



根通通信技术有限公司

Gentong Communication Technology Co.,Ltd

地址：泉州市南安国家大学科学园福建分园七号楼五层， Tel: 15889795946

Address: 5th Floor, Building 7, Fujian Branch of National University Science Park, Nan'an City, Quanzhou City

Project Name :H9

Frequency band :136MHZ-174MHZ/400MHZ-480MHZ

Antenna Type: Whip antenna

Version : R:A



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1.天线参数/特性

Antenna Parameter Characteristics

频率范围 Frequency Range	136 MHZ	150 MHZ	174 MHZ	400 MHZ	440 MHZ	480 MHZ
输入阻抗 Impedance	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
驻波比 S _{wr}	6.8	1.2	5.6	2.5	1.1	2.0
回波损耗 Log Mag	-2.5	-19.1	-3.1	-7.1	-25.3	-9.3
增益 Gain	1.61	2.33	1.78	2.43	3.04	2.54
极化方式 Polarization	垂直/水平 Vertical / Horizontal	垂直/水平 Vertical / Horizontal	垂直/水平 Vertical / Horizontal	垂直/水平 Vertical / Horizontal	垂直/水平 Vertical / Horizontal	垂直/水平 Vertical / Horizontal
辐射方向 Radiation	全向 All-directional	全向 All-directional	全向 All-directional	全向 All-directional	全向 All-directional	全向 All-directional
高度 Height	213±2mm	213±2mm	213±2mm	213±2mm	213±2mm	213±2mm
接头 Termination	6118 注塑母头	6118 注塑母头	6118 注塑母头	6118 注塑母头	6118 注塑母头	6118 注塑母头
天线材料 Radome Material	加感弹簧 Compression spring	加感弹簧 Compression spring	加感弹簧 Compression spring	加感弹簧 Compression spring	加感弹簧 Compression spring	加感弹簧 Compression spring
天线颜色 Radome Color	黑色 Black	黑色 Black	黑色 Black	黑色 Black	黑色 Black	黑色 Black



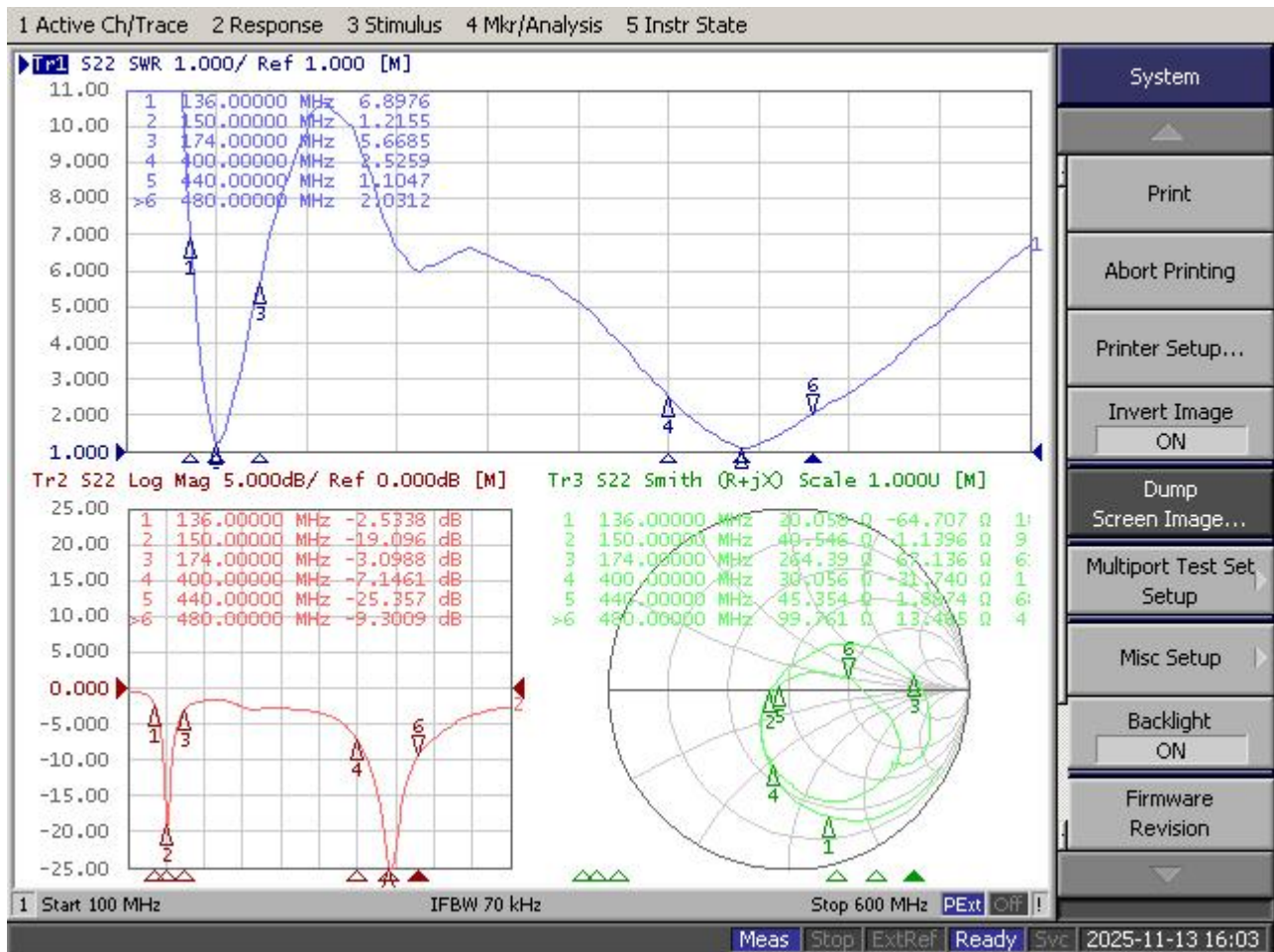
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2.log&smith&SWR





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3. Efficiency gain

Frequency ID	1	2	3	4	5	6
Frequency (MHz)	136.0	150.0	174.0	400.0	440.0	480.0
Gain (dBi)	1.61	2.33	1.78	2.43	3.04	2.54
Efficiency (%)	48.0	52.3	54.4	59.1	62.0	58.1



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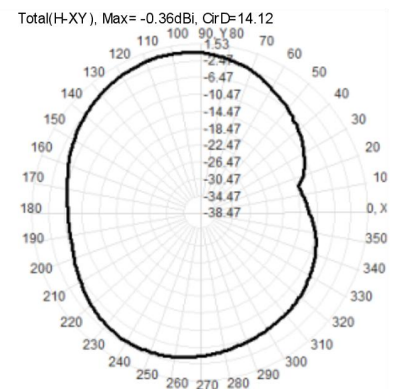
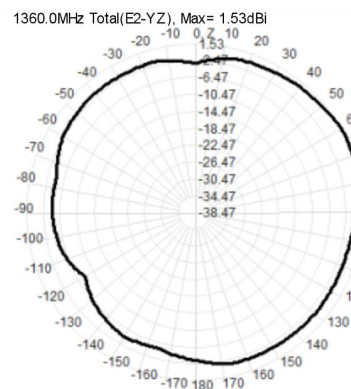
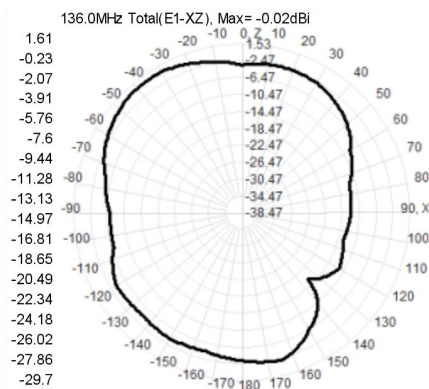
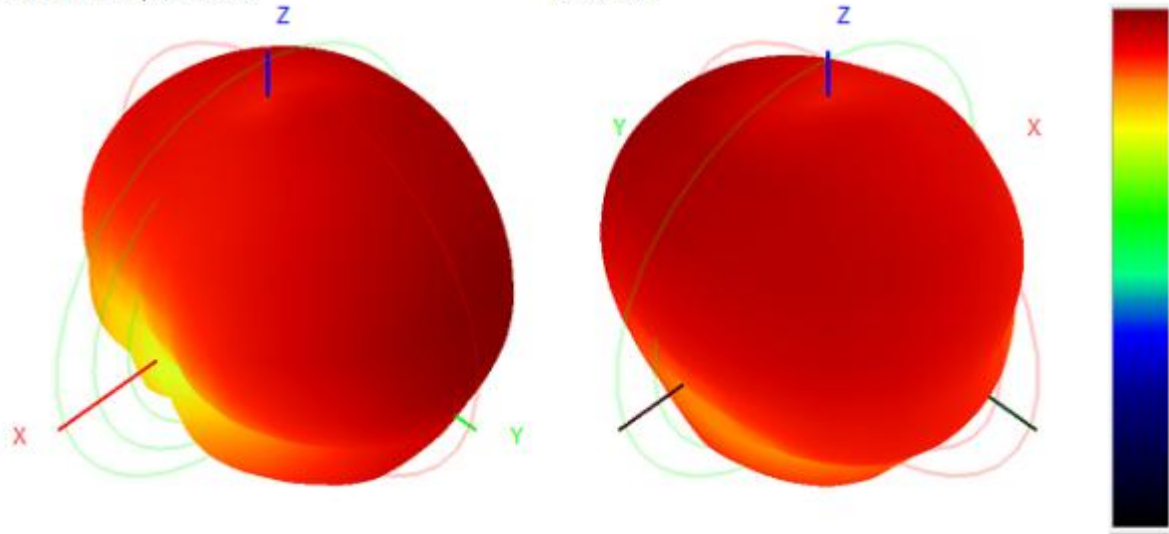
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4. 3D Apple diagram Antenna pattern

136.0MHz Total, Eff: 48.0%

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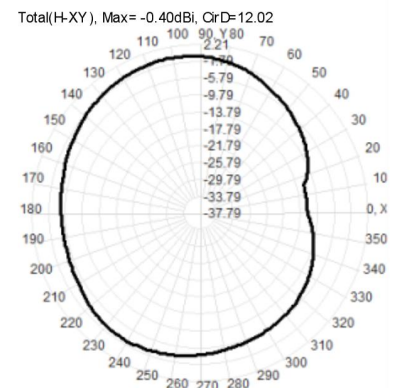
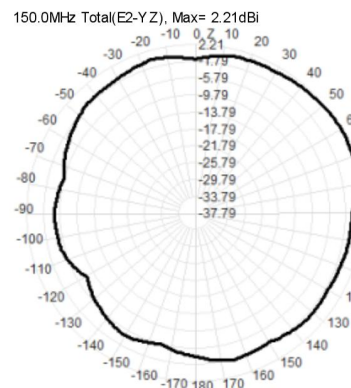
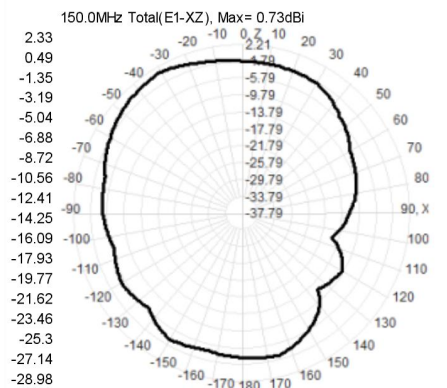
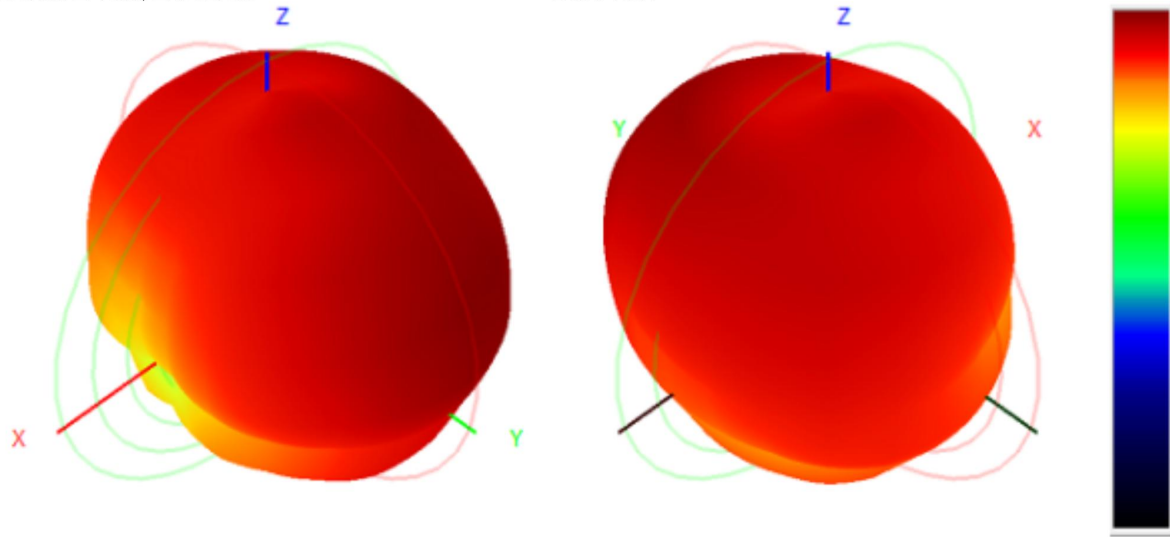
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150.0MHz Total, Eff: 52.3%

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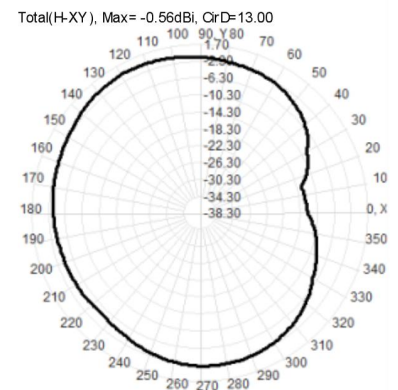
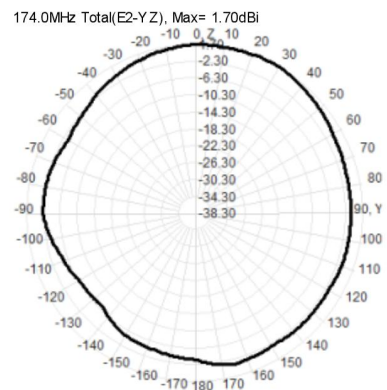
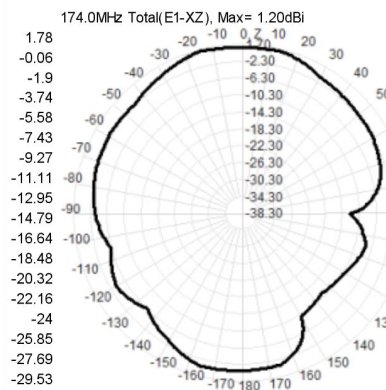
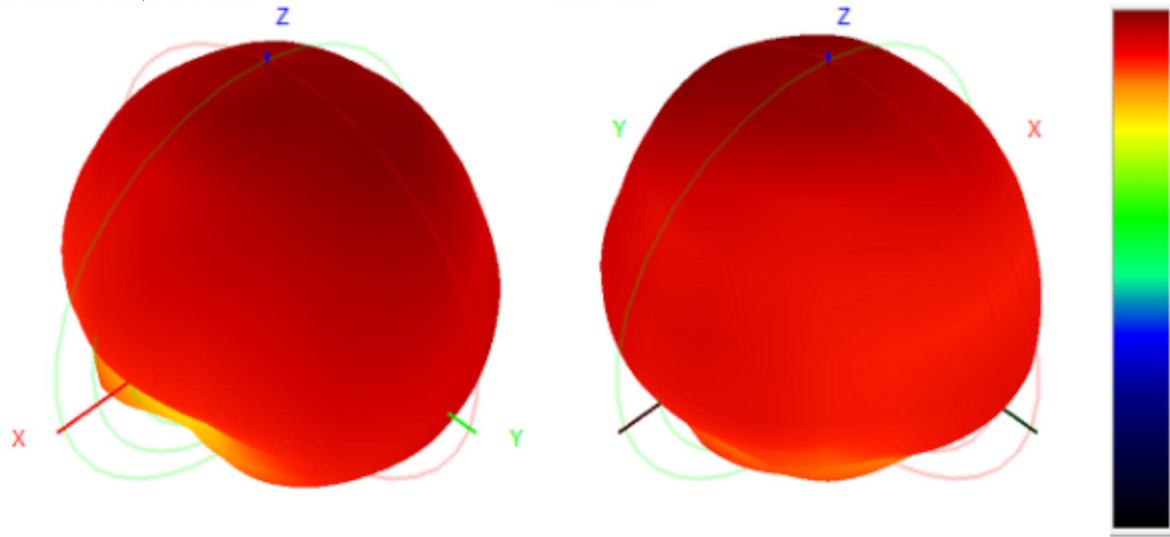
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174.0MHz Total, Eff: 54.4%

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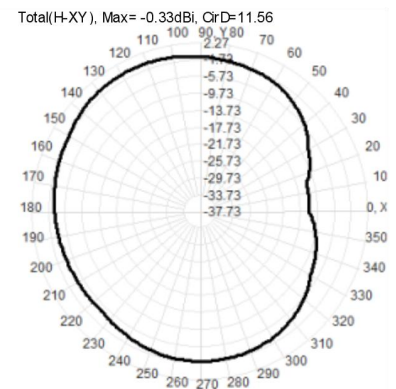
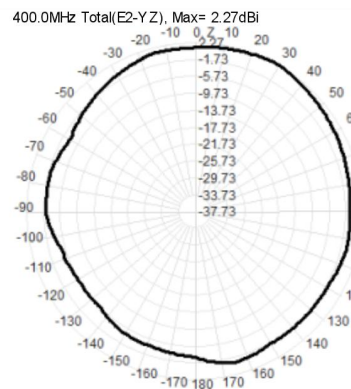
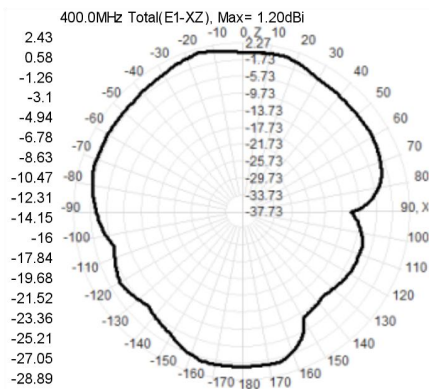
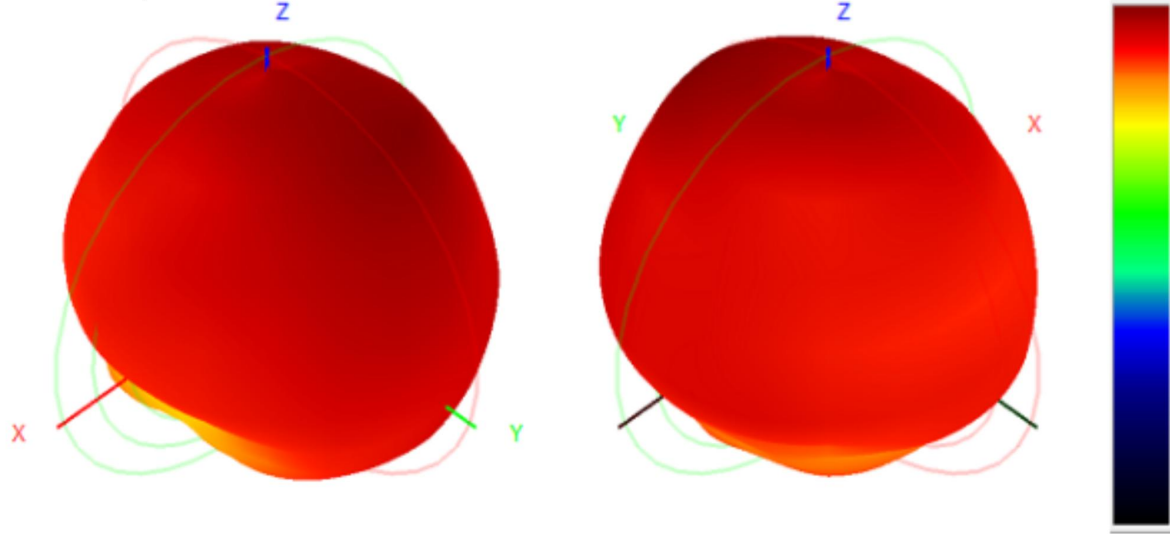
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400.0MHz Total, Eff: 59.1%

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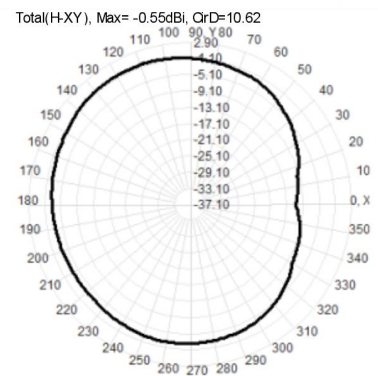
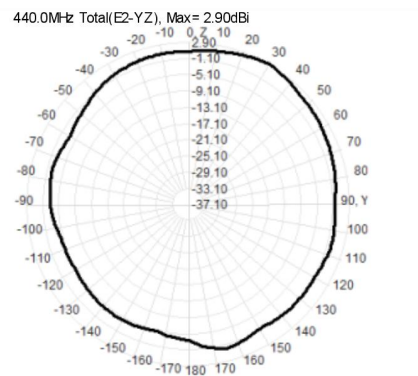
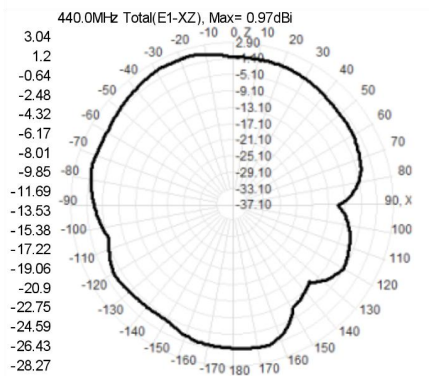
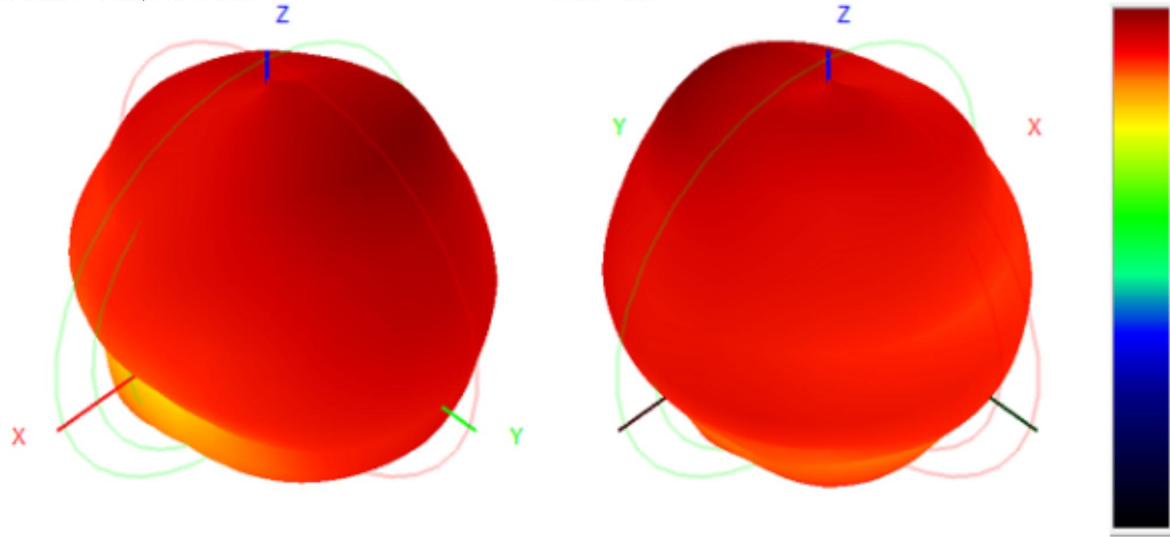
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440.0MHz Total, Eff: 62.0%

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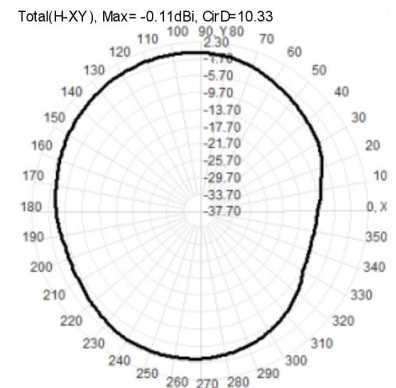
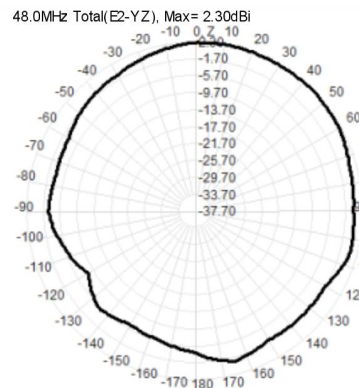
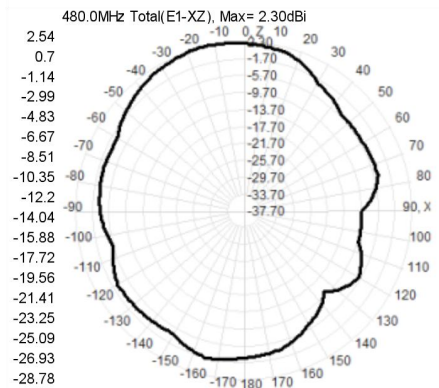
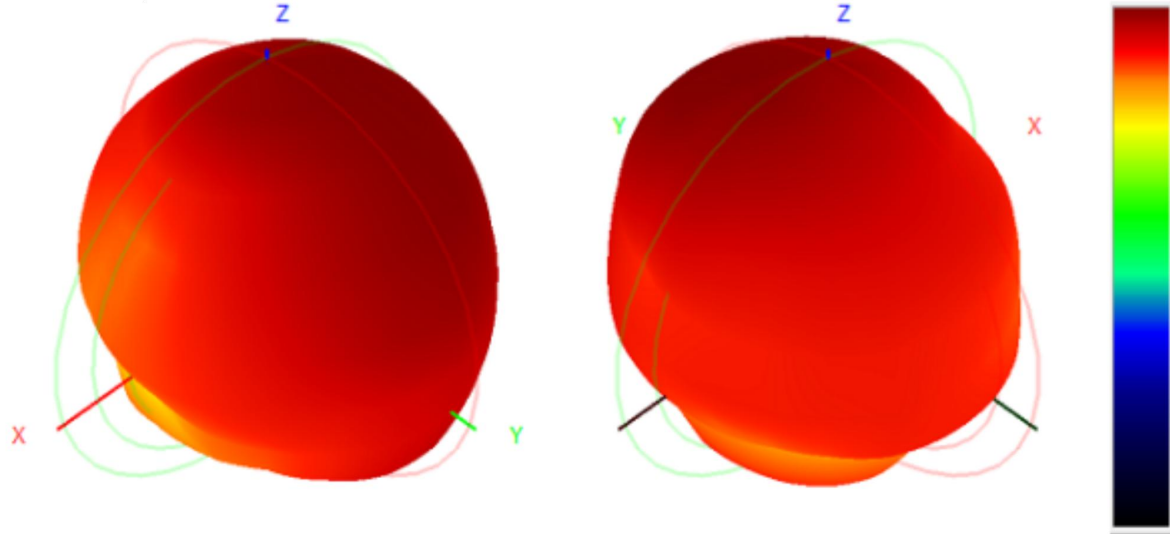
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480.0MHz Total, Eff: 58.1%

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5. Physical picture

