

納入仕様書

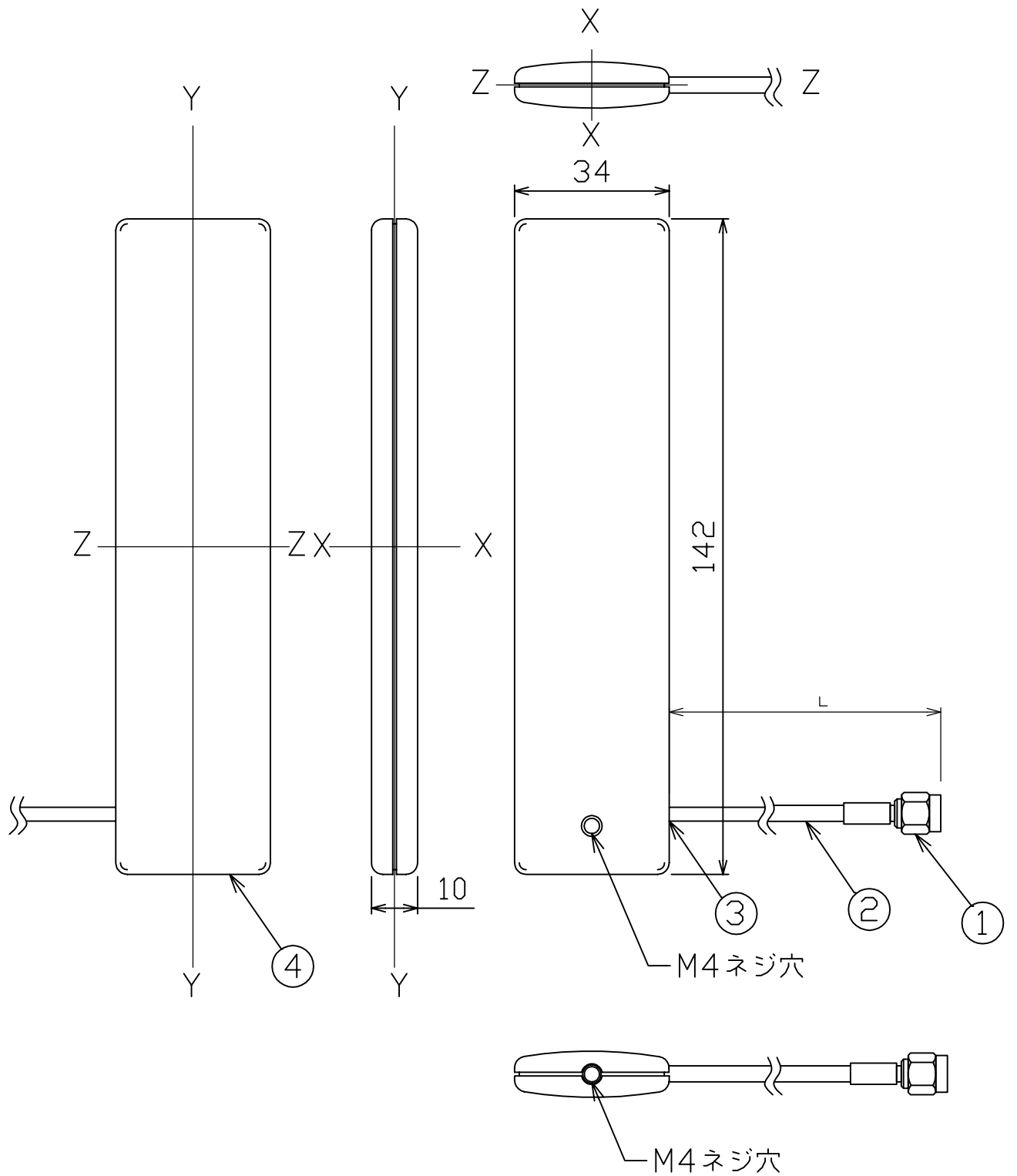
ウインドウアンテナ 825S6- * -SMAP
ルーフトップアンテナ RTA825S6L- * -SMAP
マグネットアンテナ MG825S6L- * -SMAP

アンテナ仕様書

仕様項目		仕様内容
1	品名	ウィンドウアンテナ
2	型番	825S6-*-SMAP *は、ケーブル長を示す。5mの場合、825S6-5-SMAP

3	使用周波数	28(n28)	(	715	~	748)
		"	(	770	~	803)
		18(n18)	(	815	~	830)
		"	(	860	~	875)
		19(n5)	(	830	~	845)
		"	(	875	~	890)
		8(n8)	(	900	~	915)
		"	(	945	~	960)
		11(n74)	(	1427.9	~	1447.9)
		21(n74)	(	1447.9	~	1462.9)
		11(n74)	(	1475.9	~	1495.9)
		21(n74)	(	1495.9	~	1510.9)
		GPS	(	1575.42)	
		3(n3)	(	1710	~	1725)
		"	(	1730	~	1784.9)
		"	(	1805	~	1865)
		"	(	1859.9	~	1879.9)
		1(n1)	(	1920	~	1980)
		"	(	2110	~	2170)
		n40	(	2330	~	2370)
		Wifi	(	2401	~	2497)
		n41	(	2545	~	2645)
		42(n78)	(	3400	~	3600)
		n77,n78	(	3600	~	4000)
		"	(	4000	~	4100)
		n79	(	4500	~	4900)
		Wifi	(	5170	~	5330)
"	(	5490	~	5730)		
"	(	5945	~	6425)		

4	形式	単一型 (V) 1/4 λ (グラウンドプレーン)
5	入力インピーダンス	50 Ω
6	定在波比	2.5 : 1 以下 (同調周波数において)
7	アンテナ利得	別紙 参照
8	放射パターン特性	別紙 参照
9	接続端子	SMA-P 型
10	寸法	3.4x1.0x14.2cm (ケーブル含まず)
11	質量 (ケーブル含まず)	約 40g
12	取付け方法	吸盤または M4 ネジ



L
***mm±3%

尺度	単位 mm	SAGA DENSHI KOGYO CO.,LTD.
図番 2022012603	図名 825S6-＊-SMAP 外觀図	
新宅	小柳	FILE NAME 825S6外觀図.dwg
設計	製図	検図

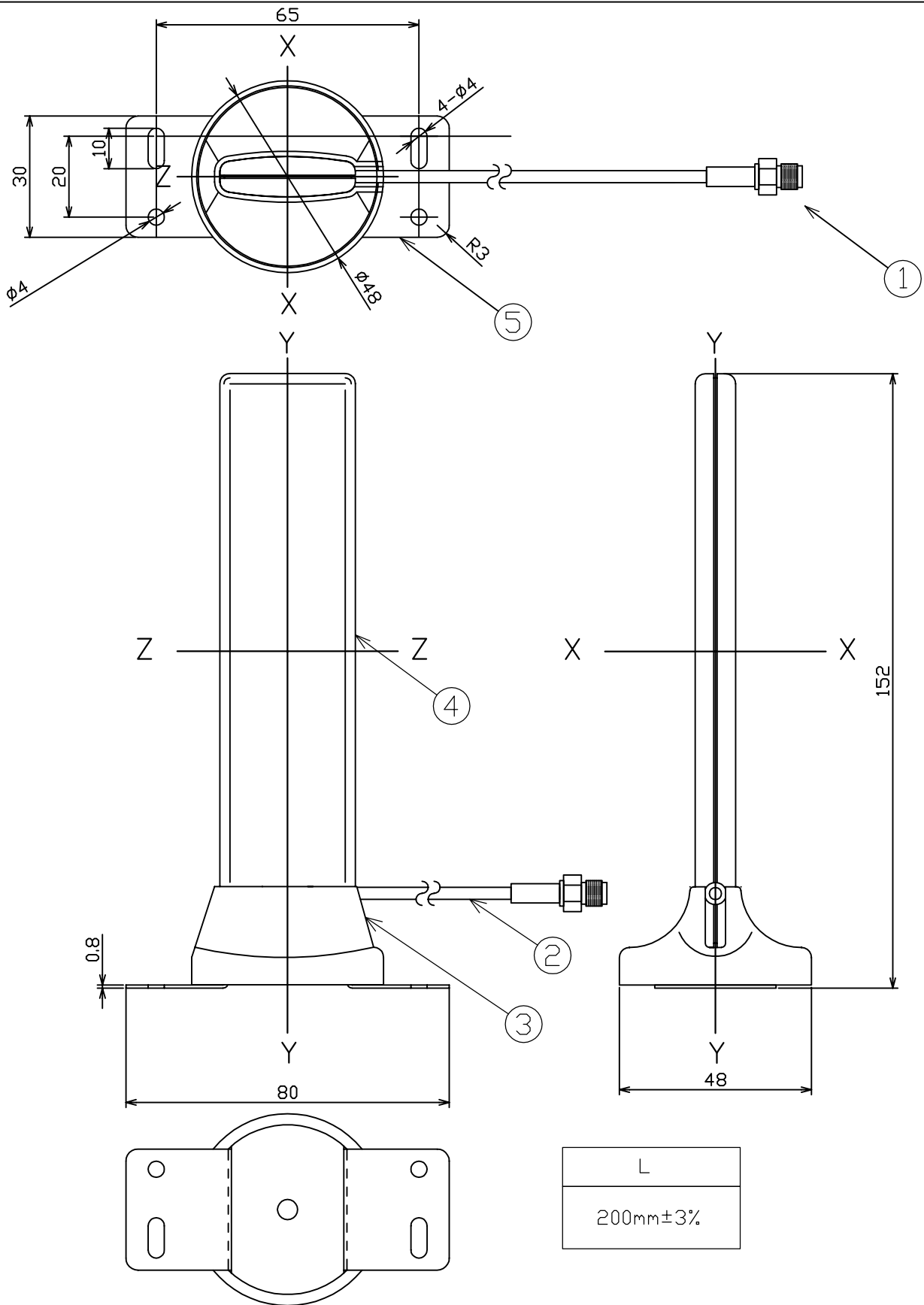
5			
4	アンテナレドーム	ABS	黒
3	グロメット	NPE	黒
2	1.5DS-QFB(又は相当品)	PVC	黒
1	SMA-P型	Bs	メッキ仕上げ
部番	部品名	材質	備考

アンテナ仕様書

仕様項目		仕様内容
1	品名	ルーフトップアンテナ
2	型名	RTA825S6L*-SMAP * は、ケーブル長を示す。5m の場合、RTA825S6L-5-SMAP

3	使用周波数	28(n28)	(	715	~	748)
		"	(	770	~	803)
		18(n18)	(	815	~	830)
		"	(	860	~	875)
		19(n5)	(	830	~	845)
		"	(	875	~	890)
		8(n8)	(	900	~	915)
		"	(	945	~	960)
		11(n74)	(	1427.9	~	1447.9)
		21(n74)	(	1447.9	~	1462.9)
		11(n74)	(	1475.9	~	1495.9)
		21(n74)	(	1495.9	~	1510.9)
		GPS	(	1575.42)	
		3(n3)	(	1710	~	1725)
		"	(	1730	~	1784.9)
		"	(	1805	~	1865)
		"	(	1859.9	~	1879.9)
		1(n1)	(	1920	~	1980)
		"	(	2110	~	2170)
		n40	(	2330	~	2370)
		Wifi	(	2401	~	2497)
		n41	(	2545	~	2645)
		42(n78)	(	3400	~	3600)
		n77,n78	(	3600	~	4000)
		"	(	4000	~	4100)
		n79	(	4500	~	4900)
Wifi	(	5170	~	5330)		
"	(	5490	~	5730)		
"	(	5945	~	6425)		

4	形式	単一型 (V) 1/4 λ (グラウンドプレーン)
5	入力インピーダンス	50 Ω
6	定在波比	2.5 : 1 以下 (同調周波数において)
7	アンテナ利得	別紙 参照
8	放射パターン特性	別紙 参照
9	接続端子	SMA-P 型
10	寸法	8.0x4.8x15.2cm (ケーブル含まず)
11	質量 (ケーブル含まず)	約 50g
12	取付け方法	ねじ止め



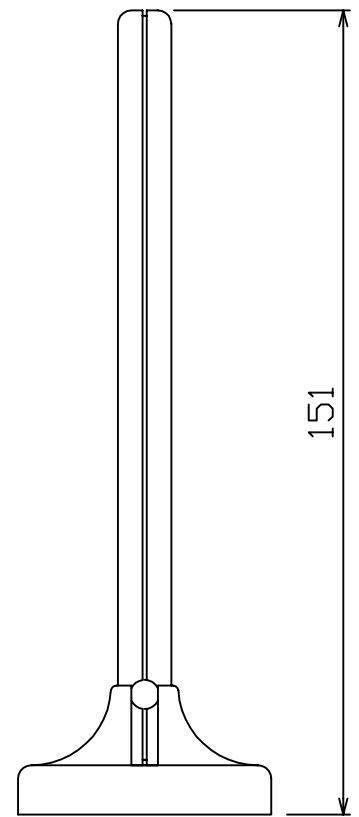
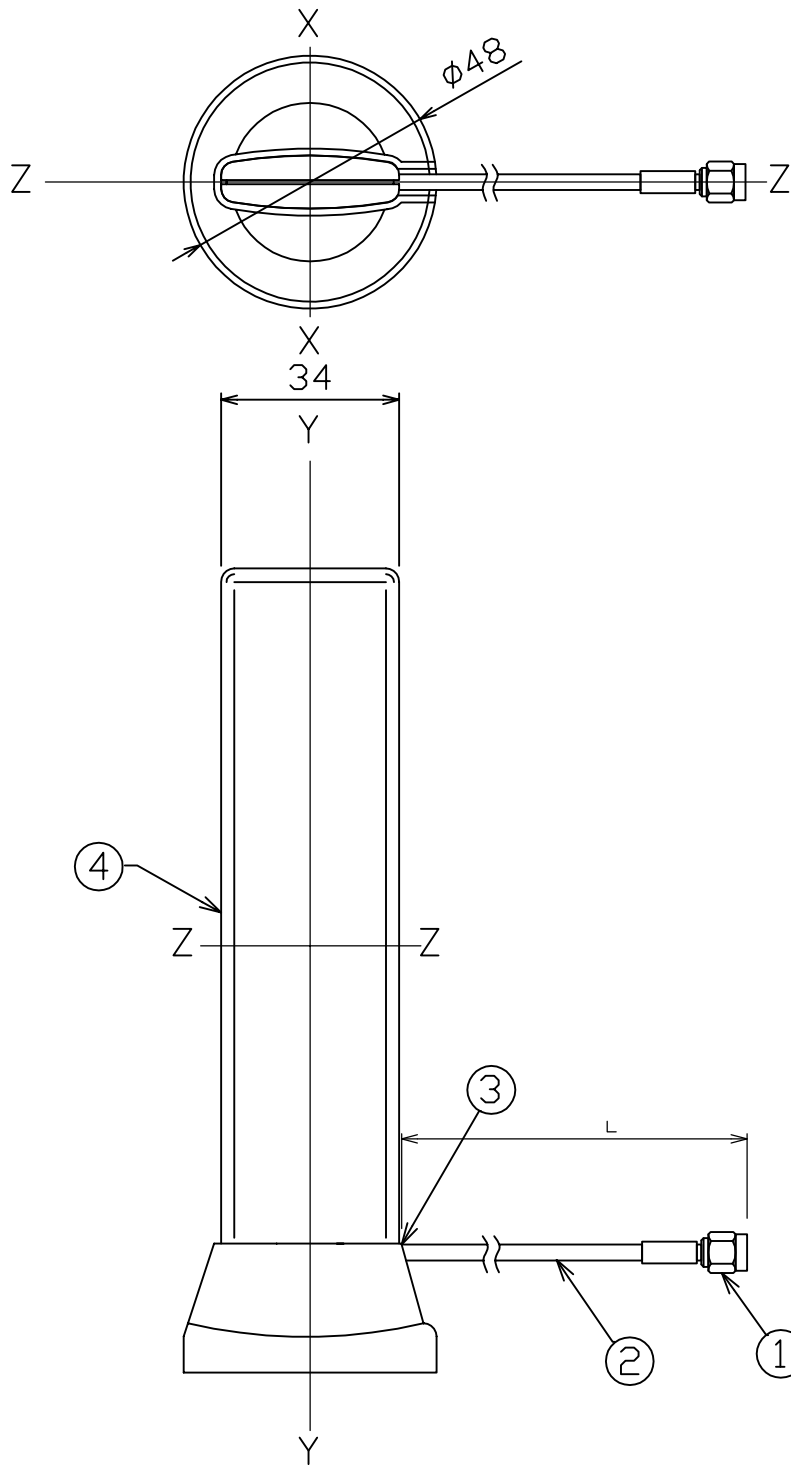
7				尺度	単位	SAGA DENSHI KOGYO CO.,LTD.	
6					mm		
5	ブラケット	Fe	三価クロメート	図番	図名 RTA825S6L-0.2-SMAJ		
4	アンテナカバー	ABS	黒艶消				
3	クレードル	ABS	黒艶消	2021110101			
2	同軸ケーブル	PVC	1.5DS-QFB 黒	小柳	小柳	FILE NAME RTA825L外觀図.dwg	
1	コネクタ	Bs	SMA-J	設計	製図	検図	
部番	部品名	材質	備考				

アンテナ仕様書

仕様項目		仕様内容
1	品名	マグネットアンテナ
2	型名	MG825S6L-*SMAP *は、ケーブル長を示す。5mの場合、RTA825S6L-5-SMAP

3	使用周波数	28(n28)	(	715	~	748)
		"	(	770	~	803)
		18(n18)	(	815	~	830)
		"	(	860	~	875)
		19(n5)	(	830	~	845)
		"	(	875	~	890)
		8(n8)	(	900	~	915)
		"	(	945	~	960)
		11(n74)	(	1427.9	~	1447.9)
		21(n74)	(	1447.9	~	1462.9)
		11(n74)	(	1475.9	~	1495.9)
		21(n74)	(	1495.9	~	1510.9)
		GPS	(	1575.42)	
		3(n3)	(	1710	~	1725)
		"	(	1730	~	1784.9)
		"	(	1805	~	1865)
		"	(	1859.9	~	1879.9)
		1(n1)	(	1920	~	1980)
		"	(	2110	~	2170)
		n40	(	2330	~	2370)
		Wifi	(	2401	~	2497)
		n41	(	2545	~	2645)
		42(n78)	(	3400	~	3600)
		n77,n78	(	3600	~	4000)
		"	(	4000	~	4100)
		n79	(	4500	~	4900)
Wifi	(	5170	~	5330)		
"	(	5490	~	5730)		
"	(	5945	~	6425)		

4	形式	単一型 (V) 1/4 λ (グラウンドプレーン)
5	入力インピーダンス	50 Ω
6	定在波比	2.5 : 1 以下 (同調周波数において)
7	アンテナ利得	別紙 参照
8	放射パターン特性	別紙 参照
9	接続端子	SMA-P 型
10	寸法	寸法 4.8x4.8x15.2cm (ケーブル含まず)
11	質量 (ケーブル含まず)	約 100g
12	取付け方法	マグネット吸着



L
 ****mm±3%

尺度	単位 mm	SAGA DENSHI KOGYO CO.,LTD.	
図番 2022013105	図名 MG827S6L-* -SMAP 外觀図	FILE NAME 827S6L外觀図.dwg	
新宅	小柳	設計	製図 検図

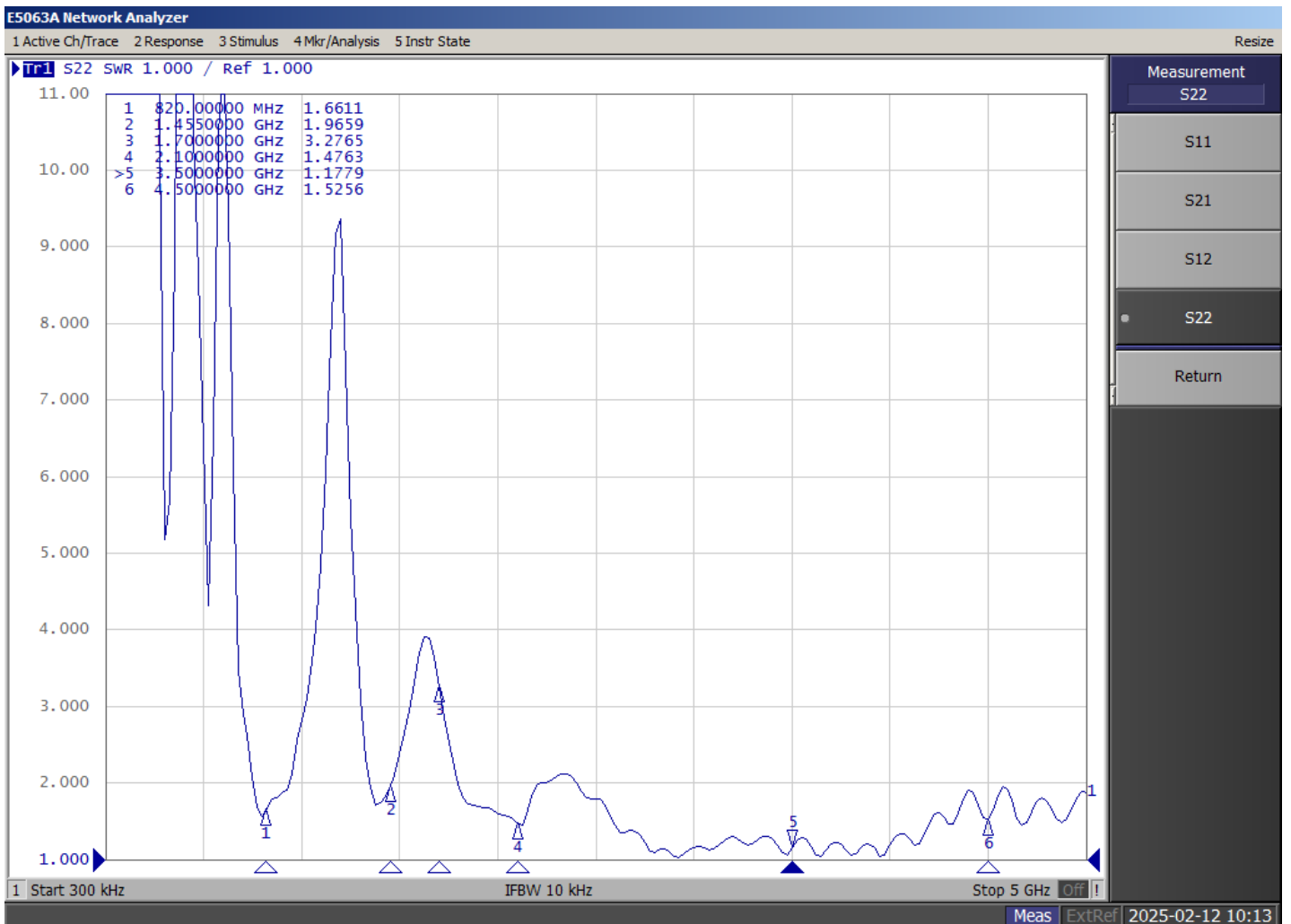
5	マグネット		
4	アンテナレドーム	ABS	黒
3	グロメット	NPE	黒
2	1.5DS-QFB (又は相当品)	PVC	黒
1	SMA-P型	Bs	メッキ仕上げ
部番	部品名	材質	備考



評価情報	評価アンテナ	825S6	評価日時	令和7年2月14日
	評価場所	公益財団法人 福岡県産業・科学技術振興財団 社会システム実証センター（福岡県糸島市）		
評価状況	<p>評価内容</p> <p>825S6（以下被評価アンテナ）の放射パターンおよび最大放射方向の利得をマルチアクシスポジショニングシステムにより測定。</p> <p>被評価アンテナケーブル長 0.4m(露出長 0.35m)・SMAP コネクター付き</p> <p>注：RTA825S6L と MG825S6L は取付け方法が異なるのみで、電気的特性は 825S6 と同一</p>			
	<p>【測定周波数】(MHz)</p> <p>715、731.5、748、770、786.5</p> <p>803、815、830、845、860、875、890</p> <p>900、907.5、915、945、952.5、960</p> <p>1427.9、1445.4、1462.9、1475.9、1493.4</p> <p>1510.9、1575.42</p> <p>1710、1747.45、1784.9</p> <p>1805、1842.45、1879.9</p> <p>1920、1950、1980</p> <p>2110、2140、2170</p> <p>2330、2350、2370</p> <p>2401、2449、2497</p> <p>2545、2595、2645</p> <p>3400、3500、3600、3850</p> <p>4100、4500、4550、4600、4750、4900</p> <p>5170、5250、5330、5490、5610、5730、5945</p> <p>ケーブル損失データを元に各ケーブル長におけるアンテナ利得を算出</p> <p>評価結果</p> <p>利得およびSWR：別紙1</p> <p>放射パターン：別紙2</p>			

1. 一般事項	
1-1 適用範囲	この規格は、825S6 アンテナシリーズ (RTA825S6L- * -SMAP、MG825S6L- * -SMAP、825S6L- * -SMAP) の機械的性能および、電気的性能について適用する。
2. 外観・寸法	
2-1 外観	外観は裸眼で約 30cm 離し、機能上有害な錆、割れ、傷等がない事とする。
2-2 寸法	別紙外観図参照
3. 機械的性能	
3-1 塩水噴霧試験	JIS Z2371 の中性塩水噴霧試験 72 時間に準拠。電気的特性と機械的特性に異常を認めない
3-2 ケーブル引張強度	1.5DS-QFB(又は相当品)に 98N の静荷重を加えてケーブルが破断しないこと。但し、コネクタとアンテナの接続部を除く。
3-3 使用・保存温度範囲	-30℃～85℃の温度範囲内にて外観に変形・割れがなく、電気的特性を満足すること。
4. 電気的性能	
4-1 試験状況	
4-2 V.S.W.R.	2.5 : 1 以下 (同調周波数において) (1.5DS-QFB ケーブル 1 m のとき)
4-3 入力インピーダンス	50 Ω
4-4 利得	3 dBi 以下
	ケーブル長制限 : 利得を 3dBi 以下とするために、1.5DS-QFB 1m 相当以上のロス (900MHz で 0.5dB) を有するケーブルを使用する

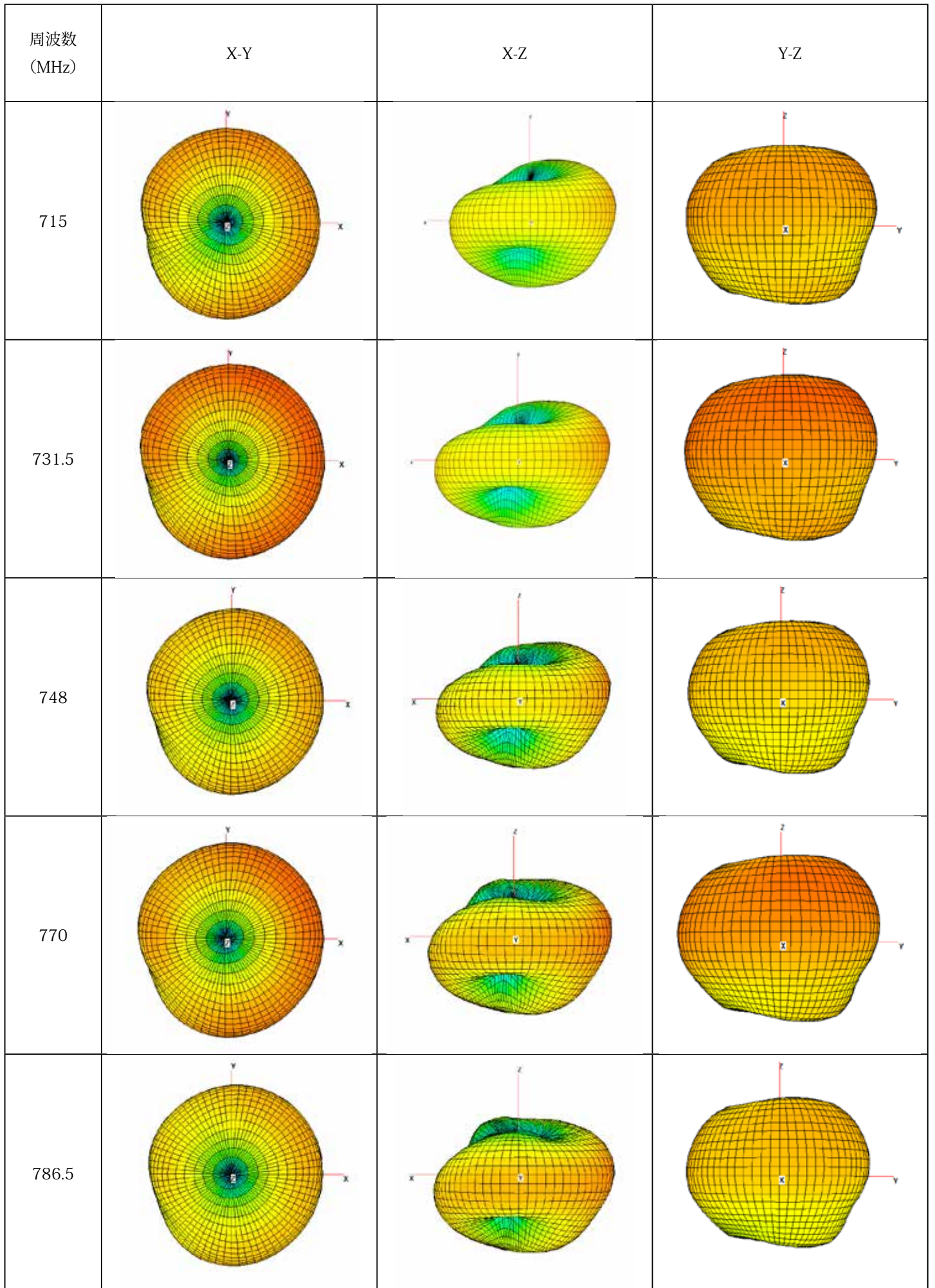
アンテナ V.S.W.R.

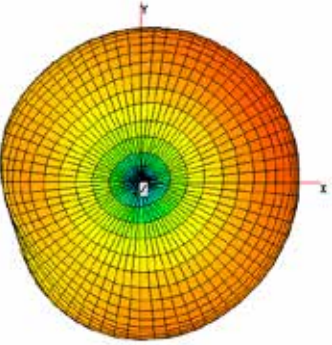
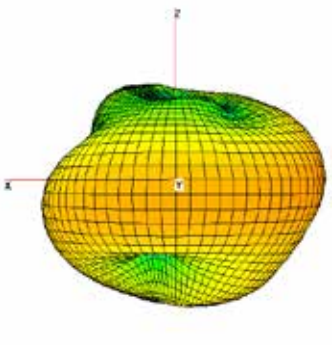
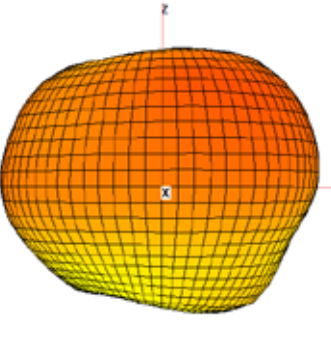
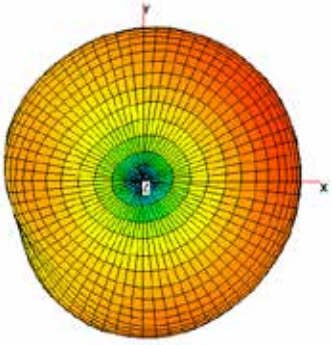
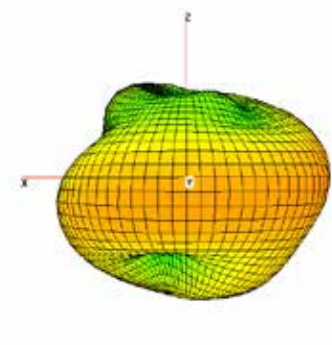
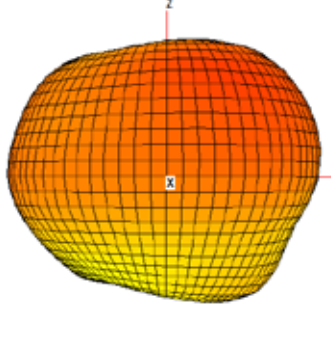
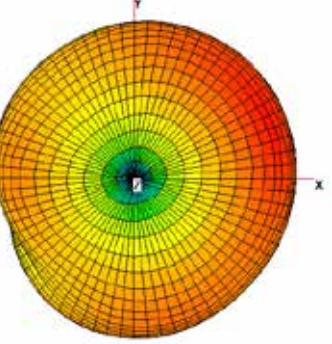
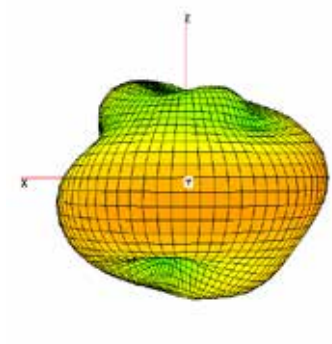
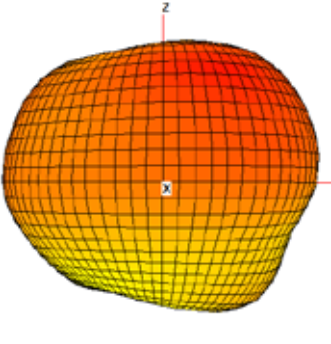
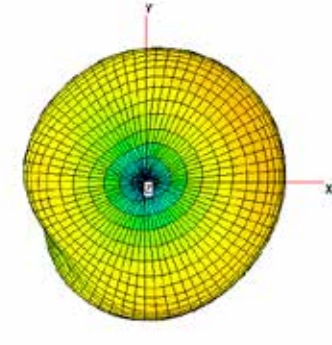
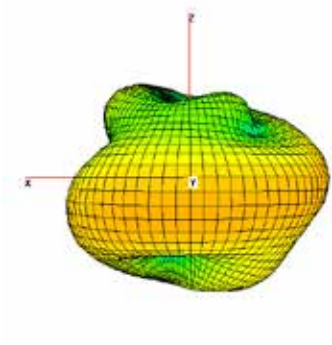
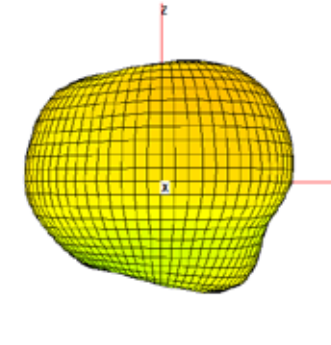
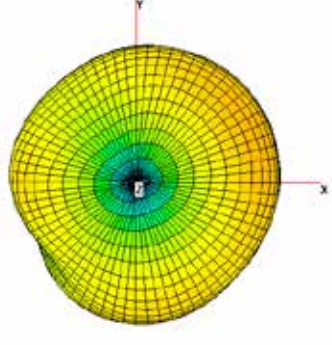
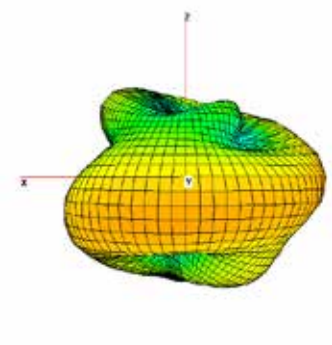
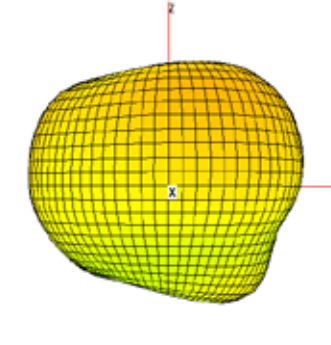


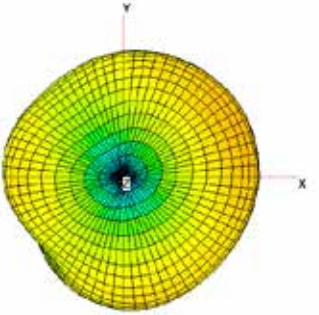
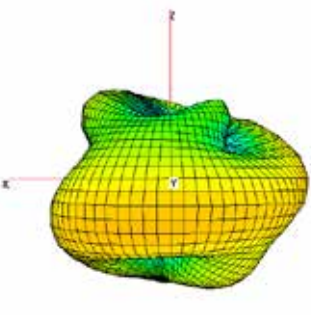
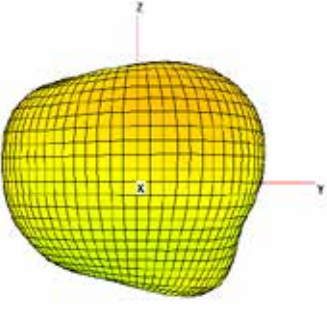
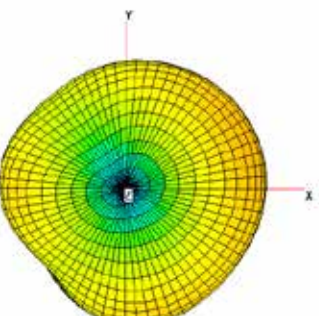
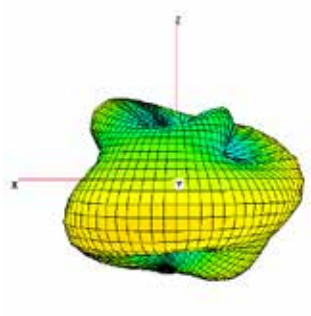
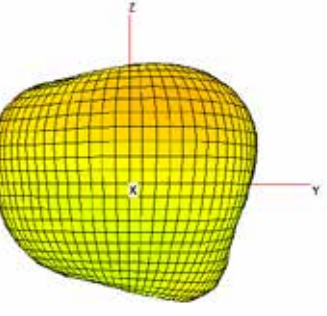
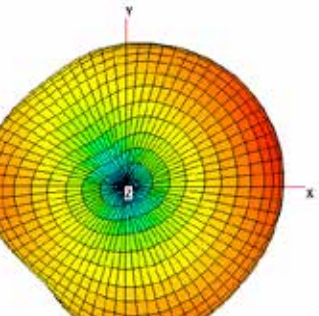
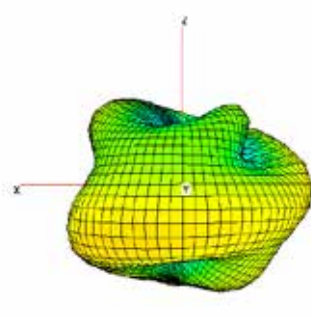
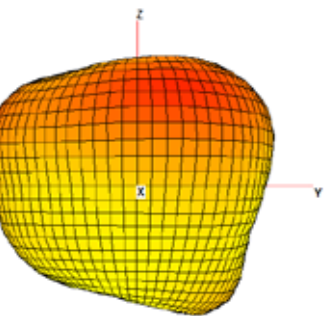
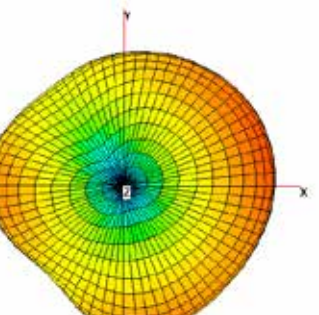
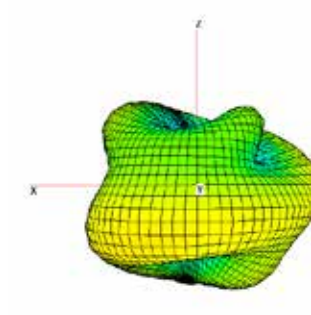
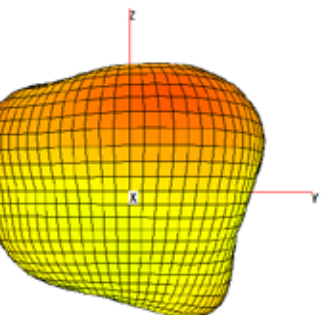
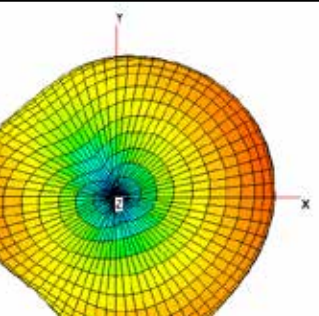
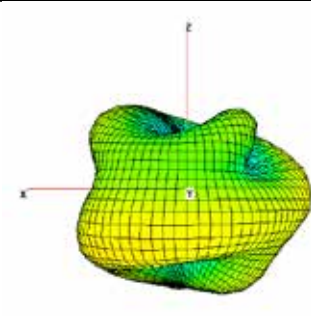
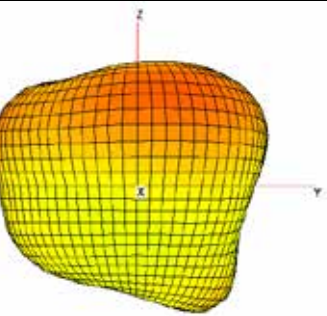
アンテナ利得

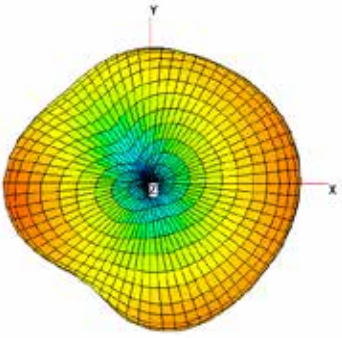
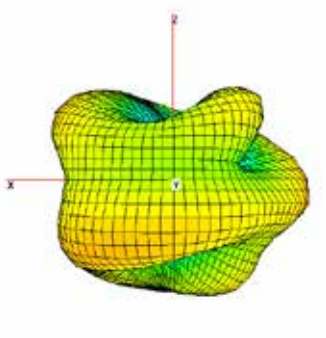
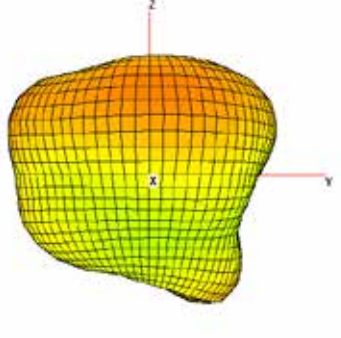
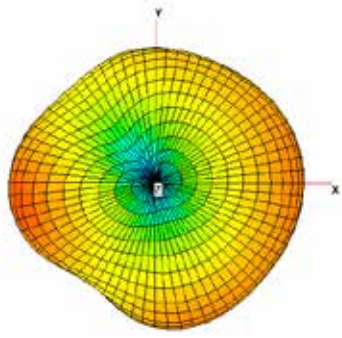
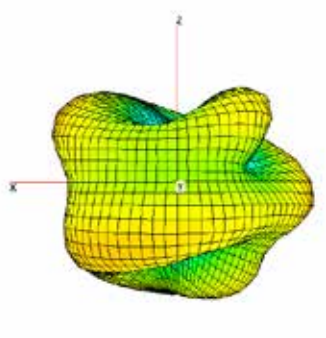
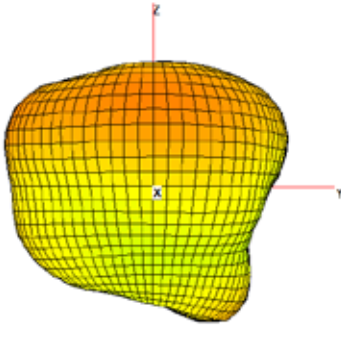
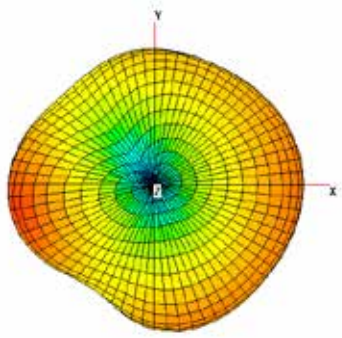
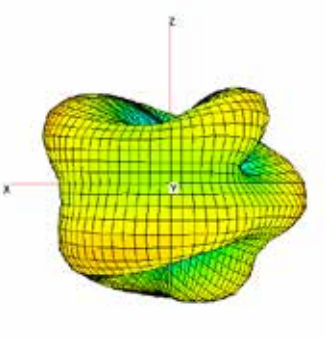
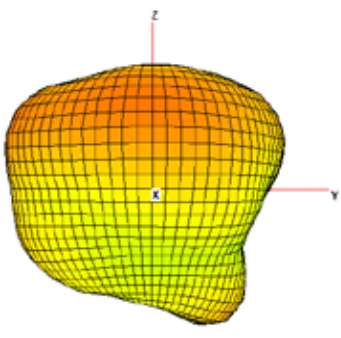
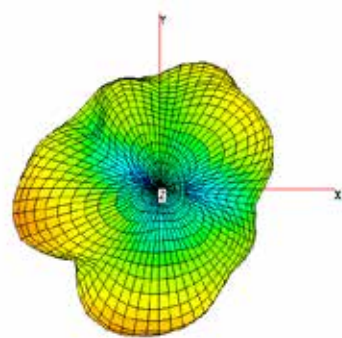
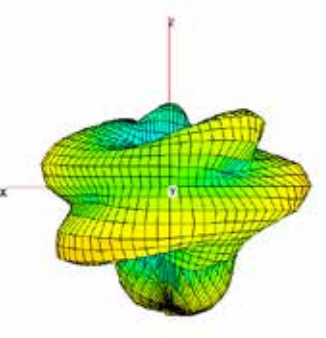
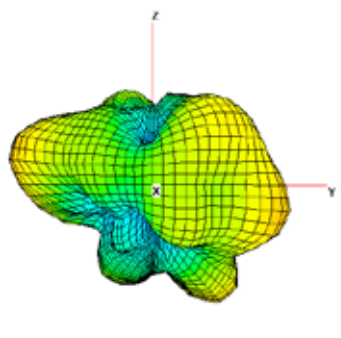
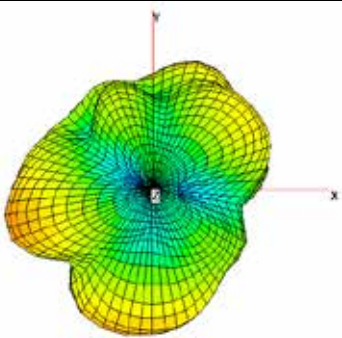
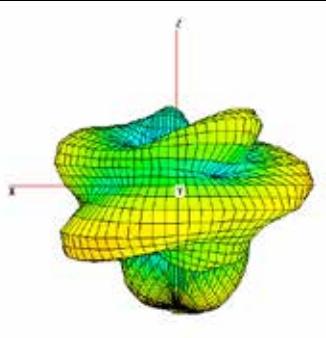
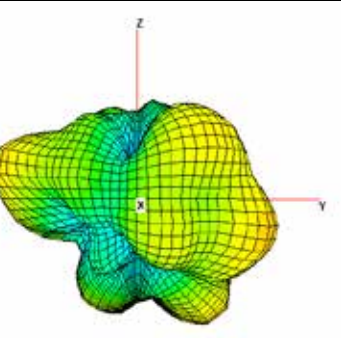
アンテナ 型番	RTA825S6L MG825S6L 825S6- *-SMAP *:ケーブル長 (m)					
	1m	2m	2.5m	3m	5m	10m
	利得 (dBi)					
715	2.18	1.63	1.36	1.09	-0.01	-2.76
731.5	2.57	2.02	1.75	1.48	0.39	-2.32
748	2.79	2.24	1.96	1.69	0.59	-2.15
770	3.37	2.81	2.53	2.25	1.14	-1.66
786.5	3.65	3.08	2.80	2.51	1.38	-1.46
803	3.06	2.49	2.20	1.91	0.76	-2.13
815	2.98	2.40	2.11	1.81	0.65	-2.27
830	2.91	2.32	2.03	1.73	0.56	-2.39
845	2.81	2.22	1.93	1.63	0.46	-2.48
860	2.81	2.22	1.93	1.64	0.46	-2.48
875	2.55	1.95	1.66	1.36	0.17	-2.81
890	2.38	1.78	1.47	1.17	-0.04	-3.08
900	2.09	1.47	1.17	0.86	-0.36	-3.42
907.5	1.84	1.23	0.92	0.61	-0.61	-3.68
915	1.76	1.14	0.83	0.52	-0.71	-3.80
945	1.37	0.73	0.42	0.10	-1.17	-4.34
952.5	1.30	0.66	0.34	0.02	-1.25	-4.44
960	1.41	0.78	0.47	0.15	-1.10	-4.25
1427.9	4.01	3.20	2.80	2.40	0.79	-3.24
1445.4	3.73	2.92	2.52	2.12	0.50	-3.54
1462.9	3.82	3.03	2.63	2.23	0.64	-3.33
1475.9	3.75	2.95	2.55	2.15	0.55	-3.45
1493.4	3.82	3.01	2.60	2.19	0.56	-3.52
1510.9	3.39	2.56	2.15	1.73	0.07	-4.07
1575.42	0.75	-0.09	-0.51	-0.94	-2.62	-6.83
1710	1.54	0.66	0.21	-0.23	-2.00	-6.43
1747.45	1.82	0.92	0.48	0.03	-1.77	-6.25
1784.9	2.60	1.69	1.24	0.79	-1.02	-5.55
1805	2.72	1.80	1.34	0.88	-0.96	-5.56
1842.45	3.22	2.30	1.84	1.38	-0.46	-5.06
1879.9	2.58	1.65	1.18	0.71	-1.17	-5.87
1920	3.07	2.12	1.65	1.17	-0.72	-5.46
1950	3.21	2.24	1.76	1.28	-0.64	-5.45
1980	3.46	2.49	2.01	1.52	-0.42	-5.27
2110	3.40	2.40	1.90	1.40	-0.59	-5.58
2140	3.12	2.12	1.62	1.12	-0.88	-5.88
2170	2.74	1.72	1.21	0.70	-1.34	-6.42
2330	2.69	1.62	1.08	0.55	-1.60	-6.97
2350	2.98	1.91	1.37	0.84	-1.30	-6.64
2370	3.11	2.03	1.49	0.95	-1.21	-6.61
2401	2.80	1.72	1.19	0.65	-1.50	-6.88
2449	2.91	1.80	1.25	0.70	-1.52	-7.04
2497	2.89	1.78	1.23	0.67	-1.54	-7.09
2545	3.20	2.06	1.49	0.93	-1.34	-7.02
2595	2.78	1.64	1.08	0.51	-1.76	-7.43
2645	3.14	2.01	1.44	0.87	-1.39	-7.06
3400	3.57	2.28	1.63	0.98	-1.61	-8.09
3500	3.43	2.08	1.41	0.73	-1.97	-8.71
3600	4.03	2.61	1.90	1.19	-1.66	-8.78
3850	4.50	3.07	2.35	1.64	-1.22	-8.38
4100	5.19	3.68	2.93	2.17	-0.84	-8.38
4500	4.74	3.13	2.32	1.51	-1.72	-9.79
4550	3.83	2.25	1.46	0.67	-2.50	-10.41
4600	4.07	2.46	1.66	0.86	-2.35	-10.37
4750	2.99	1.35	0.52	-0.30	-3.59	-11.81
4900	1.37	-0.30	-1.14	-1.98	-5.34	-13.74
5170	1.41	-0.34	-1.22	-2.09	-5.59	-14.34
5250	1.55	-0.26	-1.16	-2.06	-5.66	-14.67
5330	1.36	-0.41	-1.30	-2.18	-5.73	-14.59
5490	0.54	-1.30	-2.21	-3.13	-6.81	-15.99
5610	0.06	-1.82	-2.76	-3.70	-7.46	-16.86
5730	0.71	-1.23	-2.20	-3.17	-7.05	-16.76
5945	-0.44	-2.37	-3.33	-4.29	-8.13	-17.74

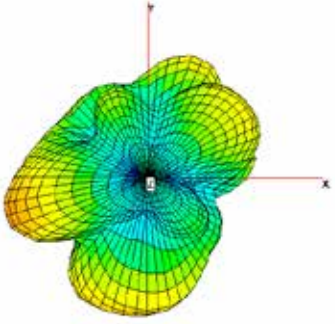
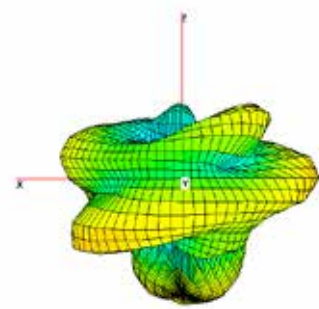
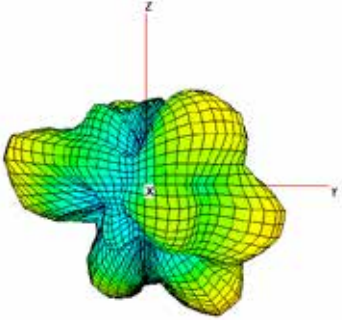
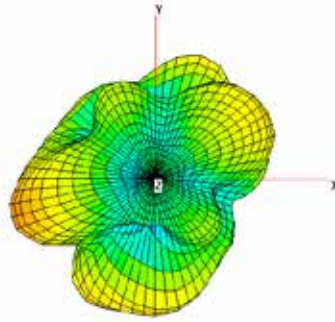
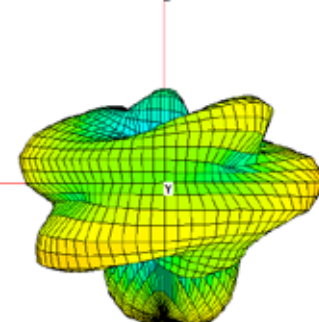
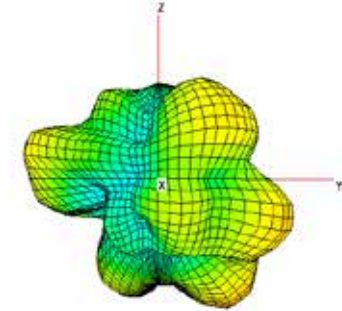
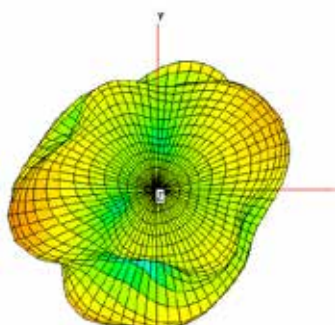
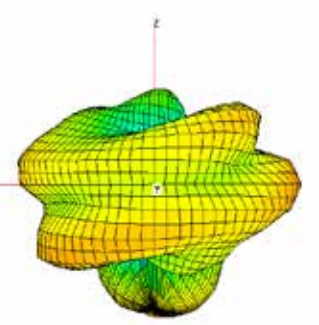
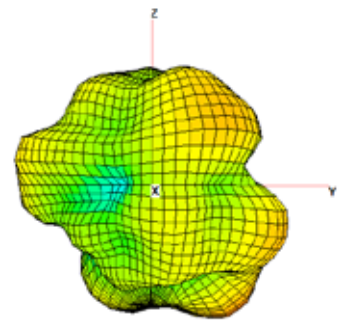
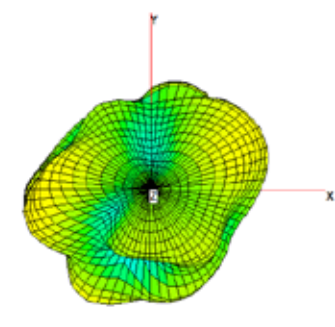
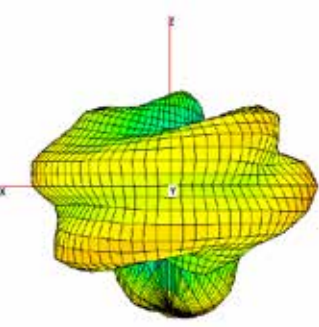
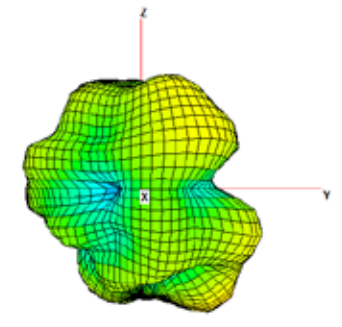
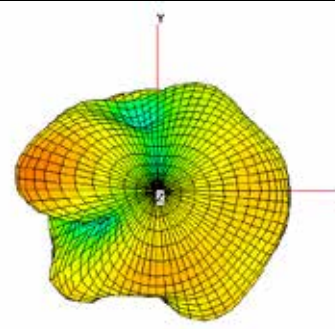
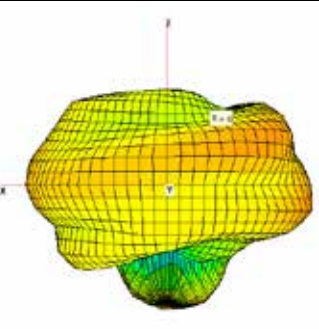
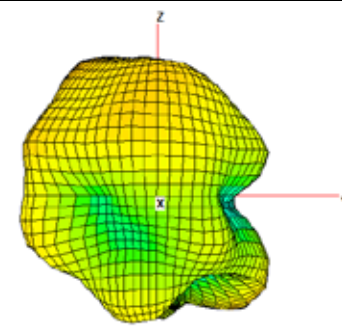
RTA825(MG825) 指向性特性

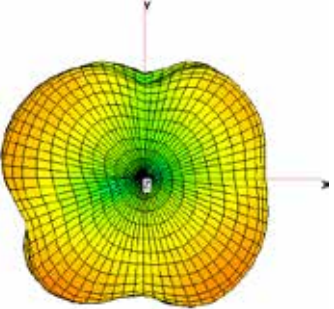
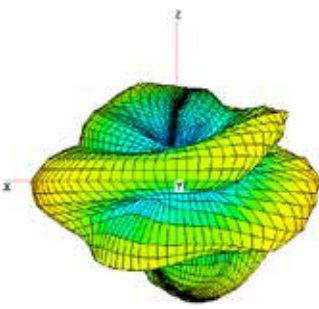
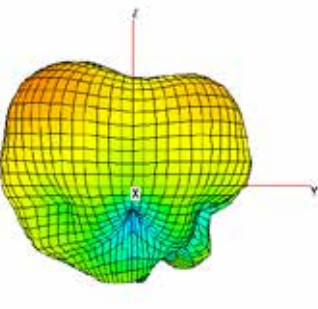
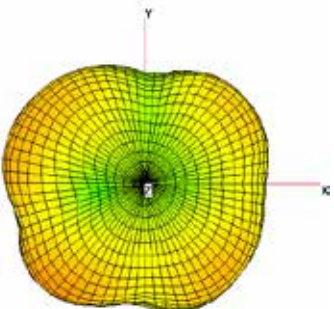
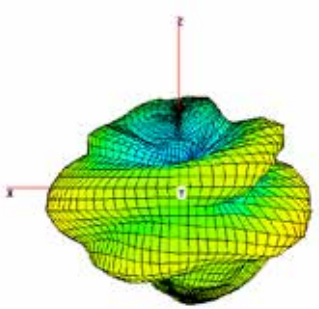
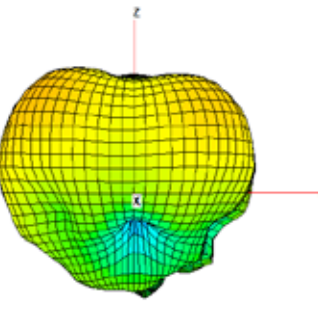
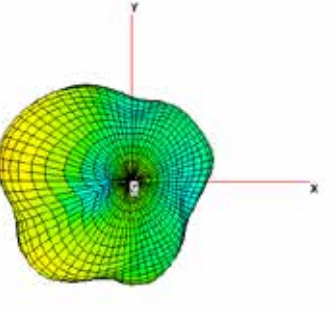
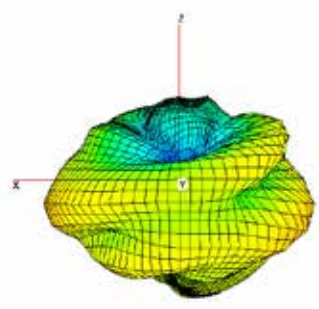
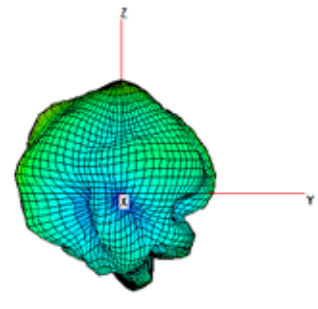
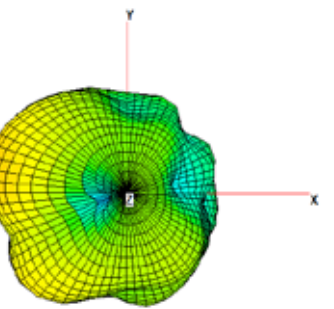
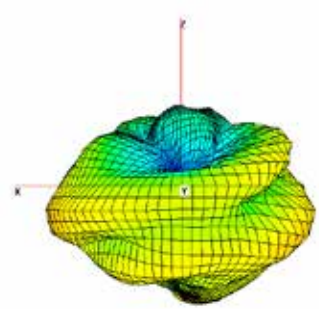
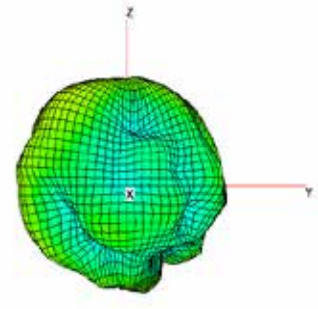
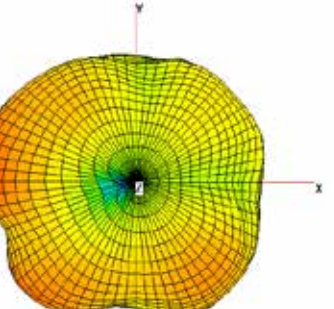
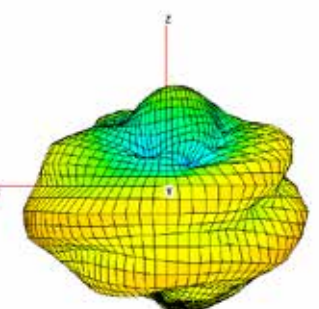
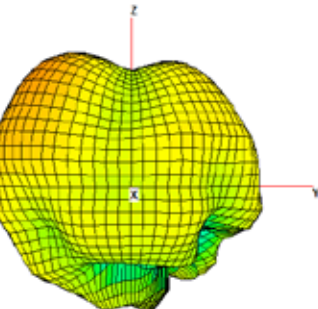


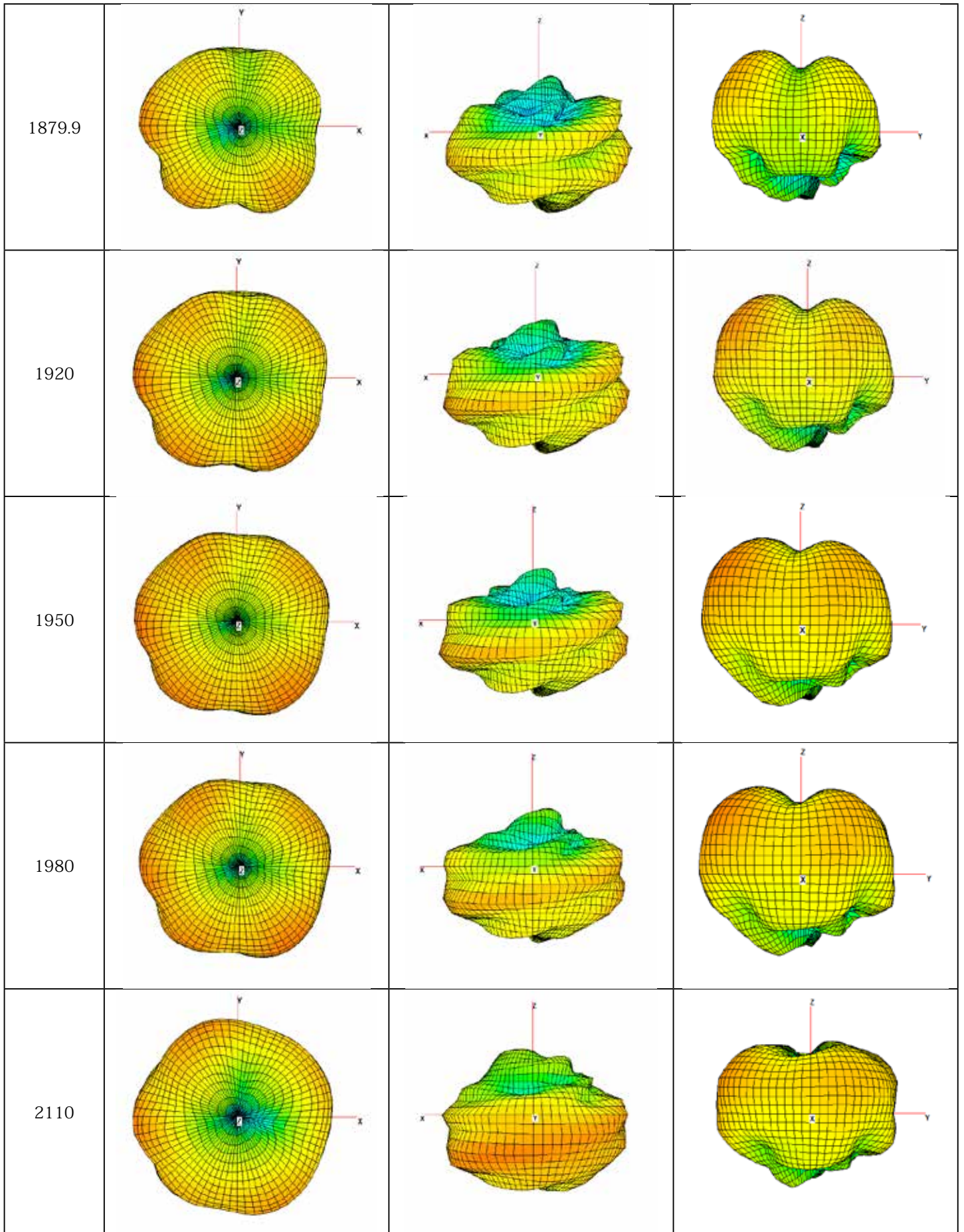
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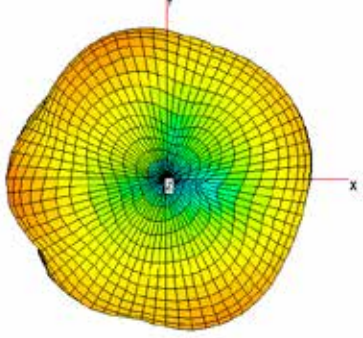
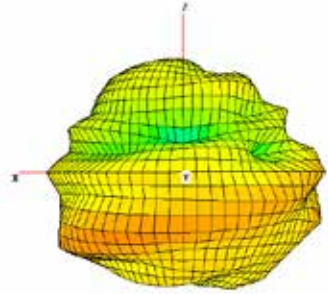
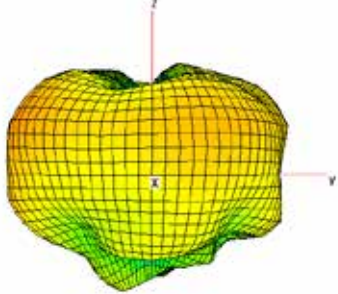
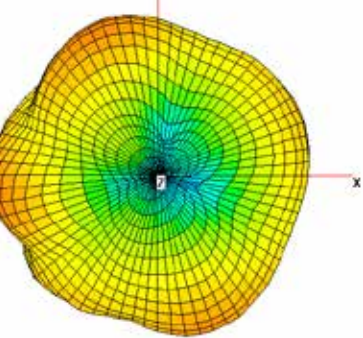
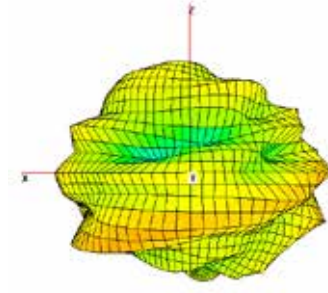
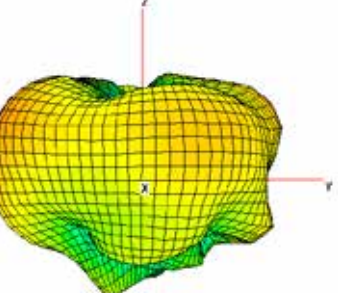
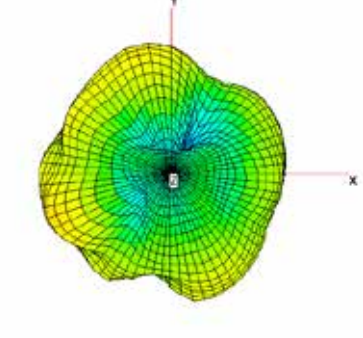
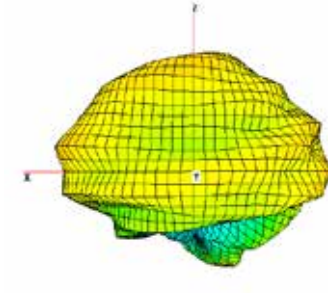
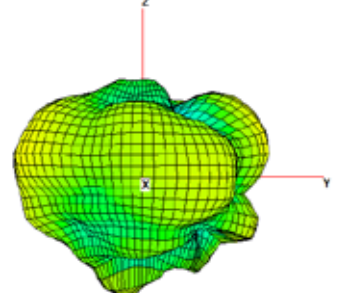
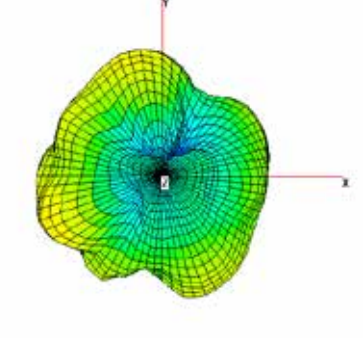
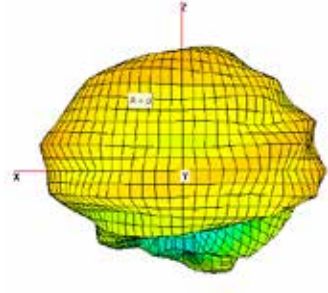
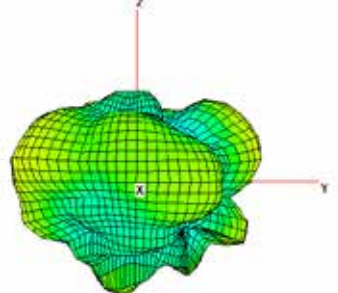
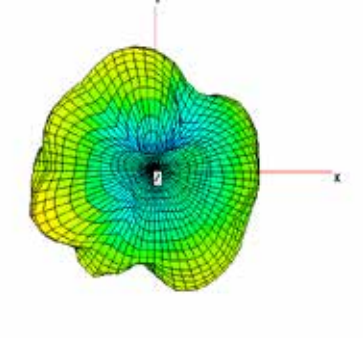
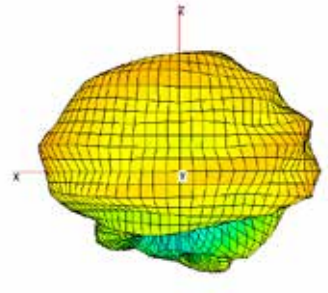
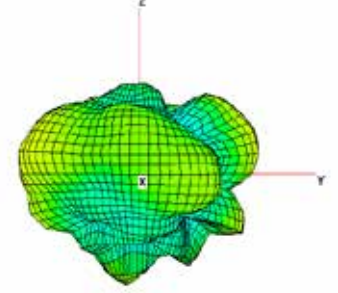
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907.5			
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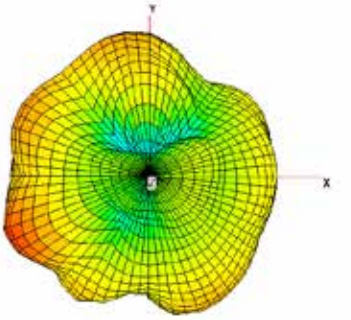
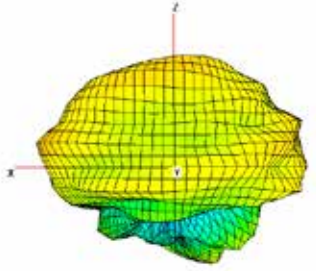
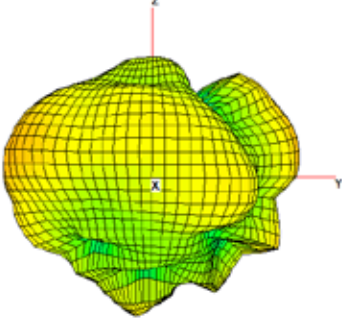
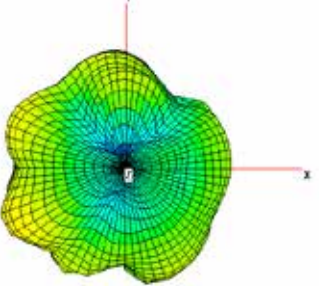
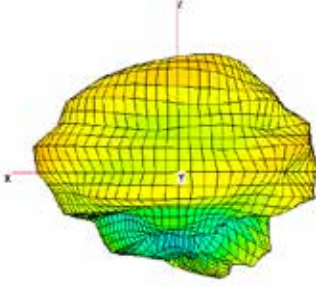
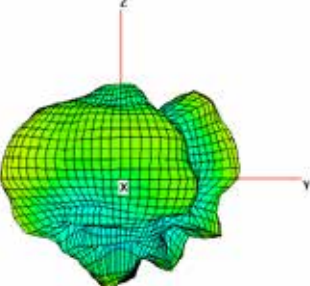
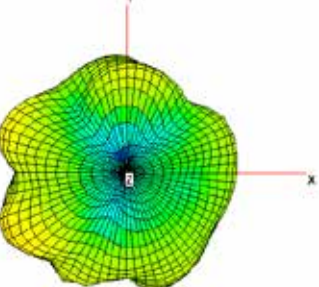
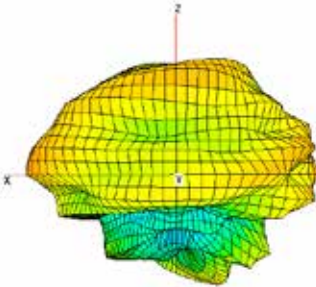
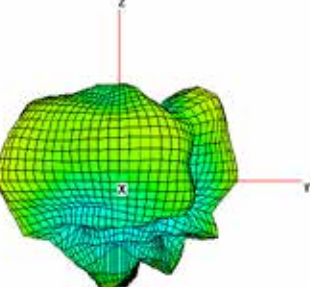
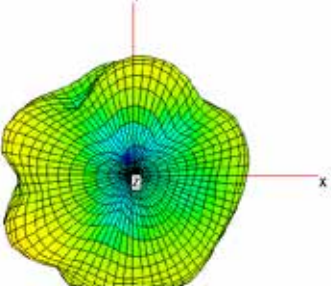
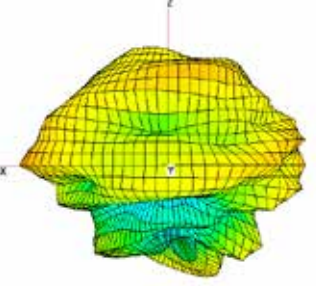
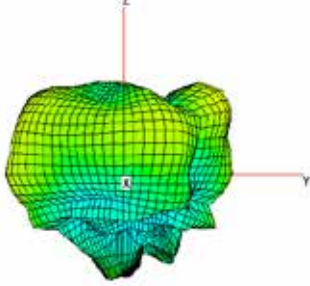
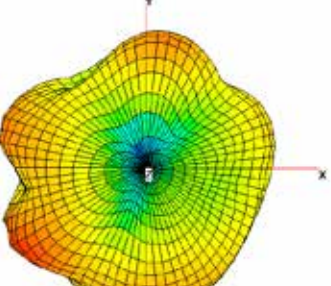
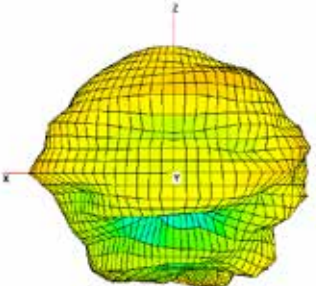
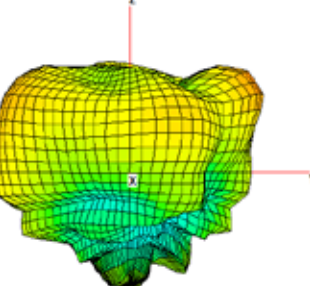
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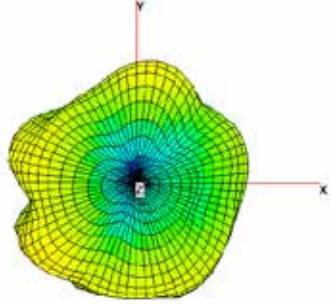
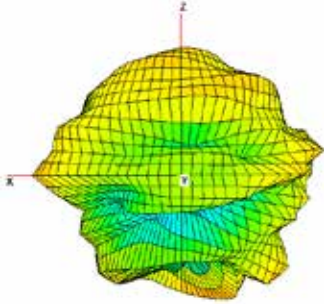
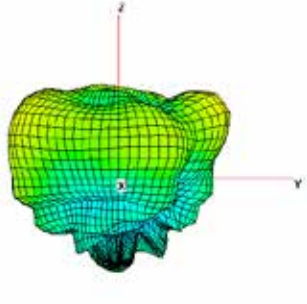
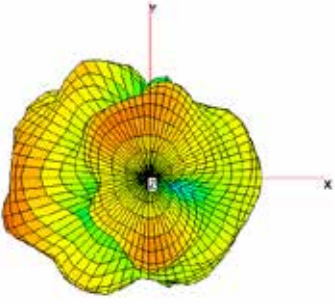
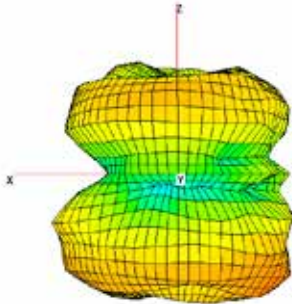
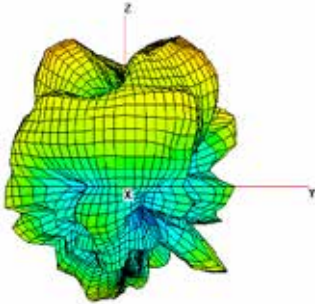
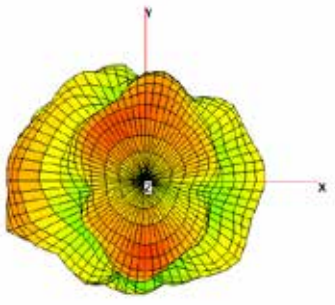
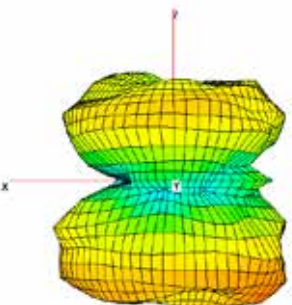
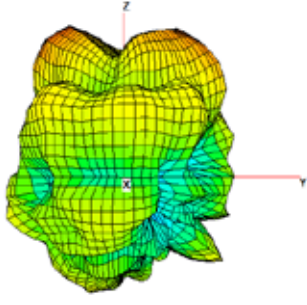
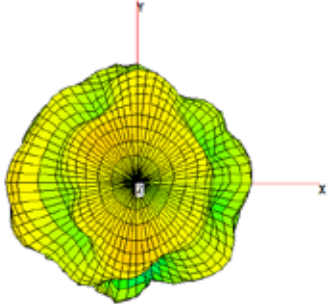
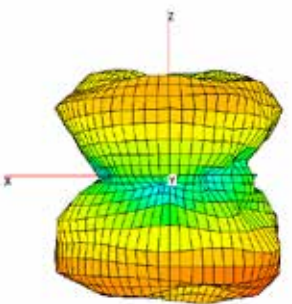
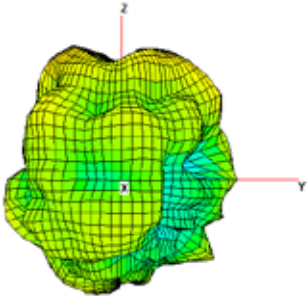
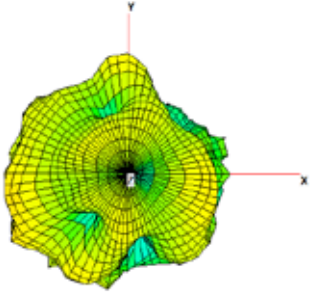
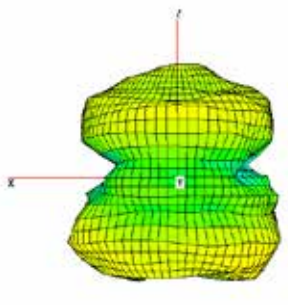
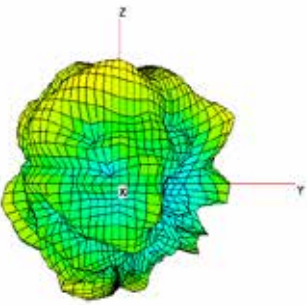
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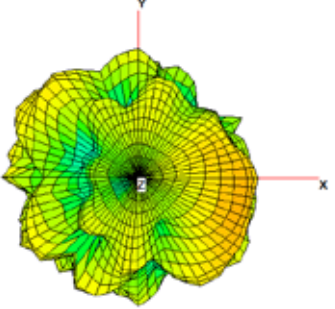
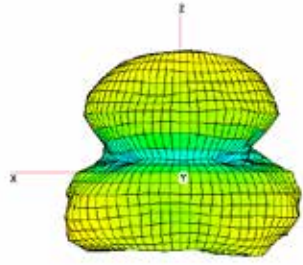
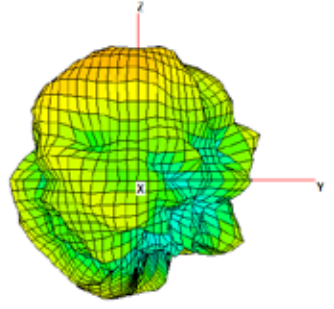
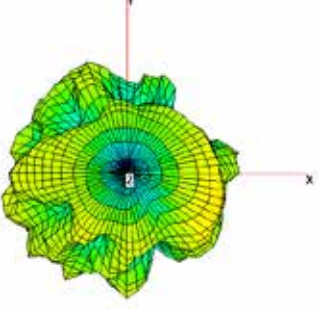
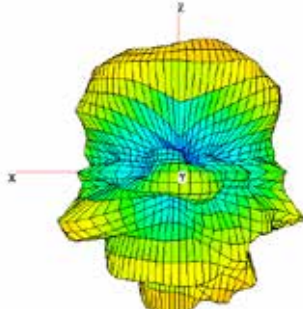
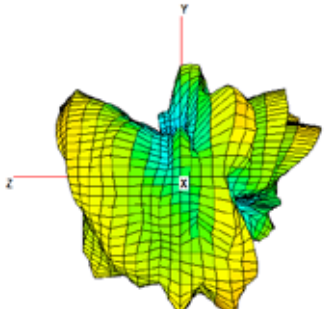
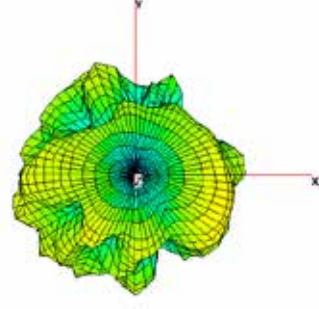
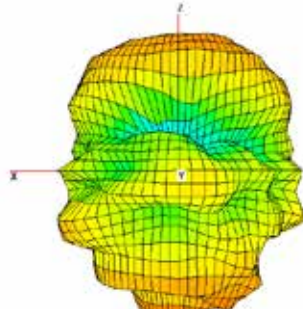
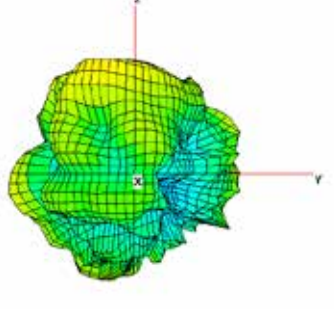
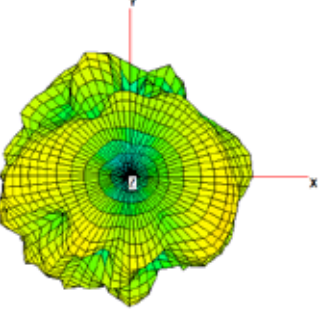
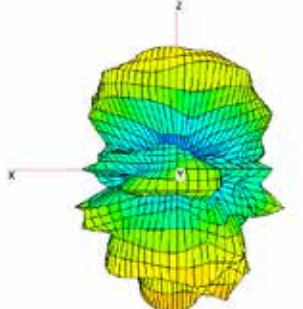
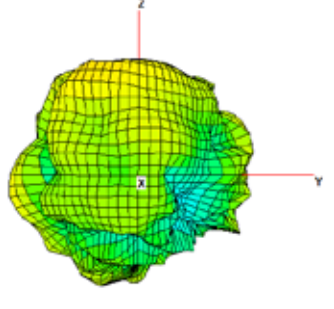
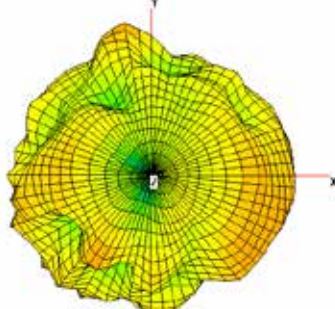
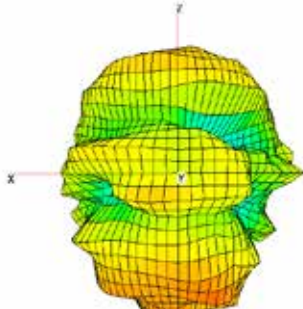
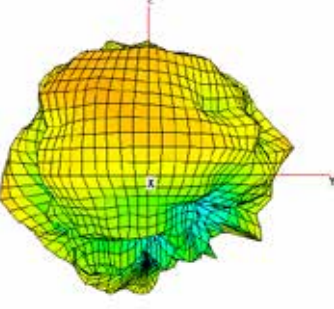
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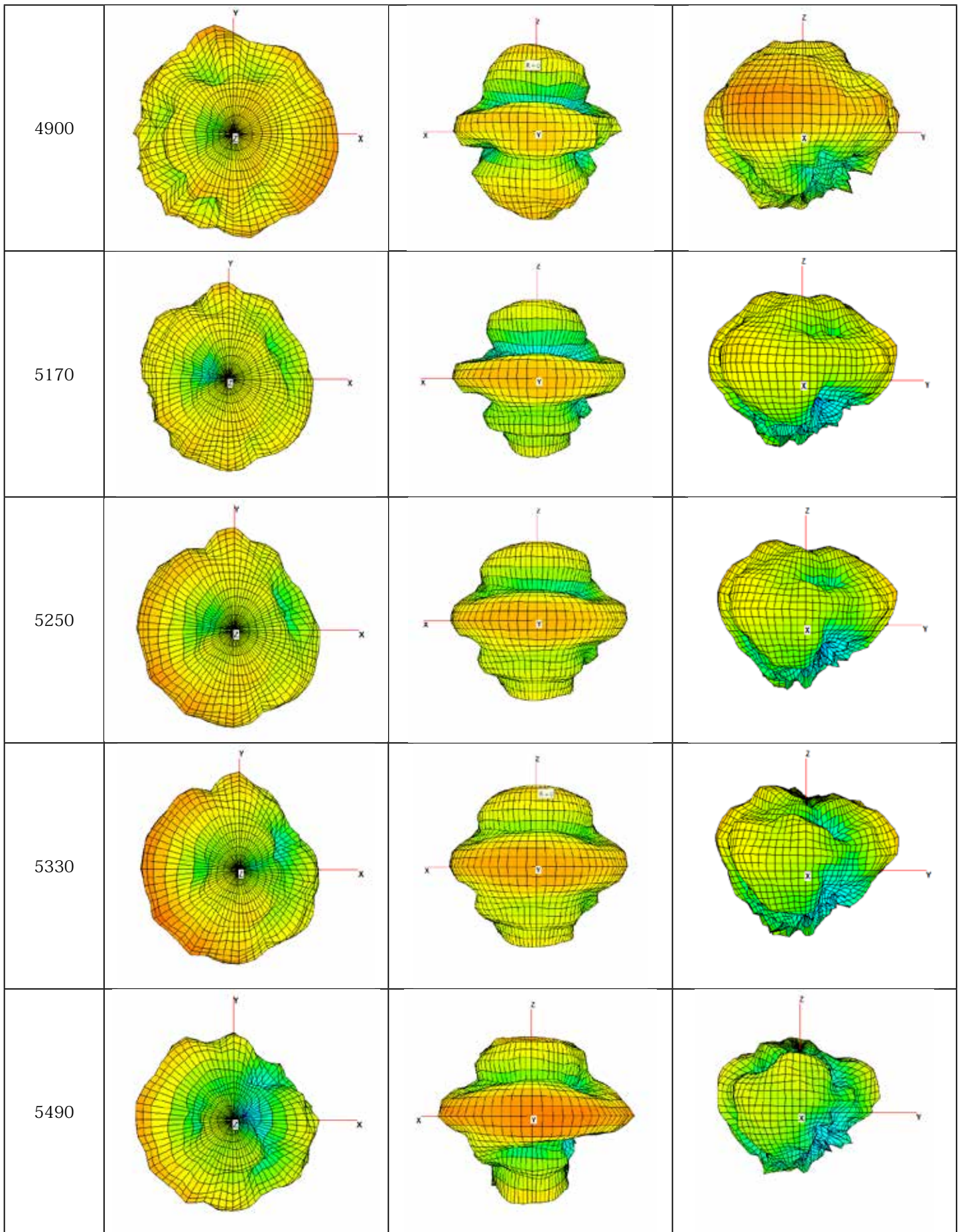


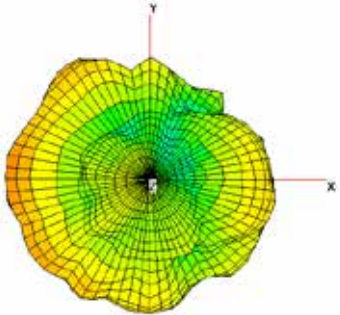
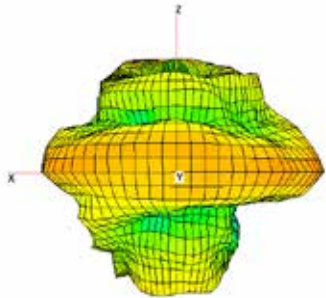
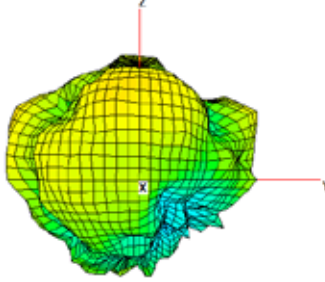
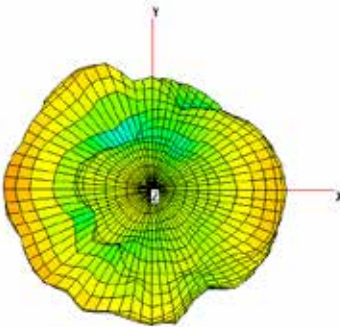
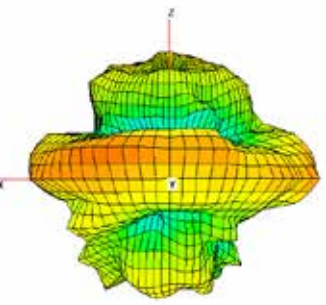
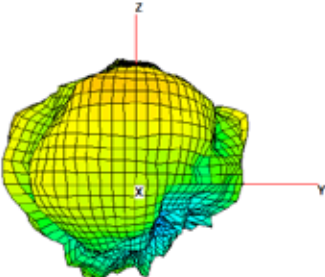
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