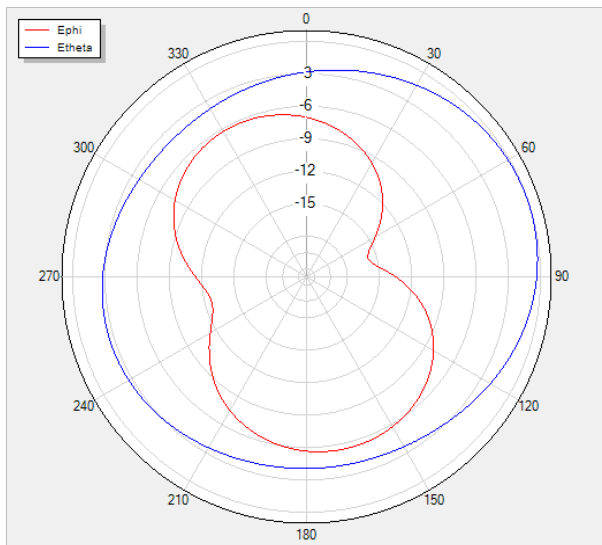
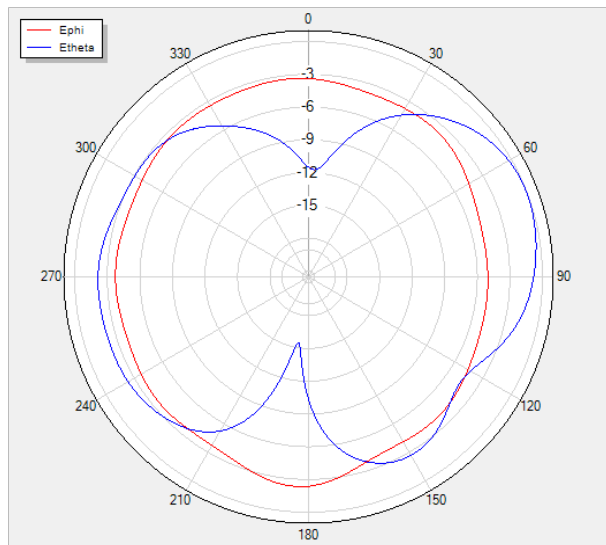


Manufacturer		Dongguan Zhongchi Electronic Technology Co.,Ltd							Product Number:ZCA0827-20B04-00X Size : 194.8*14.9mm											
ADD		Room 301, Building 2, No. 1, Jiaopu New Road, Changan Town, Dongguan City, Guangdong Province																		
Test data report																				
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Frequency (MHz)	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
Gain (dBi)	-16.93	-15.81	-15.04	-14.05	-13.19	-12.99	-12.56	-10.89	-9.36	-8.48	-7.36	-5.9	-4.7	-4.06	-2.95	-2.43	-2.32	-3.09	-3.63	-3.81
Efficiency (dB)	-20.48	-19.63	-18.73	-17.87	-16.66	-15.87	-14.74	-12.99	-11.94	-11.22	-10.29	-8.89	-7.74	-7.11	-6.49	-6.24	-6.35	-6.7	-7.13	-7.31
Efficiency (%)	0.9	1.09	1.34	1.63	2.16	2.59	3.36	5.02	6.39	7.55	9.35	12.91	16.81	19.45	22.42	23.74	23.2	21.37	19.35	18.59
Plane: Phi=0	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
Plane: Theta=90	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
Frequency ID	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Frequency (MHz)	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
Gain (dBi)	-3.83	-4.35	-4.41	-4.47	-4.6	-5.96	-5.25	-4.61	-4.57	-4.27	-3.56	-2.77	-2.46	-1.87	-1.31	-0.73	-0.55	-0.59	-0.93	-0.75
Efficiency (dB)	-7.31	-7.7	-7.8	-7.72	-7.84	-7.32	-7.11	-7.04	-7.05	-6.95	-6.23	-5.53	-5.57	-5.14	-4.62	-4.14	-4.03	-3.98	-3.47	-3.13
Efficiency (%)	18.56	16.99	16.61	16.91	16.44	18.56	19.46	19.77	19.73	20.19	23.85	28	27.76	30.61	34.48	38.55	39.53	40.04	44.93	48.65
Plane: Phi=0	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
Plane: Theta=90	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
Frequency ID	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Frequency (MHz)	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
Gain (dBi)	-0.87	-0.66	-0.49	-0.27	-0.34	1.38	1.67	1.78	2.04	2.01	1.81	1.98	1.76	1.54	1.39	1.41	1.43	1.56	1.64	1.72
Efficiency (dB)	-3.16	-2.97	-2.98	-2.88	-2.89	-2.9	-2.85	-2.84	-2.77	-2.74	-2.73	-2.62	-2.8	-3.16	-3.31	-3.31	-3.34	-3.41	-3.51	-3.56
Efficiency (%)	48.28	50.49	50.32	51.56	51.36	51.24	51.89	52.03	52.8	53.25	53.35	54.76	52.52	48.26	46.67	46.65	46.37	45.63	44.52	44.1
Plane: Phi=0	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
Plane: Theta=90	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
Frequency ID	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Frequency (MHz)	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
Gain (dBi)	1.69	1.46	1.57	1.6	1.18	0.73	0.6	0.84	0.82	0.82	0.81	0.63	0.36	0.46	0.81	1.14	1.01	1.01	1.3	1.57
Efficiency (dB)	-3.61	-3.87	-3.74	-3.64	-3.98	-4.43	-4.69	-4.68	-4.88	-5.09	-4.96	-5.15	-5.47	-5.27	-4.94	-4.69	-4.85	-5.05	-4.9	-4.69
Efficiency (%)	43.55	41.06	42.24	43.29	39.96	36.03	33.95	34.01	32.49	30.96	31.95	30.55	28.37	29.69	32.07	33.95	32.75	31.28	32.37	33.93
Plane: Phi=0	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
Plane: Theta=90	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
Frequency ID	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Frequency (MHz)	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
Gain (dBi)	1.88	2.12	2.14	2.47	2.61	2.62	2.82	2.86	1.58	1.68	1.92	2.13	2.37	2.58	2.73	2.72	2.59	2.61	2.8	3.1
Efficiency (dB)	-4.44	-4.24	-4.21	-3.98	-3.89	-3.92	-3.72	-3.58	-3.23	-3.16	-3.11	-2.86	-2.62	-2.45	-2.35	-2.35	-2.43	-2.38	-2.26	-2.06
Efficiency (%)	35.97	37.71	37.96	40.02	40.83	40.52	42.49	43.82	47.58	48.31	48.91	51.75	54.65	56.86	58.15	58.25	57.18	57.75	59.42	62.27
Plane: Phi=0	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
Plane: Theta=90	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
Frequency ID	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Frequency (MHz)	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
Gain (dBi)	3.41	3.55	3.58	3.52	3.85	3.85	3.54	3.5	4.35	4.41	4.45	4.63	4.58	4.76	4.64	4.37	4.18	3.85	3.88	3.88
Efficiency (dB)	-1.88	-1.72	-1.67	-1.82	-1.75	-1.7	-1.87	-1.92	-1.85	-1.86	-1.85	-1.79	-1.86	-1.8	-1.85	-2.02	-2.1	-2.36	-2.27	-2.14
Efficiency (%)	64.88	67.33	68.12	65.7	66.86	67.68	65.04	64.24	65.26	65.12	65.26	66.27	65.17	66.03	65.32	62.76	61.64	58.02	59.35	61.04

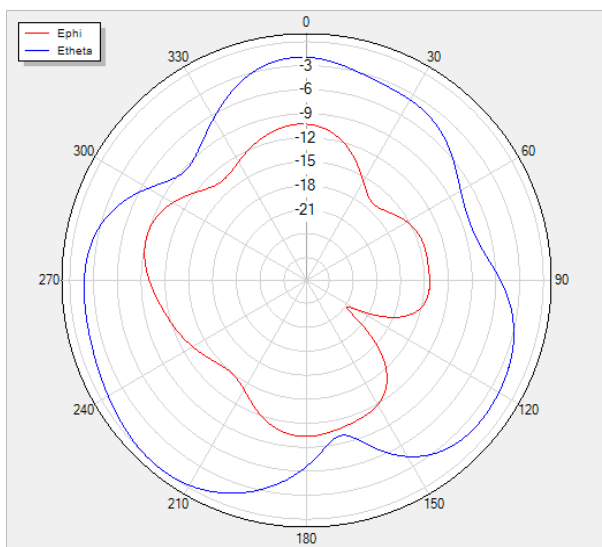
Theta=90 freq=600MHz



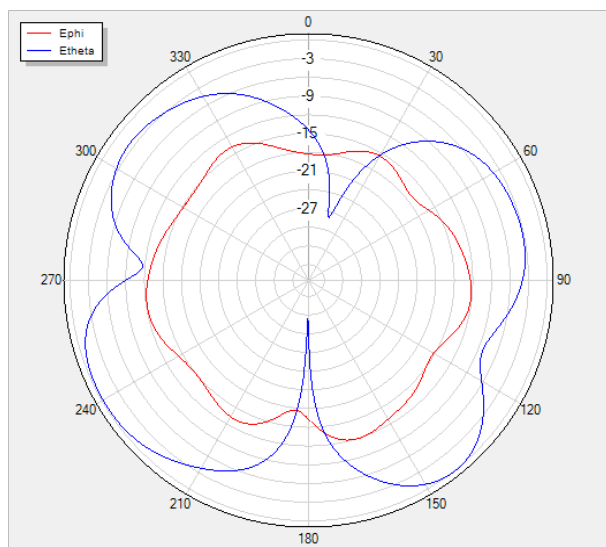
Phi=0 freq=600MHz



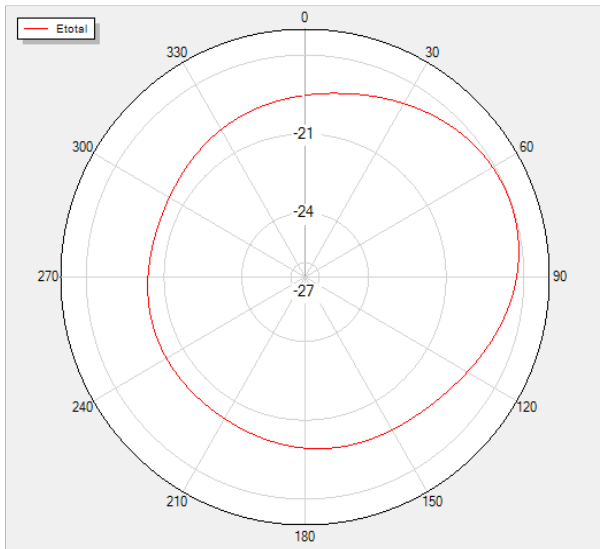
Theta=90 freq=2700MHz



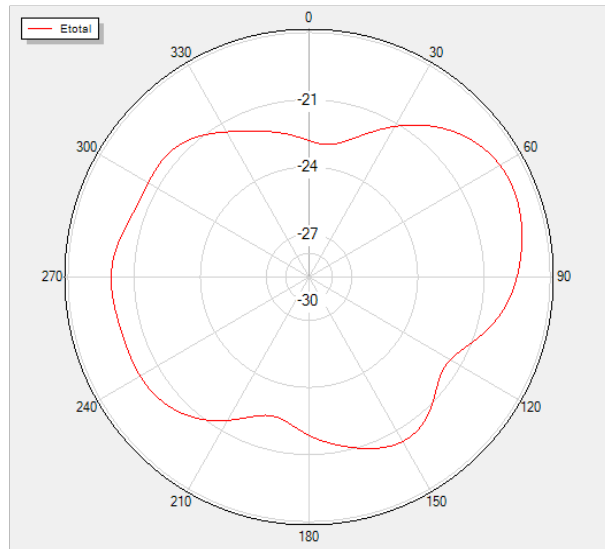
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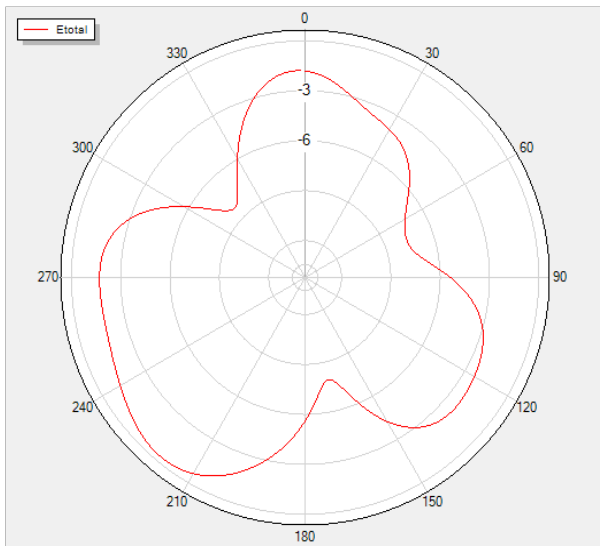
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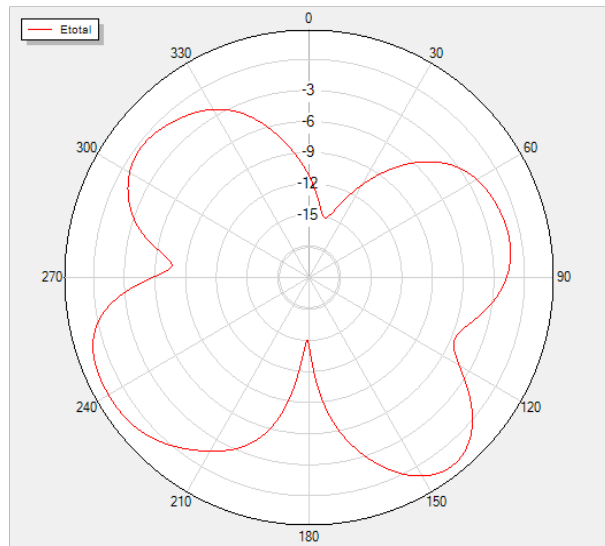
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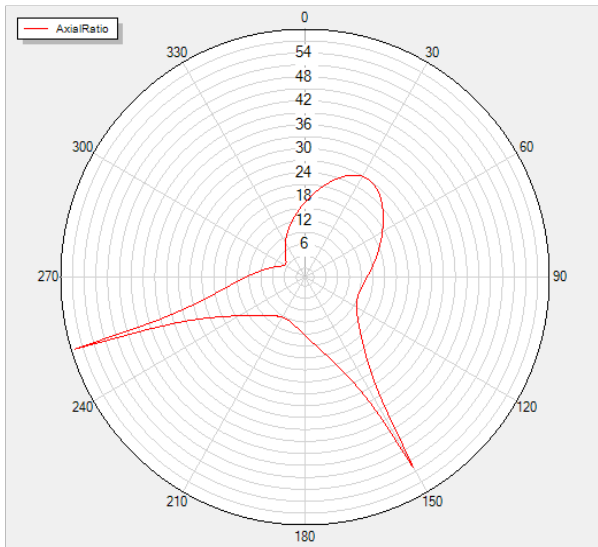
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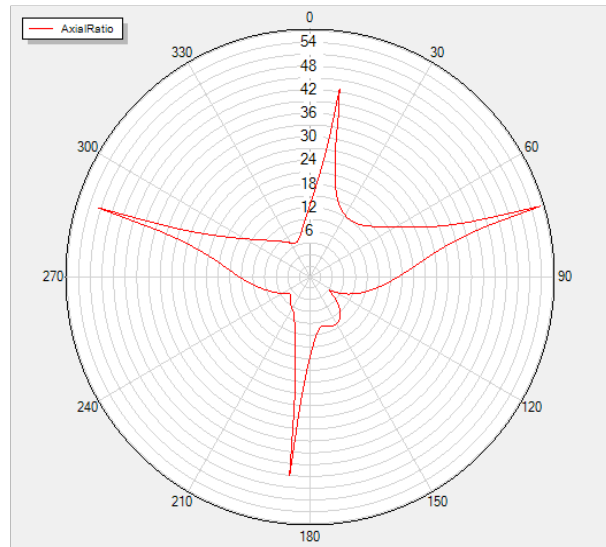
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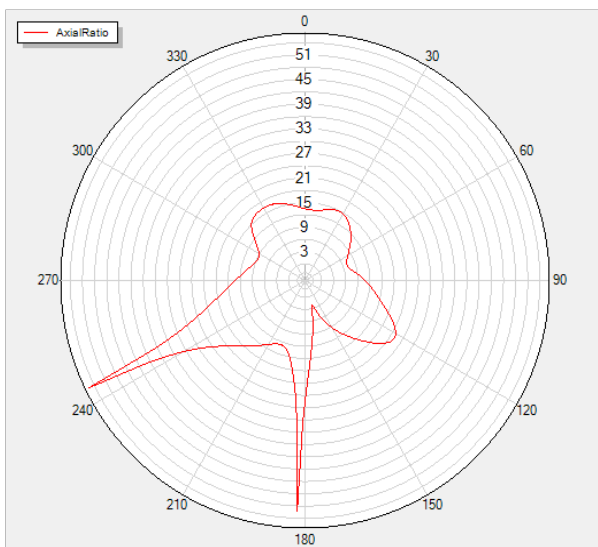
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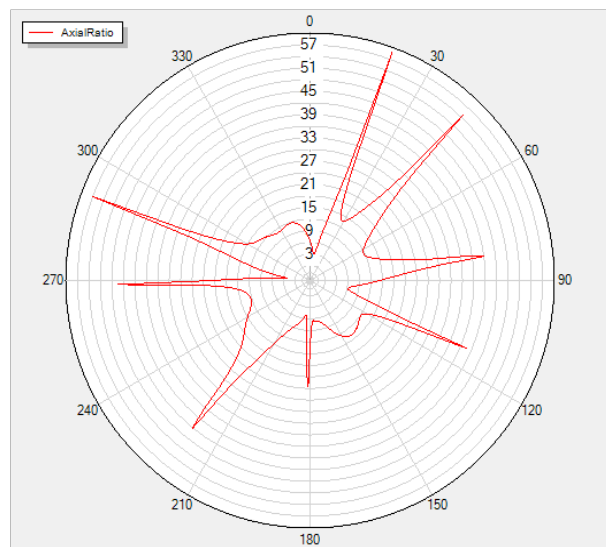
Phi=0 freq=600MHz



Theta=90 freq=2700MHz

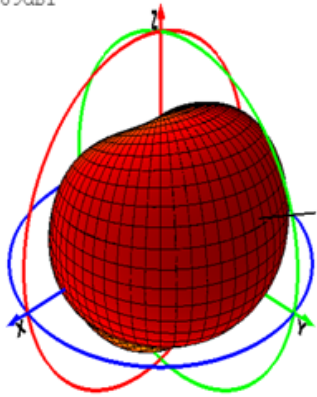


Phi=0 freq=2700MHz

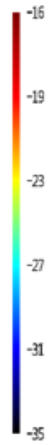
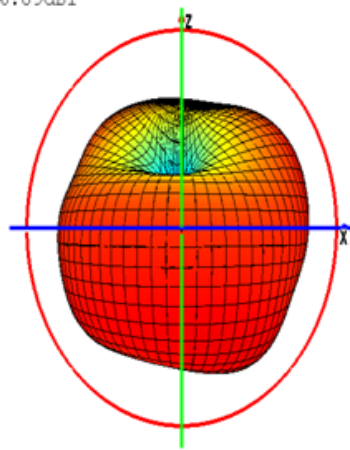


3D_Graphs

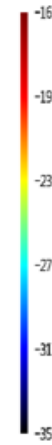
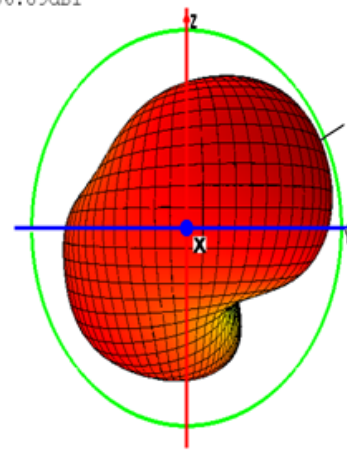
MAX:-16.93dBi
MIN:-36.89dBi



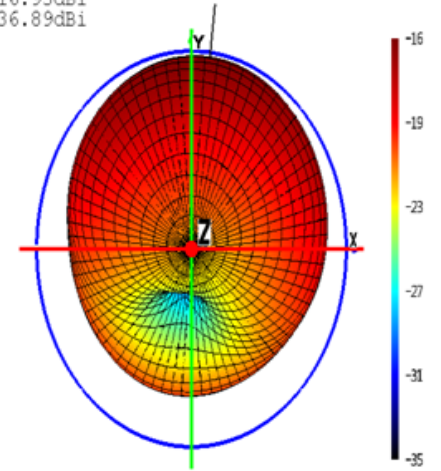
MAX:-16.93dBi
MIN:-36.89dBi



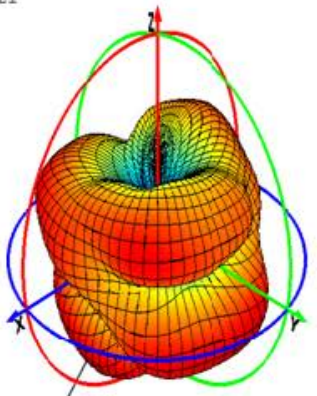
MAX:-16.93dBi
MIN:-36.89dBi



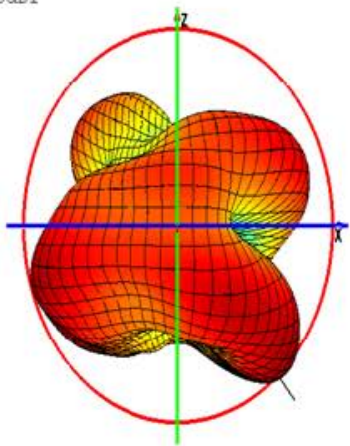
MAX:-16.93dBi
MIN:-36.89dBi



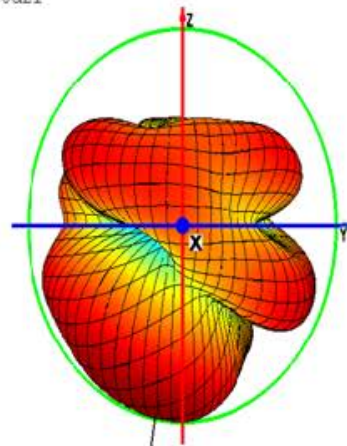
MAX:1.96dBi
MIN:-16dBi



MAX:1.96dBi
MIN:-16dBi



MAX:1.96dBi
MIN:-16dBi



MAX:1.96dBi
MIN:-16dBi

