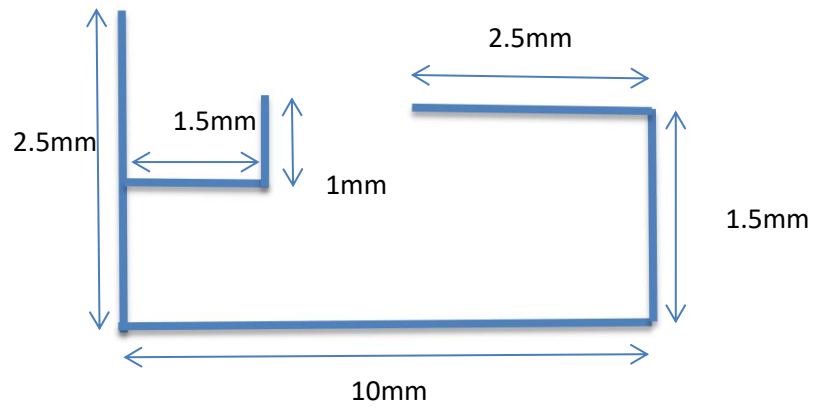


Frequency (MHz)	Directivity (dB)	Gain (dB)	Efficiency (dB)	Efficiency (%)
2400	6.9016	1.0007	-4.9009	32.3526
2405	6.9155	1.0317	-4.8837	32.4808
2410	6.8888	1.9819	-4.9069	32.308
2415	6.8543	1.9904	-4.8639	32.6296
2420	6.8996	1.1001	-4.7995	33.1171
2425	6.9358	1.1881	-4.7476	33.5149
2430	6.95	1.2658	-4.6842	34.0078
2435	6.99	1.21	-4.78	33.2658
2440	6.9813	1.1586	-4.8227	32.9406
2445	7.0234	1.2575	-4.7659	33.3742
2450	6.9933	1.3944	-4.5989	34.6826
2455	7.0178	1.4411	-4.5767	34.86
2460	6.9822	1.4605	-4.5217	35.3044
2465	6.9176	1.3949	-4.5227	35.2962
2470	6.9543	1.4243	-4.53	35.2374
2475	6.907	1.4163	-4.4907	35.5572
2480	6.9305	1.3072	-4.6233	34.4881
2485	6.9513	1.4023	-4.549	35.0831
2490	6.9341	1.3239	-4.6102	34.5921
2495	6.9383	1.2975	-4.6408	34.3493
2500	6.9658	1.2872	-4.6786	34.052



BW@Phi=0	BW@phi=90	BW@theta=90	Soundness@Theta=3	Soundness@Theta=6
34.2395	44.4908	90.4799	5.331	8.8341
34.2427	44.3176	91.2814	5.5017	9.0581
34.1583	51.4809	92.4333	5.6374	9.0271
34.1658	51.2452	93.5925	5.5918	8.6856
34.0621	51.0822	94.7024	6.0339	8.3453
33.9471	50.9114	95.7498	6.2155	7.8966
33.9417	50.8949	97.2911	6.3405	7.4174
33.8238	50.9594	98.5832	6.5221	7.1221
33.8253	51.0049	99.5135	6.2701	6.6721
33.7136	50.7258	100.7889	6.1017	6.4457
33.6187	51.0797	100.7789	5.8676	6.2706
33.5841	50.9143	100.2791	5.6477	6.1512
33.3875	51.1412	99.5115	5.4507	6.2082
33.3429	51.1914	99.2164	5.2003	6.2612
33.2044	50.9001	98.6464	4.9761	6.3361
33.0898	50.9033	98.388	4.5522	6.3069
33.0302	50.5138	98.6205	4.3921	6.3933
32.9533	50.0431	99.3268	4.0618	6.372
32.7363	50.1816	100.5203	3.7056	6.2301
32.5769	49.7689	102.2039	3.4492	6.183
32.4286	49.7328	103.8635	2.995	5.8111

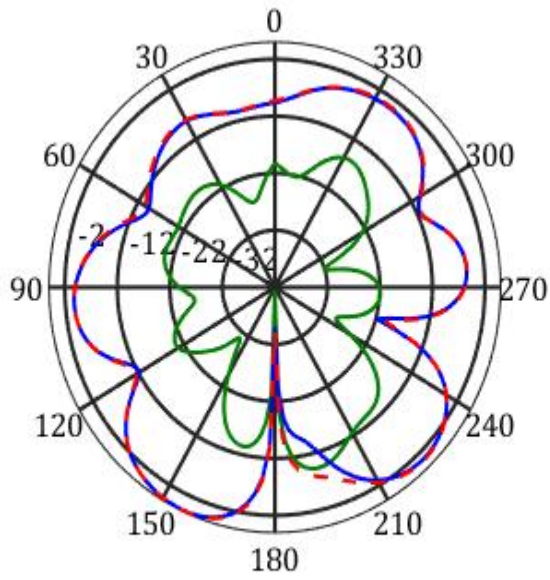
Roundness@Theta=90	Peak Gain@Phi(deg)	Peak Gain@Theta(deg)	Null@Phi(deg)	Null@Theta(deg)
5.6906	32	152	158	-180
5.7486	32	152	158	-180
5.8251	34	152	158	-180
5.8411	34	152	158	-180
5.6858	34	152	158	-180
5.5245	36	152	158	-180
5.3041	36	152	158	-180
5.0861	36	152	158	-180
4.8925	36	152	158	-180
4.7645	38	152	158	-180
4.6506	38	152	158	-180
4.629	38	152	158	-180
4.67	38	152	158	-180
4.7395	36	154	158	-180
4.8426	36	154	158	-180
5.0285	36	154	158	-180
5.0205	36	154	158	-180
5.038	36	154	158	-180
5.0858	36	154	158	-180
4.9836	38	152	158	-180
5.034	38	152	158	-180

spherical efficiency	spherical efficiency	spherical efficiency	spherical efficiency	efficiency LHCP (d)
-9.3005	11.7477	-6.8603	20.6049	-7.8164
-9.3545	11.6026	-6.8031	20.8782	-7.7978
-9.3514	11.6108	-6.8409	20.6972	-7.8109
-9.3244	11.6832	-6.7889	20.9464	-7.7585
-9.2948	11.763	-6.7052	21.354	-7.6917
-9.2452	11.8982	-6.6521	21.6167	-7.6376
-9.2254	11.9526	-6.5649	22.0552	-7.5787
-9.3616	11.5835	-6.639	21.6822	-7.6851
-9.4013	11.478	-6.6832	21.4626	-7.7343
-9.3709	11.5587	-6.6123	21.8156	-7.6893
-9.1942	12.0387	-6.4505	22.6439	-7.5419
-9.1755	12.0906	-6.4265	22.7694	-7.5369
-9.1117	12.2695	-6.3761	23.0349	-7.4981
-9.1059	12.286	-6.3808	23.0101	-7.5136
-9.1097	12.2753	-6.3899	22.9621	-7.5299
-9.029	12.5054	-6.373	23.0518	-7.4933
-9.1847	12.0652	-6.4931	22.4229	-7.6433
-9.0836	12.3492	-6.4333	22.7339	-7.573
-9.1456	12.1742	-6.494	22.4179	-7.6428
-9.1945	12.0379	-6.5147	22.3113	-7.6854
-9.1863	12.0606	-6.5775	21.9913	-7.7073

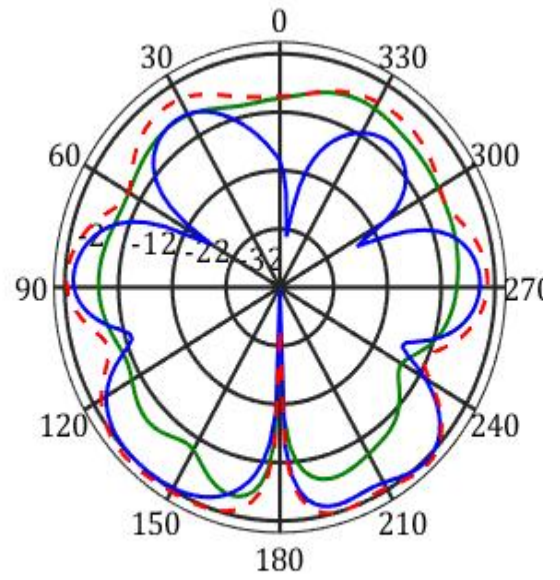
Efficiency LHCP (%)	Efficiency RHCP (dB)	Efficiency RHCP (%)	Gain LHCP (dB)	Gain RHCP (dB)
16.5335	-8.0082	15.8191	-0.852	-0.9884
16.6042	-7.9924	15.8766	-0.7539	-1.0069
16.5542	-8.0261	15.7538	-0.7605	-1.1135
16.7554	-7.9931	15.8742	-0.6805	-1.1708
17.0147	-7.9311	16.1023	-0.5408	-1.1045
17.2282	-7.8817	16.2867	-0.4213	-1.0646
17.4634	-7.8135	16.5444	-0.3393	-1.0028
17.0407	-7.8981	16.2251	-0.3885	-1.066
16.8488	-7.934	16.0918	-0.4494	-1.1035
17.0245	-7.8649	16.3497	-0.3608	-0.9849
17.6121	-7.6775	17.0705	-0.231	-0.8424
17.6323	-7.6377	17.2277	-0.1816	-0.7879
17.7907	-7.5662	17.5138	-0.1652	-0.7609
17.7272	-7.5525	17.569	-0.2199	-0.8307
17.6609	-7.5507	17.5764	-0.2016	-0.7892
17.8103	-7.5088	17.7469	-0.2281	-0.7959
17.2055	-7.6239	17.2826	-0.3227	-0.9145
17.4864	-7.5457	17.5967	-0.2304	-0.8288
17.2076	-7.5984	17.3846	-0.3084	-0.9194
17.0394	-7.6171	17.3098	-0.3338	-0.9619
16.9537	-7.6705	17.0982	-0.3685	-0.9558

AR	AR dB
10.2417	20.2075
8.6324	18.7226
7.8419	17.8885
7.6564	17.6805
7.6974	17.7269
8.2592	18.3387
9.3313	19.3988
11.0602	20.8753
15.1006	23.5799
21.4571	26.6314
37.0897	31.3851
98.3639	39.8567
2258.4525	67.0762
121.2297	41.6722
61.3323	35.7538
41.5979	32.3814
33.0811	30.3916
25.3338	28.074
19.2682	25.6968
15.133	23.5985
11.7191	21.3779

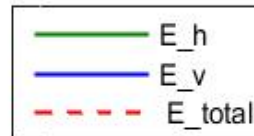
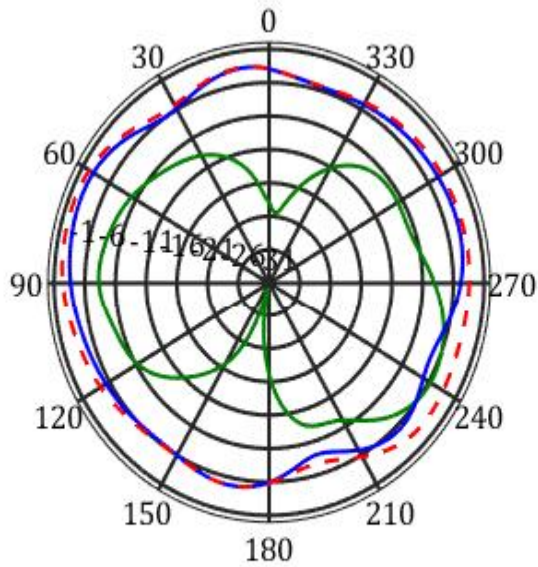
2D Pattern: @phi=0  
**frequency=2400MHz, X-Z Plane**



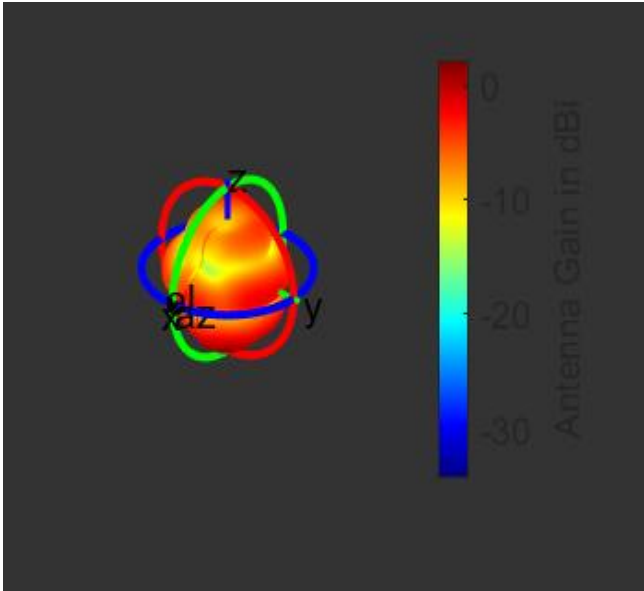
2D Pattern: @phi=90  
**frequency=2400MHz, Y-Z Plane**



**frequency=2400MHz, X-Y Plane**



3D Pattern:



0

x-axis: red

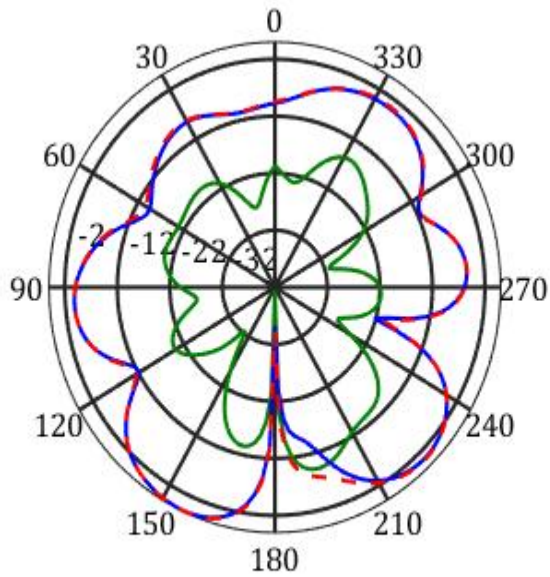
y-axis: green

z-axis: blue

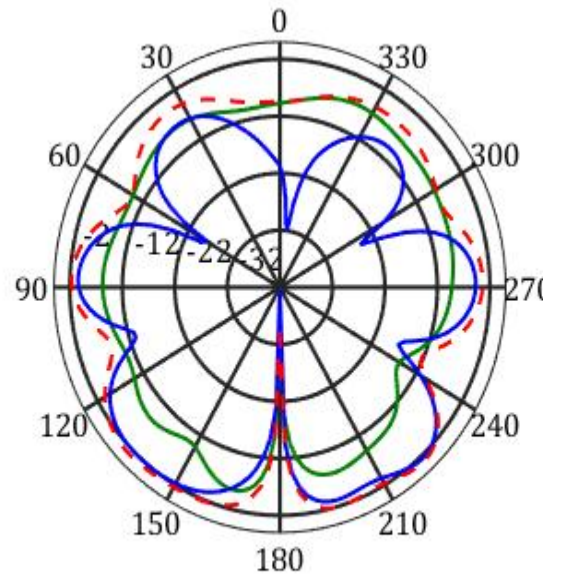
dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-9.27	-5.26	-5.64
E <sub>v</sub> (max)	0.83	-1.61	-2.84
E <sub>total</sub> (max)	0.88	-1.07	-1.97
E <sub>h</sub> (min)	-41.46	-35.05	-35.33
E <sub>v</sub> (min)	-35.05	-41.46	-8.95
E <sub>total</sub> (min)	-34.16	-34.16	-7.66
E <sub>h</sub> (avg)	-21.09	-8.81	-12.06
E <sub>v</sub> (avg)	-7.02	-8.39	-5.09
E <sub>total</sub> (avg)	-6.79	-5.4	-3.93
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-166	166	-118
E <sub>v</sub> (max)	156	-138	66
E <sub>total</sub> (max)	156	-138	70
E <sub>h</sub> (min)	-180	-180	166
E <sub>v</sub> (min)	180	-180	-164
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	22.7	19.53	46.68
E <sub>v</sub> (3dB)	33.91	43.29	94.88
E <sub>total</sub> (3dB)	34.24	44.49	90.48



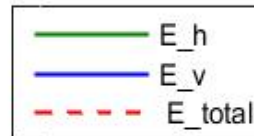
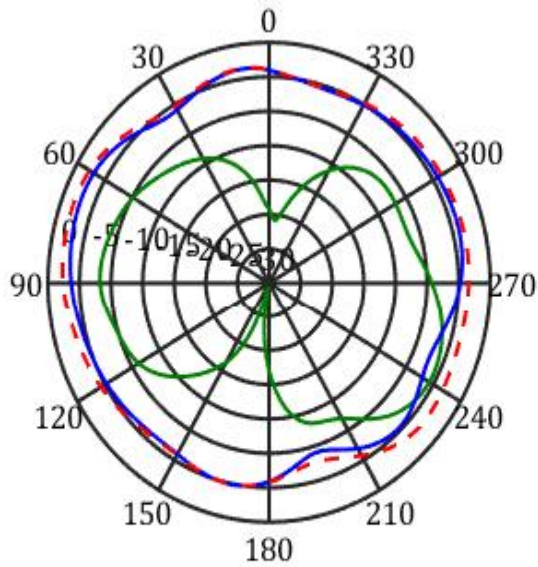
2D Pattern: @phi=0  
frequency=2405MHz, X-Z Plane



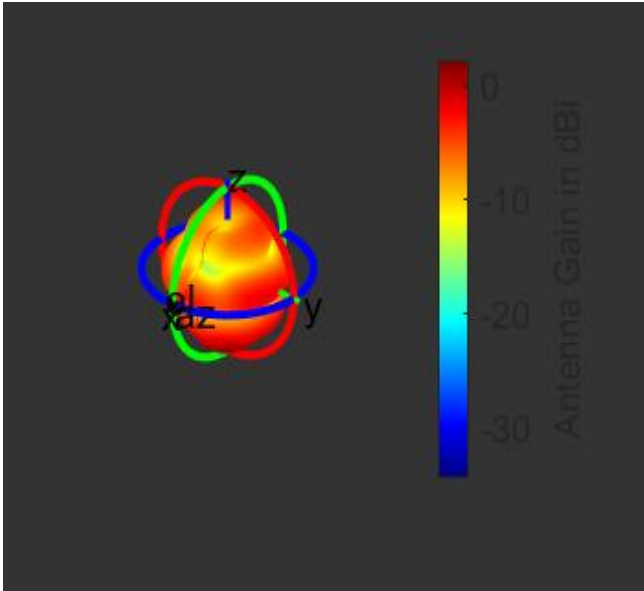
2D Pattern: @phi=90  
frequency=2405MHz, Y-Z Plane



frequency=2405MHz, X-Y Plane



3D Pattern:

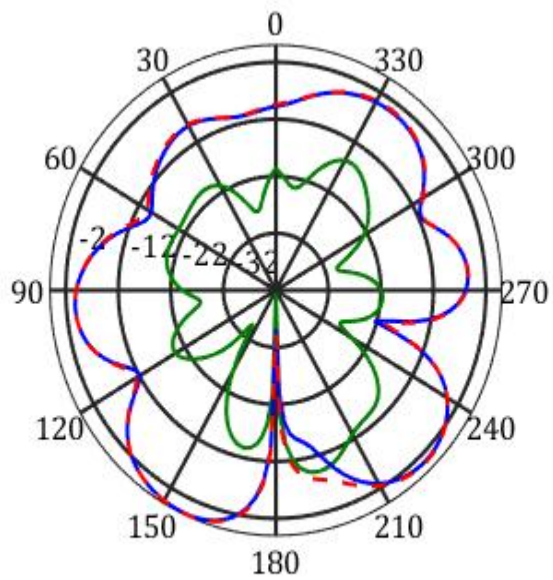


x-axis: red  
y-axis: green  
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-9.19	-5.37	-5.7
E <sub>v</sub> (max)	0.86	-1.53	-2.84
E <sub>total</sub> (max)	0.91	-0.98	-1.97
E <sub>h</sub> (min)	-41.45	-35.17	-34.44
E <sub>v</sub> (min)	-35.17	-41.45	-9.02
E <sub>total</sub> (min)	-34.25	-34.25	-7.72
E <sub>h</sub> (avg)	-20.98	-8.96	-12.01
E <sub>v</sub> (avg)	-7.07	-8.35	-5.1
E <sub>total</sub> (avg)	-6.78	-5.42	-3.93
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-166	166	-118
E <sub>v</sub> (max)	156	-138	66
E <sub>total</sub> (max)	156	-138	70
E <sub>h</sub> (min)	180	-180	166
E <sub>v</sub> (min)	180	-180	-162
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	22.19	19.89	46.44
E <sub>v</sub> (3dB)	33.91	43.19	96.54
E <sub>total</sub> (3dB)	34.24	44.32	91.28

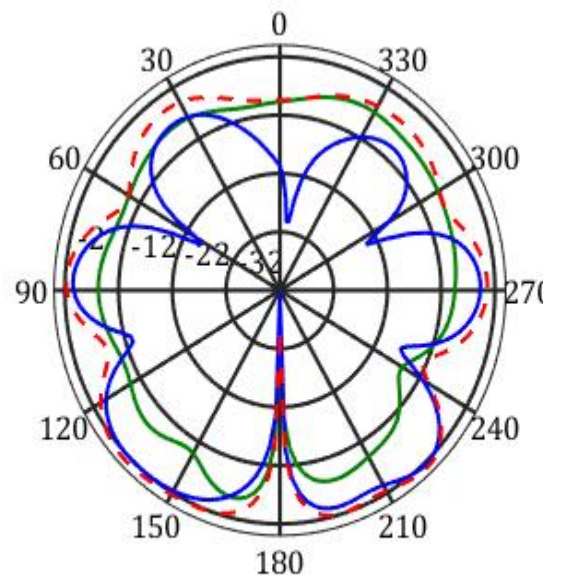
2D Pattern: @phi=0

frequency=2410MHz, X-Z Plane

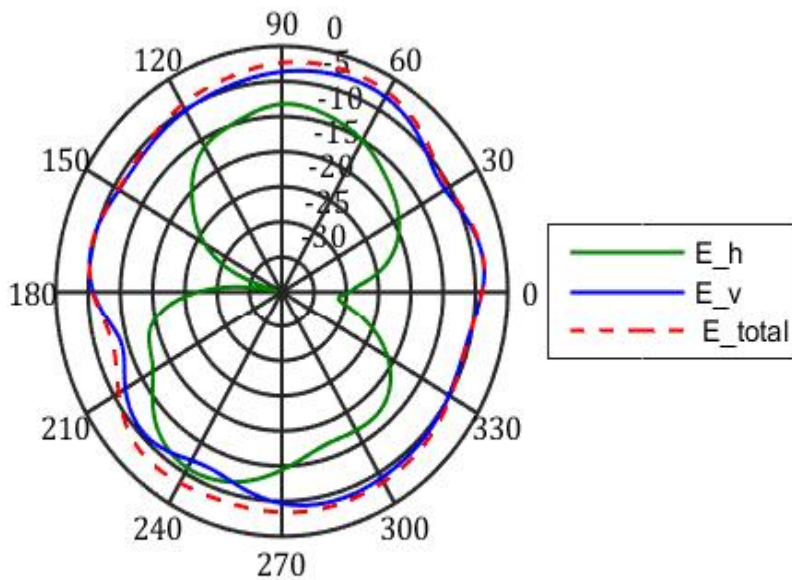


2D Pattern: @phi=90

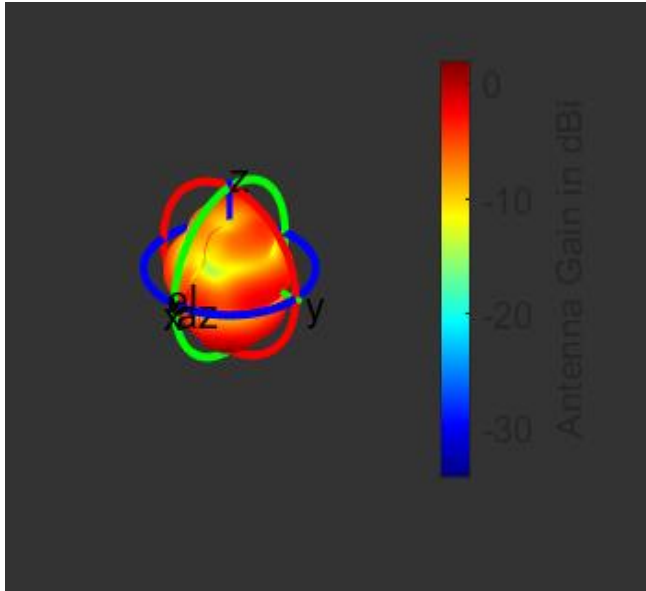
frequency=2410MHz, Y-Z Plane



frequency=2410MHz, X-Y Plane



3D Pattern:



0

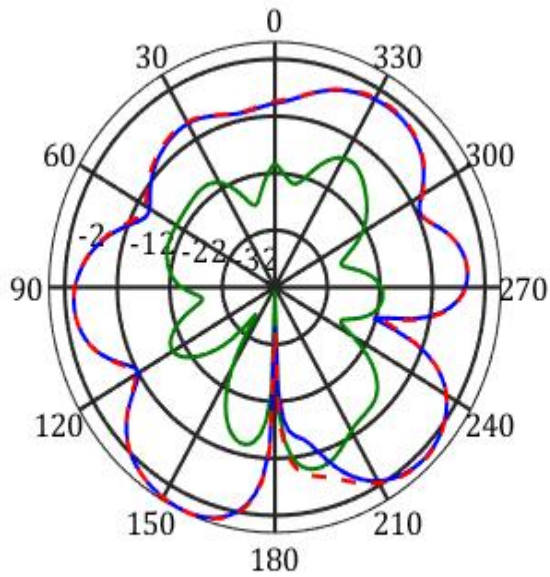
x-axis: red

y-axis: green

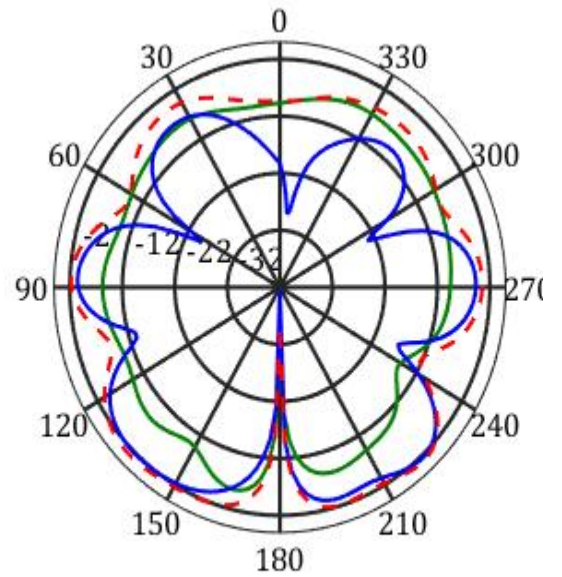
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E_h(max)	-9.21	-5.43	-5.8
E_v(max)	0.81	-1.63	-2.79
E_total(max)	0.86	-1.06	-1.92
E_h(min)	-41.49	-35.22	-34.22
E_v(min)	-35.22	-41.49	-9.05
E_total(min)	-34.3	-34.3	-7.74
E_h(avg)	-21.05	-8.94	-12.13
E_v(avg)	-7.1	-8.36	-5.02
E_total(avg)	-6.86	-5.38	-3.92
degree	X-Z plane	Y-Z plane	X-Y plane
E_h(max)	-166	166	-118
E_v(max)	156	-138	66
E_total(max)	156	136	70
E_h(min)	-180	-180	168
E_v(min)	180	-180	-162
E_total(min)	180	-180	-164
E_h(3dB)	21.65	19.85	46.22
E_v(3dB)	33.86	42.85	98.83
E_total(3dB)	34.16	51.48	92.43

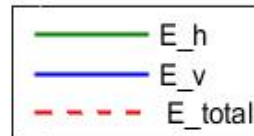
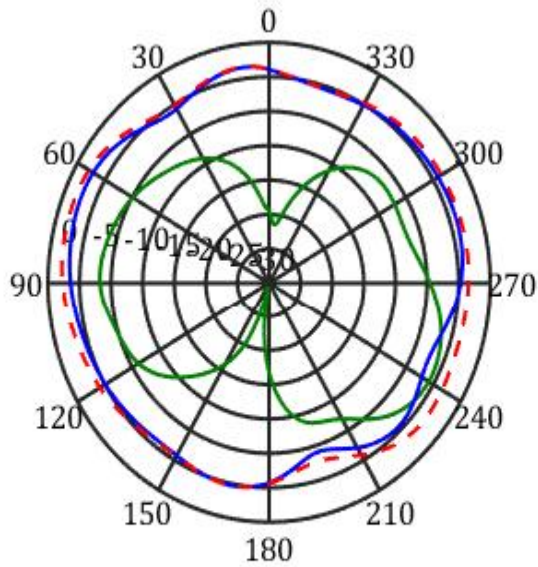
2D Pattern: @phi=0  
frequency=2415MHz, X-Z Plane



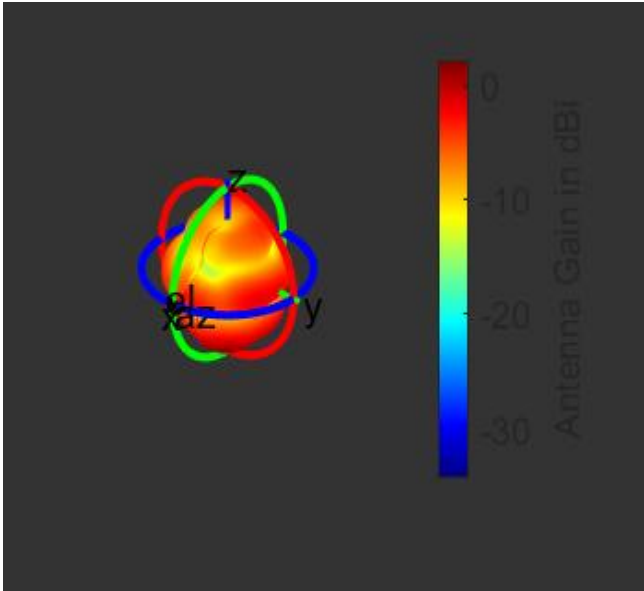
2D Pattern: @phi=90  
frequency=2415MHz, Y-Z Plane



frequency=2415MHz, X-Y Plane



3D Pattern:



0

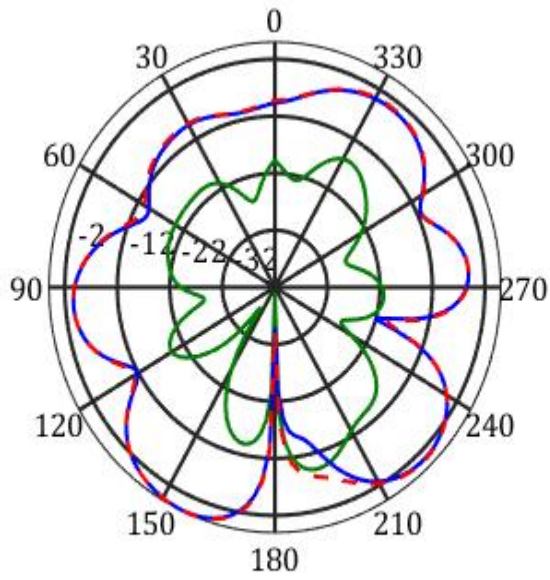
x-axis: red

y-axis: green

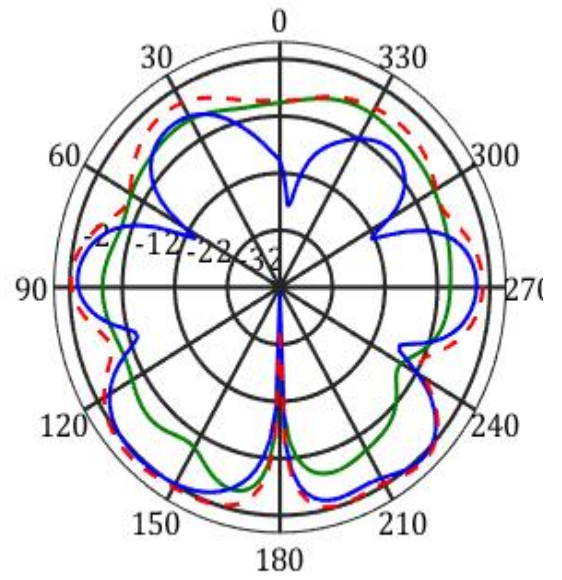
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-9.23	-5.46	-5.81
E <sub>v</sub> (max)	0.83	-1.56	-2.73
E <sub>total</sub> (max)	0.87	-0.98	-1.87
E <sub>h</sub> (min)	-41.38	-35.12	-34.47
E <sub>v</sub> (min)	-35.12	-41.38	-9.04
E <sub>total</sub> (min)	-34.2	-34.2	-7.71
E <sub>h</sub> (avg)	-21.1	-8.98	-12.21
E <sub>v</sub> (avg)	-7.05	-8.21	-4.97
E <sub>total</sub> (avg)	-6.8	-5.41	-3.85
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-166	166	-118
E <sub>v</sub> (max)	156	-138	66
E <sub>total</sub> (max)	156	136	70
E <sub>h</sub> (min)	-180	-180	168
E <sub>v</sub> (min)	180	-180	-162
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	21.56	20.08	46.03
E <sub>v</sub> (3dB)	33.9	42.58	101.43
E <sub>total</sub> (3dB)	34.17	51.25	93.59

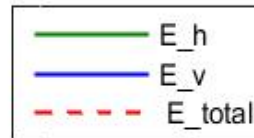
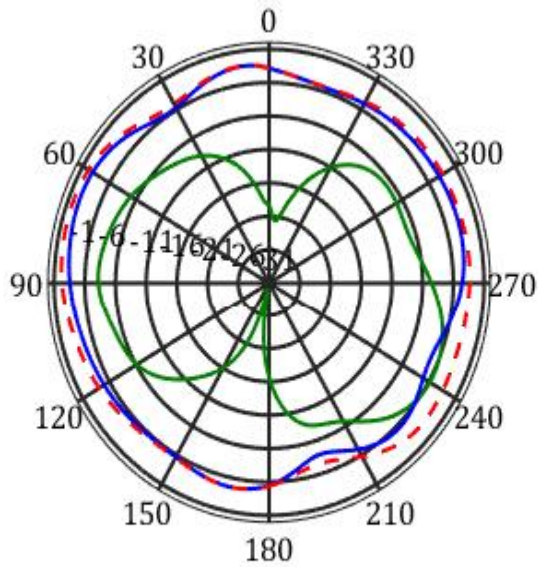
2D Pattern: @phi=0  
frequency=2420MHz, X-Z Plane



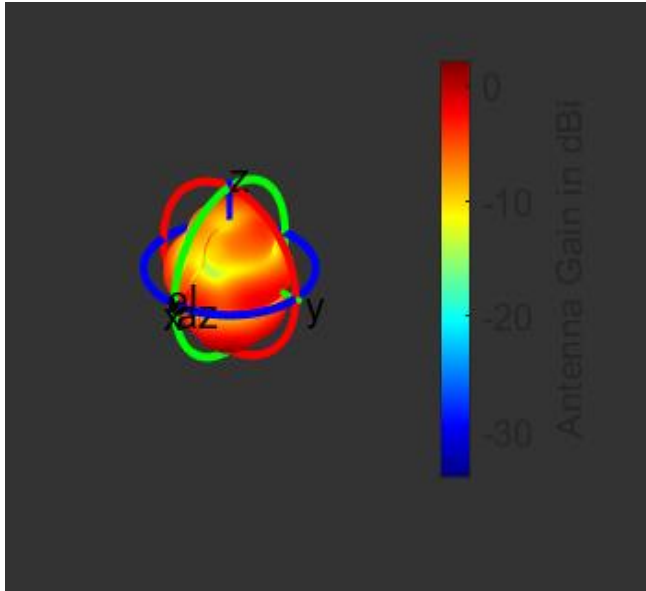
2D Pattern: @phi=90  
frequency=2420MHz, Y-Z Plane



frequency=2420MHz, X-Y Plane



3D Pattern:



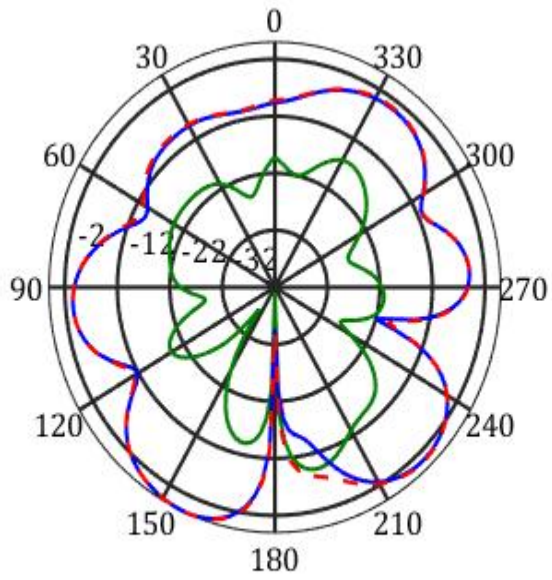
0

x-axis: red  
y-axis: green  
z-axis: blue

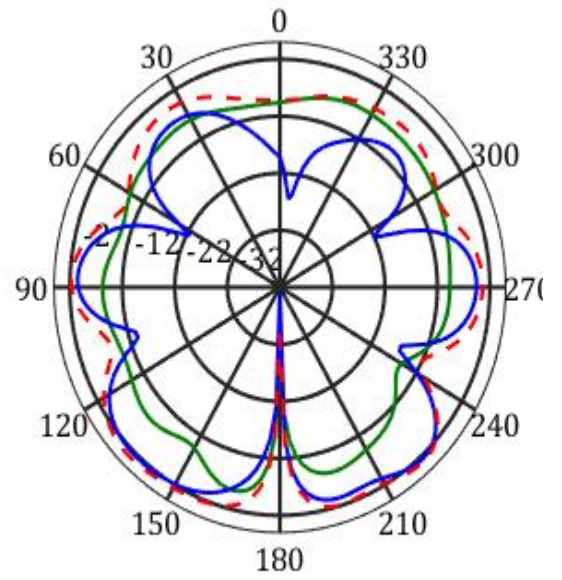
dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-9.14	-5.36	-5.78
E <sub>v</sub> (max)	0.9	-1.5	-2.72
E <sub>total</sub> (max)	0.94	-0.86	-1.85
E <sub>h</sub> (min)	-41.16	-34.93	-35.12
E <sub>v</sub> (min)	-34.93	-41.16	-8.84
E <sub>total</sub> (min)	-34	-34	-7.54
E <sub>h</sub> (avg)	-21	-8.97	-12.22
E <sub>v</sub> (avg)	-6.94	-8.16	-4.86
E <sub>total</sub> (avg)	-6.72	-5.42	-3.79
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-166	166	-118
E <sub>v</sub> (max)	156	-138	66
E <sub>total</sub> (max)	156	136	70
E <sub>h</sub> (min)	-180	-180	168
E <sub>v</sub> (min)	180	180	-162
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	21.29	20.17	45.99
E <sub>v</sub> (3dB)	33.81	42.27	104.82
E <sub>total</sub> (3dB)	34.06	51.08	94.7



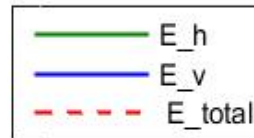
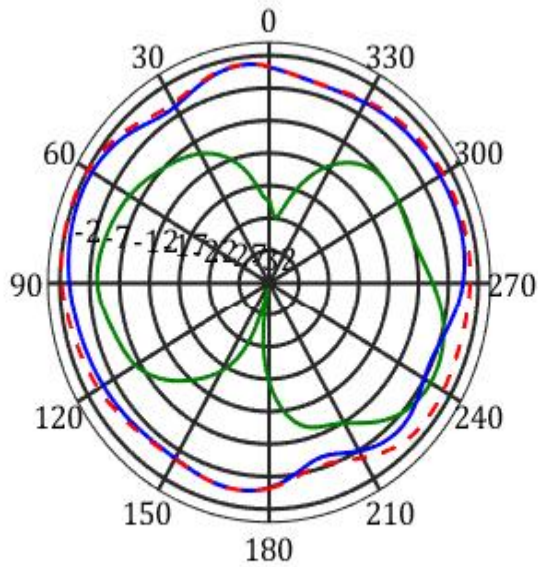
2D Pattern: @phi=0  
frequency=2425MHz, X-Z Plane



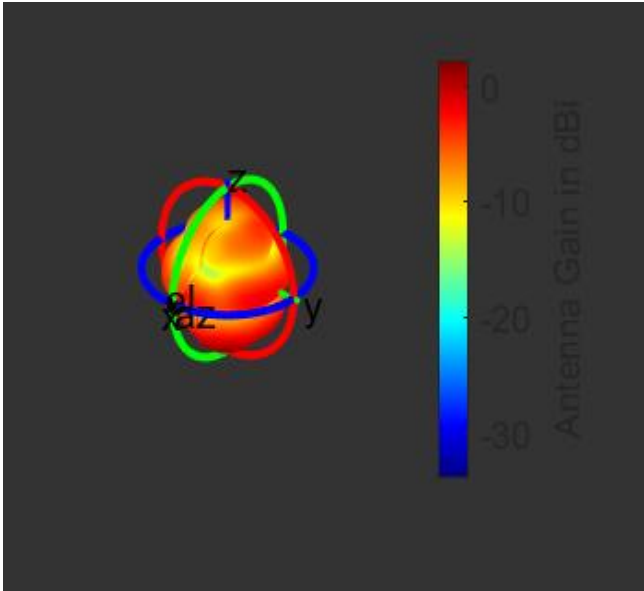
2D Pattern: @phi=90  
frequency=2425MHz, Y-Z Plane



frequency=2425MHz, X-Y Plane



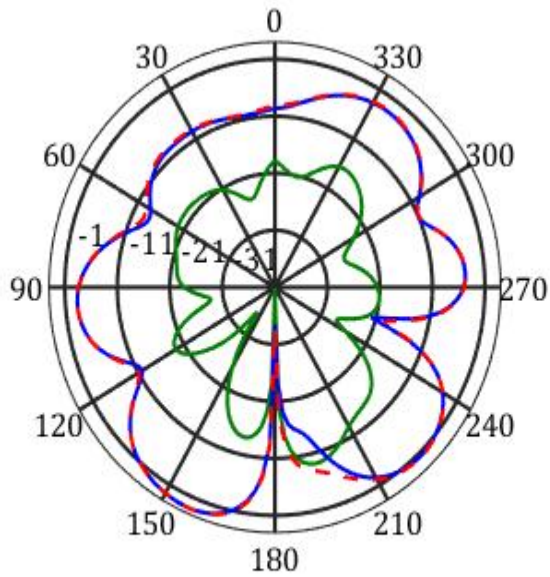
3D Pattern:



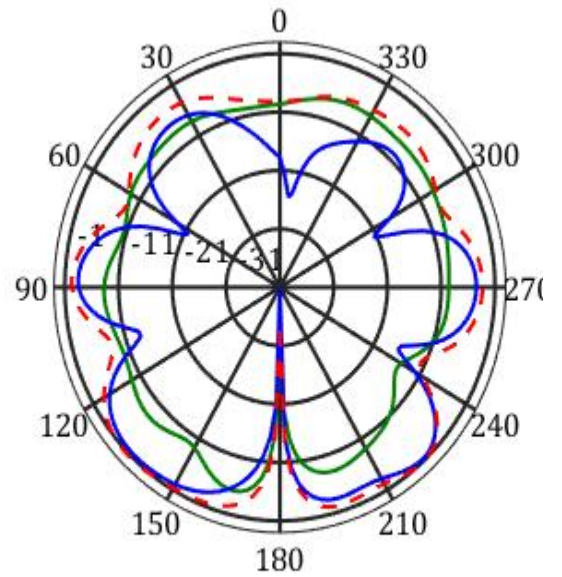
x-axis: red  
y-axis: green  
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-9.17	-5.28	-5.79
E <sub>v</sub> (max)	0.95	-1.46	-2.71
E <sub>total</sub> (max)	1	-0.77	-1.86
E <sub>h</sub> (min)	-41.11	-34.73	-36.24
E <sub>v</sub> (min)	-34.73	-41.11	-8.62
E <sub>total</sub> (min)	-33.83	-33.83	-7.38
E <sub>h</sub> (avg)	-20.99	-8.92	-12.22
E <sub>v</sub> (avg)	-6.8	-8.02	-4.81
E <sub>total</sub> (avg)	-6.58	-5.35	-3.75
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-166	166	-118
E <sub>v</sub> (max)	156	-138	66
E <sub>total</sub> (max)	156	136	70
E <sub>h</sub> (min)	-180	-180	168
E <sub>v</sub> (min)	180	180	-162
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	21.29	20.14	45.88
E <sub>v</sub> (3dB)	33.72	41.8	150.35
E <sub>total</sub> (3dB)	33.95	50.91	95.75

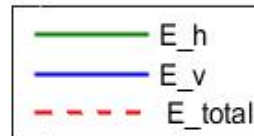
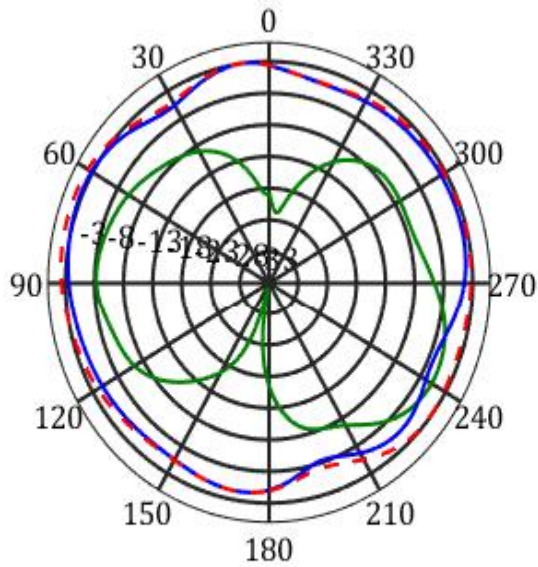
2D Pattern: @phi=0  
frequency=2430MHz, X-Z Plane



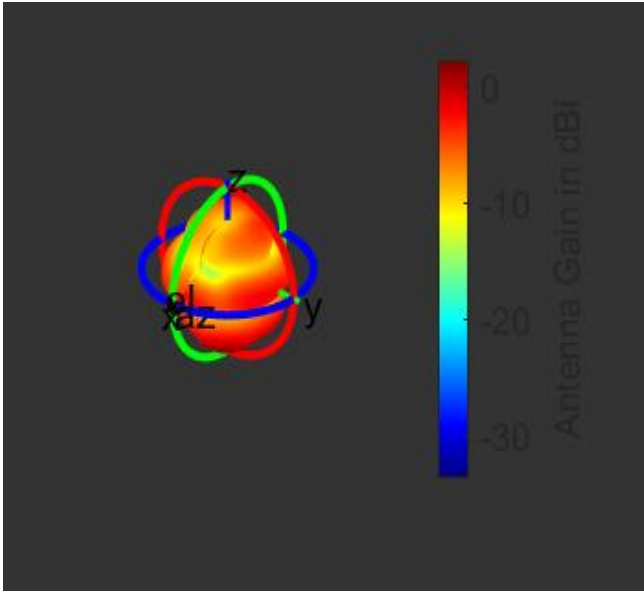
2D Pattern: @phi=90  
frequency=2430MHz, Y-Z Plane



frequency=2430MHz, X-Y Plane



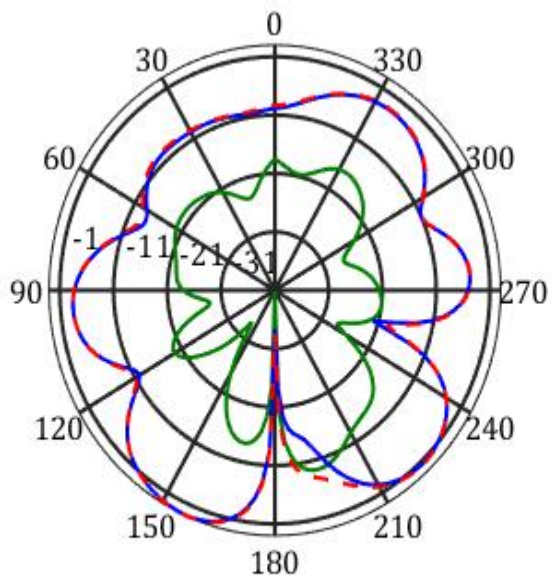
3D Pattern:



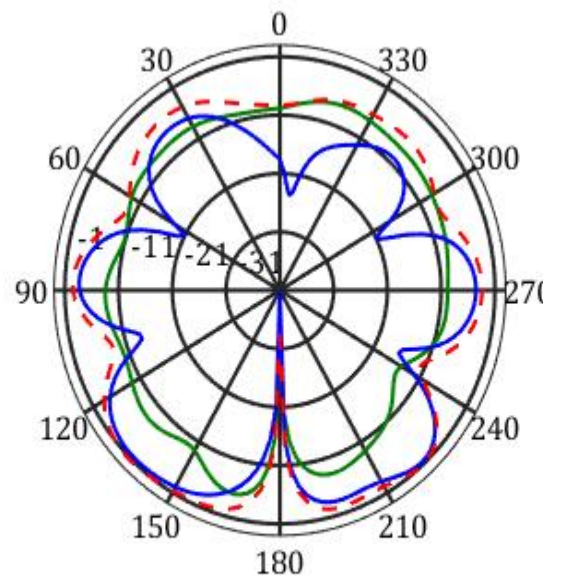
x-axis: red  
y-axis: green  
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-9.15	-5.1	-5.74
E <sub>v</sub> (max)	1.01	-1.36	-2.7
E <sub>total</sub> (max)	1.05	-0.66	-1.86
E <sub>h</sub> (min)	-40.83	-34.49	-37.31
E <sub>v</sub> (min)	-34.49	-40.83	-8.34
E <sub>total</sub> (min)	-33.58	-33.58	-7.16
E <sub>h</sub> (avg)	-20.89	-8.87	-12.13
E <sub>v</sub> (avg)	-6.72	-7.8	-4.75
E <sub>total</sub> (avg)	-6.62	-5.43	-3.66
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-166	166	-118
E <sub>v</sub> (max)	156	-138	66
E <sub>total</sub> (max)	156	136	70
E <sub>h</sub> (min)	180	-180	168
E <sub>v</sub> (min)	180	-180	-162
E <sub>total</sub> (min)	180	-180	-162
E <sub>h</sub> (3dB)	21.67	20.21	45.86
E <sub>v</sub> (3dB)	33.73	41.62	283.83
E <sub>total</sub> (3dB)	33.94	50.89	97.29

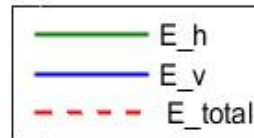
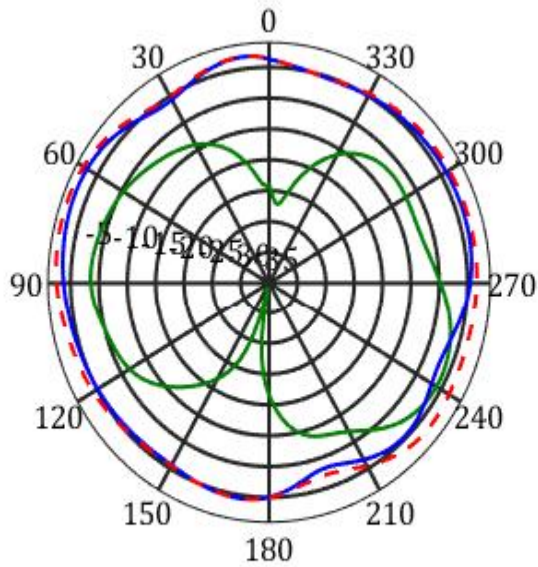
2D Pattern: @phi=0  
frequency=2435MHz, X-Z Plane



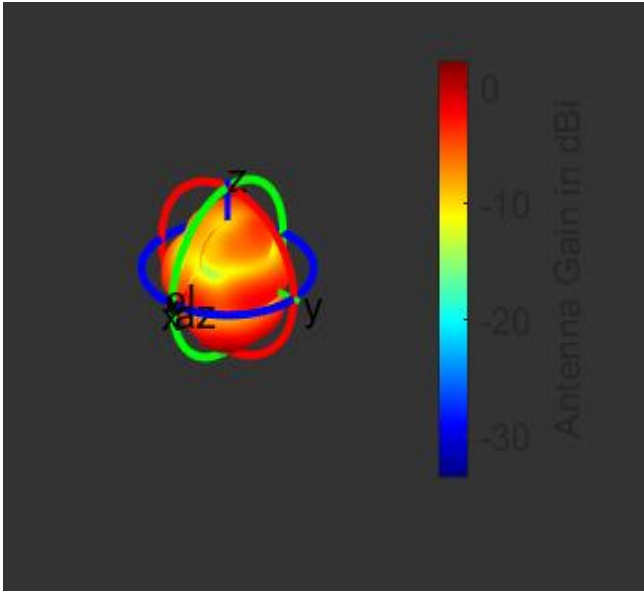
2D Pattern: @phi=90  
frequency=2435MHz, Y-Z Plane



frequency=2435MHz, X-Y Plane



3D Pattern:

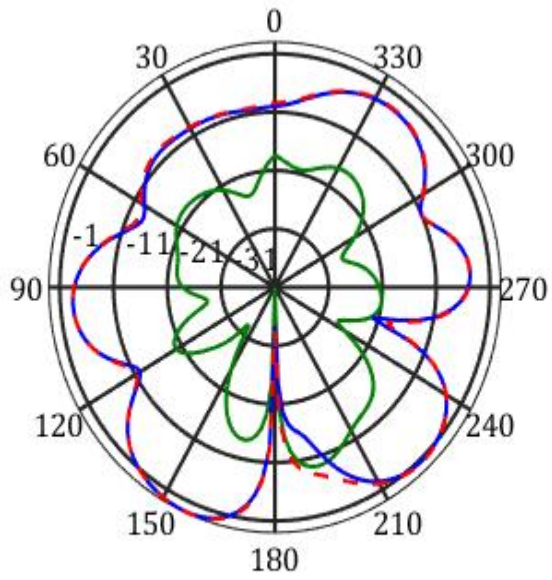


0

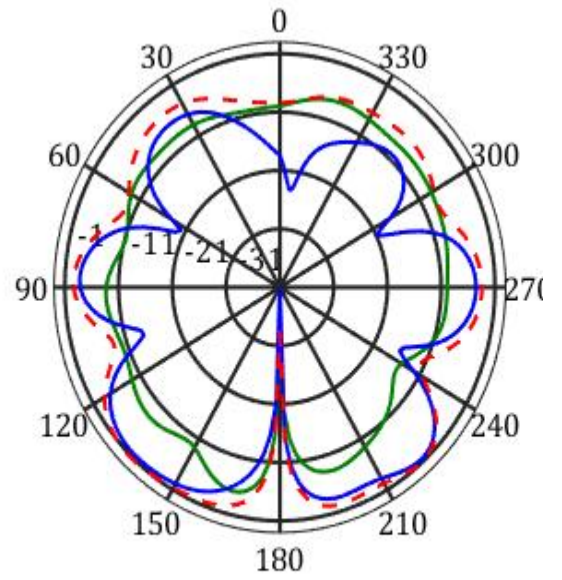
x-axis: red  
y-axis: green  
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-9.31	-5.08	-5.89
E <sub>v</sub> (max)	0.92	-1.45	-2.85
E <sub>total</sub> (max)	0.97	-0.72	-2.03
E <sub>h</sub> (min)	-40.78	-34.44	-39.33
E <sub>v</sub> (min)	-34.44	-40.78	-8.21
E <sub>total</sub> (min)	-33.53	-33.53	-7.11
E <sub>h</sub> (avg)	-20.88	-9.04	-12.28
E <sub>v</sub> (avg)	-6.77	-7.83	-4.83
E <sub>total</sub> (avg)	-6.69	-5.52	-3.76
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-166	166	-118
E <sub>v</sub> (max)	156	-138	66
E <sub>total</sub> (max)	156	136	70
E <sub>h</sub> (min)	-180	-180	168
E <sub>v</sub> (min)	180	-180	-162
E <sub>total</sub> (min)	180	-180	-162
E <sub>h</sub> (3dB)	22.09	20.1	45.79
E <sub>v</sub> (3dB)	33.63	41.48	285.59
E <sub>total</sub> (3dB)	33.82	50.96	98.58

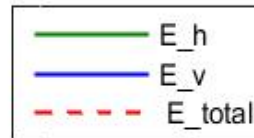
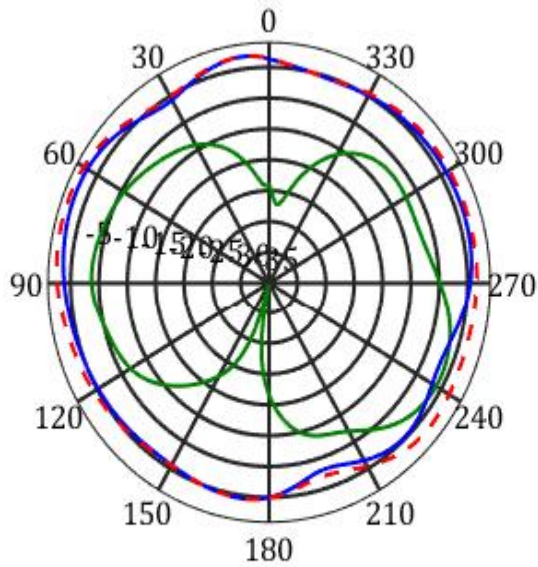
2D Pattern: @phi=0  
frequency=2440MHz, X-Z Plane



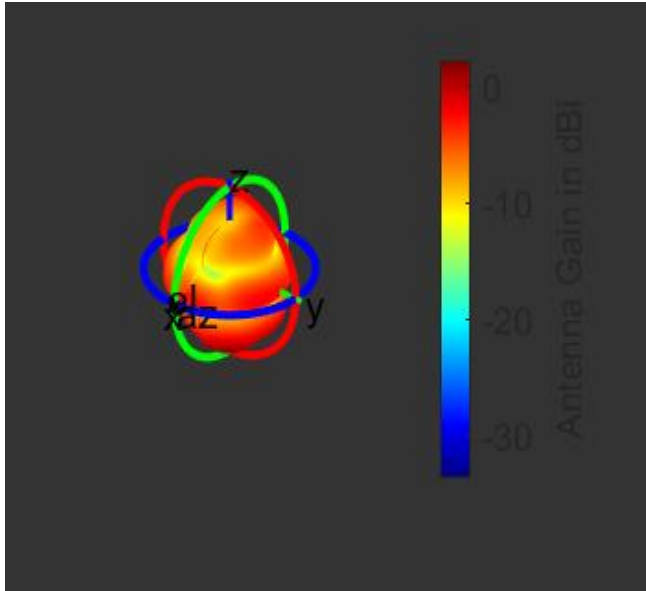
2D Pattern: @phi=90  
frequency=2440MHz, Y-Z Plane



frequency=2440MHz, X-Y Plane



3D Pattern:



0

x-axis: red

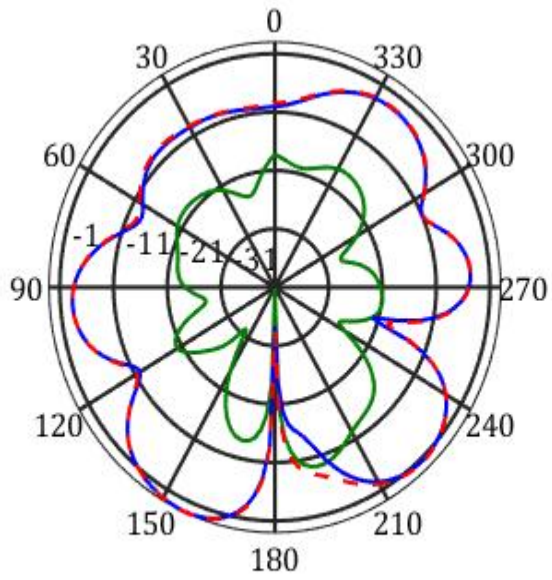
y-axis: green

z-axis: blue

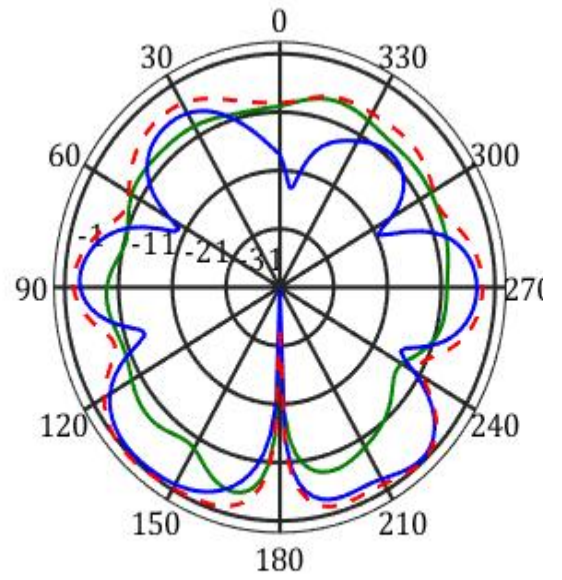
dBi	X-Z plane	Y-Z plane	X-Y plane
E_h(max)	-9.39	-5.01	-5.97
E_v(max)	0.85	-1.51	-2.92
E_total(max)	0.9	-0.76	-2.12
E_h(min)	-40.91	-34.38	-39.86
E_v(min)	-34.38	-40.91	-8.05
E_total(min)	-33.51	-33.51	-7.01
E_h(avg)	-20.91	-9.12	-12.29
E_v(avg)	-6.89	-7.91	-4.89
E_total(avg)	-6.68	-5.48	-3.78
degree	X-Z plane	Y-Z plane	X-Y plane
E_h(max)	-164	166	-118
E_v(max)	156	-138	66
E_total(max)	156	136	70
E_h(min)	-180	-180	166
E_v(min)	180	180	-162
E_total(min)	180	-180	-162
E_h(3dB)	22.74	20.01	45.72
E_v(3dB)	33.62	41.46	287.17
E_total(3dB)	33.83	51	99.51



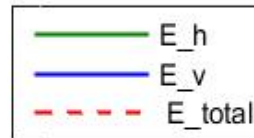
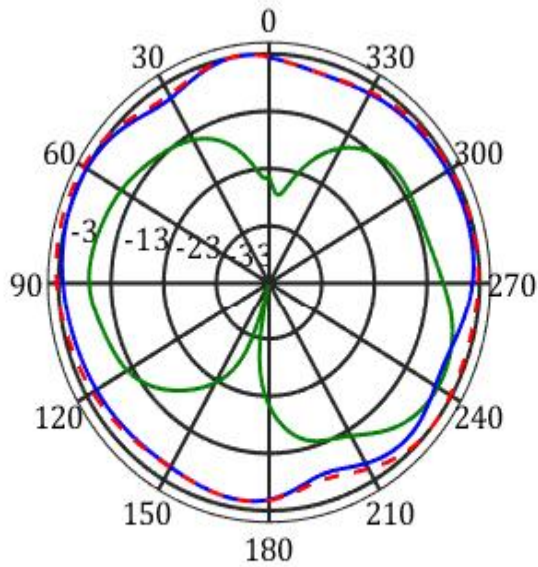
2D Pattern: @phi=0  
frequency=2445MHz, X-Z Plane



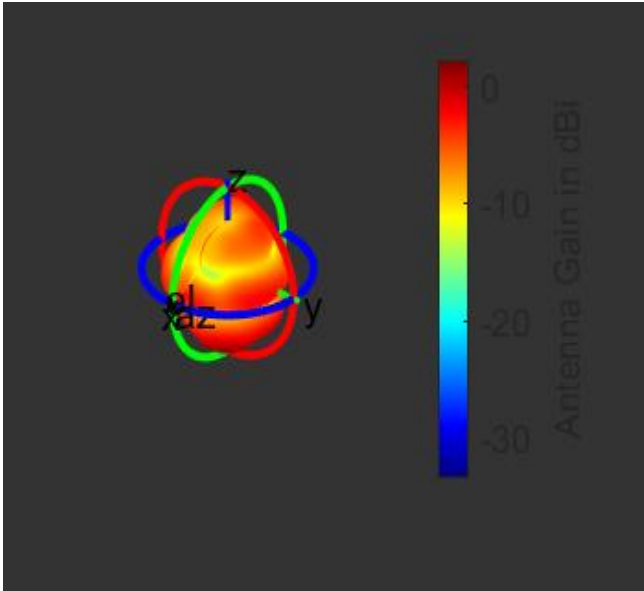
2D Pattern: @phi=90  
frequency=2445MHz, Y-Z Plane



frequency=2445MHz, X-Y Plane



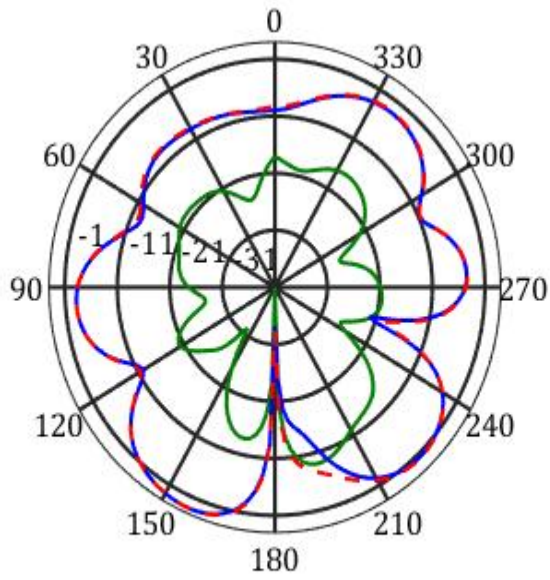
3D Pattern:



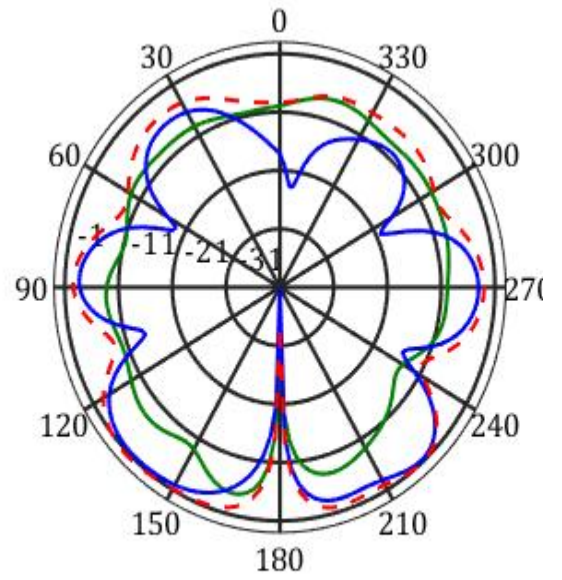
x-axis: red  
y-axis: green  
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E_h(max)	-9.36	-4.92	-5.97
E_v(max)	0.91	-1.49	-2.9
E_total(max)	0.96	-0.65	-2.12
E_h(min)	-40.76	-34.36	-42.79
E_v(min)	-34.36	-40.76	-7.89
E_total(min)	-33.46	-33.46	-6.88
E_h(avg)	-20.88	-9.14	-12.26
E_v(avg)	-6.84	-7.86	-4.82
E_total(avg)	-6.62	-5.55	-3.7
degree	X-Z plane	Y-Z plane	X-Y plane
E_h(max)	-164	166	-118
E_v(max)	156	138	66
E_total(max)	156	136	70
E_h(min)	-180	-180	166
E_v(min)	180	-180	-162
E_total(min)	180	-180	-164
E_h(3dB)	23.5	20.14	45.65
E_v(3dB)	33.5	42.23	288.96
E_total(3dB)	33.71	50.73	100.79

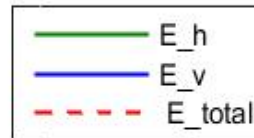
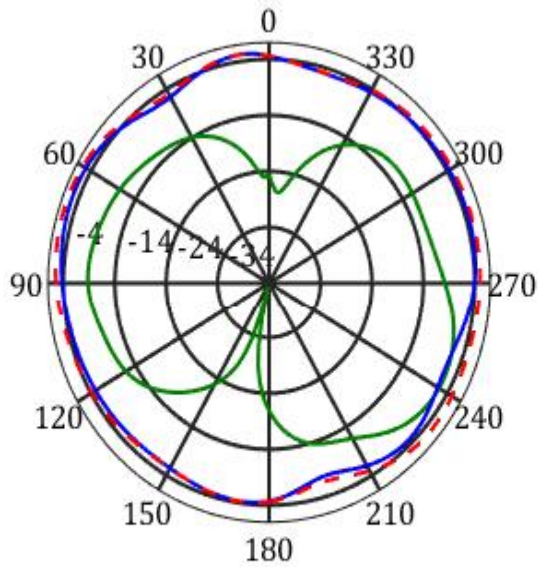
2D Pattern: @phi=0  
frequency=2450MHz, X-Z Plane



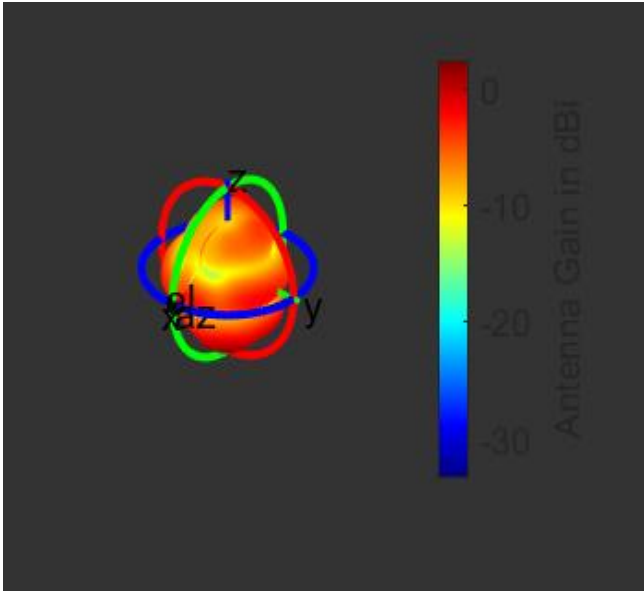
2D Pattern: @phi=90  
frequency=2450MHz, Y-Z Plane



frequency=2450MHz, X-Y Plane



3D Pattern:

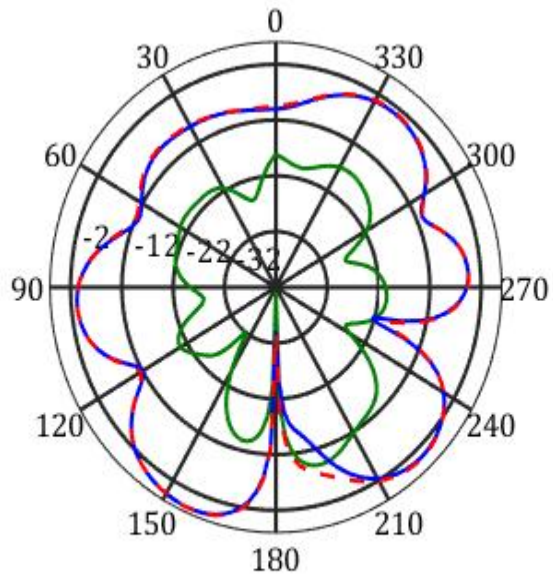


x-axis: red  
y-axis: green  
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-9.04	-4.64	-5.81
E <sub>v</sub> (max)	1.06	-1.37	-2.78
E <sub>total</sub> (max)	1.11	-0.52	-2
E <sub>h</sub> (min)	-40.89	-34.15	-43.3
E <sub>v</sub> (min)	-34.15	-40.89	-7.64
E <sub>total</sub> (min)	-33.31	-33.31	-6.65
E <sub>h</sub> (avg)	-20.6	-9.08	-12.03
E <sub>v</sub> (avg)	-6.67	-7.65	-4.65
E <sub>total</sub> (avg)	-6.44	-5.43	-3.58
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-164	166	-118
E <sub>v</sub> (max)	156	-138	66
E <sub>total</sub> (max)	156	136	70
E <sub>h</sub> (min)	-180	-180	166
E <sub>v</sub> (min)	180	180	-162
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	23.59	19.89	45.63
E <sub>v</sub> (3dB)	33.4	41.84	291.44
E <sub>total</sub> (3dB)	33.62	51.08	100.78

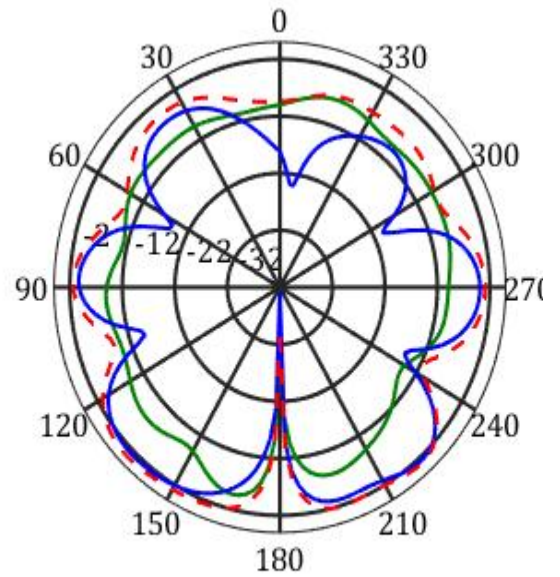
2D Pattern: @phi=0

frequency=2455MHz, X-Z Plane

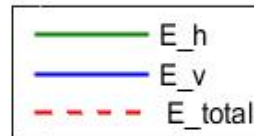
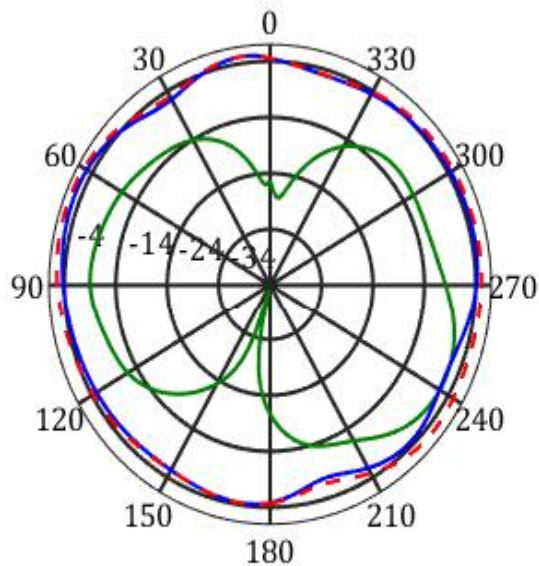


2D Pattern: @phi=90

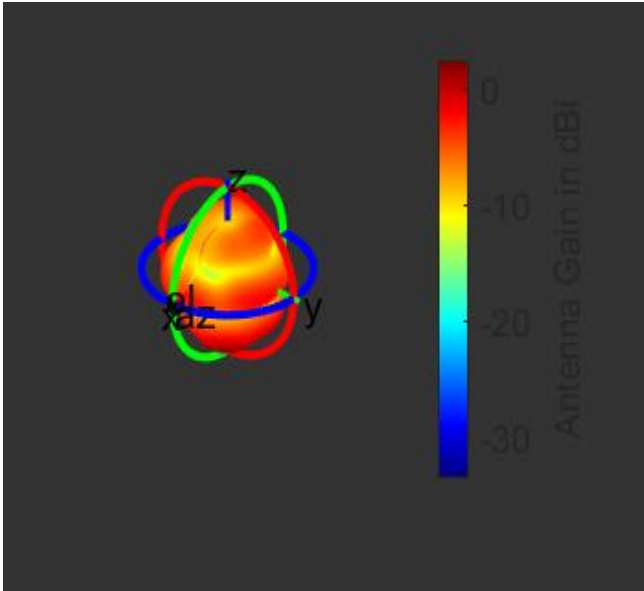
frequency=2455MHz, Y-Z Plane



frequency=2455MHz, X-Y Plane



3D Pattern:

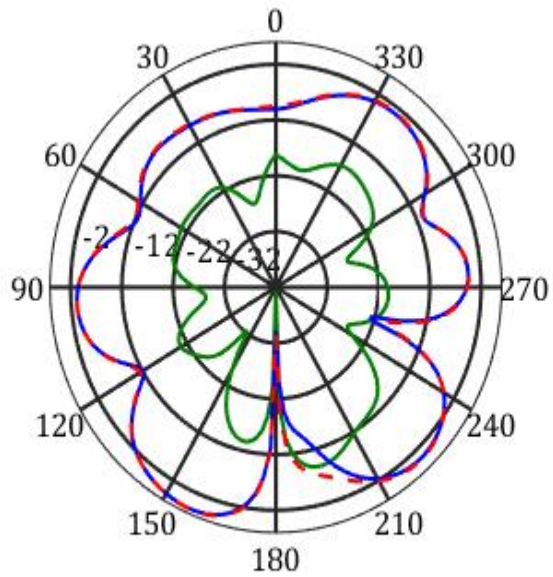


x-axis: red  
y-axis: green  
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-9.04	-4.6	-5.87
E <sub>v</sub> (max)	1.08	-1.32	-2.76
E <sub>total</sub> (max)	1.13	-0.46	-2.03
E <sub>h</sub> (min)	-41.23	-34.21	-43.18
E <sub>v</sub> (min)	-34.21	-41.23	-7.63
E <sub>total</sub> (min)	-33.42	-33.42	-6.66
E <sub>h</sub> (avg)	-20.59	-9.25	-12.04
E <sub>v</sub> (avg)	-6.72	-7.63	-4.65
E <sub>total</sub> (avg)	-6.45	-5.37	-3.55
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-164	166	-120
E <sub>v</sub> (max)	156	136	66
E <sub>total</sub> (max)	158	136	70
E <sub>h</sub> (min)	-180	-180	166
E <sub>v</sub> (min)	180	180	-162
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	24.53	20	45.86
E <sub>v</sub> (3dB)	33.35	42.43	153.57
E <sub>total</sub> (3dB)	33.58	50.91	100.28

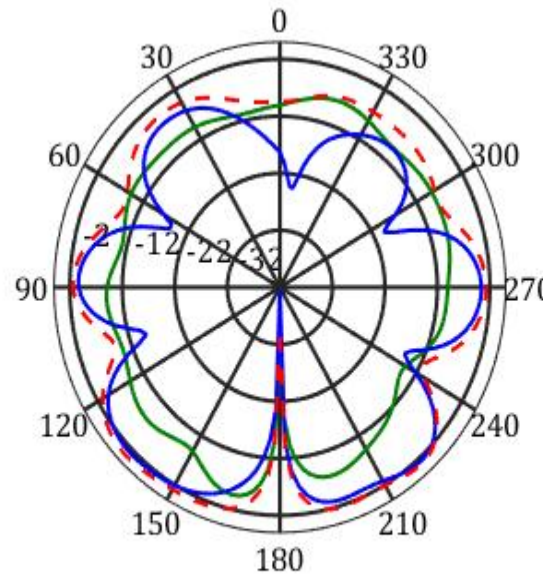
2D Pattern: @phi=0

frequency=2460MHz, X-Z Plane

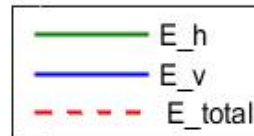
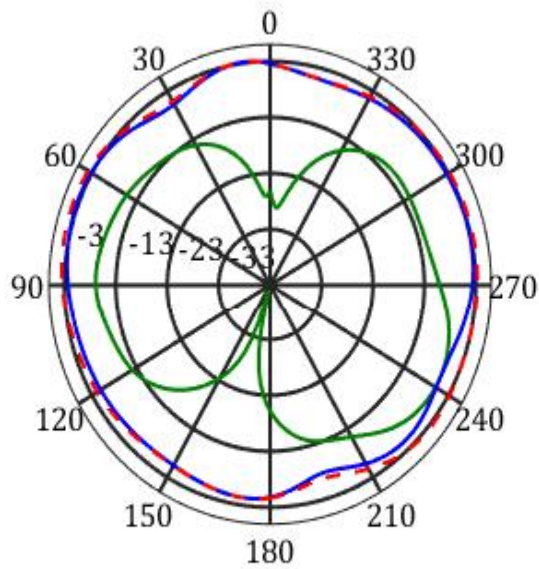


2D Pattern: @phi=90

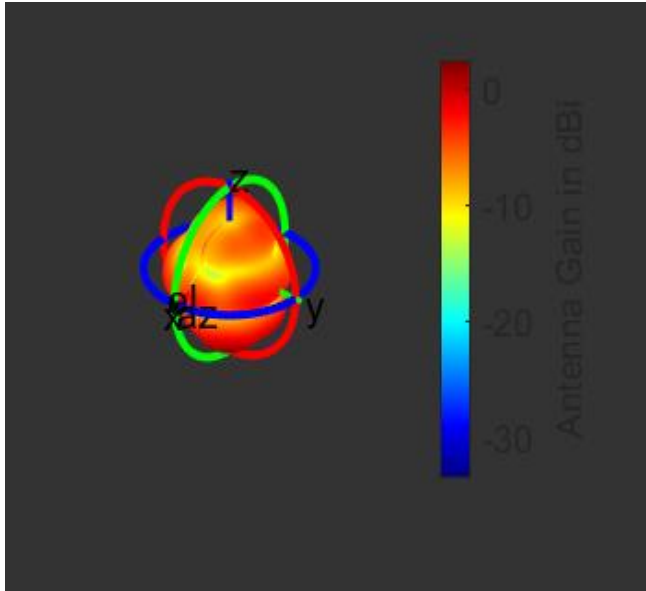
frequency=2460MHz, Y-Z Plane



frequency=2460MHz, X-Y Plane



### 3D Pattern:



0

x-axis: red

y-axis: green

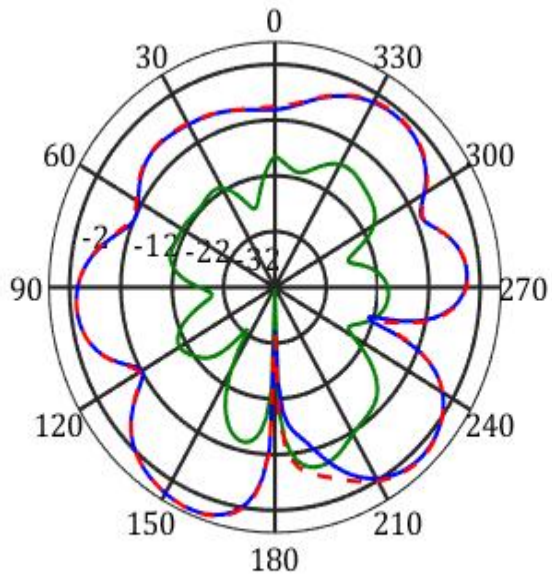
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-8.78	-4.51	-5.85
E <sub>v</sub> (max)	1.11	-1.32	-2.69
E <sub>total</sub> (max)	1.17	-0.44	-1.98
E <sub>h</sub> (min)	-41.29	-34.21	-42.11
E <sub>v</sub> (min)	-34.21	-41.29	-7.63
E <sub>total</sub> (min)	-33.44	-33.44	-6.65
E <sub>h</sub> (avg)	-20.75	-9.36	-12.03
E <sub>v</sub> (avg)	-6.56	-7.5	-4.57
E <sub>total</sub> (avg)	-6.33	-5.34	-3.48
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-164	166	-120
E <sub>v</sub> (max)	156	136	66
E <sub>total</sub> (max)	158	136	70
E <sub>h</sub> (min)	-180	-180	164
E <sub>v</sub> (min)	180	-180	-162
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	24.1	19.96	45.62
E <sub>v</sub> (3dB)	33.19	42.77	151.16
E <sub>total</sub> (3dB)	33.39	51.14	99.51



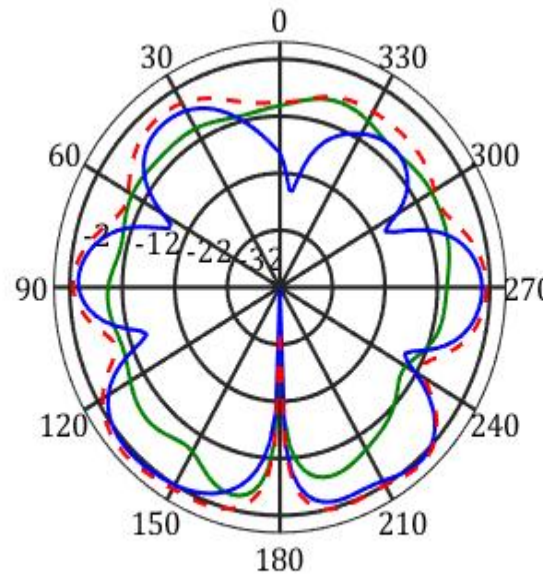
2D Pattern: @phi=0

frequency=2465MHz, X-Z Plane

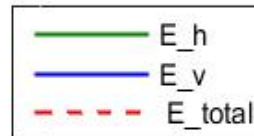
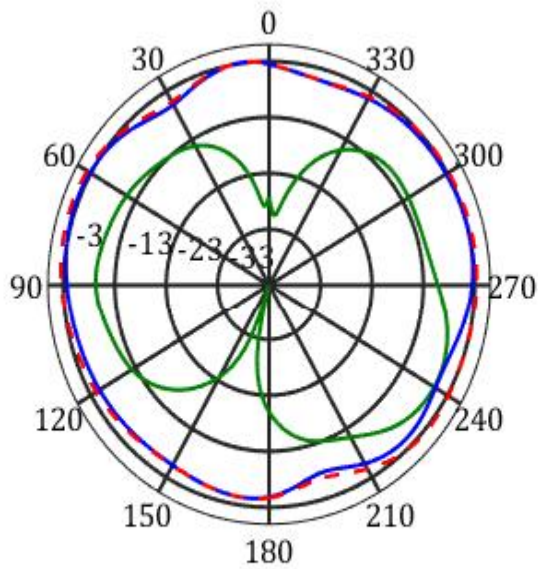


2D Pattern: @phi=90

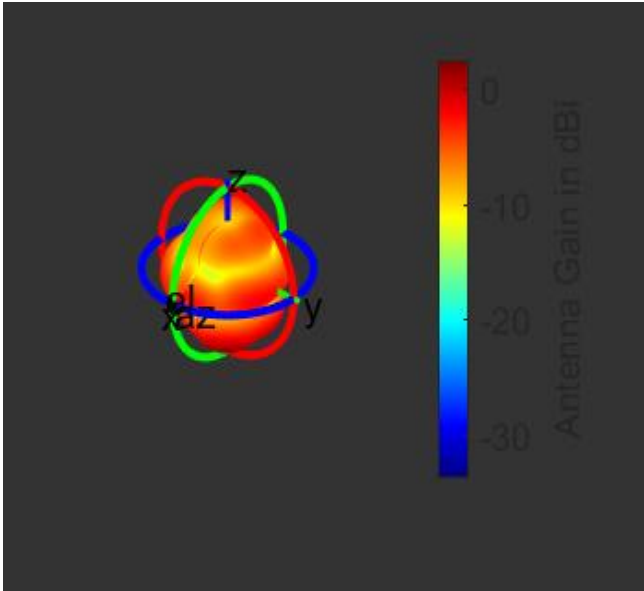
frequency=2465MHz, Y-Z Plane



frequency=2465MHz, X-Y Plane



3D Pattern:



0

x-axis: red

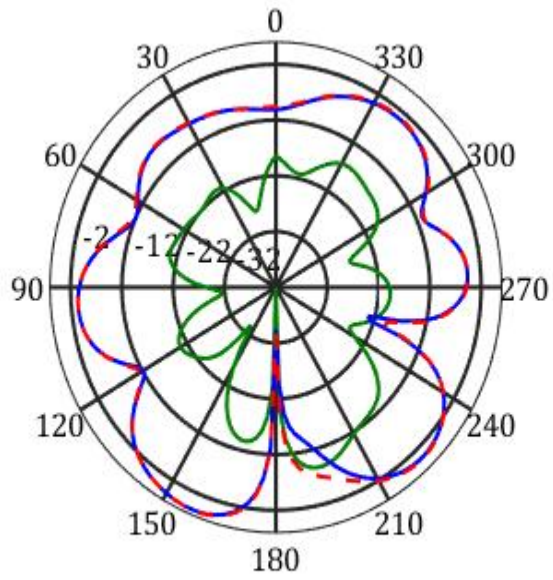
y-axis: green

z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-8.72	-4.51	-5.92
E <sub>v</sub> (max)	1.08	-1.32	-2.66
E <sub>total</sub> (max)	1.15	-0.44	-1.99
E <sub>h</sub> (min)	-41.69	-34.3	-42.98
E <sub>v</sub> (min)	-34.3	-41.69	-7.72
E <sub>total</sub> (min)	-33.57	-33.57	-6.73
E <sub>h</sub> (avg)	-20.96	-9.58	-12.06
E <sub>v</sub> (avg)	-6.57	-7.41	-4.6
E <sub>total</sub> (avg)	-6.3	-5.4	-3.51
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-164	166	-120
E <sub>v</sub> (max)	158	136	68
E <sub>total</sub> (max)	158	134	70
E <sub>h</sub> (min)	180	-180	164
E <sub>v</sub> (min)	180	180	-162
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	24.14	20.04	45.42
E <sub>v</sub> (3dB)	33.2	42.82	149.96
E <sub>total</sub> (3dB)	33.34	51.19	99.22

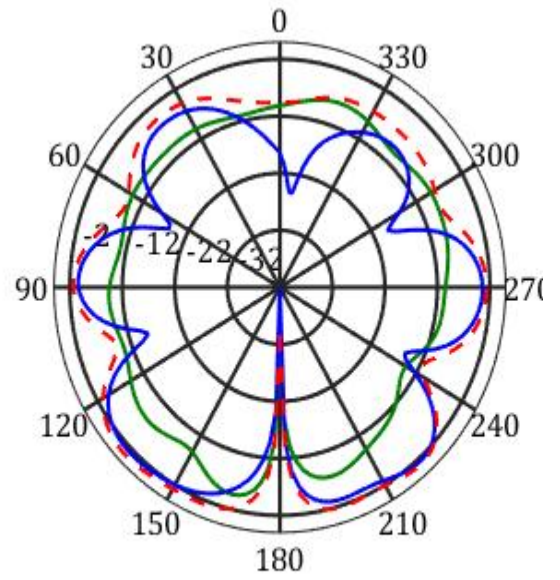
2D Pattern: @phi=0

frequency=2470MHz, X-Z Plane

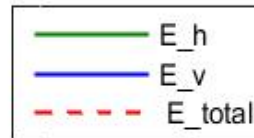
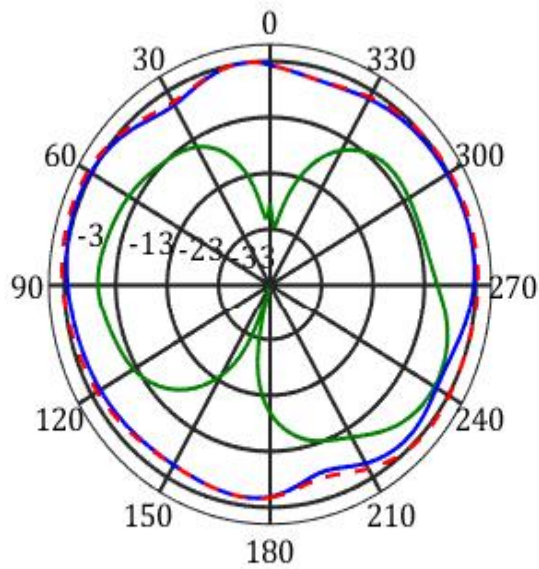


2D Pattern: @phi=90

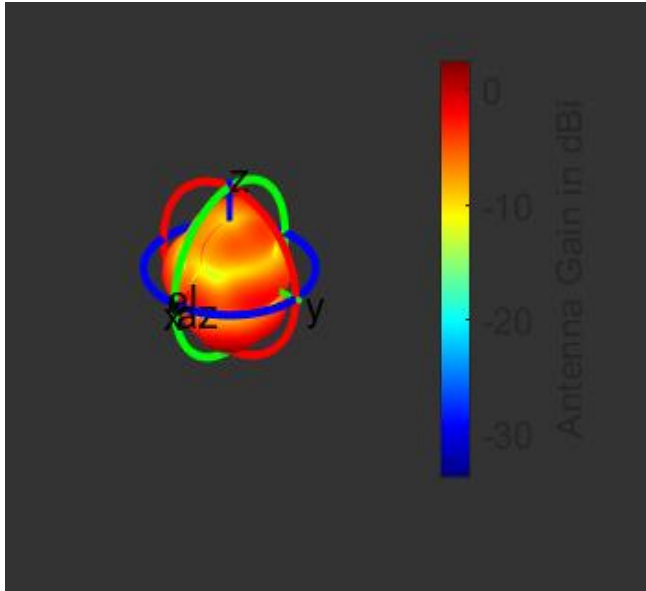
frequency=2470MHz, Y-Z Plane



frequency=2470MHz, X-Y Plane



### 3D Pattern:



0

x-axis: red

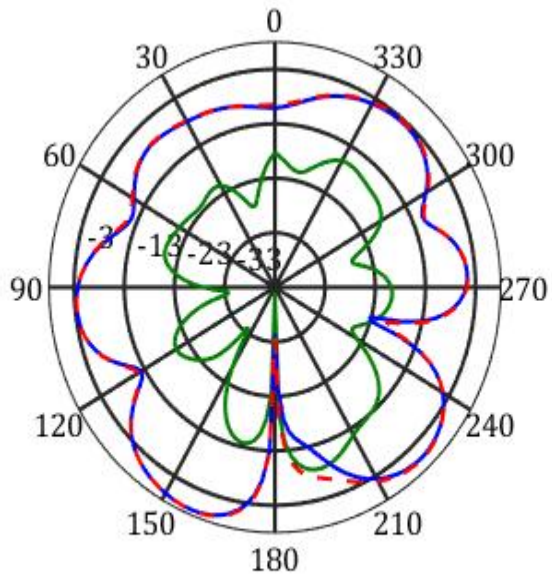
y-axis: green

z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-8.64	-4.58	-6.05
E <sub>v</sub> (max)	1.08	-1.3	-2.61
E <sub>total</sub> (max)	1.15	-0.42	-1.98
E <sub>h</sub> (min)	-41.94	-34.42	-42.52
E <sub>v</sub> (min)	-34.42	-41.94	-7.83
E <sub>total</sub> (min)	-33.71	-33.71	-6.83
E <sub>h</sub> (avg)	-20.98	-9.75	-12.21
E <sub>v</sub> (avg)	-6.71	-7.32	-4.59
E <sub>total</sub> (avg)	-6.35	-5.43	-3.6
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-164	166	-120
E <sub>v</sub> (max)	158	136	68
E <sub>total</sub> (max)	158	134	70
E <sub>h</sub> (min)	180	-180	164
E <sub>v</sub> (min)	180	180	-162
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	23.62	20.29	45.27
E <sub>v</sub> (3dB)	33.06	42.71	148.68
E <sub>total</sub> (3dB)	33.2	50.9	98.65

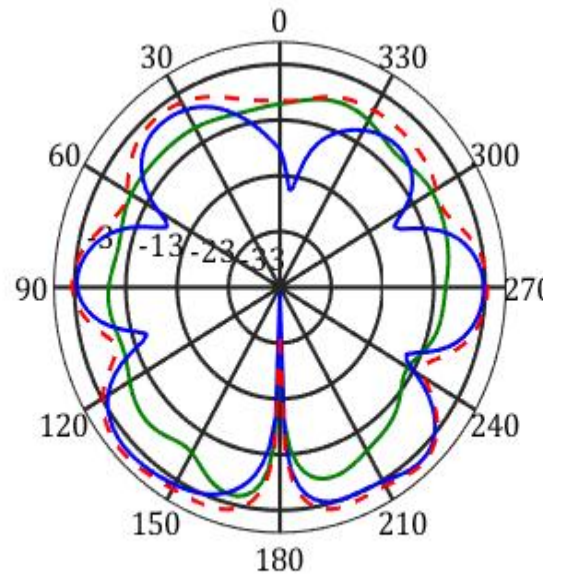
2D Pattern: @phi=0

frequency=2475MHz, X-Z Plane

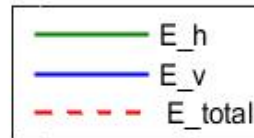
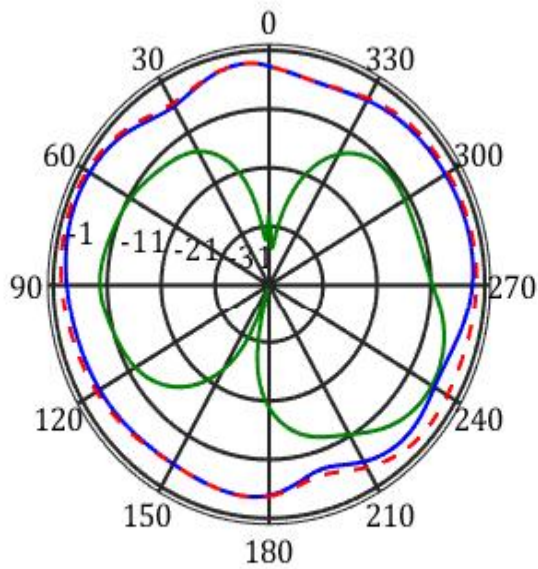


2D Pattern: @phi=90

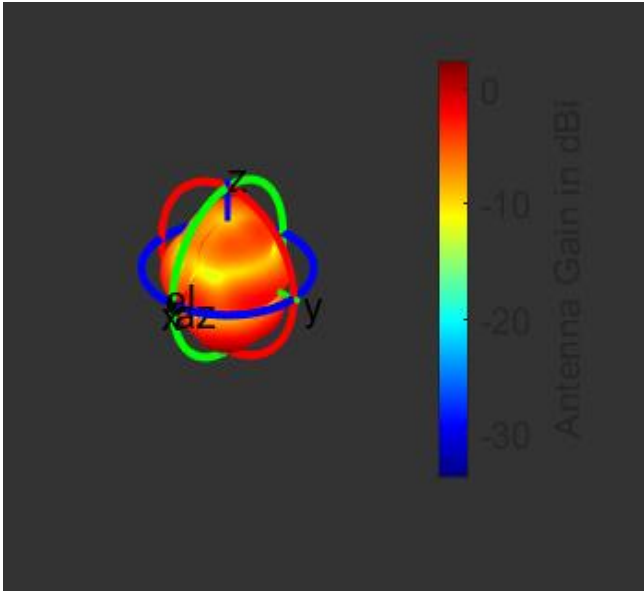
frequency=2475MHz, Y-Z Plane



frequency=2475MHz, X-Y Plane



3D Pattern:

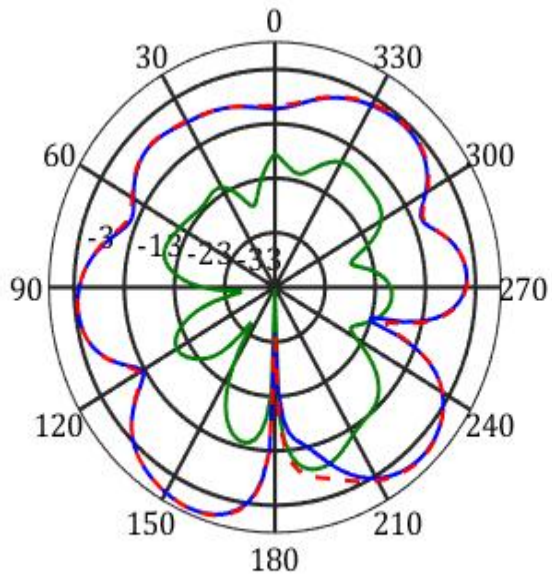


x-axis: red  
y-axis: green  
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E_h(max)	-8.55	-4.56	-6.14
E_v(max)	1.07	-1.29	-2.47
E_total(max)	1.14	-0.39	-1.88
E_h(min)	-42.1	-34.47	-40.47
E_v(min)	-34.47	-42.1	-7.91
E_total(min)	-33.78	-33.78	-6.91
E_h(avg)	-20.73	-9.72	-12.24
E_v(avg)	-6.83	-7.17	-4.58
E_total(avg)	-6.34	-5.47	-3.53
degree	X-Z plane	Y-Z plane	X-Y plane
E_h(max)	-164	166	-120
E_v(max)	158	136	68
E_total(max)	158	134	70
E_h(min)	-180	-180	164
E_v(min)	180	180	-162
E_total(min)	180	-180	-164
E_h(3dB)	23.07	20.22	45.21
E_v(3dB)	32.94	42.83	105.84
E_total(3dB)	33.09	50.9	98.39

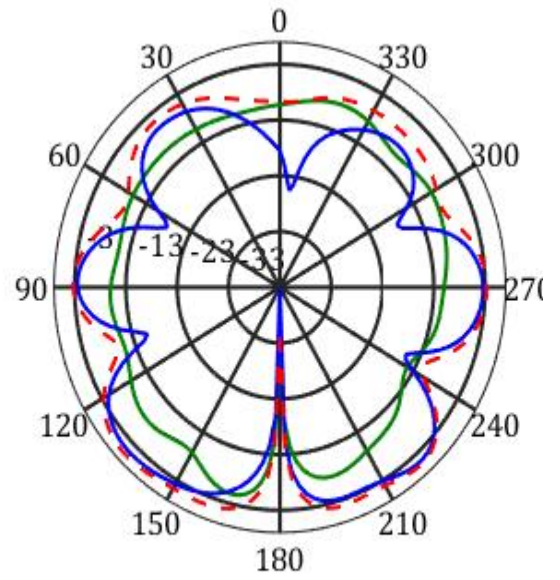
2D Pattern: @phi=0

frequency=2480MHz, X-Z Plane

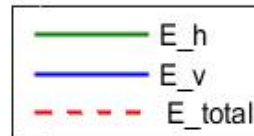
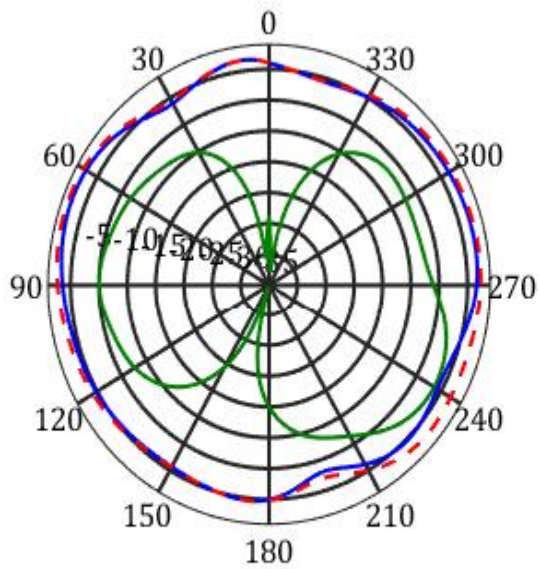


2D Pattern: @phi=90

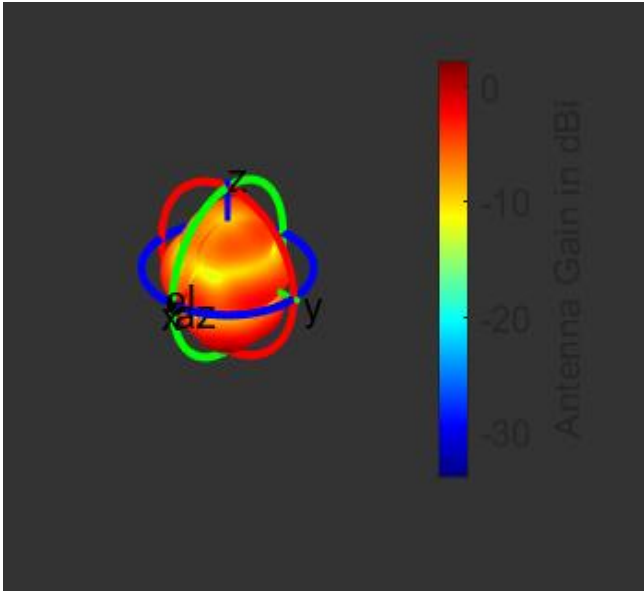
frequency=2480MHz, Y-Z Plane



frequency=2480MHz, X-Y Plane



3D Pattern:



0

x-axis: red

y-axis: green

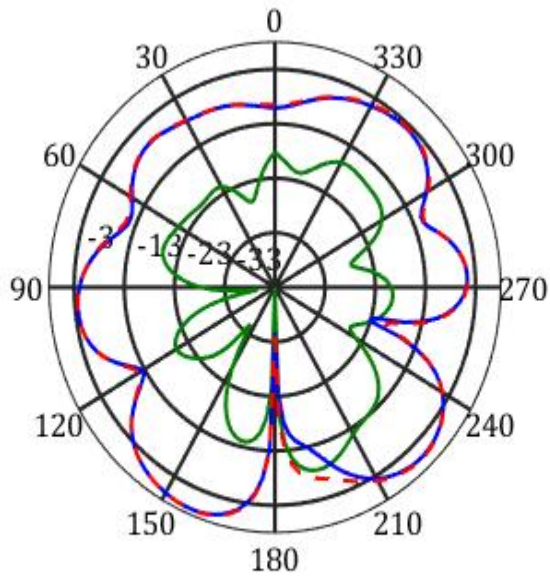
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-8.62	-4.73	-6.38
E <sub>v</sub> (max)	0.94	-1.36	-2.58
E <sub>total</sub> (max)	1.01	-0.49	-2.02
E <sub>h</sub> (min)	-42.68	-34.69	-39.73
E <sub>v</sub> (min)	-34.69	-42.68	-8.05
E <sub>total</sub> (min)	-34.05	-34.05	-7.04
E <sub>h</sub> (avg)	-20.96	-9.97	-12.58
E <sub>v</sub> (avg)	-7.06	-7.38	-4.72
E <sub>total</sub> (avg)	-6.57	-5.64	-3.67
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-164	166	-120
E <sub>v</sub> (max)	158	136	68
E <sub>total</sub> (max)	158	134	70
E <sub>h</sub> (min)	180	-180	162
E <sub>v</sub> (min)	180	180	-162
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	22.98	20.5	45.17
E <sub>v</sub> (3dB)	32.88	42.31	104.78
E <sub>total</sub> (3dB)	33.03	50.51	98.62



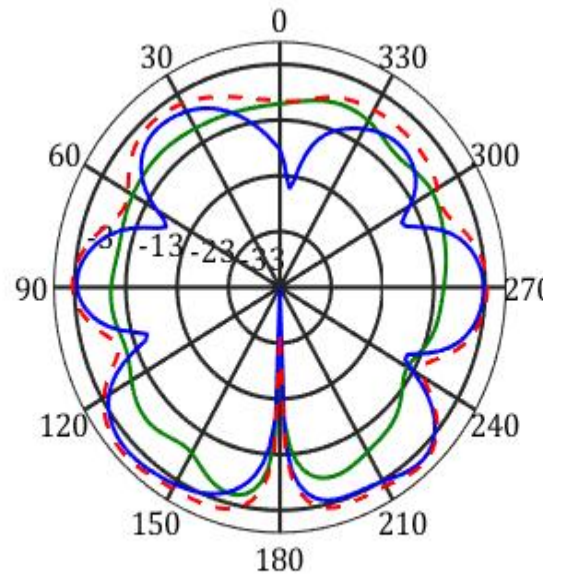
2D Pattern: @phi=0

frequency=2485MHz, X-Z Plane

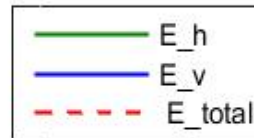
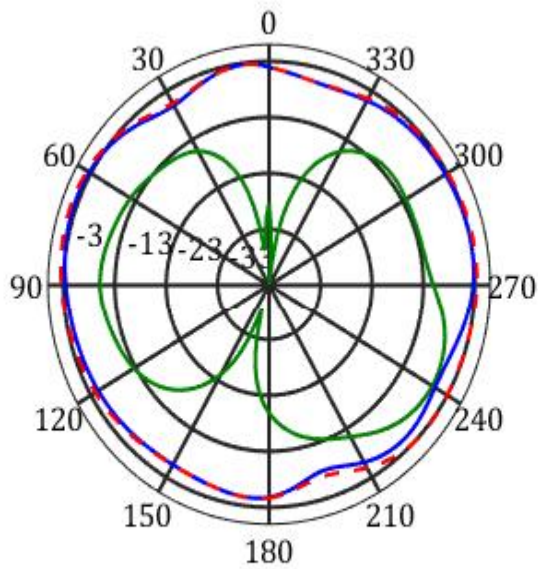


2D Pattern: @phi=90

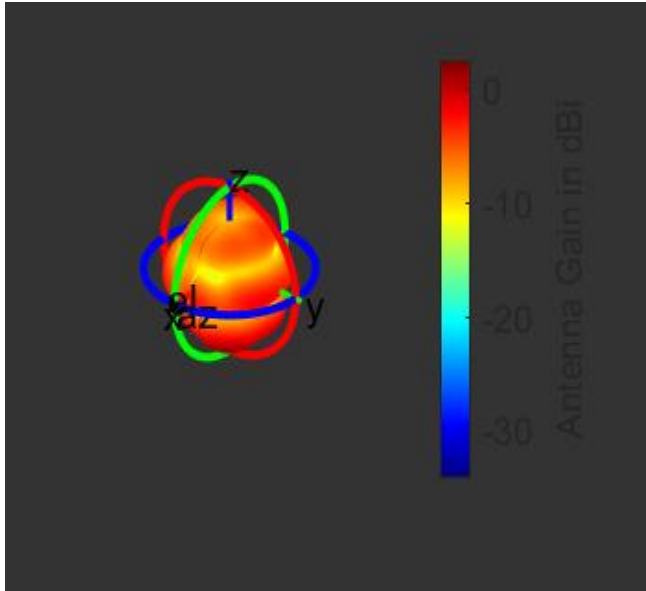
frequency=2485MHz, Y-Z Plane



frequency=2485MHz, X-Y Plane



3D Pattern:



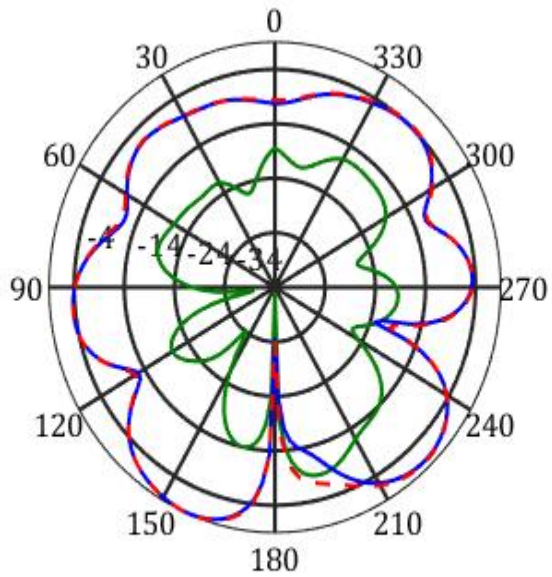
0

x-axis: red  
y-axis: green  
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-8.43	-4.73	-6.36
E <sub>v</sub> (max)	0.98	-1.24	-2.47
E <sub>total</sub> (max)	1.04	-0.38	-1.93
E <sub>h</sub> (min)	-42.89	-34.74	-42.81
E <sub>v</sub> (min)	-34.74	-42.89	-7.96
E <sub>total</sub> (min)	-34.12	-34.12	-6.97
E <sub>h</sub> (avg)	-20.8	-9.93	-12.62
E <sub>v</sub> (avg)	-6.73	-7.35	-4.65
E <sub>total</sub> (avg)	-6.45	-5.57	-3.66
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-166	166	-120
E <sub>v</sub> (max)	158	136	68
E <sub>total</sub> (max)	158	134	70
E <sub>h</sub> (min)	-180	-180	-6
E <sub>v</sub> (min)	180	180	-162
E <sub>total</sub> (min)	180	-180	-164
E <sub>h</sub> (3dB)	22.31	20.78	45.25
E <sub>v</sub> (3dB)	32.81	41.86	105.02
E <sub>total</sub> (3dB)	32.95	50.04	99.33

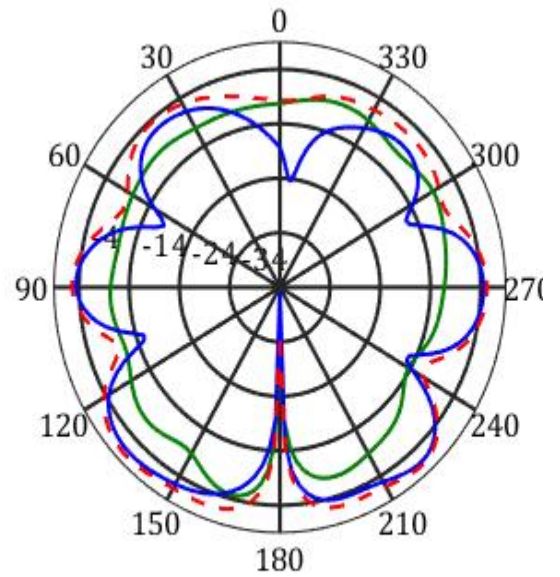
2D Pattern: @phi=0

frequency=2490MHz, X-Z Plane

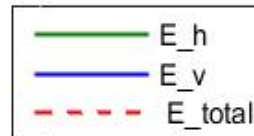
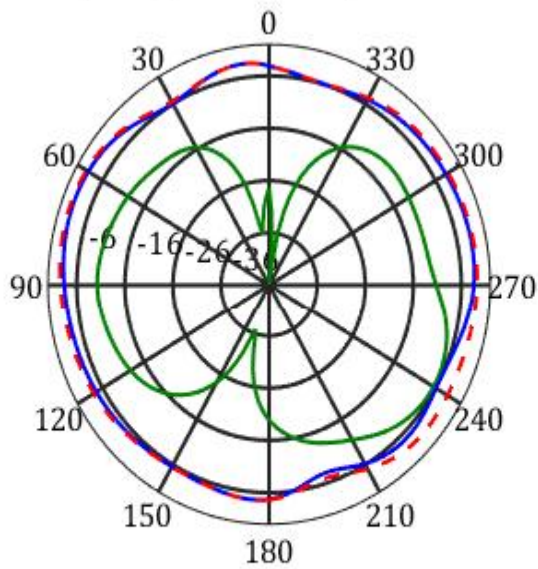


2D Pattern: @phi=90

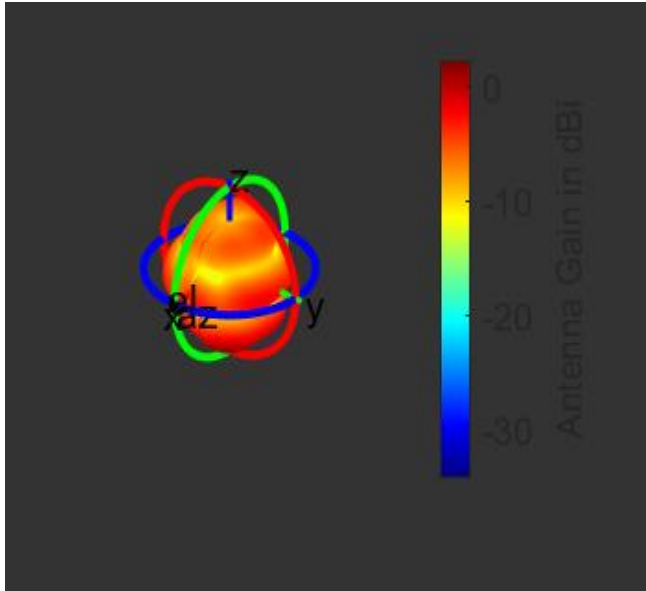
frequency=2490MHz, Y-Z Plane



frequency=2490MHz, X-Y Plane



3D Pattern:



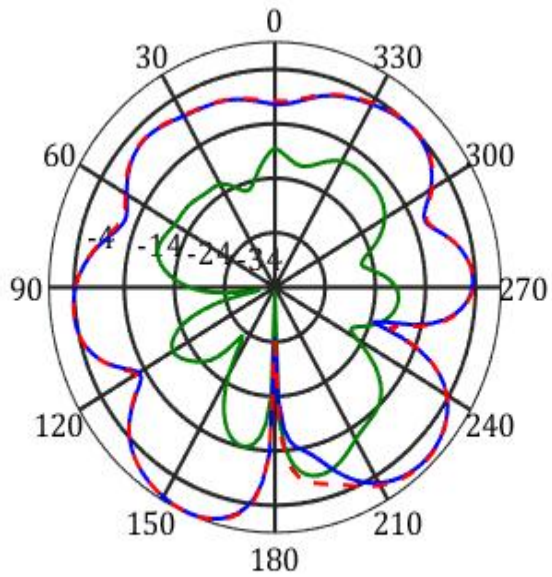
0

x-axis: red  
y-axis: green  
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-8.47	-4.72	-6.48
E <sub>v</sub> (max)	0.9	-1.32	-2.42
E <sub>total</sub> (max)	0.96	-0.48	-1.9
E <sub>h</sub> (min)	-43.21	-34.74	-45.8
E <sub>v</sub> (min)	-34.74	-43.21	-7.96
E <sub>total</sub> (min)	-34.16	-34.16	-6.99
E <sub>h</sub> (avg)	-20.81	-10	-12.71
E <sub>v</sub> (avg)	-6.68	-7.52	-4.65
E <sub>total</sub> (avg)	-6.48	-5.65	-3.71
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-166	166	-120
E <sub>v</sub> (max)	158	136	68
E <sub>total</sub> (max)	158	134	70
E <sub>h</sub> (min)	-180	-180	-6
E <sub>v</sub> (min)	180	180	-162
E <sub>total</sub> (min)	180	-180	-162
E <sub>h</sub> (3dB)	22.39	20.5	45.24
E <sub>v</sub> (3dB)	32.59	41.79	106.28
E <sub>total</sub> (3dB)	32.74	50.18	100.52

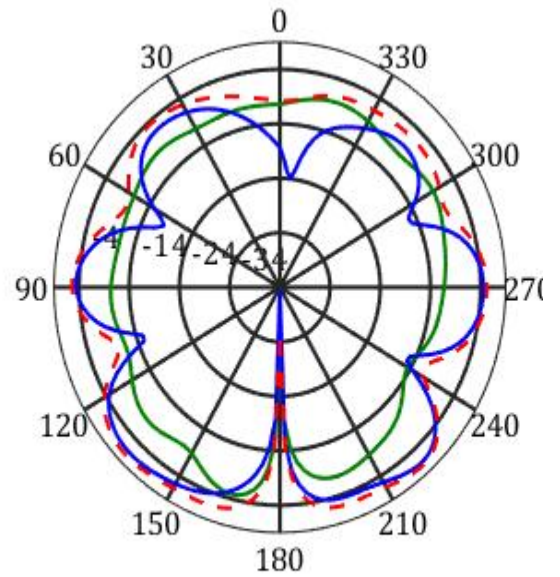
2D Pattern: @phi=0

frequency=2495MHz, X-Z Plane

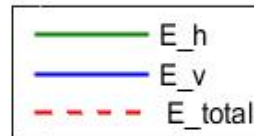
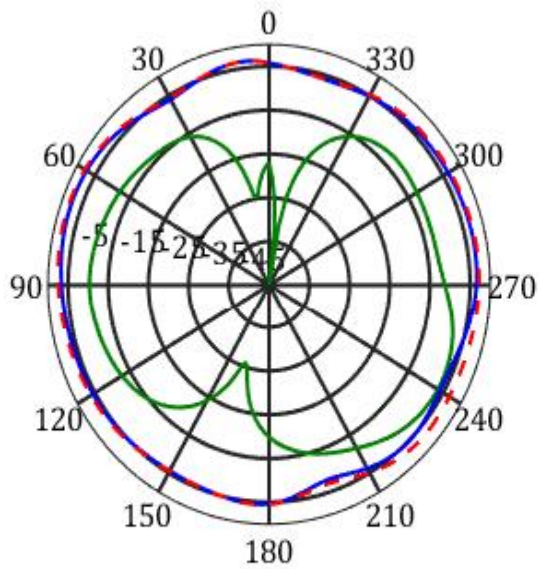


2D Pattern: @phi=90

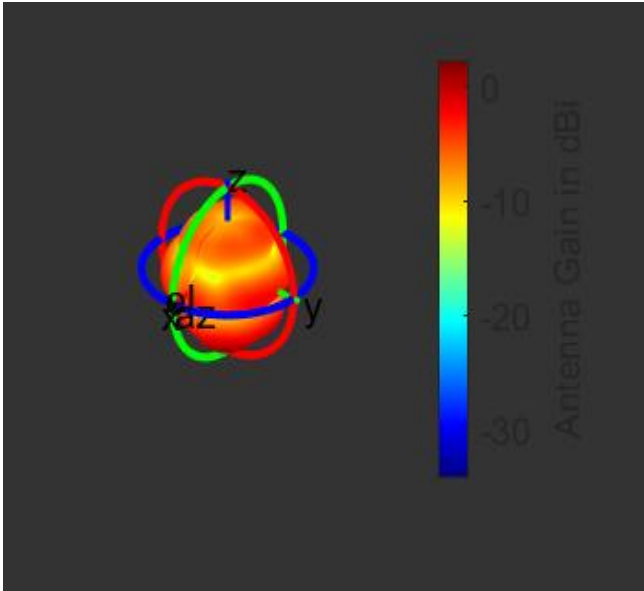
frequency=2495MHz, Y-Z Plane



frequency=2495MHz, X-Y Plane



3D Pattern:

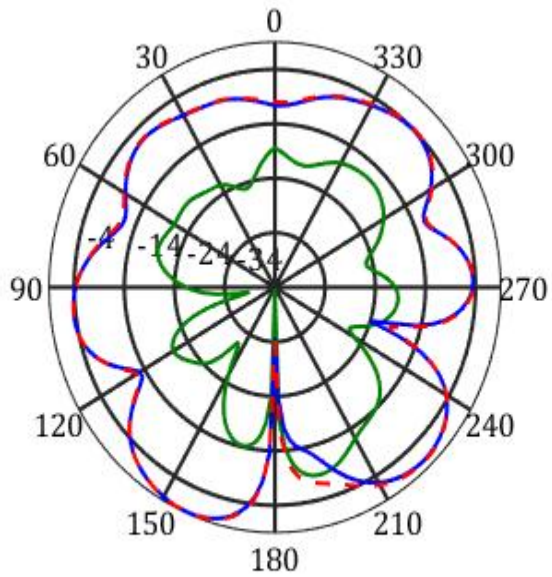


x-axis: red  
y-axis: green  
z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-8.43	-4.87	-6.53
E <sub>v</sub> (max)	0.83	-1.22	-2.43
E <sub>total</sub> (max)	0.89	-0.52	-1.92
E <sub>h</sub> (min)	-43.36	-34.83	-54.83
E <sub>v</sub> (min)	-34.83	-43.36	-7.83
E <sub>total</sub> (min)	-34.26	-34.26	-6.9
E <sub>h</sub> (avg)	-20.86	-10.06	-12.82
E <sub>v</sub> (avg)	-6.66	-7.58	-4.62
E <sub>total</sub> (avg)	-6.41	-5.65	-3.7
degree	X-Z plane	Y-Z plane	X-Y plane
E <sub>h</sub> (max)	-164	166	-120
E <sub>v</sub> (max)	156	-138	68
E <sub>total</sub> (max)	158	136	70
E <sub>h</sub> (min)	180	-180	-8
E <sub>v</sub> (min)	180	180	-162
E <sub>total</sub> (min)	180	-180	-162
E <sub>h</sub> (3dB)	22.42	20.73	45.33
E <sub>v</sub> (3dB)	32.4	39.21	108.98
E <sub>total</sub> (3dB)	32.58	49.77	102.2

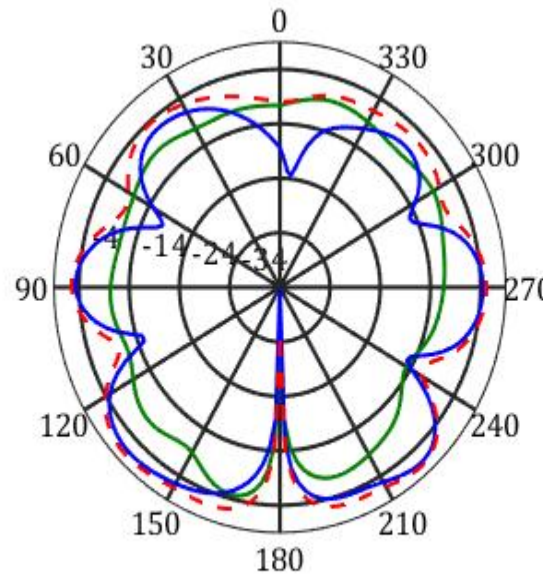
2D Pattern: @phi=0

frequency=2500MHz, X-Z Plane

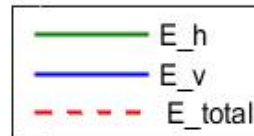
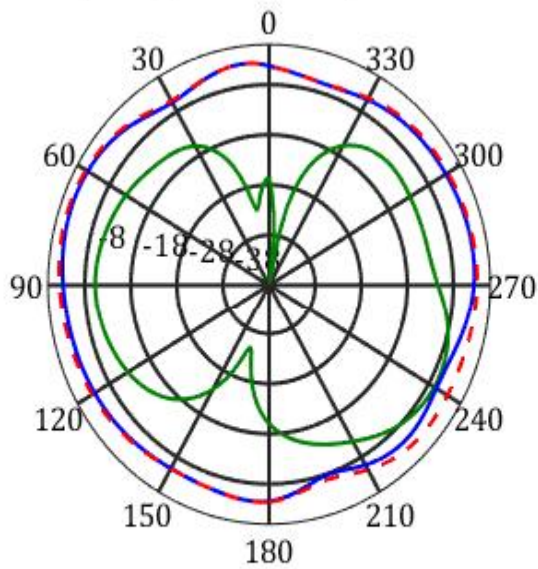


2D Pattern: @phi=90

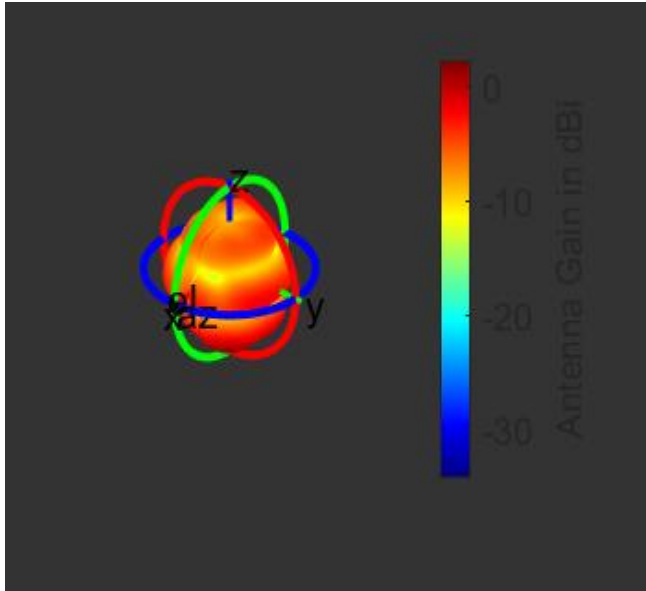
frequency=2500MHz, Y-Z Plane



frequency=2500MHz, X-Y Plane



### 3D Pattern:



0

x-axis: red

y-axis: green

z-axis: blue

dBi	X-Z plane	Y-Z plane	X-Y plane
E_h(max)	-8.48	-4.74	-6.6
E_v(max)	0.78	-1.26	-2.37
E_total(max)	0.84	-0.54	-1.85
E_h(min)	-43.67	-34.75	-47.63
E_v(min)	-34.75	-43.67	-7.76
E_total(min)	-34.22	-34.22	-6.88
E_h(avg)	-20.73	-10.18	-12.89
E_v(avg)	-6.61	-7.67	-4.57
E_total(avg)	-6.39	-5.76	-3.69
degree	X-Z plane	Y-Z plane	X-Y plane
E_h(max)	-166	166	-118
E_v(max)	156	-138	68
E_total(max)	158	136	70
E_h(min)	180	-180	-10
E_v(min)	180	-180	-162
E_total(min)	180	-180	-162
E_h(3dB)	22.06	20.15	45.35
E_v(3dB)	32.25	38.4	113.06
E_total(3dB)	32.43	49.73	103.86