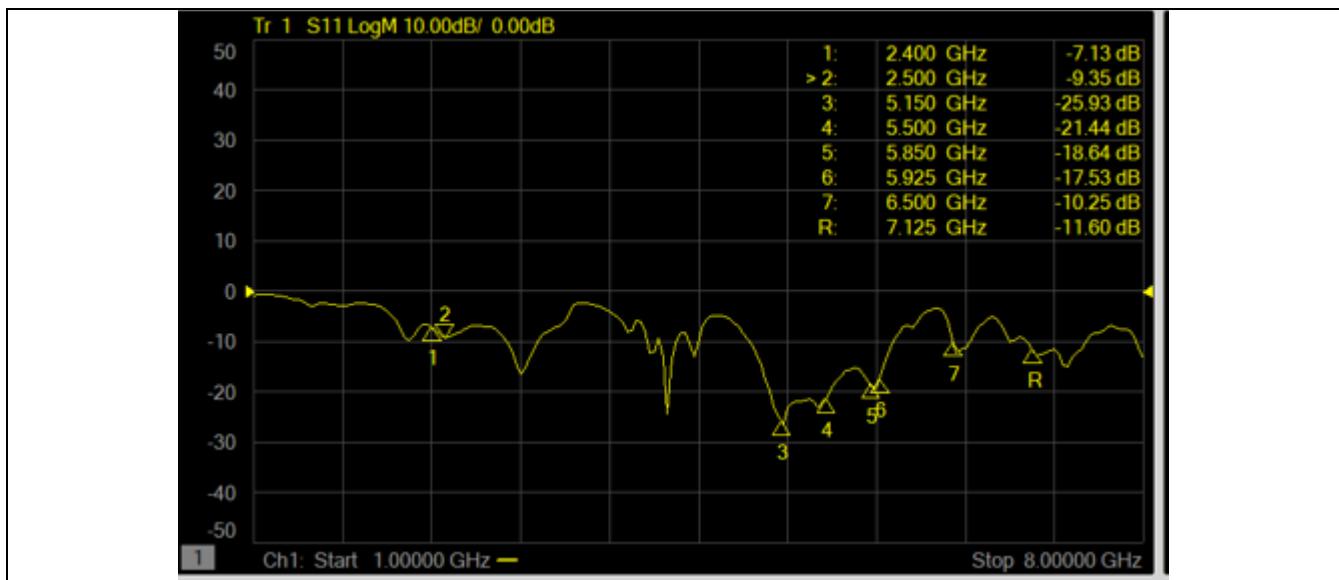


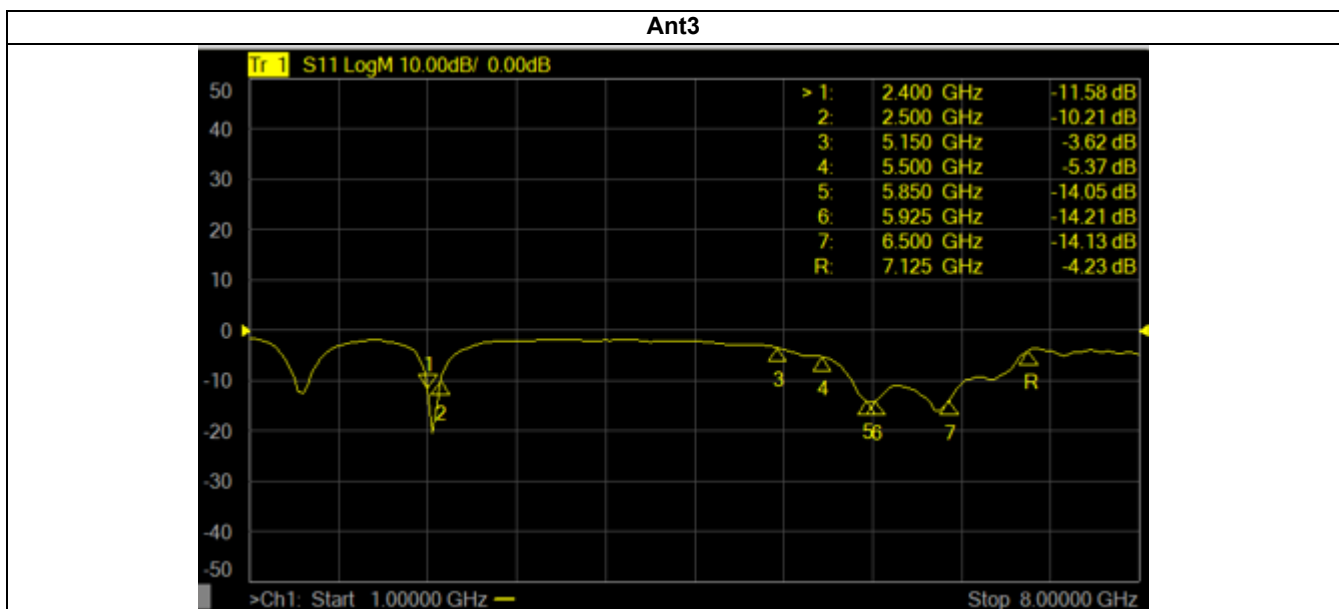
Figure 3-4

3.3 S Parameter Test Data

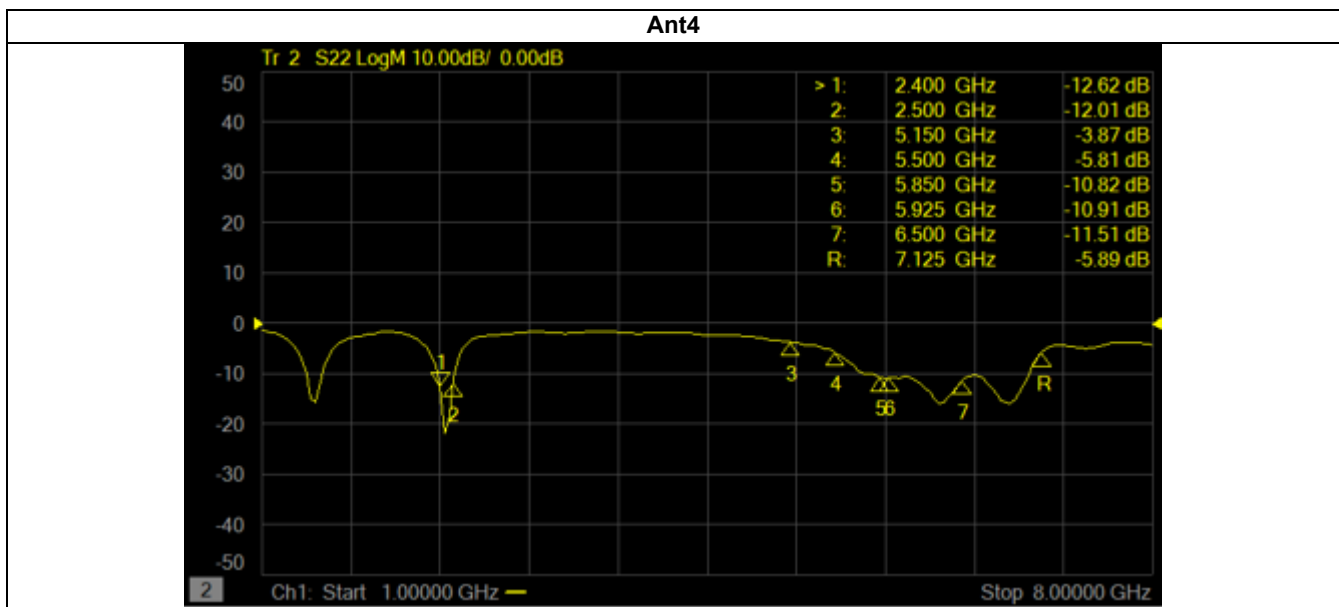


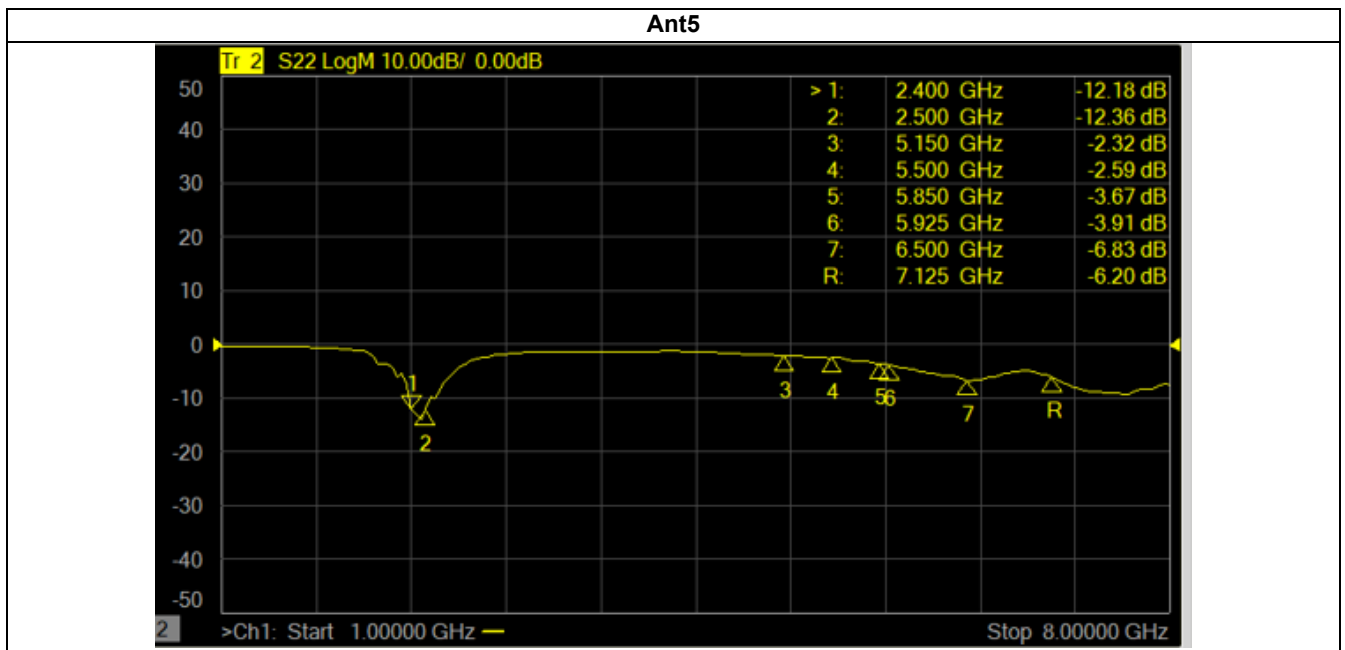


Ant3



Ant4





3.4 Antenna Gain

3.4.1 Peak Gain

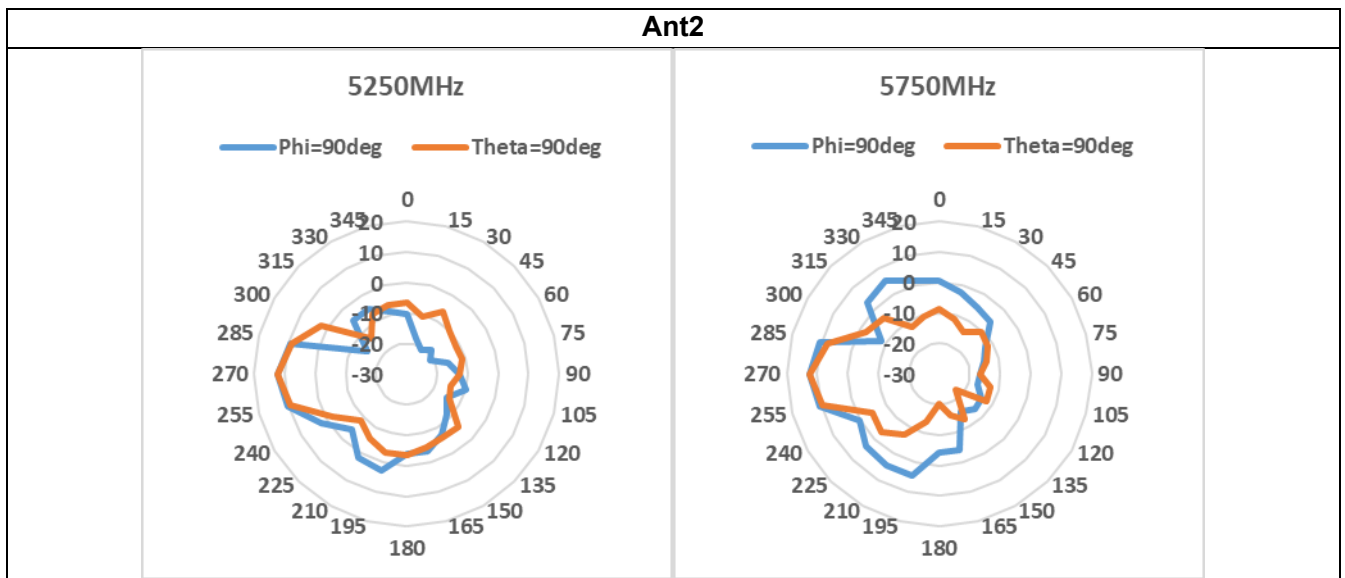
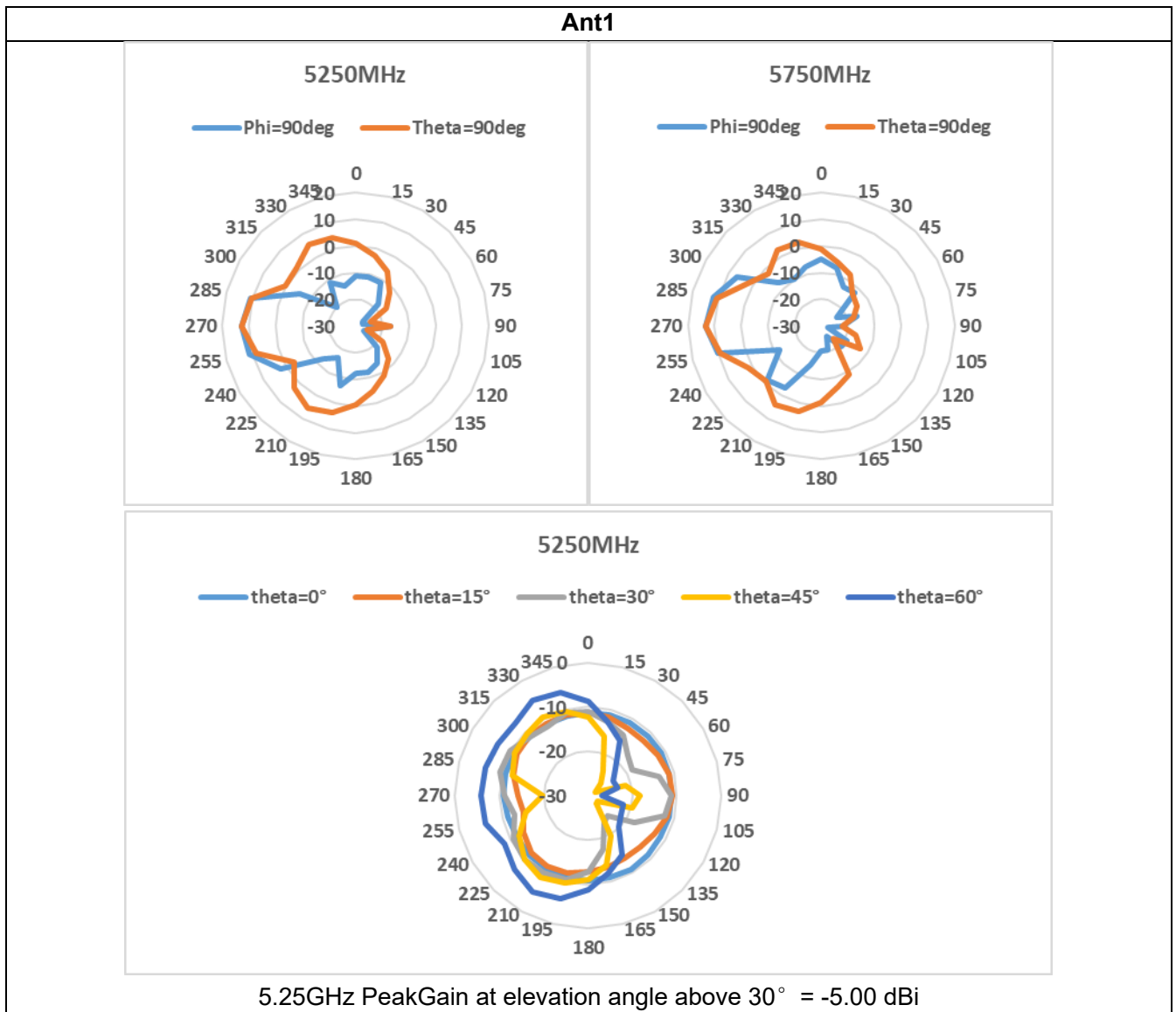
Frequency	2.45GHz 2400~2500MHz	5.2GHz 5150~5250MHz	5.3GHz 5250~5350MHz	5.6GHz 5470~5725MHz	5.8GHz 5725~5895MHz
Ant1 MaxGain(dBi)	/	12.74	12.74	13.18	13.18
Ant2 MaxGain(dBi)	/	12.35	12.35	12.67	12.67
Ant3 MaxGain(dBi)	8.24	/	/	/	/
Ant4 MaxGain(dBi)	8.33	/	/	/	/
Ant5 MaxGain(dBi)	3.61	/	/	/	/
Ant1 Polarization/ Φ (°) / θ (°)	/	Theta/270/90	Theta/270/90	Theta/270/90	Theta/270/90
Ant2 Polarization/ Φ (°) / θ (°)	/	Phi/270/90	Phi/270/90	Phi/270/90	Phi/270/90
Ant3 Polarization/ Φ (°) / θ (°)	Theta/255/90	/	/	/	/
Ant4 Polarization/ Φ (°) / θ (°)	Phi/270/90	/	/	/	/
Ant5 Polarization/ Φ (°) / θ (°)	Theta/240/105	/	/	/	/
Max Gain(dBi)	8.33	12.74	12.74	13.18	13.18

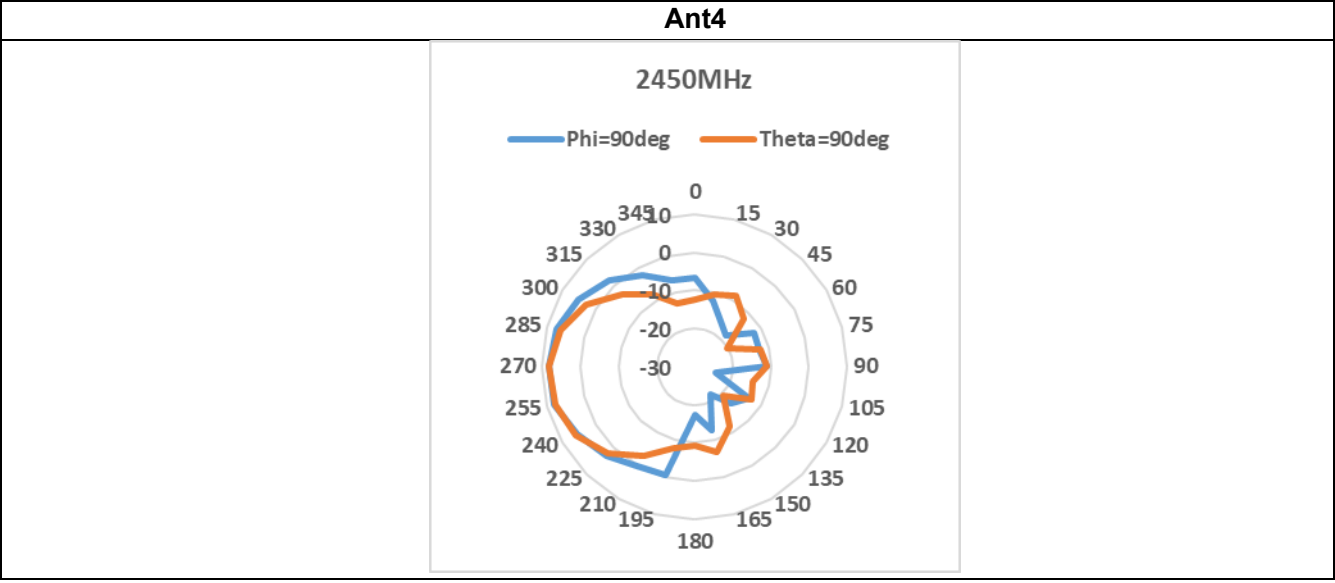
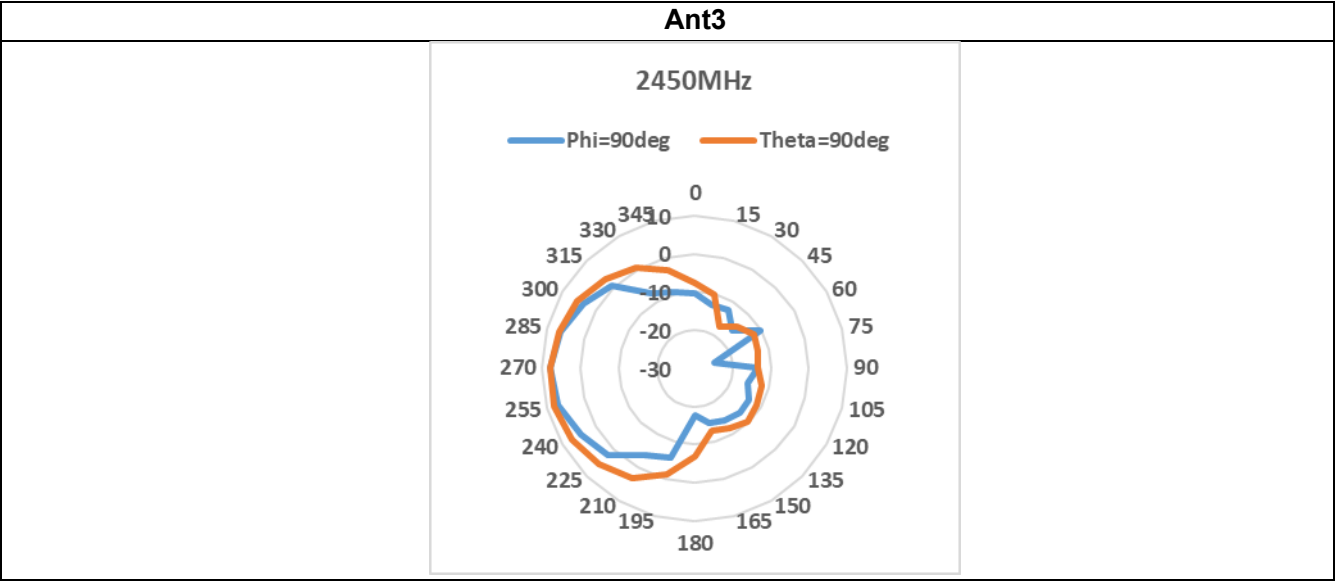
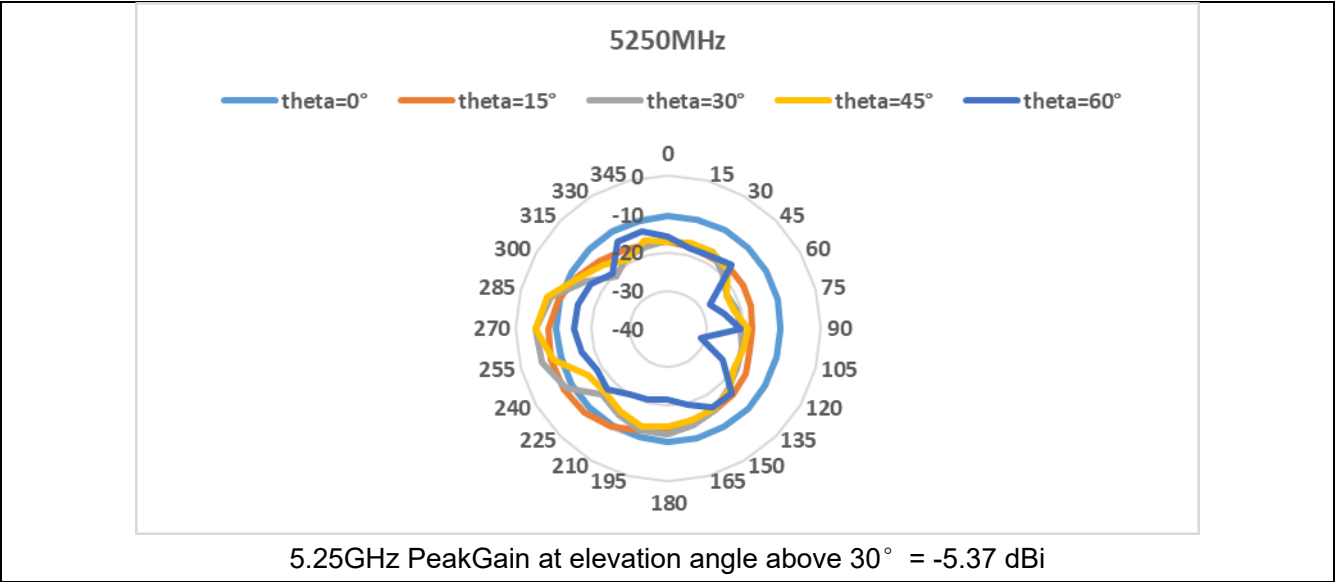
3.4.2 Horizontal plane Gain

3.4.2.1. 5150~5250MHz

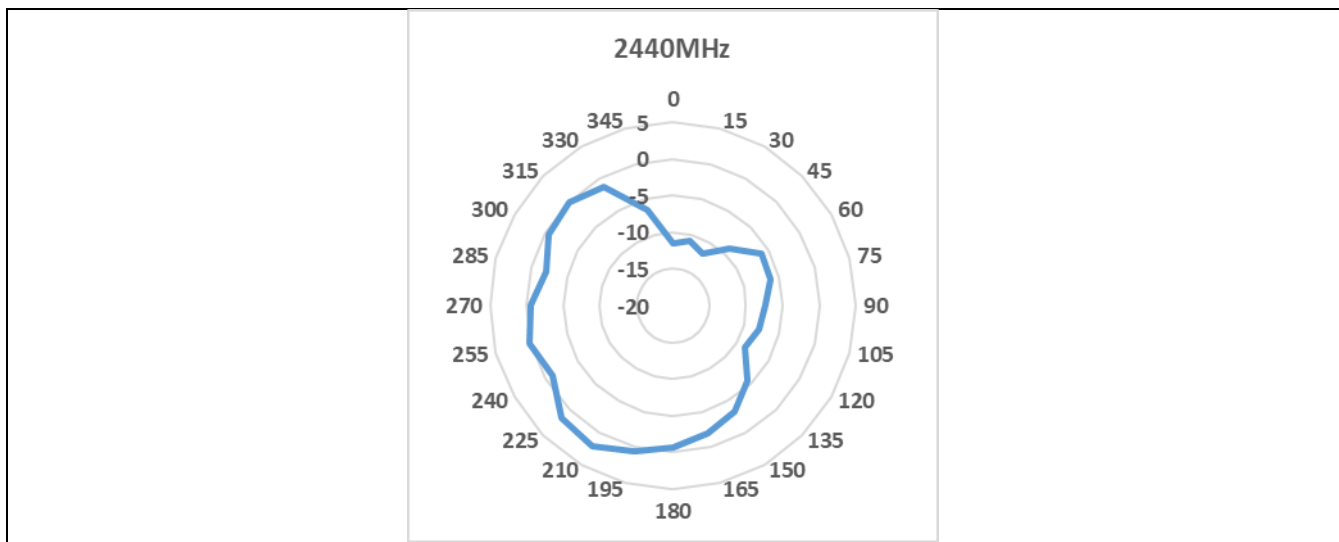
θ	>30°
Ant1 MaxGain(dBi)	-5.00
Ant2 MaxGain(dBi)	-5.37
Max Gain(dBi)	-5.00

3.5 Antenna Radiation Pattern





Ant5



4. Test Pattern

Ant1													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.38	-11.33	-11.19	-12.28	-8.89	1.41	0.86	-2.13	-7.47	-7.9	-12.02	-8.44	-8.44
15	-11.22	-11.78	-12.7	-16.12	-12.83	-3.22	-2.56	-6.51	-12.57	-14.55	-13.64	-9.96	-9.96
30	-11.08	-12.41	-14.3	-23.52	-15.77	-8.45	-6.07	-10.94	-15.31	-16.17	-13.65	-10.8	-10.8
45	-10.96	-12.56	-17.27	-26.02	-21.34	-12.16	-11.96	-13.92	-21.05	-24.57	-13.15	-10.18	-10.18
60	-10.96	-11.92	-18.48	-28.26	-23.38	-15.05	-16.69	-18.05	-22.48	-13.6	-16.33	-9.49	-9.49
75	-11.19	-11.14	-13.54	-21.19	-23.14	-16.23	-24.17	-16.75	-23.61	-18.35	-14	-10.21	-10.21
90	-11.27	-10.98	-11.29	-18.24	-26.78	-27.32	-17.05	-24.67	-26.28	-18.52	-13.93	-12.28	-12.28
105	-11.19	-11.7	-12.21	-19.64	-21.9	-17.05	-25.7	-20.73	-19.4	-18.77	-18.18	-14.28	-14.28
120	-11.14	-12.66	-17.83	-27.68	-21.59	-15.8	-18.14	-15.93	-22.05	-15.11	-21.28	-13.68	-13.68
135	-10.92	-13.62	-23.71	-27.35	-20.09	-12.1	-12.78	-17.15	-19.84	-22.01	-15.57	-11.74	-11.74
150	-10.9	-13.73	-22.91	-19.51	-14.71	-8.7	-8.44	-11.34	-18.57	-19.26	-14.77	-10.78	-10.78
165	-10.96	-13.19	-17.41	-13.88	-11.99	-6.17	-4.73	-6.68	-16.92	-14.05	-14.67	-9.66	-9.66
180	-10.87	-12.86	-12.77	-11.03	-8.91	-0.73	-0.56	-3.33	-9.99	-9.93	-13.35	-9.04	-9.04
195	-10.84	-12.08	-10.4	-9.54	-6.03	2.78	3.77	0.55	-6.66	-7.28	-12.22	-9.29	-9.29
210	-11	-11.54	-10	-8.7	-5	4.66	5.55	1.77	-3.79	-3.81	-8.47	-8.68	-8.68
225	-11.23	-11.83	-9.78	-9.83	-6.6	3.07	2.69	-1.03	-2.43	-1.95	-7.06	-6.06	-6.06
240	-11.38	-13.28	-10.48	-12.03	-8.34	0.68	-3.24	-3.12	-1.88	-4.12	-7.12	-5.69	-5.69
255	-11.32	-14.92	-12.96	-15.46	-6.1	7.22	8.51	7.54	0.95	-9.34	-9.82	-7.42	-7.42
270	-10.97	-14.23	-11.16	-19.82	-5.94	10.96	12.74	11.32	2.42	-12.95	-16.43	-6.86	-6.86
285	-10.86	-12.48	-9.43	-12.29	-5.98	9.05	10.31	9.48	1.46	-9.89	-9.78	-5.88	-5.88
300	-10.95	-11.42	-9.81	-10.79	-6.55	2.99	0.54	2.59	-1.56	-5.65	-6.96	-5.68	-5.68
315	-11.28	-11.14	-11.32	-10.34	-6.97	2.17	1.1	-2.05	-1.84	-2.97	-8.43	-5.95	-5.95
330	-11.46	-11.23	-11.91	-9.7	-5.11	5.34	5.32	1.57	-1.87	-3.05	-10.42	-6.4	-6.4
345	-11.57	-11.18	-10.71	-10.38	-6.05	4.53	4.15	1.08	-4.13	-4	-10.77	-7.11	-7.11

Ant1													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.87	-6.79	-11.45	-7.15	-5.71	-2.2	-1.25	-1.06	-7.06	-8.62	-10.2	-7.87	-7.87

15	-4.96	-6.78	-13.13	-9.42	-10.23	-5.47	-5.2	-4.07	-10.07	-8.84	-15.08	-12.94	-12.94
30	-4.89	-6.97	-11.13	-11.82	-14.93	-10.15	-7.82	-9.88	-9	-10.59	-14.44	-18.86	-18.86
45	-4.91	-7.22	-9.78	-17.59	-13.75	-15.4	-13.16	-13.28	-12.42	-17.68	-12.23	-19.84	-19.84
60	-4.9	-7.26	-11.2	-13.82	-18.8	-16.15	-14.72	-13.9	-14.57	-19.01	-14.86	-19.72	-19.72
75	-4.98	-7.05	-11.74	-13.34	-20.4	-16.37	-17.35	-18.98	-22.61	-16.48	-13.53	-22.77	-22.77
90	-4.92	-7.32	-12.97	-12.24	-23.24	-16.29	-22.02	-27.44	-18.86	-19.06	-25.46	-20.63	-20.63
105	-4.87	-7.6	-13.4	-15	-29.32	-17.52	-16.51	-20.49	-16.95	-16.39	-15.9	-18.33	-18.33
120	-4.73	-7.83	-12.26	-17.01	-15.4	-17.02	-13.11	-17.02	-19.73	-22.65	-15.99	-19.25	-19.25
135	-4.74	-7.35	-9.74	-14.47	-13.45	-14.92	-23.24	-13.8	-13.35	-18.44	-17.37	-15.32	-15.32
150	-4.8	-6.72	-9.16	-13.11	-14.03	-12.33	-8.92	-10.21	-14.4	-12.15	-15.95	-12.4	-12.4
165	-4.99	-6.21	-10.43	-10.15	-8.24	-6.62	-6.5	-6.72	-10.24	-9.47	-17.59	-11.5	-11.5
180	-4.97	-5.64	-10.15	-7.12	-4.59	-3.67	-1.19	-3.57	-6.5	-8.89	-14.49	-9.59	-9.59
195	-5.01	-5.35	-8.3	-4.72	-3.11	-1.14	3.16	-0.69	-4.94	-9.76	-11.03	-6.73	-6.73
210	-5.09	-5.02	-7.63	-4.1	-2.15	1.03	4.19	0.93	-5.47	-10.56	-8.31	-5.35	-5.35
225	-5.01	-5.2	-7.99	-2.6	-2.08	-2.35	-0.75	0.01	-5.19	-7.45	-5.35	-5.47	-5.47
240	-5.01	-5.83	-9.18	-3.31	0.4	-0.53	1.51	-2.85	-3.13	-5.24	-2.43	-5.08	-5.08
255	-4.97	-6.54	-10.47	-6.52	4.63	8.17	9.08	5.54	-4.84	-1.52	-3.24	-8.24	-8.24
270	-4.92	-7.14	-9.57	-7.14	6.38	12.01	13.18	10.11	-11.86	-1.54	-3.15	-15	-15
285	-5.1	-7.41	-8.51	-4.53	5.1	10.22	10.51	7.59	-7.31	-2.58	-7.53	-10.85	-10.85
300	-5.27	-7.77	-8.99	-4.1	1.75	3.74	1.98	-0.7	-3.07	-1.81	-3.72	-6.98	-6.98
315	-5.2	-7.74	-10.55	-4.24	-3.24	-2.25	-2.18	-3.52	-2.52	-5.76	-4.69	-6.24	-6.24
330	-5.12	-7.44	-10.56	-4.43	-3.99	-0.12	3.01	0.92	-4.8	-6.26	-6.45	-6.01	-6.01
345	-4.95	-7.13	-10.84	-5.19	-4.21	0.36	2.69	1.46	-5.63	-7.51	-12.68	-5.98	-5.98

ANT2													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-10.58	-17.29	-16.81	-17.35	-16	-3.05	-6.68	-8.09	-6.68	-13.39	-0.18	0.72	0.72
15	-10.39	-17.64	-17.44	-16.66	-18.14	-6.68	-10.58	-7.84	-10.71	-14.66	-3.27	0.25	0.25
30	-10.22	-18.15	-16.89	-16.67	-17.94	-5.91	-6.12	-9.15	-10.27	-17.74	-6.83	-0.27	-0.27
45	-9.98	-17.21	-19.47	-18.01	-16.48	-6.91	-10.03	-6.17	-15.74	-19.45	-9.77	-1.53	-1.53
60	-10.11	-17.09	-22.2	-22.34	-27.33	-13.5	-11.47	-13.7	-16.84	-13.85	-7.58	-2.86	-2.86
75	-10.19	-17.44	-21.26	-22.03	-24.84	-16.45	-11.35	-8.46	-12.48	-9.61	-5.76	-3.48	-3.48
90	-10.42	-18.07	-20.78	-18.82	-21.09	-15.85	-12.72	-9.81	-14.94	-11.22	-7.25	-3.88	-3.88
105	-10.56	-17.79	-19.96	-19.53	-30.97	-11.28	-15.16	-10.55	-12.83	-17.69	-7.53	-6.18	-6.18
120	-10.53	-16.61	-19.13	-19.98	-23.57	-8.89	-13.64	-10.27	-11.77	-12.07	-7.49	-8.03	-8.03
135	-10.23	-15.89	-17.61	-17.23	-16.25	-8.99	-5.85	-6.41	-11.21	-15.7	-8.81	-5.09	-5.09
150	-10.31	-15.53	-15.43	-15.79	-16.34	-8.26	-6.04	-7.76	-13.79	-9.64	-11.85	-2.76	-2.76
165	-10.25	-15.09	-13.78	-15.06	-19.32	-9.23	-5.09	-4.79	-9.95	-12.01	-5.94	-3.01	-3.01
180	-10.42	-14.02	-12.26	-14.25	-21.59	-9.25	-3.28	-4	-5.59	-7.26	-5.59	-2.53	-2.53
195	-10.68	-12.31	-12.29	-13.53	-20.68	-5.59	-3.21	-3.02	-1.66	-3.45	-1.94	-0.26	-0.26
210	-10.91	-10.49	-14.05	-15.02	-20.25	-1.58	-5.52	-1.38	0.67	-1.15	-0.16	2.36	2.36
225	-10.96	-9.12	-15.67	-16.46	-17.52	-0.47	-8.57	-2.25	-0.7	-0.98	0.69	3.36	3.36
240	-10.88	-8.28	-9.11	-15.62	-18.45	-2.55	-1.89	3.71	0.5	-0.11	1.16	3.13	3.13
255	-10.84	-8.13	-5.67	-8.91	-16.68	6.43	9.54	9.52	2	-1.18	2.48	3.51	3.51
270	-10.58	-8.68	-5.37	-5.39	-15.19	9.36	12.35	10.37	2.27	-4.61	1.59	2.81	2.81
285	-10.5	-10.18	-8.26	-7.1	-15.6	6.87	9.25	8.93	3.35	-1.56	1.47	1.52	1.52

300	-10.57	-12.53	-15.19	-13.27	-16.55	-2.32	2.17	5.37	2.04	3.25	0.07	1.62	1.62
315	-10.67	-14.86	-20.66	-16.23	-19.41	-7.1	-13.26	-5.63	-1.08	-0.9	0.19	1.28	1.28
330	-10.65	-16.37	-18.51	-19.05	-13.49	-1.46	-7.3	-4.1	-9	-0.63	0.14	0.7	0.7
345	-10.77	-17.04	-17.68	-16.11	-13.76	-2.64	-6.76	-6.37	-5.31	-7.29	0.03	1.35	1.35

Ant2													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.25	-3.52	-3.58	-4.57	-4.86	-5.65	-8.65	-6.38	-6.96	-6.01	-9.28	-3.07	-3.07
15	0.44	-4.58	-3.56	-6.39	-7.64	-8.92	-11.42	-5.09	-15.4	-5.79	-8.33	-4.36	-4.36
30	0.53	-5.38	-5.83	-6.34	-7.15	-9.94	-14.22	-10.71	-10.95	-8.09	-9.91	-4.09	-4.09
45	0.63	-5.68	-9.86	-5.96	-8.13	-5.96	-10.37	-11.81	-12.53	-8.16	-9.45	-5.38	-5.38
60	0.52	-4.97	-9.48	-15.64	-14.11	-7.33	-11.45	-24.88	-20.82	-18.3	-8.42	-5.93	-5.93
75	0.32	-3.46	-5.77	-14.05	-18.28	-10.66	-13.92	-14.66	-14.05	-10.99	-12.45	-5.86	-5.86
90	0.4	-2.26	-5.12	-5.98	-12.71	-14.58	-16.67	-16.79	-14.03	-13.52	-15.9	-4.22	-4.22
105	0.48	-2.01	-8.74	-7.64	-14.29	-16.11	-12.73	-17.07	-14.23	-13	-10.63	-5.91	-5.91
120	0.53	-2.43	-10.96	-13.4	-14.69	-11.25	-12.06	-17.73	-11.22	-16.28	-9.06	-8.95	-8.95
135	0.72	-2.94	-10.96	-9.99	-7.93	-7.33	-22.57	-13.07	-13.4	-13.63	-12.18	-7.13	-7.13
150	0.61	-3.31	-9.15	-8.7	-10.3	-8.82	-12.83	-13.48	-15.62	-9.5	-8.84	-4.4	-4.4
165	0.37	-2.99	-6.77	-6.25	-13.55	-4	-16.03	-8.28	-9.89	-6.77	-8.35	-3.81	-3.81
180	0.32	-2.17	-5.78	-3.84	-6.5	-2.69	-20.27	-8.01	-4.78	-3.54	-7.76	-3.47	-3.47
195	0.17	-1.89	-4.96	-2.12	-3.55	-1.88	-13.73	-5.09	0.54	-1.3	-4.48	-1.42	-1.42
210	0.04	-1.67	-5.83	-0.37	-3.74	-3.74	-6.95	-2.54	2.94	-2.59	-1.22	2.02	2.02
225	0.04	-1.39	-3.88	-0.6	-7.37	-8.51	-3.1	0.03	2.7	-0.02	1.26	3.6	3.6
240	0.05	-0.55	-0.64	-0.8	-2.27	-1.16	-4.69	-6.1	-3.02	-1.26	2.66	4.06	4.06
255	0.1	0.75	3.18	1.69	-6.23	4.35	9.44	5.81	-1.91	-0.09	3.07	4.7	4.7
270	0.16	1.7	5.09	3.1	-8.19	10.36	12.67	10.63	0.32	3.66	4.55	4.68	4.68
285	0.13	1.89	4.75	1.07	-0.64	7.76	7.91	6.67	2.46	3.26	3.76	3.87	3.87
300	0.03	1.2	2.89	-1.69	-1.75	-3.1	-2.54	-7.53	-3.12	4.25	1.55	3.56	3.56
315	-0.06	-0.04	-0.07	-1.49	-4.35	-3.02	-4.31	-5.74	-4.59	-0.8	-4.52	3.17	3.17
330	-0.06	-1.14	-1.24	-2.25	-3.78	-2.92	-12.01	-5.46	0.36	-3.39	-8.29	2.36	2.36
345	0.05	-2.24	-1.63	-2.36	-3.1	-7.17	-10.6	-5.77	-1.79	-2.02	-8.32	0.03	0.03

ANT3													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-10.49	-12.97	-19.94	-9.83	-12.4	-7.55	-7.69	-9.01	-7.01	-7.82	-9.85	-8.36	-17.57
15	-9.98	-14.09	-17.65	-11.89	-13.94	-12.35	-9.99	-11.9	-9.52	-6.4	-11.2	-8.28	-17.57
30	-10.05	-15.01	-18.42	-18.14	-16	-13.9	-17.28	-11.15	-10.63	-7.27	-11.69	-9.63	-17.57
45	-10.29	-14.83	-19.33	-22.16	-18.5	-16.5	-14.35	-10.61	-11.22	-11.81	-12.41	-12.75	-17.57
60	-10.65	-13.91	-14.42	-16.72	-15.6	-12.25	-12.1	-15.76	-10.89	-12.35	-12.99	-17.57	-17.57
75	-10.54	-12.92	-12.91	-15.24	-11.35	-13.74	-12.81	-22.35	-15.01	-15.95	-13.41	-16.18	-17.57
90	-10.34	-12.66	-12.26	-16.03	-9.98	-24.59	-13.42	-15.47	-13.64	-13.46	-14.13	-15.04	-17.57
105	-10.15	-12.93	-12.62	-16.62	-11.16	-14.63	-11.81	-12.86	-13.93	-10.72	-15.78	-15.65	-17.57

120	-10.0 6	-13.61	-13.56	-14.11	-12.97	-15.39	-11.08	-11.07	-12.17	-8.43	-14.39	-14.62	-17.57
135	-10.3 8	-14	-15.1	-9.91	-13.8	-18.87	-10.4	-9.91	-10.28	-8.11	-11	-12.15	-17.57
150	-10.6 8	-14.38	-15.58	-7.69	-10.87	-12.35	-11.88	-8.75	-7.31	-7.75	-9.45	-10.97	-17.57
165	-10.5 7	-13.86	-14.95	-7.51	-8.11	-10.91	-13.17	-7.48	-6.46	-7.04	-9.4	-10.73	-17.57
180	-10.4 9	-13.03	-11.12	-5.78	-4.78	-6.97	-6.78	-5.61	-5.28	-7.49	-7.15	-12.32	-17.57
195	-10.4	-12.01	-8.85	-3.46	-3.06	-2.33	-1.28	-2.03	-3.43	-3.87	-4.93	-15.55	-17.57
210	-10.5 4	-11.25	-8.46	-2.73	-0.7	1.07	3.1	2.05	-0.92	-1.57	-6.19	-16.04	-17.57
225	-10.3	-10.43	-7.85	-1.81	1.53	4.37	5.56	4.89	2.31	0.62	-5.25	-11.65	-17.57
240	-10.6 7	-9.88	-6.85	-0.99	3.23	6.06	7.21	7.19	4.01	0.98	-3.87	-7.99	-17.57
255	-10.3 7	-9.47	-6.33	-0.59	4.08	6.48	8.24	7.58	4.39	1.4	-4.11	-6.27	-17.57
270	-10.6 5	-9.23	-7.25	0.57	3.85	6.34	8.01	7.21	4.36	2.16	-3.88	-5.84	-17.57
285	-10.2 1	-9.31	-7.71	0.61	2.7	5.8	6.88	6.5	3.49	2.25	-2.78	-6.65	-17.57
300	-10.5 3	-9.6	-8.06	-0.81	0.95	4.18	5.47	4.93	1.63	1	-2.97	-8.38	-17.57
315	-10.2 2	-10.26	-10.66	-2.73	-2.36	2.17	3.23	2.18	-0.24	-1.58	-5.8	-10.96	-17.57
330	-10.6 4	-11	-13.83	-5.45	-6.34	-1.01	0.59	-0.78	-3.82	-3.97	-9.22	-11.43	-17.57
345	-10.3 4	-11.82	-19.03	-8.12	-9.01	-4.21	-3.52	-3.96	-5.88	-6.93	-9.61	-9.78	-17.57

ANT4													
Freq	24 50												
Phi\T heta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6. 92	-8.12	-8.48	-7.86	-12.28	-10.06	-12.38	-11.01	-7.43	-4.89	-4.46	-3.3	-17.38
15	-6. 69	-8.51	-10.4	-8.41	-16.31	-9.55	-10.34	-16.19	-10.83	-3.72	-6.04	-3.87	-17.38
30	-6. 63	-8.69	-13.44	-10.92	-15.21	-13.32	-8.34	-9.1	-15.26	-7.62	-8.09	-6.67	-17.38
45	-6. 61	-9.41	-13.18	-14.39	-13.59	-16.07	-12.04	-9.96	-8.87	-15.62	-14.37	-11.5	-17.38
60	-6. 71	-10.49	-12.75	-15.51	-16.94	-12.02	-20.17	-13.23	-13.14	-14.89	-19.59	-16.21	-17.38
75	-6. 75	-11.53	-14.13	-16.53	-14.76	-10.92	-12.1	-12.33	-12.86	-14.91	-23.55	-13.97	-17.38
90	-6. 65	-12.14	-16.06	-18.58	-11.99	-12.5	-10.95	-24.44	-13.74	-16.38	-21.46	-12.86	-17.38
105	-6. 63	-11.85	-16.16	-18.39	-13.01	-14.67	-14.41	-12.23	-18.14	-23.22	-14.02	-14.07	-17.38
120	-6. 61	-11.01	-14.16	-19.69	-17.25	-17.28	-12.94	-12	-10.33	-25.63	-10.88	-17.38	-17.38
135	-6. 66	-9.74	-11.31	-18.97	-29.21	-17.36	-19.41	-11.5	-9.63	-15.07	-9.76	-12.28	-17.38
150	-6. 71	-8.36	-9.51	-12.93	-16.29	-14.57	-11.75	-13.34	-11.22	-6.97	-10.28	-7.2	-17.38
165	-6. 63	-7.16	-8.02	-9.15	-16.51	-9.56	-6.98	-10.63	-7.53	-6.48	-6.71	-5.88	-17.38
180	-6. 51	-6.28	-7.09	-8.36	-11.38	-6.88	-9.22	-6.33	-5.32	-5.22	-4.65	-7.19	-17.38
195	-6. 64	-5.56	-6.05	-4.33	-5.19	-7.45	-7.71	-4.25	-4.08	-1.99	-5.44	-8.53	-17.38
210	-6.	-5.31	-4.27	0	-1.24	-1.96	-3.02	-2.18	-0.26	-1.66	-5.14	-6.67	-17.38

	71												
225	-6.88	-5.27	-2.36	2.23	3.05	1.77	2.21	3.7	1.43	0.18	-1.35	-3.67	-17.38
240	-7.06	-5.54	-1.22	3.51	4.69	5.61	6.17	6.61	3.25	2.12	0.27	-1.63	-17.38
255	-6.98	-6.12	-1.14	3.46	5.47	7.78	7.81	8.22	5.31	2.78	0.31	-0.69	-17.38
270	-6.78	-6.69	-2.28	1.96	5.37	7.62	8.22	8.13	5.56	2.92	0.18	-0.6	-17.38
285	-6.69	-7.46	-4.51	-0.7	3.99	5.91	6.59	6.3	4.33	3.28	0.59	-1.38	-17.38
300	-6.74	-8.14	-7.29	-3.58	1.19	2.59	2.78	2.75	2.88	3.33	0.71	-3.29	-17.38
315	-6.82	-8.35	-9.33	-5.78	-2.6	-2.39	-3.12	-1.92	-0.94	1.15	-1.24	-5.76	-17.38
330	-7.06	-8.23	-8.87	-8.26	-5.09	-10.2	-8.04	-7.6	-5.86	-2.95	-4.48	-6.03	-17.38
345	-7.11	-8.22	-8.18	-8.55	-8.15	-12.3	-12.63	-8.23	-9.06	-5.61	-4.02	-4.2	-17.38

ANT5													
Freq	2440												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	1.03	1.26	1.2	0.46	-4.78	-12.76	-11.57	-3.6	-5.38	-12.11	-4.36	-0.34	-4.93
15	0.95	0.72	0.08	-0.25	-5.83	-10.64	-10.79	-7.3	-6.15	-10.52	-3.83	-0.27	-4.93
30	0.89	0.05	-1.95	-2.61	-8.52	-12.66	-11.81	-7.82	-6.69	-10.03	-2.85	-0.33	-4.93
45	0.86	-0.7	-4.53	-7.51	-9.42	-15.12	-9.07	-8.82	-5.6	-9.2	-1.43	-0.29	-4.93
60	0.89	-1.33	-5.45	-5.31	-5.17	-6.58	-5.94	-12.55	-5.25	-9.33	-0.97	-0.59	-4.93
75	0.96	-1.82	-4.74	-2.39	-4.29	-6.81	-6.13	-10.87	-5.48	-10.99	-2.05	-1.48	-4.93
90	1.01	-2.22	-4.76	-3.14	-6.34	-11.26	-7.3	-14.33	-9.16	-11.11	-4.22	-2.53	-4.93
105	0.98	-2.36	-5.14	-4.36	-5.83	-10.59	-7.75	-15	-13.21	-10.23	-6.39	-3.41	-4.93
120	0.95	-2.26	-3.86	-2.78	-5.23	-11.66	-8.61	-9.31	-13.26	-11.6	-8.28	-4.39	-4.93
135	0.92	-1.87	-2	-1.67	-5.85	-7.05	-5.58	-11.27	-11.36	-11.25	-8.85	-4.93	-4.93
150	0.91	-1.46	-0.68	-1.57	-4.56	-2.54	-3.24	-12	-7.5	-6.19	-8.41	-4.44	-4.93
165	0.89	-1.13	0.18	-1.37	-2.17	-0.56	-1.98	-6.39	-4.84	-2.67	-7.34	-3.54	-4.93
180	0.94	-0.8	0.98	-0.48	-1.11	1.27	-0.65	-3.24	-2.55	-0.98	-4.73	-2.88	-4.93
195	1.06	-0.4	1.64	0.46	0.14	3.02	0.52	-0.76	-0.15	-0.13	-2.88	-2.43	-4.93
210	1.16	-0.02	2.03	1.34	1.27	3.26	2.07	1.38	0.88	0.69	-2.64	-2.25	-4.93
225	1.21	0.42	2.14	1.95	1.54	3.2	1.61	1.42	2.03	0.62	-2.5	-2.17	-4.93
240	1.19	0.8	1.92	1.75	1.78	1.14	-0.97	2.57	1.49	-0.26	-2.11	-1.94	-4.93
255	1.03	1.12	1.66	1.04	0.96	-1.11	0.25	2.27	-0.08	-1.18	-2.02	-1.93	-4.93
270	0.96	1.42	1.91	0.37	-0.27	0.65	-0.67	1.42	0.48	-1.43	-2.04	-2.1	-4.93
285	1.03	1.72	2.53	1.17	-0.57	1.12	-2.13	2.17	1.54	-1.08	-1.72	-2.15	-4.93
300	1.1	1.93	2.82	2.59	-0.99	-1.04	-0.42	2.4	0.72	-1.66	-1.9	-2	-4.93
315	1.16	2.01	2.66	2.87	-1.55	-4.79	-0.05	2.12	-1.55	-5.09	-3.33	-1.64	-4.93
330	1.18	1.96	2.28	2.01	-2.27	-8.61	-1.22	-0.05	-1.78	-10	-5.39	-1.12	-4.93
345	1.09	1.73	1.87	1.01	-3.77	-10.84	-6.5	-1.08	-3.48	-11.77	-5.22	-0.68	-4.93
360	1.03	1.26	1.2	0.46	-4.78	-12.76	-11.57	-3.6	-5.38	-12.11	-4.36	-0.34	-4.93