

WIFI 7 Dipole Waterproof Whip Antenna

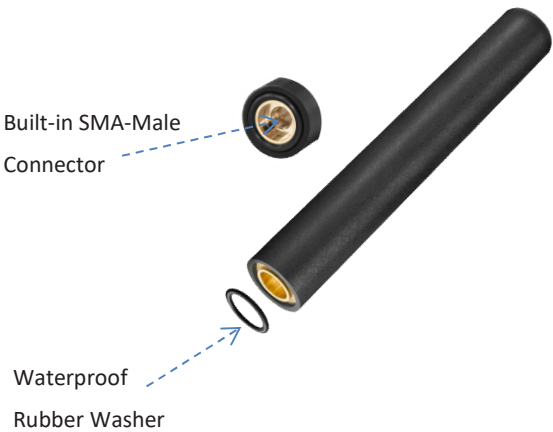
FEATURES & BENEFITS



- Omnidirectional & Dipole Performance
- Ground Plane Independent Design
- Connector-Mounted, Whip Straight Antenna
- Weatherproof for Outdoor or Indoor Use
- 4.02 dBi Peak Gain

APPLICATIONS

- IoT Devices
- Remote Monitoring Systems
- Cellular Gateways and Routers
- Vehicle Telematics
- Smart Grid and Utility Monitoring
- Industrial Automation Systems



ORDER INFORMATION

Product Name	WIFI 7 Dipole Waterproof Whip Antenna
Part Number	AEWW027
Dimensions	Ø20 x 122mm
Weight	28 g
Color	Black
Outer Shell Material	ABS

REFERENCE GUIDE

Technical Features (MHz)	2400-2500	5100-7200
Max VSWR	2.2:1	4.8:1
Max Efficiency	86.36%	
Peak Gain	4.02dBi	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Input Impedance	50 Ω	
IP Rating	IP68	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Relative Humidity	10 to 70%	
Material Substance Compliance	RoHS Compliant	

Dimensions (L x W x H)	Ø20x 122 mm
All data were measured with a RF cable. Application data might vary.	

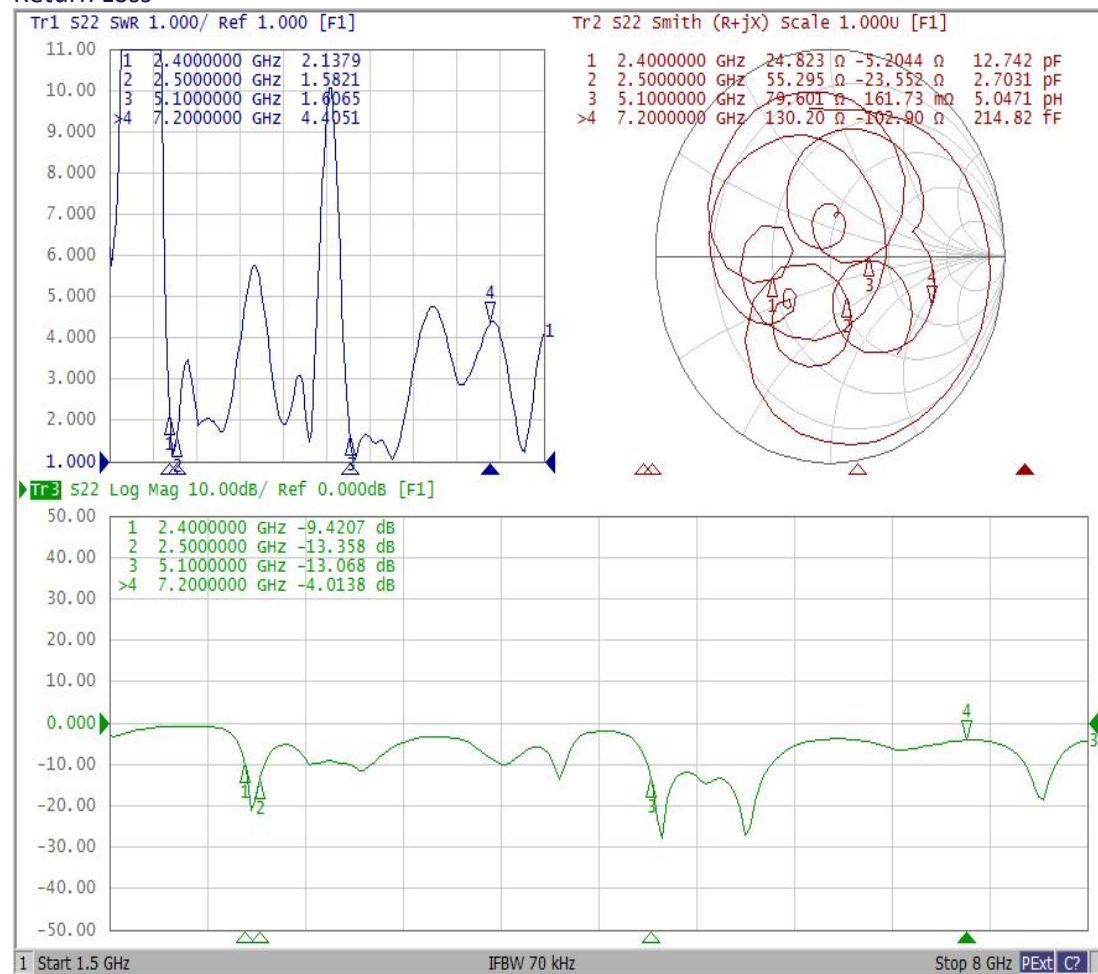
ELECTRICAL PERFORMANCE

Note

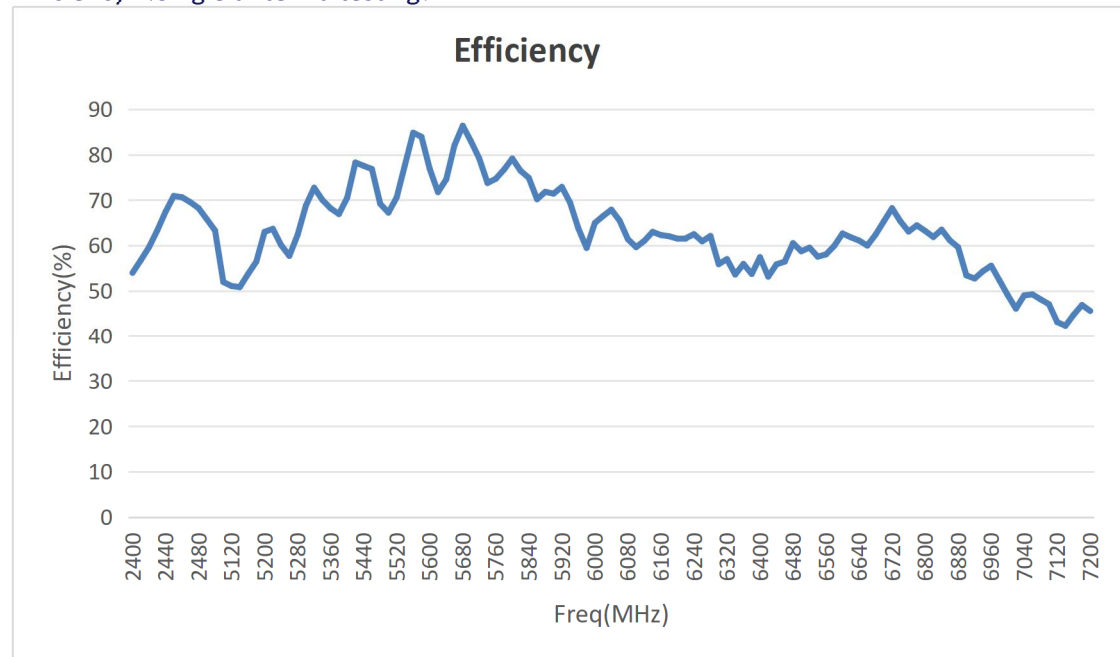
All the data shown in "Electrical Performance" were tested by directly connecting the antenna to the network analyzer.

ELECTRICAL DATA

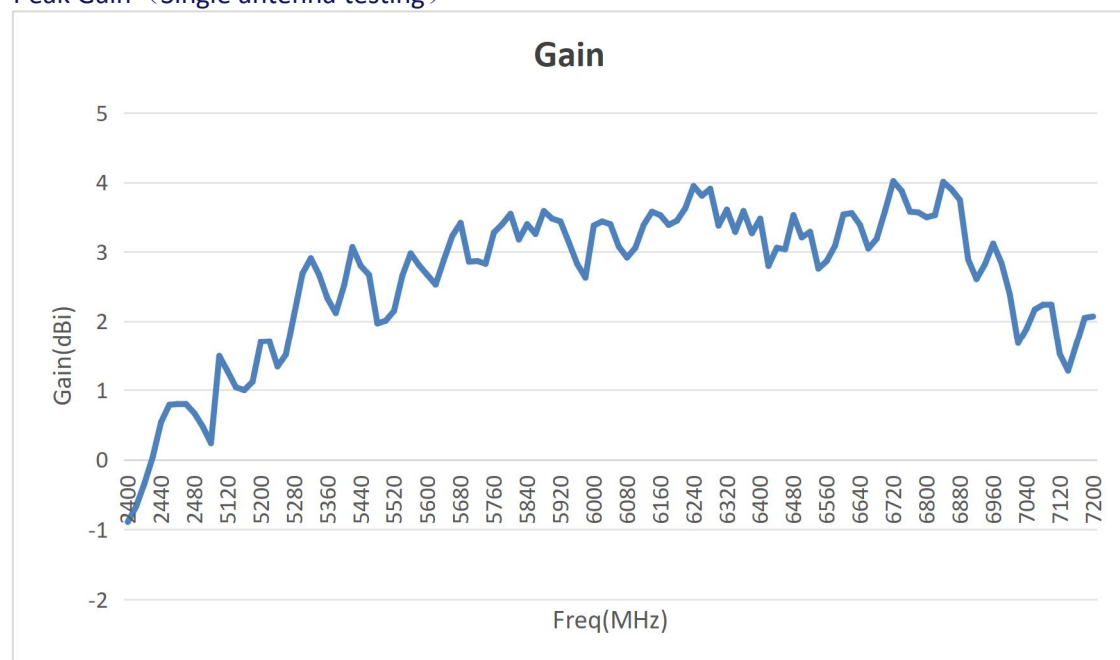
Return Loss



Efficiency (Single antenna testing)

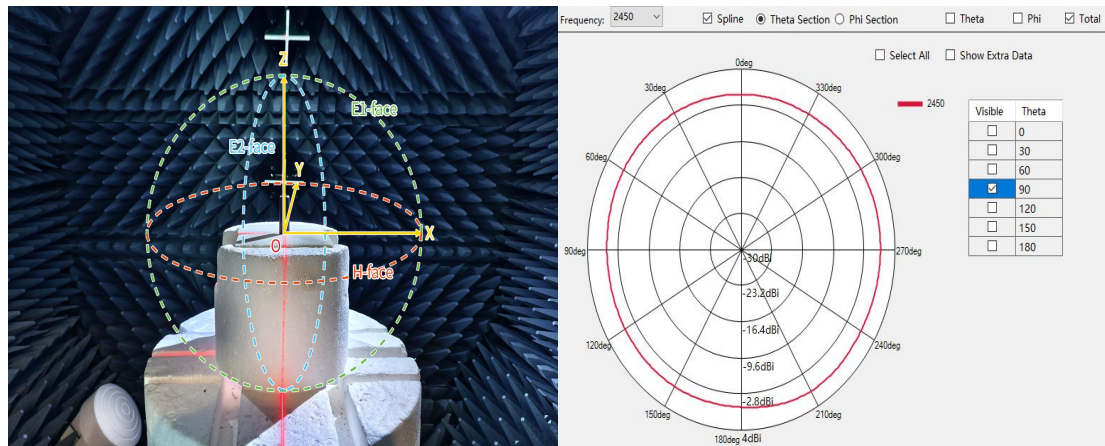


Peak Gain (Single antenna testing)



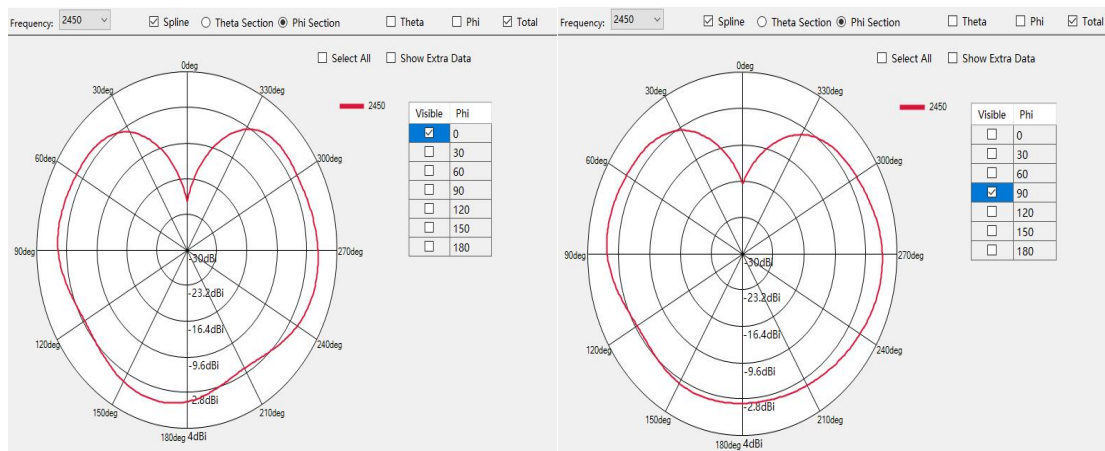
Freq(MHz)	Gain(dBi)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	-0.89	53.98	5660	3.23	82.06	6440	3.06	55.86
2410	-0.67	56.75	5680	3.42	86.36	6460	3.04	56.46
2420	-0.34	59.63	5700	2.86	82.92	6480	3.53	60.52
2430	0.04	63.31	5720	2.87	79.15	6500	3.21	58.74
2440	0.54	67.41	5740	2.83	73.76	6520	3.29	59.54
2450	0.79	70.90	5760	3.28	74.68	6540	2.76	57.54
2460	0.80	70.62	5780	3.40	76.71	6560	2.87	58.05
2470	0.80	69.54	5800	3.55	79.14	6580	3.09	59.93
2480	0.67	68.23	5820	3.18	76.45	6600	3.54	62.65
2490	0.48	65.79	5840	3.40	74.89	6620	3.56	61.81
2500	0.24	63.30	5860	3.26	70.19	6640	3.39	61.09
5100	1.49	51.97	5880	3.59	71.82	6660	3.05	59.99
5120	1.27	51.08	5900	3.48	71.41	6680	3.19	62.39
5140	1.04	50.85	5920	3.44	72.89	6700	3.59	65.32
5160	1.00	53.74	5940	3.14	69.44	6720	4.02	68.21
5180	1.12	56.46	5960	2.83	63.78	6740	3.88	65.35
5200	1.70	63.01	5980	2.63	59.47	6760	3.58	63.07
5220	1.71	63.67	6000	3.38	64.96	6780	3.57	64.45
5240	1.34	60.09	6020	3.44	66.49	6800	3.50	63.22
5260	1.51	57.72	6040	3.40	67.89	6820	3.53	61.87
5280	2.10	62.35	6060	3.08	65.48	6840	4.01	63.49
5300	2.69	68.78	6080	2.92	61.40	6860	3.90	61.12
5320	2.91	72.72	6100	3.06	59.64	6880	3.75	59.62
5340	2.67	70.03	6120	3.39	61.04	6900	2.89	53.42
5360	2.33	68.18	6140	3.58	63.00	6920	2.61	52.74
5380	2.12	66.93	6160	3.53	62.30	6940	2.82	54.34
5400	2.52	70.49	6180	3.39	62.04	6960	3.12	55.56
5420	3.07	78.26	6200	3.45	61.51	6980	2.84	52.35
5440	2.80	77.54	6220	3.63	61.58	7000	2.39	49.11
5460	2.67	76.83	6240	3.95	62.50	7020	1.68	46.10
5480	1.97	69.19	6260	3.81	60.92	7040	1.89	49.03
5500	2.01	67.24	6280	3.91	62.10	7060	2.17	49.24
5520	2.15	70.59	6300	3.38	55.90	7080	2.24	48.14
5540	2.66	77.74	6320	3.61	57.00	7100	2.24	47.09
5560	2.98	84.82	6340	3.29	53.61	7120	1.52	43.14
5580	2.81	83.92	6360	3.59	55.94	7140	1.28	42.33
5600	2.67	76.87	6380	3.27	53.74	7160	1.66	44.78
5620	2.53	71.75	6400	3.48	57.43	7180	2.05	46.90
5640	2.89	74.56	6420	2.80	53.15	7200	2.07	45.59

2D and 3D Radiation Patterns (Single antenna testing)



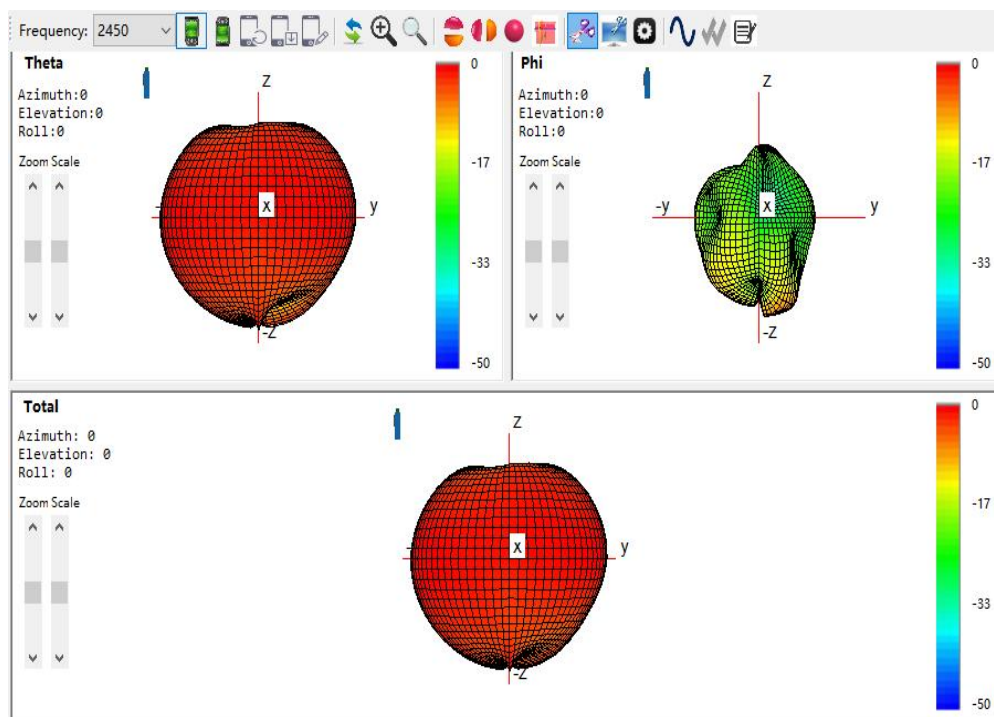
The Antenna in MyAntenna's Anechoic Chamber

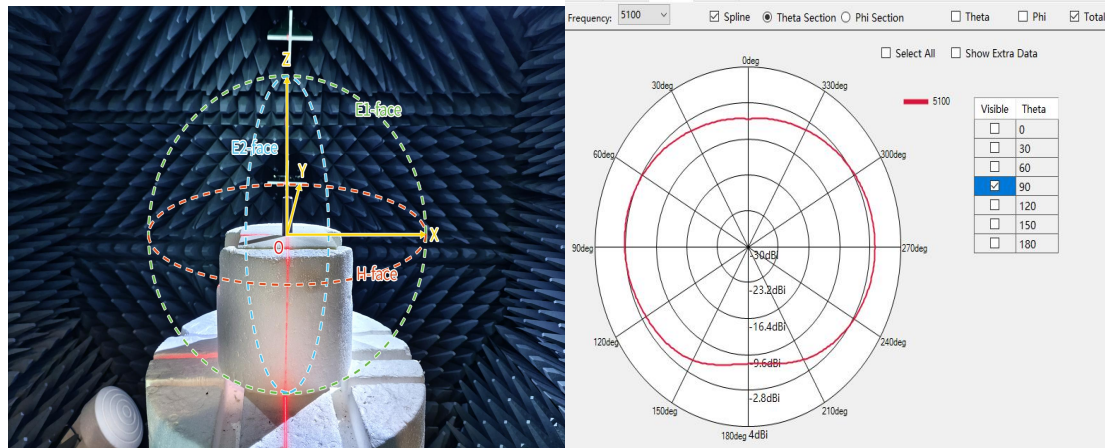
2D $\theta = 90^\circ$ Plane XY at 2450MHz



2D $\theta = 0^\circ$ Plane XZ at 2450MHz

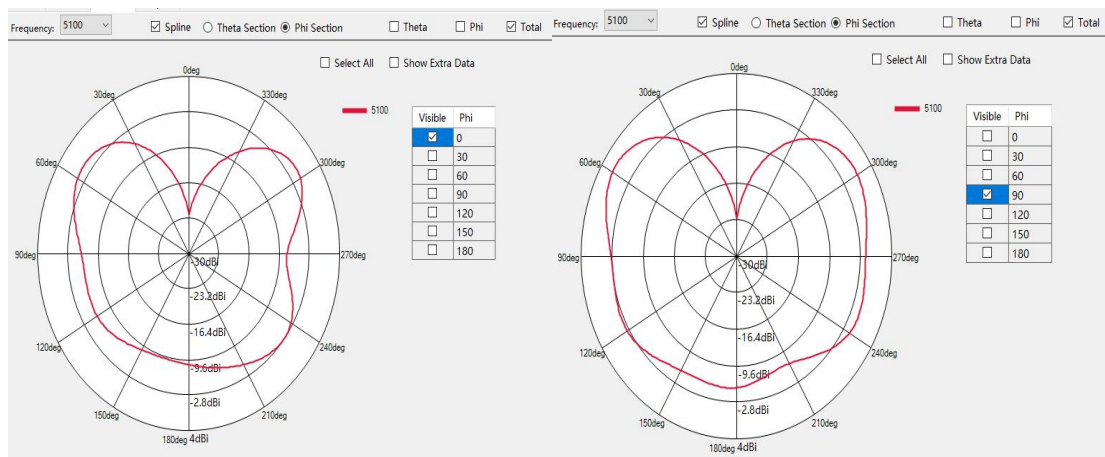
2D $\theta = 90^\circ$ Plane YZ at 2450MHz





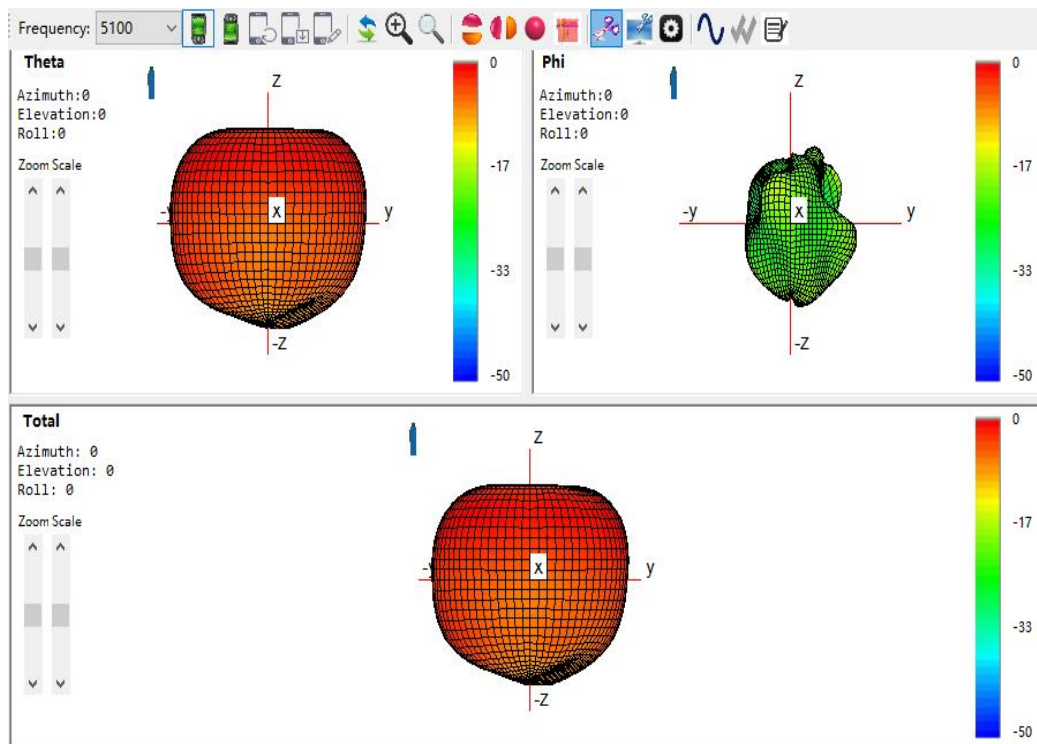
The Antenna in MyAntenna's Anechoic Chamber

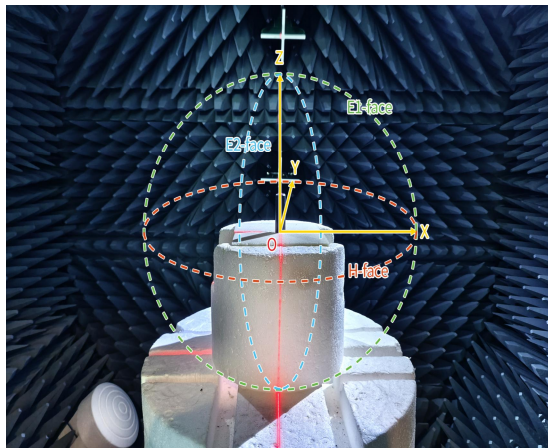
2D $\theta = 90^\circ$ Plane XY at 5100MHz



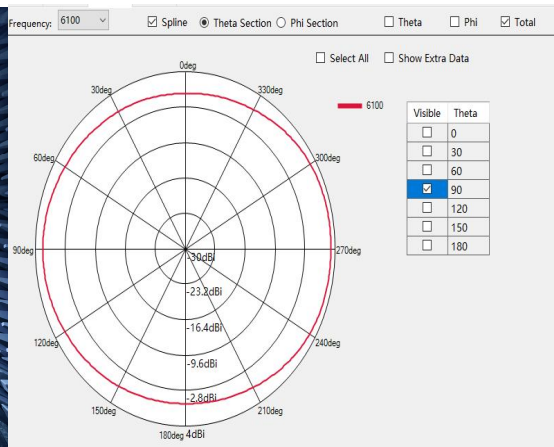
2D $\Phi = 0^\circ$ Plane XZ at 5100MHz

2D $\Phi = 90^\circ$ Plane YZ at 5100MHz

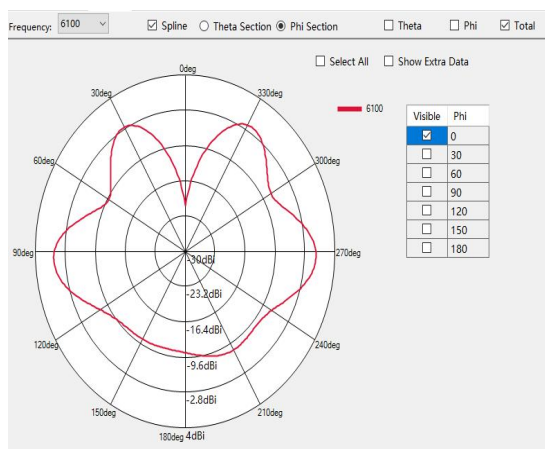




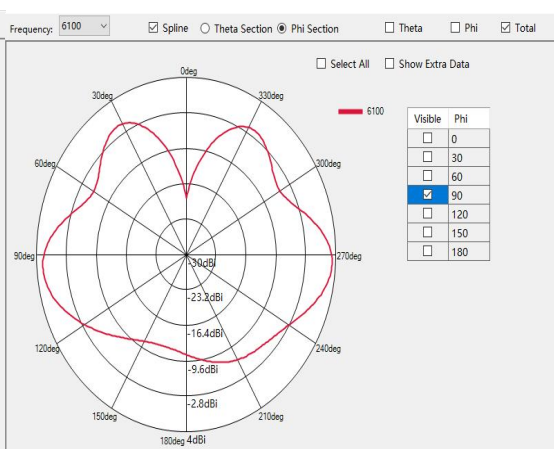
The Antenna in MyAntenna's Anechoic Chamber



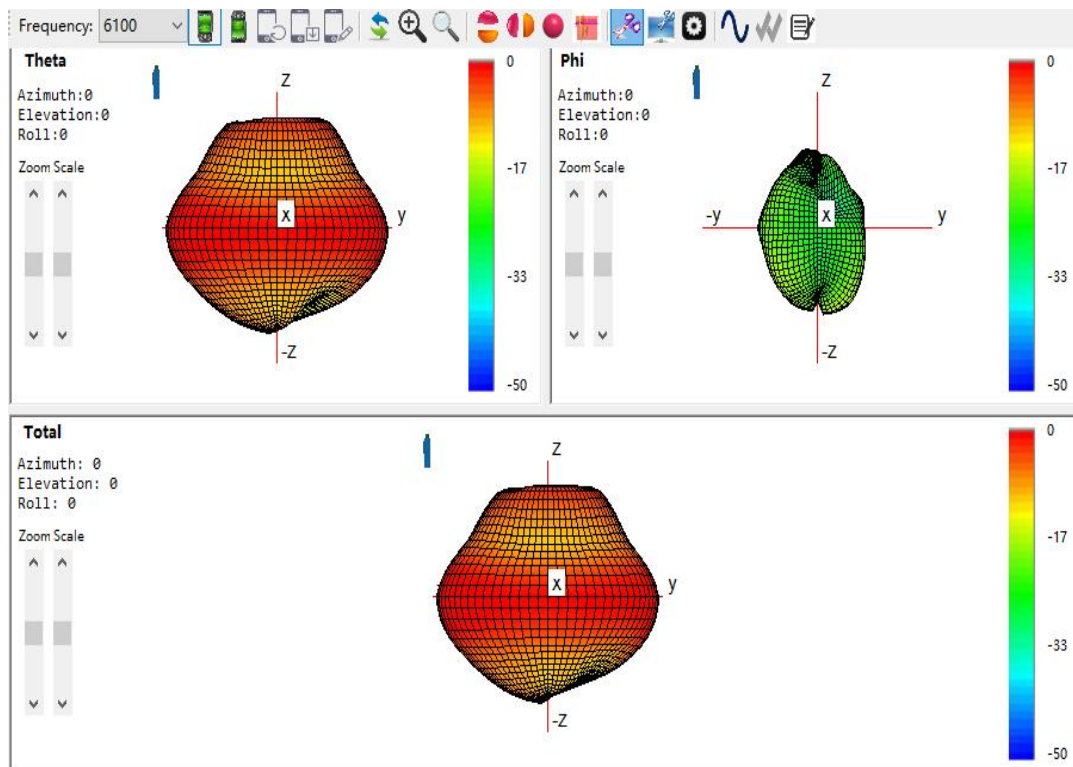
2D $\theta = 90^\circ$ Plane XY at 6100MHz

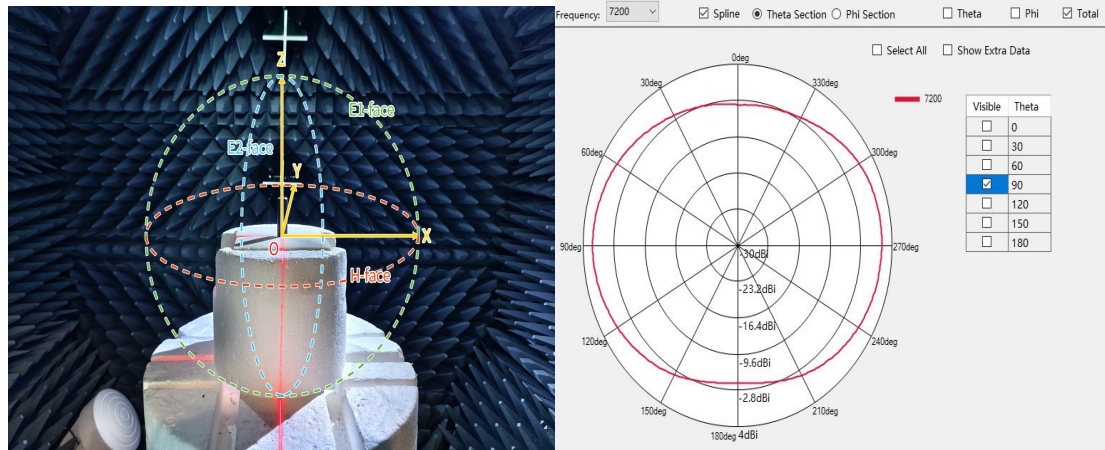


2D $\Phi = 0^\circ$ Plane XZ at 6100MHz



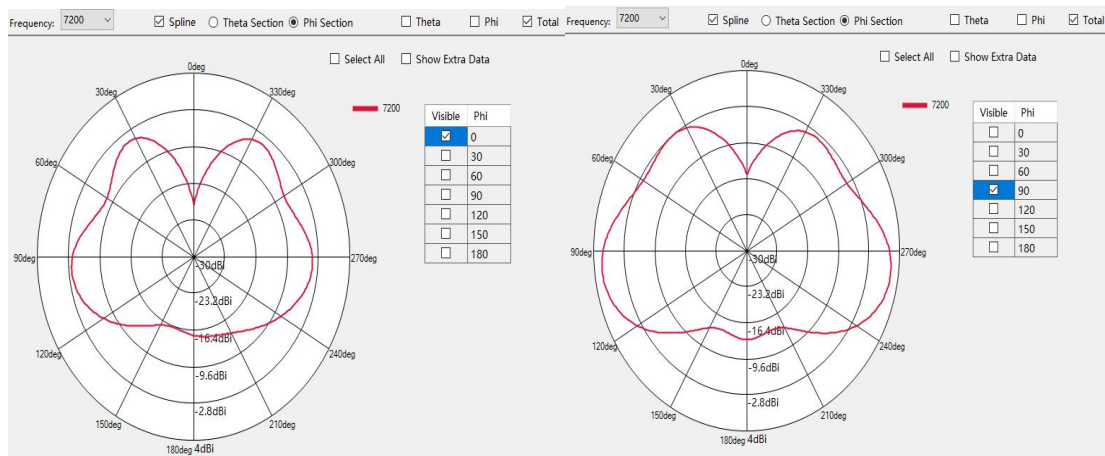
2D $\Phi = 90^\circ$ Plane YZ at 6100MHz





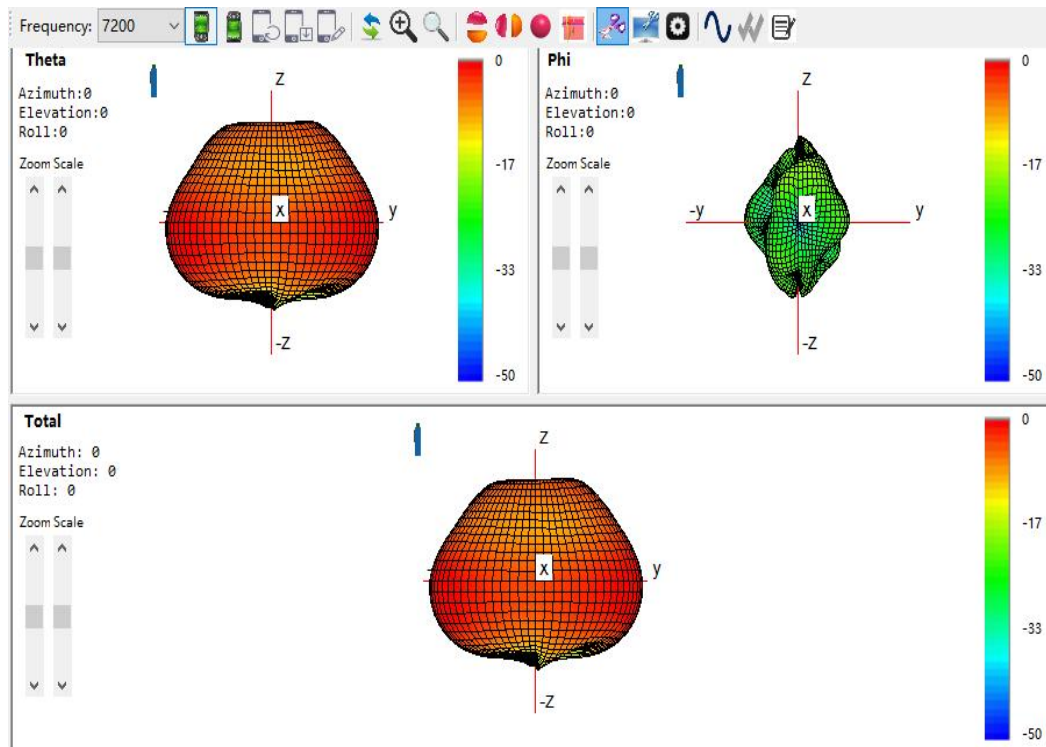
The Antenna in MyAntenna's Anechoic Chamber

2D $\theta = 90^\circ$ Plane XY at 7200MHz

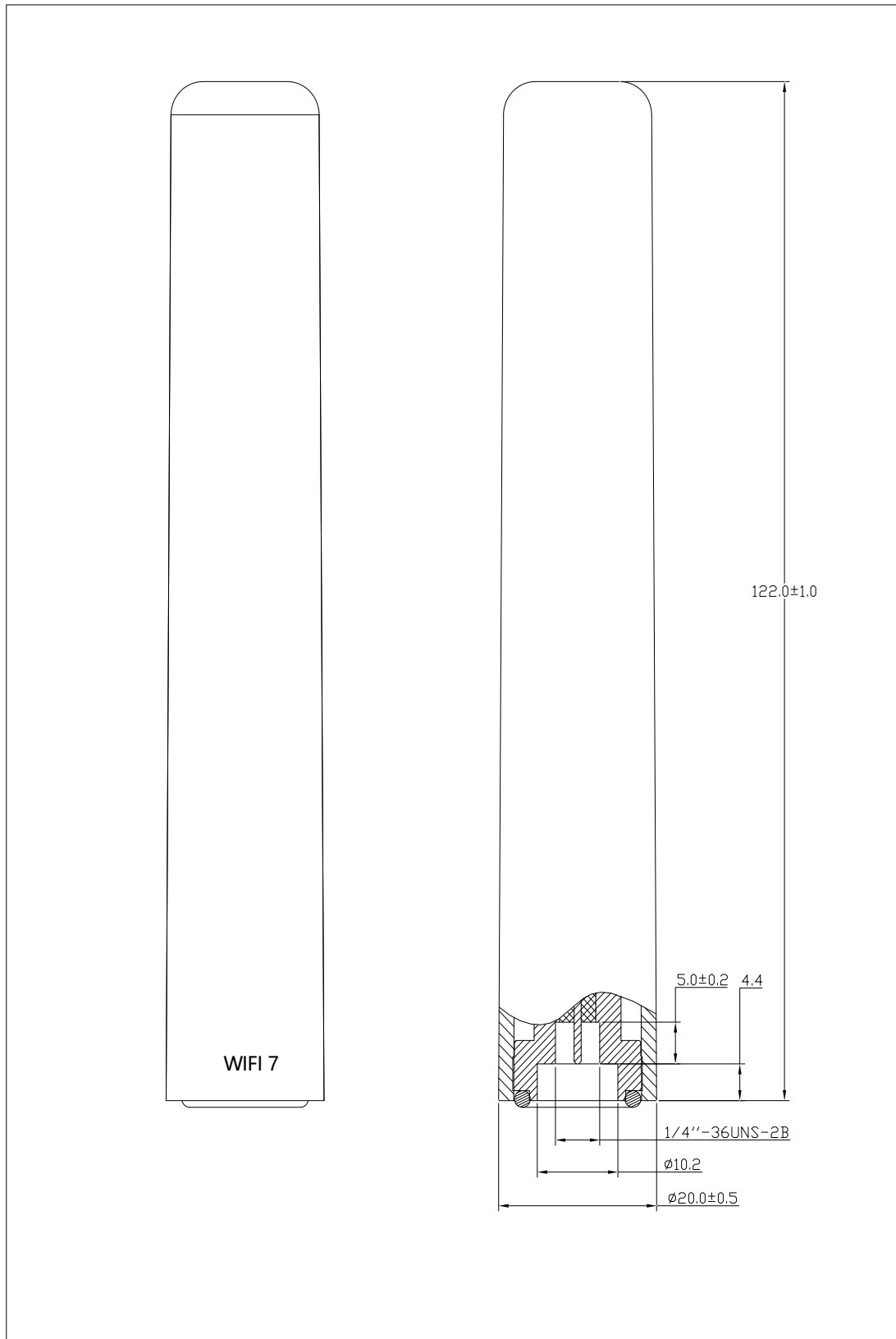


2D $\Phi = 0^\circ$ Plane XZ at 7200MHz

2D $\Phi = 90^\circ$ Plane YZ at 7200MHz



HOUSING CONFIGURATIONS



AboostyTM is owned by Shenzhen MyAntenna RF Technology Co., Ltd. (often abbreviated as MyAntenna).