

Antenna Specification

Applicable Models	XY03-NB		
client			
Specifications			
	Product Content	Specification	Customer material code
Specifications	NB Antenna	FPC/white+coaxial cable/ first generation terminal 1.13*126mm	
Change Resume			
Serial number	Date	Version	Brief description of changes
1	2023-08-24	V1.0	New Projects
2			
3			

Supplier sample confirmation					
Research and Development		structure		Audit	
				determination	
				PASS ☒ FAIL ☐	
Customer sample confirmation					
Electronic	Structure	Project	Purchase	Quality	Audit
Reasons for rejection or other matters needing attention :					

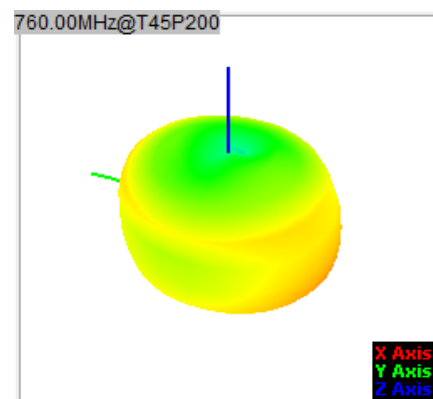
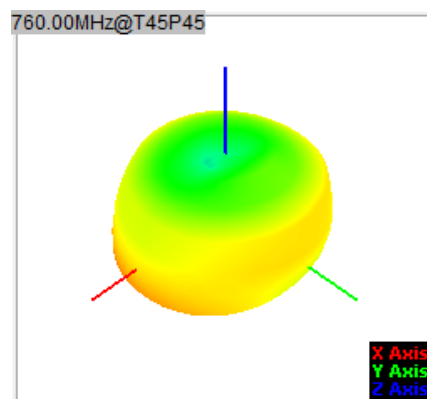
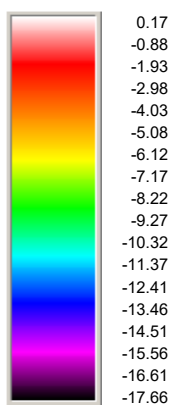
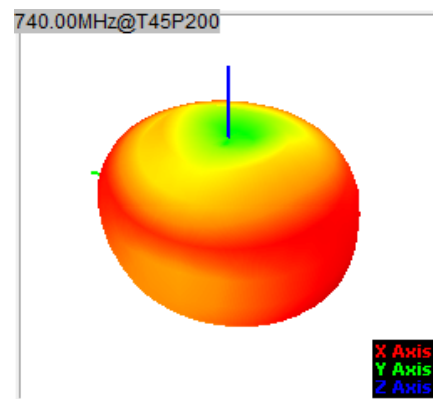
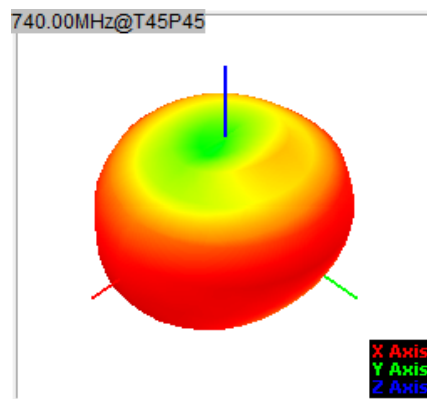
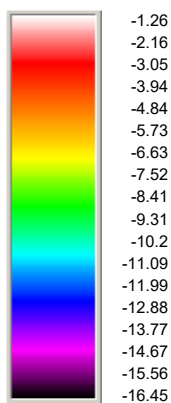
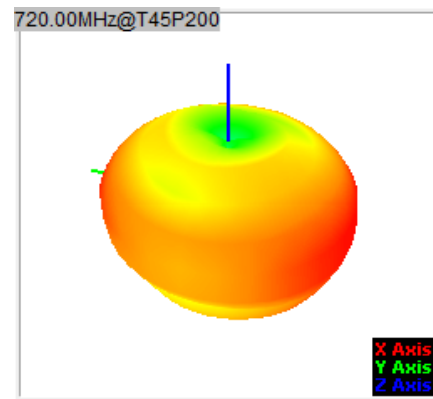
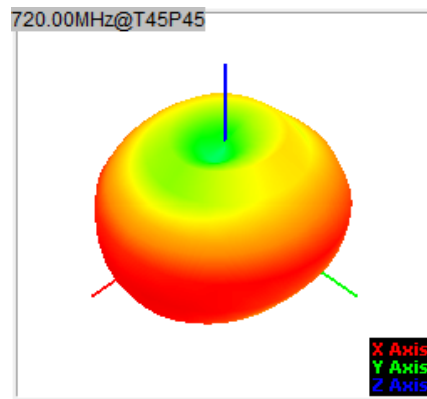
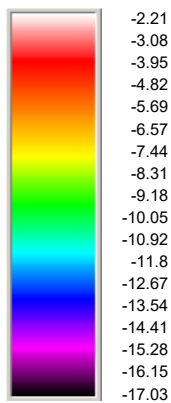
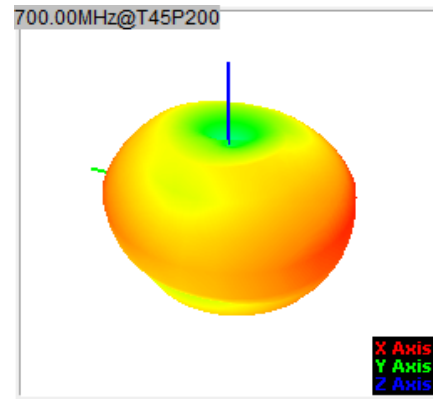
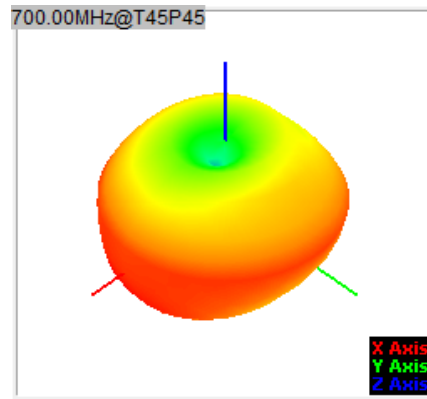
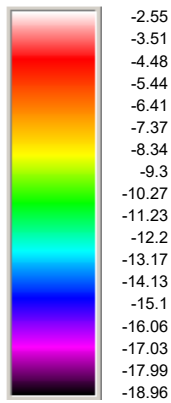
Contact: Wang Zhiqiang Contact: 13760153961 Tel: 0755-21633653 Fax: 0755-21633541

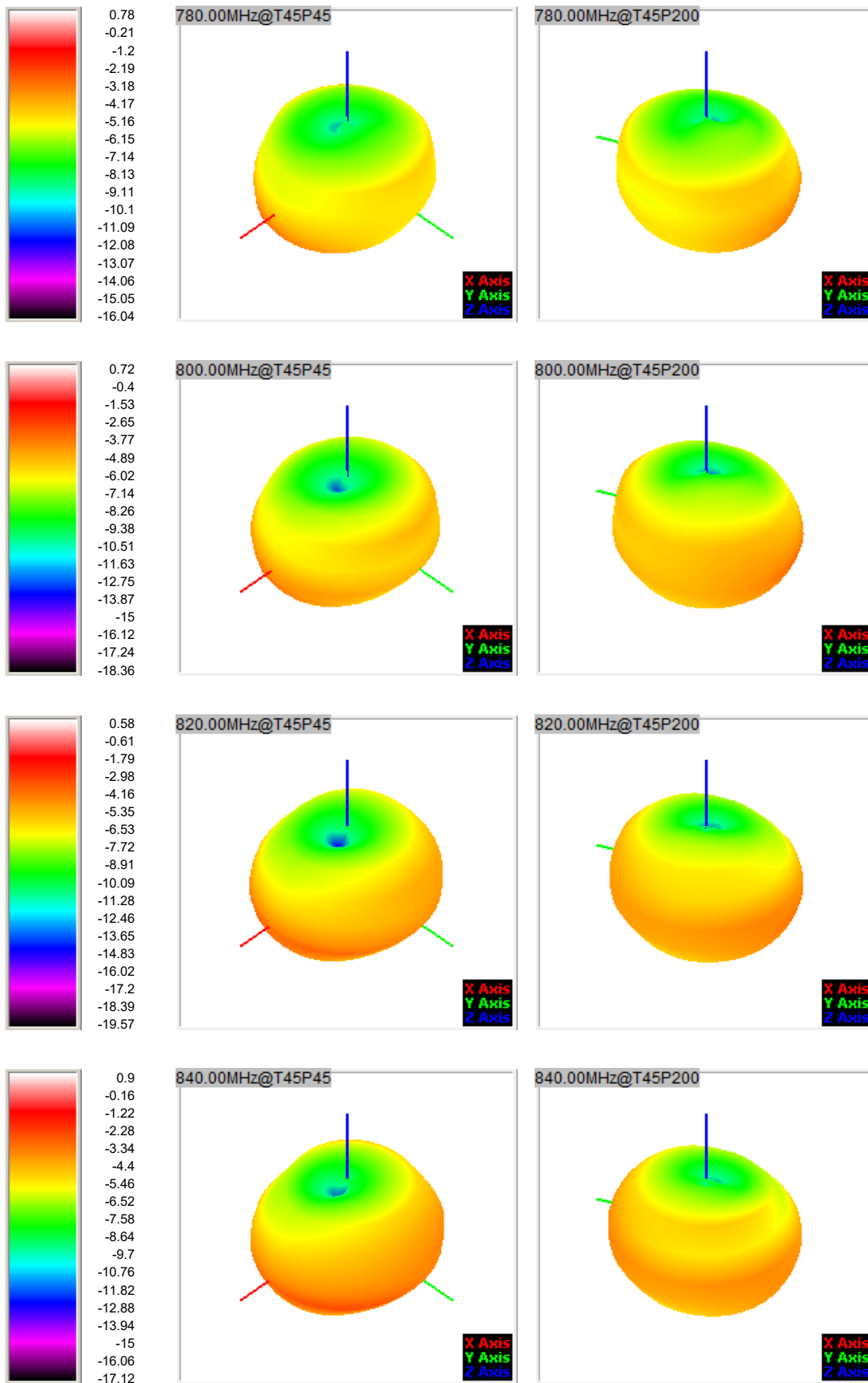
No. 425 and 443, 4/F, Block A, Huafeng Zhigu - Hangcheng Hi-Tech Industrial Park, Aviation Road, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, China

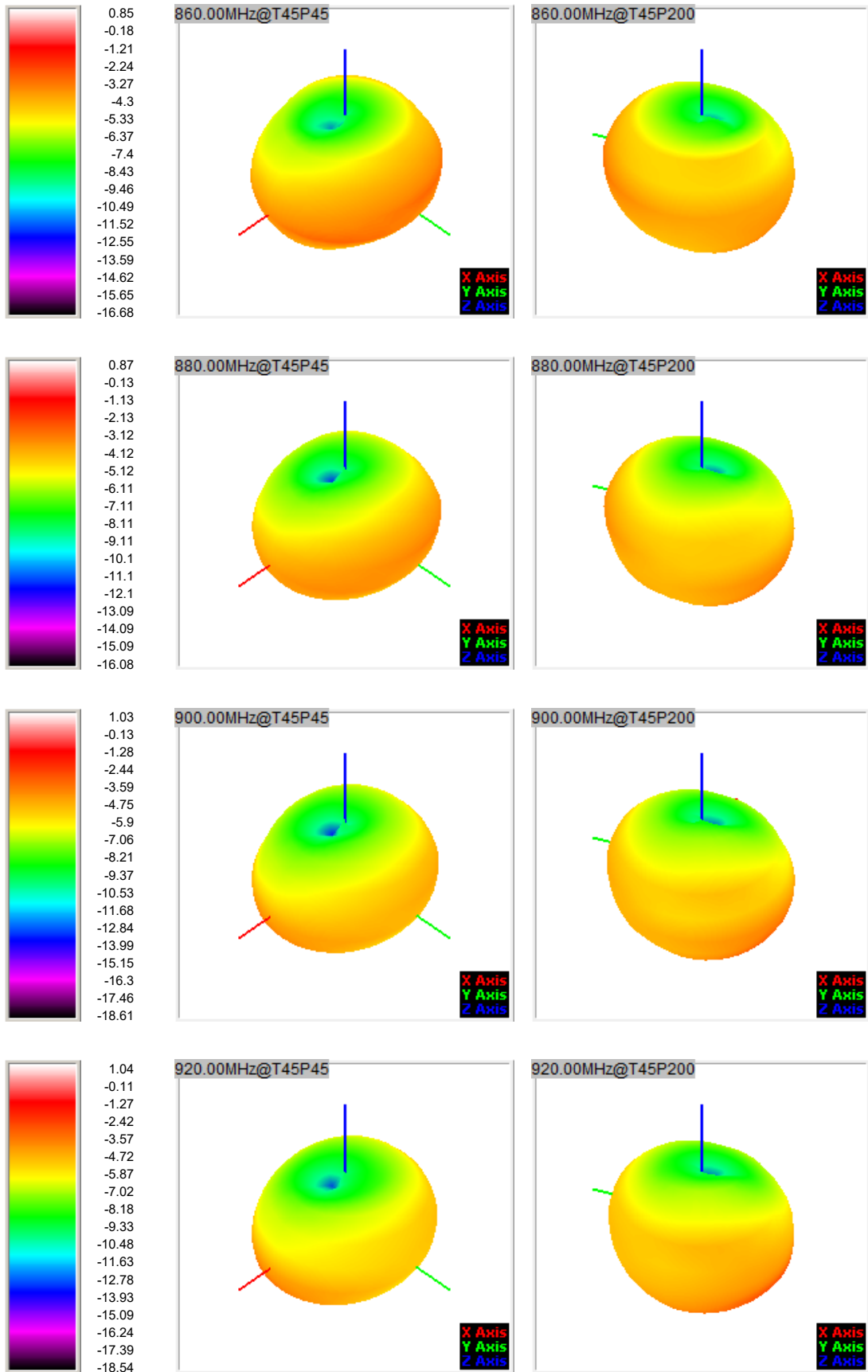
1. Antenna gain efficiency

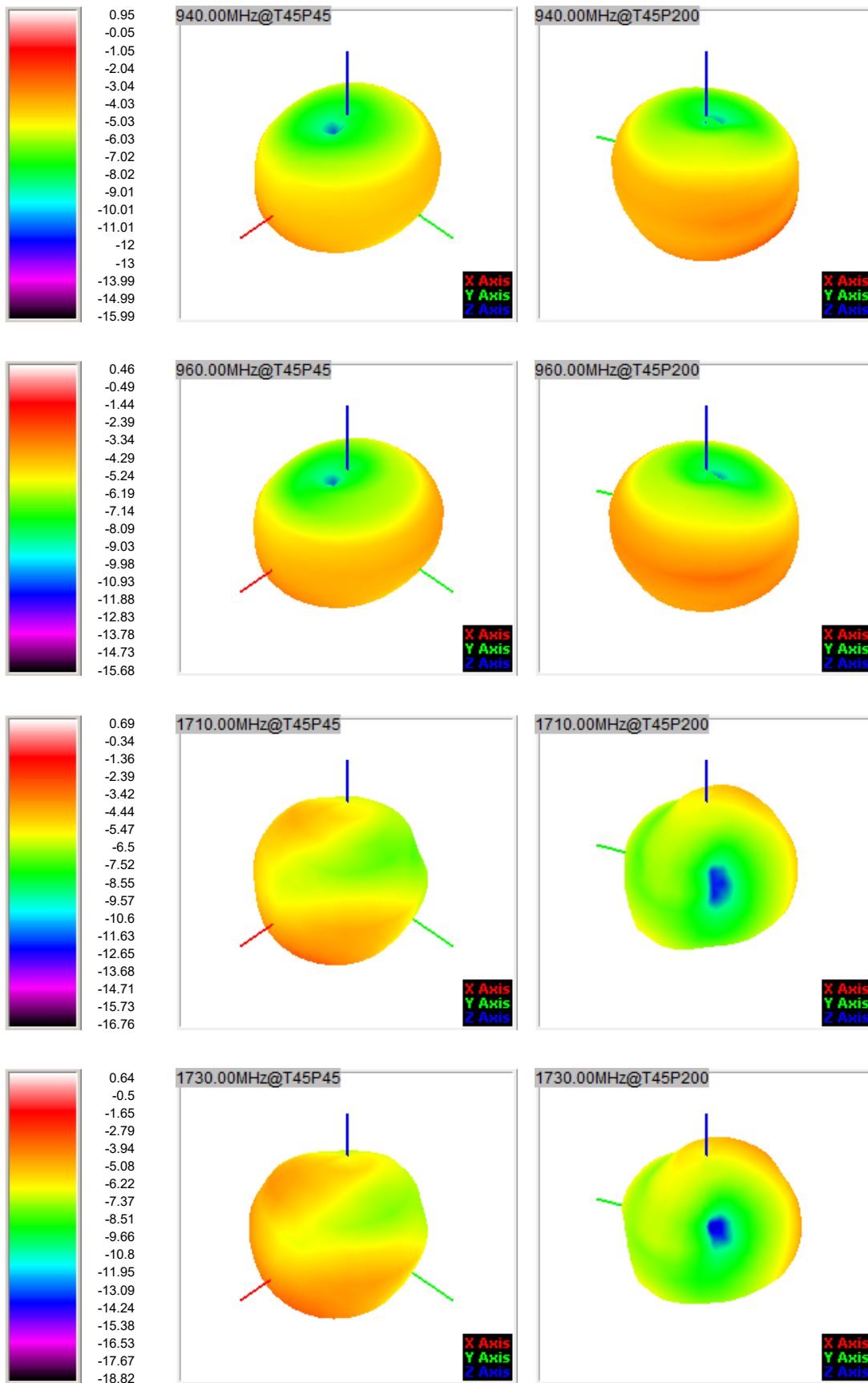
Frequency ID	Frequency (MHz)	Total Radiated Power (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	NHPRP ±Pi/4 (dBm)	NHPRP ±Pi/6 (dBm)	NHPRP ±Pi/8 (dBm)	Upper Hem. PRP (dBm)	Lower Hem. PRP (dBm)	Upper Hem. PRP (%)	Lower Hem. PRP (%)
1	700.0	-6.24	-2.55	3.69	-6.24	23.80	-2.55	-6.91	-8.02	-8.92	-9.19	-9.31	12.06	11.72
2	720.0	-5.60	-2.21	3.40	-5.60	27.50	-2.21	-6.27	-7.35	-8.25	-8.59	-8.64	13.84	13.68
3	740.0	-4.62	-1.26	3.35	-4.62	34.50	-1.26	-5.26	-6.38	-7.38	-7.77	-7.49	16.71	17.83
4	760.0	-3.83	0.17	4.00	-3.83	41.40	0.17	-4.42	-5.54	-6.55	-7.34	-6.39	18.43	22.97
5	780.0	-3.08	0.78	3.85	-3.08	49.30	0.78	-3.64	-4.75	-5.75	-6.66	-5.58	21.57	27.69
6	800.0	-2.53	0.72	3.24	-2.53	55.90	0.72	-3.09	-4.21	-5.20	-5.89	-5.21	25.79	30.12
7	820.0	-2.24	0.58	2.82	-2.24	59.70	0.58	-2.83	-3.88	-4.74	-5.39	-5.12	28.92	30.75
8	840.0	-2.10	0.90	3.01	-2.10	61.60	0.90	-2.75	-3.85	-4.70	-5.14	-5.09	30.61	31.01
9	860.0	-2.14	0.85	2.99	-2.14	61.10	0.85	-2.79	-3.95	-4.87	-5.24	-5.07	29.95	31.14
10	880.0	-2.38	0.87	3.25	-2.38	57.80	0.87	-3.02	-4.13	-5.04	-5.71	-5.09	26.83	30.98
11	900.0	-2.48	1.03	3.51	-2.48	56.40	1.03	-3.12	-4.25	-5.21	-6.15	-4.93	24.29	32.15
12	920.0	-2.43	1.04	3.47	-2.43	57.10	1.04	-3.04	-4.20	-5.20	-6.22	-4.79	23.88	33.23
13	940.0	-2.27	0.95	3.21	-2.27	59.40	0.95	-2.89	-4.06	-5.07	-5.93	-4.70	25.51	33.85
14	960.0	-2.20	0.46	2.66	-2.20	60.20	0.46	-2.84	-3.94	-4.86	-5.63	-4.83	27.33	32.91
15	1710.0	-3.87	0.69	4.56	-3.87	41.00	0.69	-4.93	-6.08	-7.02	-6.96	-6.80	20.15	20.88
16	1730.0	-3.32	0.64	3.96	-3.32	46.60	0.64	-4.37	-5.51	-6.41	-6.22	-6.44	23.87	22.70
17	1750.0	-2.95	1.08	4.04	-2.95	50.60	1.08	-3.98	-5.11	-6.00	-5.77	-6.17	26.49	24.15
18	1770.0	-2.82	1.18	4.00	-2.82	52.30	1.18	-3.81	-4.96	-5.85	-5.45	-6.24	28.49	23.76
19	1790.0	-2.79	1.24	4.03	-2.79	52.60	1.24	-3.75	-4.93	-5.86	-5.20	-6.50	30.19	22.37
20	1810.0	-2.72	1.15	3.87	-2.72	53.50	1.15	-3.64	-4.81	-5.74	-5.01	-6.59	31.58	21.92
21	1830.0	-2.64	1.27	3.91	-2.64	54.50	1.27	-3.55	-4.69	-5.58	-4.87	-6.59	32.55	21.95
22	1850.0	-2.48	1.64	4.12	-2.48	56.50	1.64	-3.41	-4.54	-5.41	-4.63	-6.57	34.47	22.02
23	1870.0	-2.31	2.18	4.49	-2.31	58.70	2.18	-3.23	-4.31	-5.16	-4.36	-6.55	36.61	22.14
24	1890.0	-2.18	2.34	4.52	-2.18	60.50	2.34	-3.08	-4.13	-4.99	-4.20	-6.49	38.05	22.41
25	1910.0	-2.03	2.38	4.40	-2.03	62.70	2.38	-2.94	-4.03	-4.91	-3.92	-6.55	40.59	22.14
26	1930.0	-1.87	2.69	4.56	-1.87	65.00	2.69	-2.79	-3.89	-4.78	-3.66	-6.58	43.09	21.95
27	1950.0	-1.60	2.98	4.58	-1.60	69.10	2.98	-2.53	-3.67	-4.57	-3.31	-6.49	46.68	22.43
28	1970.0	-1.54	2.94	4.49	-1.54	70.10	2.94	-2.48	-3.67	-4.64	-3.18	-6.57	48.07	22.02
29	1990.0	-1.39	3.14	4.54	-1.39	72.60	3.14	-2.31	-3.52	-4.49	-2.95	-6.59	50.67	21.91
30	2010.0	-1.33	3.30	4.64	-1.33	73.60	3.30	-2.24	-3.44	-4.41	-2.83	-6.68	52.10	21.47
31	2030.0	-1.37	3.33	4.70	-1.37	72.90	3.33	-2.27	-3.48	-4.46	-2.83	-6.83	52.15	20.74
32	2050.0	-1.34	3.59	4.93	-1.34	73.50	3.59	-2.24	-3.42	-4.41	-2.74	-6.93	53.24	20.27
33	2070.0	-1.57	3.46	5.03	-1.57	69.70	3.46	-2.51	-3.68	-4.63	-2.90	-7.35	51.33	18.39
34	2090.0	-1.53	3.50	5.03	-1.53	70.30	3.50	-2.53	-3.69	-4.63	-2.77	-7.56	52.79	17.54
35	2110.0	-1.71	3.04	4.75	-1.71	67.50	3.04	-2.76	-3.92	-4.84	-2.89	-7.95	51.45	16.04
36	2130.0	-1.72	3.13	4.85	-1.72	67.30	3.13	-2.82	-4.01	-4.92	-2.87	-8.05	51.64	15.67
37	2150.0	-1.75	2.99	4.74	-1.75	66.90	2.99	-2.90	-4.15	-5.11	-2.85	-8.25	51.91	14.96
38	2170.0	-1.86	2.92	4.78	-1.86	65.20	2.92	-3.06	-4.37	-5.39	-2.89	-8.59	51.38	13.82
39	2300.0	-1.88	3.02	4.90	-1.88	64.90	3.02	-3.38	-4.84	-5.91	-3.07	-8.09	49.33	15.54

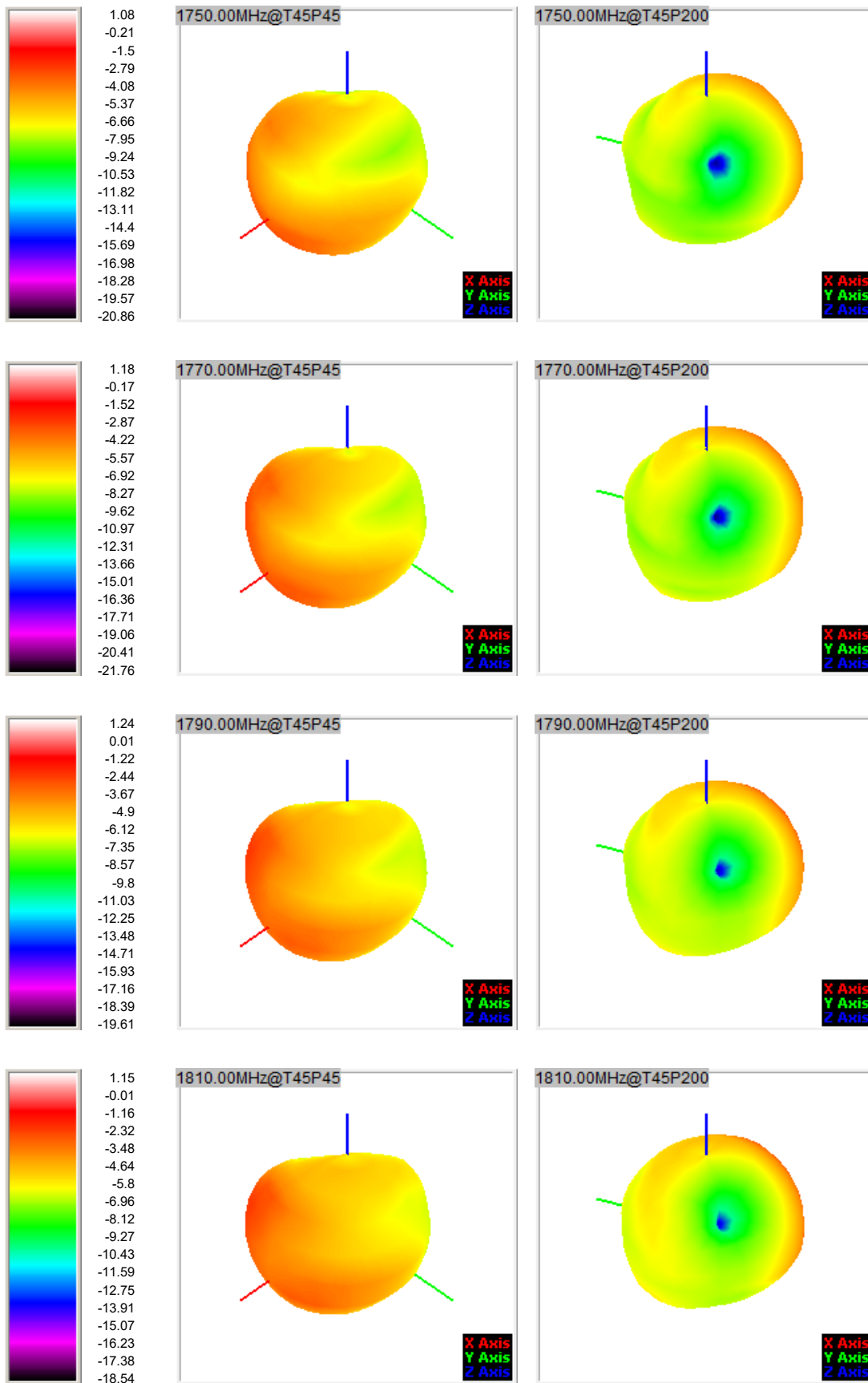
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41	2340.0	-1.67	3.22	4.89	-1.67	68.10	3.22	-3.23	-4.67	-5.73	-3.03	-7.38	49.79	18.28
42	2360.0	-1.67	3.38	5.04	-1.67	68.10	3.38	-3.25	-4.70	-5.78	-3.10	-7.17	48.95	19.18
43	2380.0	-1.70	3.51	5.22	-1.70	67.60	3.51	-3.29	-4.78	-5.87	-3.17	-7.13	48.20	19.38
44	2400.0	-1.85	3.23	5.08	-1.85	65.40	3.23	-3.43	-4.97	-6.12	-3.39	-7.09	45.87	19.52
45	2420.0	-1.92	2.93	4.85	-1.92	64.30	2.93	-3.51	-5.09	-6.28	-3.52	-7.03	44.48	19.82
46	2440.0	-1.95	2.68	4.63	-1.95	63.80	2.68	-3.54	-5.12	-6.33	-3.67	-6.82	42.98	20.81
47	2460.0	-1.83	2.86	4.69	-1.83	65.60	2.86	-3.40	-4.95	-6.10	-3.69	-6.41	42.71	22.85
48	2480.0	-1.96	2.75	4.72	-1.96	63.60	2.75	-3.51	-5.02	-6.12	-3.91	-6.39	40.68	22.96
49	2500.0	-1.90	2.91	4.81	-1.90	64.60	2.91	-3.46	-4.97	-6.05	-3.91	-6.21	40.61	23.94
50	2520.0	-2.08	2.83	4.91	-2.08	61.90	2.83	-3.68	-5.20	-6.29	-4.10	-6.38	38.89	23.03
51	2540.0	-2.11	2.67	4.79	-2.11	61.50	2.67	-3.73	-5.31	-6.47	-4.17	-6.35	38.30	23.15
52	2560.0	-2.12	2.80	4.92	-2.12	61.30	2.80	-3.73	-5.35	-6.56	-4.27	-6.22	37.43	23.89
53	2580.0	-2.01	3.13	5.14	-2.01	62.90	3.13	-3.57	-5.16	-6.34	-4.28	-5.91	37.31	25.62
54	2600.0	-1.87	3.42	5.29	-1.87	65.00	3.42	-3.38	-4.97	-6.17	-4.25	-5.61	37.55	27.48
55	2620.0	-1.96	3.39	5.35	-1.96	63.70	3.39	-3.45	-5.08	-6.33	-4.45	-5.56	35.87	27.80
56	2640.0	-1.92	3.23	5.15	-1.92	64.20	3.23	-3.40	-5.03	-6.30	-4.53	-5.38	35.23	28.99
57	2660.0	-2.11	2.84	4.94	-2.11	61.50	2.84	-3.58	-5.23	-6.50	-4.75	-5.52	33.48	28.06
58	2680.0	-2.09	2.74	4.83	-2.09	61.80	2.74	-3.57	-5.29	-6.61	-4.73	-5.51	33.67	28.11
59	2700.0	-2.21	2.47	4.68	-2.21	60.10	2.47	-3.71	-5.50	-6.86	-4.86	-5.63	32.69	27.37

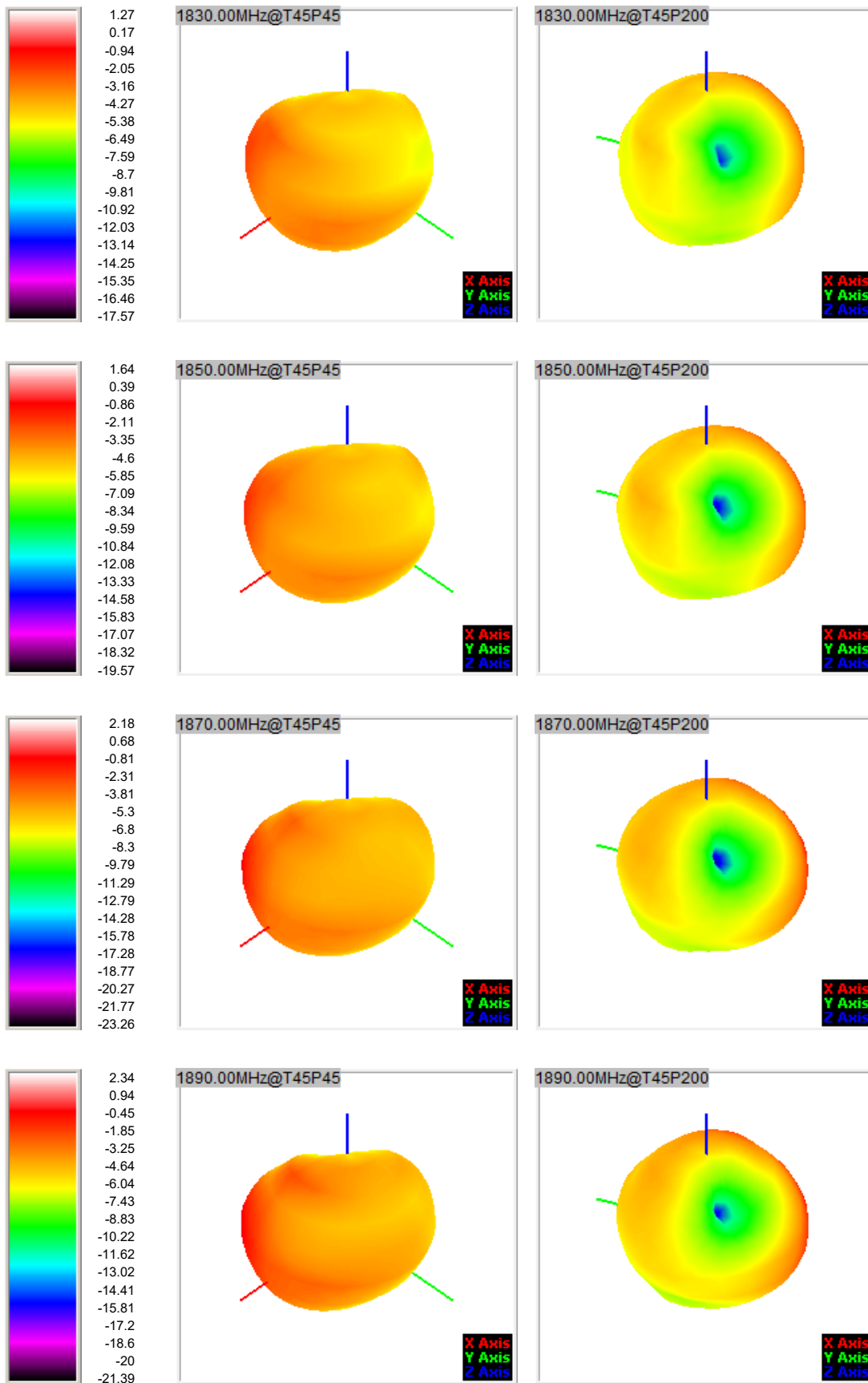


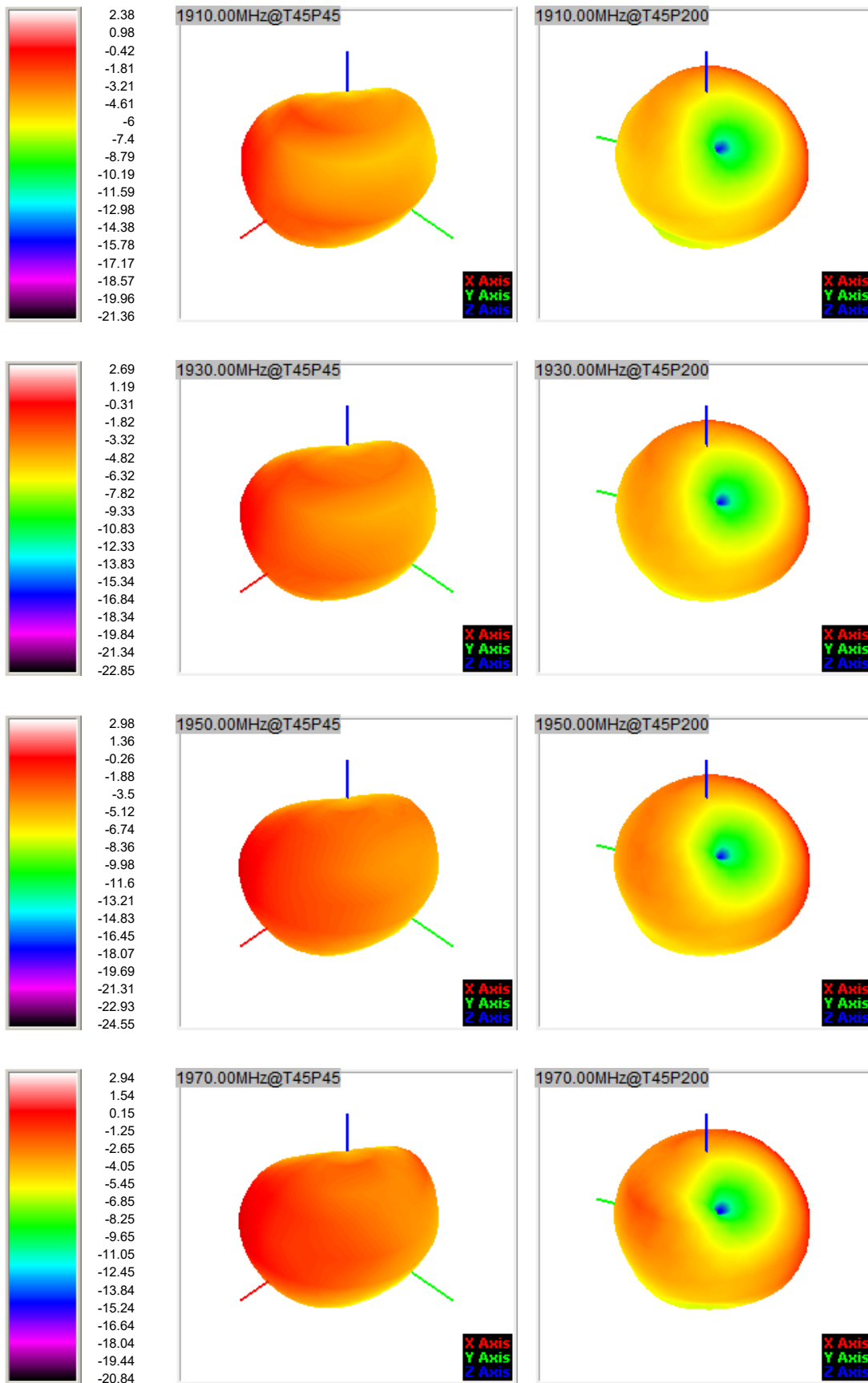


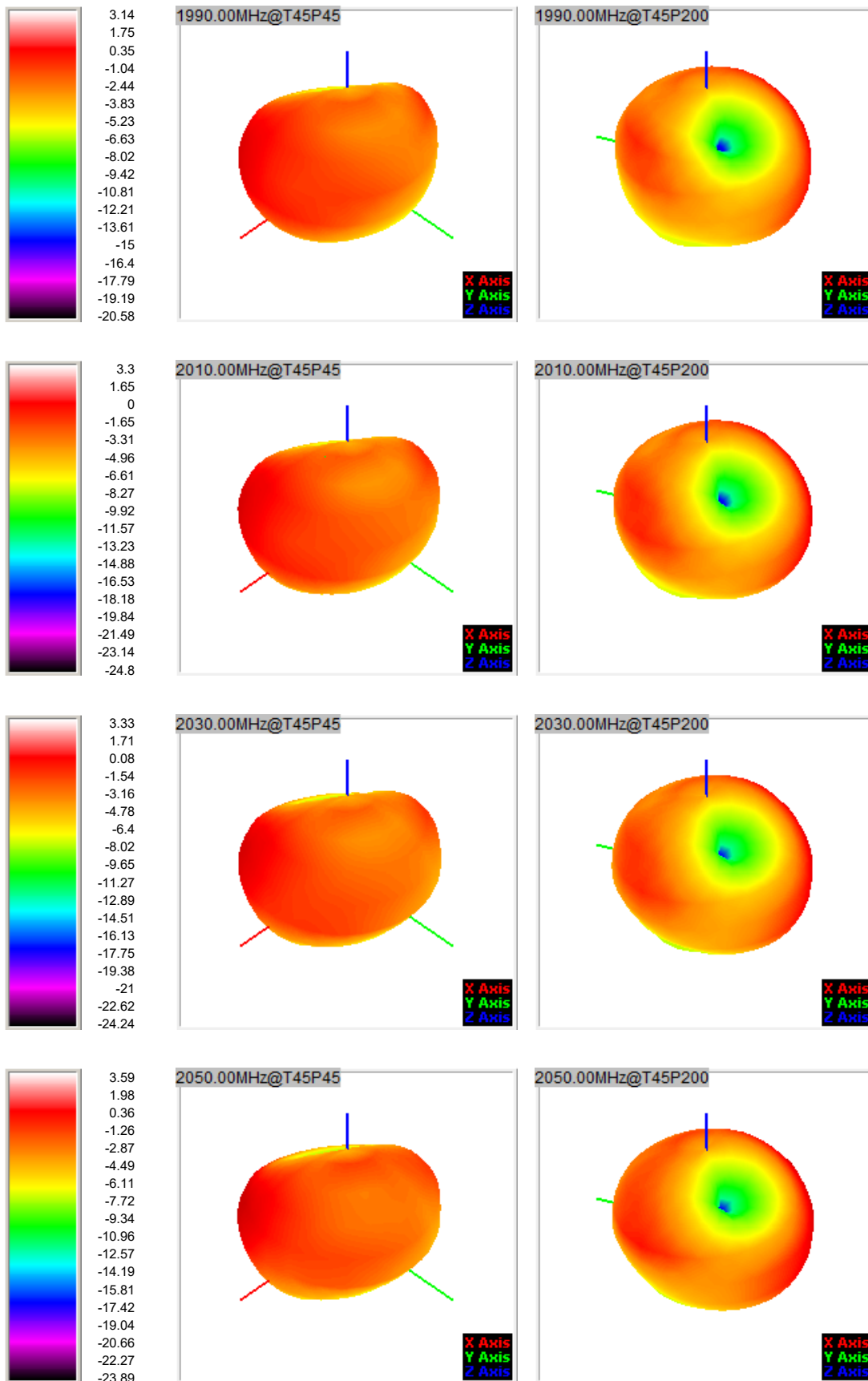


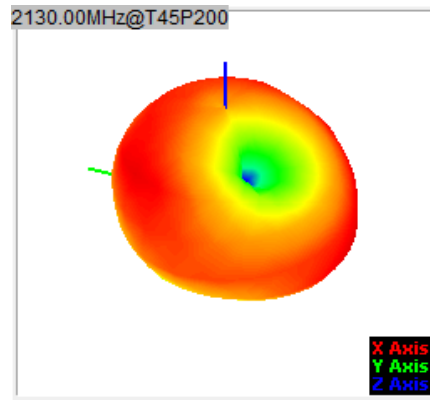
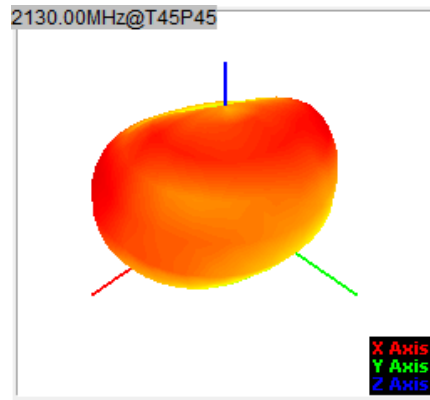
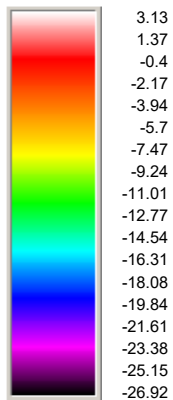
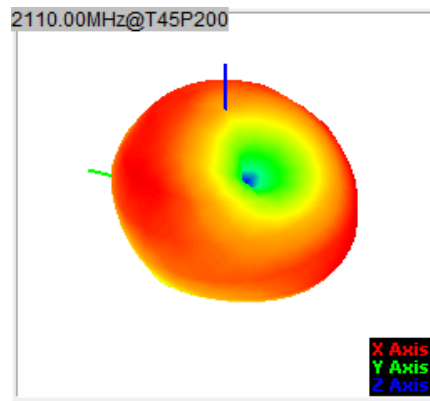
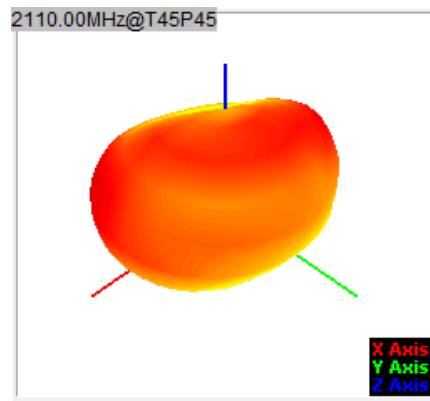
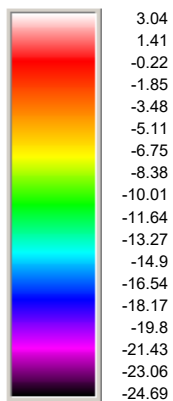
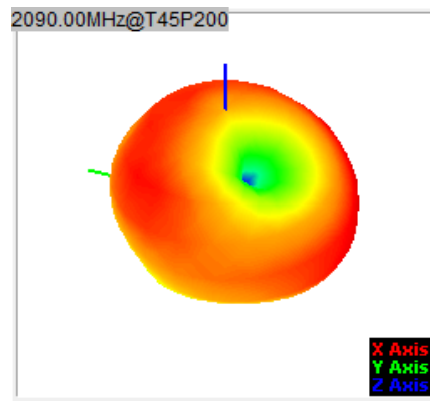
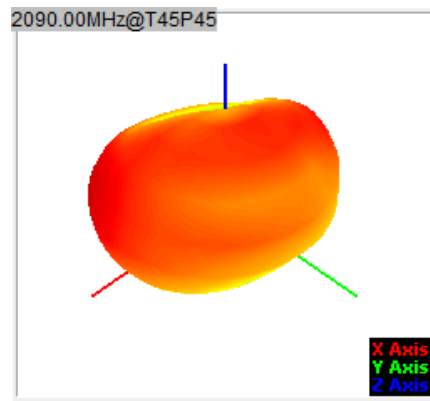
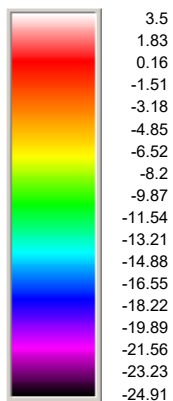
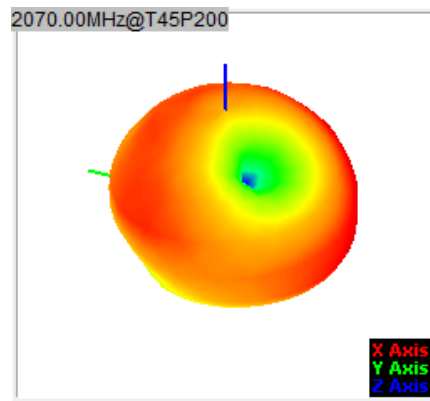
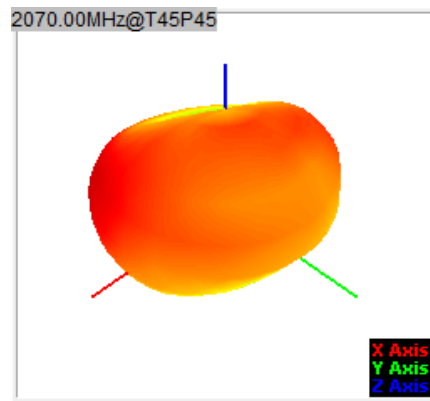
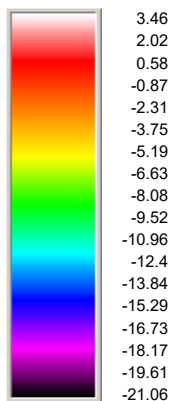


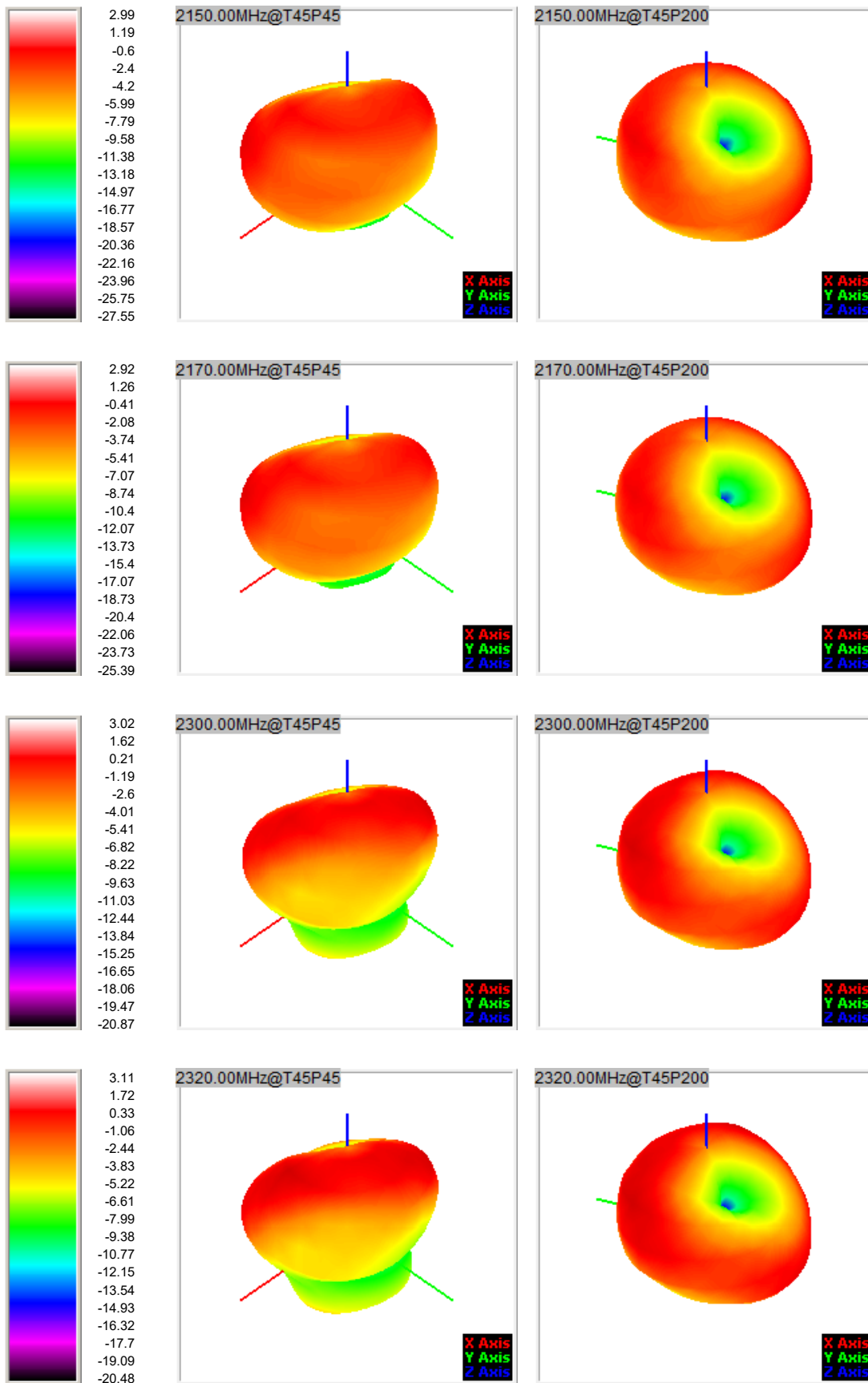


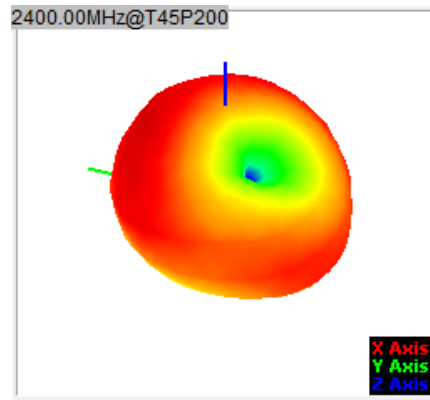
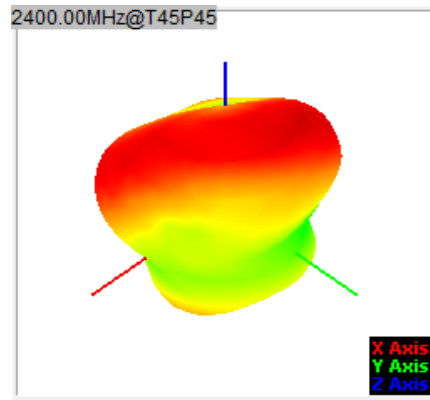
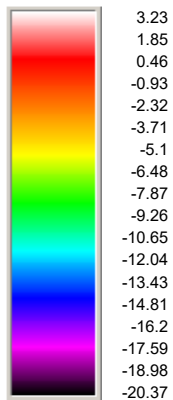
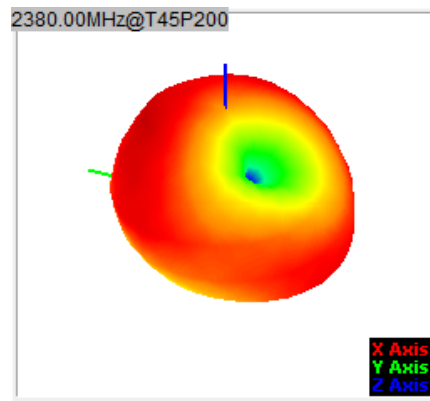
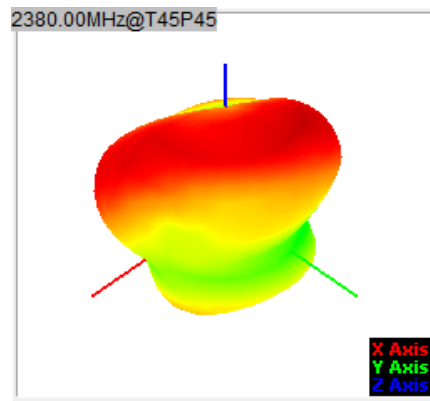
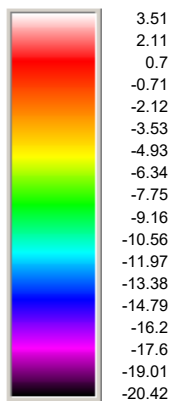
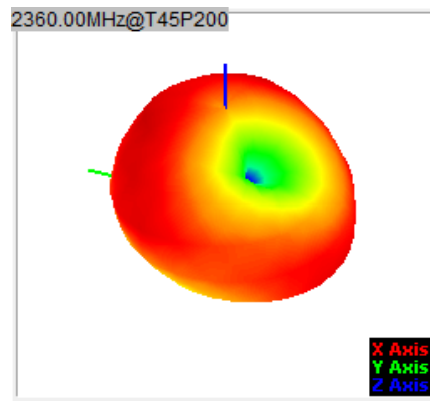
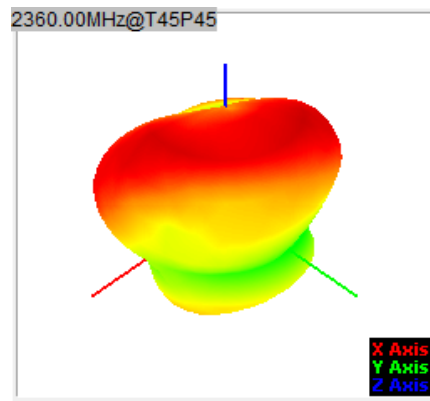
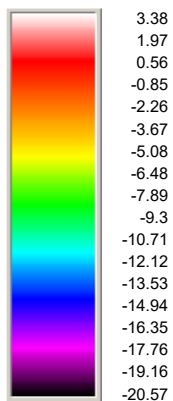
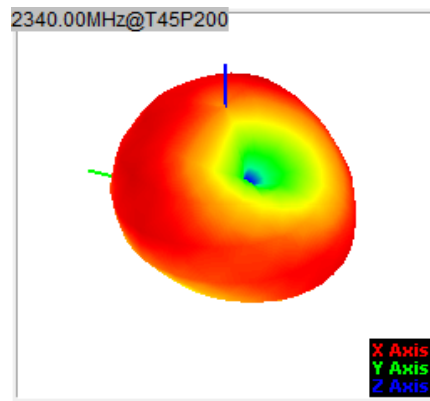
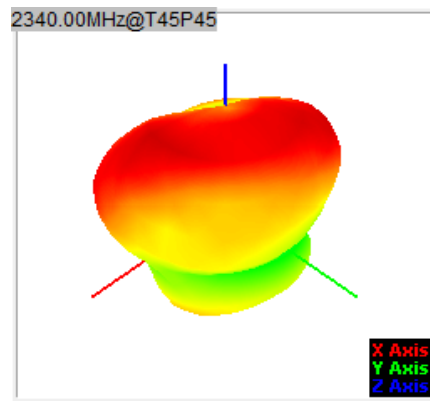
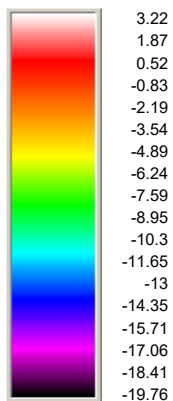


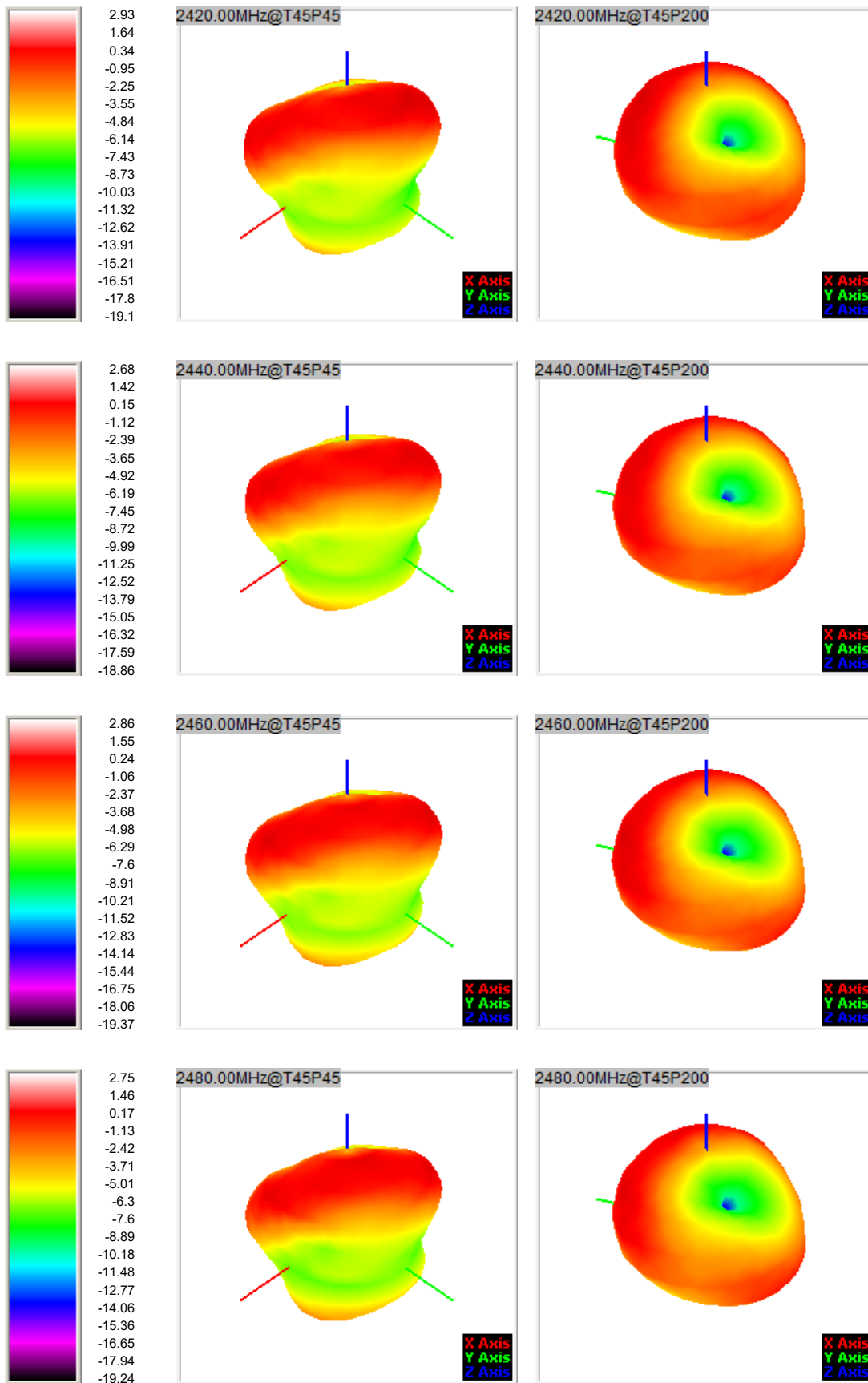


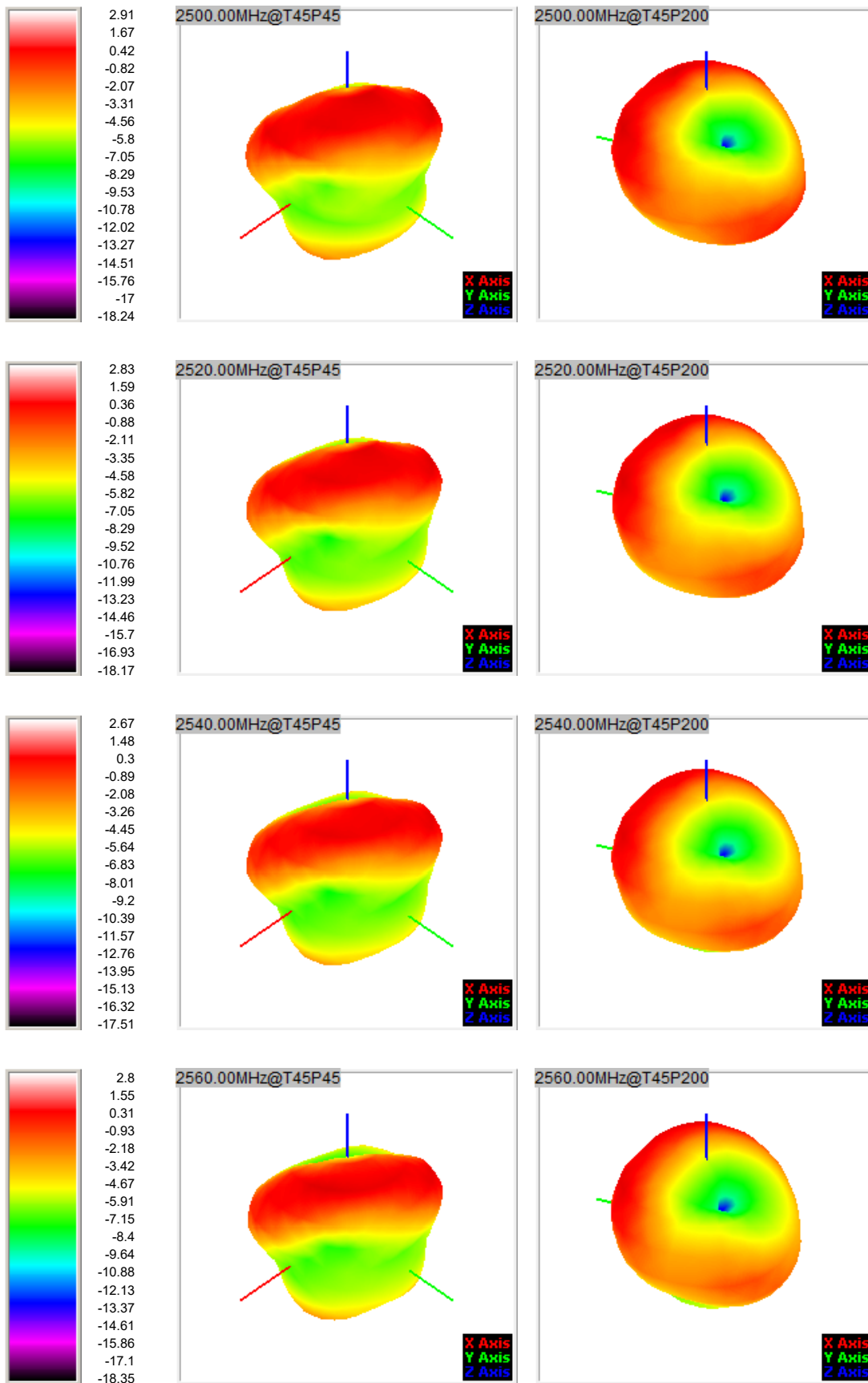


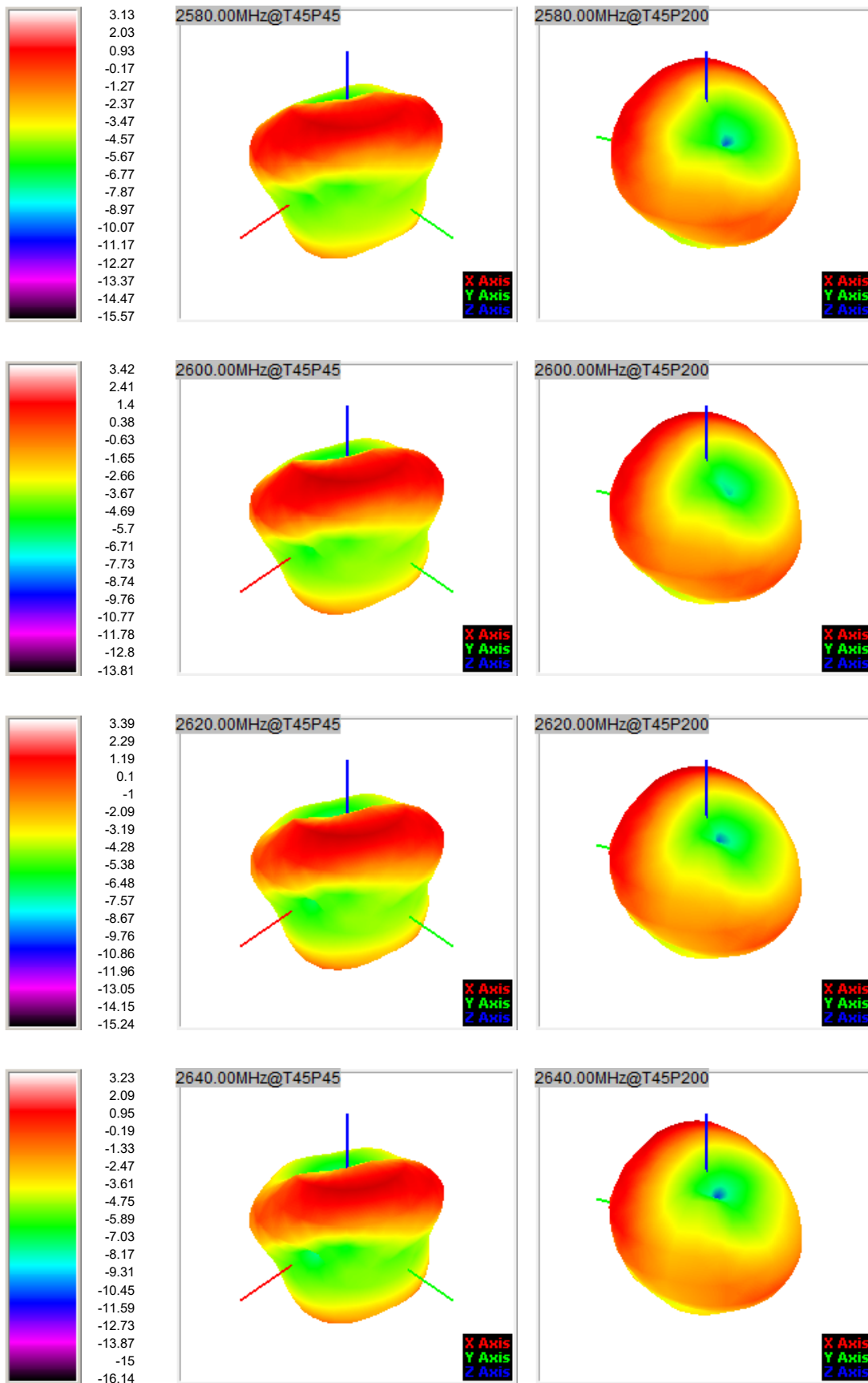


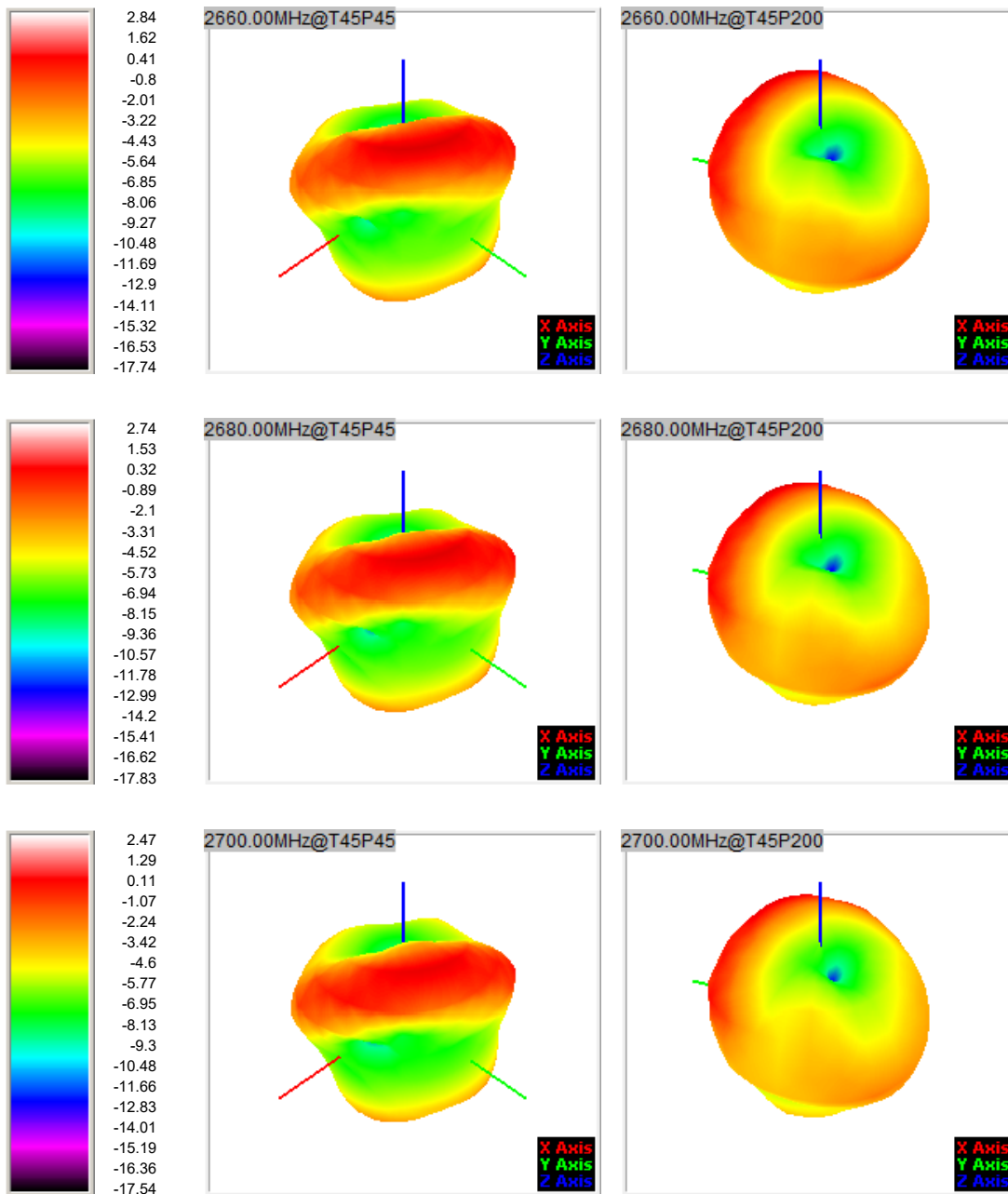












2. Antenna structure drawing

