2.4&5.8G Paddle Monopole Antenna

FEATURES

- Designed for both Indoor & Outdoor applications
- Ground Plane dependent
- 2.93 dBi Peak Gain
- Small Form Factor

The MyAntenna AEWW031 range of antennas are designed to decrease the lifetime cost of M2M and mobile device installations by offering a robust, effective antenna that is easy to install and lasts the lifetime of the installation without the need for maintenance.

PRODUCTS

Part No.	Weight	Dimensions (L x W x H)	Connector	Color
AEWW031	6g	50.5*17.2*10.4mm	RP-SMA Male	Black

SPECIFICATIONS

PARAMETER	SPECIFICATION	
Frequency Bands, MHz	2400-2500	5100-5900
VSWR (Max)	3.0:1	3.0:1
Peak Gain, dBi (Typ)	Up to 2.93	
Peak Efficiency,%	Up to 86.93	
Nominal Impedance	50 Ω	
Max Power (ambient temp of 25°C)	10 Watts	
Azimuth Beam Width (deg)	Omnidirectional	
Polarization	Linear	
Radome	TPE, Black	
Storage Temperature Range (°C)	-40° C to +85° C	
Operational Temperature Range (°C)	-40° C to +85° C	
Material Substance Compliance	RoHS Compliant	

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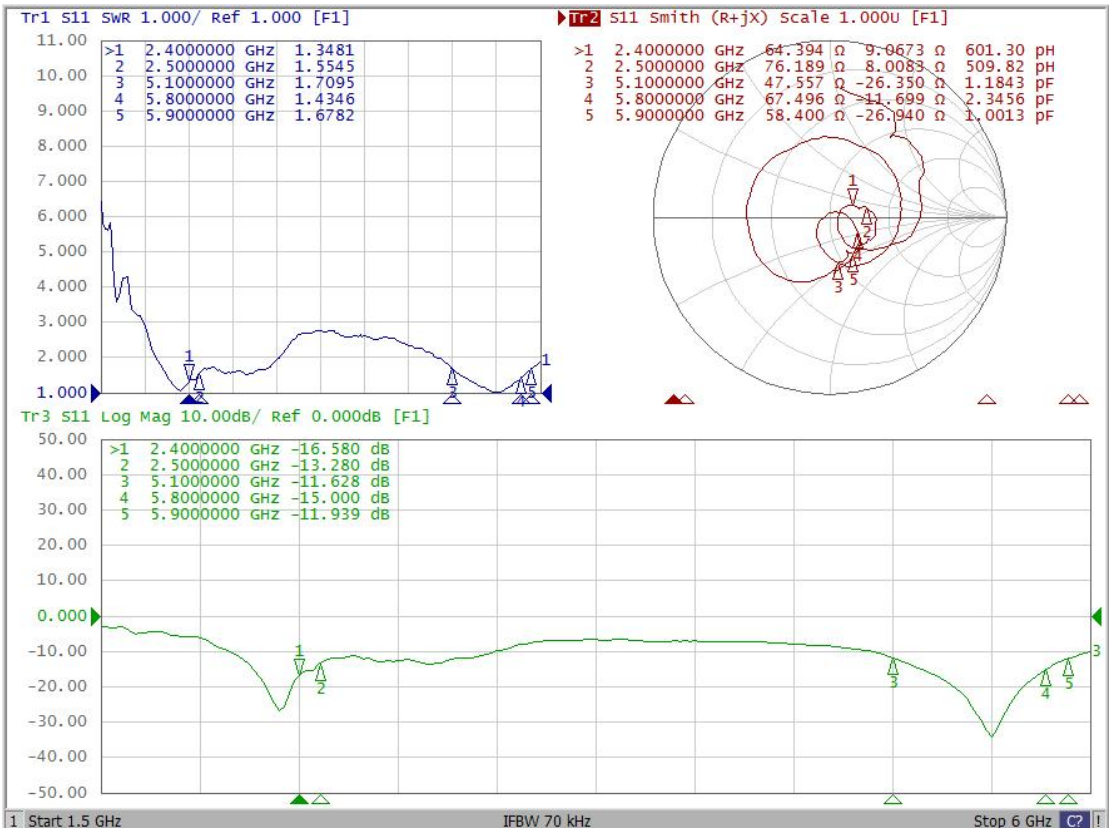
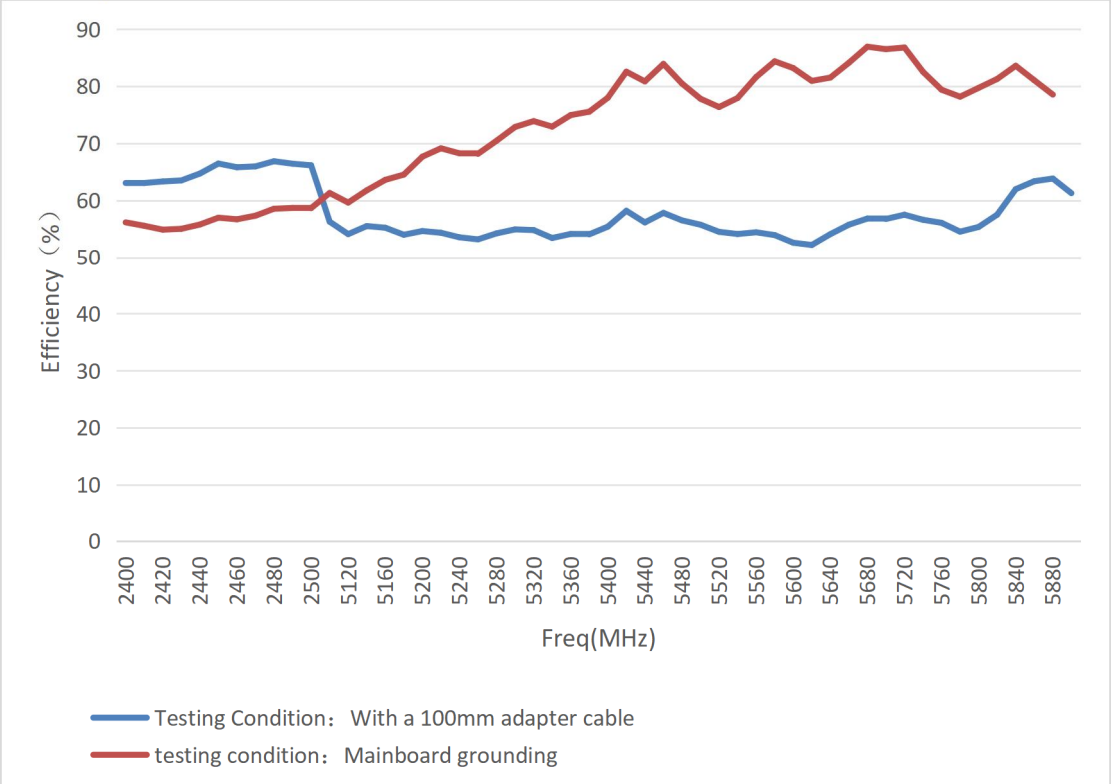
ELECTRICAL DATA

Return Loss



Efficiency（%）



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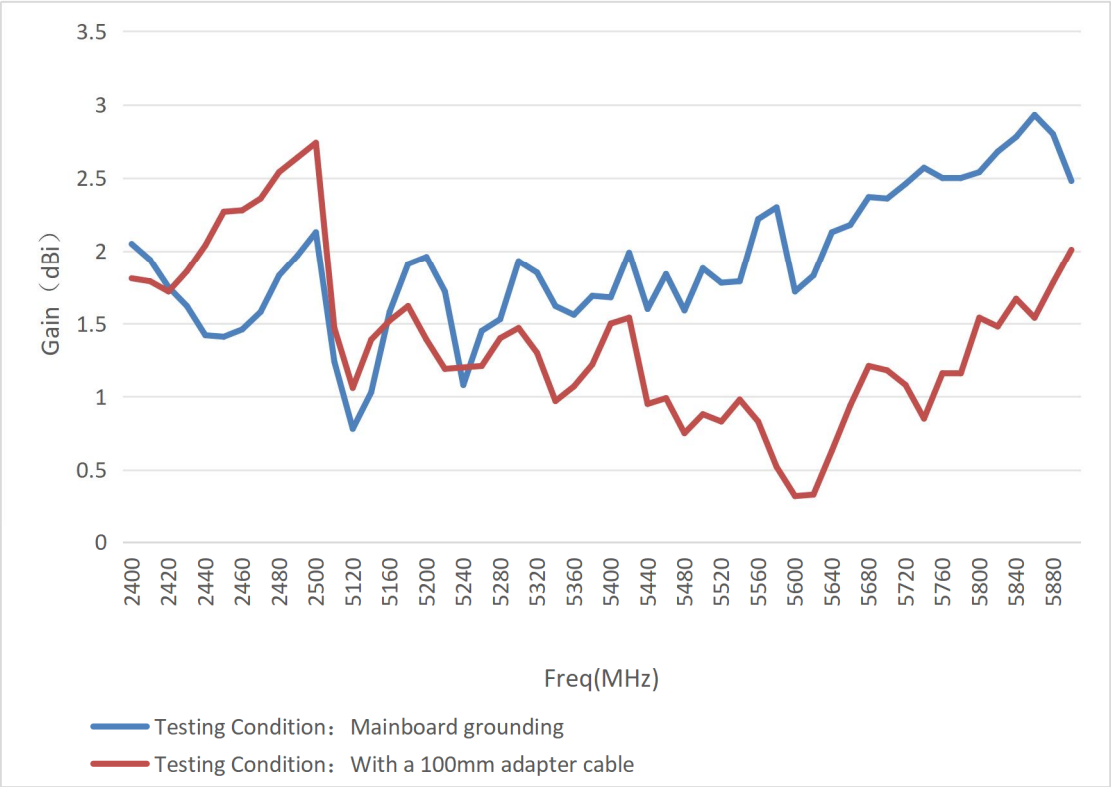
Peak Gain（dBi）



Testing Condition： Mainboard grounding

Freq(MHz)	Gain（dBi）	Efficiency（%）	Freq(MHz)	Gain（dBi）	Efficiency（%）	Freq(MHz)	Gain（dBi）	Efficiency（%）
2400	2.05	56.15	5240	1.08	68.25	5600	1.72	83.19
2410	1.94	55.55	5260	1.45	68.16	5620	1.83	80.94
2420	1.75	54.87	5280	1.53	70.45	5640	2.13	81.52
2430	1.62	55.02	5300	1.93	72.87	5660	2.18	84.11
2440	1.42	55.77	5320	1.85	73.89	5680	2.37	86.93
2450	1.41	56.97	5340	1.62	72.93	5700	2.36	86.50
2460	1.46	56.69	5360	1.56	74.95	5720	2.46	86.79
2470	1.58	57.32	5380	1.69	75.54	5740	2.57	82.53
2480	1.83	58.54	5400	1.68	77.99	5760	2.50	79.39
2490	1.97	58.68	5420	1.99	82.55	5780	2.50	78.17
2500	2.13	58.64	5440	1.60	80.85	5800	2.54	79.72
5100	1.24	61.30	5460	1.84	83.92	5820	2.68	81.28
5120	0.78	59.62	5480	1.59	80.48	5840	2.78	83.59
5140	1.03	61.76	5500	1.88	77.81	5860	2.93	81.05
5160	1.58	63.60	5520	1.78	76.36	5880	2.80	78.54
5180	1.91	64.52	5540	1.79	77.94	5900	2.48	77.13
5200	1.96	67.66	5560	2.22	81.62			
5220	1.72	69.13	5580	2.30	84.37			

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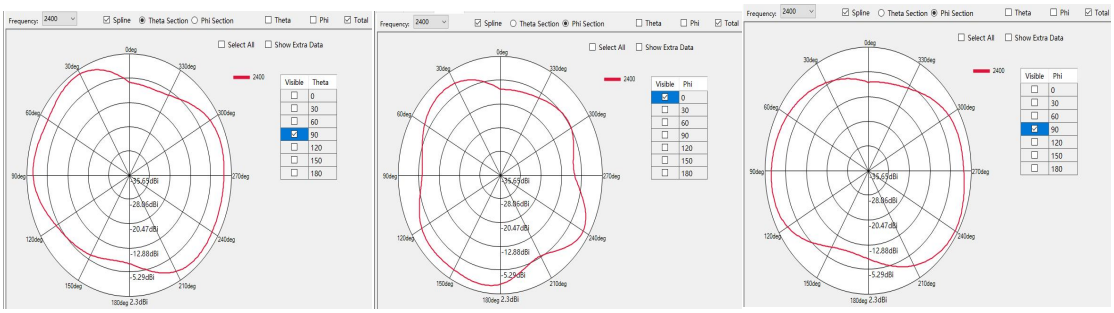
Testing Condition： With a 100mm adapter cable

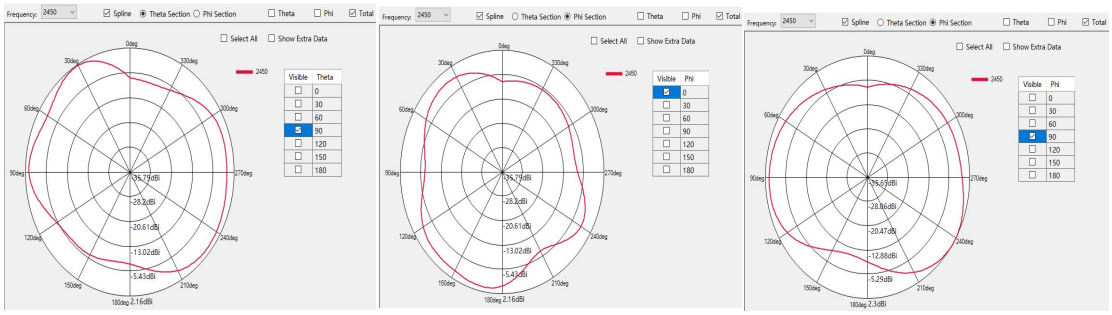
Freq(MHz)	Gain （dBi）	Efficiency （%）	Freq(MHz)	Gain （dBi）	Efficiency （%）	Freq(MHz)	Gain （dBi）	Efficiency （%）
2400	1.81	63.05	5240	1.2	53.53	5600	0.32	52.58
2410	1.79	63.05	5260	1.21	53.17	5620	0.33	52.18
2420	1.72	63.32	5280	1.4	54.22	5640	0.63	54.08
2430	1.86	63.5	5300	1.47	54.92	5660	0.94	55.74
2440	2.04	64.7	5320	1.3	54.8	5680	1.21	56.82
2450	2.27	66.46	5340	0.97	53.41	5700	1.18	56.75
2460	2.28	65.81	5360	1.07	54.12	5720	1.08	57.49
2470	2.36	65.96	5380	1.22	54.05	5740	0.85	56.6
2480	2.54	66.86	5400	1.5	55.4	5760	1.16	56.07
2490	2.64	66.43	5420	1.54	58.18	5780	1.16	54.52
2500	2.74	66.15	5440	0.95	56.14	5800	1.54	55.35
5100	1.47	56.27	5460	0.99	57.81	5820	1.48	57.5
5120	1.06	54.09	5480	0.75	56.5	5840	1.67	61.97
5140	1.39	55.5	5500	0.88	55.74	5860	1.54	63.36
5160	1.52	55.21	5520	0.83	54.49	5880	1.78	63.83
5180	1.62	53.98	5540	0.98	54.11	5900	2.01	61.27
5200	1.39	54.63	5560	0.83	54.41			
5220	1.19	54.33	5580	0.52	53.92			

RADIATION PATTERNS

2D Radiation Pattern at 2400MHz



2D Radiation Pattern at 2450MHz



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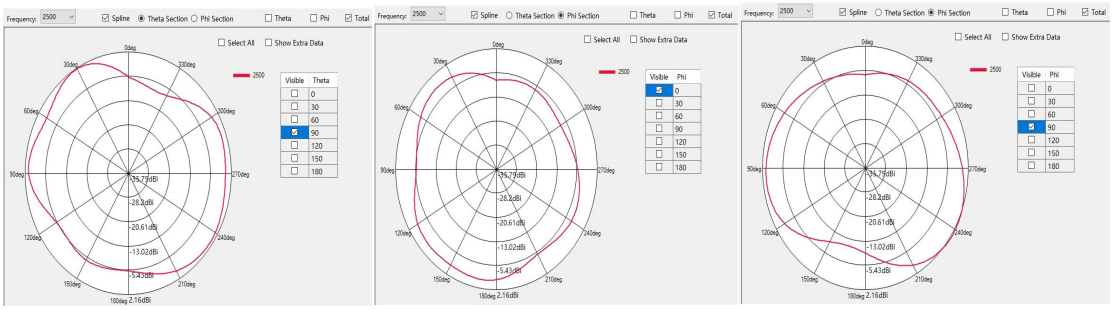
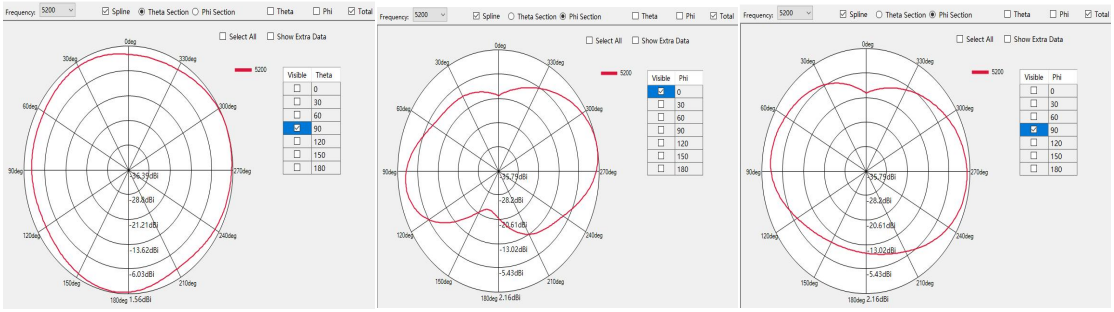
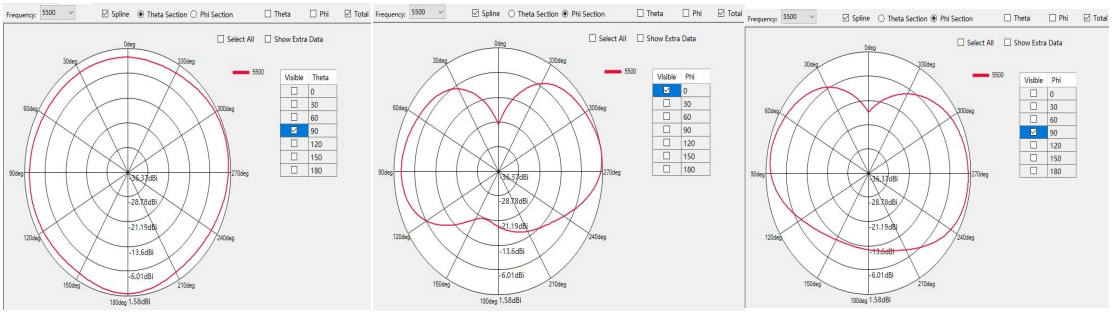
2D Radiation Pattern at 2500MHz



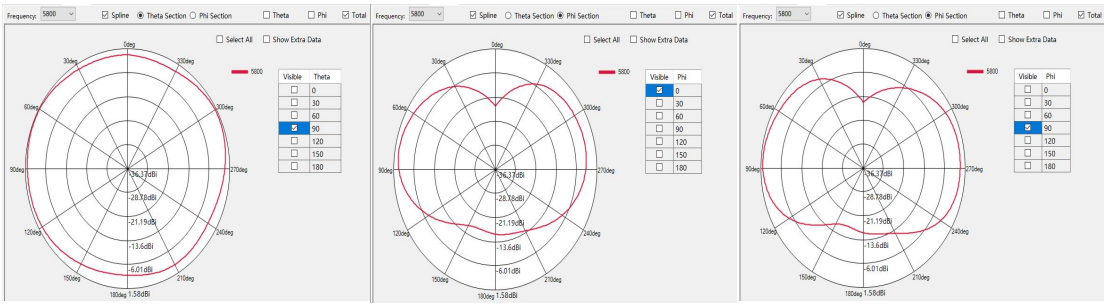
2D Radiation Pattern at 5200MHz



2D Radiation Pattern at 5500MHz



2D Radiation Pattern at 5800MHz



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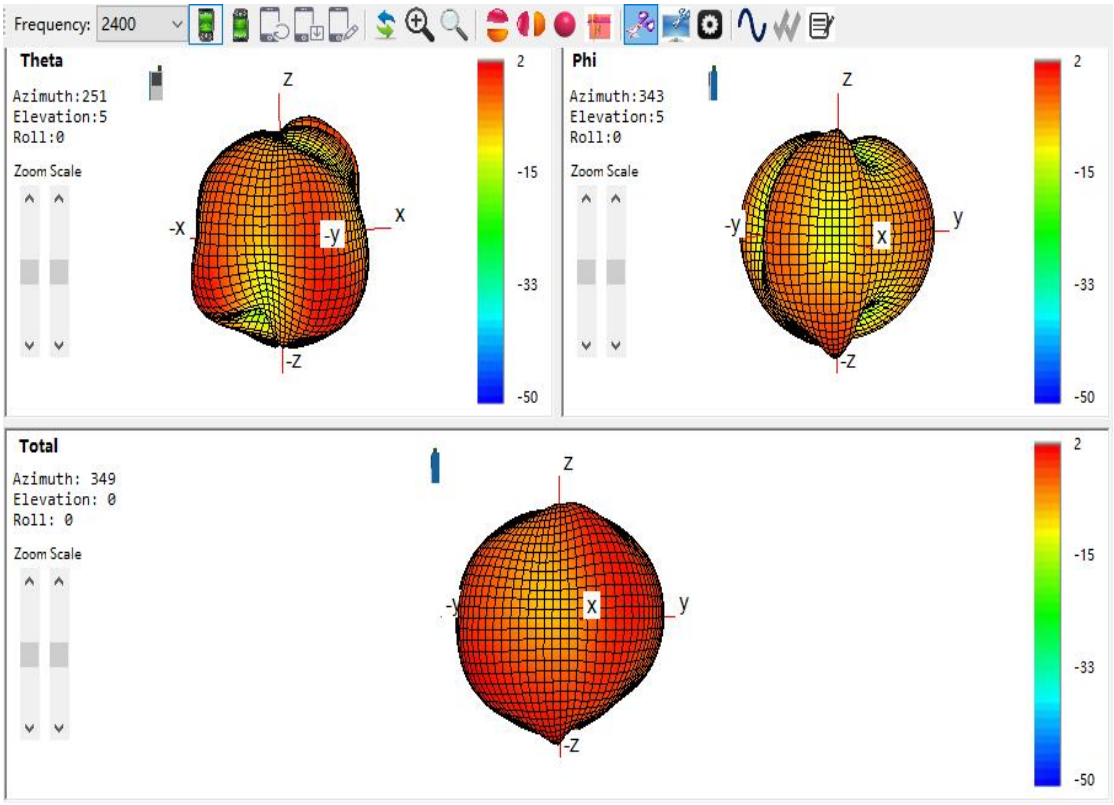
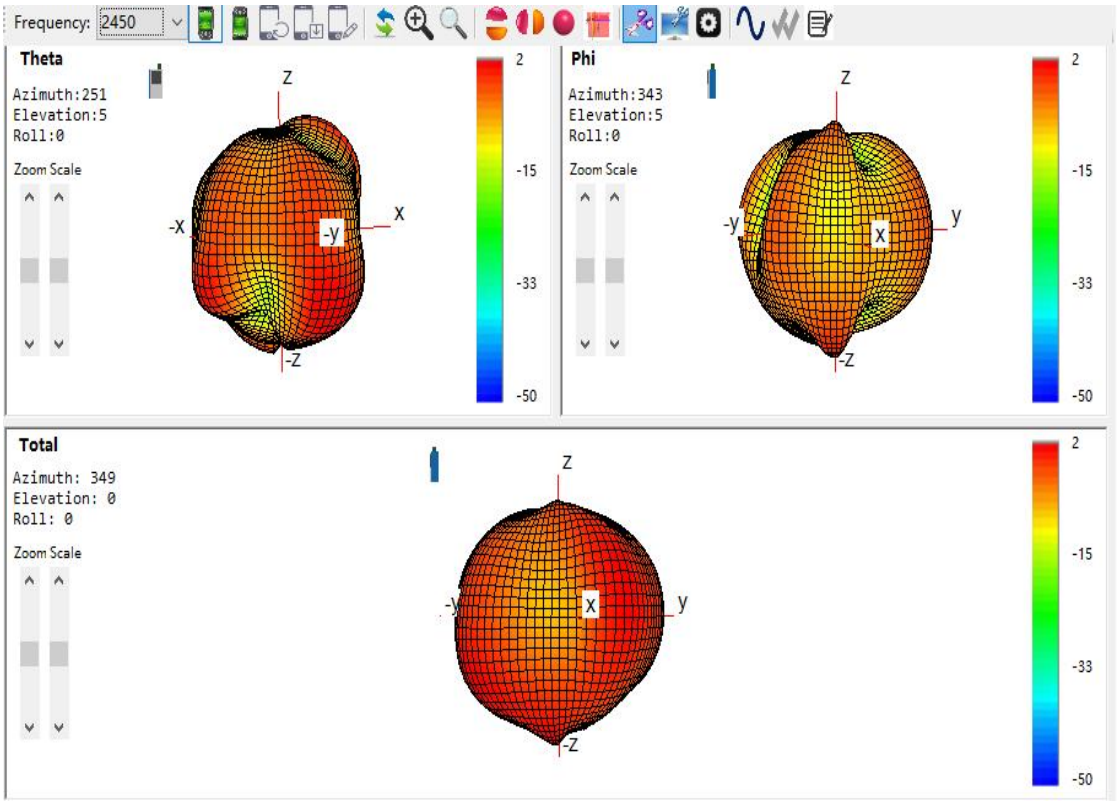
3D Radiation Pattern at 2400MHz



3D Radiation Pattern at 2450MHz



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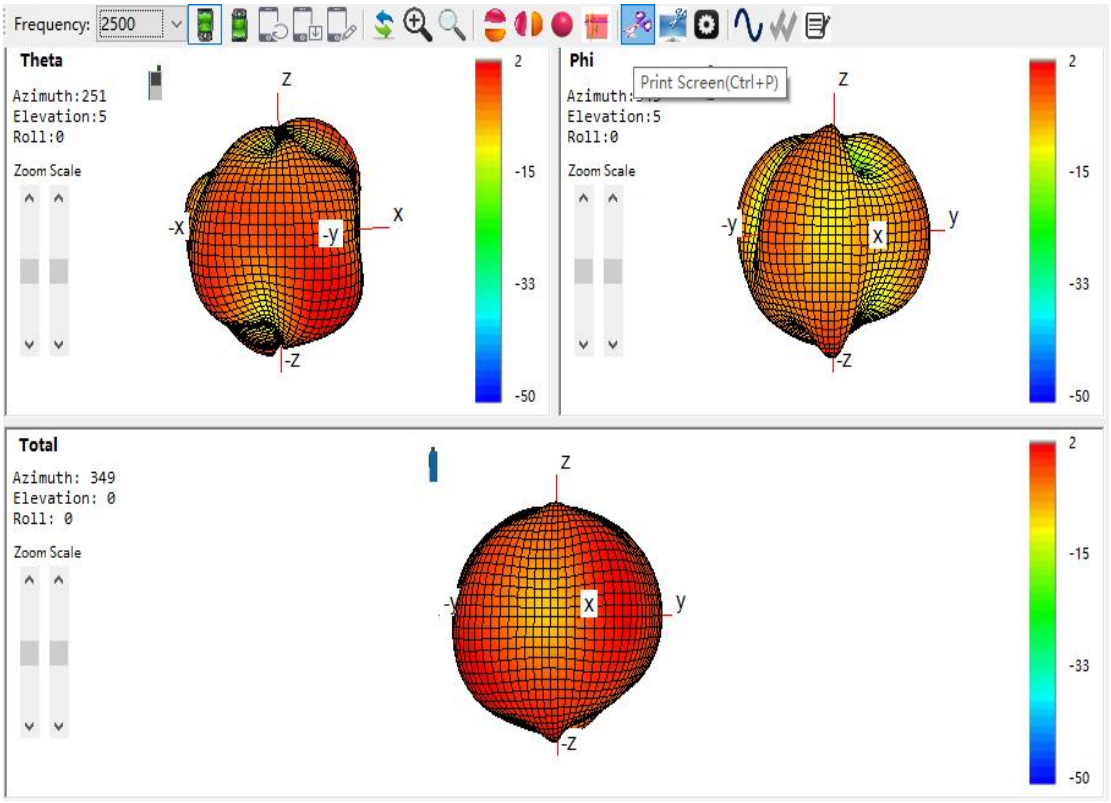
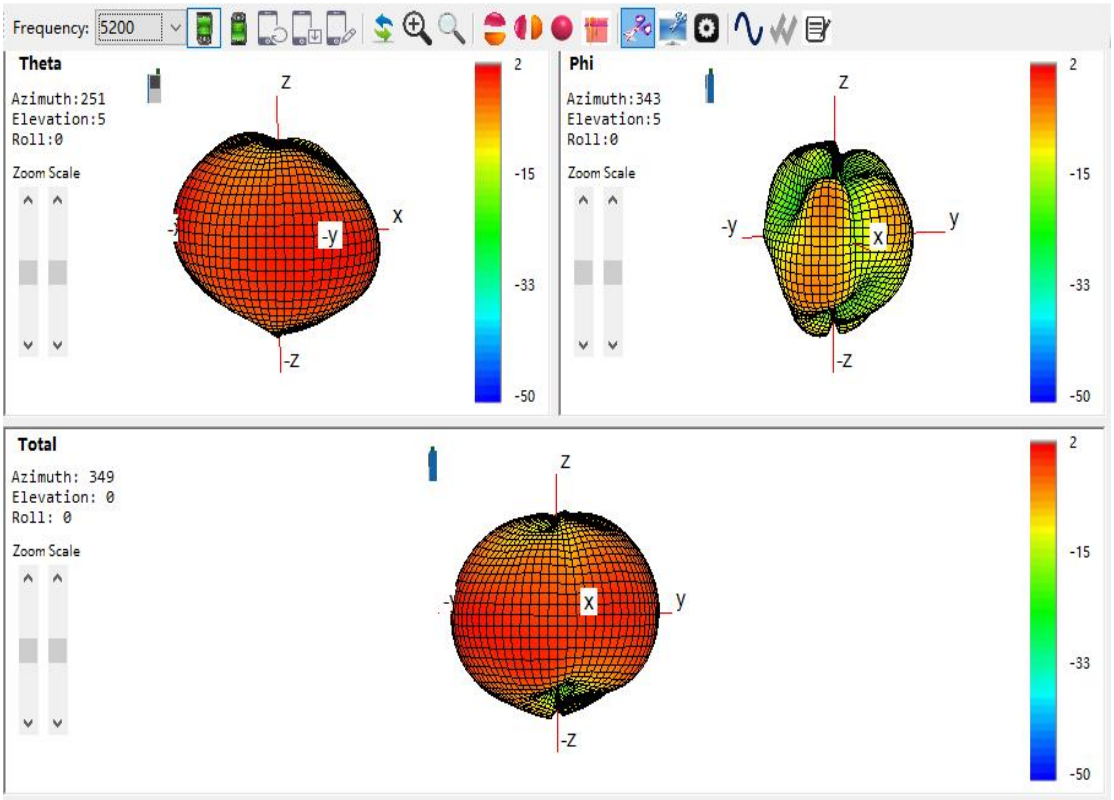
3D Radiation Pattern at 2500MHz



3D Radiation Pattern at 5200MHz



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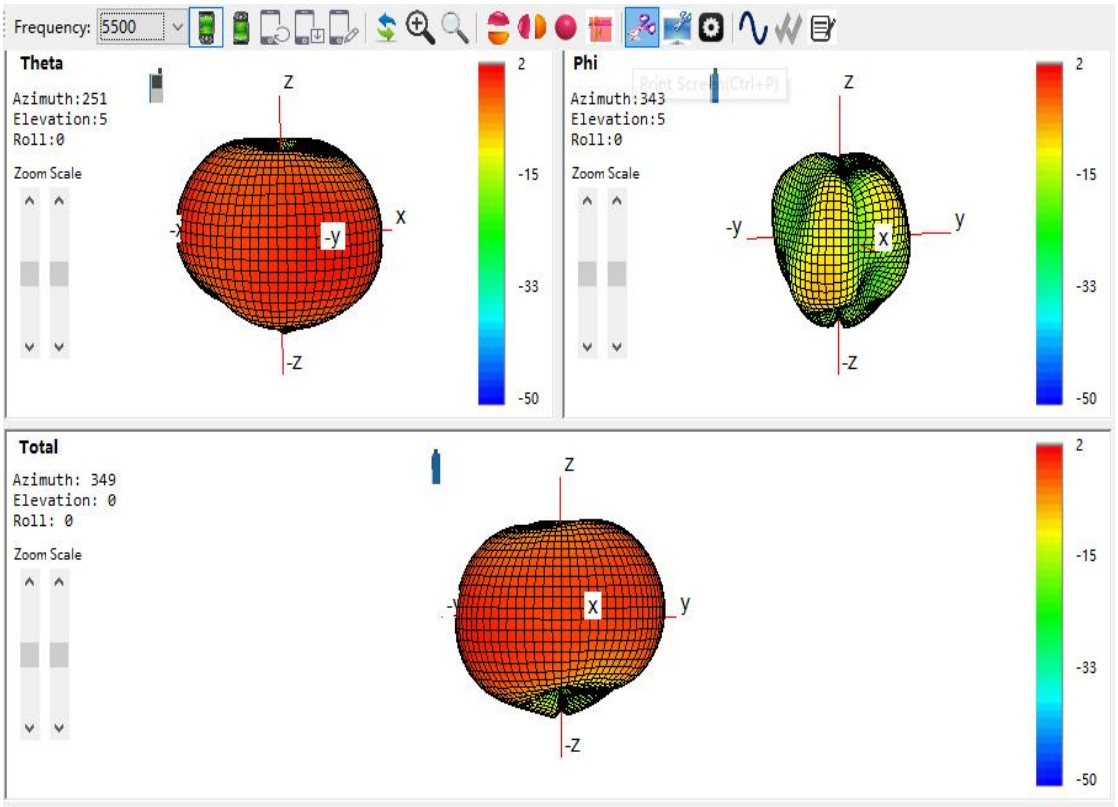
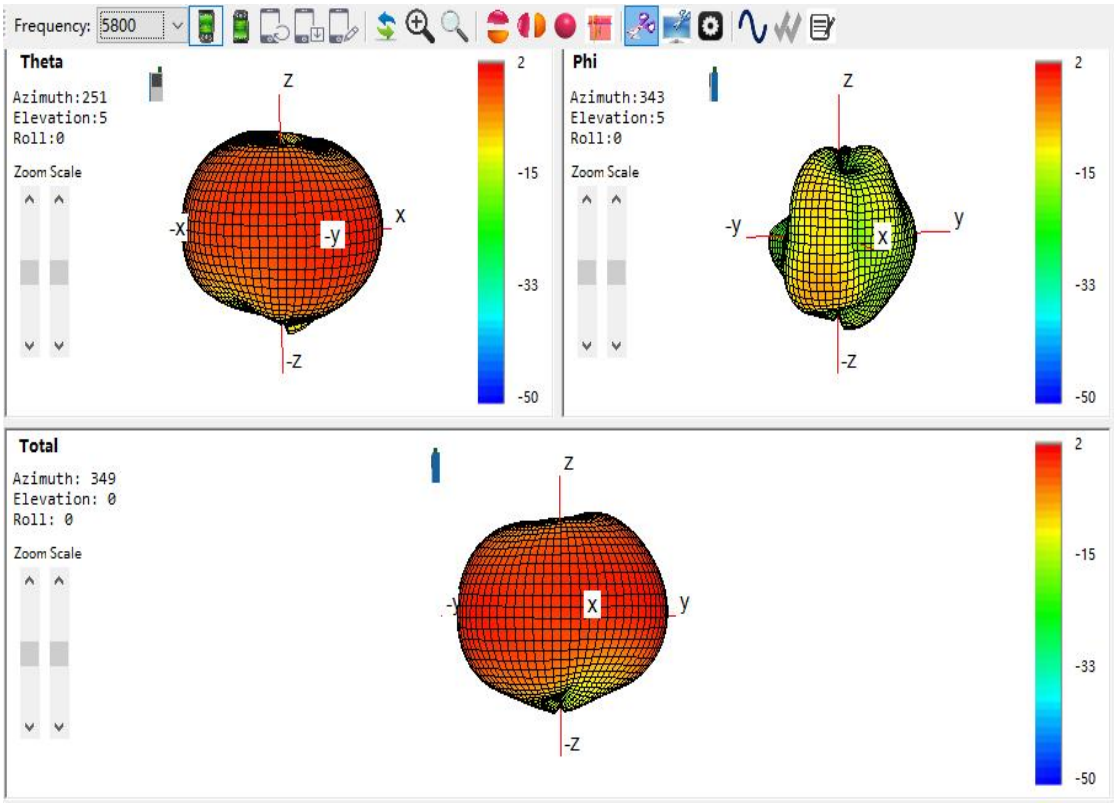
3D Radiation Pattern at 5500MHz



3D Radiation Pattern at 5800MHz



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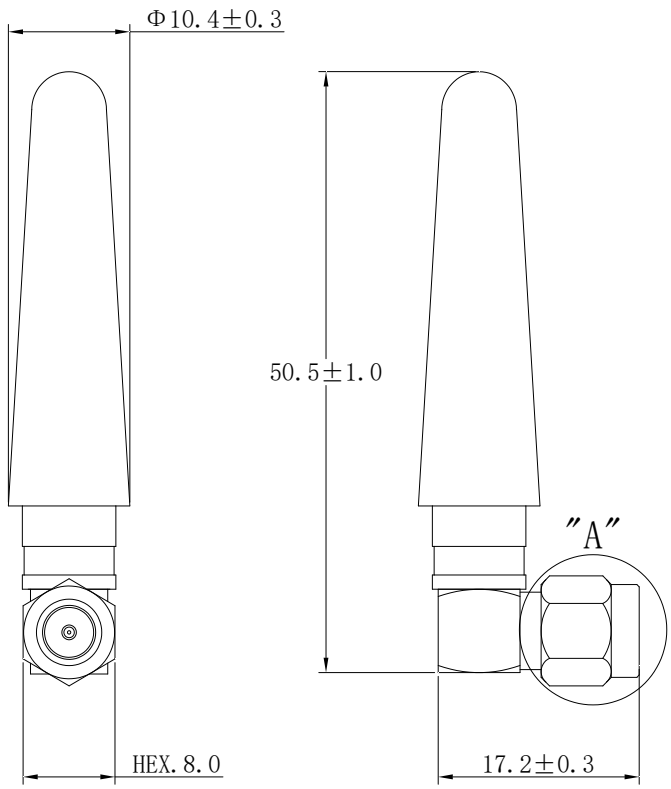
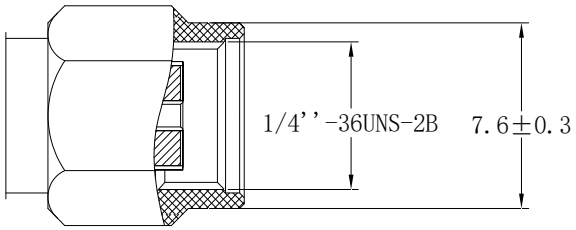
HOUSING CONFIGURATIONS





DETAIL A
SCALE 2:1

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