



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

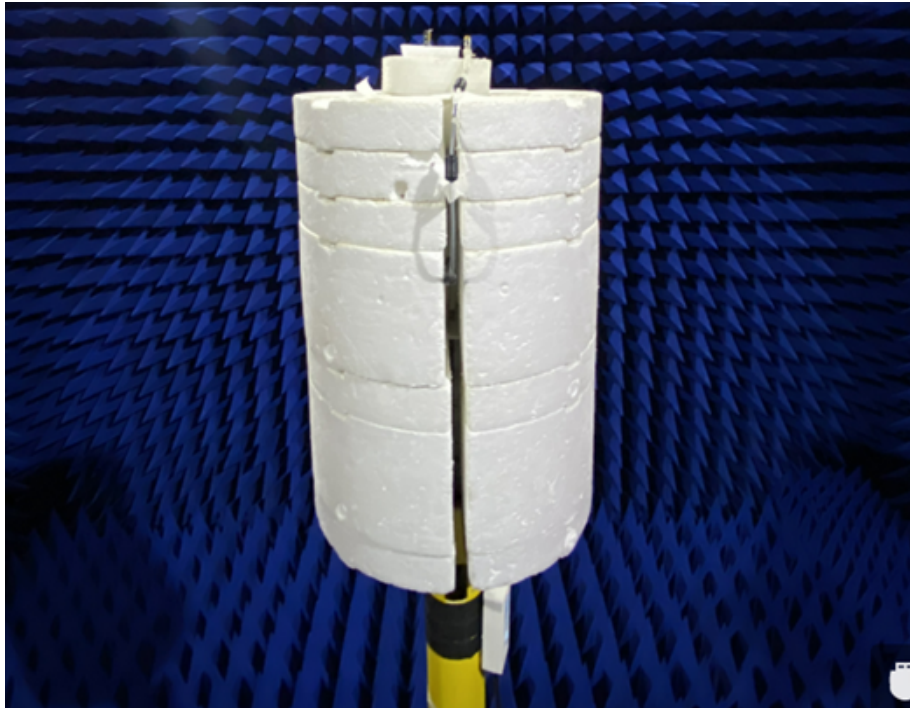
Room 101, Building 2, No. 9, Xinfu Road, Lincun,
Tangxia Town, Dongguan City, Guangdong Province

Antenna Study

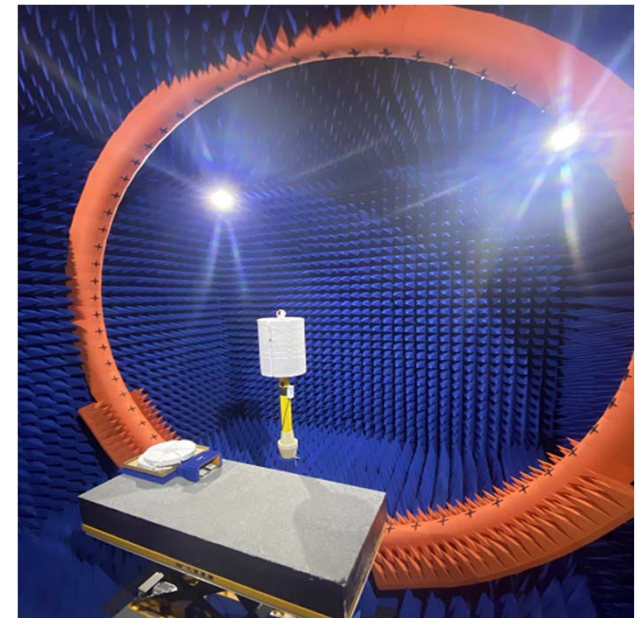
- Debugging frequency band: 2.4G+5.8G
- Valuation date: 2024.04.07

FPC Antenna

Dongguan UB Electronics Co., Ltd



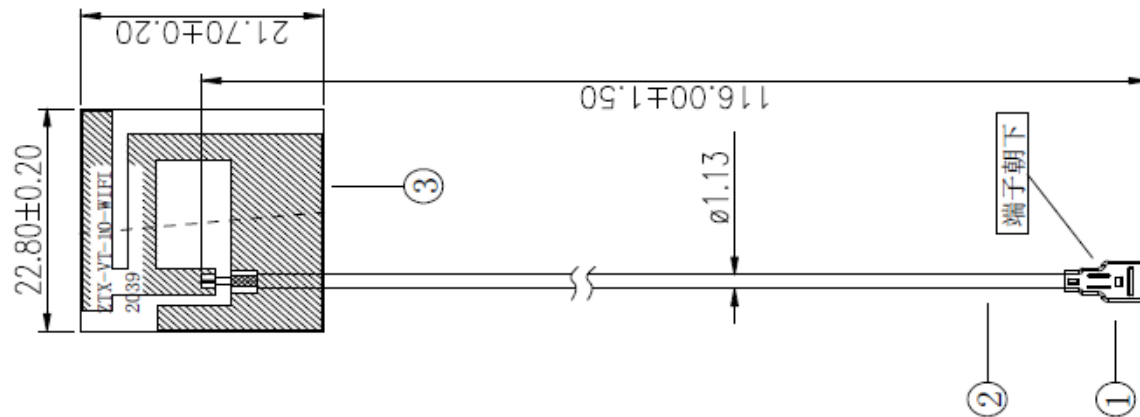
Testing environment



Testing 3D microwave darkroom(6m*6m*6m)

FPC Antenna

Dongguan UB Electronics Co., Ltd

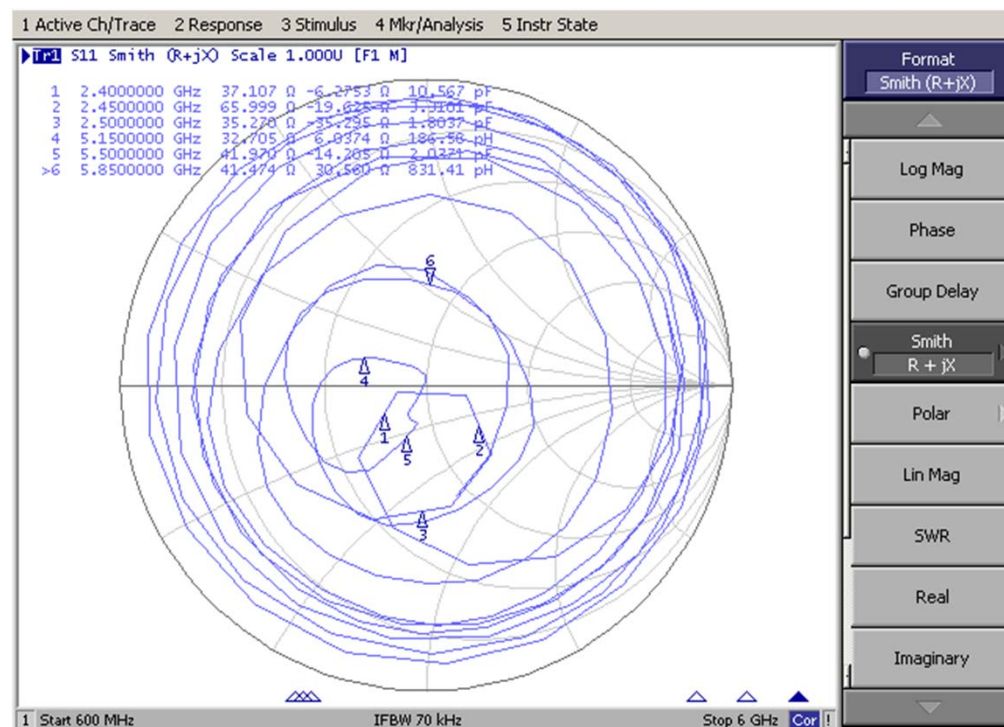
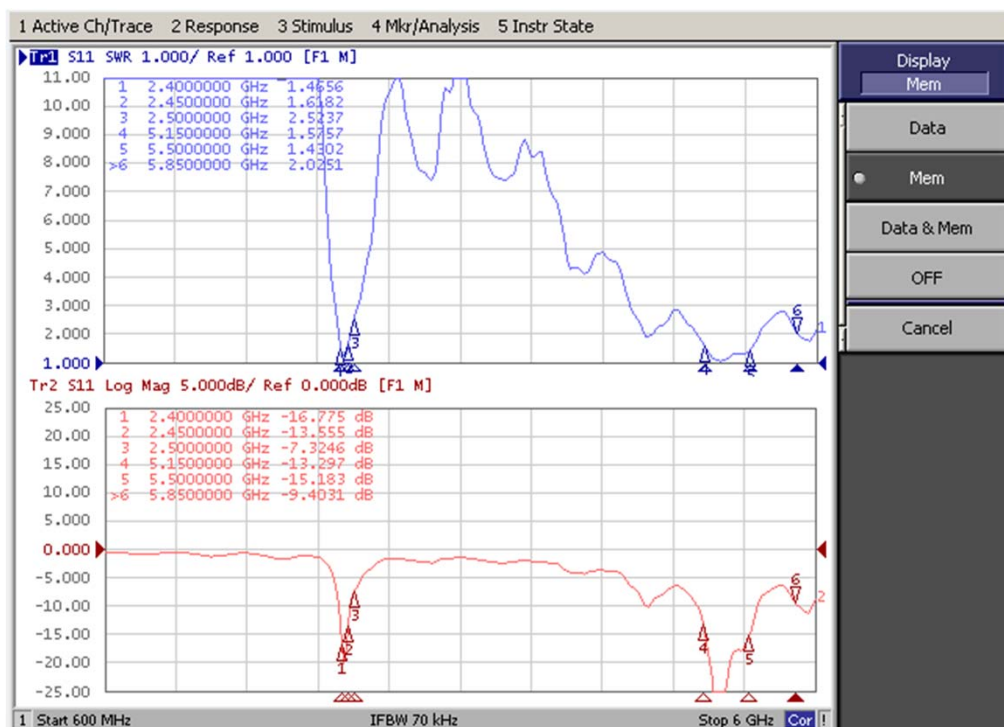


- Antenna name: 2.4G+5.8G
- Antenna Type: FPC
- Covers : 2400/2500MHz
- 5150/5850MHz

Antenna

S Parameter_Return Loss&VSWR-Smith

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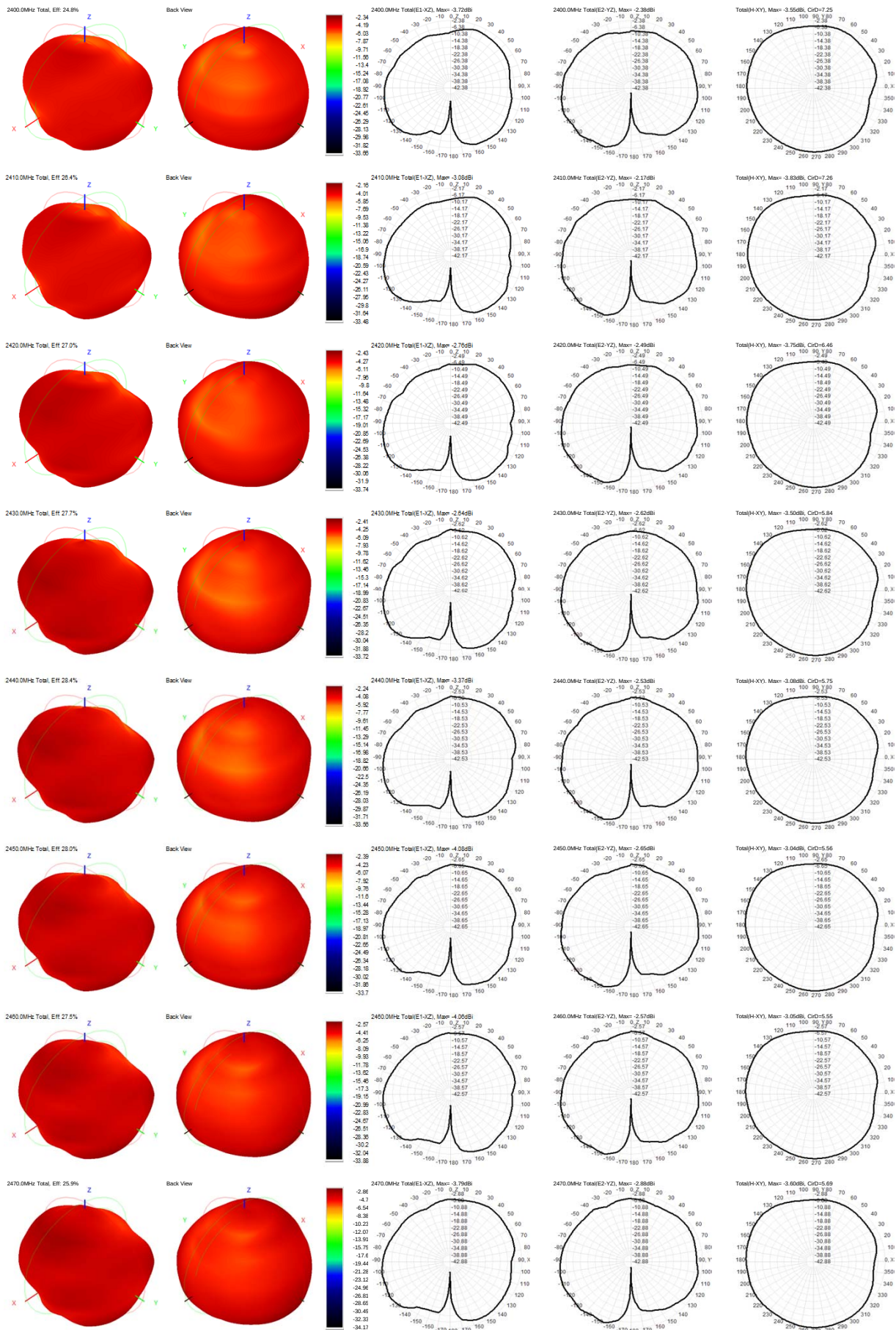


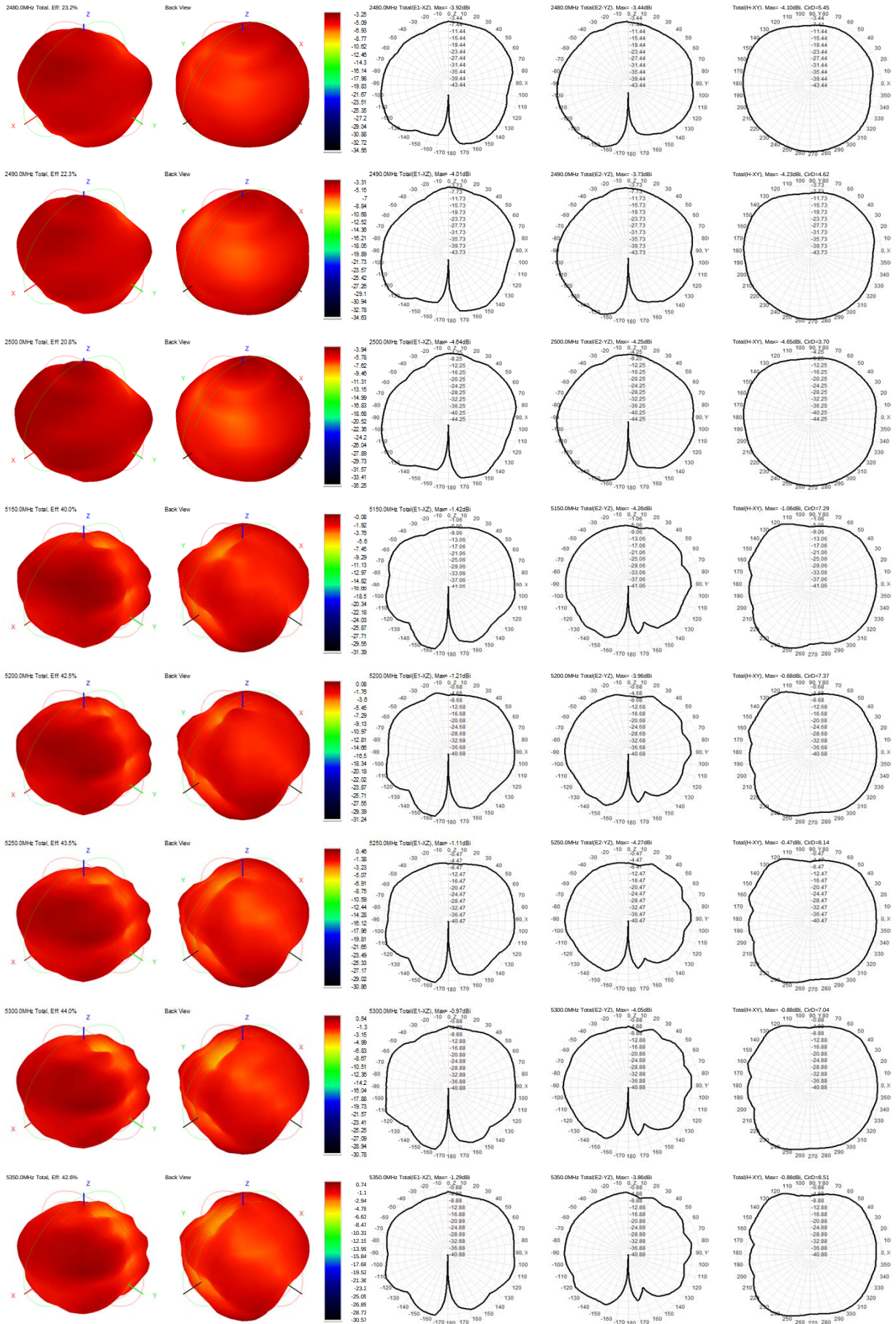
Efficiency and Gain

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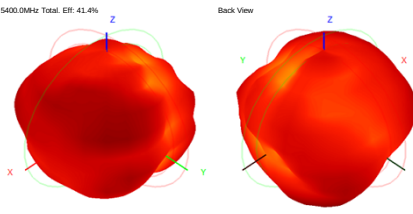
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-2.34	-2.16	-2.43	-2.41	-2.24	-2.39	-2.57	-2.86	-3.25	-3.31	-3.94
Efficiency (%)	24.85	26.37	27.02	27.75	28.42	28.02	27.53	25.87	23.20	22.26	20.83

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
-0.08	0.08	0.46	0.54	0.74	0.34	0.46	0.08	0.04	-0.65	-0.73	-0.19	0.35	0.20	0.71
40.03	42.55	43.50	43.96	42.65	41.36	39.58	38.15	35.34	31.38	30.18	31.41	32.18	32.66	34.44

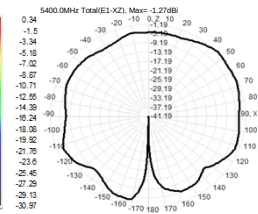
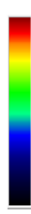




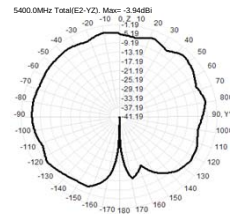
5400.0MHz Total Eff: 41.4%



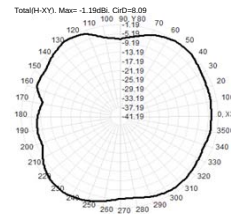
Back View



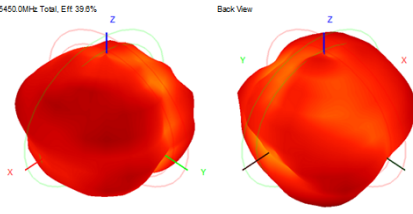
5400.0MHz Total(E2-YZ), Max=-3.94dBi



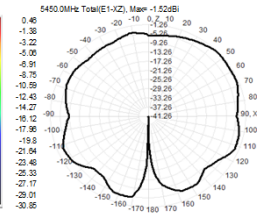
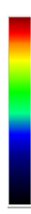
Total(H-XY), Max=-1.19dBi, C/D=8.09



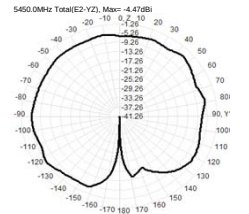
5450.0MHz Total Eff: 39.8%



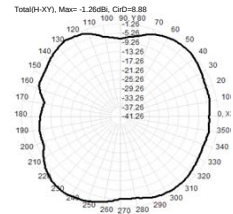
Back View



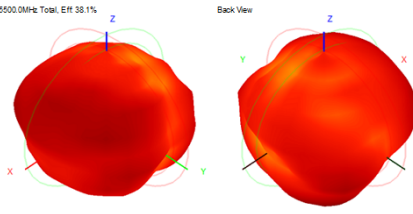
5450.0MHz Total(E2-YZ), Max=-4.47dBi



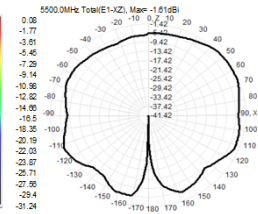
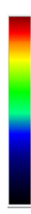
Total(H-XY), Max=-1.26dBi, C/D=8.88



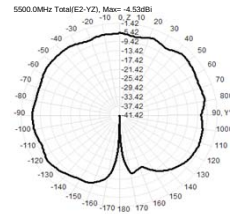
5500.0MHz Total Eff: 38.1%



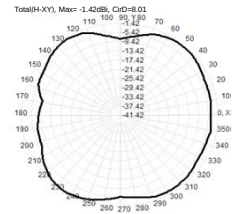
Back View



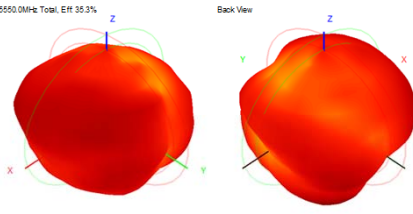
5500.0MHz Total(E2-YZ), Max=-4.53dBi



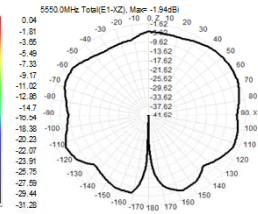
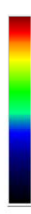
Total(H-XY), Max=-1.42dBi, C/D=8.01



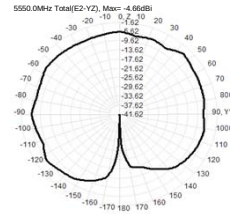
5550.0MHz Total Eff: 35.3%



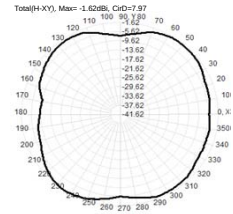
Back View



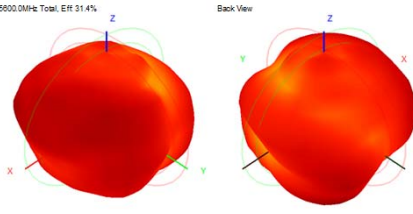
5550.0MHz Total(E2-YZ), Max=-4.66dBi



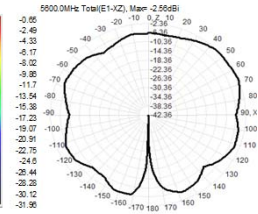
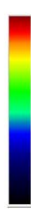
Total(H-XY), Max=-1.63dBi, C/D=7.97



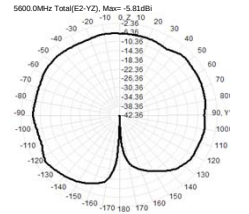
5600.0MHz Total Eff: 31.4%



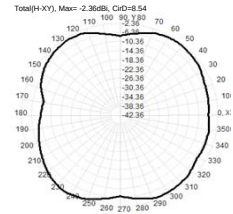
Back View



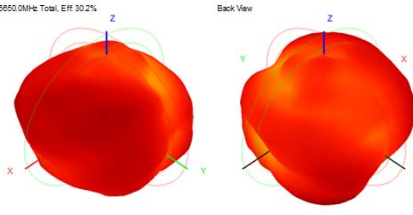
5600.0MHz Total(E2-YZ), Max=-5.81dBi



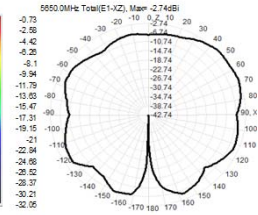
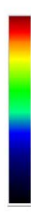
Total(H-XY), Max=-2.36dBi, C/D=8.54



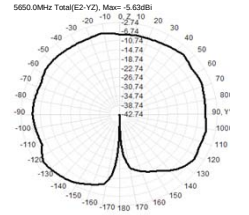
5650.0MHz Total Eff: 30.2%



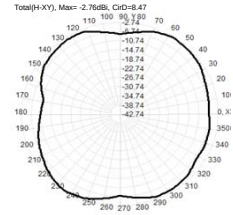
Back View



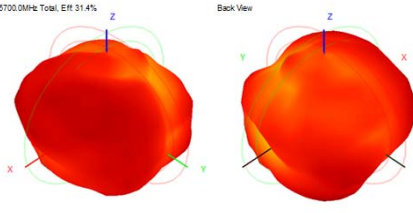
5650.0MHz Total(E2-YZ), Max=-5.63dBi



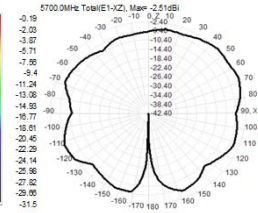
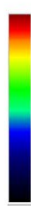
Total(H-XY), Max=-2.76dBi, C/D=8.47



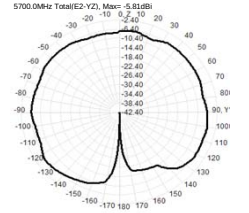
5700.0MHz Total Eff: 31.4%



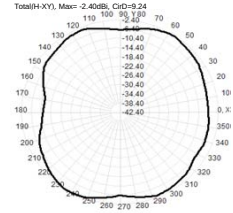
Back View



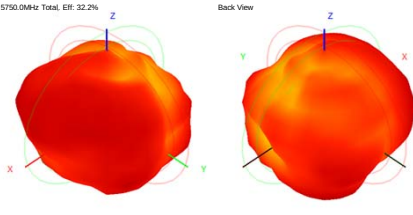
5700.0MHz Total(E2-YZ), Max=-5.83dBi



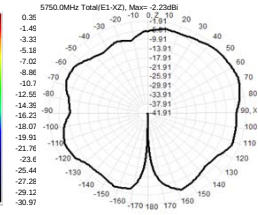
Total(H-XY), Max=-2.40dBi, C/D=9.24



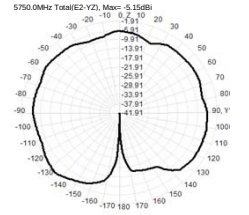
5750.0MHz Total Eff: 32.2%



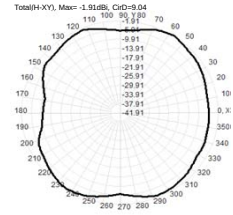
Back View



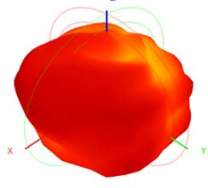
5750.0MHz Total(E2-YZ), Max=-5.15dBi



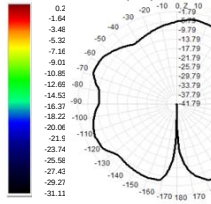
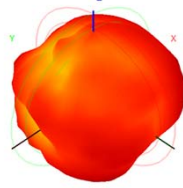
Total(H-XY), Max=-1.91dBi, C/D=9.04



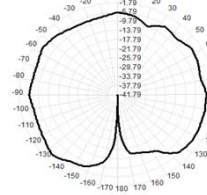
5800.0MHz Total, Eff: 32.7%



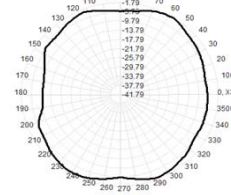
Back View



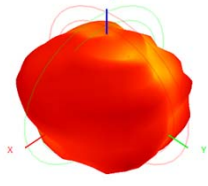
5800.0MHz Total(E2-YZ), Max=-4.64dB



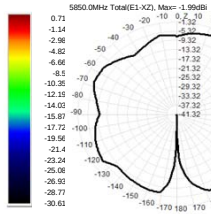
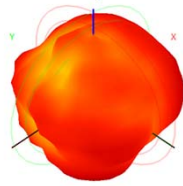
Total(H-XY), Max=-2.05dB, Crd=8.44



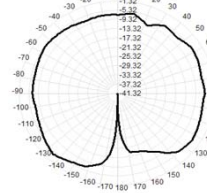
5850.0MHz Total, Eff: 34.4%



Back View



5850.0MHz Total(E2-YZ), Max=-4.34dB



Total(H-XY), Max=-1.32dB, Crd=9.44

