

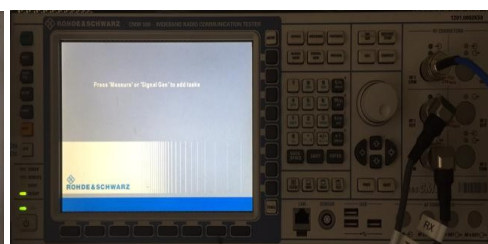
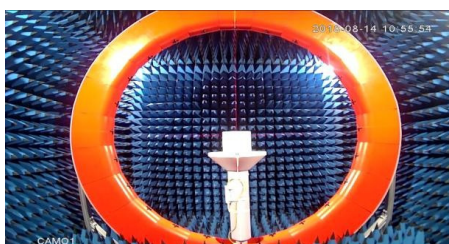
Antenna Specification

1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	19x12	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 2	
Polarization	Linear Polarization	
Gain	4.18	dBi
Efficiency	>50	%
Connector Type	MHF-3-Plug	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

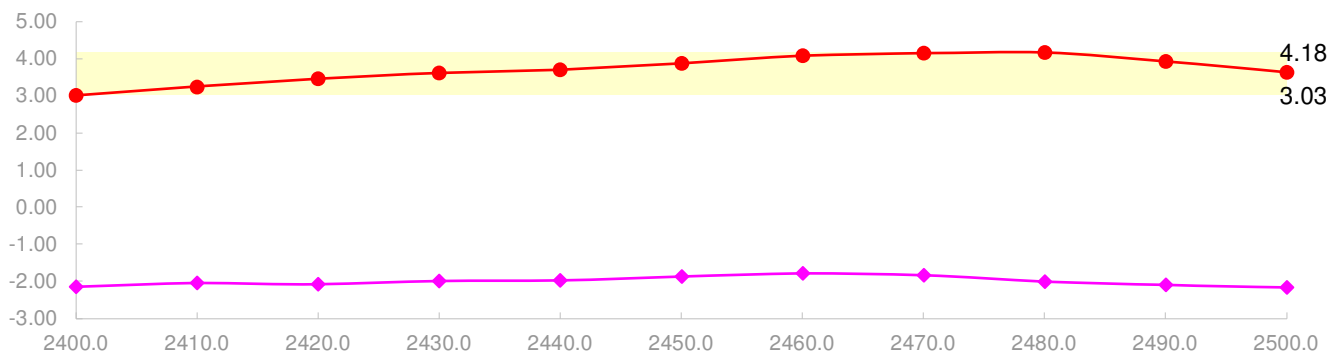
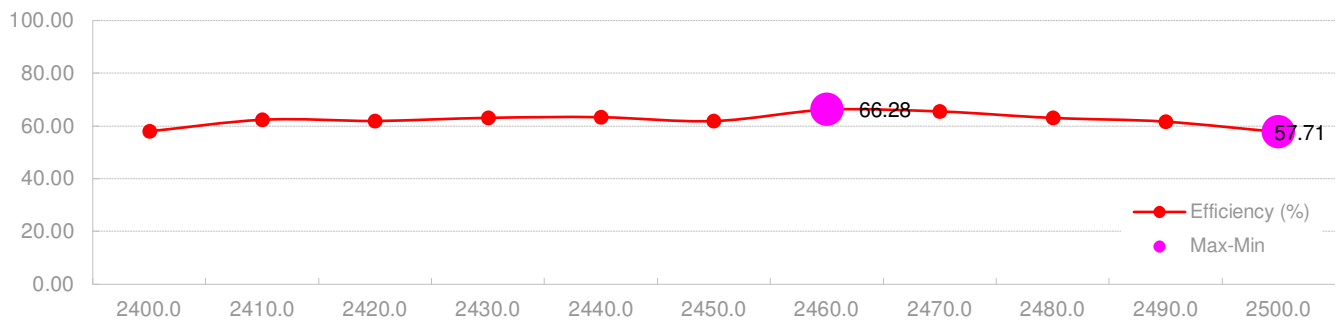
2. Test Items and Equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



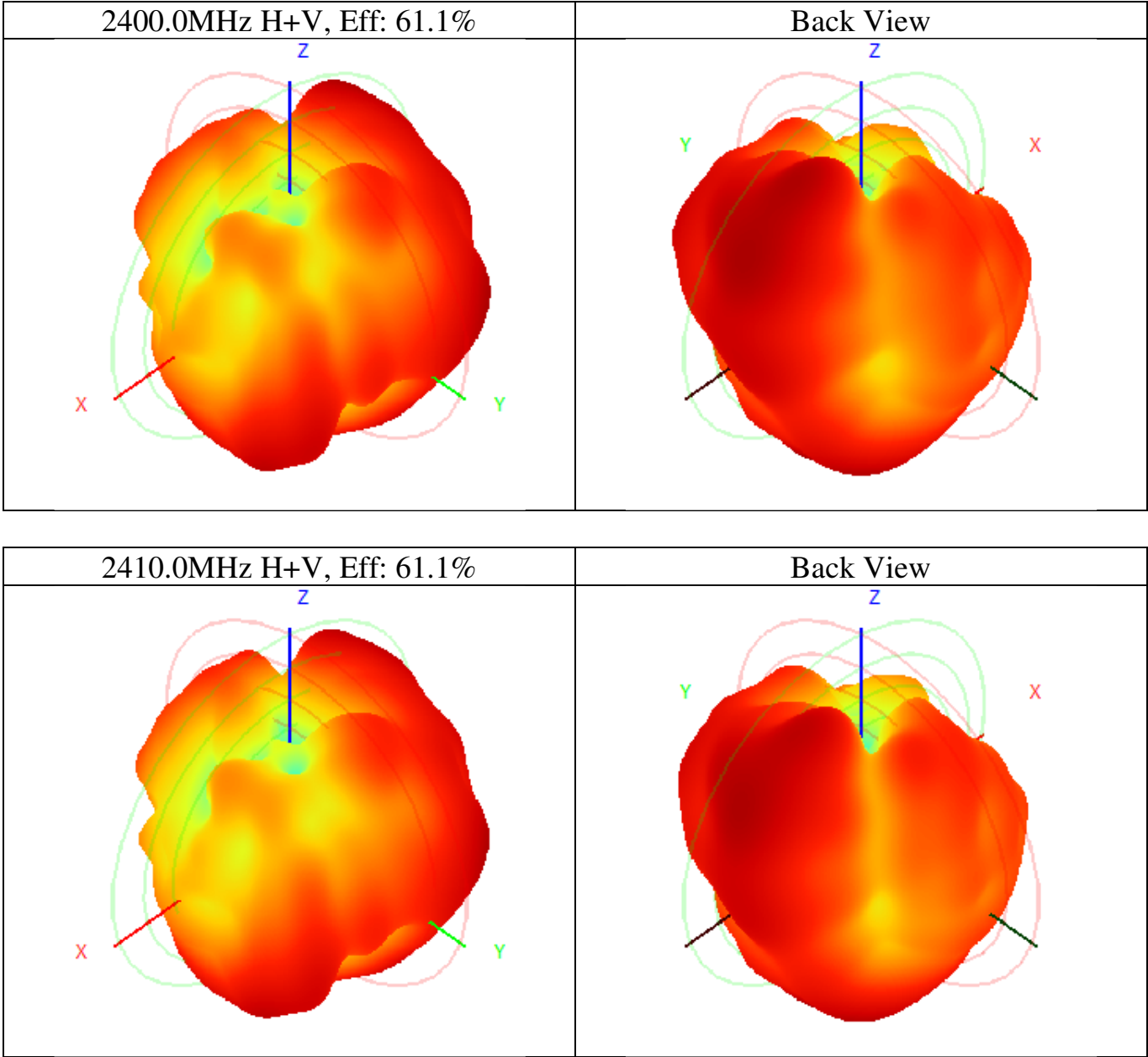
3.Efficiency and Gain

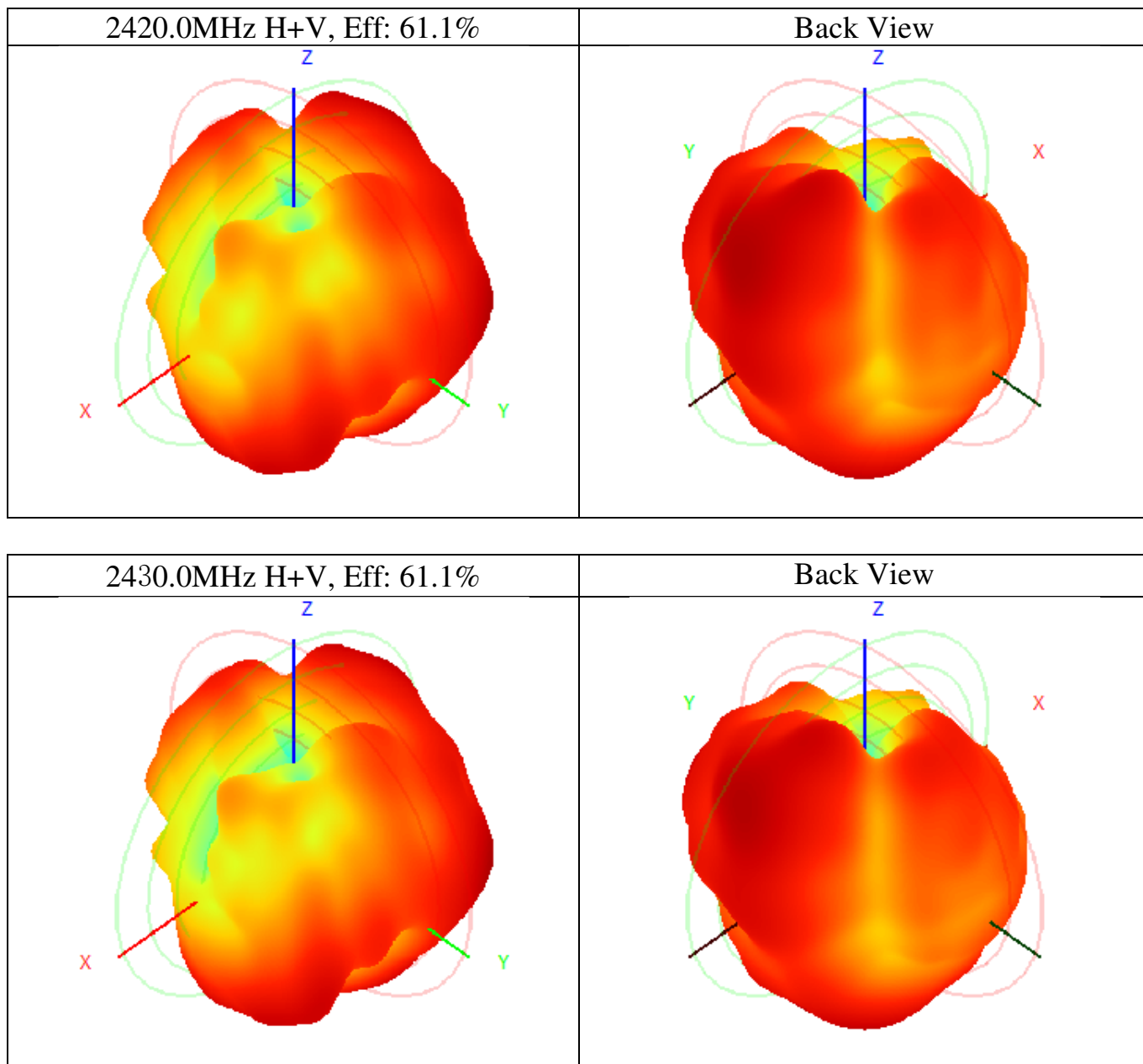
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-2.14	-2.04	-2.07	-1.99	-1.97	-1.87	-1.79	-1.83	-2.00	-2.10	-2.17
Gain (dBi)	3.03	3.25	3.46	3.62	3.71	3.89	4.09	4.15	4.18	3.94	3.64
Efficiency (%)	58.11	62.47	62.04	63.27	63.46	62.00	66.28	65.60	63.07	61.73	57.71
Directivity (dB)	5.17	5.30	5.53	5.61	5.69	5.76	5.87	5.98	6.18	6.03	5.80
Peak Gain Position (Theta)	142.00	142.00	143.00	144.00	143.00	143.00	144.00	144.00	144.00	144.00	145.00
Peak Gain Position (Phi)	220.00	219.00	223.00	224.00	224.00	226.00	229.00	231.00	230.00	232.00	234.00
Efficiency ThetaPol (%)	23.90	24.79	24.96	25.67	26.02	26.79	28.01	28.31	27.72	27.43	26.84
Efficiency PhiPol (%)	37.20	37.68	37.08	37.60	37.45	38.21	38.27	37.29	35.35	34.29	33.87
Upper Hem. Efficiency (%)	24.95	25.03	24.80	24.78	24.86	25.70	25.67	25.05	23.58	22.09	21.48
Lower Hem. Efficiency (%)	36.15	37.43	37.24	38.49	38.60	39.30	40.61	40.55	39.49	39.64	39.23

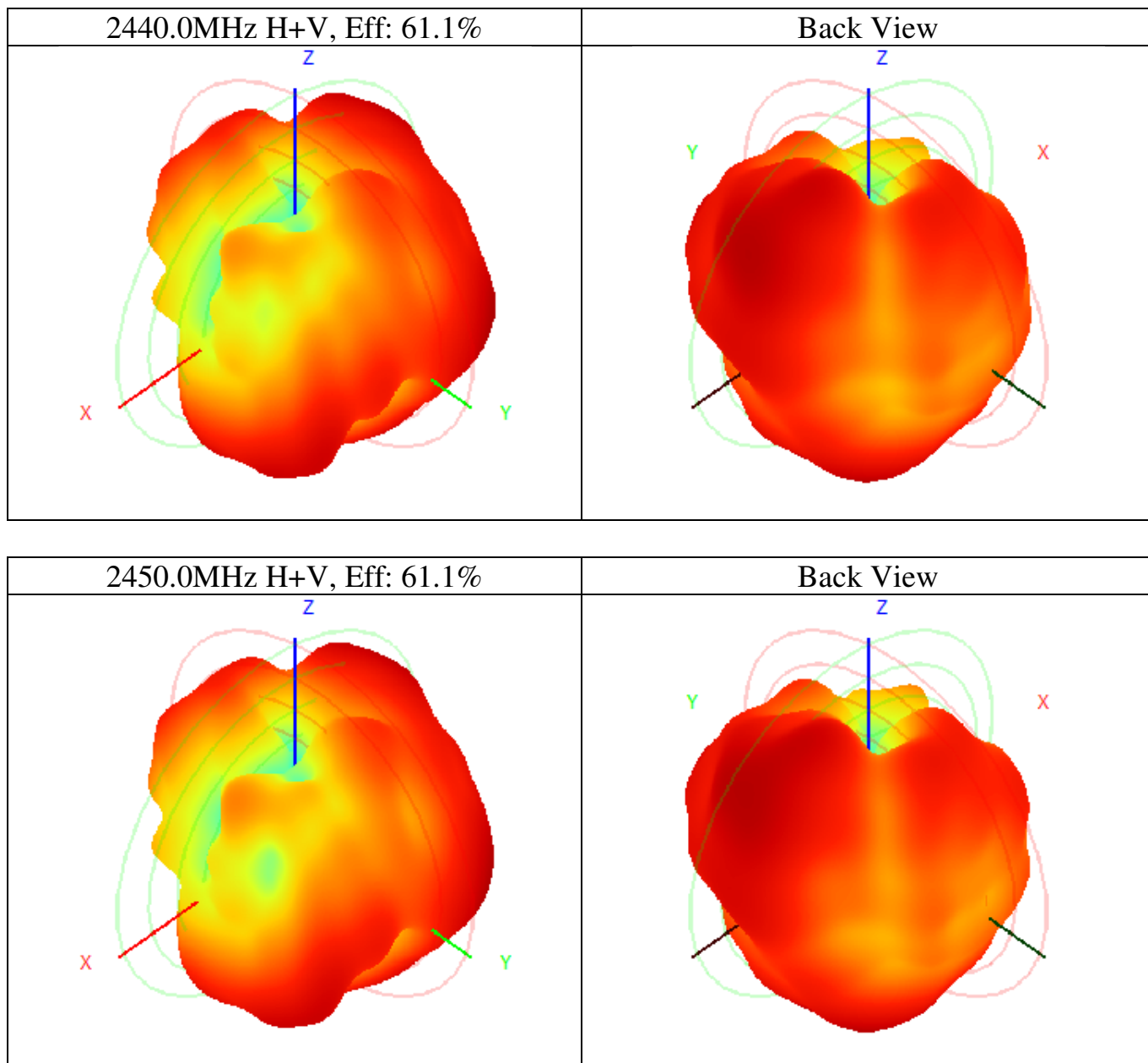


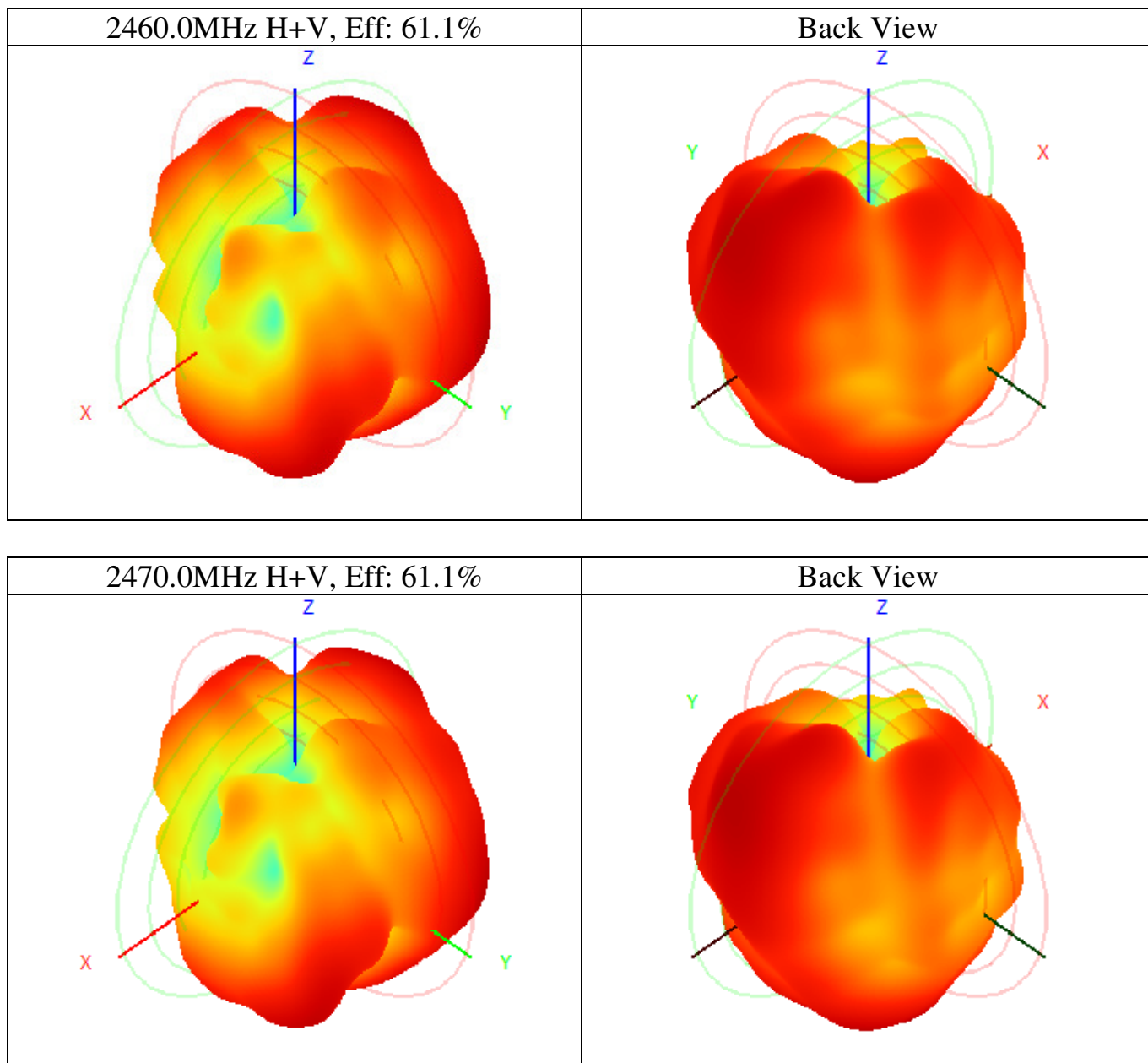
4. Radiation Pattern

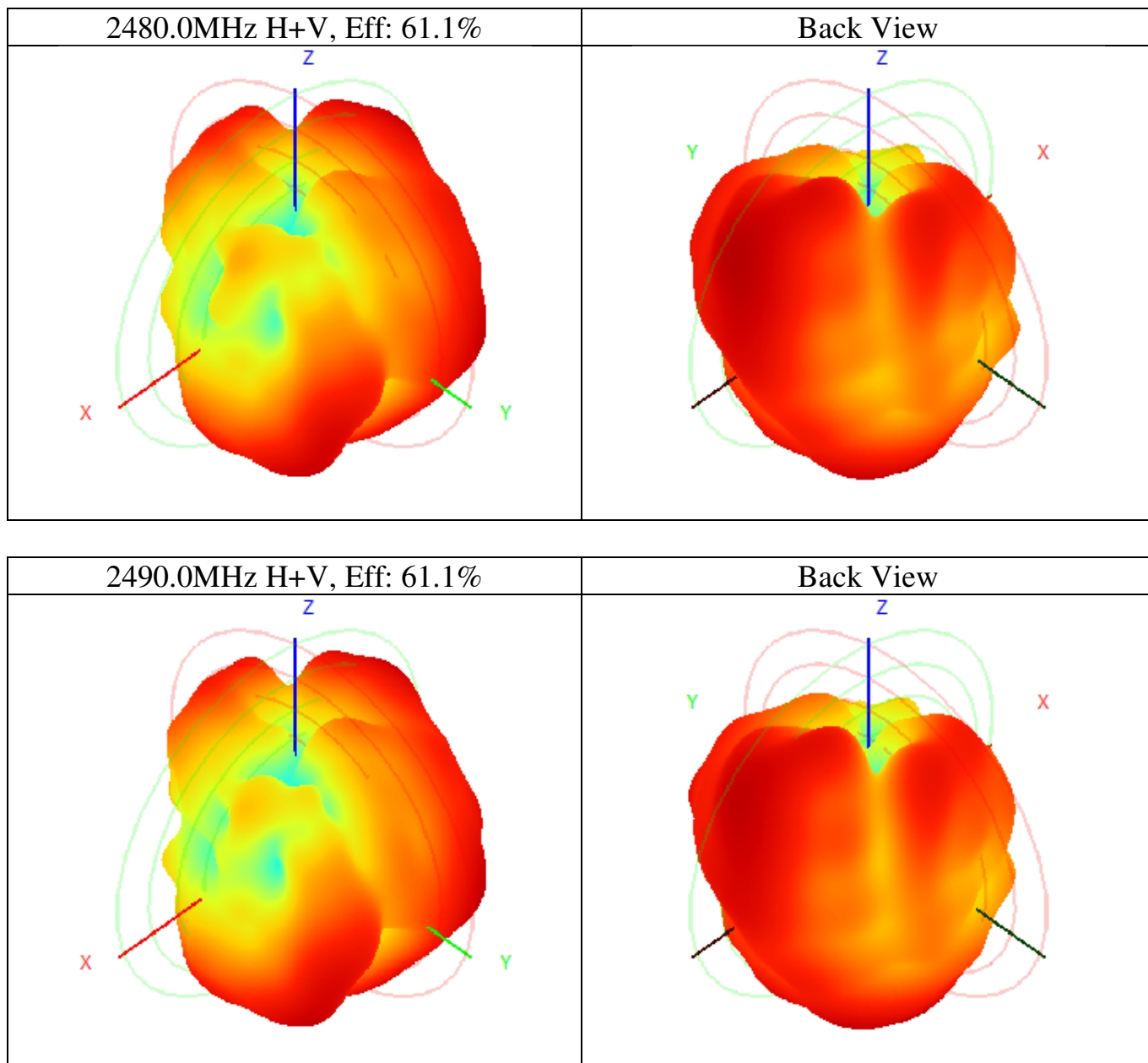
4-1 Antenna 3D Radiation Pattern

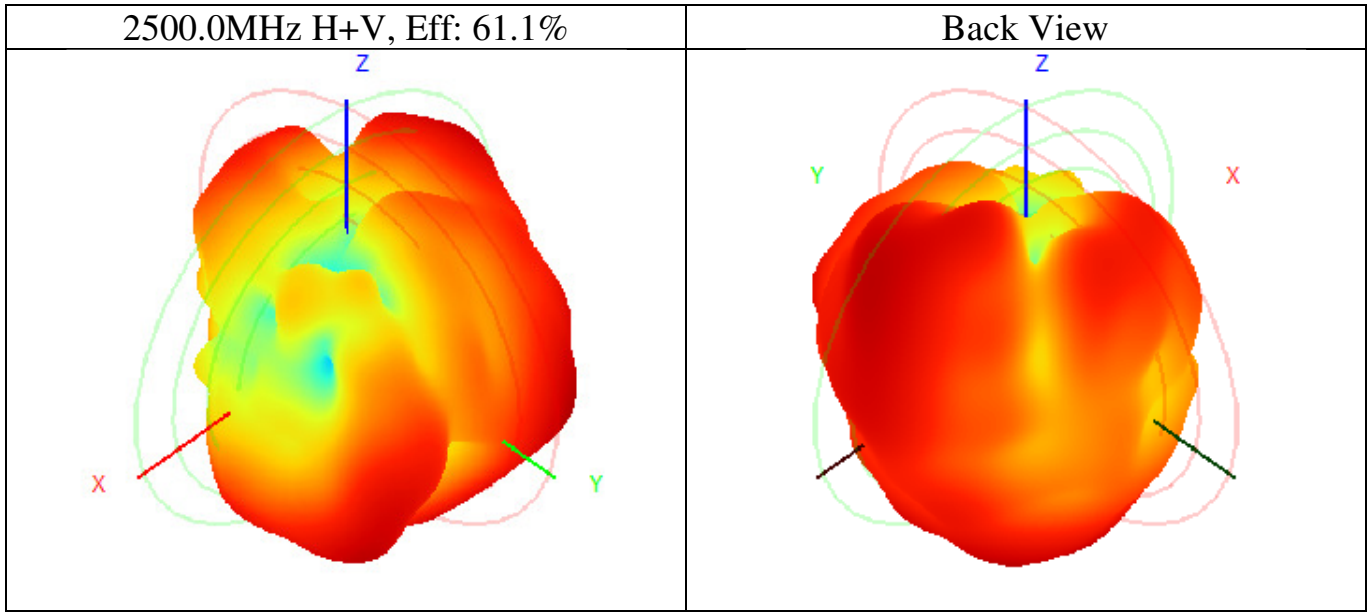




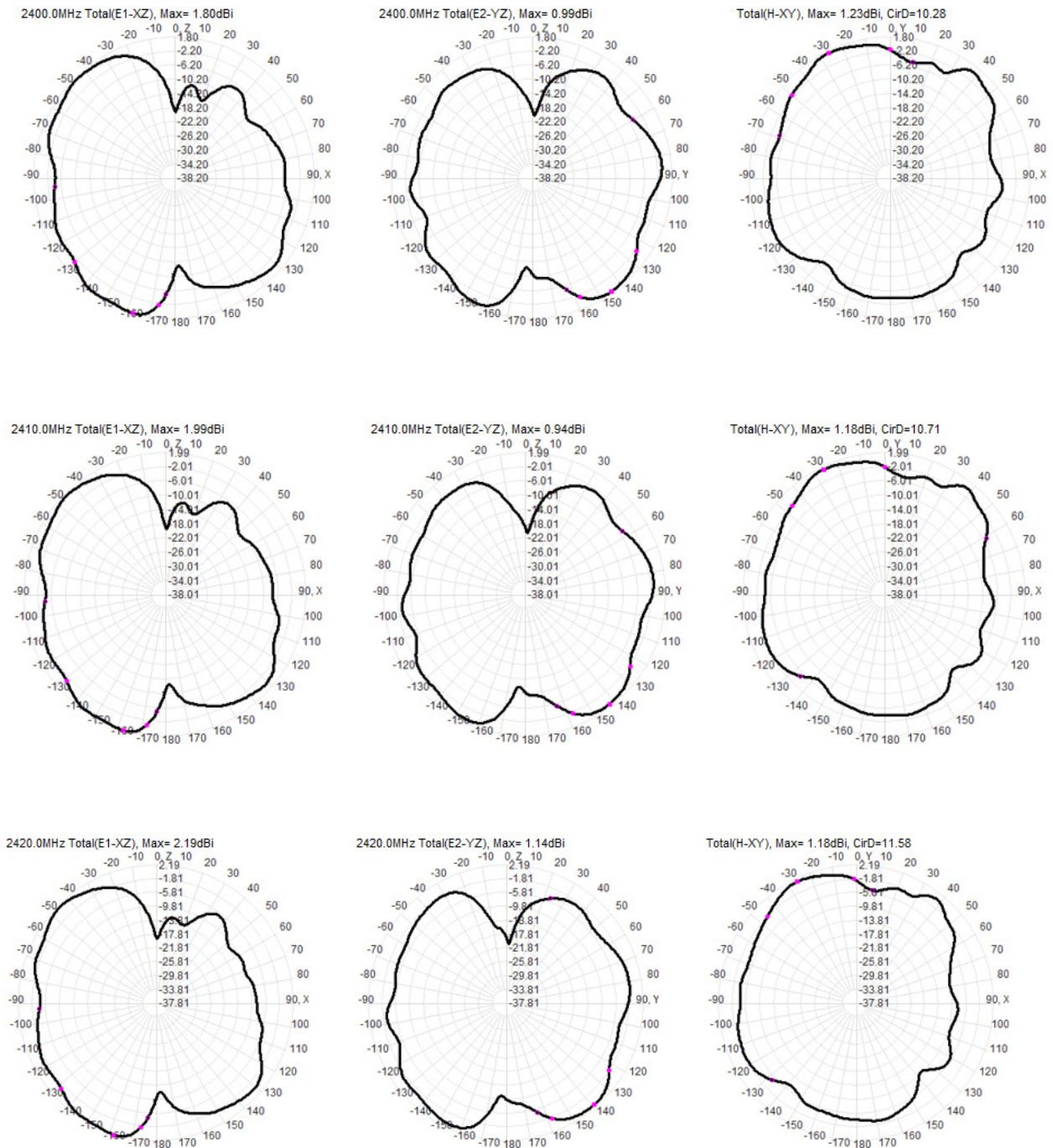




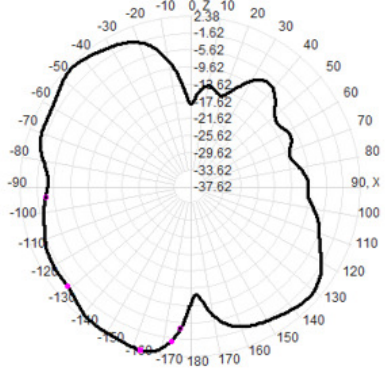




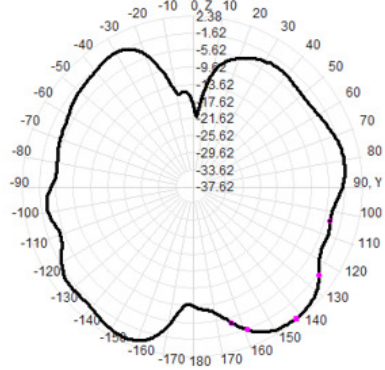
4-2 Antenna 2D Radiation Pattern



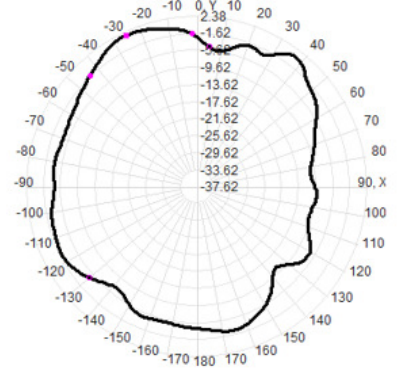
2430.0MHz Total(E1-XZ), Max= 2.38dBi



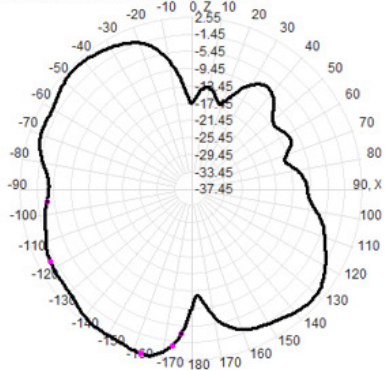
2430.0MHz Total(E2-YZ), Max= 1.58dBi



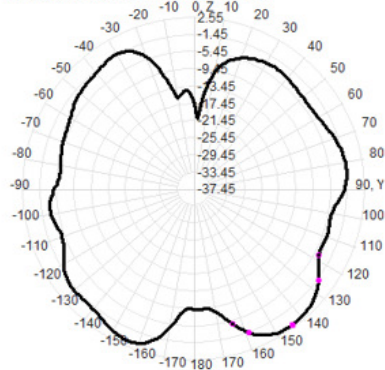
Total(H-XY), Max= 1.52dBi, CirD=12.75



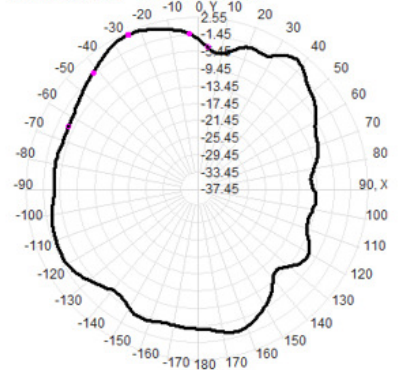
2440.0MHz Total(E1-XZ), Max= 2.55dBi



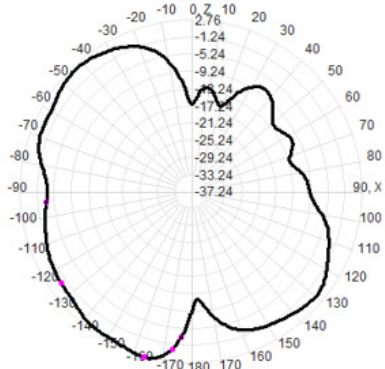
2440.0MHz Total(E2-YZ), Max= 1.57dBi



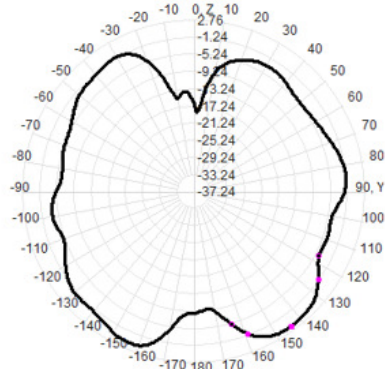
Total(H-XY), Max= 1.90dBi, CirD=13.04



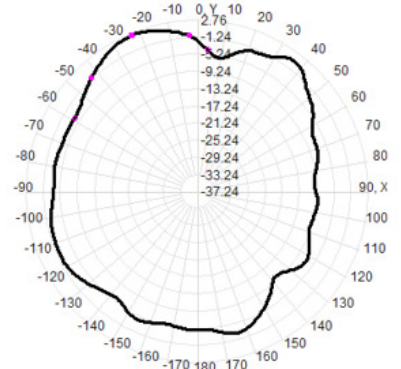
2450.0MHz Total(E1-XZ), Max= 2.76dBi



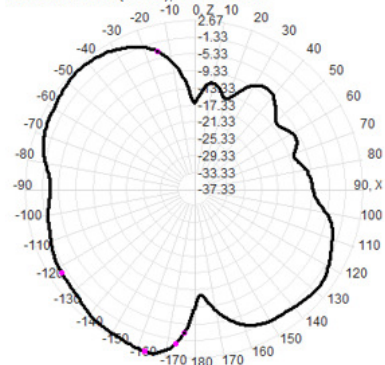
2450.0MHz Total(E2-YZ), Max= 1.44dBi



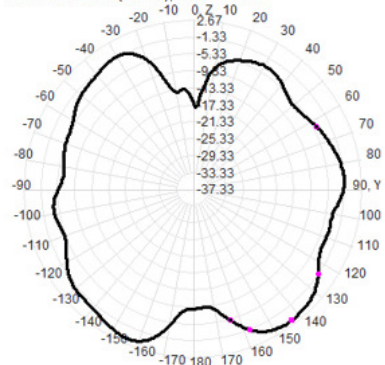
Total(H-XY), Max= 2.19dBi, CirD=12.65



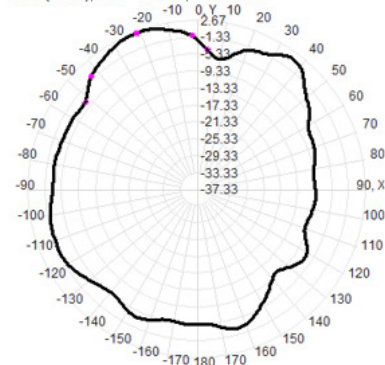
2460.0MHz Total(E1-XZ), Max= 2.67dBi



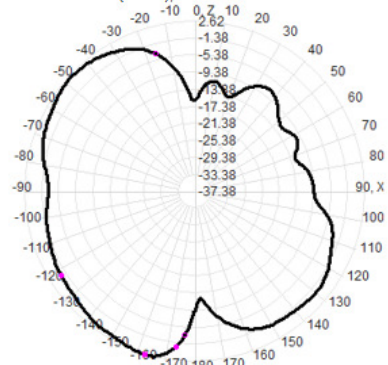
2460.0MHz Total(E2-YZ), Max= 1.40dBi



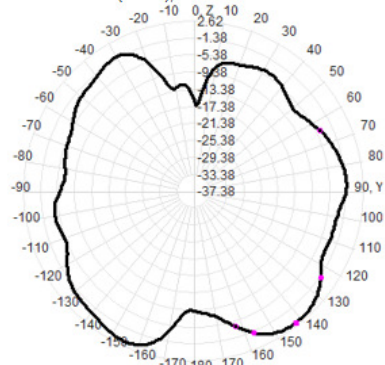
Total(H-XY), Max= 2.32dBi, CirD=12.64



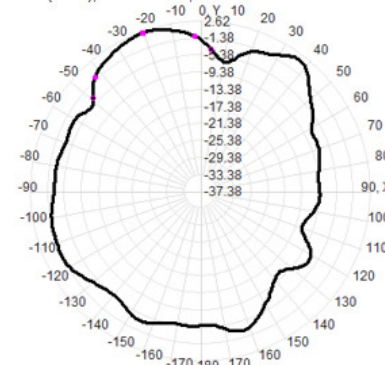
2470.0MHz Total(E1-XZ), Max= 2.62dBi



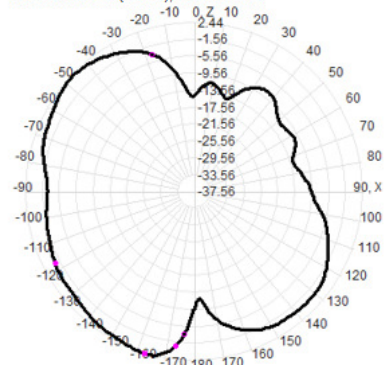
2470.0MHz Total(E2-YZ), Max= 1.67dBi



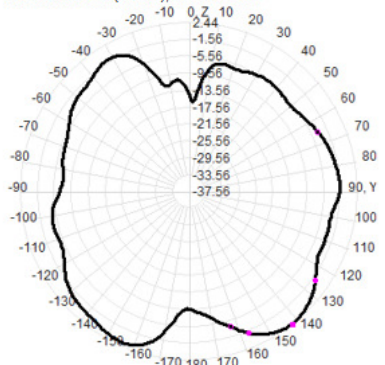
Total(H-XY), Max= 2.19dBi, CirD=14.40



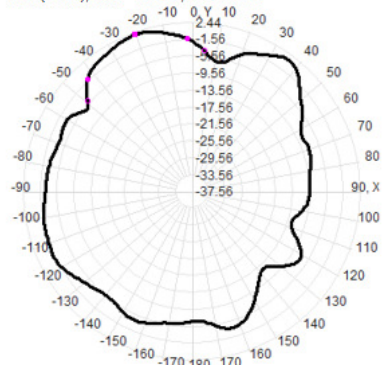
2480.0MHz Total(E1-XZ), Max= 2.44dBi



2480.0MHz Total(E2-YZ), Max= 2.03dBi



Total(H-XY), Max= 1.87dBi, CirD=14.85



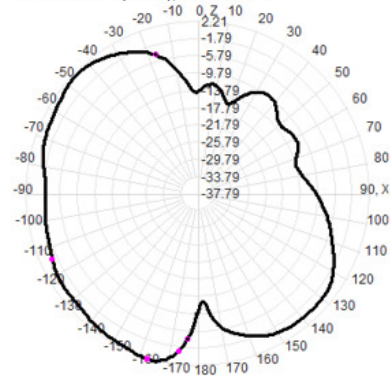


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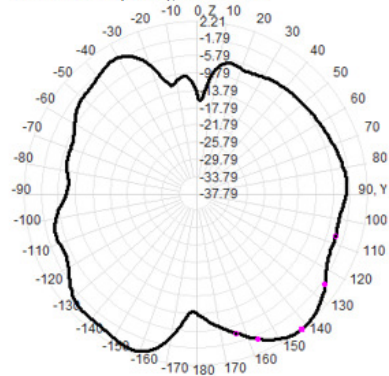
东莞市优比电子有限公司

Dongguan Youbi Electronics Co., Ltd

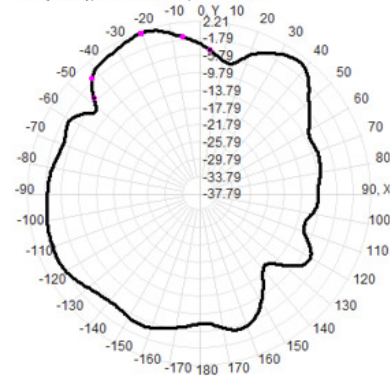
2490.0MHz Total(E1-XZ), Max= 2.21dBi



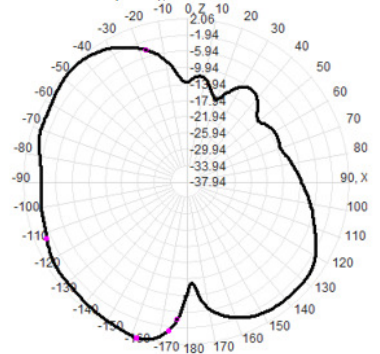
2490.0MHz Total(E2-YZ), Max= 2.06dBi



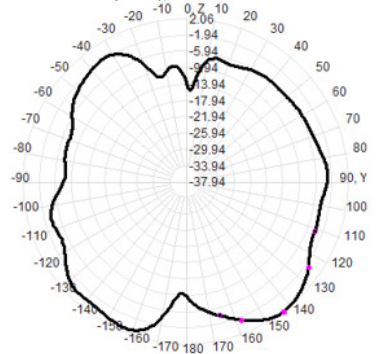
Total(H-XY), Max= 1.78dBi, CirD=17.09



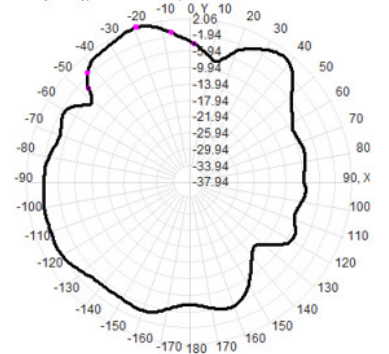
2500.0MHz Total(E1-XZ), Max= 2.06dBi



2500.0MHz Total(E2-YZ), Max= 1.81dBi



Total(H-XY), Max= 2.03dBi, CirD=17.52



5. Antenna dimension

