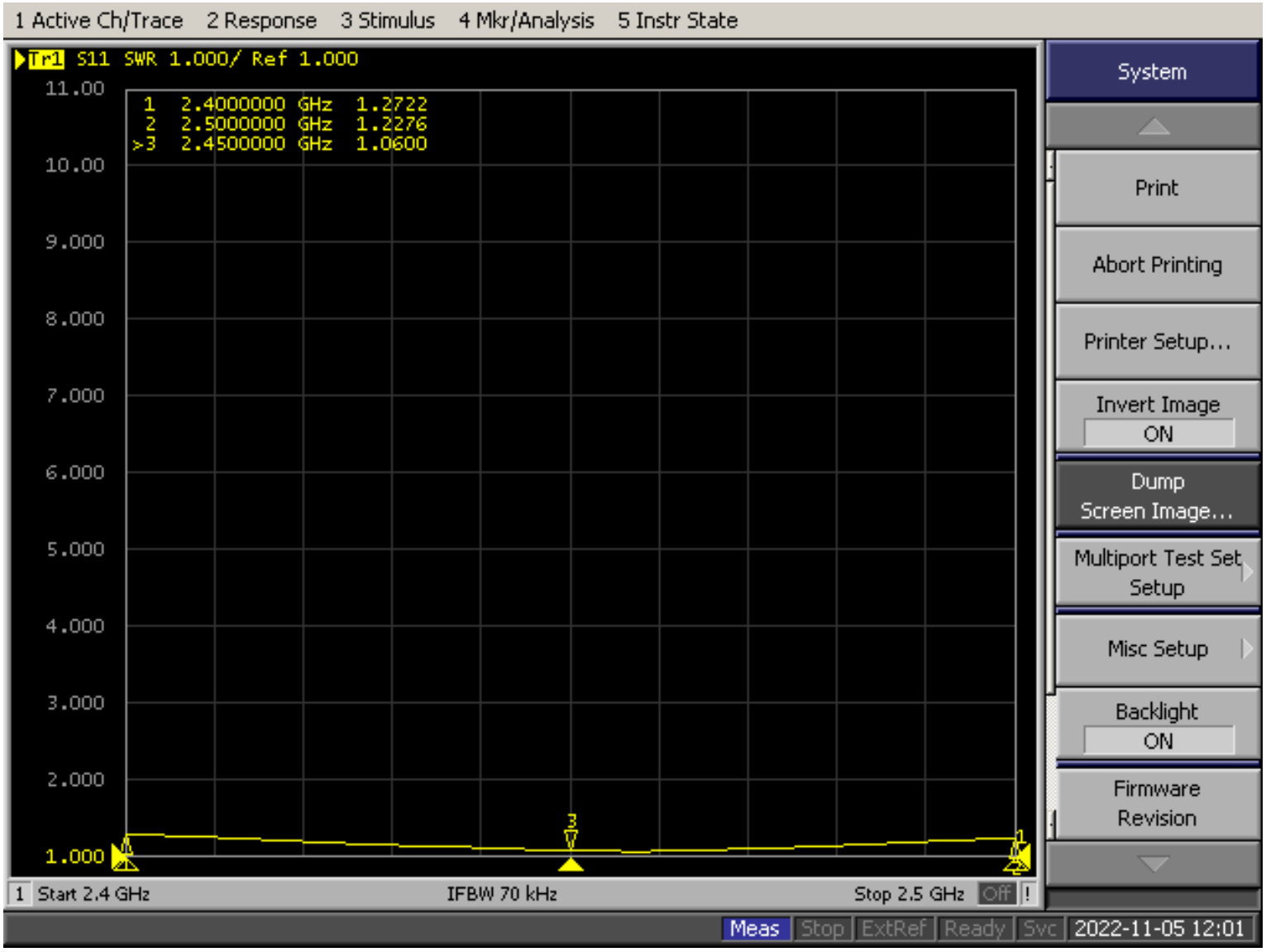
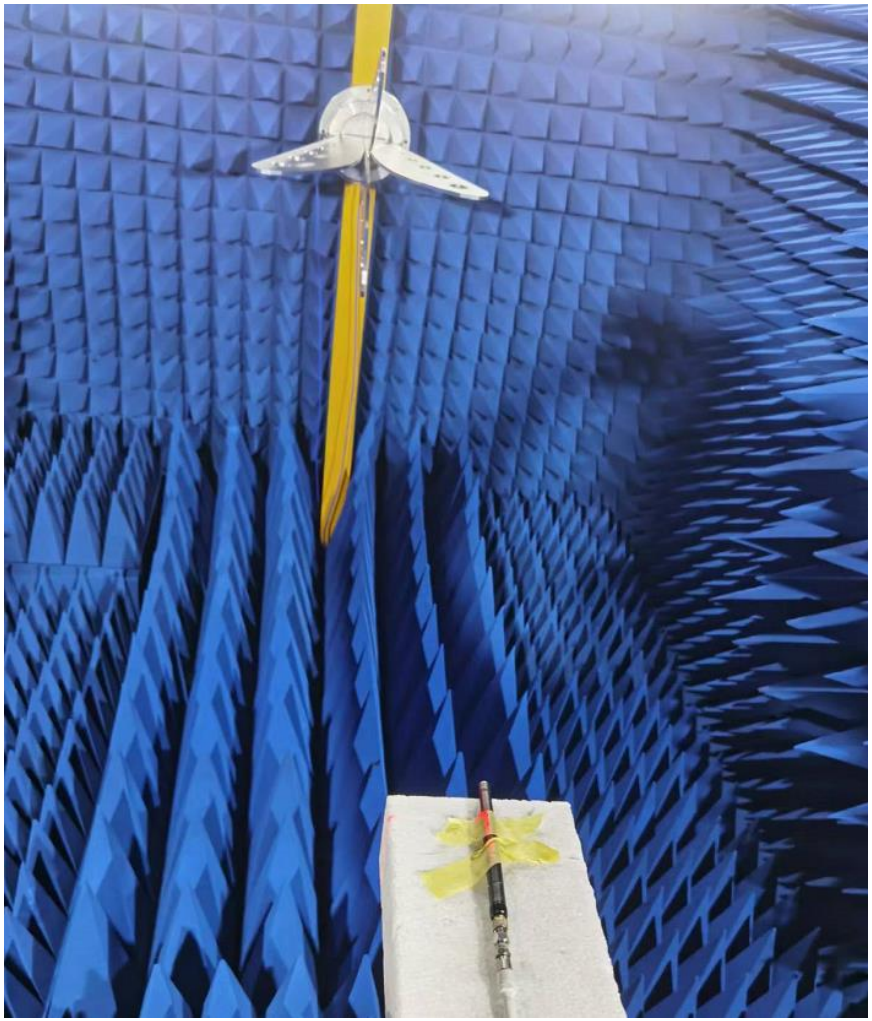
72000076 天线测试报告

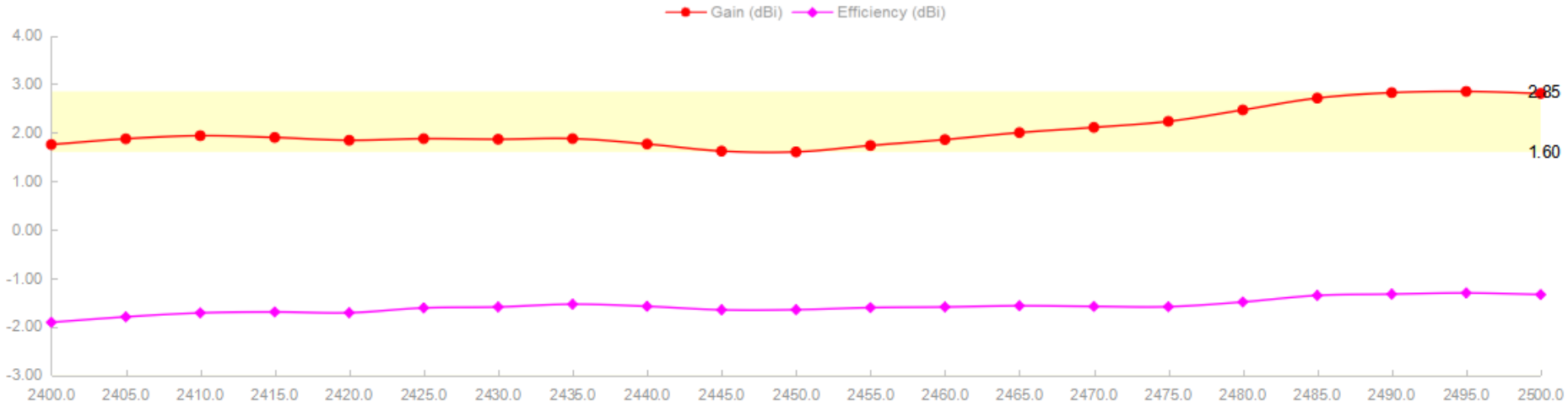
1. 天线驻波比测试

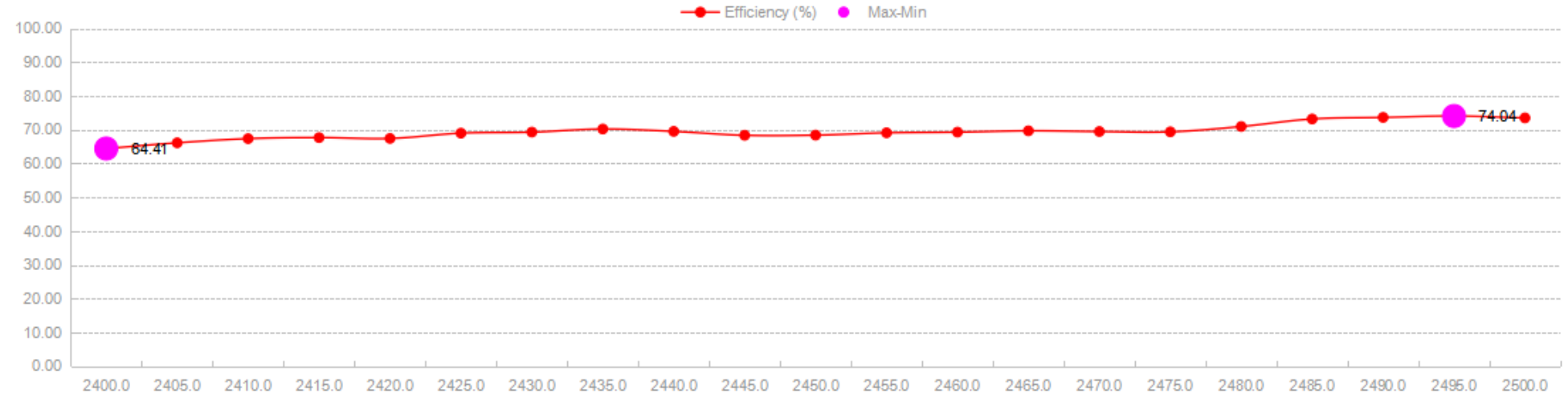


2. 天线暗室测试报告



Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Frequency (MHz)	2400.0	2405.0	2410.0	2415.0	2420.0	2425.0	2430.0	2435.0	2440.0	2445.0	2450.0	2455.0	2460.0	2465.0	2470.0	2475.0	2480.0	2485.0	2490.0	2495.0	2500.0
Efficiency (dBi)	-1.91	-1.80	-1.72	-1.70	-1.71	-1.61	-1.59	-1.54	-1.58	-1.65	-1.65	-1.61	-1.59	-1.57	-1.58	-1.59	-1.49	-1.36	-1.33	-1.31	-1.34
Gain (dBi)	1.75	1.87	1.94	1.90	1.84	1.88	1.86	1.88	1.77	1.62	1.60	1.73	1.86	2.00	2.11	2.23	2.47	2.71	2.82	2.85	2.81
Efficiency (%)	64.41	66.10	67.34	67.65	67.40	68.97	69.27	70.19	69.48	68.33	68.38	69.07	69.27	69.66	69.45	69.36	70.93	73.16	73.63	74.04	73.48
Directivity (dB)	3.67	3.67	3.65	3.60	3.56	3.49	3.46	3.41	3.35	3.27	3.25	3.34	3.45	3.57	3.69	3.82	3.96	4.07	4.15	4.16	4.14
Peak Gain Position (Theta)	150.00	150.00	150.00	150.00	150.00	60.00	45.00	45.00	45.00	45.00	45.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
Peak Gain Position (Phi)	225.00	225.00	225.00	225.00	225.00	150.00	195.00	195.00	195.00	195.00	195.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00
Efficiency ThetaPol (%)	53.45	55.30	56.48	56.58	56.07	57.68	58.43	59.60	58.78	57.61	57.86	58.94	59.68	60.13	59.67	59.41	61.23	63.83	64.61	64.97	64.56
Efficiency PhiPol (%)	10.96	10.80	10.86	11.06	11.33	11.29	10.84	10.59	10.70	10.73	10.52	10.13	9.59	9.53	9.78	9.95	9.70	9.33	9.02	9.07	8.92
Upper Hem. Efficiency (%)	34.16	35.38	36.25	36.55	36.52	37.59	38.00	38.76	38.53	38.09	38.45	39.29	39.86	40.41	40.51	40.68	41.90	43.49	43.94	44.22	43.88
Lower Hem. Efficiency (%)	30.25	30.72	31.09	31.10	30.87	31.38	31.28	31.43	30.96	30.24	29.93	29.78	29.41	29.25	28.94	28.68	29.03	29.67	29.69	29.82	29.60





Guangdong Yiri Lighting Technology Co., Ltd

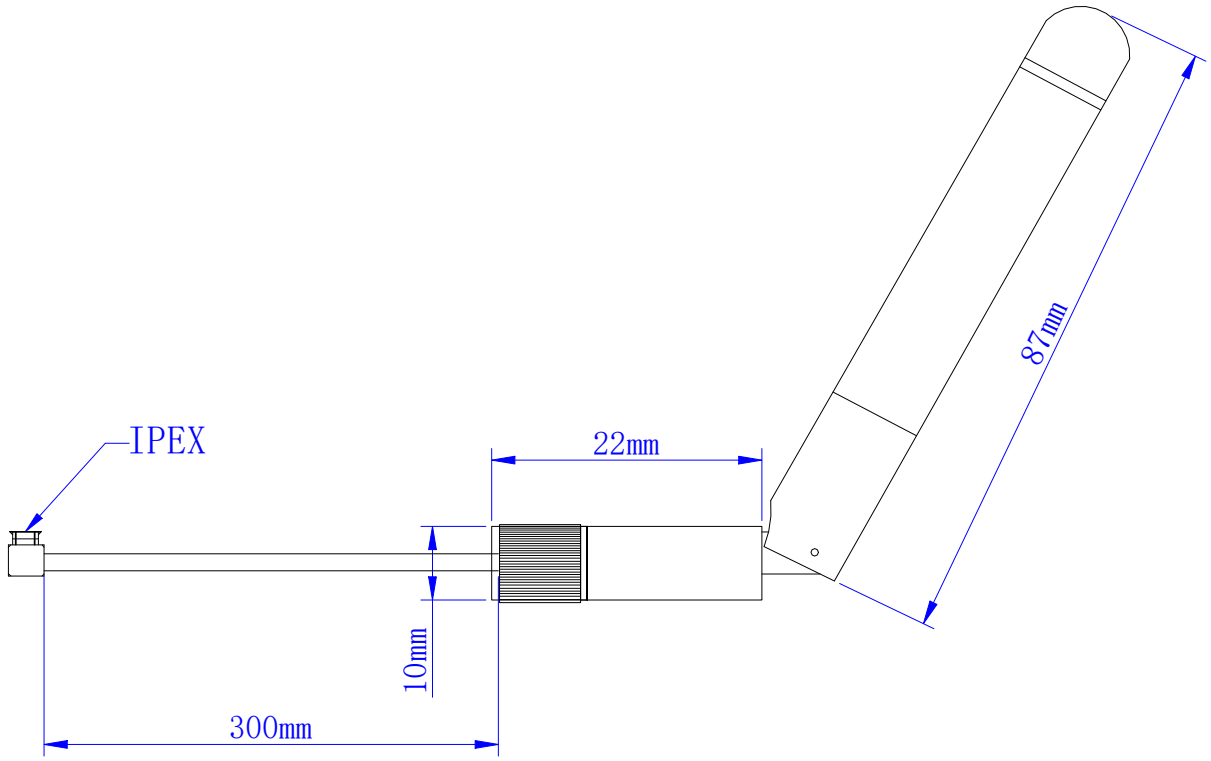
No.	Modification	modification date
1		
2		

No:72000076 External antenna

Specification description	quantity
RG1.13 A gray wire with an input impedance of 50 Ω, a 300MM long connecting wire, one end with an IPEX plug, and the other end with a nut and gasket.	1

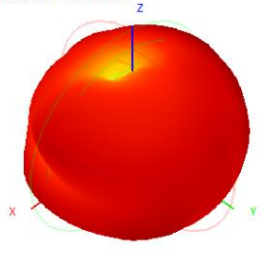
Electrical performance:

1. Frequency Range: 2400-2500MHz
2. Antenna Gain: 1.75~2.81dBi
3. Operating temperature:-20℃ to 85℃
4. Degree of protection: IP20

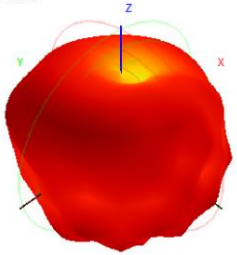


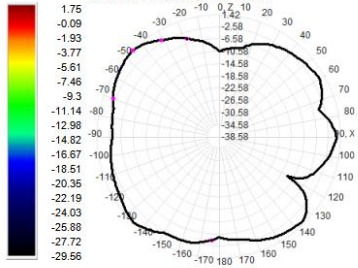
Controlled original/copy:	Company seal:				size	MM
		approval				
		examine	黄集胜	22.11.05	page	1
		author	刘家俊	22.11.05	Revision	V1

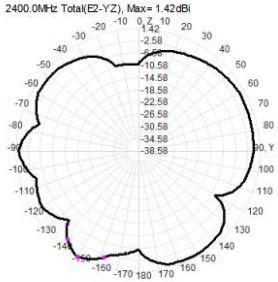
2400.0MHz H+V, Eff: 64.4%

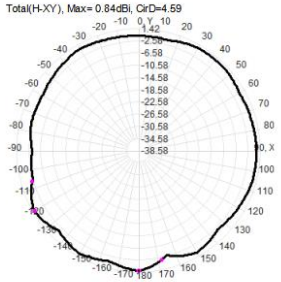


Back View

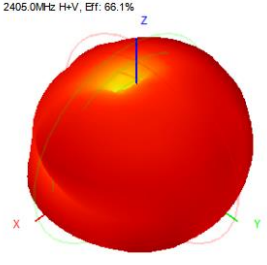




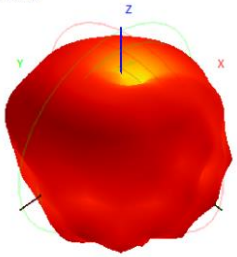


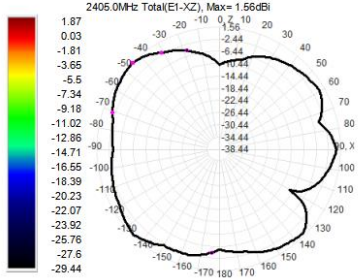


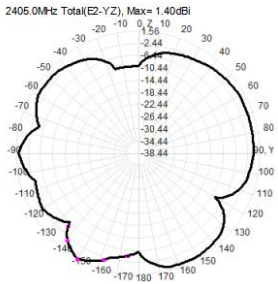
2405.0MHz H+V, Eff: 66.1%

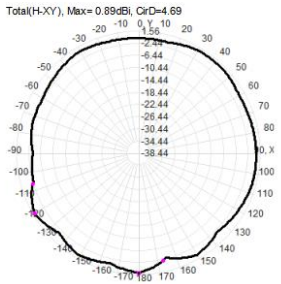


Back View

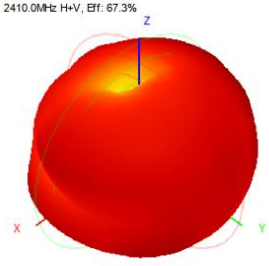








2410.0MHz H+V, Eff: 67.3%



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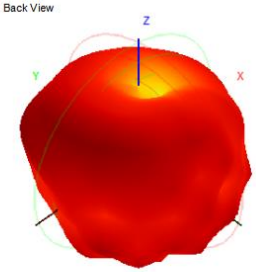
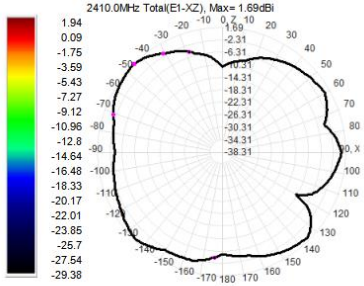
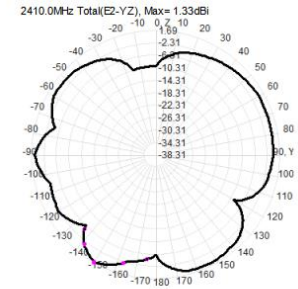
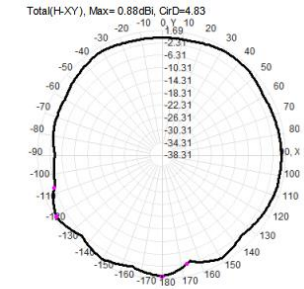
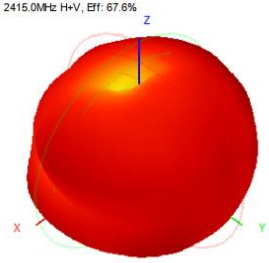








2415.0MHz H+V, Eff: 67.6%



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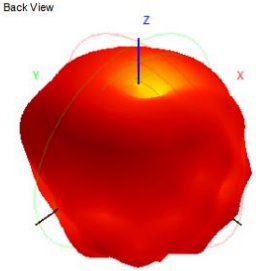
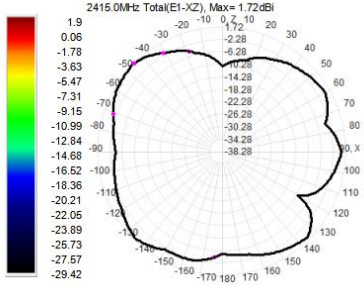
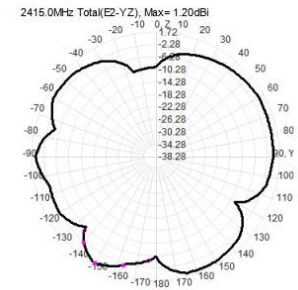
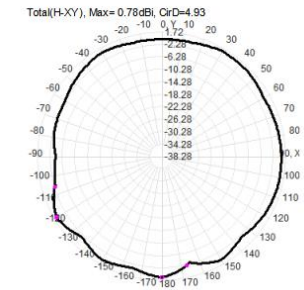
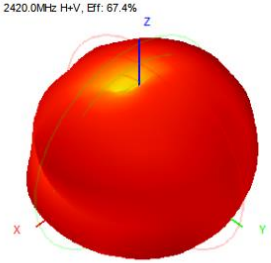




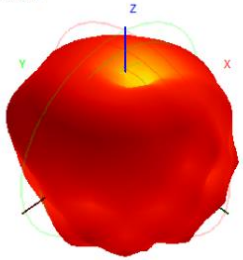


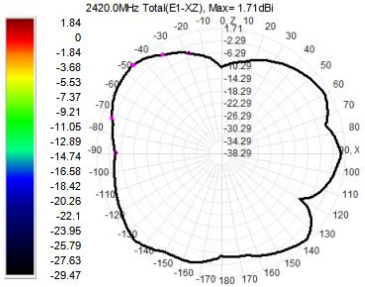


2420.0MHz H+V, Eff: 67.4%



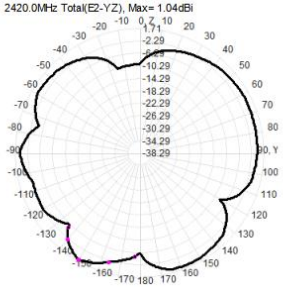
Back View



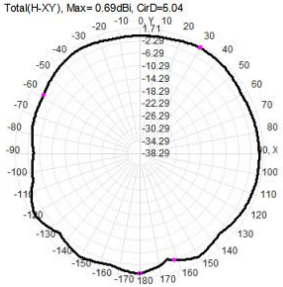


2420.0MHz Total(E1-XZ), Max= 1.71dBi

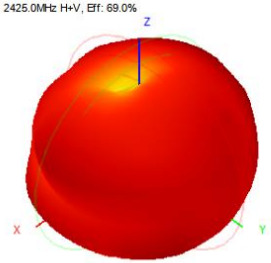
2420.0MHz Total(E2-YZ), Max= 1.04dBi



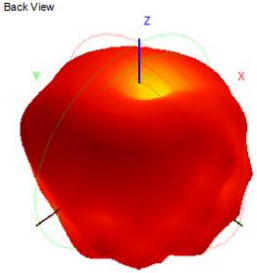
Total(H-XY), Max= 0.69dBi, CirD=5.04

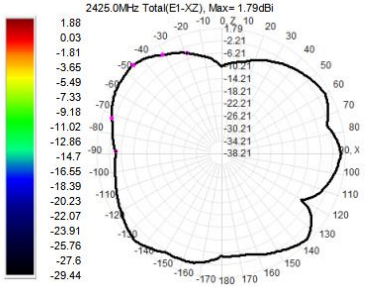


2425.0MHz H+V, Eff: 69.0%



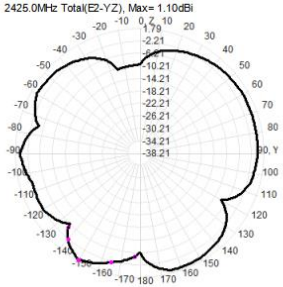
Back View



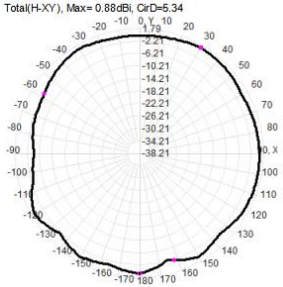


2425.0MHz Total(E1-XZ), Max= 1.79dBi

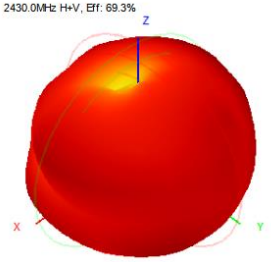
2425.0MHz Total(E2-YZ), Max= 1.10dBi



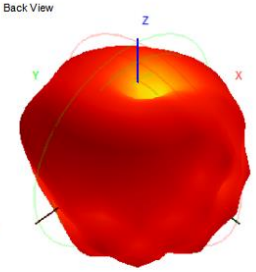
Total(H-XY), Max= 0.88dBi, CirD=5.34

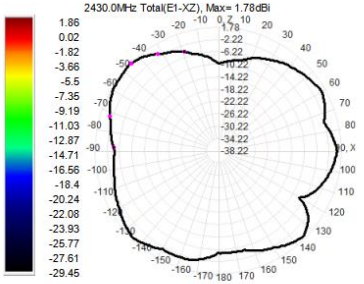


2430.0MHz H+V, Eff: 69.3%



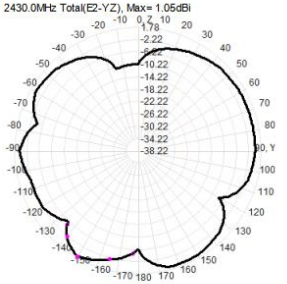
Back View



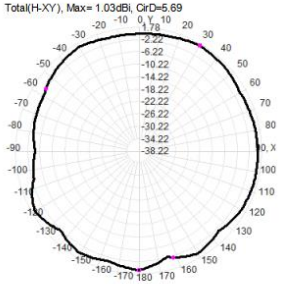


2430.0MHz Total(E1-XZ), Max= 1.78dBi

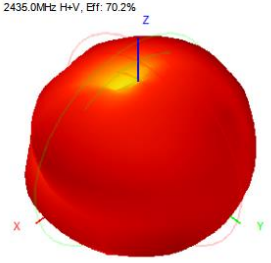
2430.0MHz Total(E2-YZ), Max= 1.05dBi



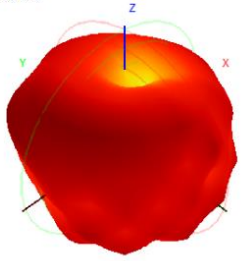
Total(H-XY), Max= 1.03dBi, CirD=5.69

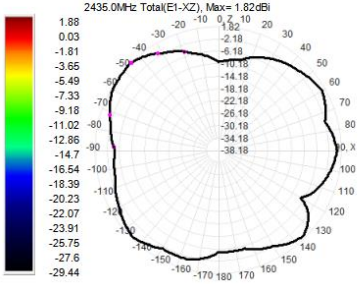


2435.0MHz H+V, Eff: 70.2%



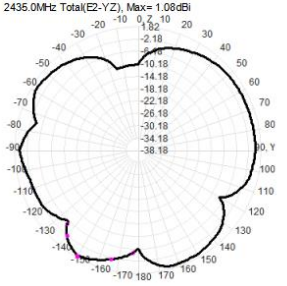
Back View



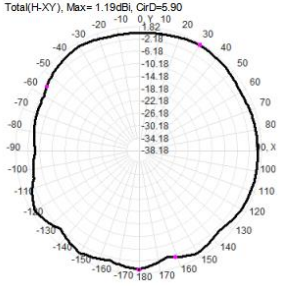


2435.0MHz Total(E1-XZ), Max= 1.82dBi

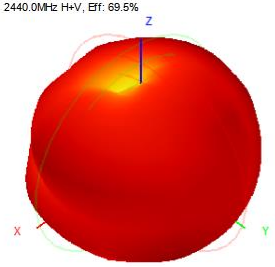
2435.0MHz Total(E2-YZ), Max= 1.08dBi



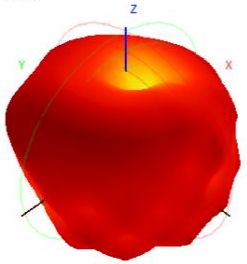
Total(H-XY), Max= 1.19dBi, CirD=5.90



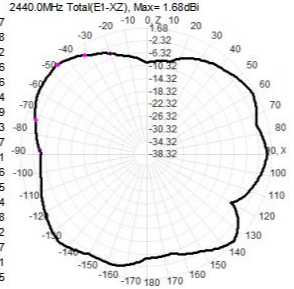
2440.0MHz H+V, Eff: 69.5%



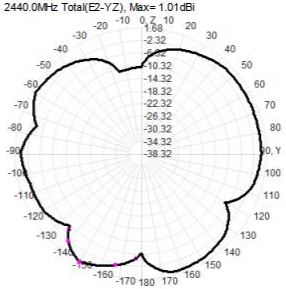
Back View



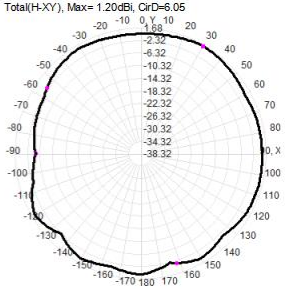
2440.0MHz Total(E1-XZ), Max= 1.68dBi



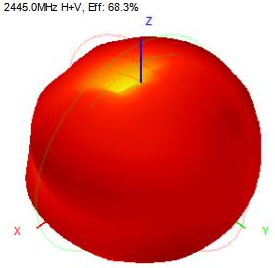
2440.0MHz Total(E2-YZ), Max= 1.01dBi



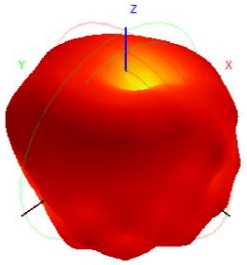
Total(H-XY), Max= 1.20dBi, CirD=6.05



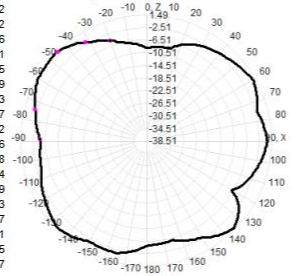
2445.0MHz H+V, Eff: 68.3%



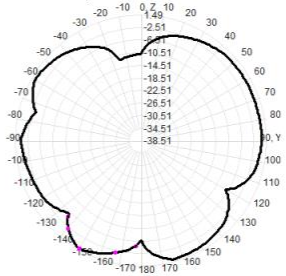
Back View



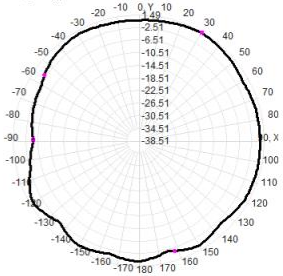
2445.0MHz Total(E1-XZ), Max= 1.49dBi



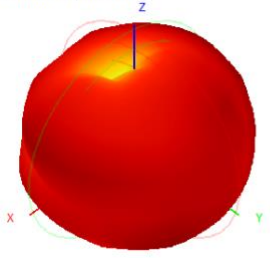
2445.0MHz Total(E2-YZ), Max= 0.92dBi



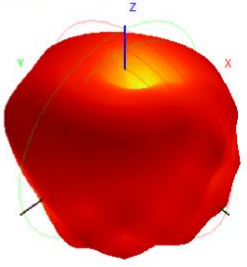
Total(H-XY), Max= 1.15dBi, CirD=6.13



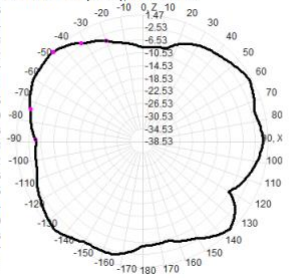
2450.0MHz H+V, Eff: 68.4%



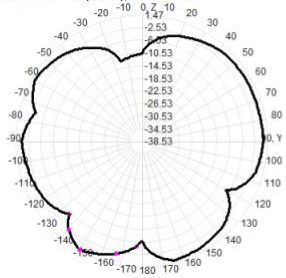
Back View



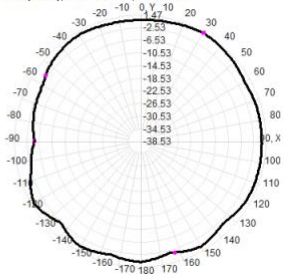
2450.0MHz Total(E1-XZ), Max= 1.47dBi



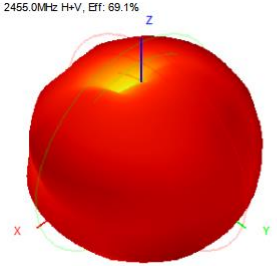
2450.0MHz Total(E2-YZ), Max= 0.88dBi



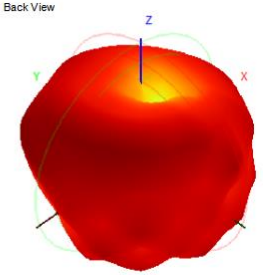
Total(H-XY), Max= 1.16dBi, CirD=6.08

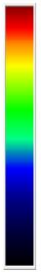


2455.0MHz H+V, Eff: 69.1%

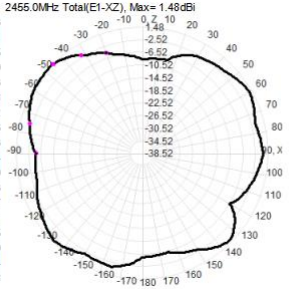


Back View

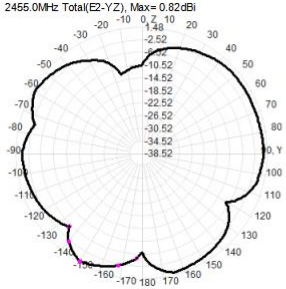




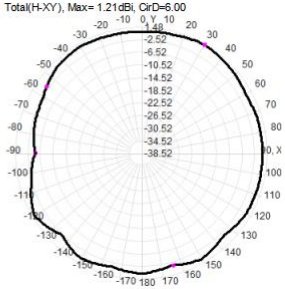
2455.0MHz Total(E1-XZ), Max= 1.48dBi



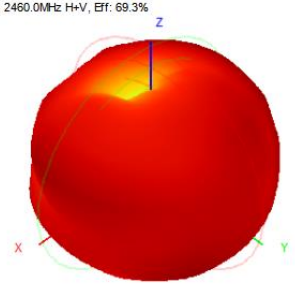
2455.0MHz Total(E2-YZ), Max= 0.82dBi



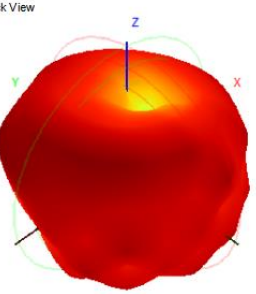
Total(H-XY), Max= 1.21dBi, CirD=6.00

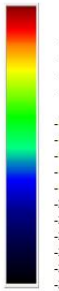


2460.0MHz H+V, Eff: 69.3%

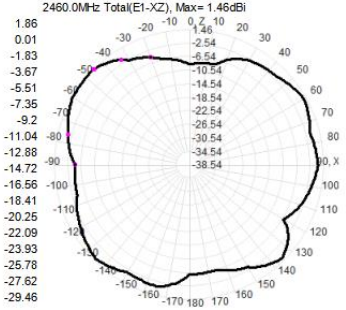


Back View

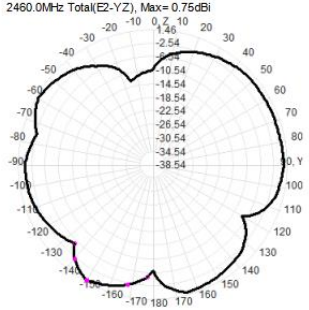




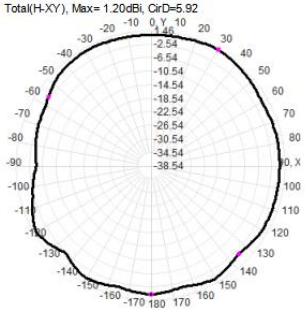
2460.0MHz Total(E1-XZ), Max= 1.46dBi



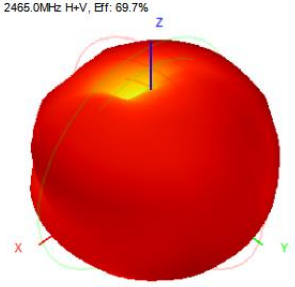
2460.0MHz Total(E2-YZ), Max= 0.75dBi



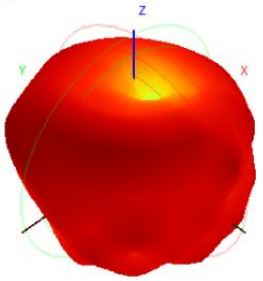
Total(H-XY), Max= 1.20dBi, CirD=5.92

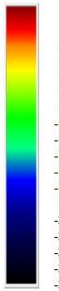


2465.0MHz H+V, Eff: 69.7%

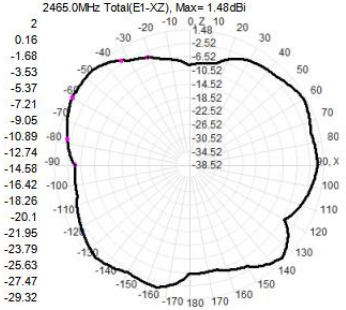


Back View

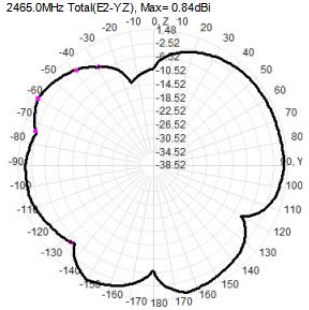




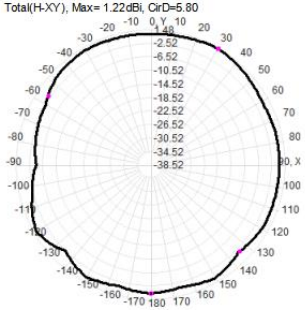
2465.0MHz Total(E1-XZ), Max= 1.48dBi



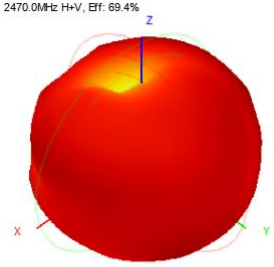
2465.0MHz Total(E2-YZ), Max= 0.84dBi



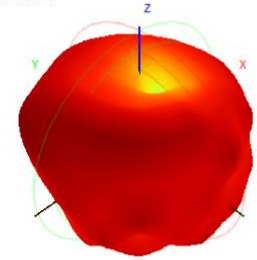
Total(H-XY), Max= 1.22dBi, CirD=5.80

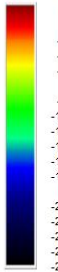


2470.0MHz H+V, Eff: 69.4%

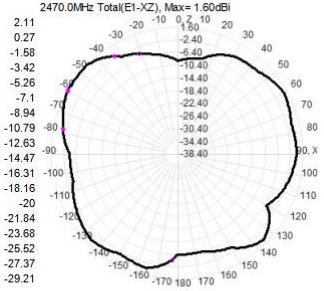


Back View

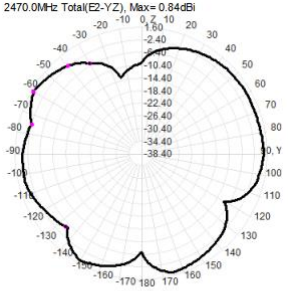




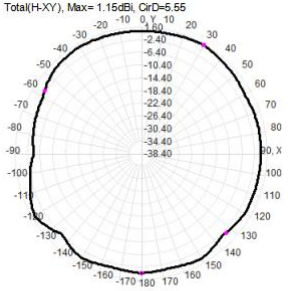
2470.0MHz Total(E1-XZ), Max= 1.60dBi



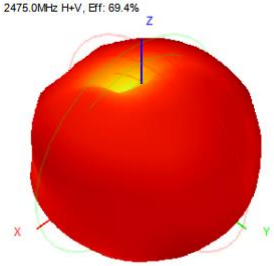
2470.0MHz Total(E2-YZ), Max= 0.84dBi



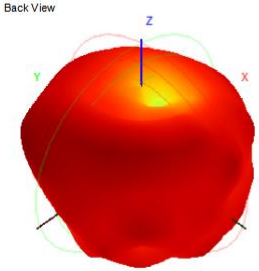
Total(H-XY), Max= 1.15dBi, CirD=5.55

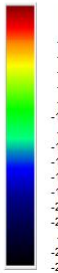


2475.0MHz H+V, Eff: 69.4%

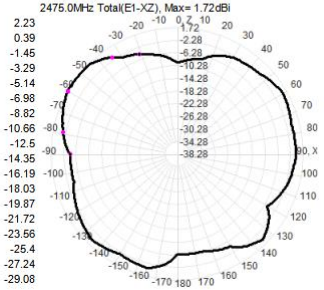


Back View

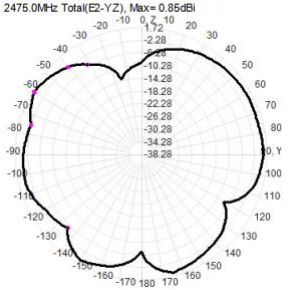




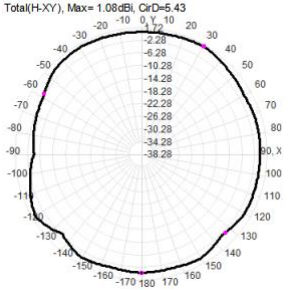
2475.0MHz Total(E1-XZ), Max= 1.72dBi



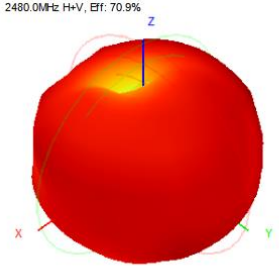
2475.0MHz Total(E2-YZ), Max= 0.85dBi



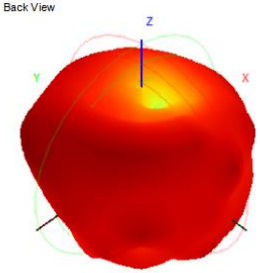
Total(H-XY), Max= 1.08dBi, CirD=5.43

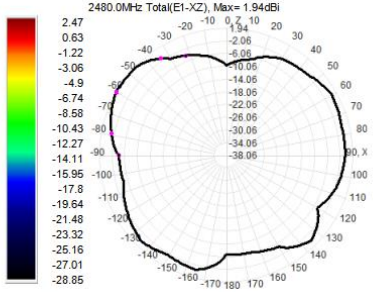


2480.0MHz H+V, Eff: 70.9%



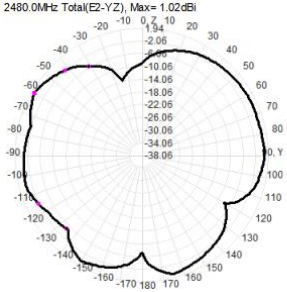
Back View



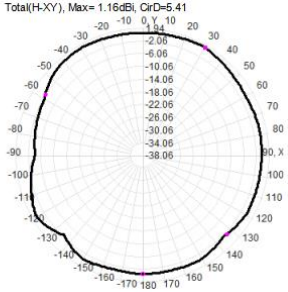


2480.0MHz Total(E1-XZ), Max= 1.94dBi

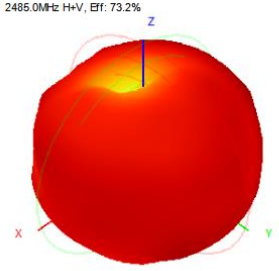
2480.0MHz Total(E2-YZ), Max= 1.02dBi



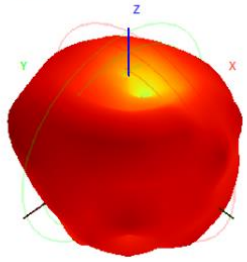
Total(H-XY), Max= 1.16dBi, CirD=5.41

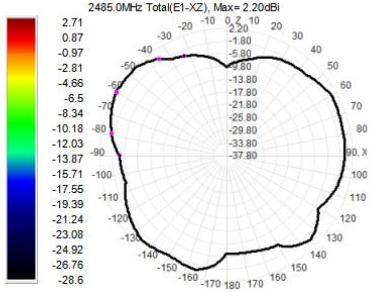


2485.0MHz H+V, Eff: 73.2%



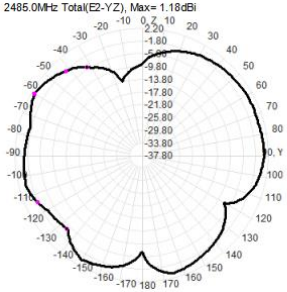
Back View



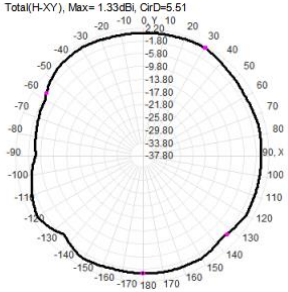


2485.0MHz Total(E1-XZ), Max= 2.20dBi

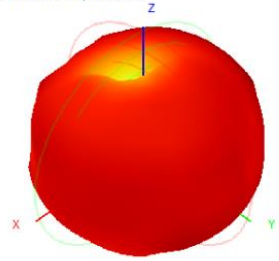
2485.0MHz Total(E2-YZ), Max= 1.18dBi



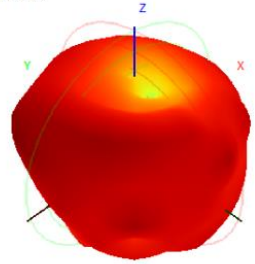
Total(H-XY), Max= 1.33dBi, CirD=5.51

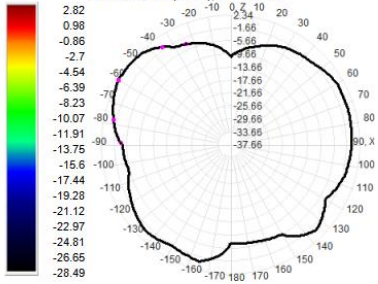


2490.0MHz H+V, Eff: 73.6%



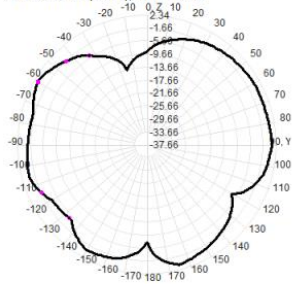
Back View



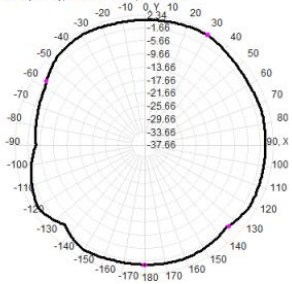


2490.0MHz Total(E1-XZ), Max= 2.34dBi

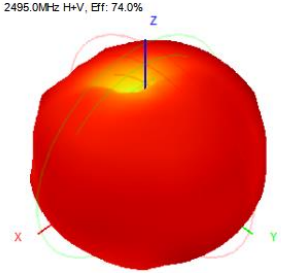
2490.0MHz Total(E2-YZ), Max= 1.26dBi



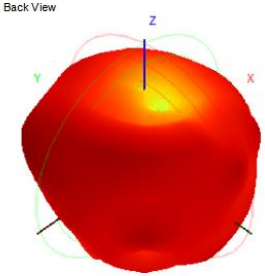
Total(H-XY), Max= 1.37dBi, CirD=5.60

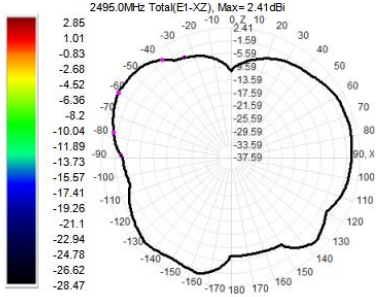


2495.0MHz H+V, Eff: 74.0%



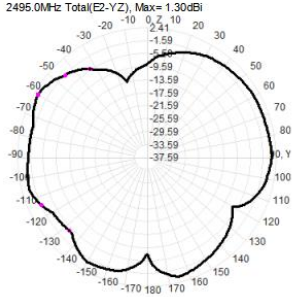
Back View



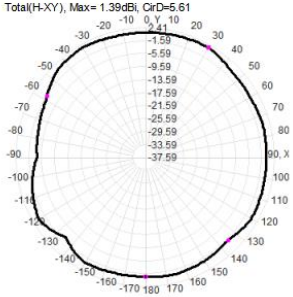


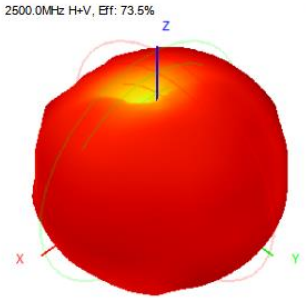
2495.0MHz Total(E1-XZ), Max= 2.41dBi

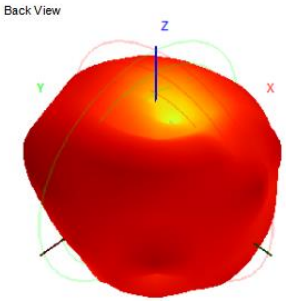
2495.0MHz Total(E2-YZ), Max= 1.30dBi



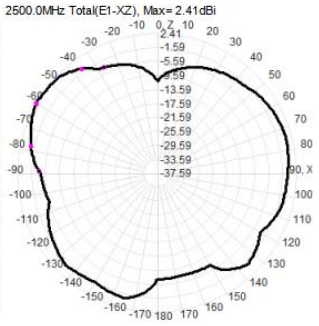
Total(H-XY), Max= 1.39dBi, CirD=5.61

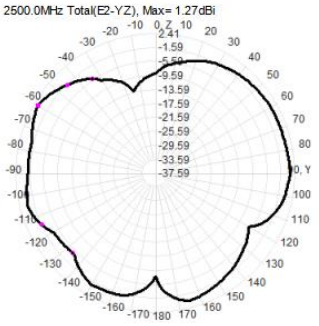


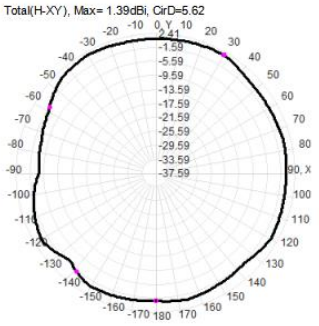

2500.0MHz H+V, Eff: 73.5%
Z
X
Y


Back View
Z
Y
X


2.81
0.96
-0.88
-2.72
-4.56
-6.4
-8.25
-10.09
-11.93
-13.77
-15.61
-17.46
-19.3
-21.14
-22.98
-24.83
-26.67
-28.51


2500.0MHz Total(E1-XZ), Max= 2.41dBi
2.41
-1.59
-5.59
-9.59
-13.59
-17.59
-21.59
-25.59
-29.59
-33.59
-37.59
0, Z
90, X


2500.0MHz Total(E2-YZ), Max= 1.27dBi
2.41
-1.59
-5.59
-9.59
-13.59
-17.59
-21.59
-25.59
-29.59
-33.59
-37.59
0, Y
90, Y


Total(H-XY), Max= 1.39dBi, CirD=5.62
2.41
-1.59
-5.59
-9.59
-13.59
-17.59
-21.59
-25.59
-29.59
-33.59
-37.59
0, Y
90, X