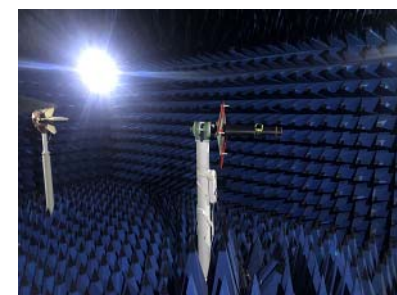


Test Report of Antenna of Youlimaike T3501

Radio frequency: Hong Yuankai

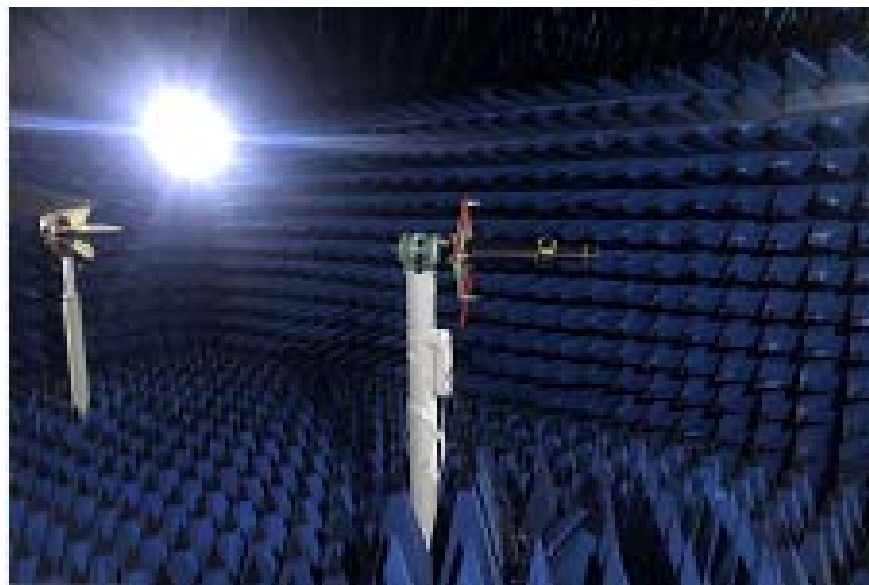
Date: 2025.12.08

Contact: 15119409299



Project development environment

As we transition from the Internet era to the intelligent era, China is actively building a digital society and smart cities. Over the next 5-10 years, both the consumer electronics market and the Internet of Things (IoT) sector will demonstrate tremendous growth potential. The wireless communications field is highly diversified. In the future, Yusheng will leverage its core strengths in antenna technology, customer platform advantages, and comprehensive capabilities to deliver professional-grade product solutions with strong market competitiveness.



Yusheng Communications product portfolio covers nearly all antenna applications for wireless terminal devices, including automotive antennas, high-precision surveying and mapping antennas, UAV ground and satellite data navigation antennas, high-precision positioning antennas, wireless transmission antennas for medical devices, consumer-grade antennas (for mobile phones, tablets, and laptops), base station and indoor distribution antennas, smart wearable antennas (for smartwatches and TWS earphones), security and home automation antennas, as well as antennas for various wireless data transmission and control smart devices. 致力于为客户提供专业级天线解决方案

- 1 Project Debugging Introduction
- 2 Report Version Outline
- 3 mainboard conduction
- 4 active antenna parameter
- 5 antenna source free parameter
- 6 Summary & Notes

Project Debugging
Introduction

type			
template	motherboard		
Band and antenna material		frequency range	material quality
	main antenna	4G: B1/2/3/4/5/7/12/13/14/17/18/19/20/25/26/38/ 40/41/66/71	FPC
	diversity antenna	700MHz-960MHz, 17 00MHz2700MHz	FPC
	four-harmonic antenna	1575.42MHz/2400MHz-2500MHz/5100MHz-5800MHz	FPC
performance requirement	Implement according to customer requirements		

Report Version Outline

Report Version	Report time	The problems solved by the antenna development
V0.2	2025. 10. 10	Sample Passive Testing Report
V0.3	2025. 10. 23	Sample Active Testing Report
V0.4	2025. 11. 10	Complete Machine Test Report (Updated with Split Set Matching)
V0.5	2025. 11. 11	Complete Machine Test Report
V0.6	2025. 12. 03	Complete Machine Test Report
V0.7	2025. 12. 07	Whole Machine Test Report (Optimized Main Antenna Matching and 4-in-1)
V0.8	2025. 12. 08	Complete Machine Test Report (Specs Document)

master antenna
switch logic

RF1 (10pF)	LTE-B1/2/3/4/5/7/18/19/20/25/26/38/ 40 /41/ 66
RF2 (6.8 nH)	LTE-B13/14
RF3 (33nH)	LTE-B12/17
RF4 (100 nH)	LTE-B71

main antenna
matching

Main antenna main
path matching:

L8531:100nH

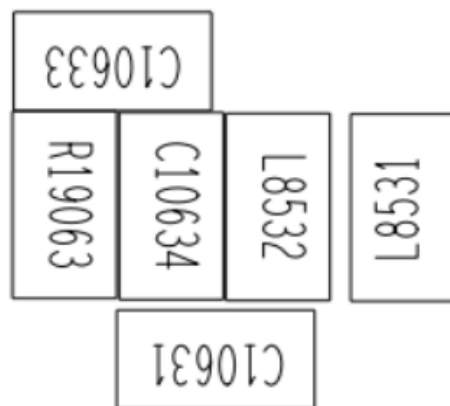
C10631: 33pF

L8532: 7.5nH

C10631: NC

R19063: 6.8pF

C10633: NC



Main antenna switch
matching:

C10626: 56pF

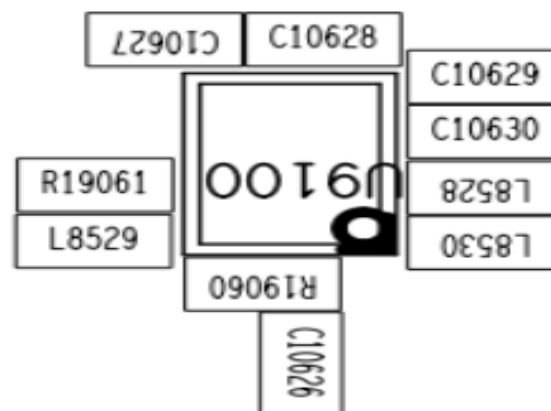
R19060: NC

L8528: RF1, 10pF

R19061: RF2, 6.8 nH

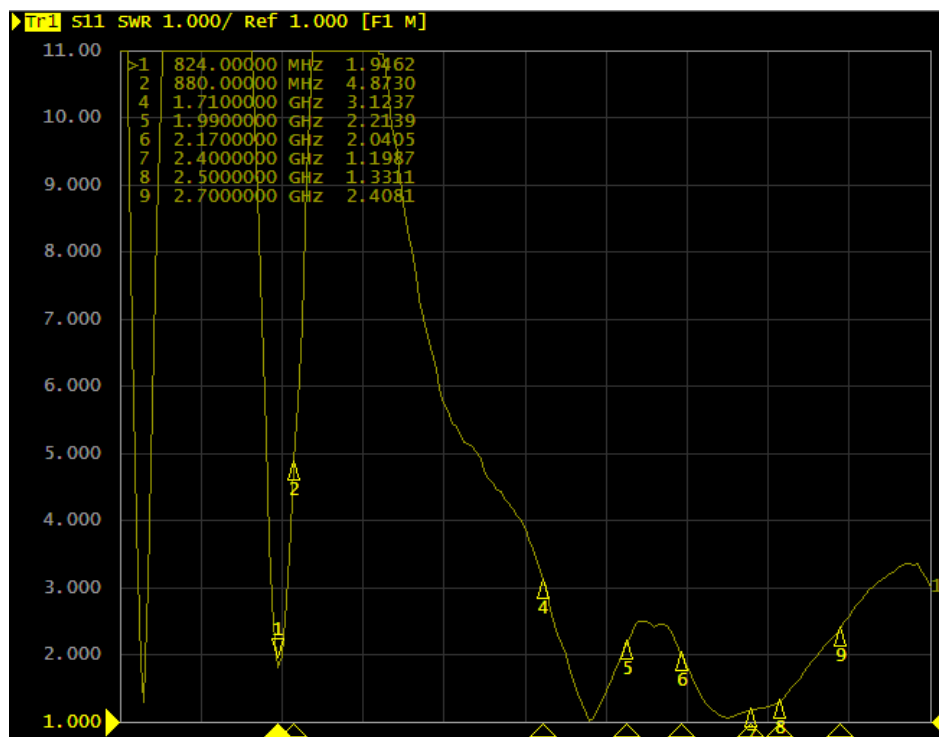
L8529: RF3, 33nH

L8530: RF4, 100 nH

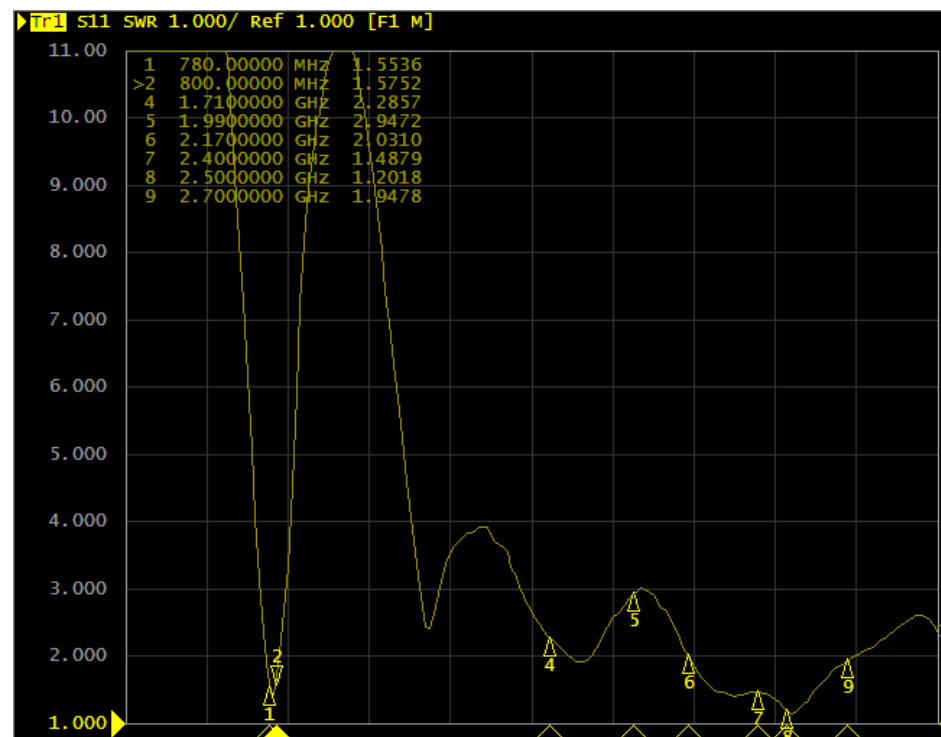


passive parameters of main antenna

RF1:

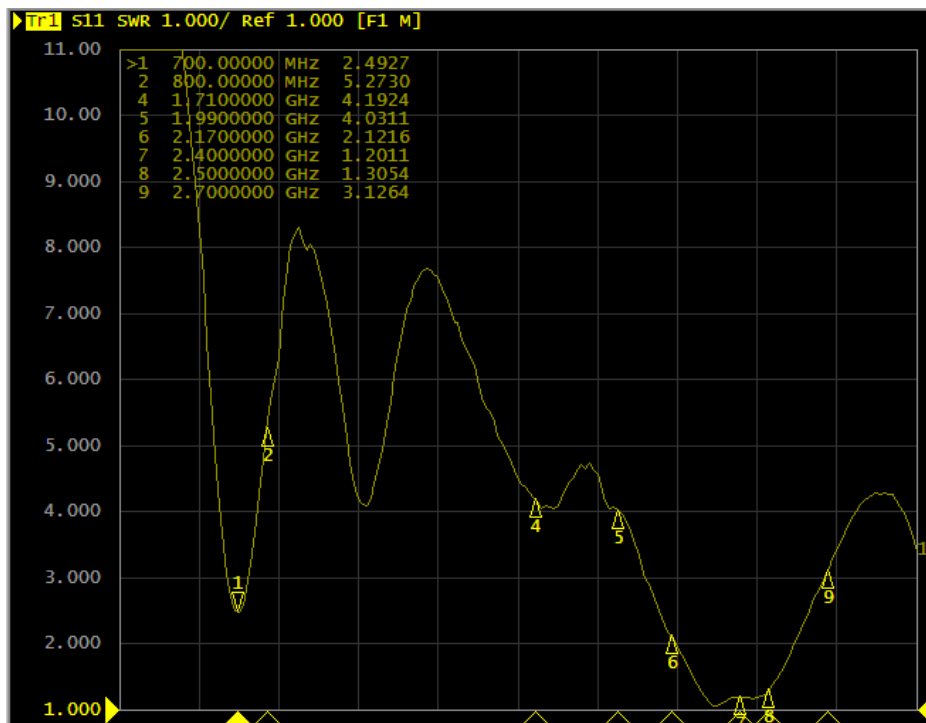


RF2:

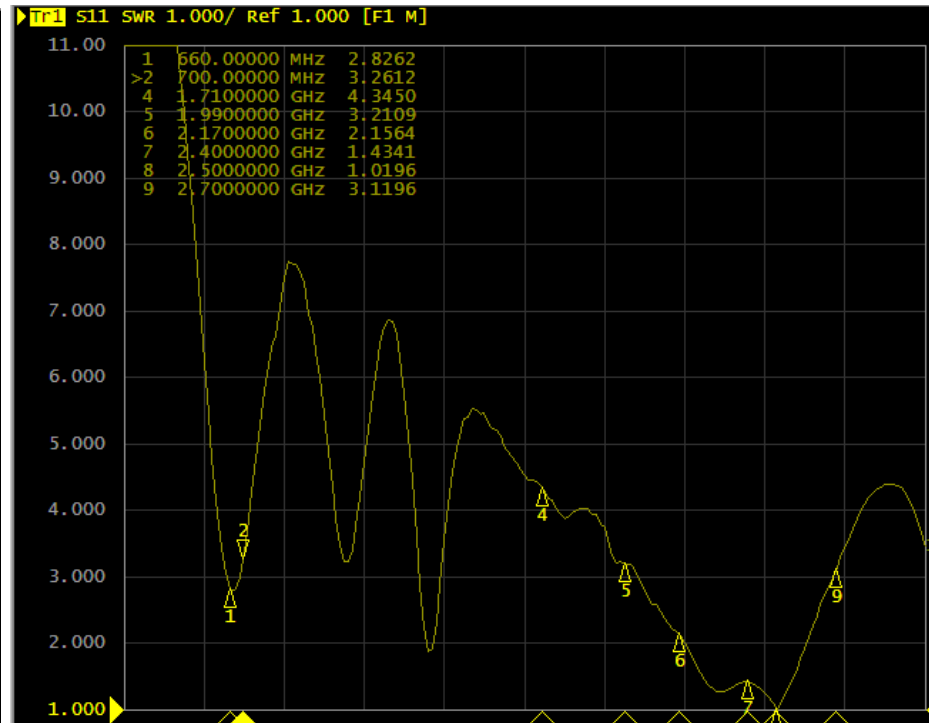


passive parameters of main
antenna

RF3:



RF4:



Passive Parameter of Main Antenna-RF1

Passive Test								Passive Test							
Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi
(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)
800.0	-9.94	-4.73	10.14	1820.0	-3.31	1.25	46.63	2120.0	-4.45	-1.59	35.9	2420.0	-2.32	1.56	58.61
810.0	-8.53	-3.13	14.04	1840.0	-2.68	1.82	54	2140.0	-4.28	-1.41	37.31	2440.0	-2.3	1.79	58.95
820.0	-7.15	-1.61	19.29	1860.0	-2.71	1.8	53.6	2160.0	-4.04	-1.22	39.48	2460.0	-2.57	1.62	55.33
830.0	-6.24	-0.61	23.75	1880.0	-2.79	1.75	52.65	2180.0	-3.79	-1.09	41.8	2480.0	-2.63	1.64	54.53
840.0	-5.91	-0.1	25.66	1900.0	-2.69	1.85	53.84	2200.0	-3.63	-0.6	43.4	2500.0	-2.86	1.42	51.81
850.0	-5.96	-0.03	25.38	1920.0	-2.7	1.74	53.66	2220.0	-3.53	-0.32	44.37	2520.0	-3.01	1.23	50.03
860.0	-6.39	-0.38	22.94	1940.0	-2.86	1.47	51.82	2240.0	-3.38	-0.07	45.9	2540.0	-3.01	1.1	49.96
870.0	-7.02	-0.91	19.84	1960.0	-3.23	0.93	47.57	2260.0	-3.3	0.02	46.82	2560.0	-3.18	0.85	48.12
880.0	-7.77	-1.65	16.71	1980.0	-3.98	0.42	40.03	2280.0	-3.11	0.21	48.9	2580.0	-3.35	0.69	46.22
1700.0	-4.72	-0.57	33.73	2000.0	-4.31	0.28	37.06	2300.0	-2.97	0.31	50.48	2600.0	-3.6	0.58	43.65
1720.0	-5.41	-1.19	28.77	2020.0	-4.56	0.03	34.98	2320.0	-2.85	0.38	51.93	2620.0	-3.82	0.39	41.51
1740.0	-5.45	-1.07	28.52	2040.0	-4.77	-0.36	33.37	2340.0	-2.63	0.67	54.58	2640.0	-3.96	0.23	40.14
1760.0	-4.65	-0.09	34.27	2060.0	-4.7	-0.69	33.87	2360.0	-2.55	0.8	55.54	2660.0	-4.16	-0.06	38.41
1780.0	-3.77	0.84	42.02	2080.0	-4.62	-1.06	34.51	2380.0	-2.42	1.1	57.23	2680.0	-4.36	-0.39	36.63
1800.0	-3.2	1.4	47.87	2100.0	-4.53	-1.41	35.28	2400.0	-2.37	1.35	57.91	2700.0	-4.41	-0.25	36.26

Passive Parameter of Main Antenna-RE2

Passive Test								Passive Test							
Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi
(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)
720.0	-11.12	-5.64	7.73	1820.0	-4.7	-0.36	33.92	2120.0	-4.05	-1.19	39.39	2420.0	-2.76	1.16	52.98
730.0	-10.25	-4.93	9.43	1840.0	-4.12	0.11	38.73	2140.0	-3.98	-1.07	40.03	2440.0	-2.64	1.12	54.47
740.0	-9.44	-4.24	11.38	1860.0	-4.24	-0.1	37.63	2160.0	-3.87	-0.91	41.05	2460.0	-2.83	0.8	52.11
750.0	-8.48	-3.29	14.19	1880.0	-4.4	-0.39	36.33	2180.0	-3.72	-0.61	42.47	2480.0	-2.81	0.7	52.41
760.0	-7.51	-2.36	17.74	1900.0	-4.39	-0.51	36.37	2200.0	-3.62	-0.41	43.42	2500.0	-2.96	0.46	50.62
770.0	-6.65	-1.51	21.63	1920.0	-4.46	-0.43	35.79	2220.0	-3.59	-0.37	43.74	2520.0	-3.04	0.26	49.67
780.0	-5.86	-0.69	25.92	1940.0	-4.61	-0.37	34.61	2240.0	-3.5	-0.25	44.65	2540.0	-2.98	0.38	50.38
790.0	-6.46	-1.22	22.59	1960.0	-4.8	-0.25	33.12	2260.0	-3.48	-0.28	44.89	2560.0	-3.09	0.46	49.14
800.0	-7.21	-1.8	19	1980.0	-5.18	-0.49	30.34	2280.0	-3.35	-0.02	46.27	2580.0	-3.21	0.33	47.75
1700.0	-4.58	-0.67	34.86	2000.0	-5.04	-0.44	31.36	2300.0	-3.28	0.07	46.96	2600.0	-3.41	0	45.64
1720.0	-5.39	-1.48	28.88	2020.0	-4.8	-0.39	33.08	2320.0	-3.24	0.09	47.44	2620.0	-3.57	0.05	43.94
1740.0	-5.81	-1.85	26.23	2040.0	-4.66	-0.59	34.19	2340.0	-3.09	0.43	49.1	2640.0	-3.66	0.24	43.08
1760.0	-5.61	-1.5	27.49	2060.0	-4.42	-0.81	36.16	2360.0	-3.06	0.61	49.39	2660.0	-3.79	0.29	41.8
1780.0	-5.02	-0.78	31.48	2080.0	-4.25	-1.11	37.58	2380.0	-2.95	0.82	50.71	2680.0	-3.95	0.13	40.28
1800.0	-4.54	-0.24	35.13	2100.0	-4.11	-1.38	38.85	2400.0	-2.86	1.01	51.73	2700.0	-3.92	0.11	40.53

Passive Parameter of Main Antenna-RE3

Passive Test								Passive Test							
Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi
(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)
700.0	-10.29	-5.4	9.36	1820.0	-8.59	-3.12	13.84	2120.0	-3.58	0.94	43.82	2420.0	-2.76	2.83	52.98
710.0	-9.8	-4.85	10.47	1840.0	-7.84	-2.13	16.45	2140.0	-3.45	1.06	45.22	2440.0	-2.76	2.71	52.96
720.0	-9.47	-4.46	11.31	1860.0	-7.62	-1.72	17.31	2160.0	-3.29	1.2	46.9	2460.0	-3	2.4	50.1
730.0	-9.39	-4.43	11.51	1880.0	-7.28	-1.31	18.71	2180.0	-3.12	1.33	48.71	2480.0	-2.99	2.28	50.25
740.0	-9.32	-4.43	11.7	1900.0	-6.68	-0.72	21.49	2200.0	-3.03	1.49	49.72	2500.0	-3.13	1.98	48.65
750.0	-9.07	-4.19	12.39	1920.0	-6.14	-0.31	24.32	2220.0	-2.99	1.69	50.2	2520.0	-3.2	1.82	47.82
760.0	-8.98	-4.19	12.63	1940.0	-5.76	-0.03	26.52	2240.0	-2.87	2.08	51.67	2540.0	-3.15	1.99	48.4
770.0	-8.84	-4.14	13.07	1960.0	-5.45	0.1	28.54	2260.0	-2.83	2.36	52.12	2560.0	-3.26	1.9	47.25
780.0	-8.73	-4.13	13.39	1980.0	-5.42	-0.05	28.71	2280.0	-2.65	2.84	54.34	2580.0	-3.42	1.65	45.45
1700.0	-9.27	-4.8	11.83	2000.0	-5.02	0.17	31.45	2300.0	-2.56	3.2	55.46	2600.0	-3.7	1.25	42.66
1720.0	-9.54	-5.34	11.11	2020.0	-4.7	0.34	33.92	2320.0	-2.58	3.27	55.18	2620.0	-3.94	1.2	40.35
1740.0	-9.47	-5.65	11.29	2040.0	-4.51	0.28	35.41	2340.0	-2.54	3.35	55.74	2640.0	-4.12	1.21	38.7
1760.0	-9.2	-4.86	12.02	2060.0	-4.2	0.54	38.05	2360.0	-2.62	3.25	54.73	2660.0	-4.35	1.15	36.71
1780.0	-8.81	-3.79	13.15	2080.0	-3.97	0.68	40.11	2380.0	-2.6	3.18	54.89	2680.0	-4.59	0.96	34.73
1800.0	-8.54	-3.18	14	2100.0	-3.73	0.81	42.4	2400.0	-2.7	3.02	53.7	2700.0	-4.64	0.97	34.33

Passive Parameter of Main Antenna-RF4

Passive Test								Passive Test							
Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi
(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)
620.0	-13.5	-8.49	4.47	1820.0	-7.86	-2.17	16.36	2120.0	-3.58	1.37	43.9	2420.0	-2.74	2.71	53.17
630.0	-12.62	-7.08	5.47	1840.0	-7.08	-1.41	19.58	2140.0	-3.48	1.38	44.83	2440.0	-2.76	2.5	52.92
640.0	-11.99	-6.01	6.32	1860.0	-6.84	-1.18	20.72	2160.0	-3.45	1.29	45.16	2460.0	-3.01	2.2	49.95
650.0	-11.48	-5.21	7.11	1880.0	-6.48	-0.84	22.49	2180.0	-3.36	1.2	46.09	2480.0	-3	2.13	50.09
660.0	-11.18	-4.69	7.63	1900.0	-5.87	-0.23	25.85	2200.0	-3.3	1.19	46.81	2500.0	-3.13	1.89	48.67
670.0	-10.83	-4.27	8.26	1920.0	-5.33	0.33	29.3	2220.0	-3.25	1.07	47.34	2520.0	-3.2	1.57	47.84
680.0	-10.57	-3.9	8.77	1940.0	-5	0.62	31.61	2240.0	-3.08	1.21	49.2	2540.0	-3.14	1.39	48.52
690.0	-10.33	-3.77	9.27	1960.0	-4.74	0.84	33.55	2260.0	-3.01	1.47	49.96	2560.0	-3.24	1.45	47.39
700.0	-10.03	-3.66	9.92	1980.0	-4.82	0.7	32.93	2280.0	-2.82	1.96	52.21	2580.0	-3.4	1.35	45.66
1700.0	-9.44	-5.66	11.36	2000.0	-4.51	0.91	35.39	2300.0	-2.71	2.29	53.52	2600.0	-3.66	1.24	43.04
1720.0	-9.53	-5.01	11.15	2020.0	-4.28	1.01	37.34	2320.0	-2.73	2.57	53.38	2620.0	-3.9	1.07	40.7
1740.0	-9.2	-4.05	12.03	2040.0	-4.19	0.95	38.13	2340.0	-2.66	2.8	54.19	2640.0	-4.03	1.01	39.5
1760.0	-8.67	-3.22	13.58	2060.0	-3.99	1.04	39.91	2360.0	-2.72	2.82	53.49	2660.0	-4.16	0.92	38.41
1780.0	-8.16	-2.66	15.28	2080.0	-3.84	1.07	41.35	2380.0	-2.67	2.83	54.02	2680.0	-4.28	0.89	37.31
1800.0	-7.84	-2.17	16.43	2100.0	-3.67	1.27	42.91	2400.0	-2.71	2.81	53.55	2700.0	-4.23	1.07	37.75

active parameters
of main antenna

	frequency range	CH	TRP (db)	TIS (dbm)		frequency range	CH	TRP (db)	TIS (dbm)
LTE	B1	CH (low)	20.53		LTE	B5	CH (low)	18.16	
		CH (centre)	19.83				CH (centre)	18.55	
		CH (Gao)	19.7	-96.6			CH (Gao)	18.2	-92.25
	B2	CH (low)	20.17			B7	CH (low)	20.18	
		CH (centre)	20.18				CH (centre)	19.71	
		CH (Gao)	20.1	-94.0			CH (Gao)	20.01	-93.69
	B3	CH (low)	18.36			B12	CH (low)	13.07	
		CH (centre)	17.84				CH (centre)	13.02	
		CH (Gao)	19.37	-94.77			CH (Gao)	13.01	-90.76
	B4	CH (low)	18.45			B13	CH (low)		
		CH (centre)	17.97				CH (centre)	16.45	-91.54
		CH (Gao)	18.33	-96.87			CH (Gao)		

active parameters
of main antenna

	frequency range	CH	TRP (db)	TIS (dbm)		frequency range	CH	TRP (db)	TIS (dbm)
LTE	B14	CH (low)			LTE	B20	CH (low)	19.02	
		CH (centre)	17.88	-91.08			CH (centre)	18.61	
		CH (Gao)					CH (Gao)	17.87	-91.16
	B17	CH (low)	14.1			B38	CH (low)	20.17	
		CH (centre)	13.93				CH (centre)	19.82	
		CH (Gao)	14.44	-91.7			CH (Gao)	19.82	-95.38
	B18	CH (low)	16.84			B40	CH (low)	21.25	
		CH (centre)	17.59				CH (centre)	20.88	
		CH (Gao)	18.19	-93.83			CH (Gao)	20.69	-92.38
	B19	CH (low)	18.33			B41	CH (low)		
		CH (centre)	18.22				CH (centre)	20.74	-97.46
		CH (Gao)	17.86	-95.03			CH (Gao)		

active parameters
of main antenna

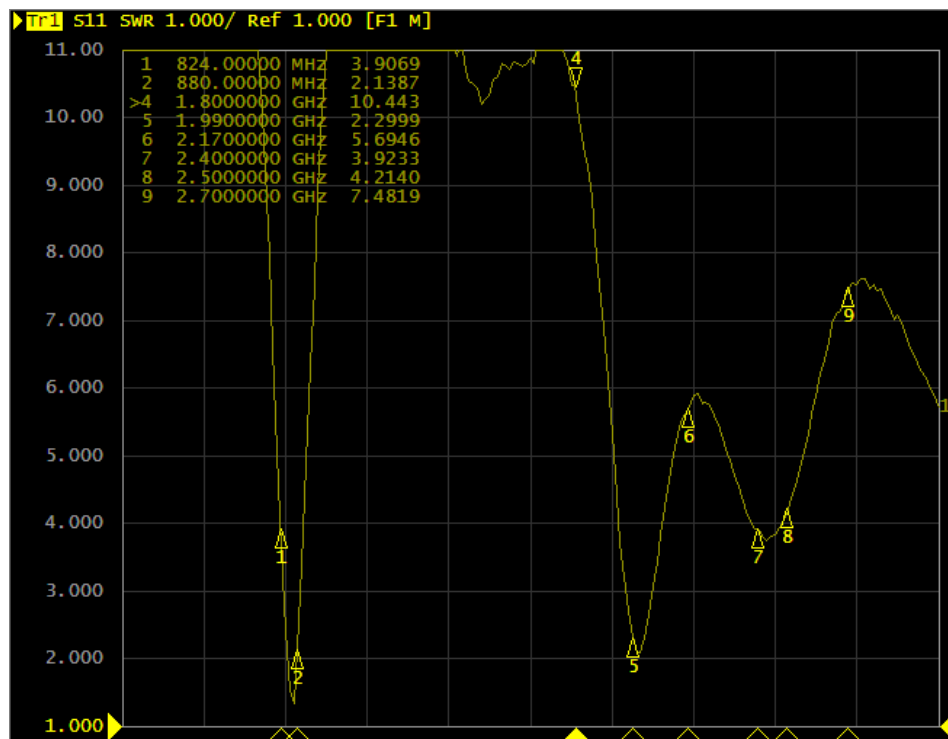
	frequency range	CH	TRP (db)	TIS (dbm)
LTE	B66	CH (low)	18.31	
		CH (centre)	18.09	
		CH (Gao)	19.17	-97.76
	B71	CH (low)	11.31	
		CH (centre)	12.56	
		CH (Gao)	13.35	-89.34

**divergent antenna
switch logic**

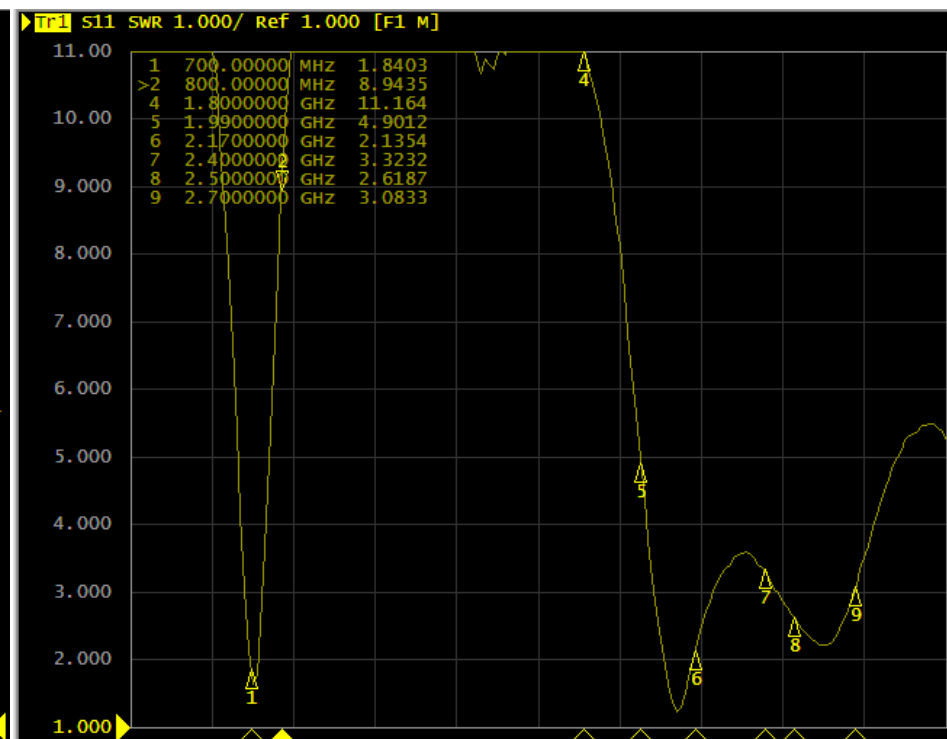
RF1 (0 Ω)	LTE-B2/3/5/18/19/20/25/26
RF2 (47 nH)	LTE-B12/13/14/17
RF3 (NC)	LTE-B1/4/7/38/40/41/66/ 71

passive parameter of
diversity antenna

RF1:

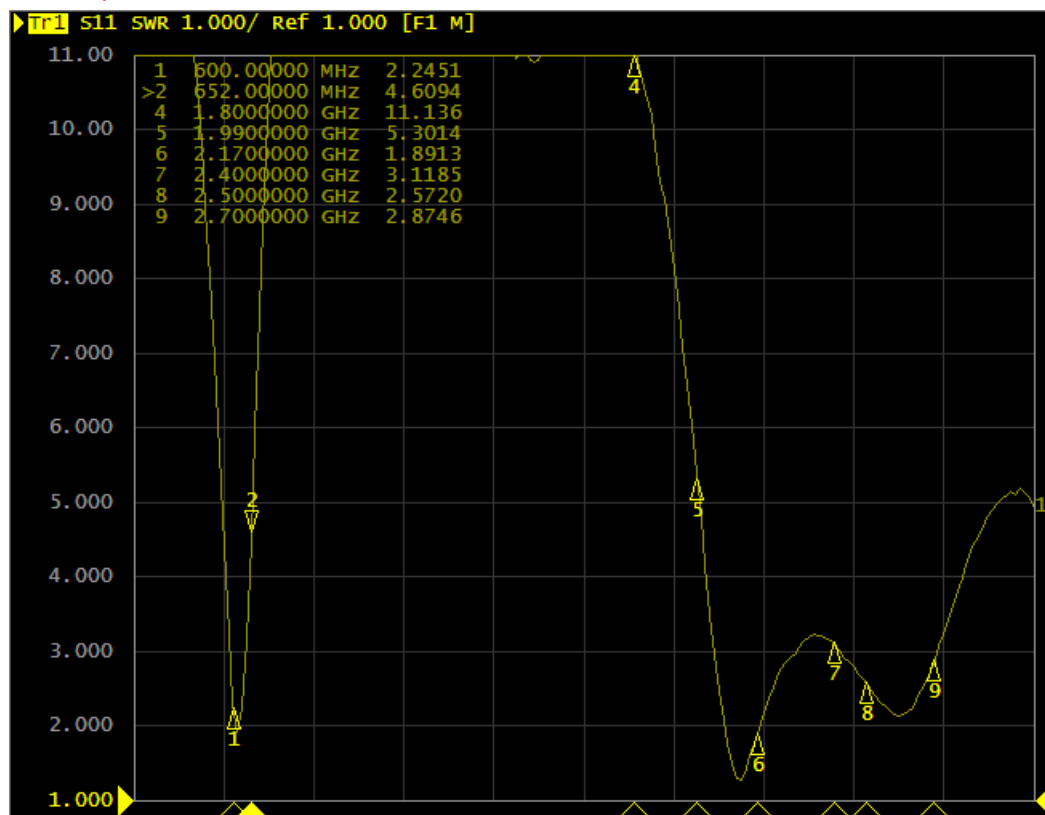


RF2:



passive parameter of
diversity antenna

RF3:



Passive Parameter of Diversified Antenna-RF1

Passive Test								Passive Test							
Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi
(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)
820.0	-14.21	-8.81	3.8	1820.0	-13.85	-8.52	4.12	2120.0	-11.42	-7.28	7.21	2420.0	-11.52	-6.48	7.05
830.0	-12.49	-7	5.64	1840.0	-12.94	-7.38	5.08	2140.0	-11.91	-7.47	6.45	2440.0	-11.38	-6.47	7.28
840.0	-10.76	-5.05	8.4	1860.0	-12.44	-6.77	5.7	2160.0	-12.32	-7.73	5.86	2460.0	-11.52	-6.77	7.05
850.0	-9.13	-3.3	12.21	1880.0	-11.75	-6.05	6.68	2180.0	-12.5	-7.9	5.63	2480.0	-11.5	-6.84	7.08
860.0	-7.83	-1.9	16.46	1900.0	-10.69	-5.09	8.53	2200.0	-12.62	-7.98	5.47	2500.0	-11.59	-6.98	6.93
870.0	-7.21	-1.24	19.03	1920.0	-9.64	-4.4	10.86	2220.0	-12.74	-8.08	5.32	2520.0	-11.76	-6.91	6.67
880.0	-7.26	-1.54	18.79	1940.0	-8.72	-3.83	13.44	2240.0	-12.82	-8.19	5.23	2540.0	-11.74	-6.67	6.7
890.0	-7.73	-2.7	16.86	1960.0	-7.83	-2.96	16.49	2260.0	-12.87	-8.25	5.17	2560.0	-11.9	-6.69	6.46
900.0	-9.54	-5.08	11.12	1980.0	-7.35	-2.69	18.41	2280.0	-12.68	-8.01	5.4	2580.0	--12.12	-6.92	6.13
1700.0	-16.08	-11.41	2.47	2000.0	-7.07	-2.12	19.64	2300.0	-12.55	-7.78	5.55	2600.0	-12.47	-7.36	5.66
1720.0	-15.88	-11.39	2.58	2020.0	-7.66	-2.81	17.15	2320.0	-12.41	-7.55	5.74	2620.0	-12.9	-7.97	5.13
1740.0	-15.43	-11.15	2.86	2040.0	-8.73	-4.42	13.38	2340.0	-12.15	-7.12	6.09	2640.0	-13.2	-8.42	4.78
1760.0	-14.86	-10.24	3.26	2060.0	-9.72	-6.5	10.67	2360.0	-11.95	-6.86	6.38	2660.0	-13.59	-8.7	4.38
1780.0	-14.34	-9.45	3.68	2080.0	-10.43	-7.16	9.06	2380.0	-11.74	-6.63	6.69	2680.0	-13.95	-9.08	4.02
1800.0	-13.94	-8.83	4.04	2100.0	-10.94	-7.15	8.05	2400.0	-11.64	-6.56	6.85	2700.0	-14.07	-9.18	3.92

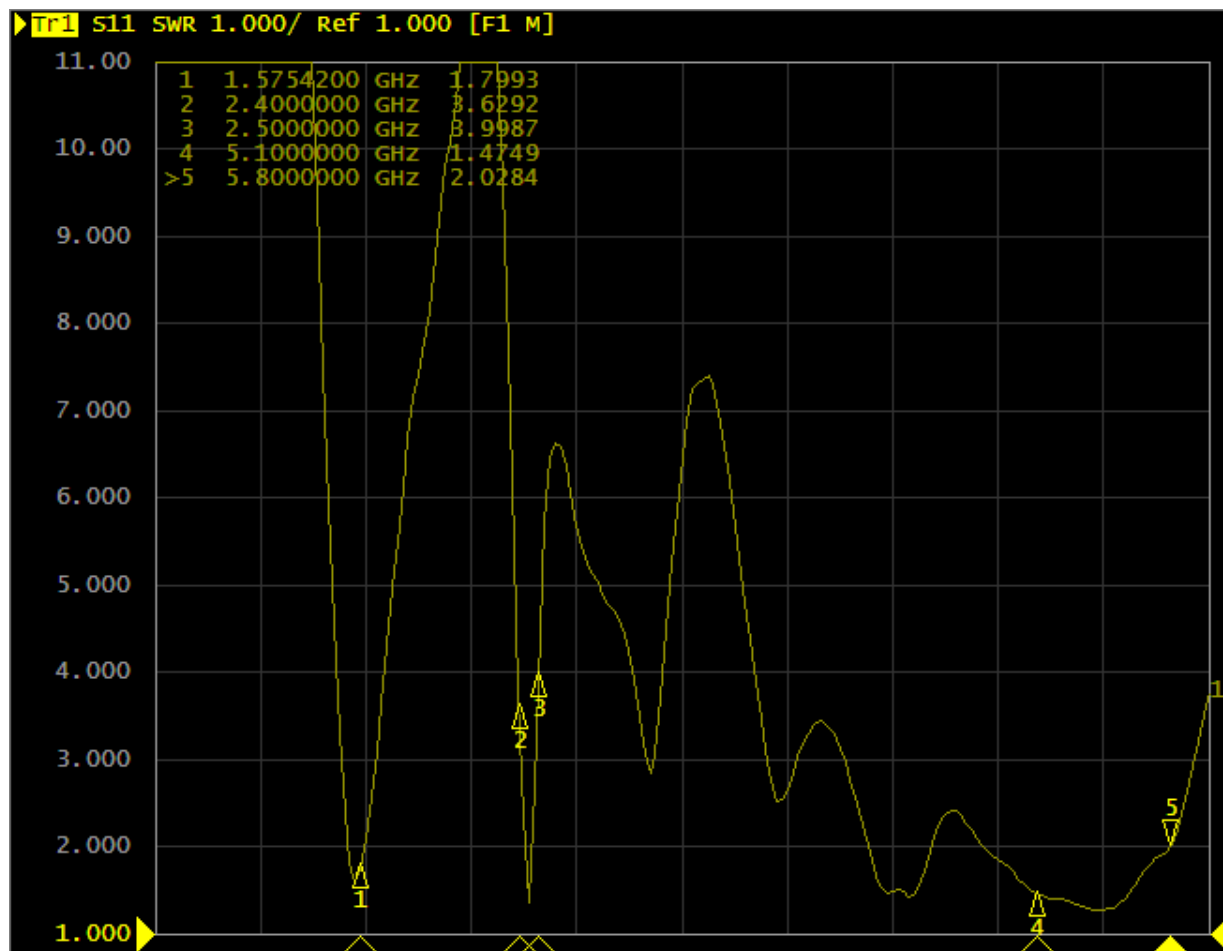
Passive Parameter of Diversified Antenna-RE2

Passive Test								Passive Test							
Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi
(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)
700.0	-14.35	-9.18	3.68	1820.0	-15.21	-11.07	3.01	2120.0	-6.85	-3.41	20.66	2420.0	-9.23	-5.33	11.93
710.0	-13.77	-8.86	4.2	1840.0	-14.43	-10.2	3.61	2140.0	-7.09	-3.27	19.55	2440.0	-9.03	-5.09	12.49
720.0	-13.4	-8.78	4.57	1860.0	-14.07	-9.61	3.92	2160.0	-7.56	-3.62	17.54	2460.0	-8.97	-4.94	12.68
730.0	-13.46	-8.8	4.51	1880.0	-13.56	-8.9	4.41	2180.0	-7.96	-3.85	15.99	2480.0	-8.72	-4.39	13.43
740.0	-13.63	-8.82	4.33	1900.0	-12.77	-8.05	5.28	2200.0	-8.38	-4.17	14.52	2500.0	-8.62	-4.27	13.74
750.0	-13.82	-8.87	4.15	1920.0	-12.05	-7.35	6.23	2220.0	-8.84	-4.64	13.06	2520.0	-8.47	-3.83	14.23
760.0	-14.15	-9.17	3.84	1940.0	-11.49	-6.6	7.09	2240.0	-9.29	-5.2	11.79	2540.0	-8.18	-3.4	15.2
770.0	-14.4	-9.39	3.63	1960.0	-10.95	-5.96	8.04	2260.0	-9.73	-5.96	10.63	2560.0	-8.07	-3.16	15.58
780.0	-14.6	-9.58	3.46	1980.0	-10.54	-5.58	8.82	2280.0	-9.8	-6.33	10.47	2580.0	-8.06	-3.01	15.64
1700.0	-17.12	-12.39	1.94	2000.0	-9.64	-4.81	10.86	2300.0	-9.92	-6.29	10.19	2600.0	-8.12	-2.92	15.42
1720.0	-16.96	-12.37	2.01	2020.0	-8.76	-4.17	13.31	2320.0	-10.06	-6.37	9.86	2620.0	-8.12	-2.73	15.43
1740.0	-16.53	-12.13	2.22	2040.0	-7.99	-3.49	15.89	2340.0	-9.98	-6.22	10.04	2640.0	-8.04	-2.57	15.69
1760.0	-15.98	-11.82	2.52	2060.0	-7.25	-3.08	18.82	2360.0	-9.82	-5.95	10.43	2660.0	-8.01	-2.55	15.81
1780.0	-15.51	-11.66	2.81	2080.0	-6.89	-3.35	20.45	2380.0	-9.52	-5.62	11.16	2680.0	-8.02	-2.34	15.76
1800.0	-15.2	-11.29	3.02	2100.0	-6.76	-3.86	21.09	2400.0	-9.41	-5.49	11.44	2700.0	-7.86	-1.9	16.37

Passive Parameter of Diversified Antenna-RE3

Passive Test								Passive Test							
Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi
(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)	(MHz)	(dBi)	(dBi)	(%)
600.0	-15.95	-12.19	2.54	1820.0	-16.59	-12.99	2.19	2120.0	-6.49	-2.15	22.46	2420.0	-8.54	-4.83	14.01
610.0	-15.56	-11.12	2.78	1840.0	-15.87	-12.29	2.59	2140.0	-6.52	-2.13	22.3	2440.0	-8.33	-4.41	14.69
620.0	-15.41	-10.63	2.88	1860.0	-15.63	-11.99	2.74	2160.0	-6.8	-2.44	20.88	2460.0	-8.24	-4.36	14.99
630.0	-15.63	-10.69	2.74	1880.0	-15.2	-11.35	3.02	2180.0	-6.98	-2.8	20.05	2480.0	-7.97	-4.01	15.96
640.0	-16.01	-11.03	2.5	1900.0	-14.51	-10.23	3.54	2200.0	-7.18	-3.06	19.13	2500.0	-7.89	-4.19	16.27
650.0	-16.58	-11.63	2.2	1920.0	-13.84	-9.06	4.13	2220.0	-7.49	-3.45	17.82	2520.0	-7.72	-3.73	16.92
660.0	-17.15	-12.22	1.93	1940.0	-13.33	-8.18	4.64	2240.0	-7.85	-3.78	16.4	2540.0	-7.47	-3.33	17.91
670.0	-17.66	-12.72	1.72	1960.0	-12.75	-7.44	5.31	2260.0	-8.34	-4.27	14.66	2560.0	-7.43	-3.15	18.09
680.0	-18.15	-13.06	1.53	1980.0	-12.18	-6.81	6.05	2280.0	-8.57	-4.16	13.91	2580.0	-7.46	-3.11	17.95
1700.0	-17.94	-14.13	1.61	2000.0	-10.99	-5.49	7.96	2300.0	-8.9	-4.13	12.88	2600.0	-7.59	-3.2	17.43
1720.0	-17.88	-13.95	1.63	2020.0	-9.72	-3.84	10.67	2320.0	-9.21	-4.35	12.01	2620.0	-7.65	-3.29	17.2
1740.0	-17.55	-13.52	1.76	2040.0	-8.57	-2.56	13.89	2340.0	-9.23	-4.5	11.93	2640.0	-7.61	-3.24	17.34
1760.0	-17.12	-13.01	1.94	2060.0	-7.55	-2.03	17.57	2360.0	-9.13	-4.67	12.22	2660.0	-7.58	-2.98	17.45
1780.0	-16.72	-12.66	2.13	2080.0	-7	-2.73	19.94	2380.0	-8.85	-4.8	13.04	2680.0	-7.57	-2.82	17.49
1800.0	-16.53	-12.85	2.22	2100.0	-6.65	-2.55	21.63	2400.0	-8.73	-4.98	13.39	2700.0	-7.39	-2.48	18.25

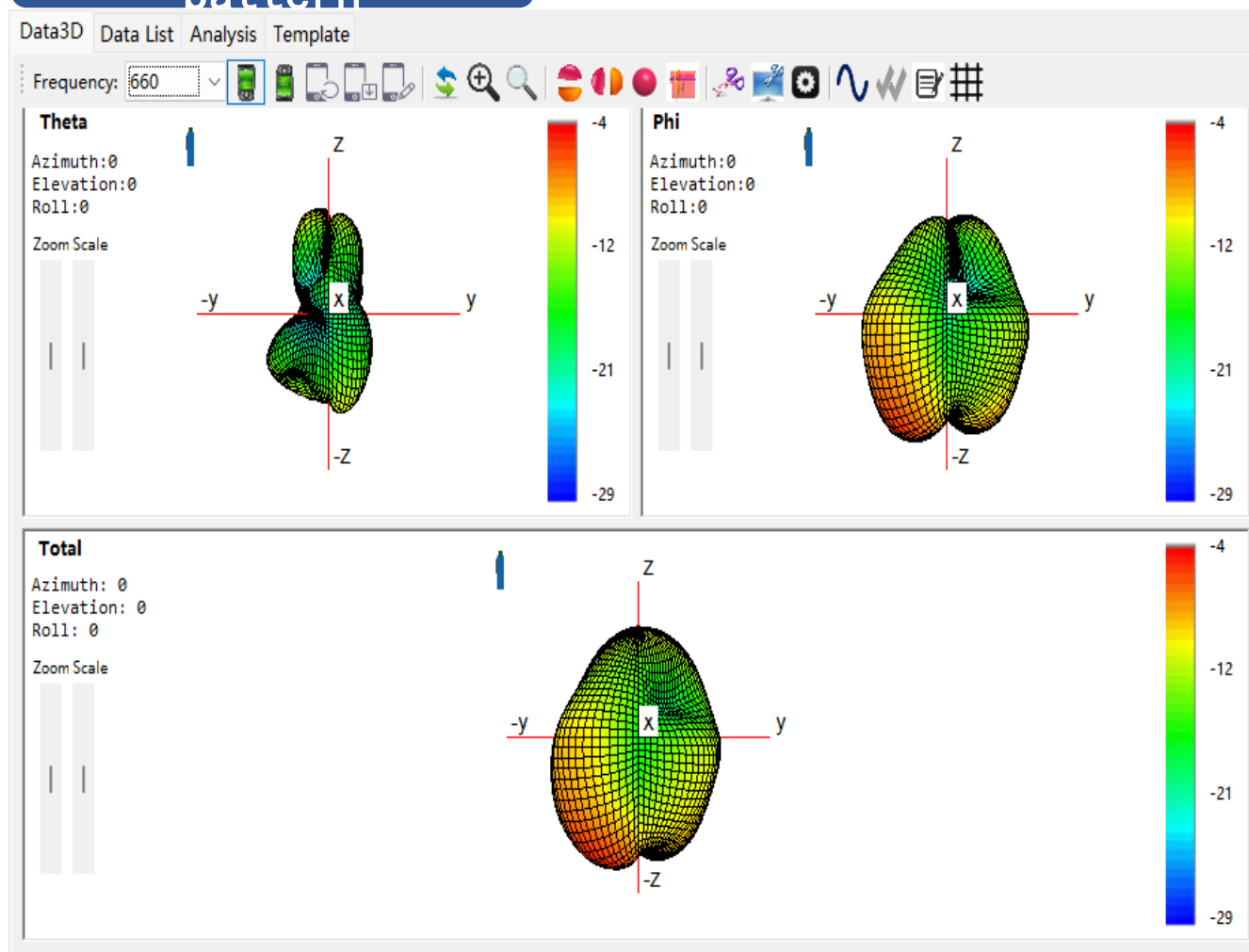
Passive parameters of a
four-element antenna



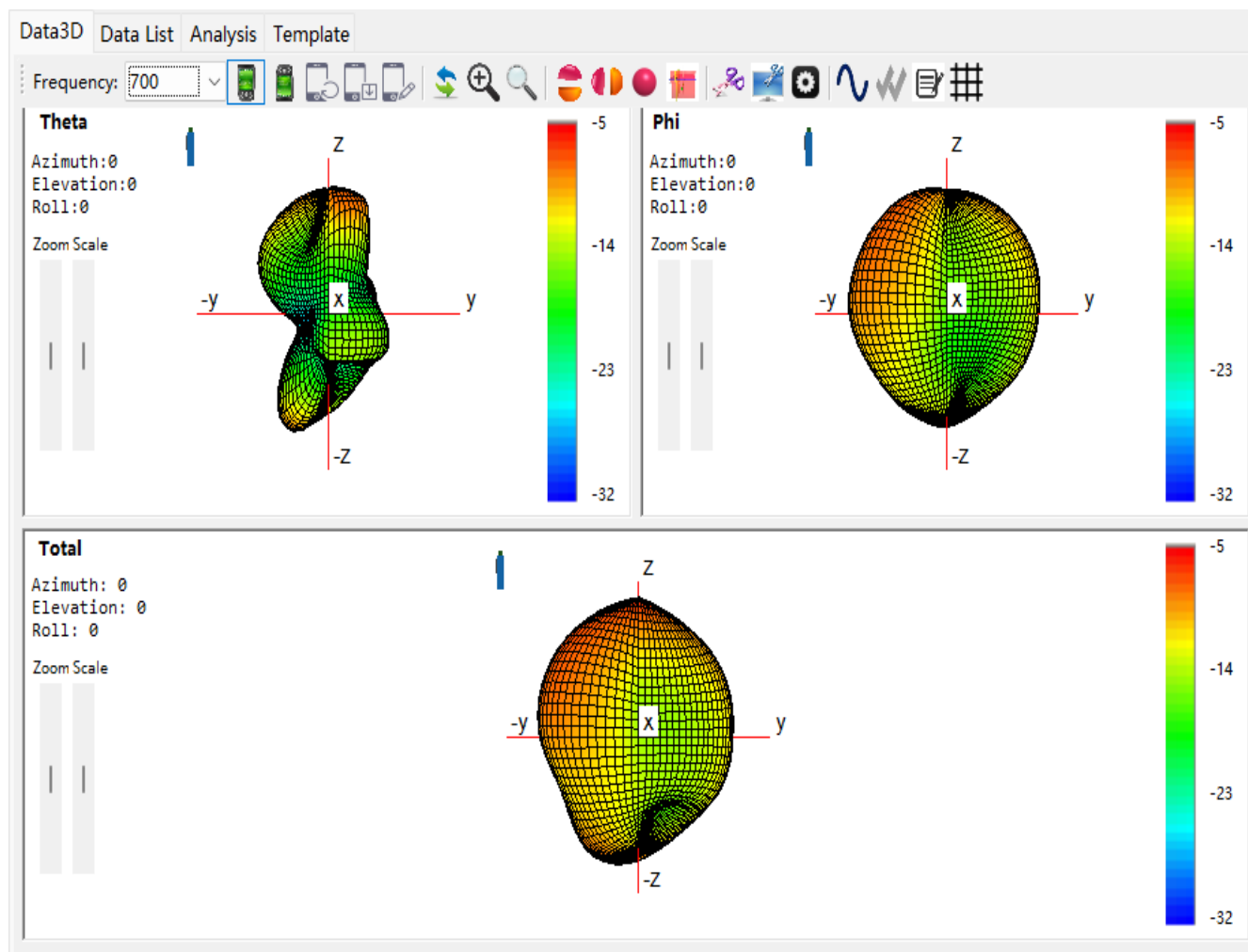
Passive parameters of a four-element antenna

Passive Test					
Freq	Effi	Gain	Freq	Effi	Gain
(MHz)	(%)	(dBi)	(MHz)	(%)	(dBi)
1560.0	30.1%	-1.42	5100.0	30.2%	-0.24
1565.0	30.7%	-1.35	5150.0	32.5%	0.05
1570.0	31.4%	-1.41	5200.0	34.3%	0.39
1575.0	32.1%	-1.53	5250.0	36.6%	0.61
1580.0	31.2%	-1.60	5300.0	37.9%	0.84
1585.0	30.6%	-1.81	5350.0	39.4%	1.02
1590.0	30.2%	-1.89	5400.0	40.2%	1.19
			5450.0	40.8%	1.10
			5500.0	39.6%	0.95
2400.0	25.3%	-2.42	5550.0	38.9%	0.73
2420.0	30.1%	-2.19	5600.0	36.5%	0.48
2440.0	33.5%	-1.86	5650.0	35.4%	0.19
2460.0	32.4%	-2.04	5700.0	34.6%	-0.35
2480.0	29.6%	-2.35	5750.0	32.8%	-0.51
2500.0	26.2%	-2.56	5800.0	31.0%	-0.64

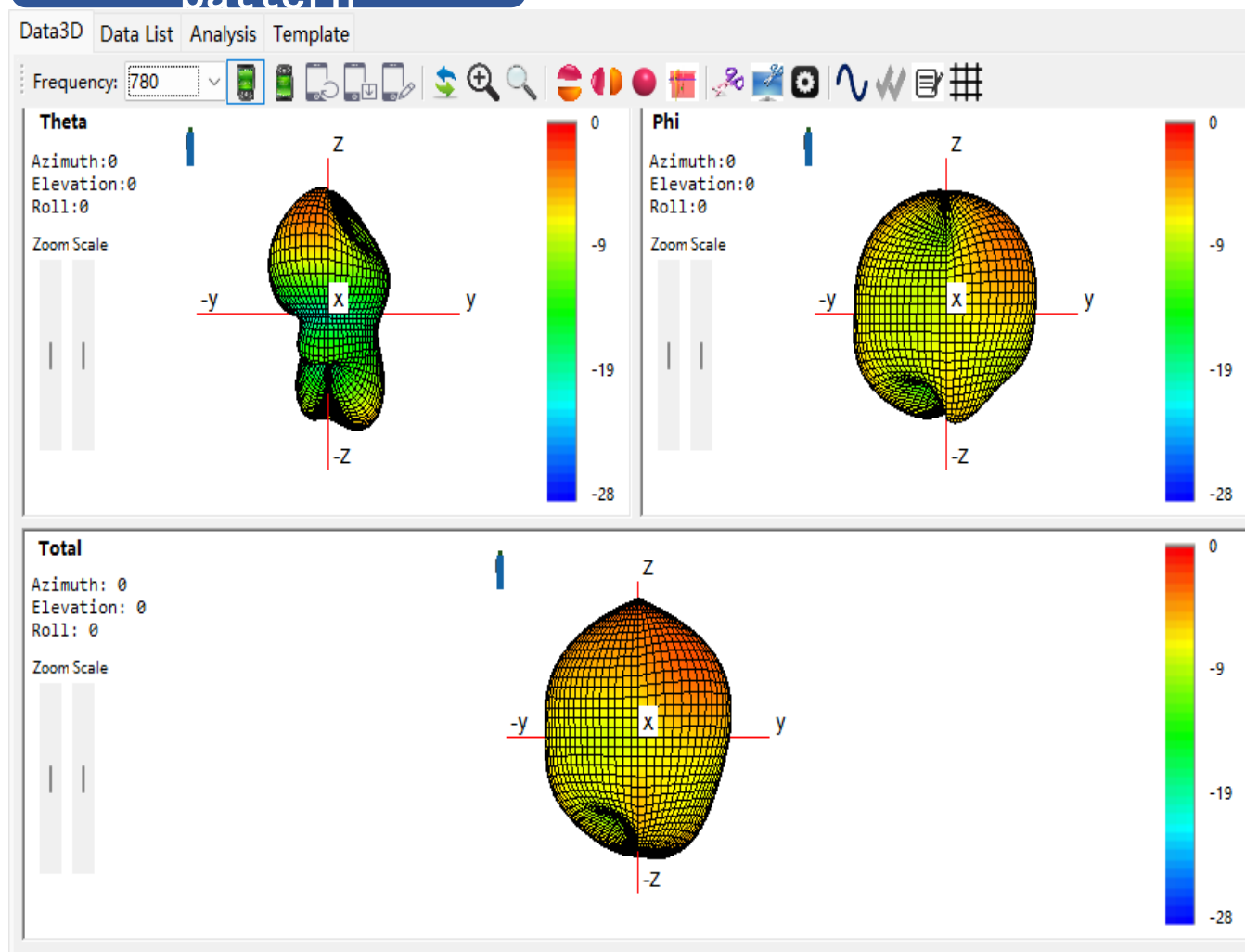
main antenna pattern



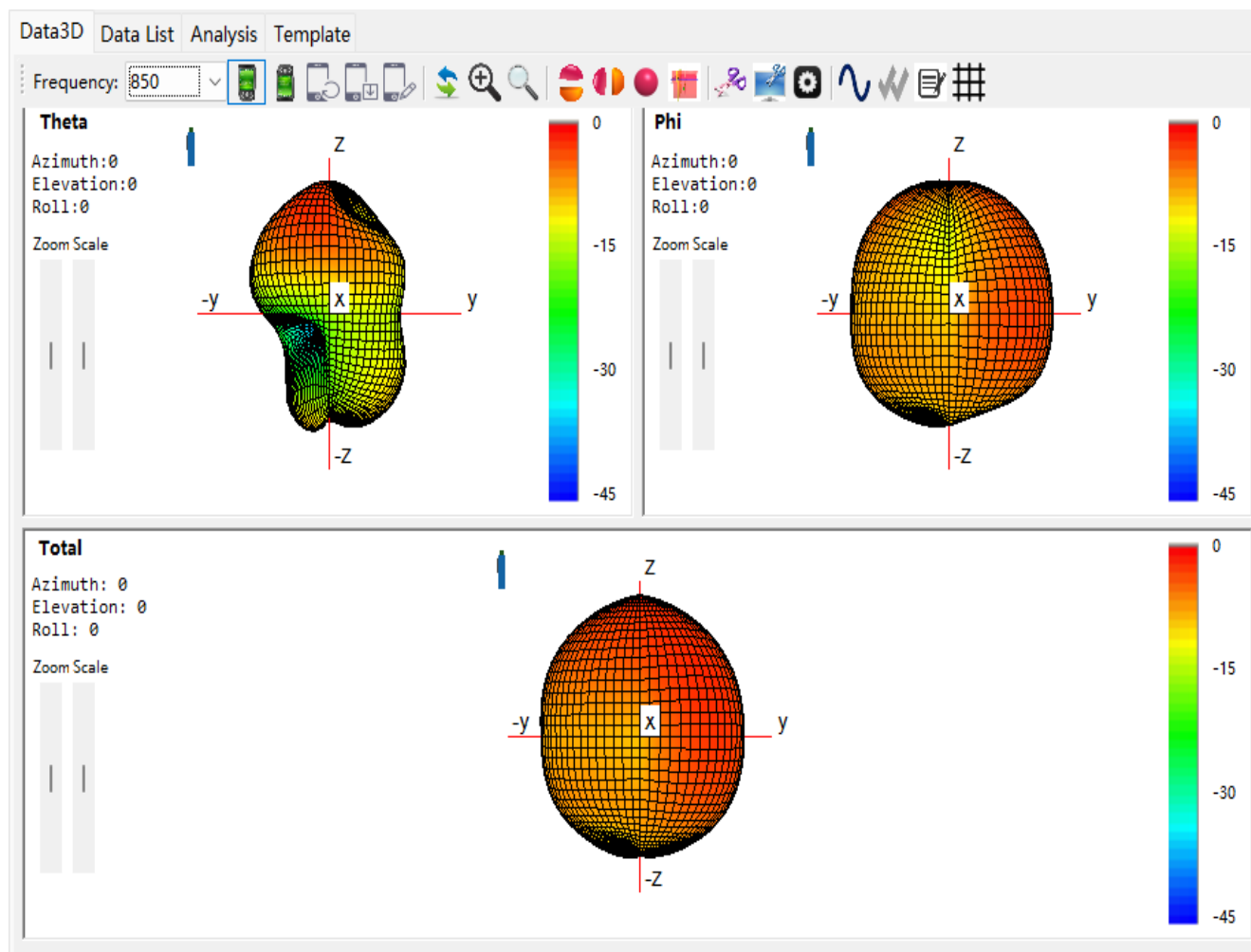
main antenna pattern



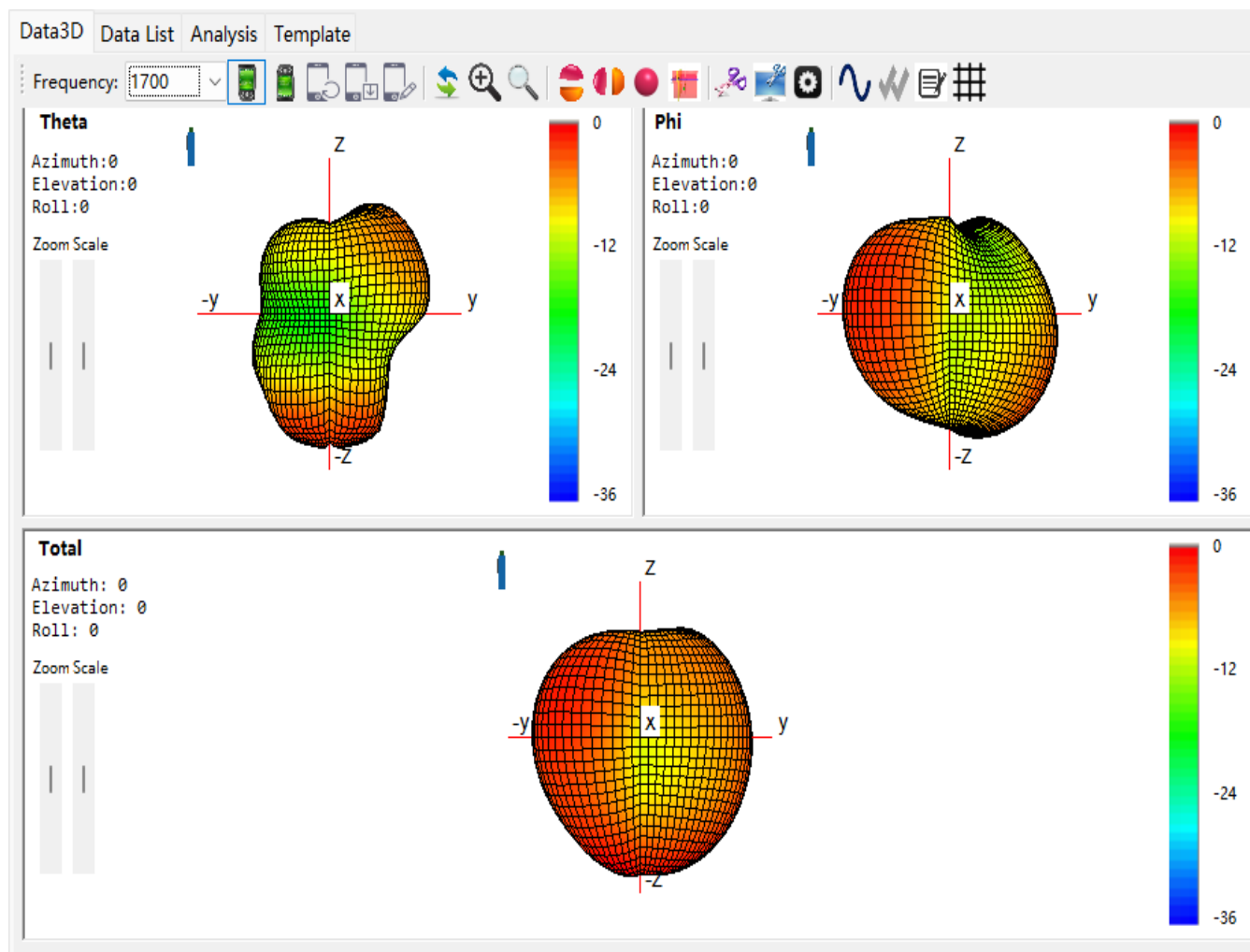
main antenna pattern



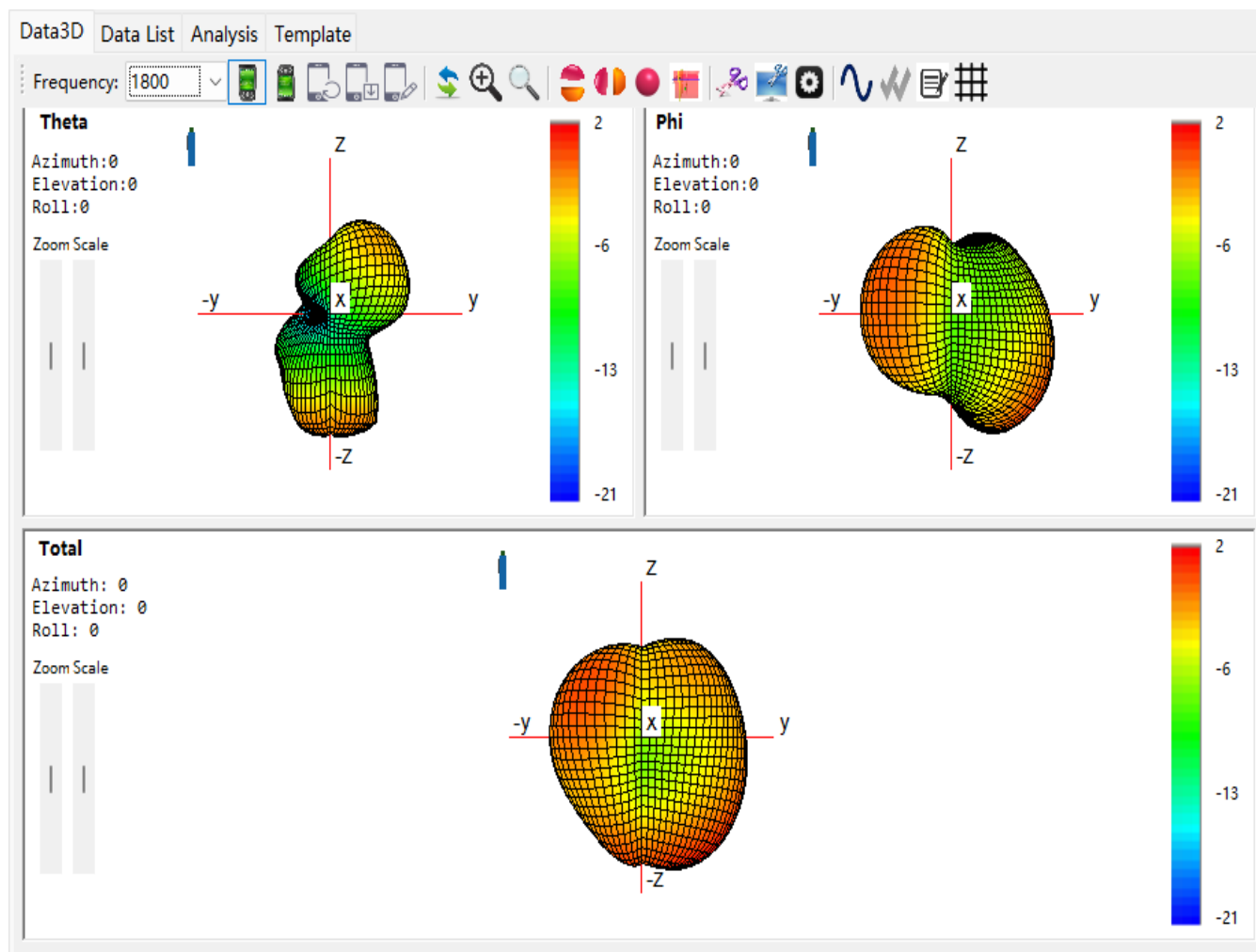
main antenna pattern



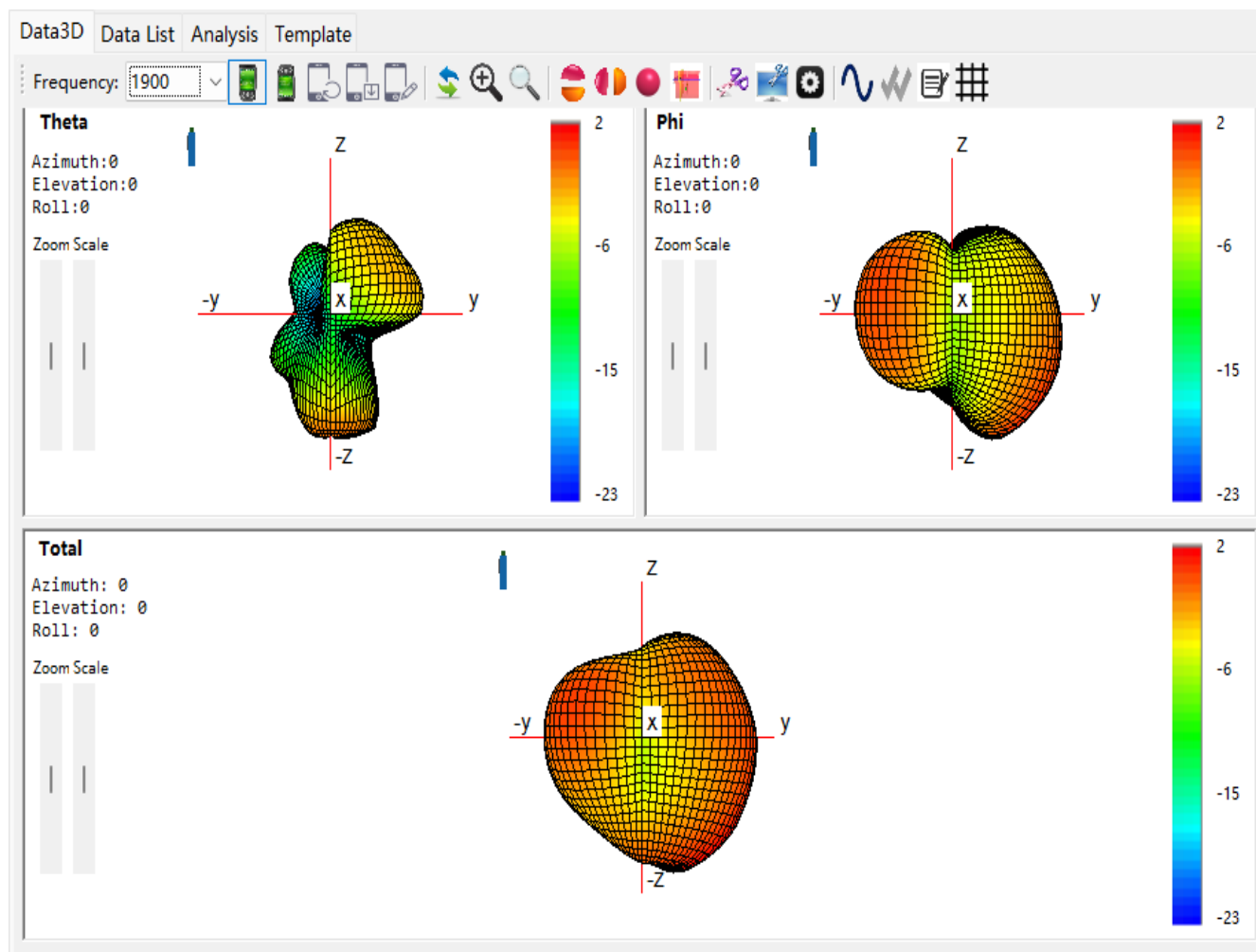
main antenna pattern



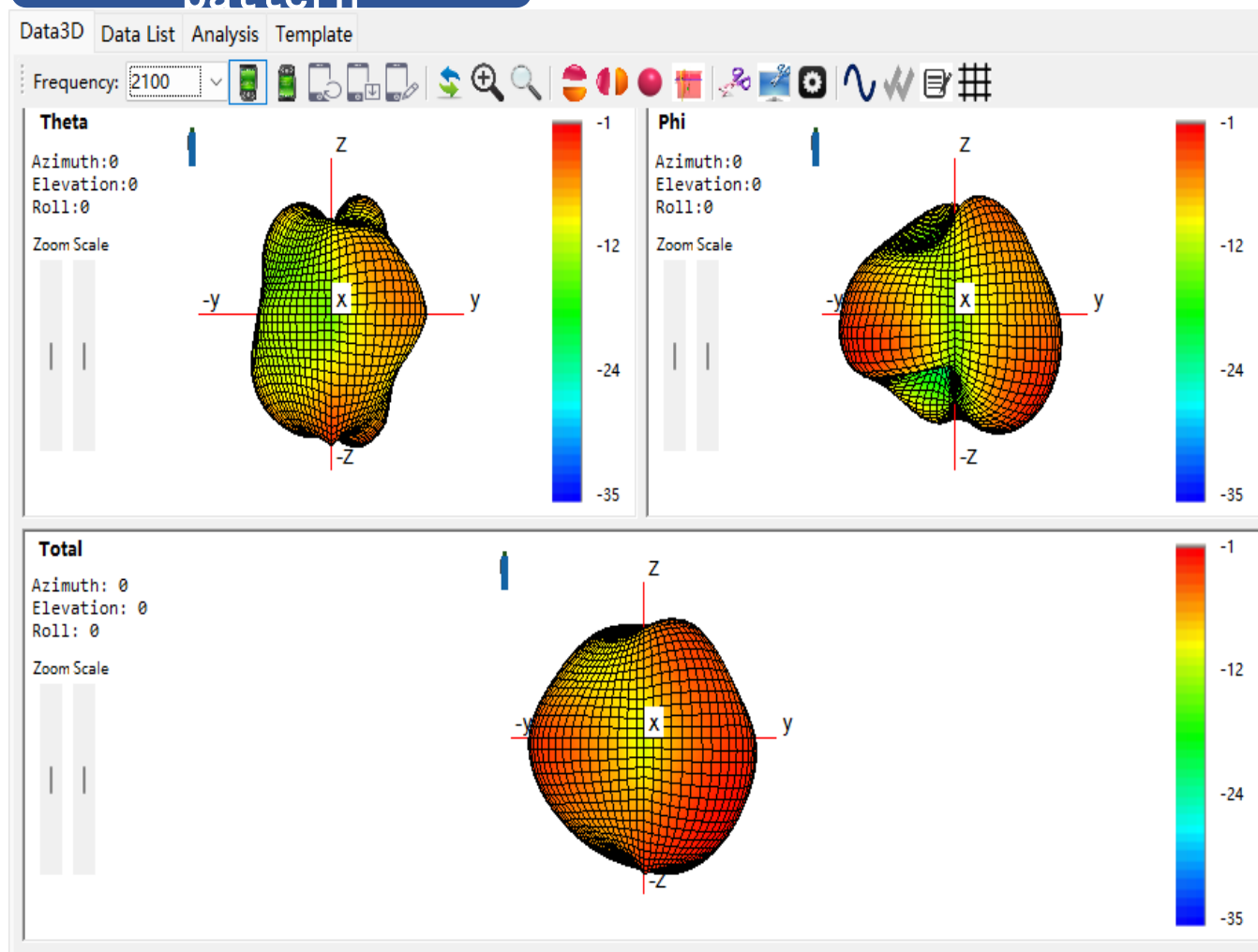
main antenna pattern



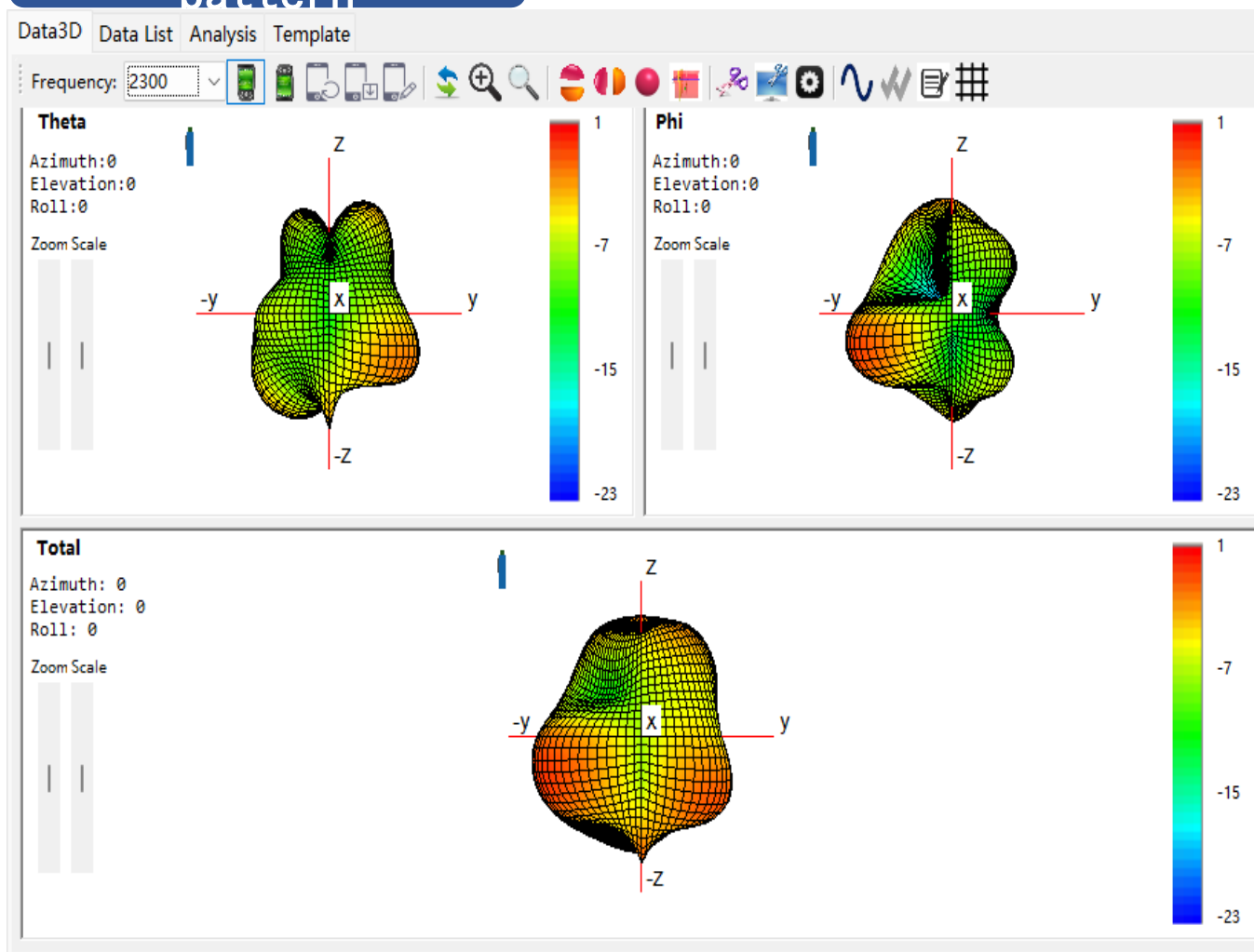
main antenna pattern



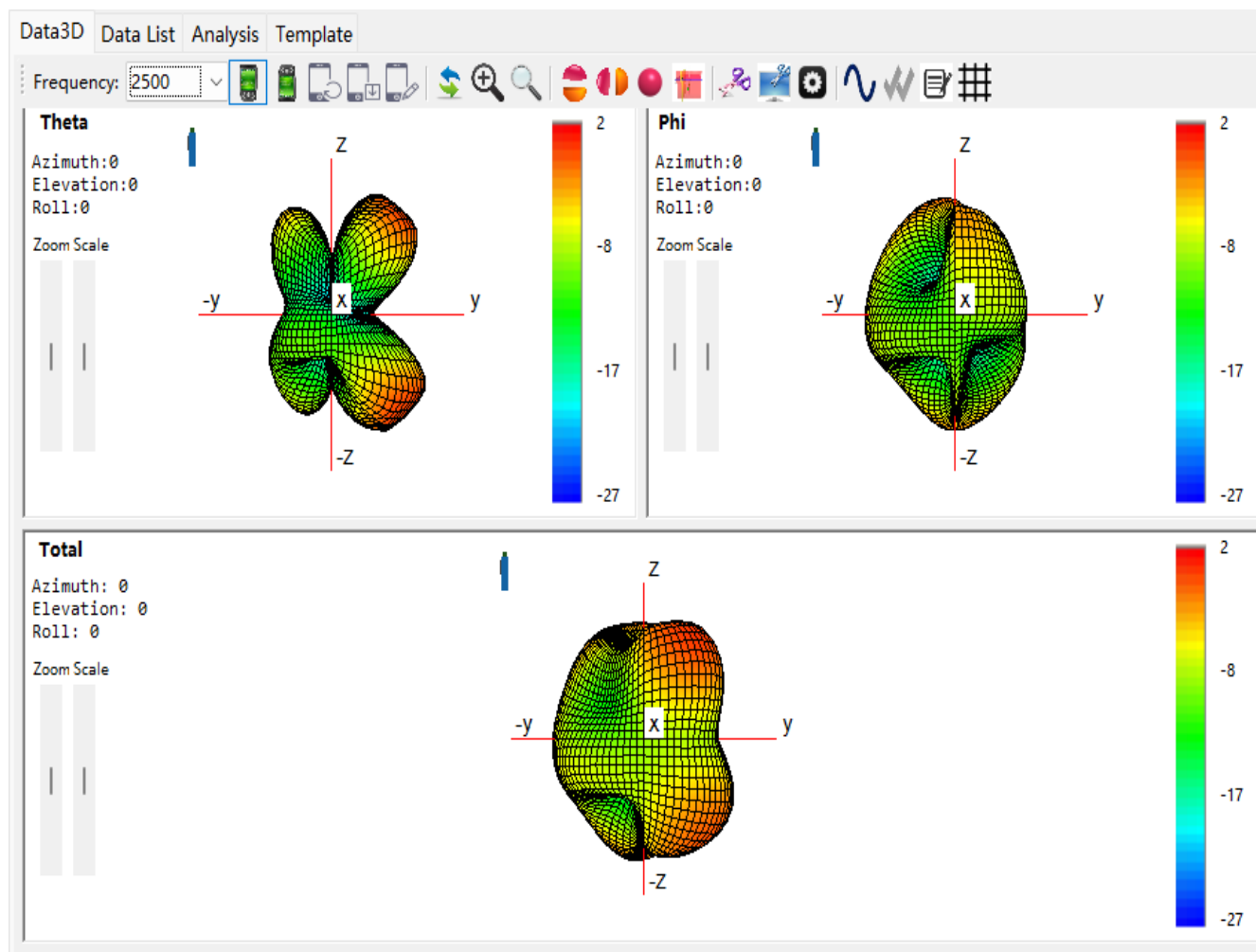
main antenna pattern



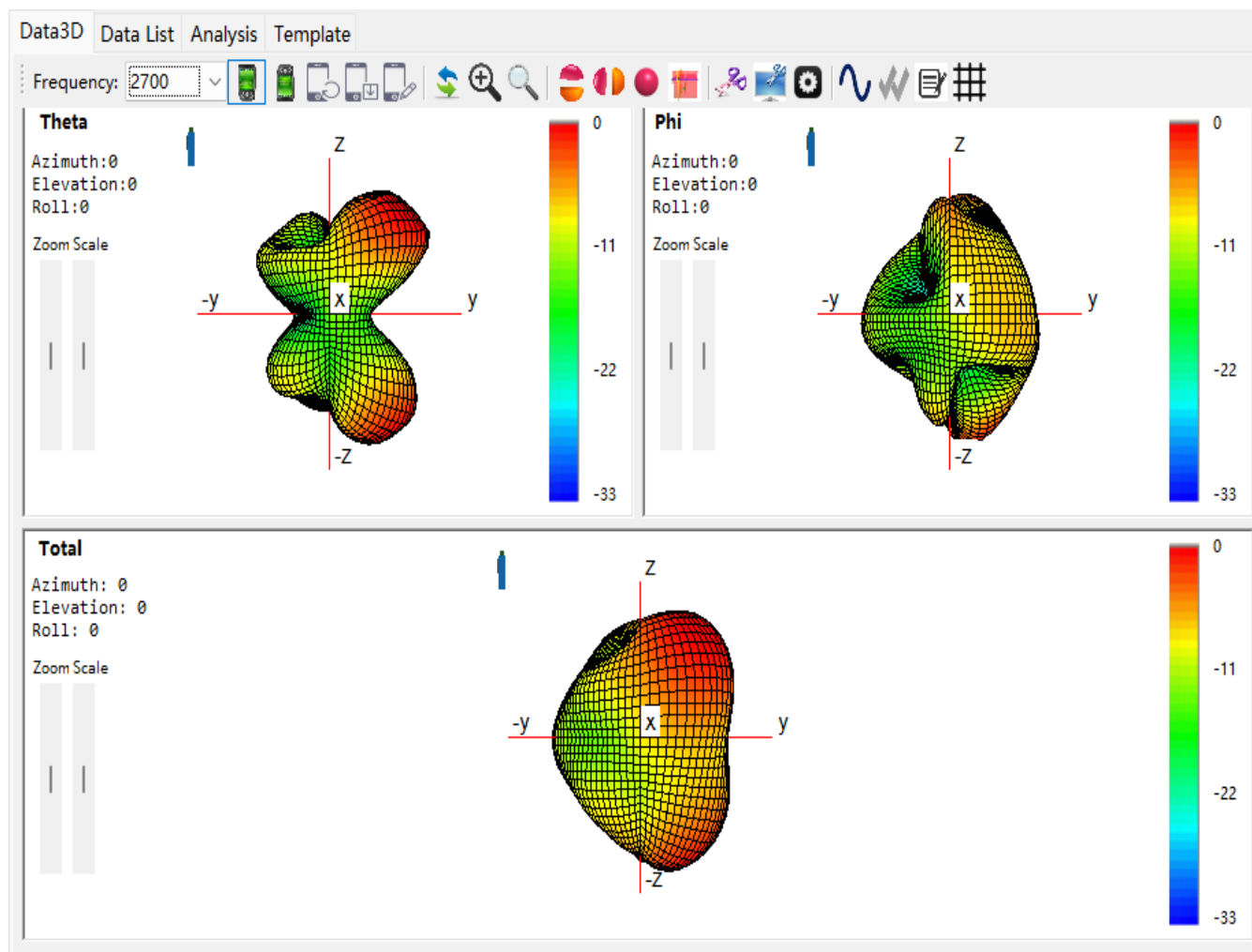
main antenna pattern



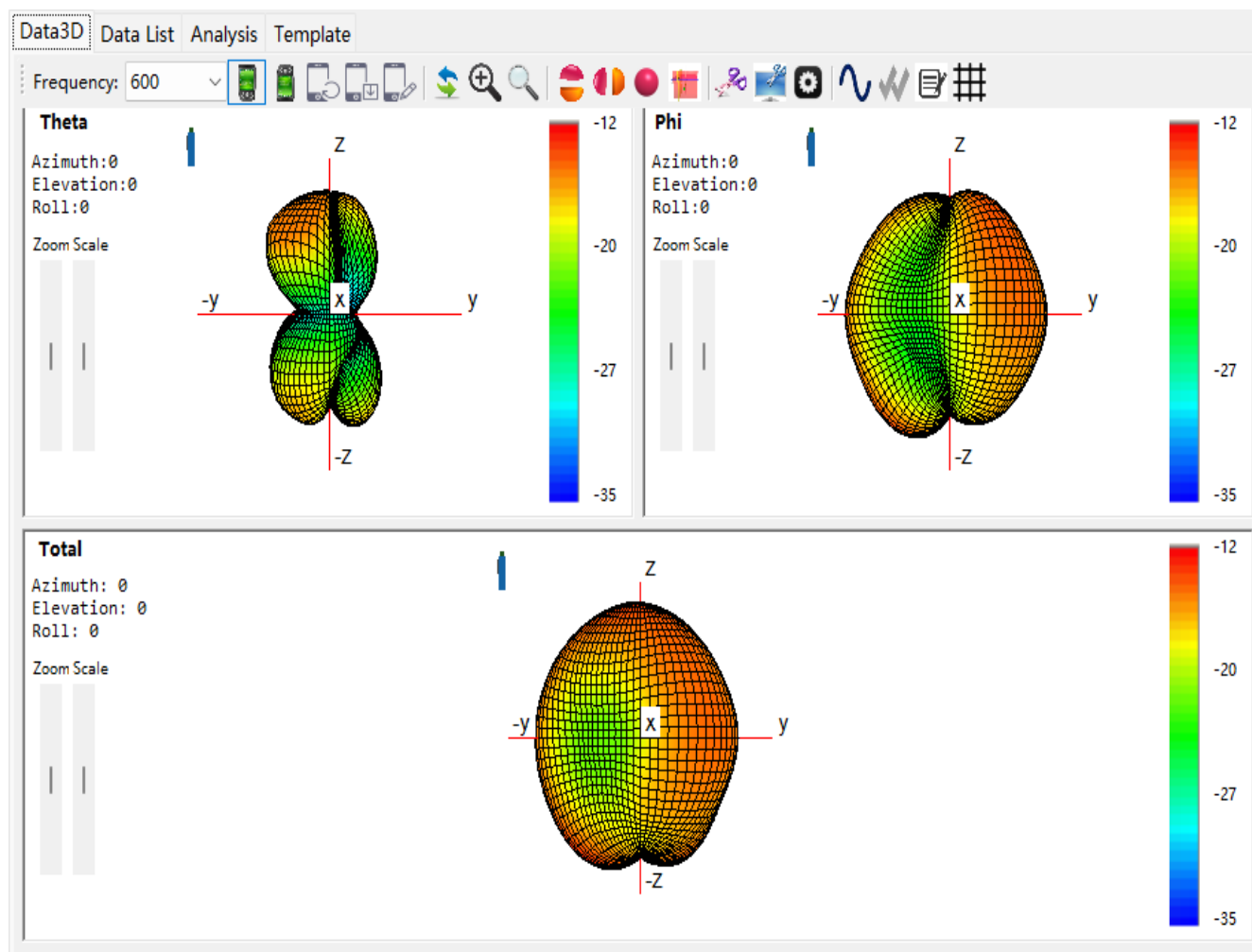
main antenna pattern



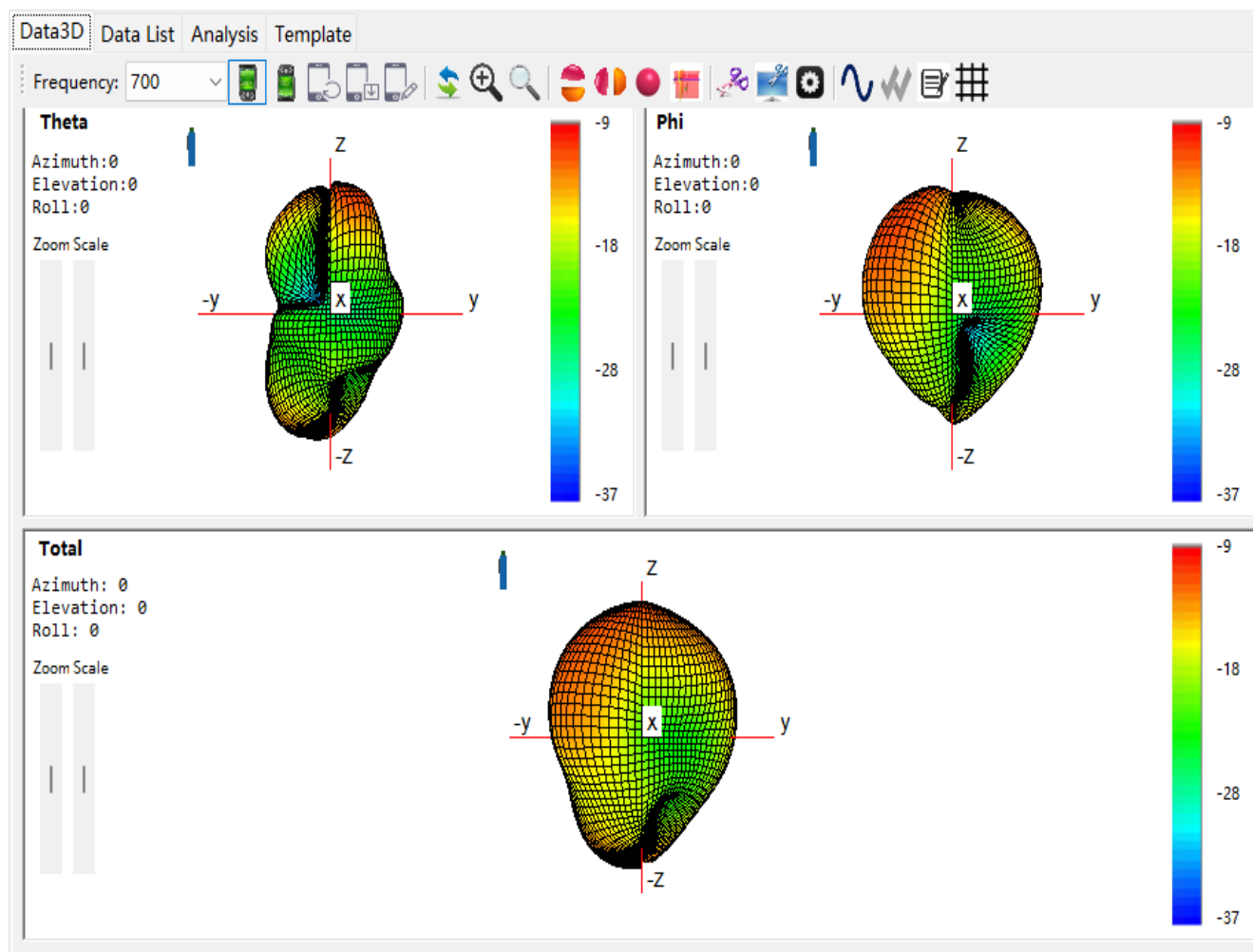
main antenna pattern



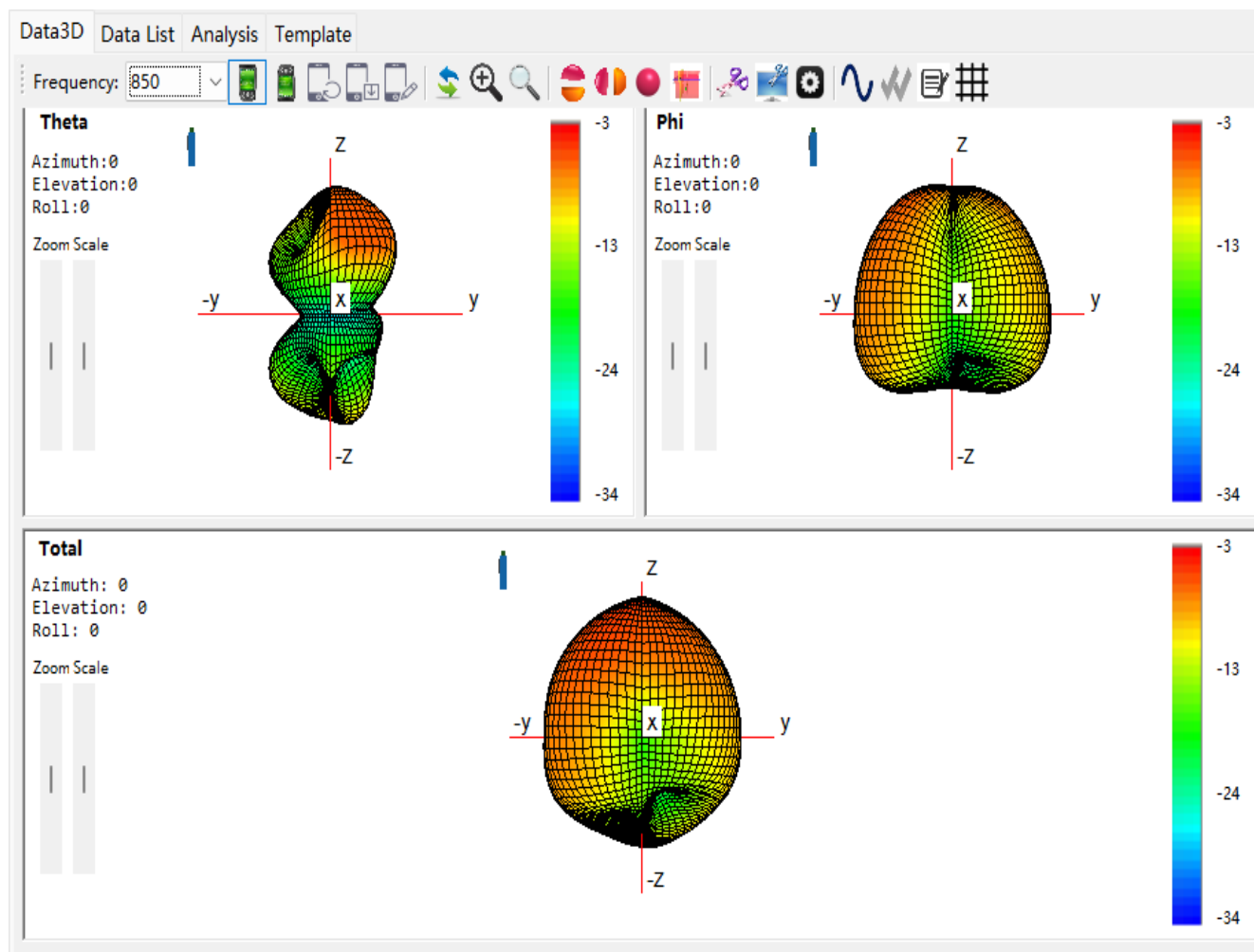
divergent antenna pattern



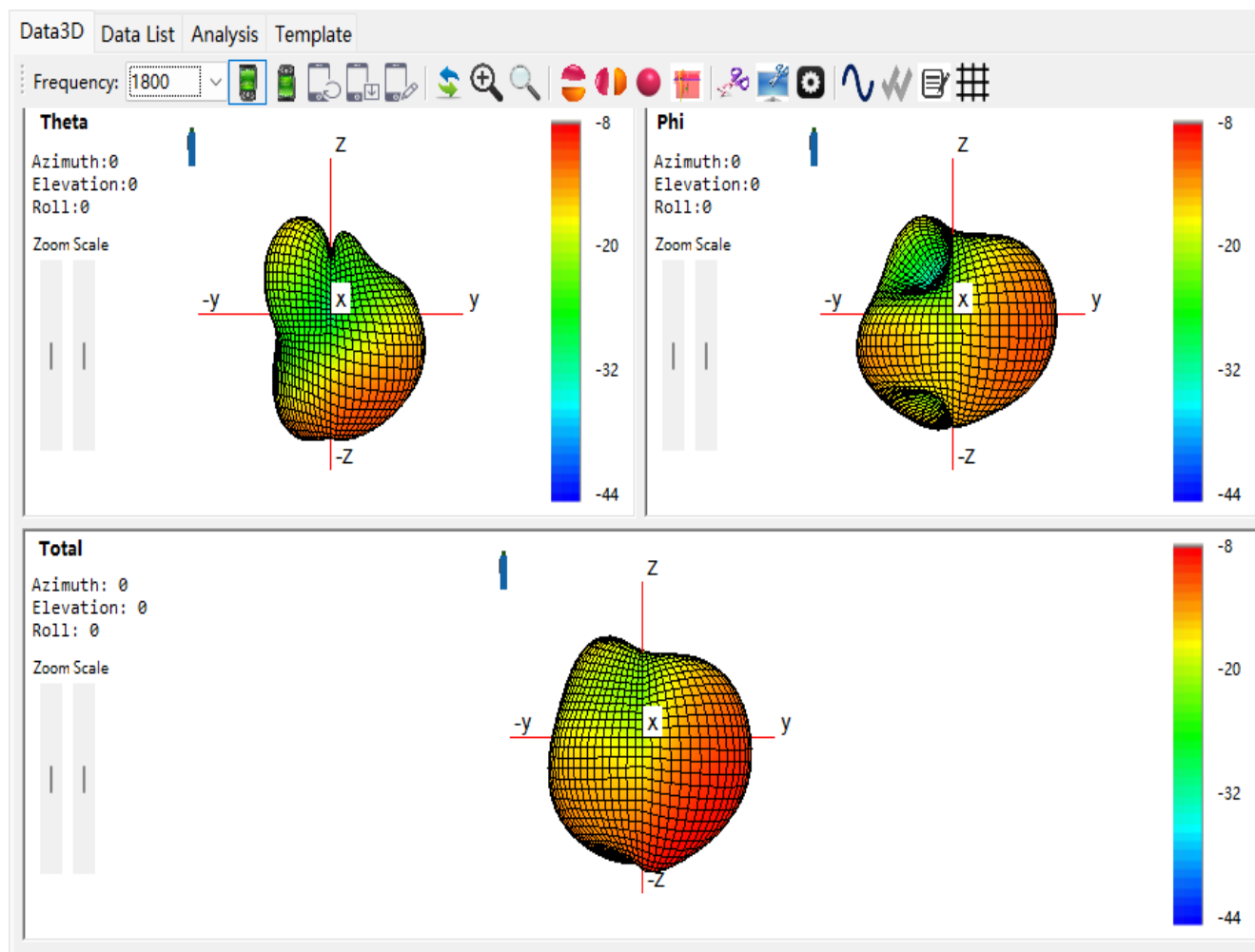
divergent antenna pattern



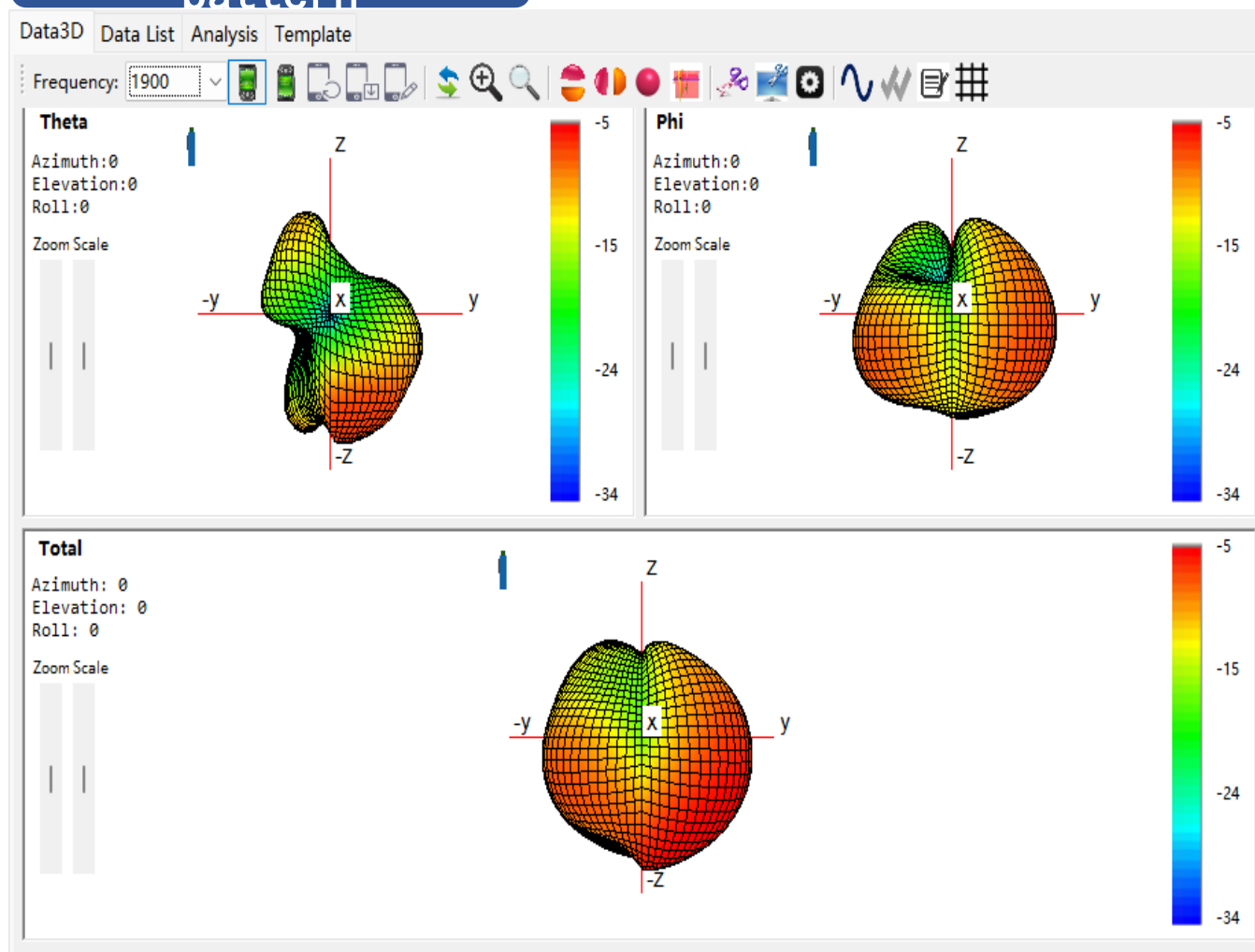
divergent antenna pattern



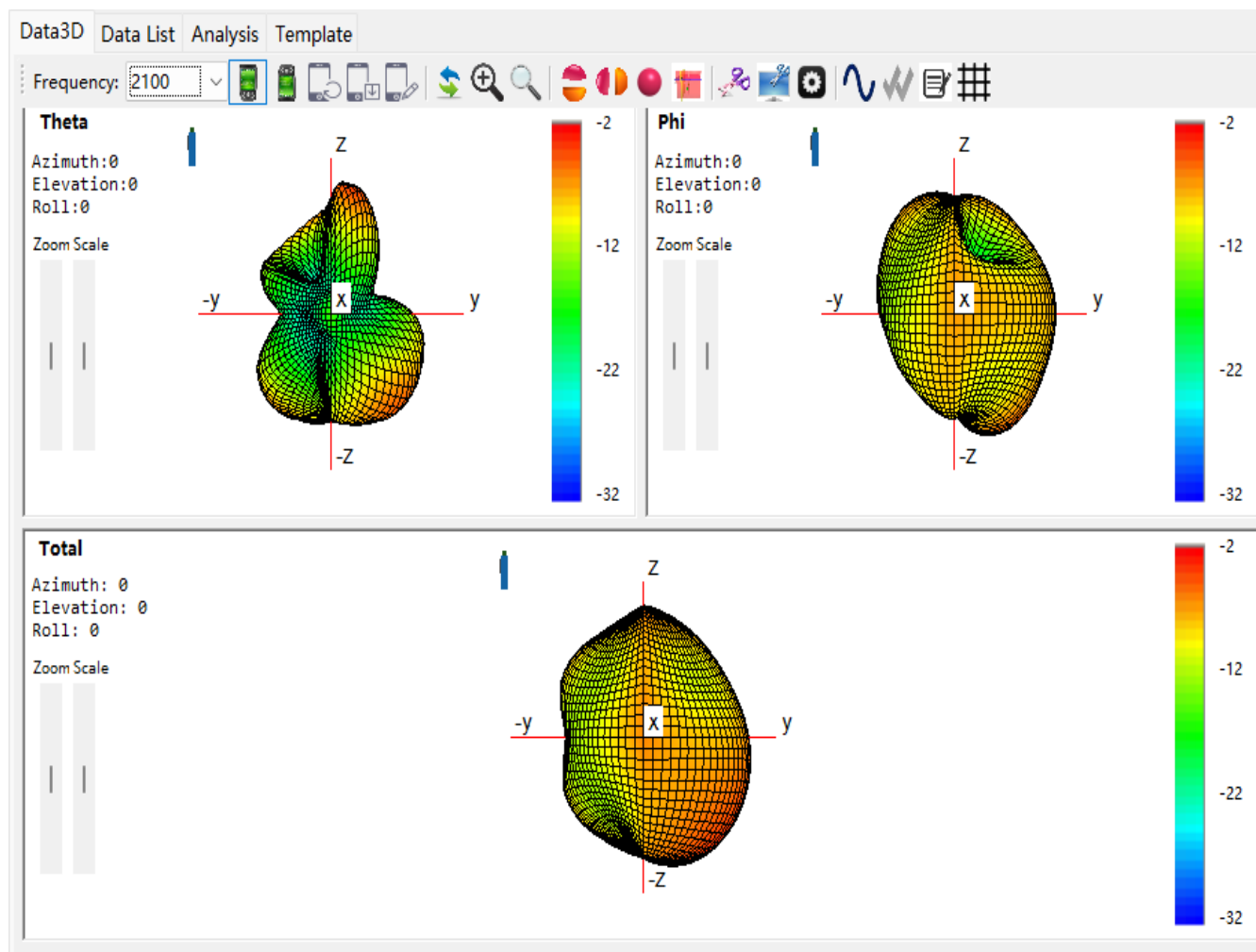
divergent antenna pattern



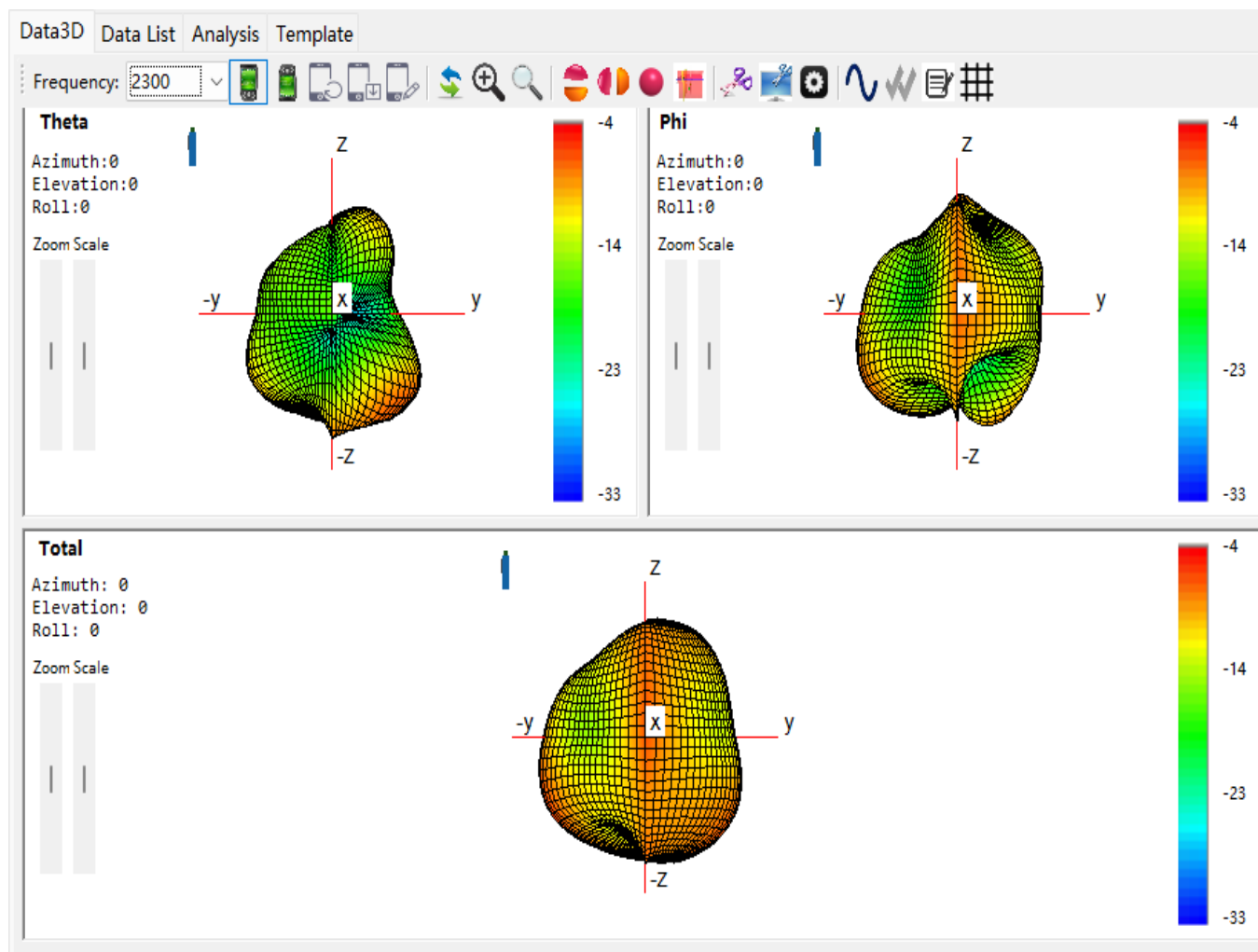
divergent antenna pattern



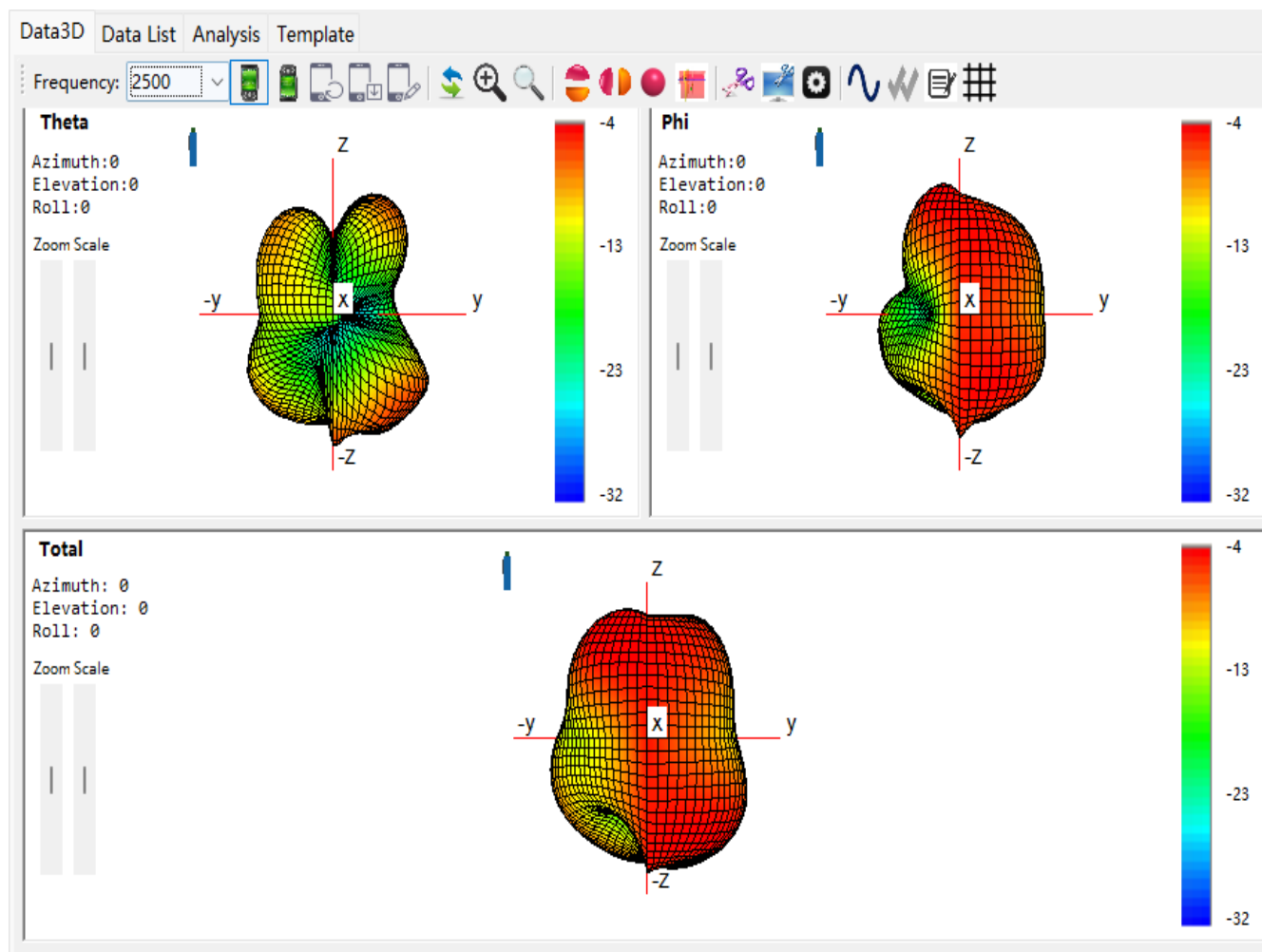
divergent antenna pattern



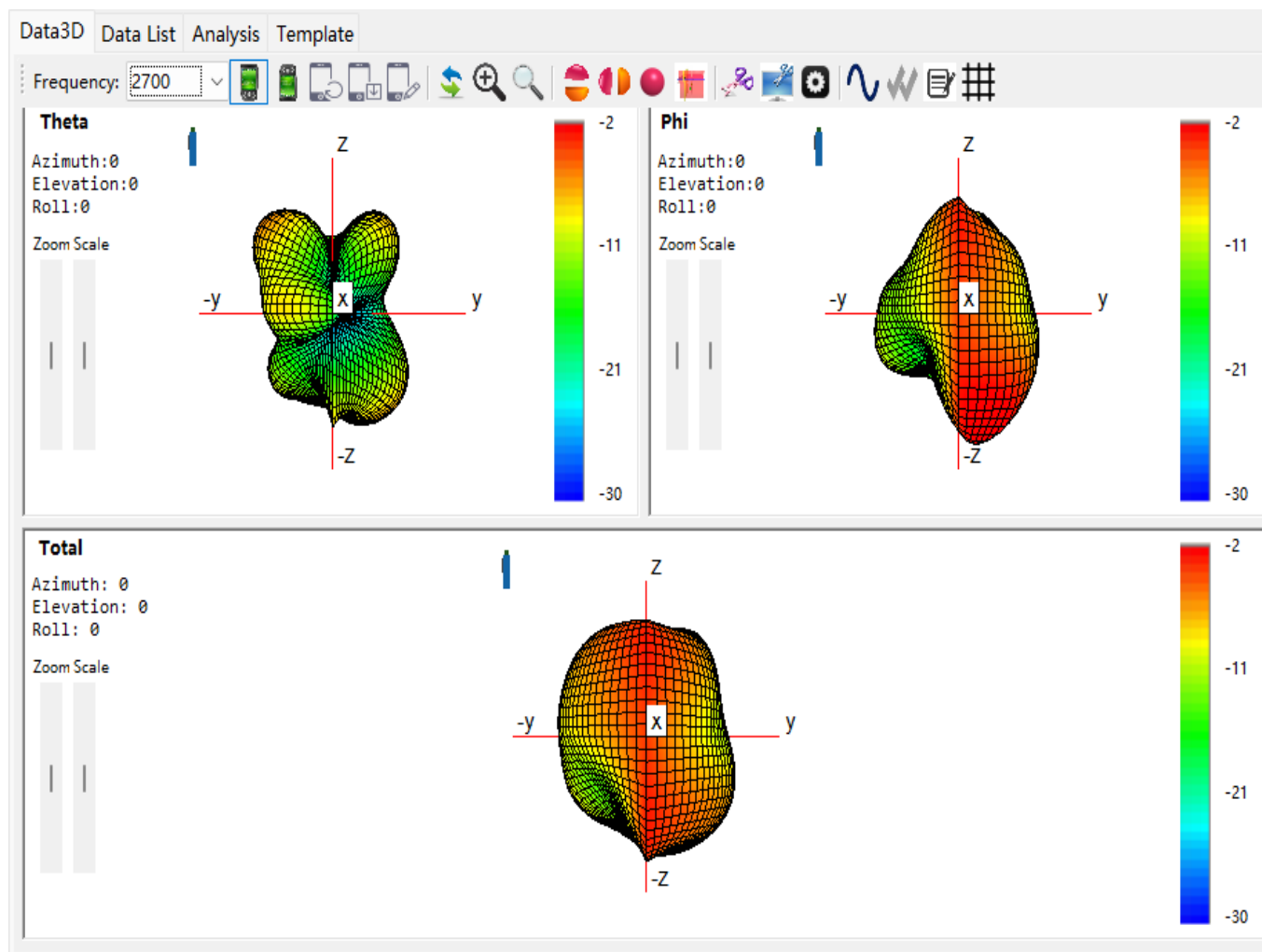
divergent antenna pattern



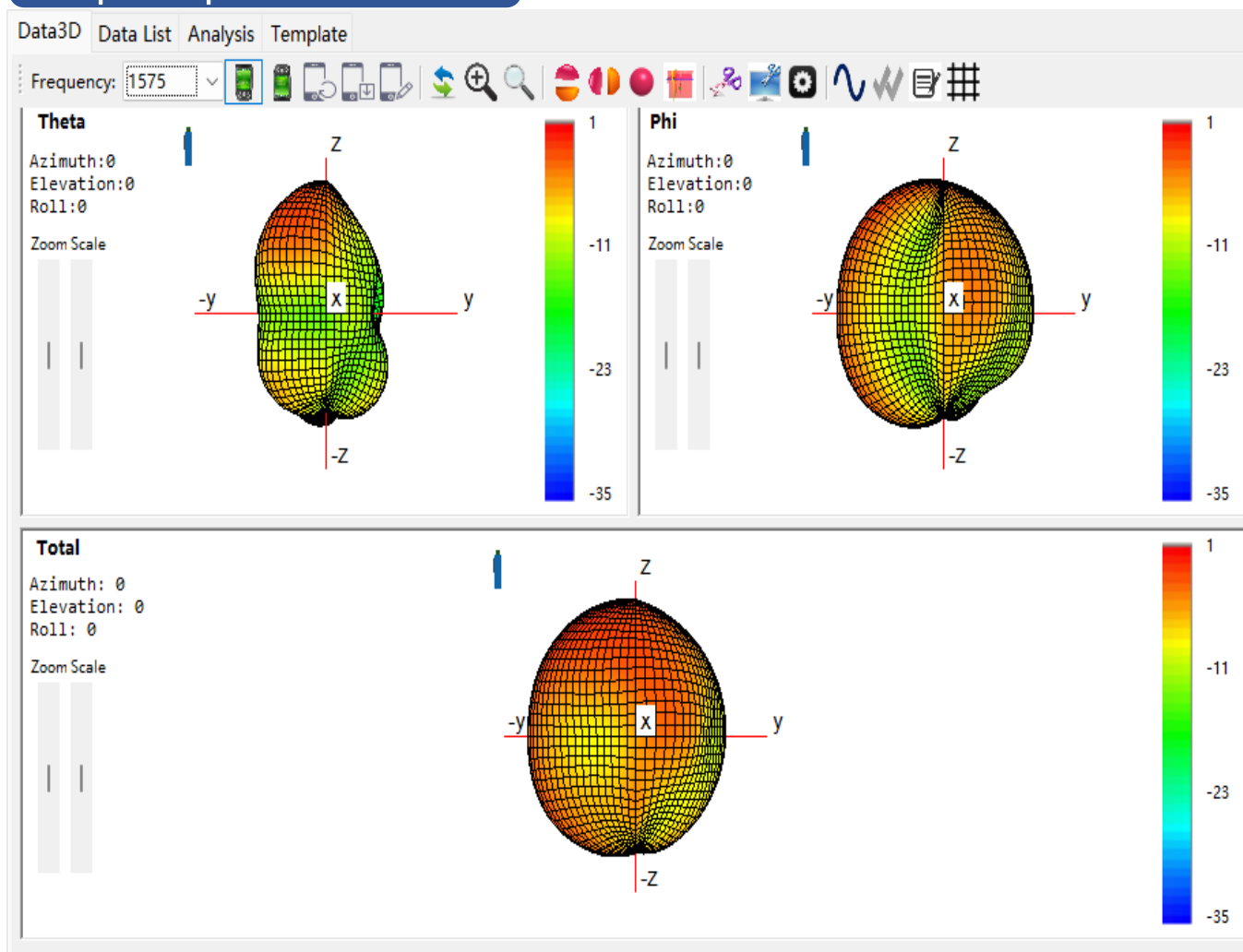
divergent antenna pattern



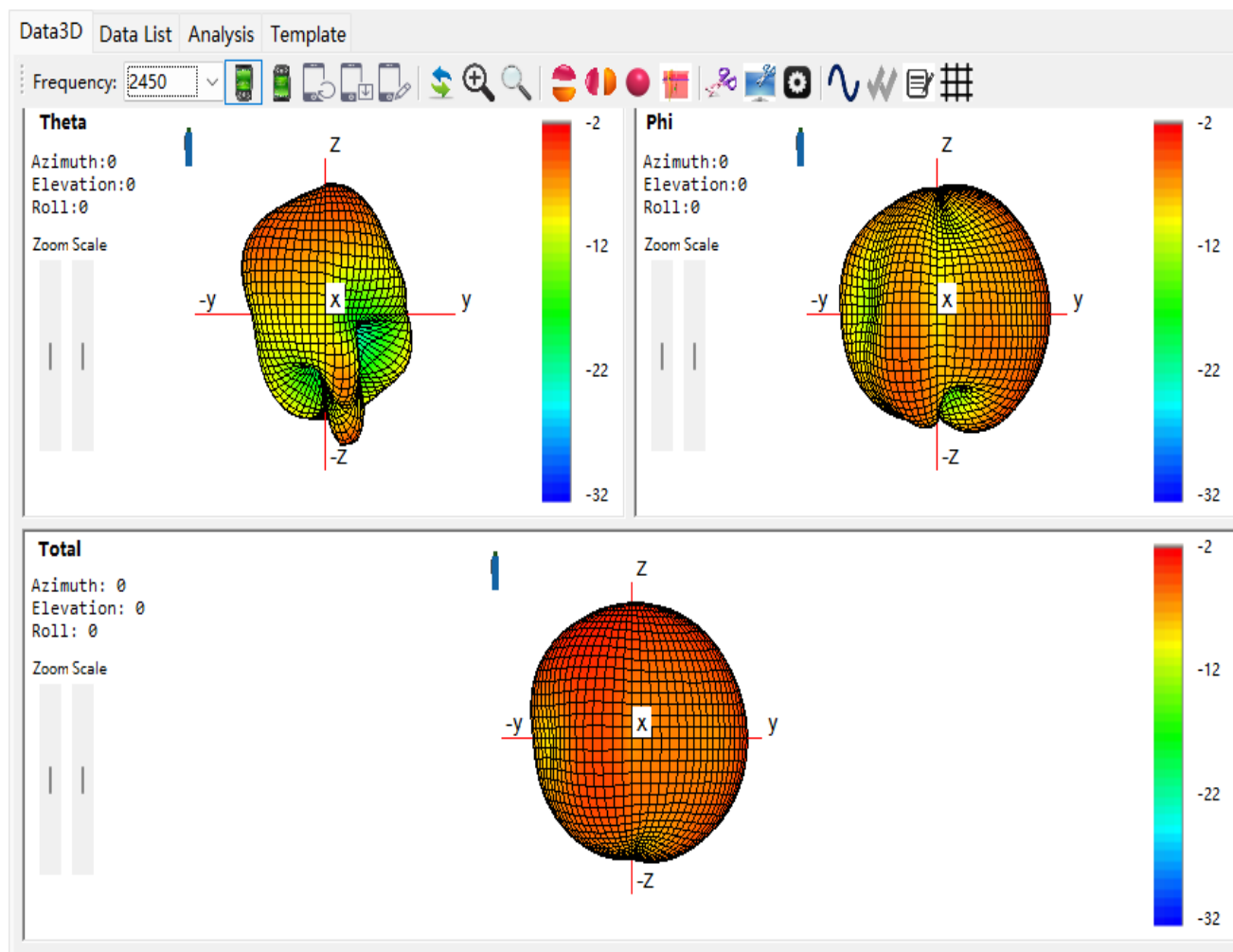
divergent antenna pattern



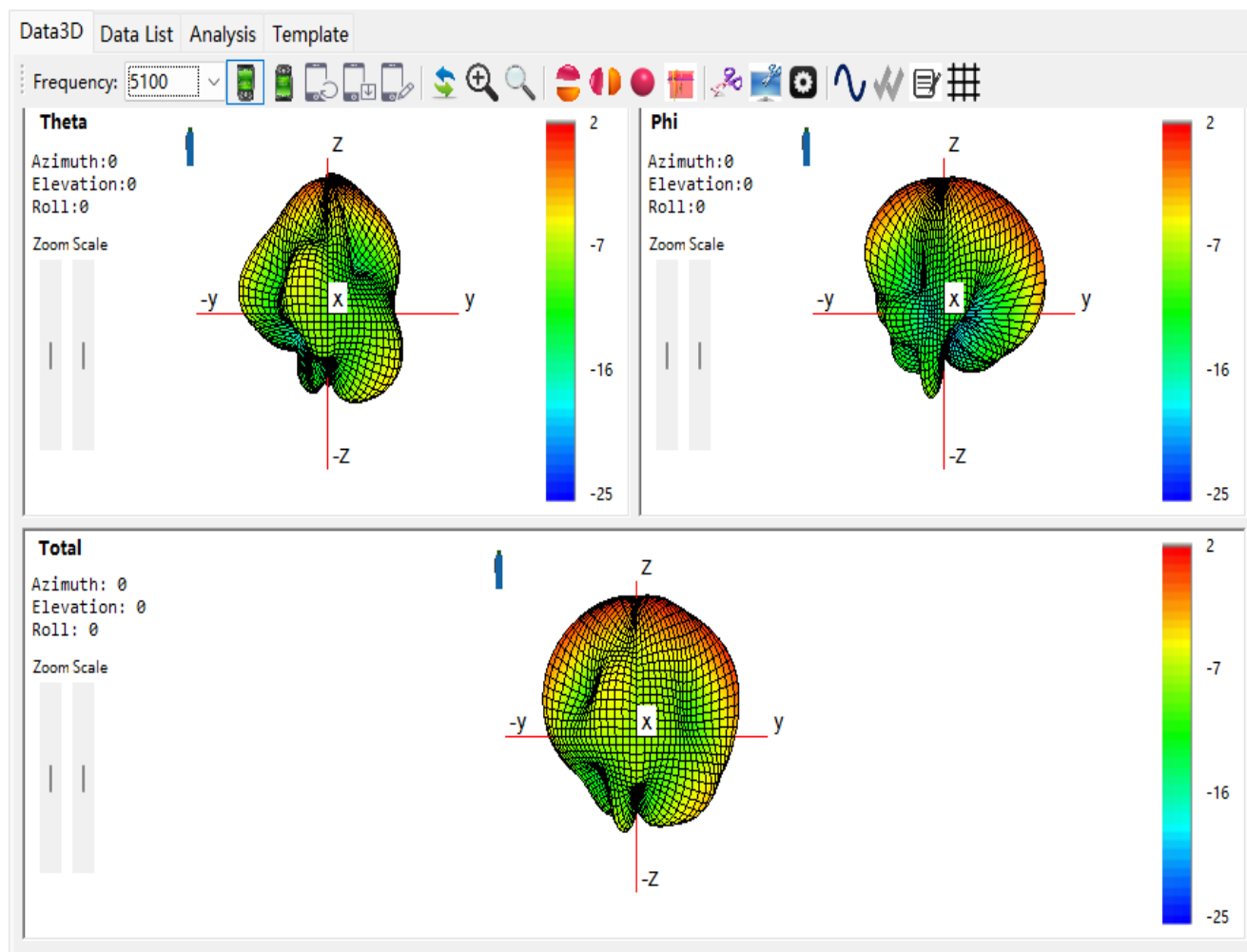
directional pattern of
quadriplex antenna



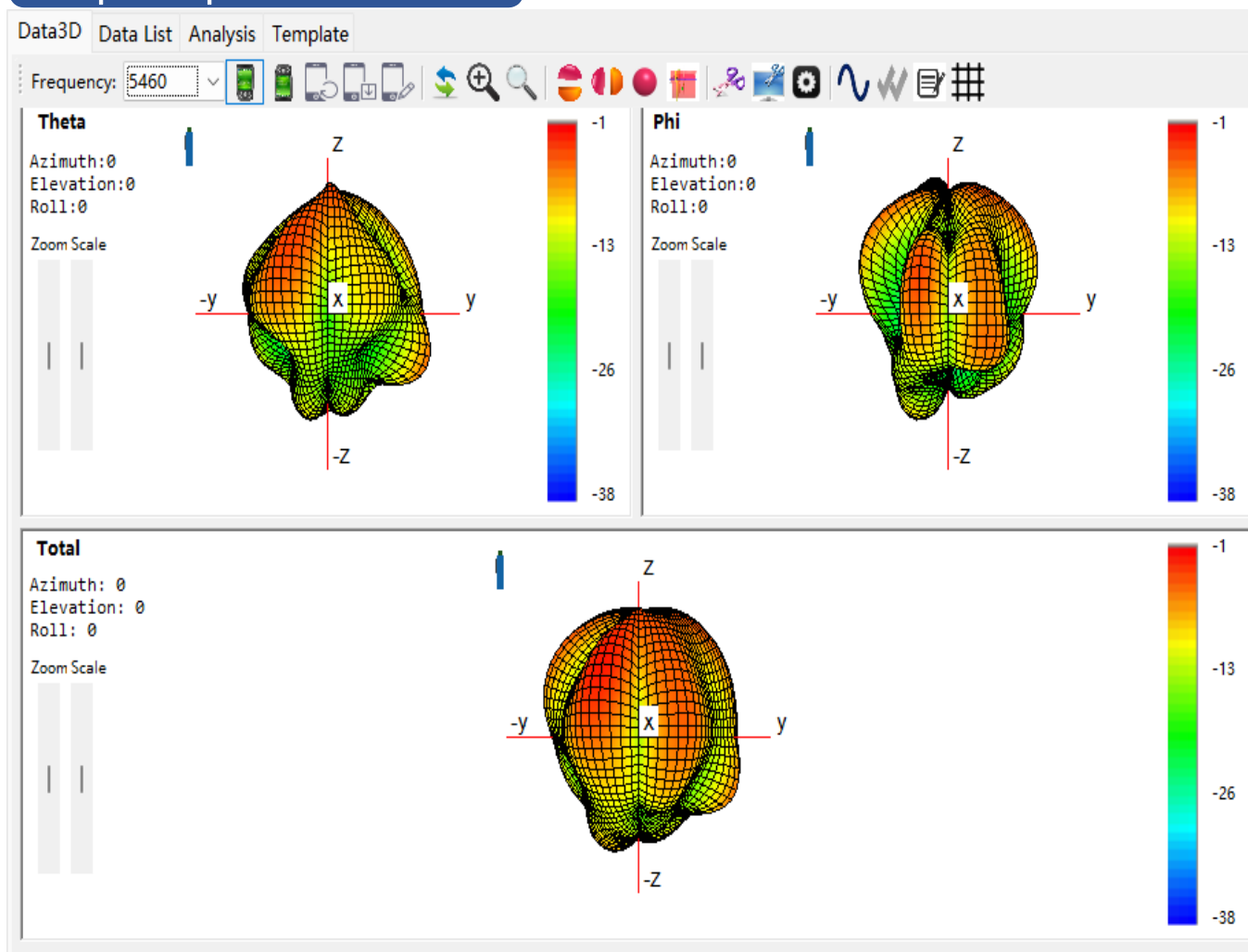
directional pattern of
quadriplex antenna



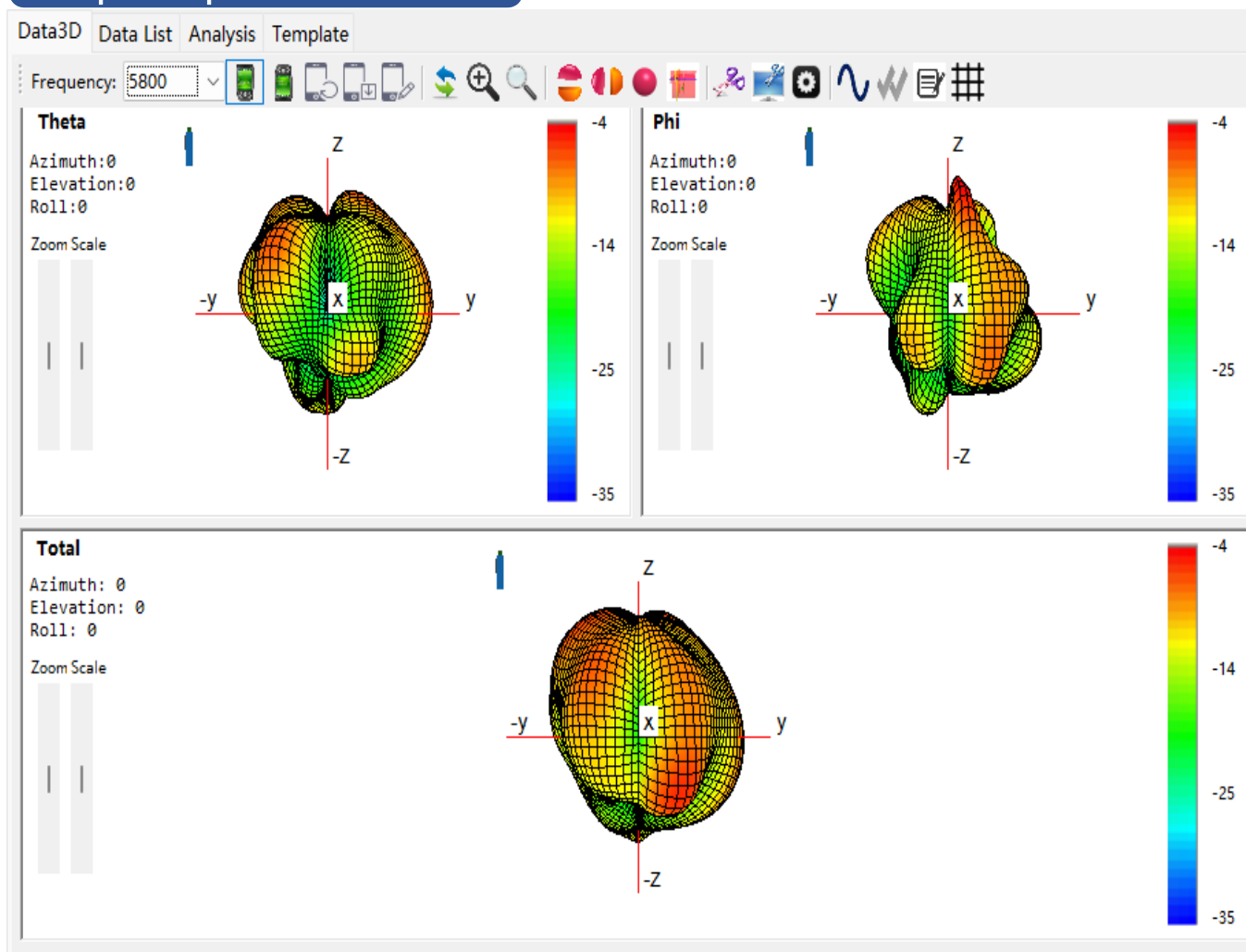
directional pattern of
quadriplex antenna



directional pattern of
quadriplex antenna



directional pattern of
quadriplex antenna



Thank you!



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