

DCN ANT-2458-6X7Y

室外双频全向天线

2.4G 6dBi Dipole Antenna

1. Feature

- * External type dipole antenna
- * 2.4GHz of frequency
- * N-YPTE Plug Stright interface
- * Plastic rod of white
- * IP67
- * RoHS compliance

2. Application

- * 2.4GHz Wireless Communication
- * WLAN device, WLAN Router, e.g., AP, PIC Wireless Card

3. Description

This miniature antenna is designed for 2.4GHz applications and can be easily built-in portable devices with N-TYPE processes. It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

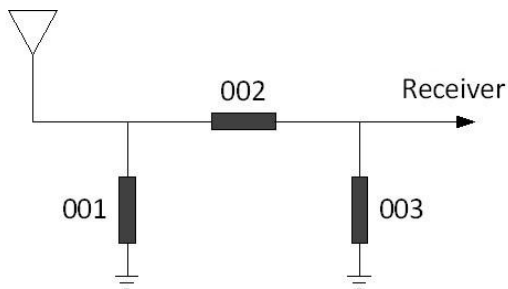


4. General Data

Product Name	6dBi2.4G Dipole Antenna
Part No.	126-002-379
Frequency	2.4~2.5GHz
V.S.W.R	≤ 2.0
Gain (dBi)	2.4GHz@6.0dBi
Polarization	Linear,Vertical
Storage Temp	-40℃~+70℃
Operating Temperature	-40℃~+70℃
Impedance with Matching	50 Ω
Weight	20 g
Antenna Type	N-TYPE PLUG Stright
Dimension	L318X ϕ 21 (mm)

5. Typical Electrical Characteristics

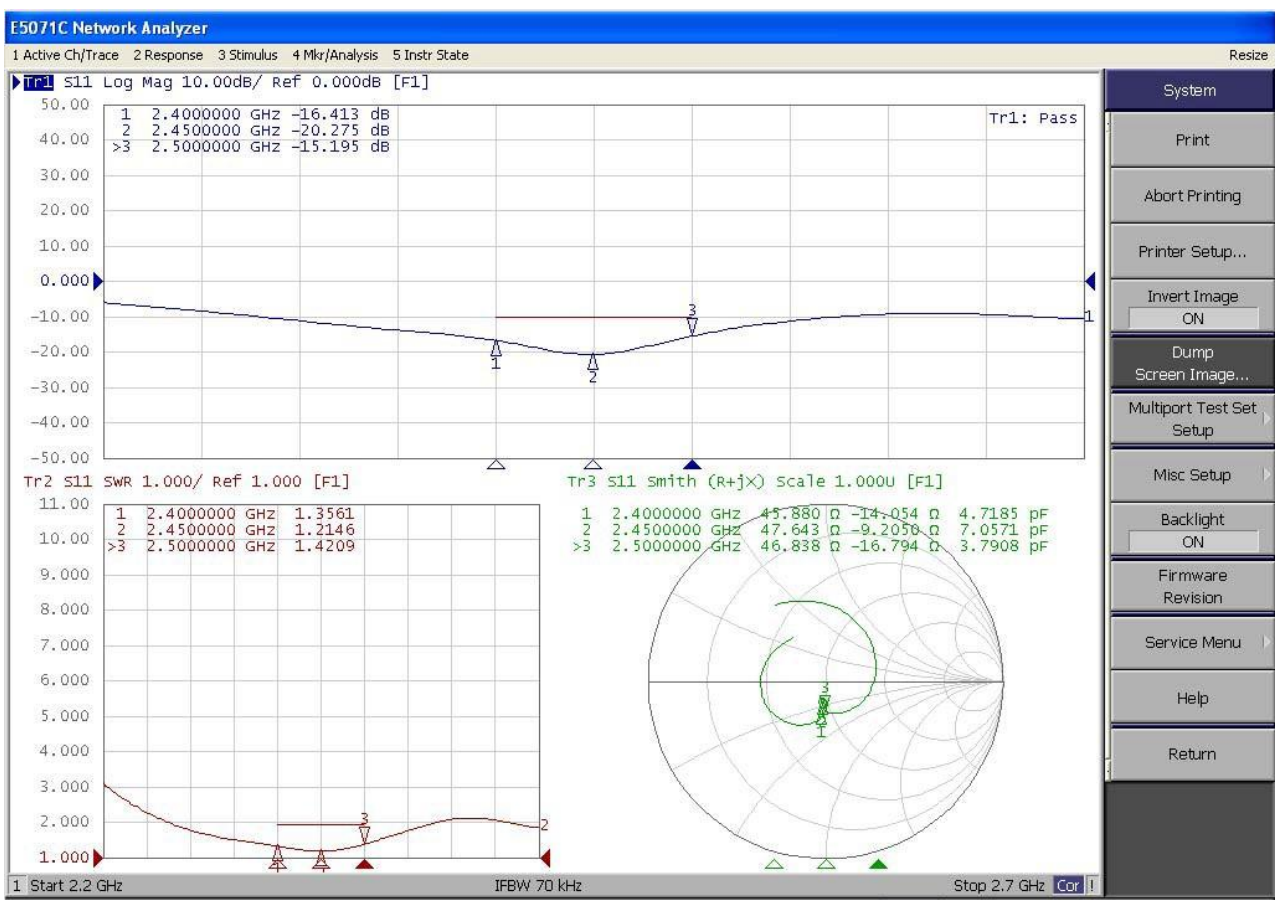
- Recommend Matching Circuit



Reference:

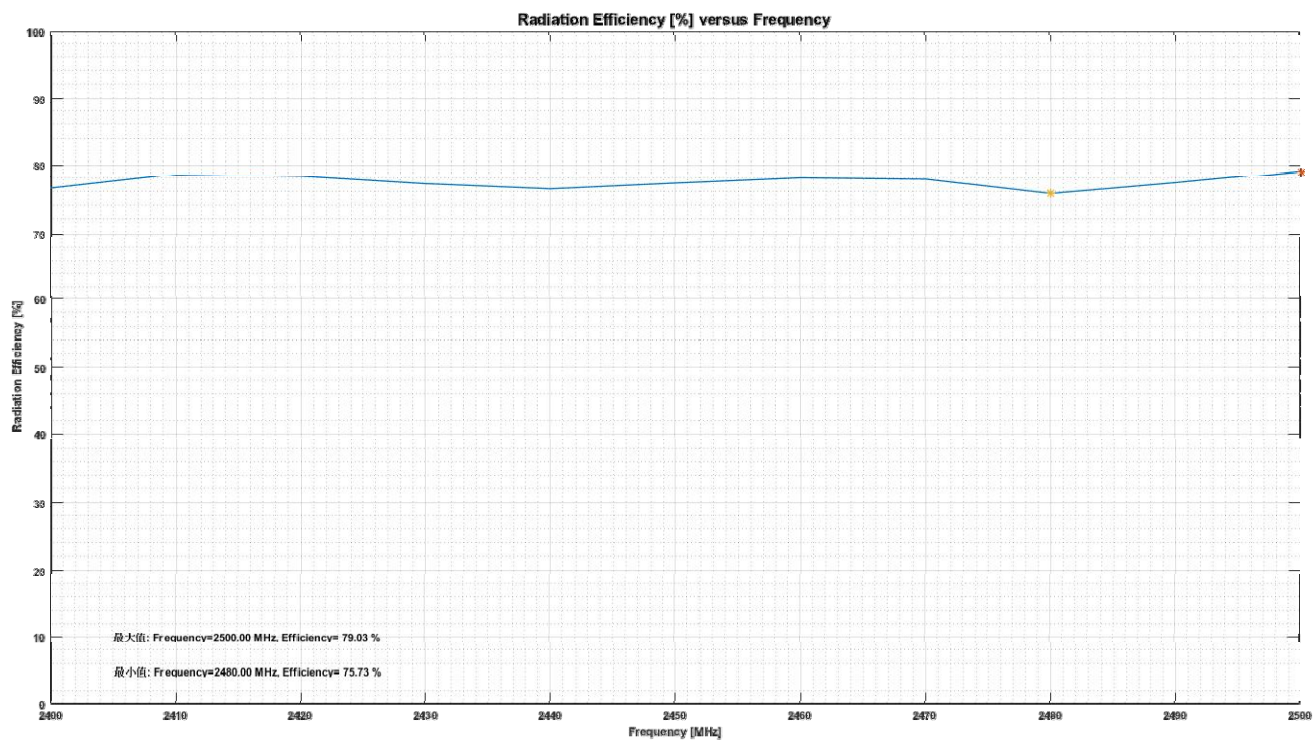
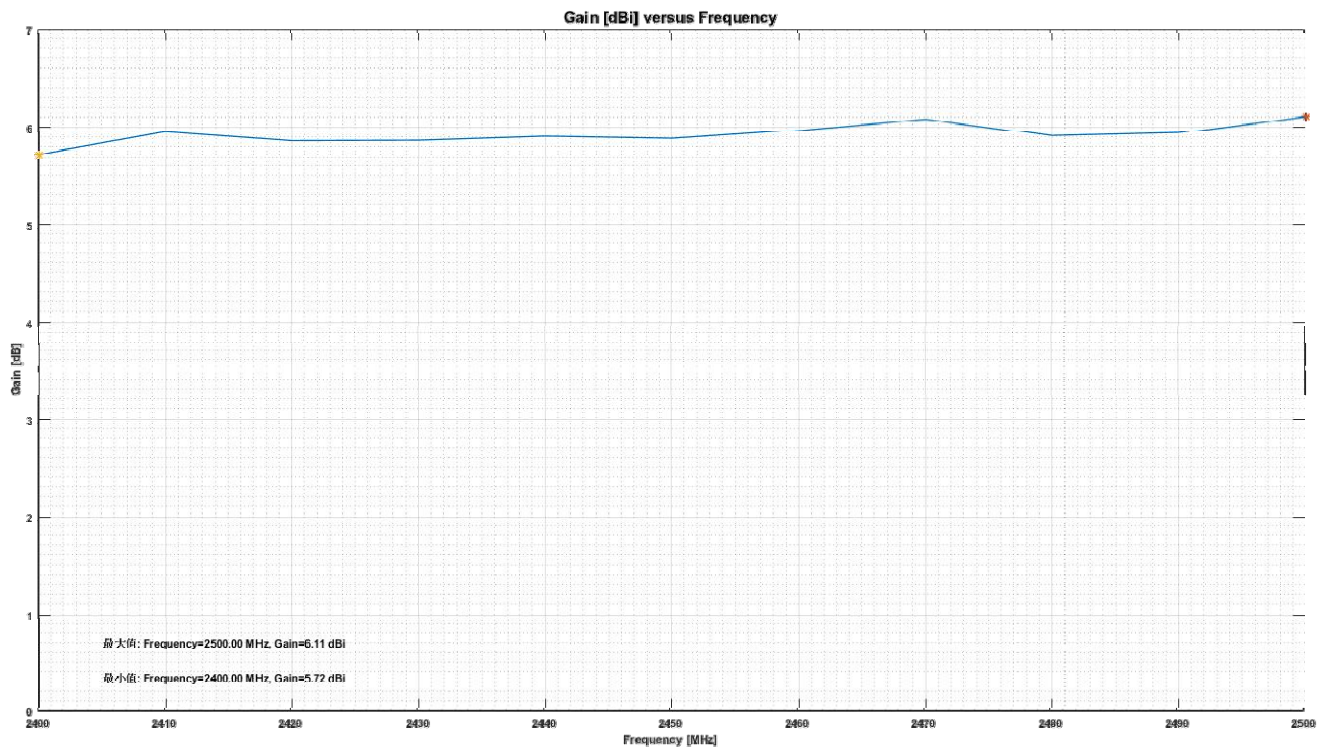
001=(N/A)
002=0 Ω
003=(N/A)

- Return loss、VSWR& Smith chart

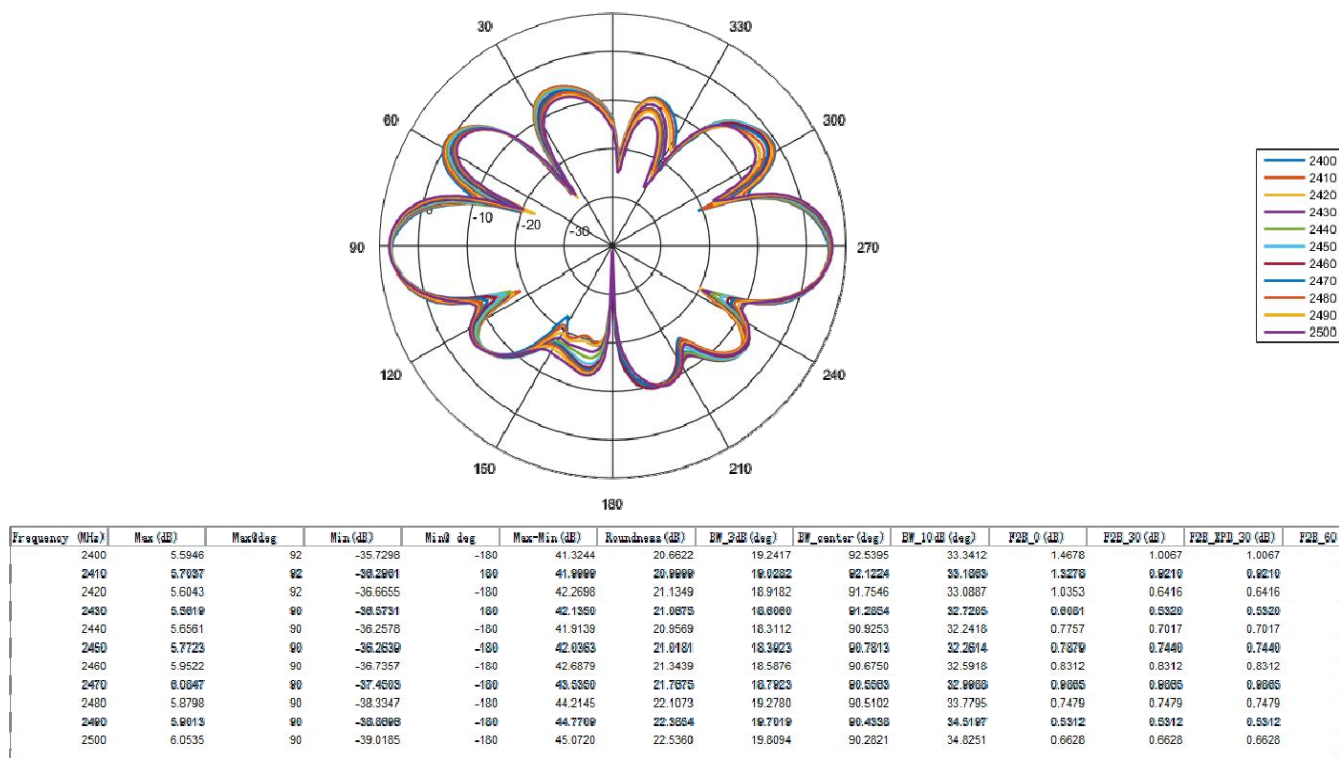


➤ **Efficiency (%)&Gain (dBi)**

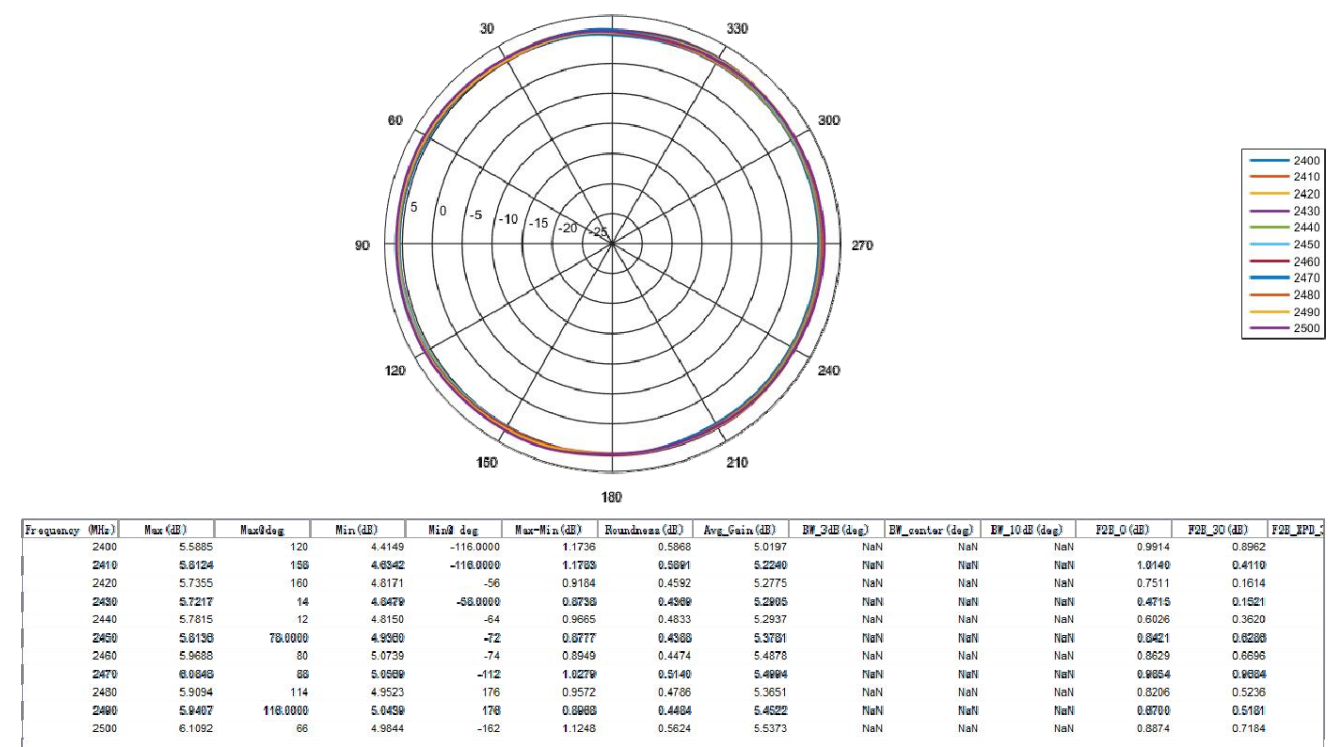
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Directivity(dB)	6.8836	6.9978	6.9222	6.9879	7.071	7.0028	7.0477	7.175	7.1169	7.0593	7.1311
Gain(dB)	5.721	5.9487	5.8564	5.8607	5.9021	5.8807	5.9688	6.0848	5.9094	5.9407	6.1092
Efficiency(dB)	-1.1626	-1.0492	-1.0658	-1.1272	-1.1689	-1.1221	-1.079	-1.0902	-1.2074	-1.1186	-1.0219
Efficiency(%)	76.5146	78.5383	78.2377	77.14	76.403	77.2303	78.0013	77.8003	75.7282	77.2928	79.0341

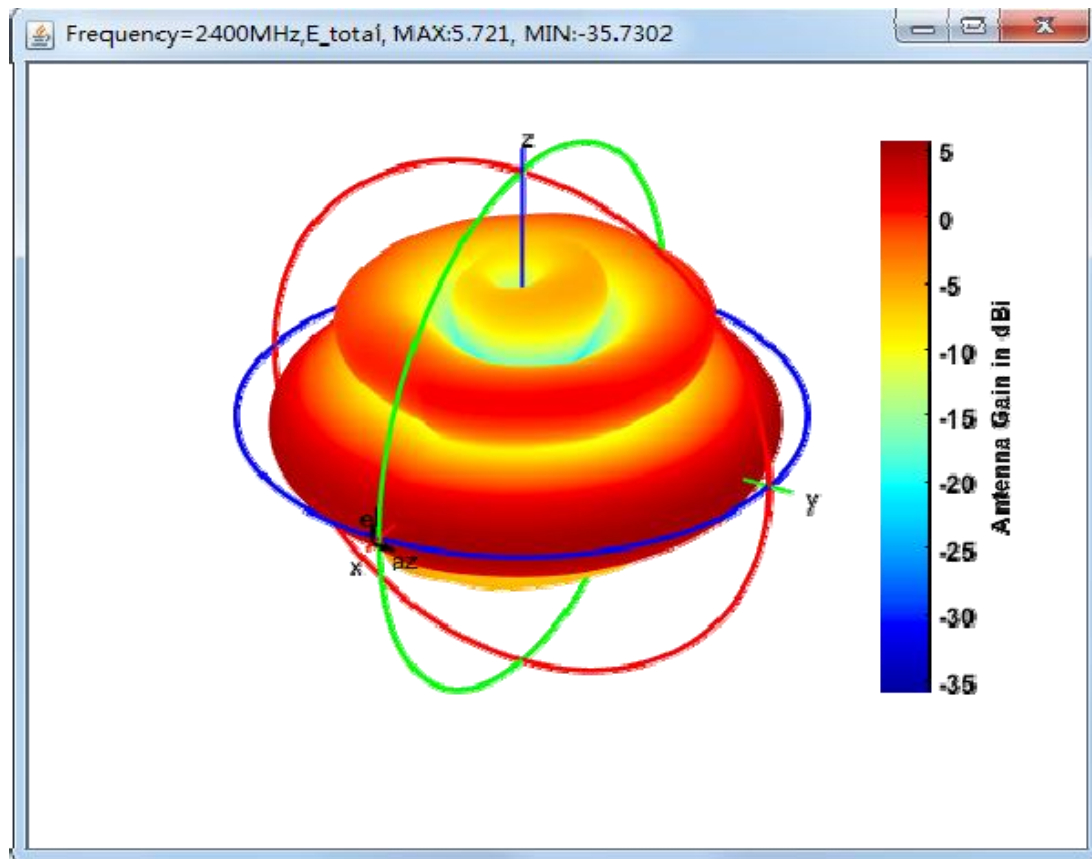


phi90°

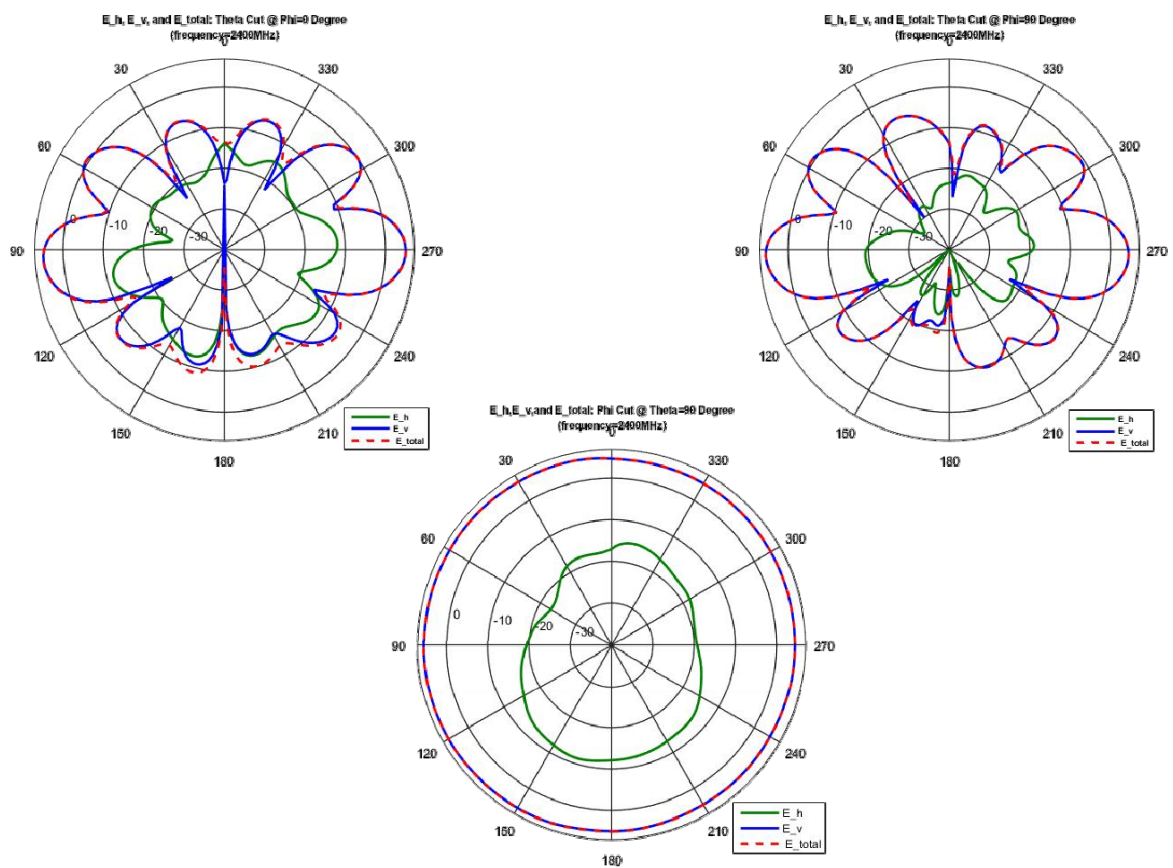


theta90°

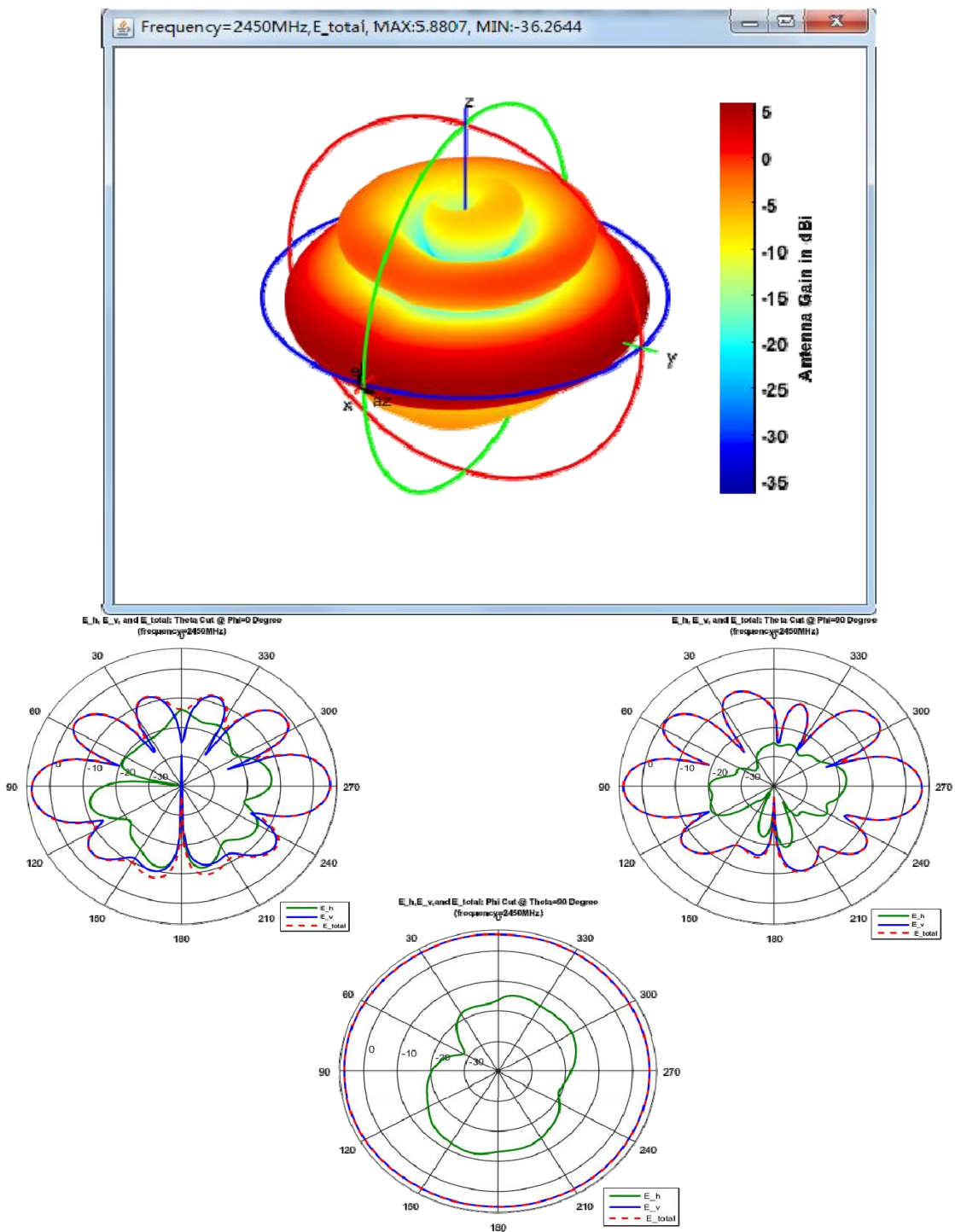




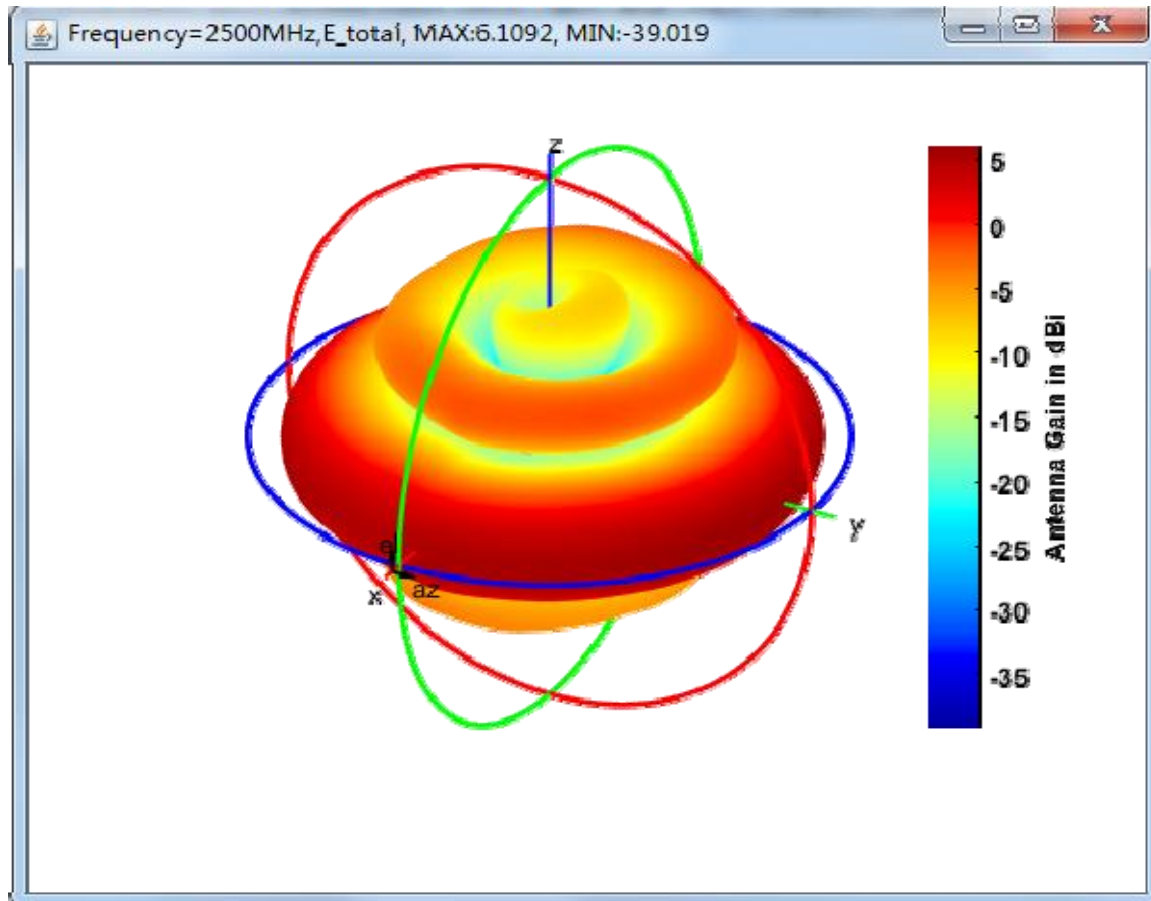
Gain (dBi) Frequency = 2400 MHz

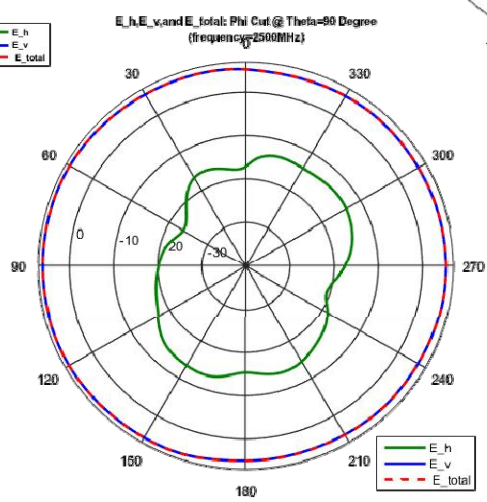
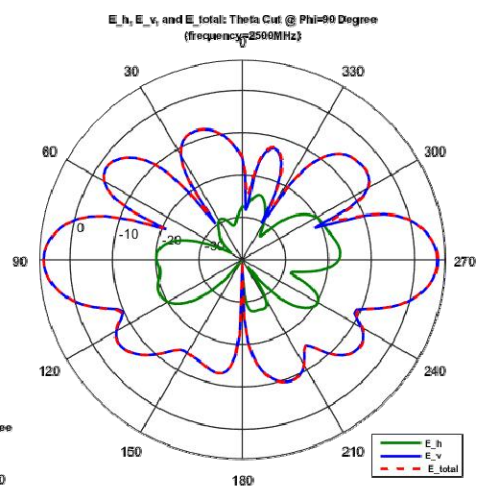
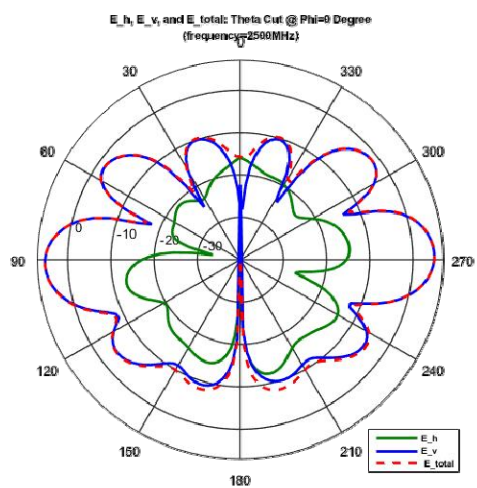


- **Gain (dBi)**
Frequency = 2450 MHz



- **Gain (dBi)**
Frequency = 2500 MHz





5.8G 7dBi Dipole Antenna

1. Feature

- * External type dipole antenna
- * 5.8GHz of frequency
- * N-YPTE Plug Stright interface
- * Plastic rod of white
- * IP67
- * RoHS compliance

2. Application

- * 5.8GHz Wireless Communication
- * WLAN device, WLAN Router, e.g., AP, PIC Wireless Card

3. Description

This miniature antenna is designed for 5.8GHz applications and can be easily built-in portable devices with N-TYPE processes. It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

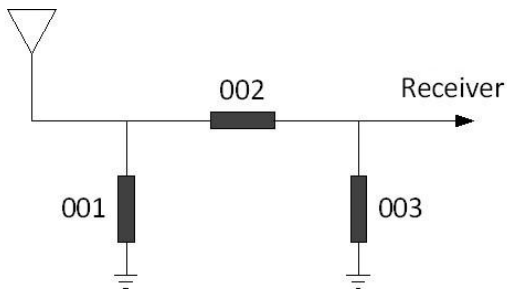
4. General Data

Product Name	7dBi5.8G Dipole Antenna
Part No.	126-002-380
Frequency	5.15~5.85GHz
V.S.W.R	≤2.0
Gain (dBi)	5.55GHz@7.0dBi
Polarization	Linear,Vertical
Storage Temp	-40℃~+70℃
Operating Temperature	-40℃~+70℃
Impedance with Matching	50 Ω
Weight	15g
Antenna Type	N-TYPE PLUG Stright
Dimension	L200X Φ 21 (mm)



5. Typical Electrical Characteristics

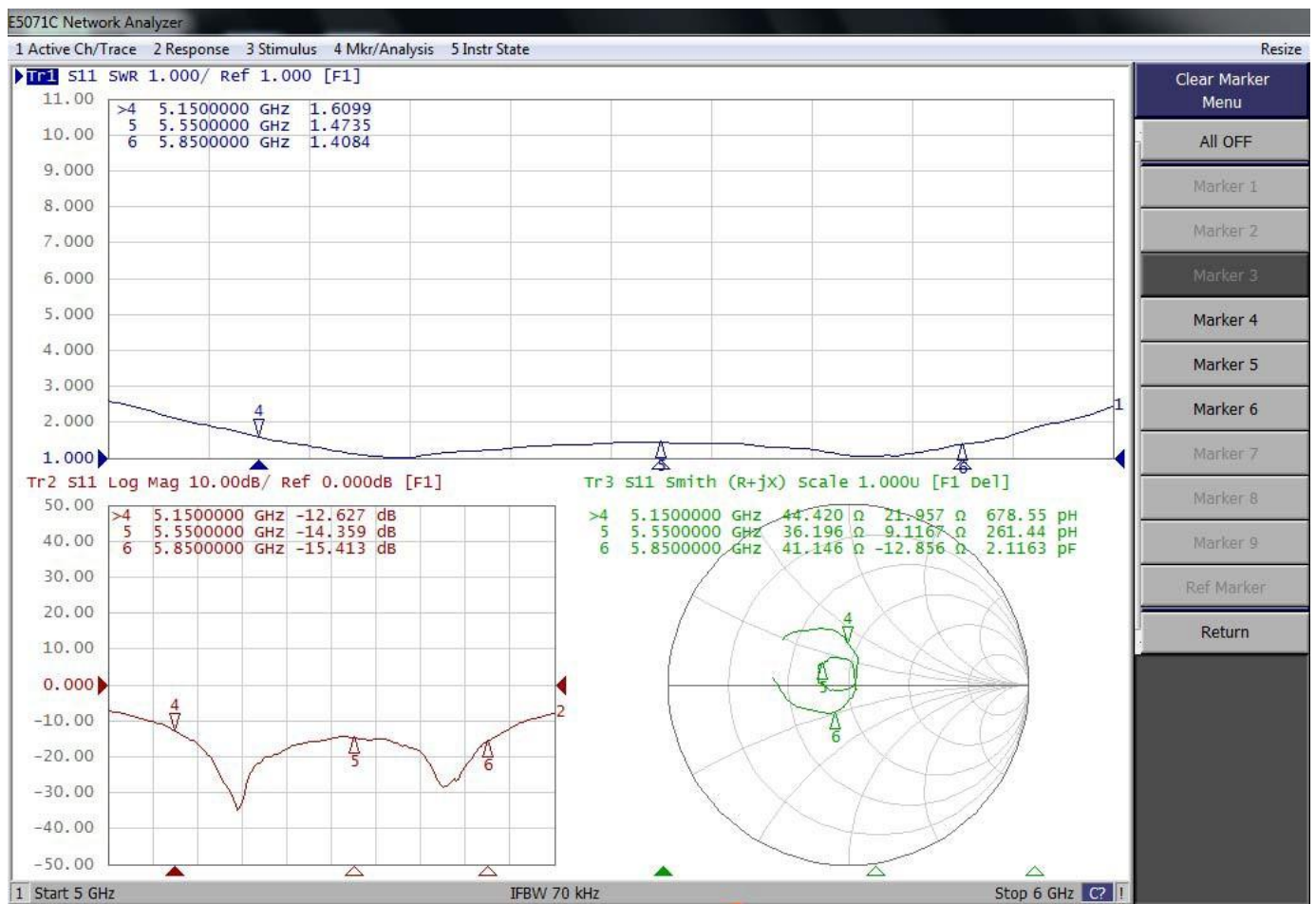
- Recommend Matching Circuit



Reference:

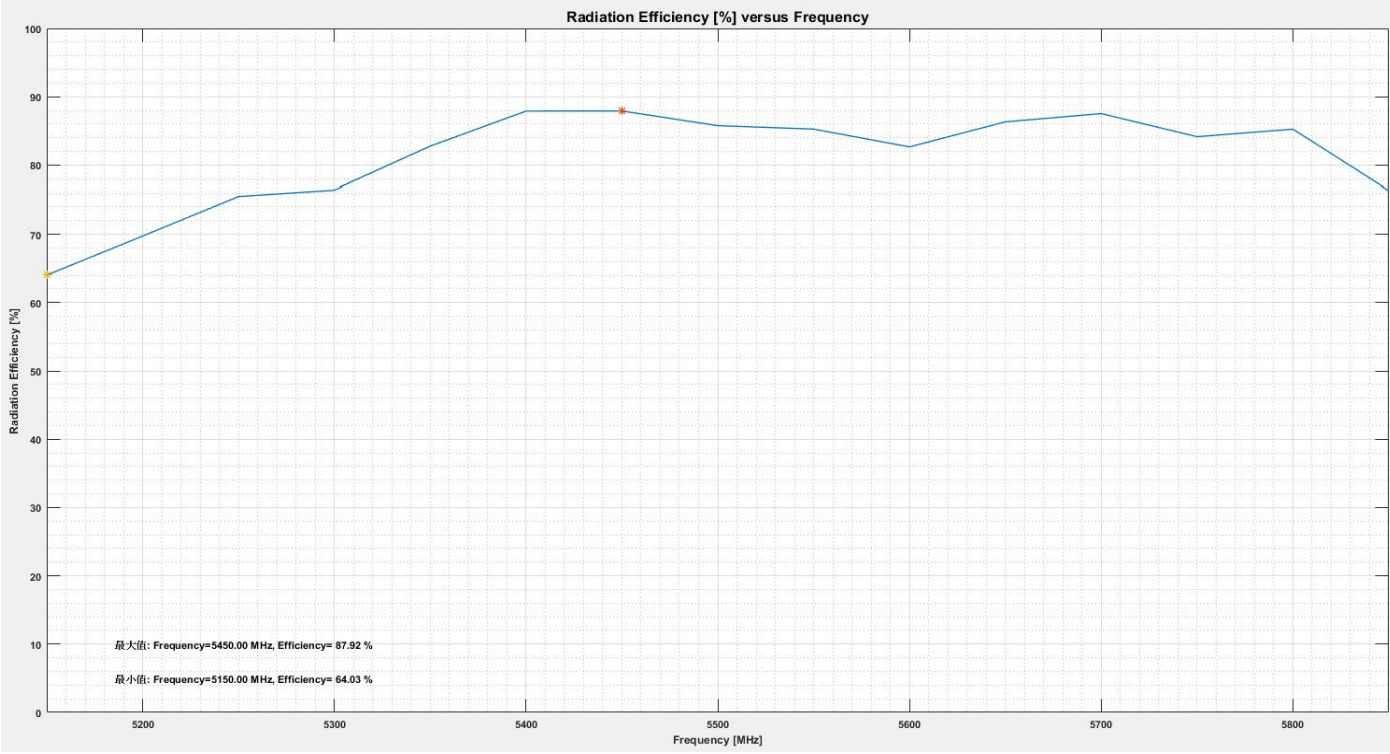
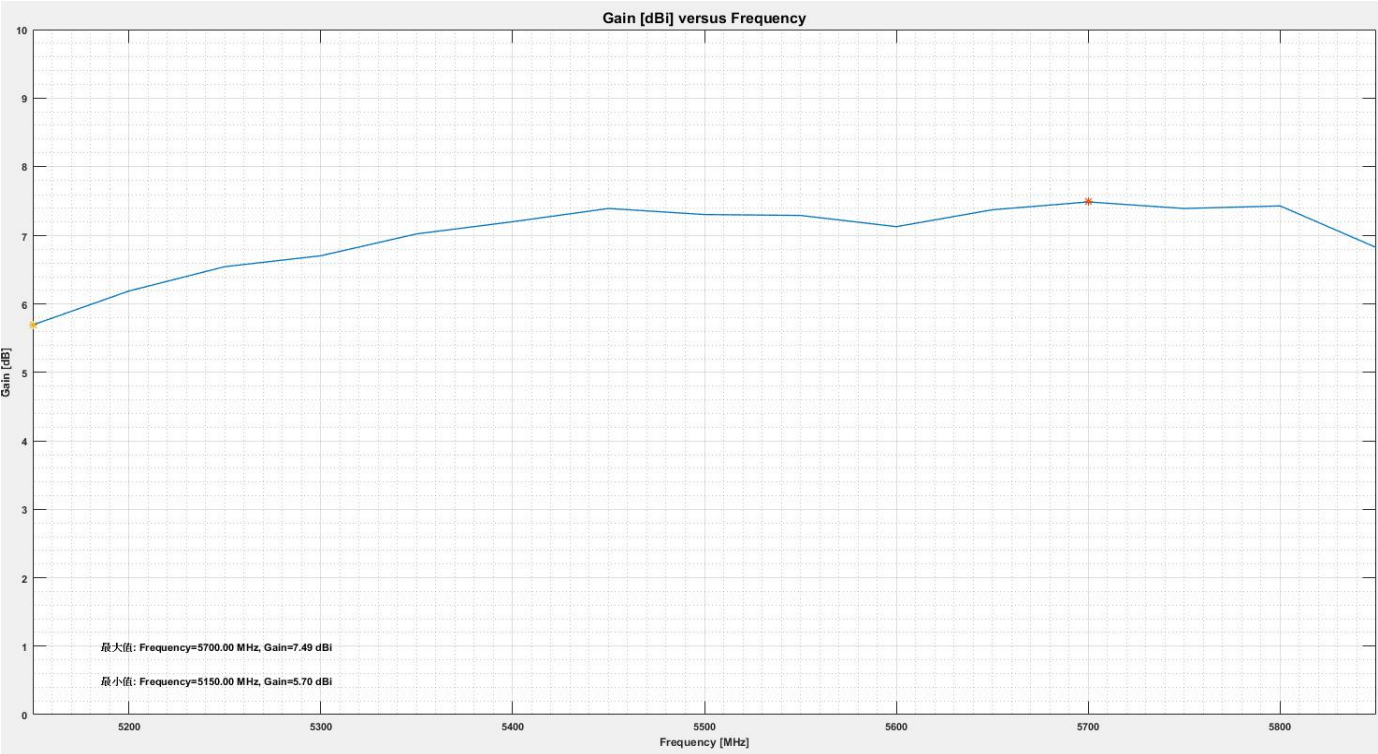
001=(N/A)
002=0 Ω
003=(N/A)

- Return loss、VSWR& Smith chart

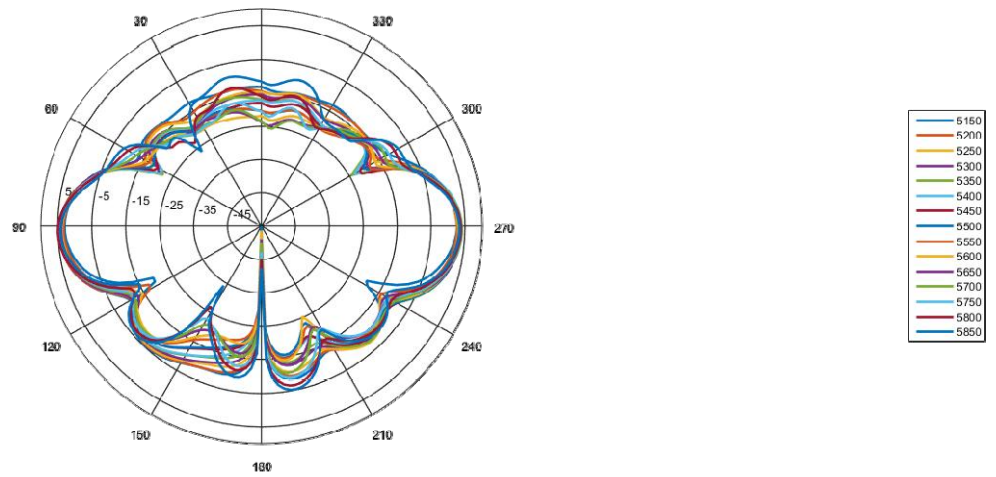


- Efficiency (%)&Gain (dBi)

Frequency (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Directivity (dB)	7.6325	7.7562	7.7672	7.8742	7.8478	7.7643	7.9576	7.9764	7.9888	7.9598	8.0178	8.0723	8.1473	8.1286	8.0015
Gain (dB)	5.6963	6.1912	6.5475	6.7071	7.0268	7.2045	7.3983	7.3097	7.2966	7.1328	7.3793	7.494	7.3981	7.4358	6.8281
Efficiency (dB)	-1.9363	-1.565	-1.2198	-1.1672	-0.8209	-0.5598	-0.5593	-0.6667	-0.6922	-0.8269	-0.6385	-0.5783	-0.7492	-0.6928	-1.1734
Efficiency (%)	64.0285	69.743	75.5136	76.4333	82.7764	87.9057	87.9169	85.7699	85.2665	82.662	86.3276	87.5324	84.1554	85.2555	76.3242

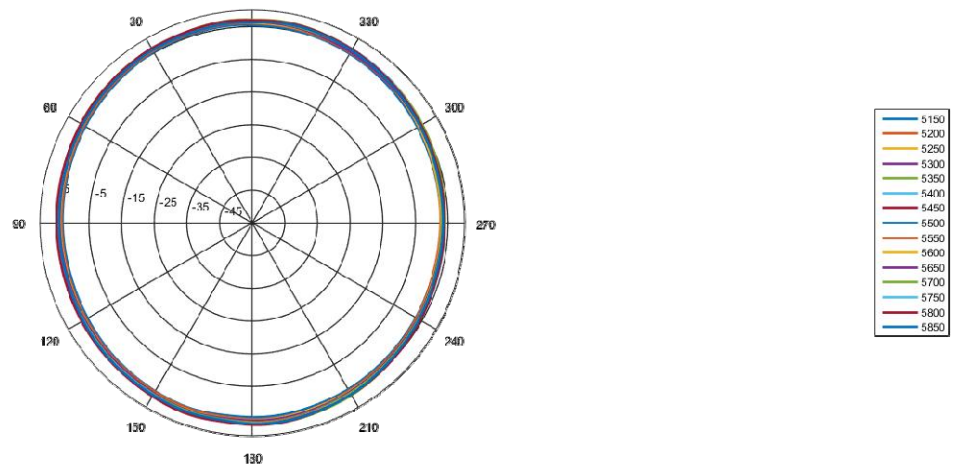


phi90°



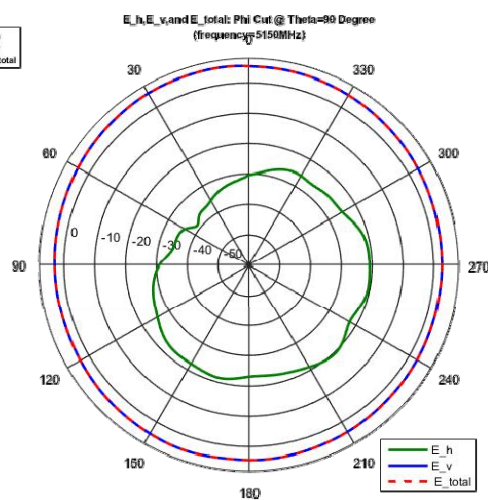
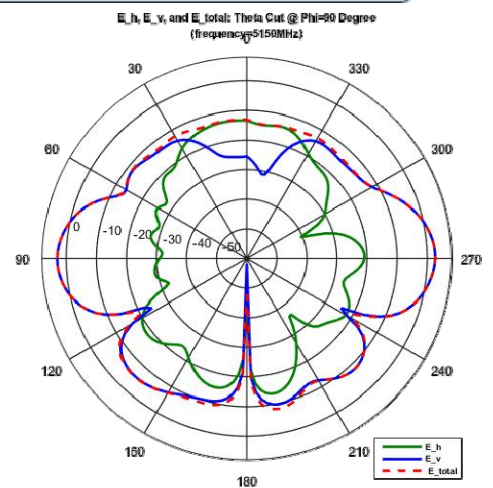
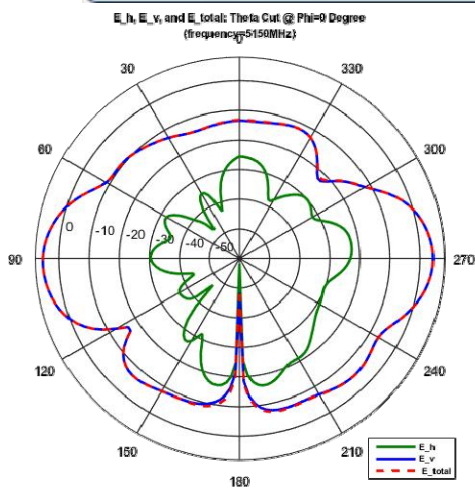
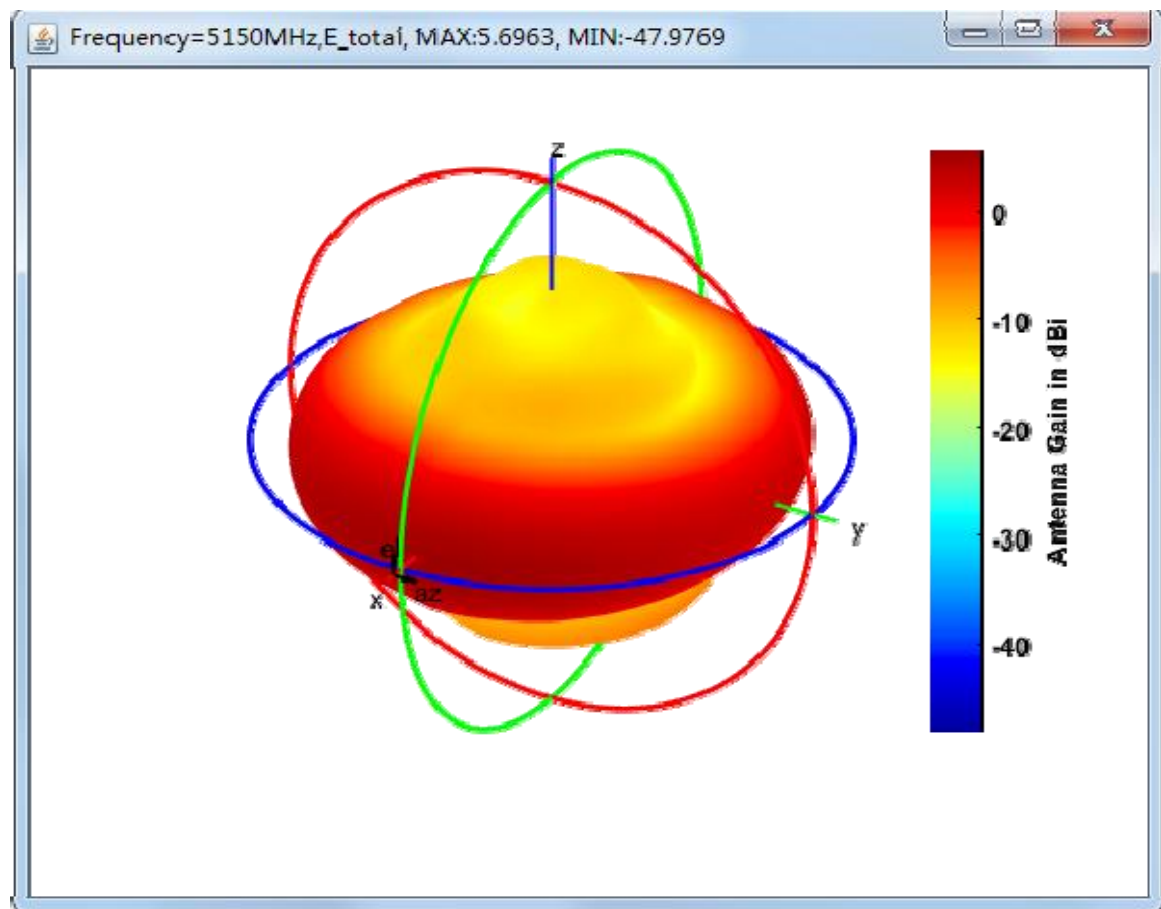
Frequency (MHz)	Max (dB)	Maxdeg	Min (dB)	Mindeg	Max-Min (dB)	Roundness (dB)	RW_3dB (deg)	RW_center (deg)	RW_10dB (deg)	F2R_0 (dB)	F2R_30 (dB)	F2R_45 (dB)	F2R_60 (dB)	F2R_75 (dB)	F2R_90 (dB)
5150	3.0299	90	-47.9764	-130	51.0063	25.5031	23.8404	90.5519	41.9660	0.3426	0.3426	0.3426	0.3426	0.3426	34.0194
5200	3.3458	92	-43.7448	130	52.0902	28.0451	24.4438	91.1474	42.7724	0.8399	0.8399	0.8399	0.8399	0.8399	28.4280
5250	3.8085	92	-43.1656	130	51.9741	25.9870	24.4859	91.5312	42.7837	1.0690	0.8539	0.8539	0.8539	0.8539	28.6524
5300	4.0241	92	-51.8999	130	56.9239	27.0815	24.5130	92.1391	42.8914	1.0055	0.8104	0.8104	0.8104	0.8104	28.2318
5350	4.3583	92	-51.6603	-130	56.0186	28.0095	24.1832	92.4583	42.7612	1.3363	1.1183	1.0183	1.0183	1.0183	28.5218
5400	4.5955	92	-51.5884	130	58.0899	28.0349	24.4177	92.4901	43.1317	0.8129	0.5854	0.5854	0.5854	0.5854	27.3180
5450	4.7490	92	-51.1912	130	55.9403	27.9701	24.0255	92.4038	42.7702	1.2473	0.9553	0.9553	0.9553	0.9553	26.5069
5500	4.5804	92	-54.8832	130	59.4238	29.7116	23.9440	93.2099	42.9793	1.2121	0.8318	0.8318	0.8318	0.8318	28.2823
5550	4.6657	92	-51.5147	130	56.1803	28.0902	23.8456	93.1822	42.8050	1.0802	0.8191	0.8191	0.8191	0.8191	25.2571
5600	4.4278	92	-53.8857	130	58.1727	29.0884	23.2291	93.1599	42.2433	1.2894	0.8659	0.8659	0.8659	0.8659	24.7715
5650	4.6107	92	-51.0928	130	55.7035	27.8517	23.8345	93.1387	42.6192	0.9890	0.7110	0.7110	0.7110	0.7110	23.4400
5700	4.9894	92	-49.9829	130	54.9829	27.4929	22.2899	93.1194	41.0903	1.0279	0.6918	0.6918	0.6918	0.6918	22.3132
5750	4.8986	92	-47.1508	130	51.9475	28.9228	22.2323	93.1142	41.0646	1.2137	0.9397	0.9397	0.9397	0.9397	21.8317
5800	4.8939	92	-43.2147	130	50.2068	28.1043	21.2377	93.1102	39.8878	1.3784	1.1318	1.1318	1.1318	1.1318	20.1039
5850	4.2185	92	-42.3318	130	46.5453	23.2741	20.6047	93.1459	39.9021	1.0478	0.7499	0.7499	0.7499	0.7499	18.7545

theta90°

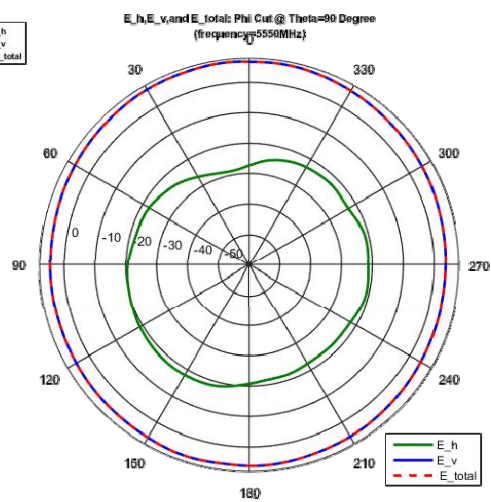
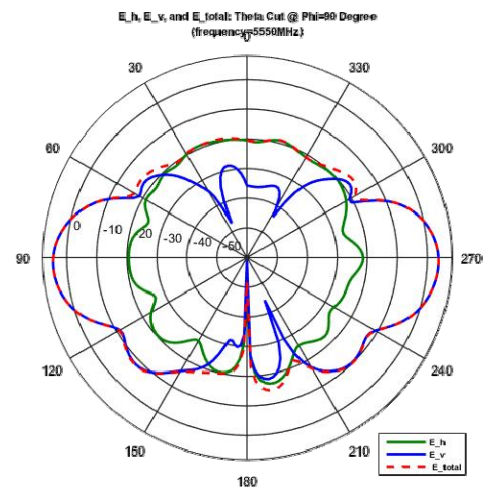
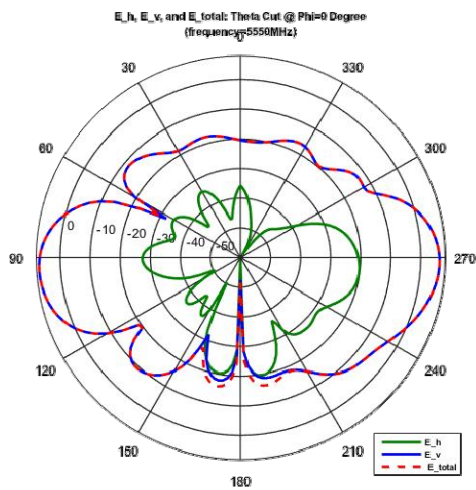
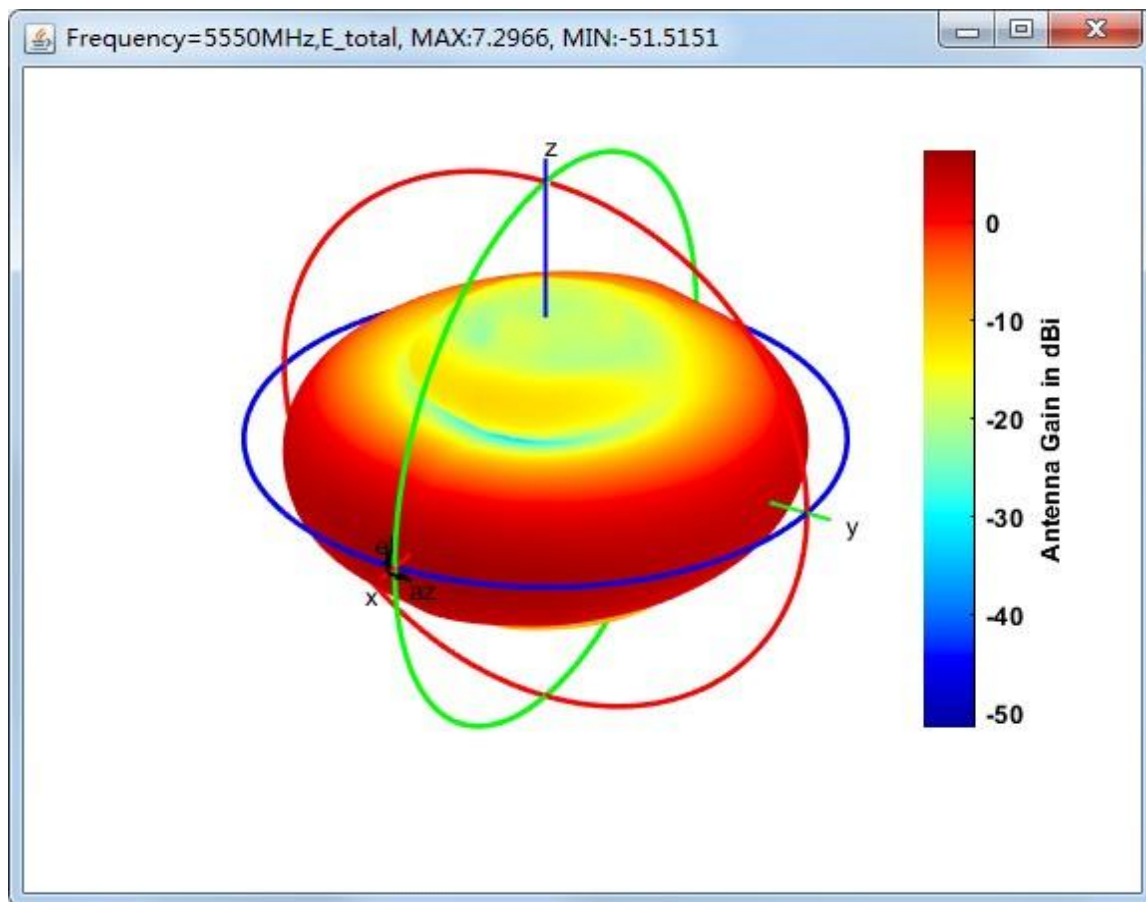


Frequency (MHz)	Max (dB)	Maxdeg	Min (dB)	Mindeg	Max-Min (dB)	Roundness (dB)	Avg_Gain (dB)	RW_3dB (deg)	RW_center (deg)	RW_10dB (deg)	F2R_0 (dB)	F2R_30 (dB)	F2R_45 (dB)	F2R_60 (dB)	F2R_75 (dB)	F2R_90 (dB)
5150	5.6963	8	2.5289	-134.3000	3.1673	1.5837	4.0188	235.4070	78.3927	NaN	1.3378	0.9759	0.9759	0.9759	0.9759	0.9759
5200	6.1200	0	2.4908	-102	3.6292	1.0140	4.3004	211.1734	82.0683	NaN	1.0718	1.0207	1.0207	1.0207	1.0207	1.0207
5250	6.4225	8	2.8791	-100	3.5433	1.8017	4.1747	301.8897	85.1473	NaN	1.3293	0.9747	0.9747	0.9747	0.9747	0.9747
5300	6.5871	8	3.0408	-102	3.5463	1.7582	4.0867	312.8824	83.4807	NaN	1.1838	0.9831	0.9831	0.9831	0.9831	0.9831
5350	6.8302	8	3.2955	-98.3000	3.5347	1.8184	3.1805	308.8530	83.5727	NaN	0.8437	0.8072	0.8072	0.8072	0.8072	0.8072
5400	6.9459	8	4.0295	-100	2.9164	1.6822	3.4958	NaN	NaN	NaN	0.8827	0.7458	0.7458	0.7458	0.7458	0.7458
5450	7.1710	0	3.0807	-102	3.5902	1.7021	3.2038	310.1930	79.5090	NaN	0.7000	0.7034	0.7034	0.7034	0.7034	0.7034
5500	7.0709	0	3.5807	-90	3.4901	1.7391	3.4209	309.0309	81.4420	NaN	0.8545	0.7809	0.7809	0.7809	0.7809	0.7809
5550	7.0365	8	3.8925	-102	3.3440	1.6720	3.4502	321.4944	81.5168	NaN	0.8591	0.7543	0.7543	0.7543	0.7543	0.7543
5600	6.8965	8	3.3917	-98.3000	3.4978	1.7409	3.3484	312.5935	84.4705	NaN	0.8125	0.5842	0.5842	0.5842	0.5842	0.5842
5650	7.1678	8	3.7668	-100	3.3411	1.6795	3.5832	319.6835	83.7196	NaN	0.7102	0.6836	0.6836	0.6836	0.6836	0.6836
5700	7.2229	-8	3.8140	-102	3.2402	1.0741	3.7029	322.7020	79.9114	NaN	1.0295	0.4812	0.4812	0.4812	0.4812	0.4812
5750	7.0815	8	3.8998	-98	3.3917	1.6959	3.5881	314.0597	85.2186	NaN	0.4755	0.4634	0.4634	0.4634	0.4634	0.4634
5800	7.0844	8	3.8795	-98	3.2749	1.8575	3.6952	324.5550	88.3393	NaN	0.3085	0.2739	0.2739	0.2739	0.2739	0.2739
5850	6.6965	-12	3.3904	-98.3000	3.3061	1.6530	3.2059	321.6071	85.2533	NaN	0.7374	0.1987	0.1987	0.1987	0.1987	0.1987

- **Gain (dBi)**
Frequency = 5150 MHz



- **Gain (dBi)**
Frequency = 5550 MHz



- Gain (dBi)
Frequency =

