

AUT Report

Product Model: Tapo D260 Pro 1.0

Manufacturer: TP-Link Systems Inc.

Test Date: 2025.11.24

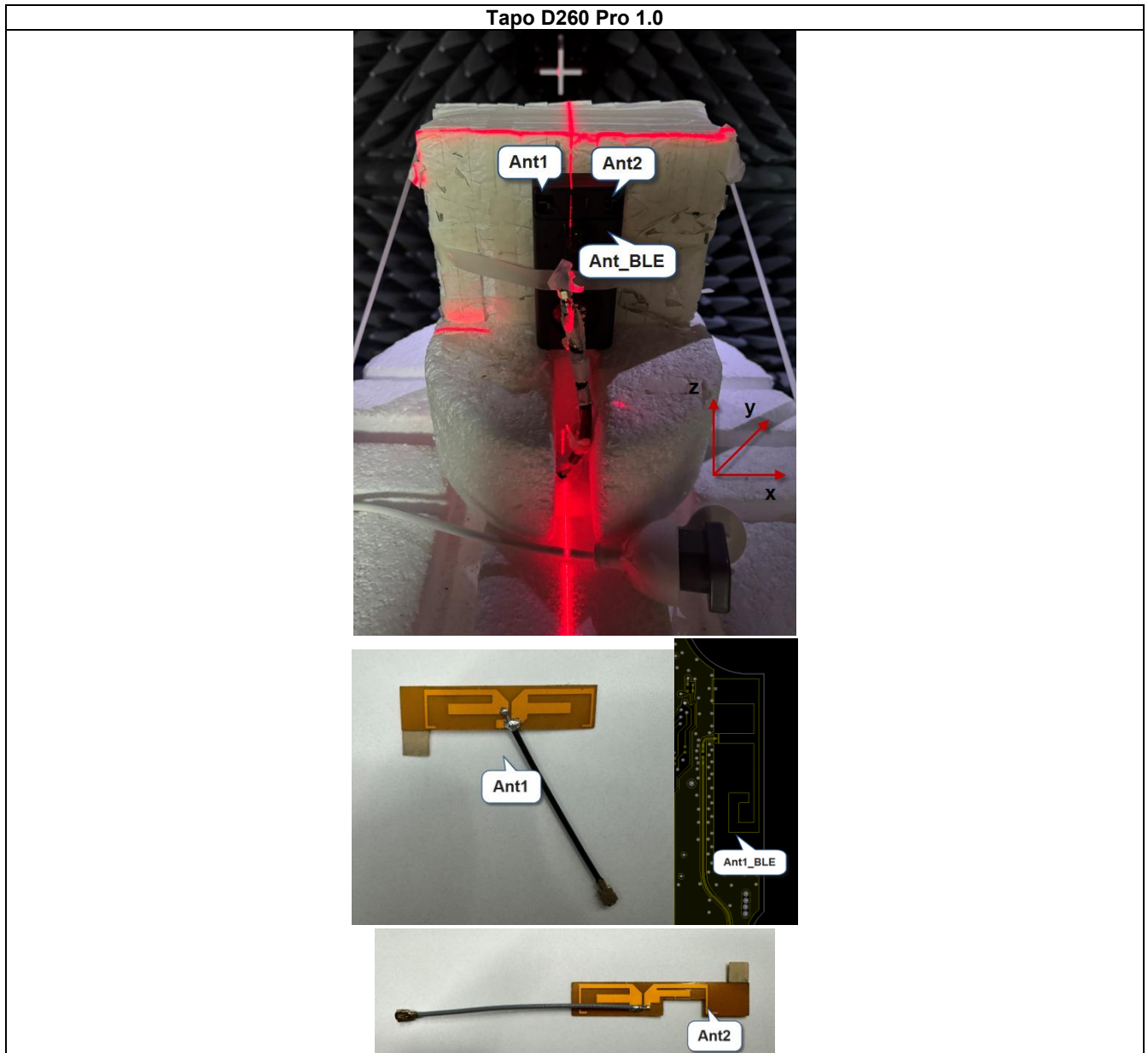
Tested By: Feng Ziqi *Feng ziqi*

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

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1. Antenna Distribution



2. Electrical Characteristics

Ant1	
Frequency	2400~2500MHz&5150~5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2.08dBi@2400~2500MHz 3.65dBi@5150~5250MHz 3.65dBi@5250~5350MHz 4.39dBi@5470~5725MHz 4.10dBi@5725~5895MHz
Radiation pattern	Omni-Directional
P/N	Tapo D260 Pro

Ant2	
Frequency	2400~2500MHz&5150~5850MHz
Impedance	50Ohm

Antenna Type	Dipole
Antenna Gain	0.30dBi@2400~2500MHz 2.78dBi@5150~5250MHz 2.63dBi@5250~5350MHz 2.93dBi@5470~5725MHz 3.01dBi@5725~5895MHz
Radiation pattern	Omni-Directional
P/N	Tapo D260 Pro

Ant_BLE	
Frequency	2400~2500MHz
Impedance	50Ohm
Antenna Type	IFA
Antenna Gain	0.98dBi@2400~2500MHz
Radiation pattern	Omni-Directional
P/N	Tapo D260 Pro

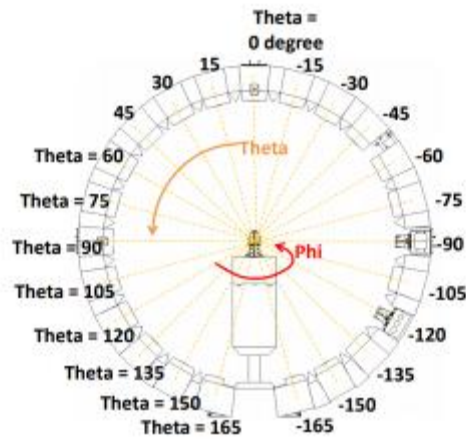


Figure 3-2

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:

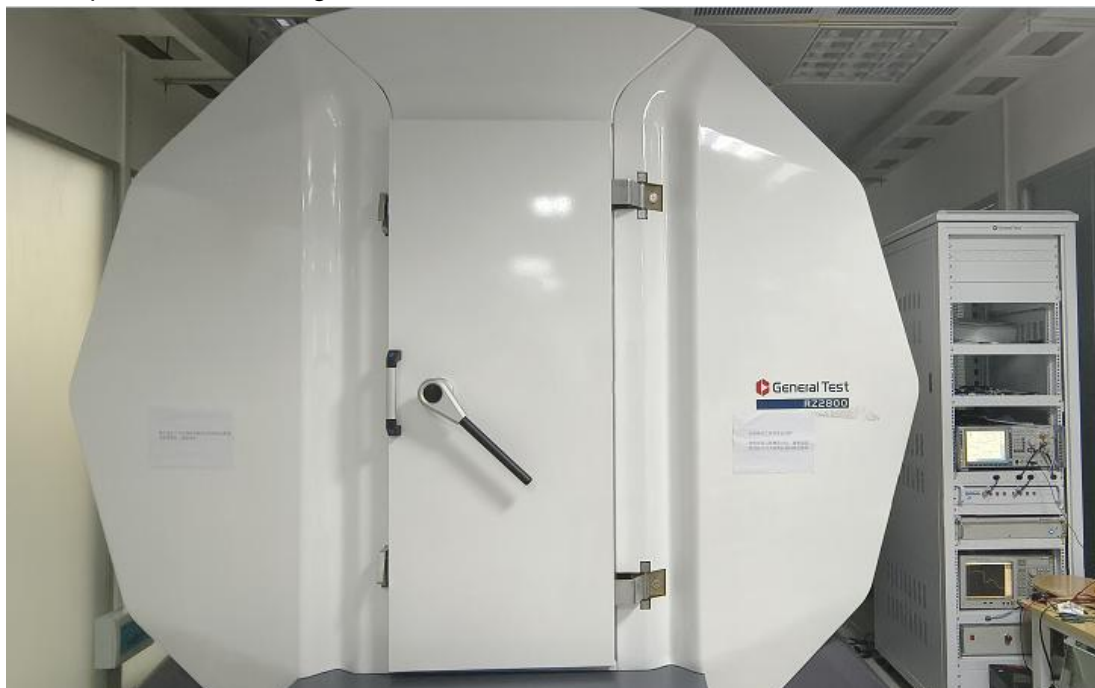


Figure 3-3

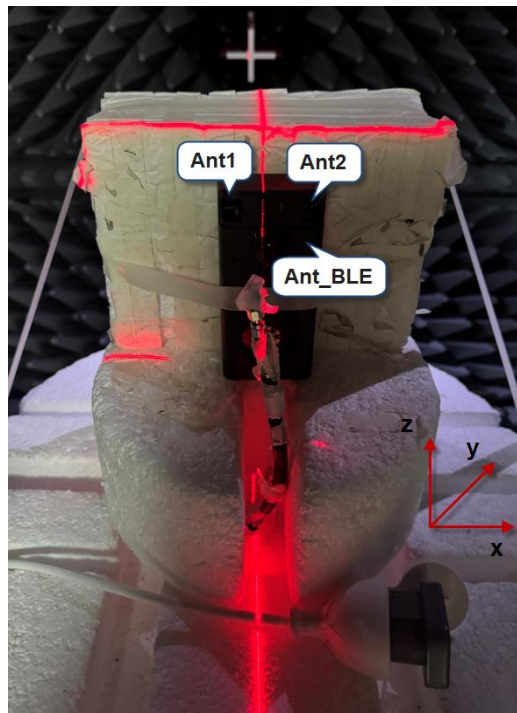
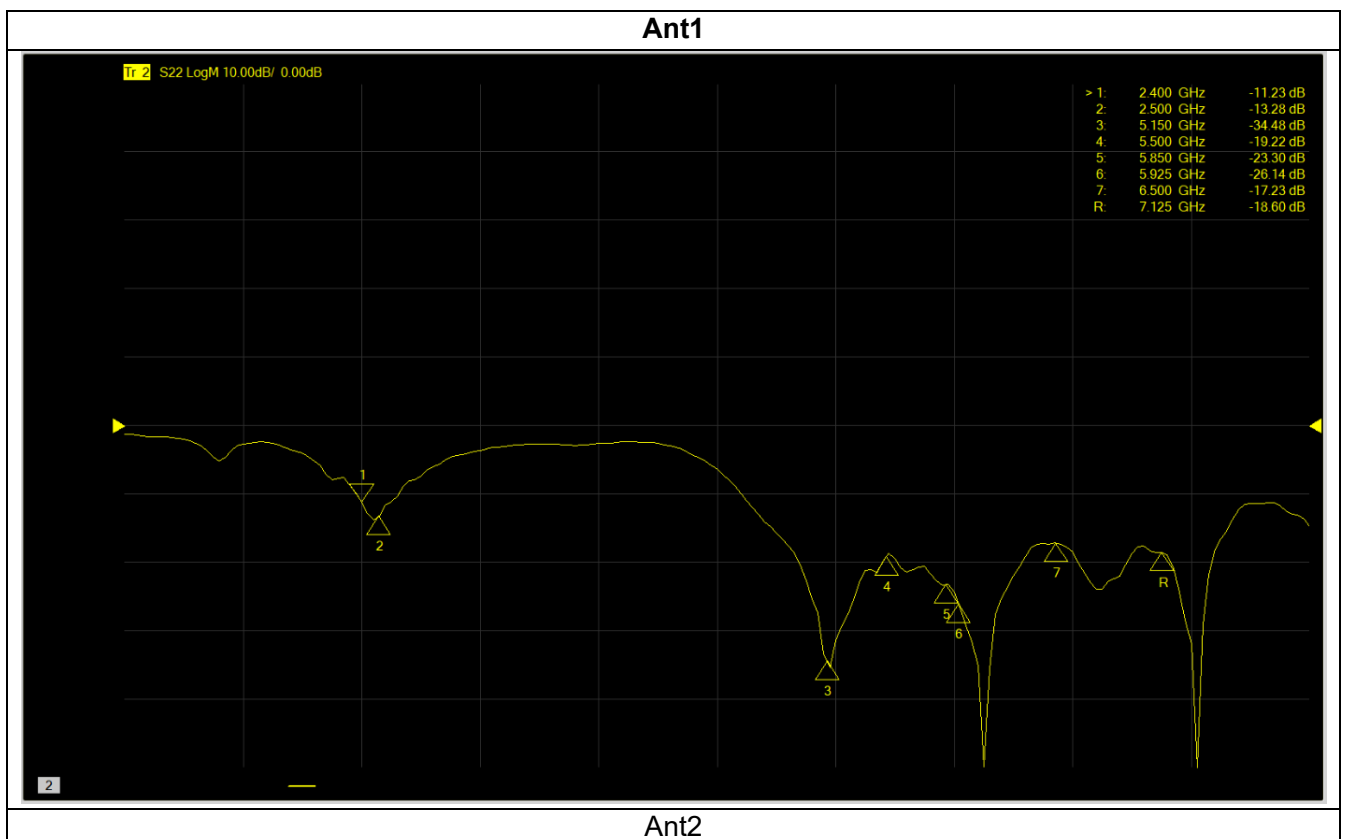
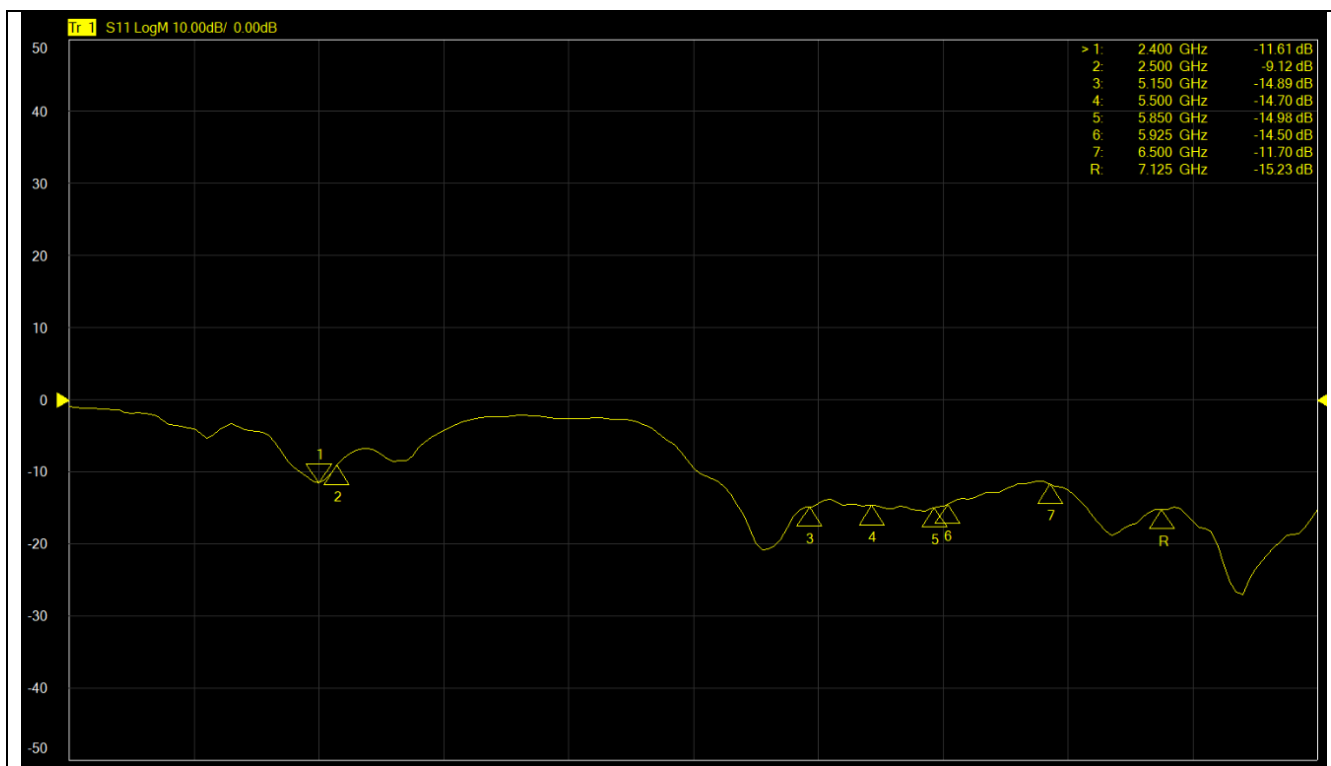


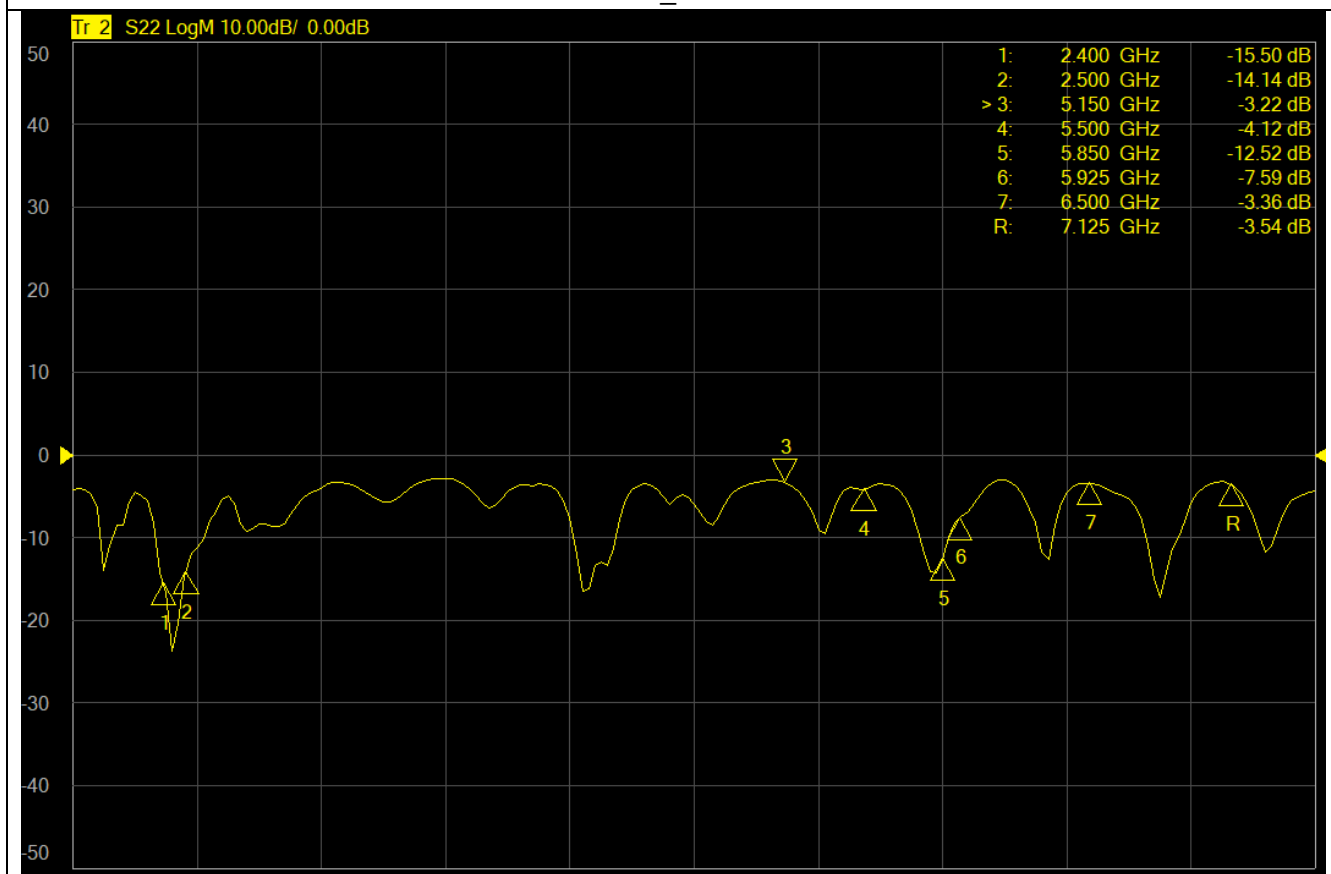
Figure 3-4

3.3 S Parameter Test Data





Ant_BLE



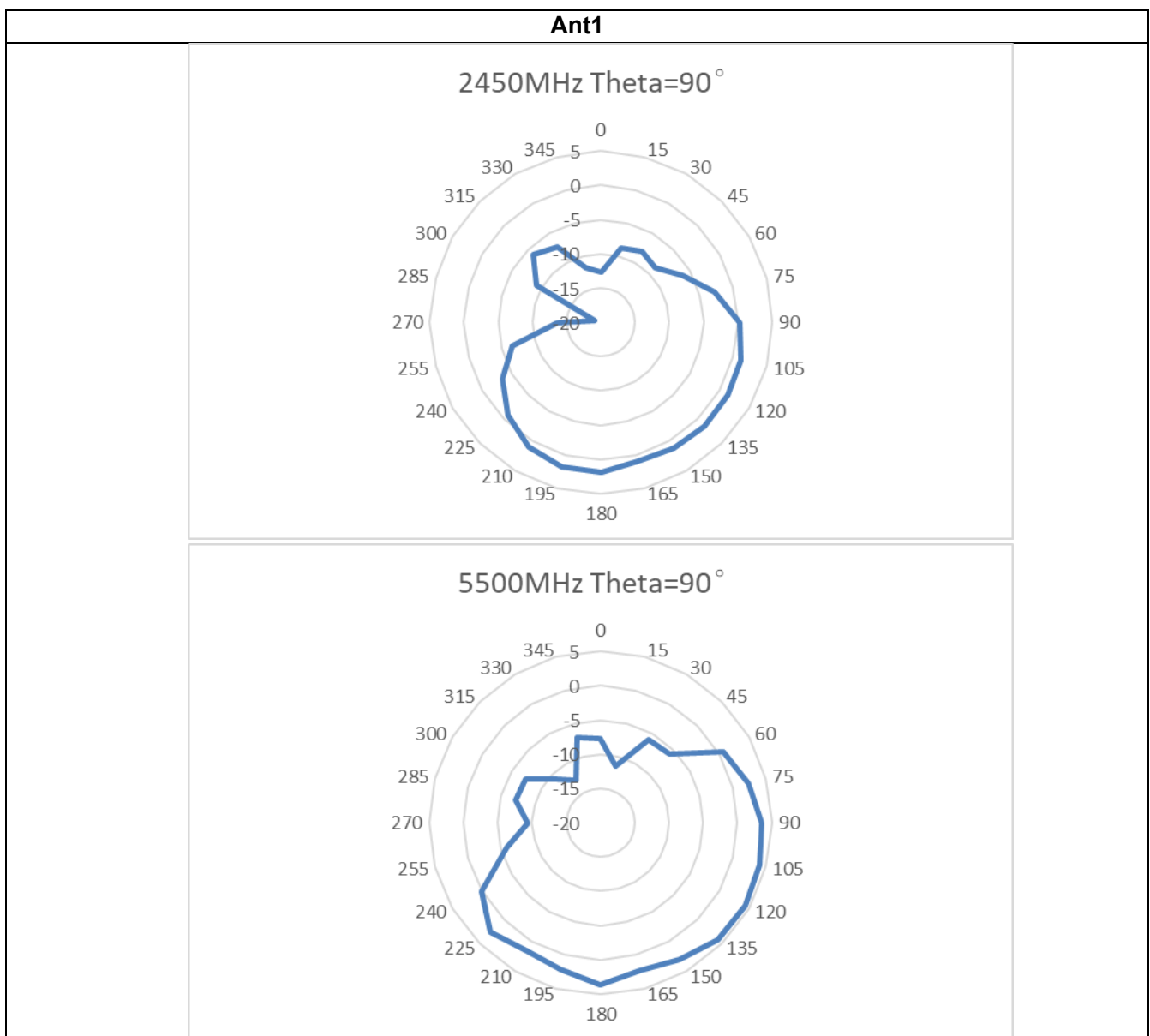
3.4 Antenna Peak Gain

Frequency	2.45GHz 2400~2500MHz	5.2GHz 5150~5250MHz	5.3GHz 5250~5350MHz	5.6GHz 5470~5725MHz	5.8GHz 5725~5895MHz
Ant1 MaxGain(dBi)	2.08	3.65	3.65	4.39	4.10

Ant2 MaxGain(dBi)	0.30	2.78	2.63	2.93	3.01
Ant1 Polarization/ Φ (°) / θ (°)	Theta/150/135	Theta/180/75	Theta/180/75	Theta/135/90	Theta/135/90
Ant2 Polarization/ Φ (°) / θ (°)	Theta/75/60	Theta/45/15	Theta/45/30	Theta/75/345	Theta/75/345
Max Gain(dBi)	2.08	3.65	3.65	4.39	4.10

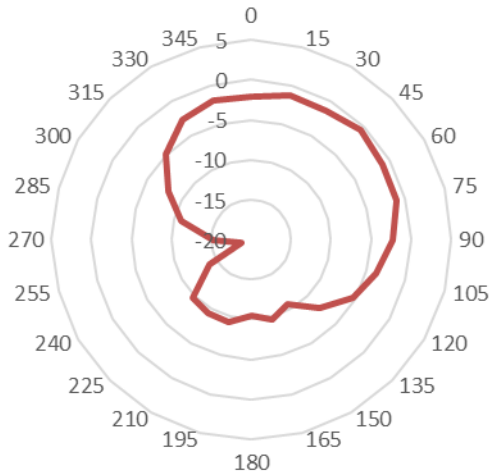
Frequency	2.45GHz 2400~2500MHz
Ant_BLE MaxGain(dBi)	0.98
Ant_BLE Polarization/Φ (°) / θ (°)	Theta/165/300
Max Gain(dBi)	0.98

3.5 Antenna Radiation Pattern

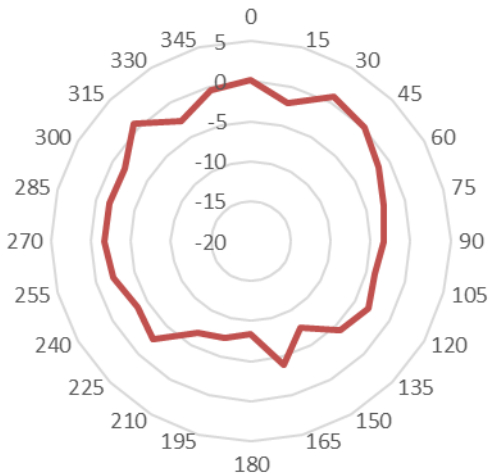


Ant2

2450MHz Theta=90°

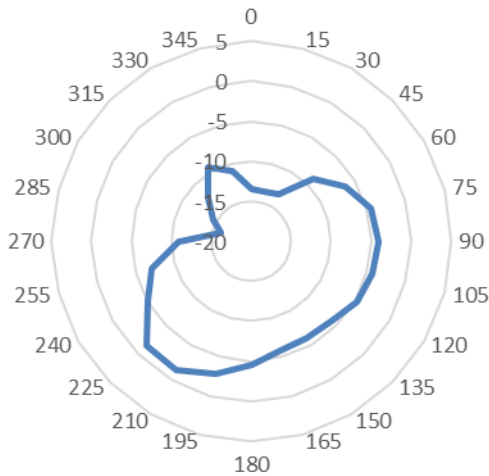


5500MHz Theta=90°



Ant_BLE

2450MHz Theta=90°



4. Test Pattern

ANT1													
Freq	2490												
Phi\Thet a	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.50	-16.52	-11.94	-7.50	-7.59	-11.56	-15.21	-12.48	-9.19	-6.29	-6.68	-7.09	-11.55
15	-15.66	-16.54	-12.33	-7.91	-7.23	-9.71	-10.49	-5.39	-4.21	-3.05	-4.95	-5.39	-11.55
30	-16.22	-17.31	-12.95	-9.03	-7.38	-9.41	-9.30	-3.94	-2.46	-1.12	-2.79	-3.52	-11.55
45	-16.81	-17.17	-13.37	-9.99	-7.60	-7.46	-10.74	-4.93	-3.21	-0.61	-1.01	-2.02	-11.55
60	-16.84	-15.83	-12.26	-7.90	-7.00	-3.90	-6.10	-6.34	-5.07	-0.60	0.01	-1.22	-11.55
75	-17.85	-13.68	-8.99	-4.94	-4.79	-1.95	-2.81	-3.67	-4.89	-0.76	0.15	-0.38	-11.55
90	-16.87	-12.04	-6.54	-3.63	-2.31	-0.03	-0.04	-0.44	-3.47	-0.77	-0.22	0.59	-11.55
105	-16.47	-11.70	-5.92	-2.44	-1.78	0.95	0.68	0.34	-2.24	-0.37	1.02	0.99	-11.55
120	-16.82	-11.92	-6.45	-1.04	-0.81	1.49	1.05	1.09	-1.58	-0.97	0.96	0.83	-11.55
135	-16.96	-12.76	-6.50	-1.06	0.00	1.33	0.32	0.95	-0.93	0.77	1.53	0.23	-11.55
150	-16.69	-13.84	-6.49	-1.57	-0.12	1.18	0.41	0.28	0.28	2.08	1.24	-0.37	-11.55
165	-17.46	-15.18	-6.88	-1.48	-0.44	1.37	-0.39	1.45	0.09	1.40	0.05	-0.81	-11.55
180	-16.50	-16.57	-6.87	-1.50	-0.69	1.02	0.76	0.92	1.13	1.79	-2.26	-1.08	-11.55
195	-15.98	-17.46	-7.50	-2.52	-1.50	0.55	1.00	0.39	1.22	1.25	-2.68	-1.83	-11.55
210	-15.84	-17.79	-9.28	-4.56	-2.33	-0.19	0.16	0.02	-0.23	0.41	-5.22	-3.61	-11.55
225	-15.84	-18.55	-12.24	-6.92	-3.49	-1.22	-1.61	-1.59	-3.39	-3.33	-2.77	-5.73	-11.55
240	-15.65	-19.63	-14.81	-8.29	-5.86	-2.85	-3.66	-5.06	-6.66	-5.30	-4.21	-4.65	-11.55
255	-15.27	-20.45	-15.78	-9.00	-7.59	-4.17	-6.64	-9.28	-11.22	-7.17	-7.77	-3.46	-11.55
270	-15.23	-19.96	-16.69	-9.32	-9.04	-6.48	-12.91	-14.92	-16.65	-13.92	-8.97	-5.30	-11.55
285	-15.25	-18.79	-16.06	-9.96	-10.39	-12.20	-17.56	-14.14	-14.90	-15.52	-8.83	-11.55	-11.55
300	-15.36	-17.60	-13.41	-10.86	-10.09	-19.83	-11.79	-7.40	-12.42	-14.36	-9.44	-9.56	-11.55
315	-15.72	-17.17	-11.61	-9.23	-11.48	-16.82	-7.60	-5.09	-10.11	-12.77	-8.01	-7.87	-11.55
330	-15.77	-16.85	-11.16	-7.57	-10.88	-15.62	-7.92	-7.29	-12.86	-10.78	-8.95	-8.21	-11.55
345	-15.50	-16.78	-11.53	-7.13	-8.77	-14.81	-11.48	-12.80	-17.91	-9.65	-7.95	-7.96	-11.55
360	-15.50	-16.52	-11.94	-7.50	-7.59	-11.56	-15.21	-12.48	-9.19	-6.29	-6.68	-7.09	-11.55

ANT1													
Freq	5600												
Phi\Thet a	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.65	-9.77	-8.73	-6.88	-6.93	-11.82	-8.04	-11.41	-5.97	-3.64	-0.93	-1.80	-9.36
15	-11.98	-10.47	-8.21	-3.86	-6.07	-5.96	-13.84	-4.69	-2.79	-0.90	-0.66	-2.37	-9.36
30	-12.47	-11.44	-7.71	-3.43	-6.34	-5.44	-12.56	-3.25	-3.29	-1.24	0.05	-3.85	-9.36
45	-12.33	-11.76	-8.96	-4.14	-5.14	-6.55	-3.82	-6.94	-3.90	-5.18	-2.21	-3.87	-9.36
60	-11.81	-10.63	-9.80	-4.83	-3.73	-1.38	1.57	-0.72	-0.83	-4.42	-5.90	-3.32	-9.36
75	-11.63	-9.96	-8.52	-5.67	-3.00	0.25	2.55	1.26	-0.20	-0.76	-4.65	-3.47	-9.36
90	-11.32	-9.32	-8.17	-5.26	-1.70	1.15	1.75	1.07	-1.91	0.06	-2.34	-3.08	-9.36
105	-11.28	-9.01	-7.31	-4.89	-0.91	1.74	2.84	1.93	-1.00	-2.15	-1.80	-2.49	-9.36
120	-11.46	-8.75	-6.82	-3.49	-0.06	2.75	3.98	3.20	0.30	-2.44	-3.60	-1.01	-9.36
135	-11.77	-8.46	-6.14	-2.65	0.58	4.01	4.39	4.14	-0.24	-2.83	-3.49	-0.56	-9.36
150	-12.34	-8.81	-5.55	-3.06	-0.52	4.11	3.56	3.36	-2.41	-4.57	-3.19	-0.82	-9.36
165	-13.00	-10.11	-5.54	-3.22	-1.81	3.10	2.27	1.70	-2.67	-3.68	-1.85	-1.08	-9.36
180	-12.86	-11.71	-6.52	-2.98	-0.89	3.05	2.47	2.24	-0.26	-2.68	-2.66	-0.88	-9.36

195	-12.31	-13.33	-8.62	-4.36	-2.27	1.92	2.54	1.55	-0.87	-6.18	-3.72	-0.76	-9.36
210	-11.88	-14.73	-11.30	-7.23	-5.85	0.00	0.72	-0.41	-3.89	-10.09	-3.28	-0.96	-9.36
225	-11.94	-14.96	-10.82	-6.98	-4.48	0.21	2.26	1.74	-1.05	-7.67	-5.05	-3.16	-9.36
240	-12.42	-14.02	-9.88	-4.64	-5.04	-2.02	0.63	1.23	1.21	-3.55	-6.69	-8.10	-9.36
255	-12.96	-13.02	-8.90	-5.21	-8.13	-6.40	-4.64	-2.45	-0.51	-4.99	-3.82	-9.36	-9.36
270	-13.34	-12.40	-8.12	-4.80	-6.31	-5.51	-11.36	-10.14	-5.82	-3.86	-3.97	-9.20	-9.36
285	-13.21	-12.04	-8.02	-4.34	-6.41	-3.03	-5.85	-6.13	-2.98	-14.40	-5.62	-6.45	-9.36
300	-12.99	-11.22	-9.25	-4.55	-6.89	-1.47	-3.94	-4.35	-3.08	-4.30	-5.98	-4.45	-9.36
315	-12.52	-10.35	-9.75	-5.59	-7.28	-2.60	-7.81	-4.99	-4.58	-3.99	-15.93	-2.86	-9.36
330	-11.89	-9.75	-9.49	-6.89	-6.71	-3.91	-11.51	-10.37	-8.61	-7.12	-7.02	-2.66	-9.36
345	-11.60	-9.54	-8.89	-8.46	-6.81	-5.41	-6.43	-9.38	-11.32	-6.48	-4.12	-2.41	-9.36
360	-11.65	-9.77	-8.73	-6.88	-6.93	-11.82	-8.04	-11.41	-5.97	-3.64	-0.93	-1.80	-9.36

ANT2													
Freq	2500												
Phi\Thet a	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.49	-5.09	-3.17	-0.61	-1.82	-0.70	-1.64	-2.06	-4.57	-3.47	-3.60	-3.29	-18.44
15	-6.61	-4.98	-2.95	-0.39	-1.27	-0.79	-1.27	-2.92	-5.25	-2.80	-3.61	-3.12	-18.44
30	-6.70	-4.99	-2.93	-0.25	-0.74	-0.03	-1.36	-2.58	-6.39	-4.36	-2.69	-2.94	-18.44
45	-6.76	-5.08	-3.09	-0.33	-0.43	0.20	-0.64	-2.96	-5.74	-5.45	-2.42	-2.73	-18.44
60	-6.62	-5.51	-3.74	-0.59	-1.07	0.30	-0.99	-2.92	-5.71	-5.31	-3.00	-3.12	-18.44
75	-6.58	-6.11	-4.57	-1.37	-1.78	-0.65	-1.23	-3.90	-4.94	-4.31	-4.20	-4.11	-18.44
90	-6.64	-6.76	-5.43	-2.91	-2.42	-1.78	-2.12	-4.02	-4.30	-4.34	-5.64	-5.55	-18.44
105	-6.63	-7.45	-6.34	-4.45	-3.29	-2.24	-3.16	-4.21	-4.09	-4.55	-6.09	-7.34	-18.44
120	-6.67	-8.13	-7.26	-5.65	-4.34	-3.18	-4.82	-5.44	-4.46	-5.21	-6.97	-8.73	-18.44
135	-6.71	-8.84	-8.15	-6.48	-5.33	-5.16	-7.74	-7.15	-5.78	-5.65	-7.93	-9.60	-18.44
150	-6.59	-9.58	-9.17	-7.22	-6.97	-8.36	-11.89	-7.57	-8.06	-5.34	-8.20	-11.09	-18.44
165	-6.39	-10.10	-9.95	-8.33	-9.28	-11.43	-12.12	-9.40	-9.86	-6.58	-9.34	-14.49	-18.44
180	-6.43	-10.88	-10.37	-10.98	-11.24	-11.56	-14.75	-10.96	-11.59	-7.47	-11.84	-17.15	-18.44
195	-6.32	-11.66	-11.00	-13.98	-14.66	-12.33	-12.97	-15.88	-13.14	-8.21	-11.19	-18.44	-18.44
210	-6.33	-12.19	-12.24	-16.68	-17.65	-12.90	-15.04	-13.54	-12.76	-10.03	-11.25	-15.46	-18.44
225	-6.33	-12.14	-13.93	-21.87	-17.38	-13.29	-16.57	-12.42	-12.51	-10.50	-12.77	-10.34	-18.44
240	-6.41	-11.51	-15.44	-21.64	-13.31	-12.36	-15.24	-10.29	-9.76	-11.47	-11.18	-9.80	-18.44
255	-6.29	-10.21	-14.46	-14.76	-9.81	-9.95	-12.50	-9.57	-9.09	-10.03	-9.64	-11.57	-18.44
270	-6.28	-8.86	-11.47	-9.61	-9.00	-6.91	-11.64	-9.49	-9.64	-8.07	-8.46	-7.99	-18.44
285	-6.30	-7.92	-8.50	-6.50	-7.39	-6.08	-8.70	-10.50	-10.22	-6.32	-6.56	-6.87	-18.44
300	-6.36	-7.02	-6.39	-4.44	-5.36	-4.93	-6.90	-10.51	-12.44	-6.31	-6.32	-5.82	-18.44
315	-6.38	-6.27	-5.09	-2.84	-3.29	-3.46	-4.89	-8.08	-10.76	-7.66	-7.23	-6.34	-18.44
330	-6.44	-5.78	-4.25	-1.48	-2.37	-1.93	-2.67	-4.44	-7.49	-6.35	-7.12	-6.12	-18.44
345	-6.48	-5.30	-3.62	-0.91	-1.93	-1.01	-1.52	-2.67	-5.15	-4.28	-5.11	-4.38	-18.44
360	-6.49	-5.09	-3.17	-0.61	-1.82	-0.70	-1.64	-2.06	-4.57	-3.47	-3.60	-3.29	-18.44

ANT2													
Freq	5750												
Phi\Thet a	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.47	-8.29	-4.65	-1.35	-0.49	0.17	-0.22	0.07	-1.66	-4.85	-5.84	-6.63	-7.40
15	-7.73	-7.34	-1.92	0.12	1.39	2.24	-0.10	-5.99	-9.33	-5.62	-1.22	-5.40	-7.40
30	-7.92	-5.84	-2.37	0.68	0.79	1.84	1.95	-0.58	-4.31	-8.57	-0.98	-2.30	-7.40

45	-8.04	-5.42	-2.95	0.03	0.25	-1.41	-2.62	-0.96	-1.56	-10.87	-3.17	-1.13	-7.40
60	-8.14	-6.08	-4.43	-0.38	0.05	0.11	-3.98	-3.33	-2.49	-6.03	-8.59	-0.46	-7.40
75	-7.90	-6.98	-3.90	-0.58	0.01	0.08	-1.61	-6.95	-5.19	-4.87	-6.09	0.67	-7.40
90	-7.52	-7.45	-3.77	-0.24	-0.02	-0.31	-0.61	-6.72	-7.44	-3.62	-5.72	0.50	-7.40
105	-7.42	-7.66	-3.70	-1.14	-0.27	-2.59	-2.15	-6.32	-5.96	-6.82	-7.08	-1.75	-7.40
120	-7.35	-8.15	-3.98	-1.93	-1.69	-3.99	-5.30	-5.18	-6.53	-12.74	-6.49	-3.42	-7.40
135	-7.36	-8.88	-5.67	-3.60	-2.93	-2.82	-3.02	-5.65	-14.50	-9.33	-4.60	-3.72	-7.40
150	-7.37	-9.82	-8.46	-7.47	-7.73	-7.06	-7.80	-13.56	-5.96	-7.97	-4.18	-3.53	-7.40
165	-7.21	-11.10	-12.19	-10.94	-15.22	-7.44	-5.19	-4.05	-4.04	-11.07	-8.42	-4.08	-7.40
180	-6.95	-11.81	-13.60	-13.11	-9.86	-9.19	-9.09	-10.05	-8.93	-6.93	-8.55	-4.06	-7.40
195	-6.76	-12.46	-13.56	-8.39	-8.46	-4.74	-7.71	-7.80	-4.04	-6.69	-5.05	-4.96	-7.40
210	-6.51	-13.07	-14.87	-4.61	-5.87	-6.46	-13.19	-9.95	-6.04	-7.76	-3.99	-7.21	-7.40
225	-5.99	-12.23	-11.60	-4.79	-9.21	-2.84	-3.89	-5.17	-6.90	-2.77	-6.22	-7.40	-7.40
240	-6.33	-9.69	-7.59	-4.57	-4.03	1.56	-0.68	-3.45	-3.45	-4.10	-8.28	-7.18	-7.40
255	-6.73	-7.99	-7.10	-3.80	-1.98	1.98	-1.40	-5.25	-0.68	-5.99	-12.11	-2.70	-7.40
270	-6.91	-6.74	-6.75	-2.05	-0.74	0.75	-2.15	-6.36	-0.88	-3.81	-10.47	-1.97	-7.40
285	-7.03	-5.94	-7.79	-1.30	-0.63	-0.73	-2.08	-4.74	-0.88	-3.55	-18.12	-3.26	-7.40
300	-6.97	-5.46	-6.74	-2.61	-0.32	0.94	-2.78	-4.37	-4.20	-5.08	-7.67	-5.94	-7.40
315	-6.47	-5.69	-4.87	-5.08	-2.49	2.31	0.79	0.27	-4.22	-7.03	-4.99	-4.44	-7.40
330	-6.93	-6.39	-2.96	-1.71	-2.02	-2.11	-3.35	-2.42	-5.88	-8.66	-6.72	-3.61	-7.40
345	-7.35	-7.43	-3.51	0.20	0.11	3.01	0.98	-0.96	-7.55	-7.65	-9.72	-4.38	-7.40
360	-7.47	-8.29	-4.65	-1.35	-0.49	0.17	-0.22	0.07	-1.66	-4.85	-5.84	-6.63	-7.40

ANT_BLE													
Freq	2500												
Phi\Thet a	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.43	-10.33	-8.06	-7.39	-10.24	-12.39	-10.52	-9.31	-8.33	-4.66	-2.64	0.06	-7.68
15	-6.25	-9.86	-8.09	-6.22	-9.43	-13.45	-12.40	-8.98	-9.86	-4.20	-3.02	-0.08	-7.68
30	-6.19	-8.96	-7.41	-5.16	-9.02	-9.10	-16.46	-6.78	-9.45	-3.30	-2.95	-0.46	-7.68
45	-6.22	-7.85	-5.79	-4.49	-7.14	-7.89	-13.27	-10.29	-6.50	-2.24	-2.16	-1.03	-7.68
60	-6.42	-7.01	-4.99	-3.62	-4.75	-6.67	-9.13	-9.04	-8.37	-1.59	-1.01	-1.64	-7.68
75	-6.68	-6.48	-5.15	-2.28	-3.92	-5.15	-6.18	-6.41	-7.67	-0.97	-0.65	-2.54	-7.68
90	-6.74	-6.05	-5.48	-1.65	-4.03	-3.78	-4.82	-3.90	-6.58	-1.98	-1.58	-3.94	-7.68
105	-6.80	-5.75	-5.36	-1.95	-4.88	-3.94	-4.24	-3.03	-4.97	-3.34	-2.95	-5.63	-7.68
120	-6.88	-5.52	-4.87	-2.79	-6.61	-6.26	-4.78	-2.70	-4.50	-3.75	-5.21	-6.46	-7.68
135	-6.88	-5.34	-4.51	-3.66	-8.84	-10.47	-6.28	-1.96	-4.27	-4.06	-8.82	-6.57	-7.68
150	-6.86	-5.33	-4.35	-3.86	-9.23	-14.42	-6.84	-1.78	-3.14	-4.84	-9.24	-7.05	-7.68
165	-6.98	-5.52	-4.37	-3.94	-10.11	-9.87	-5.93	-2.36	-2.73	-3.82	-8.69	-7.68	-7.68
180	-6.98	-5.64	-4.64	-4.18	-7.47	-6.07	-4.45	-2.60	-1.74	-2.89	-6.04	-7.19	-7.68
195	-6.95	-5.76	-4.29	-3.05	-6.48	-4.00	-2.93	-1.61	-0.12	-1.41	-4.46	-6.09	-7.68
210	-6.92	-5.80	-3.69	-2.11	-6.82	-2.78	-2.20	-0.23	0.21	-0.07	-5.09	-5.21	-7.68
225	-6.88	-5.70	-3.29	-1.71	-5.78	-5.90	-1.69	-1.17	0.84	-0.53	-5.75	-4.00	-7.68
240	-6.80	-5.67	-3.13	-0.91	-5.41	-8.16	-6.01	-1.18	-0.98	-2.45	-4.87	-2.79	-7.68
255	-6.80	-5.73	-3.00	-0.64	-4.99	-8.47	-11.37	-3.70	-3.73	-1.66	-3.00	-1.47	-7.68
270	-6.65	-6.11	-3.10	-1.38	-4.81	-10.54	-14.86	-7.06	-4.57	-1.14	-1.47	-0.15	-7.68
285	-6.38	-6.79	-3.57	-2.87	-5.94	-14.27	-15.95	-7.17	-6.03	-1.20	-0.52	0.73	-7.68
300	-6.22	-7.56	-4.41	-4.70	-8.42	-14.64	-15.21	-7.52	-6.54	-0.84	-0.31	0.98	-7.68
315	-6.21	-8.47	-5.60	-6.28	-12.55	-13.92	-10.40	-7.23	-7.52	-1.03	-0.57	0.69	-7.68
330	-6.36	-9.38	-6.89	-7.23	-13.67	-9.45	-8.41	-9.55	-5.73	-2.93	-1.34	0.30	-7.68

345	-6.51	-10.14	-7.92	-7.67	-11.66	-9.19	-8.94	-8.30	-7.32	-4.29	-2.12	0.11	-7.68
360	-6.43	-10.33	-8.06	-7.39	-10.24	-12.39	-10.52	-9.31	-8.33	-4.66	-2.64	0.06	-7.68