

5G 98.3x17.2 L100CM1 Antenna

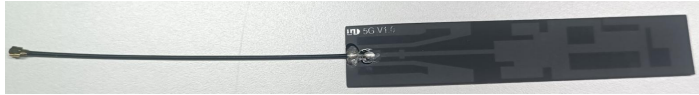
FEATURES & BENEFITS



- Welding RG 1.13 cable, IpeX connector, 3M sticker for easy installation.
- Mounting to: non-conductive surface
- Installation type: adhesive

APPLICATIONS

- IoT Devices
- Smart Cities
- Smart Agriculture
- Consumer Tracking
- Smart Metering
- Smart Agriculture



ORDER INFORMATION

Product Name	5G 98.3x17.2 L100CM1 Antenna
Part Number	M01-0100090R0A
Dimensions	98.32 x 17.2 mm
Weight	0.9 g
Color	Black
Mounting	adhesive
Antenna Cable	Default IPEX 1 RF 1.13 black coaxial cable (Ø 1.13 x 100 mm) , customizable.

REFERENCE GUIDE

Technical Features (MHz)	617-960	1427-6000
Max VSWR	14.0:1	2.2:1
Max Efficiency	82.17%	
Peak Gain	4.17dBi	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Input Impedance	50 Ω	
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)	98.32x 17.2mm	
All test data were obtained from testing conducted on 1.4mm thick polycarbonate (PC) plastic material; with an 100-mm-long RF 1.13 cable.Application data might vary.		

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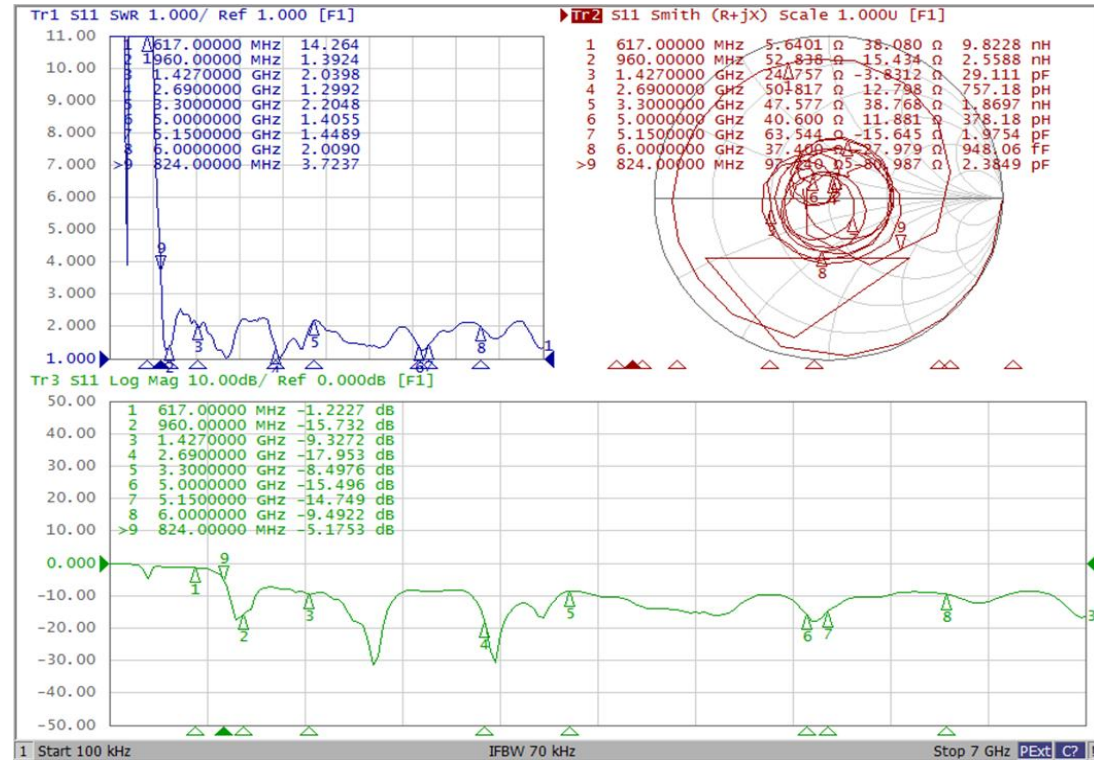
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ELECTRICAL PERFORMANCE

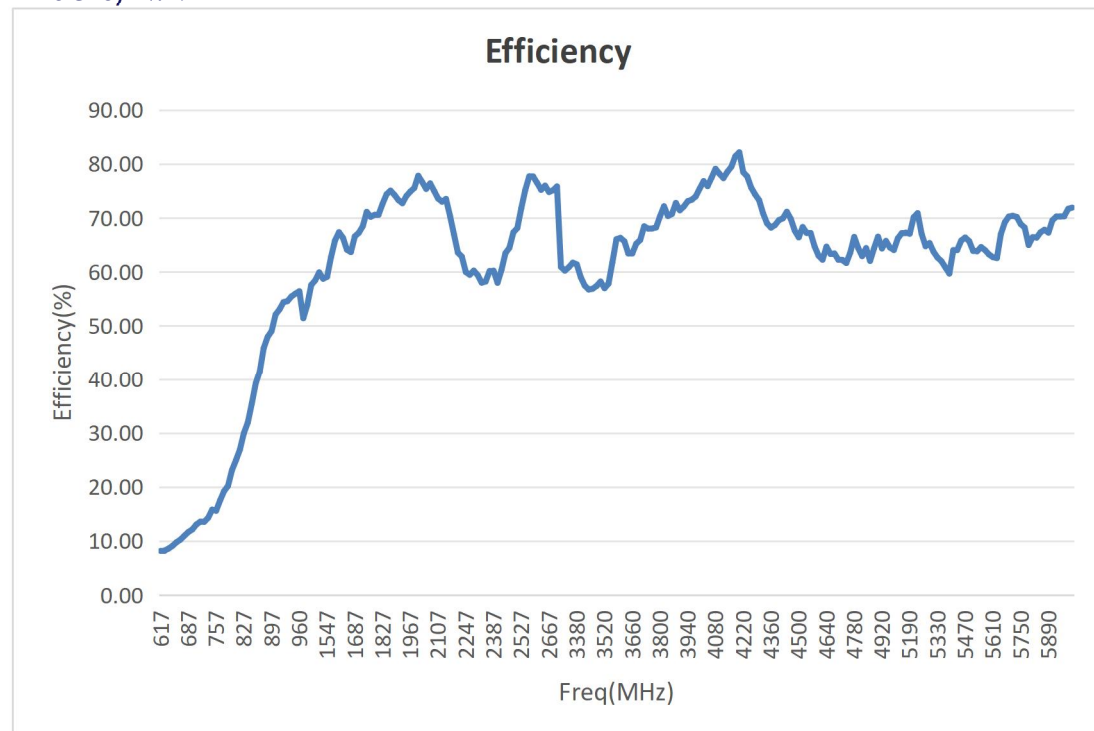
Note

All data displayed in the "ELECTRICAL PERFORMANCE" section were measured using a 100mm-long RF 1.13 cable mounted on 1.4mm thick polycarbonate (PC) plastic material.

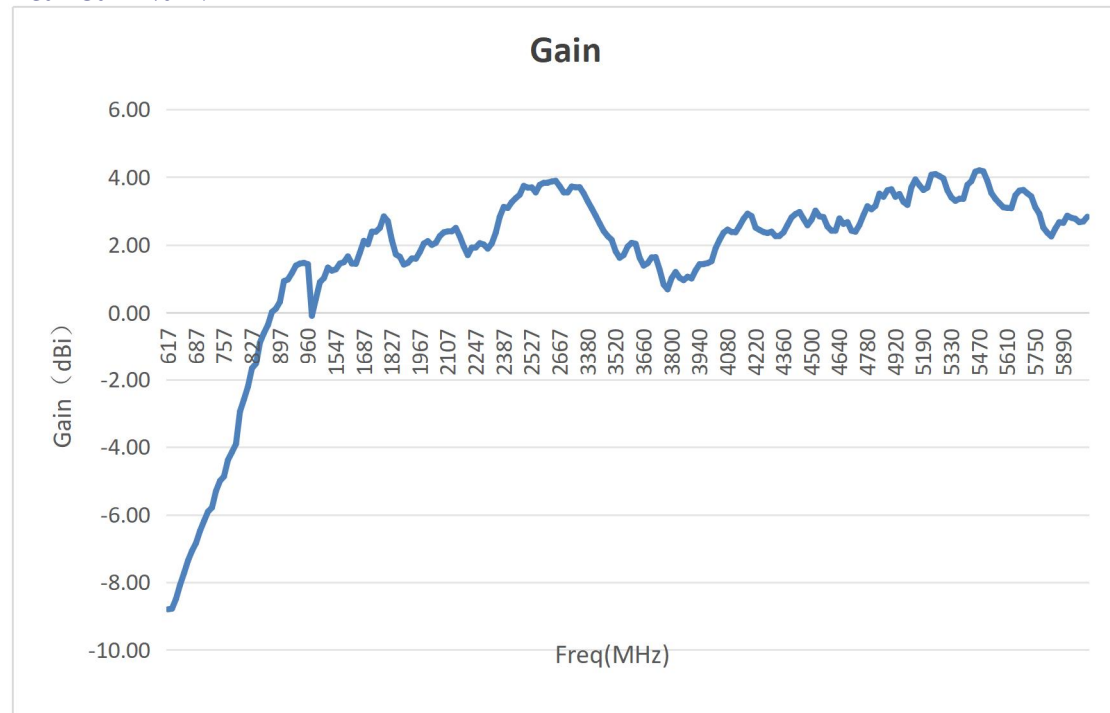
Return Loss



Efficiency (%)



Peak Gain (dBi)



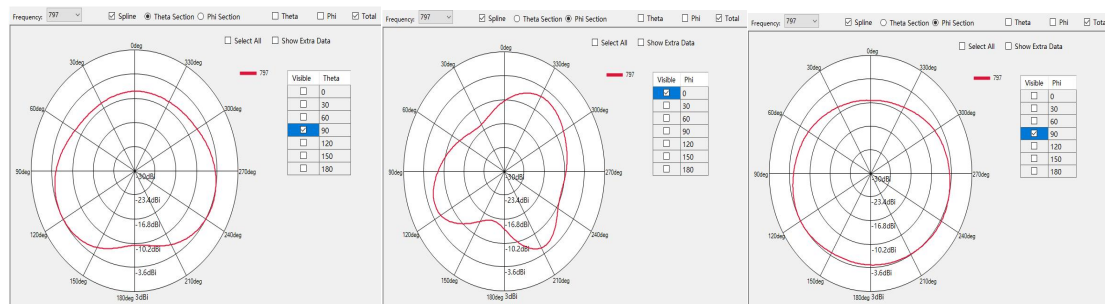
Freq(MHz)	Gain (dBi)	Efficiency(%)	Freq(MHz)	Gain (dBi)	Efficiency(%)	Freq(MHz)	Gain (dBi)	Efficiency(%)
617	-8.80	8.17	2247	1.93	59.98	4360	2.37	68.21
627	-8.78	8.24	2267	2.05	59.47	4380	2.59	68.68
637	-8.49	8.60	2287	2.01	60.24	4400	2.81	69.60
647	-8.08	9.11	2307	1.89	59.41	4420	2.91	69.93
657	-7.73	9.77	2327	2.04	58.01	4440	2.97	71.15
667	-7.36	10.26	2347	2.36	58.22	4460	2.77	69.82
677	-7.07	10.98	2367	2.83	60.16	4480	2.58	67.64
687	-6.84	11.67	2387	3.12	60.25	4500	2.74	66.41
697	-6.48	12.14	2407	3.09	57.99	4520	3.01	68.32
707	-6.19	13.05	2427	3.26	60.38	4540	2.84	67.22
717	-5.91	13.57	2447	3.38	63.48	4560	2.82	67.20
727	-5.79	13.55	2467	3.48	64.48	4580	2.54	64.72
737	-5.30	14.31	2487	3.74	67.34	4600	2.42	63.01
747	-5.00	15.80	2507	3.69	68.13	4620	2.42	62.26
757	-4.87	15.60	2527	3.70	71.84	4640	2.78	64.67
767	-4.38	17.51	2547	3.55	75.18	4660	2.62	63.34
777	-4.15	19.22	2567	3.77	77.71	4680	2.67	63.44
787	-3.91	20.20	2587	3.83	77.64	4700	2.42	62.25
797	-2.95	23.12	2607	3.84	76.49	4720	2.39	62.19
807	-2.59	24.93	2627	3.87	75.22	4740	2.59	61.66
817	-2.21	26.91	2647	3.89	75.99	4760	2.88	63.58
827	-1.67	29.96	2667	3.73	74.81	4780	3.14	66.48
837	-1.53	31.94	2687	3.55	75.13	4800	3.05	64.43

847	-0.88	35.42	2690	3.55	75.84	4820	3.15	62.93
857	-0.60	39.20	3300	3.72	60.92	4840	3.51	64.41
867	-0.36	41.45	3320	3.70	60.24	4860	3.42	62.05
877	0.02	45.86	3340	3.70	60.88	4880	3.61	64.38
887	0.12	47.96	3360	3.52	61.71	4900	3.64	66.53
897	0.32	49.04	3380	3.29	61.40	4920	3.42	64.35
907	0.93	52.10	3400	3.08	59.02	4940	3.50	65.74
917	0.98	53.06	3420	2.86	57.47	4960	3.27	64.52
927	1.17	54.40	3440	2.63	56.74	4980	3.18	64.07
937	1.39	54.59	3460	2.41	56.88	5000	3.70	66.23
947	1.45	55.45	3480	2.26	57.40	5150	3.93	67.19
957	1.47	55.97	3500	2.15	58.22	5170	3.76	67.30
960	1.43	56.42	3520	1.81	56.99	5190	3.62	67.08
1427	-0.09	51.42	3540	1.62	57.83	5210	3.69	70.13
1447	0.41	53.88	3560	1.70	61.85	5230	4.07	70.89
1467	0.90	57.59	3580	1.95	66.06	5250	4.09	67.06
1487	1.02	58.43	3600	2.06	66.31	5270	4.03	64.77
1507	1.33	59.91	3620	2.03	65.68	5290	3.96	65.35
1527	1.24	58.74	3640	1.62	63.42	5310	3.61	63.75
1547	1.28	59.10	3660	1.39	63.42	5330	3.40	62.67
1567	1.45	62.78	3680	1.46	65.23	5350	3.30	61.99
1587	1.49	65.84	3700	1.63	65.92	5370	3.36	60.83
1607	1.66	67.36	3720	1.64	68.45	5390	3.36	59.70
1627	1.45	66.33	3740	1.27	68.03	5410	3.77	64.04
1647	1.44	64.11	3760	0.83	68.06	5430	3.88	64.11
1667	1.77	63.68	3780	0.69	68.24	5450	4.16	65.82
1687	2.12	66.59	3800	1.02	70.32	5470	4.20	66.38
1707	2.02	67.25	3820	1.20	72.16	5490	4.17	65.71
1727	2.39	68.47	3840	1.03	70.37	5510	3.89	63.89
1747	2.39	71.13	3860	0.96	70.73	5530	3.53	63.81
1767	2.50	70.22	3880	1.06	72.78	5550	3.36	64.61
1787	2.84	70.58	3900	1.01	71.43	5570	3.23	64.04
1807	2.70	70.64	3920	1.25	72.12	5590	3.11	63.24
1827	2.14	72.64	3940	1.43	73.11	5610	3.09	62.73
1847	1.72	74.39	3960	1.44	73.38	5630	3.08	62.57
1867	1.65	75.07	3980	1.46	73.99	5650	3.46	67.03
1887	1.42	74.28	4000	1.52	75.44	5670	3.60	69.21
1907	1.47	73.31	4020	1.90	76.83	5690	3.62	70.26
1927	1.60	72.74	4040	2.15	75.90	5710	3.52	70.40
1947	1.59	74.07	4060	2.36	77.47	5730	3.43	70.19
1967	1.79	74.90	4080	2.45	79.11	5750	3.11	68.87
1987	2.04	75.56	4100	2.38	78.19	5770	2.92	68.22
2007	2.11	77.82	4120	2.37	77.39	5790	2.51	64.99
2027	2.00	76.65	4140	2.56	78.56	5810	2.36	66.43
2047	2.06	75.39	4160	2.77	79.49	5830	2.25	66.33

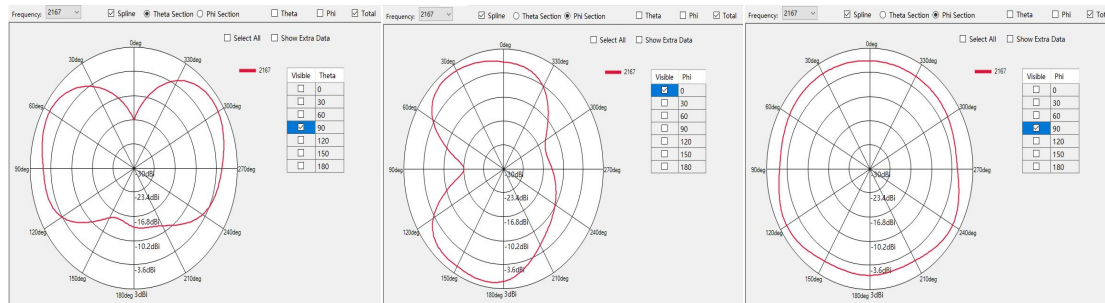
2067	2.26	76.41	4180	2.92	81.44	5850	2.48	67.34
2087	2.37	75.02	4200	2.85	82.17	5870	2.67	67.82
2107	2.40	73.60	4220	2.51	78.48	5890	2.65	67.29
2127	2.40	73.02	4240	2.44	77.69	5910	2.86	69.57
2147	2.50	73.53	4260	2.38	75.63	5930	2.80	70.27
2167	2.25	70.43	4280	2.35	74.35	5950	2.77	70.29
2187	1.95	67.00	4300	2.39	73.30	5970	2.67	70.37
2207	1.70	63.58	4320	2.26	70.85	5990	2.69	71.70
2227	1.92	62.83	4340	2.27	69.00	6000	2.83	71.92

RADIATION PATTERNS(The data were obtained through testing conducted using a 100-mm-long RF 1.13 cable mounted on a 1.4mm thick polycarbonate (PC) plastic substrate.)

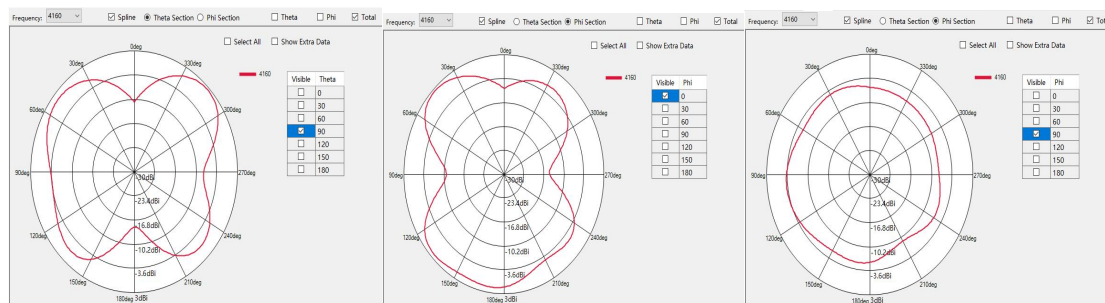
2D Radiation Pattern at 797MHz



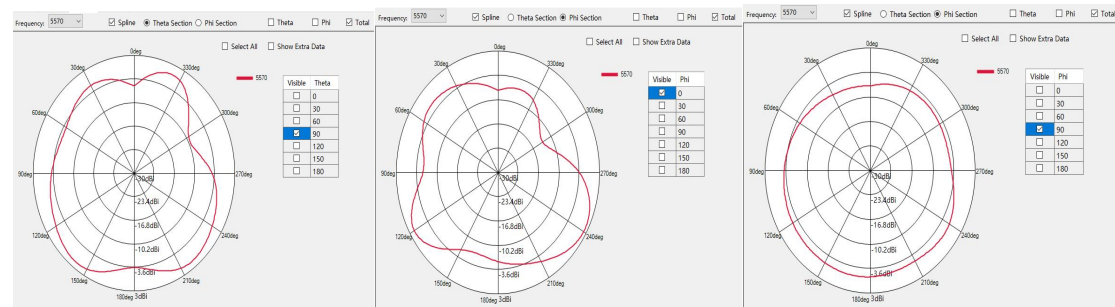
2D Radiation Pattern at 2167MHz



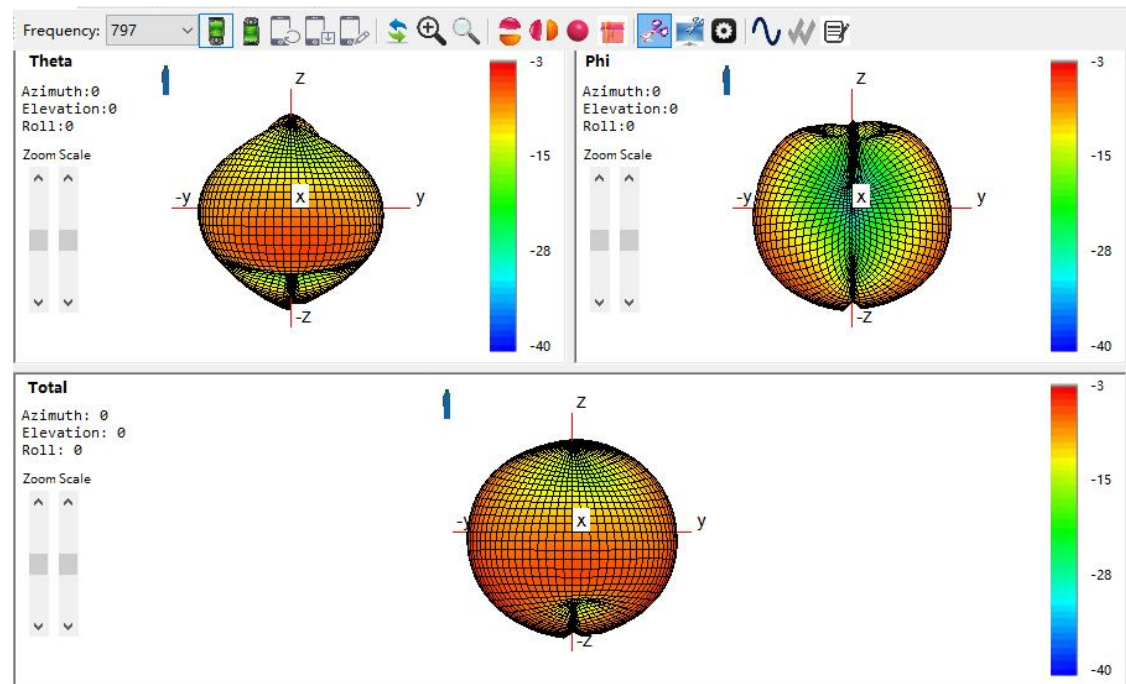
2D Radiation Pattern at 4160MHz



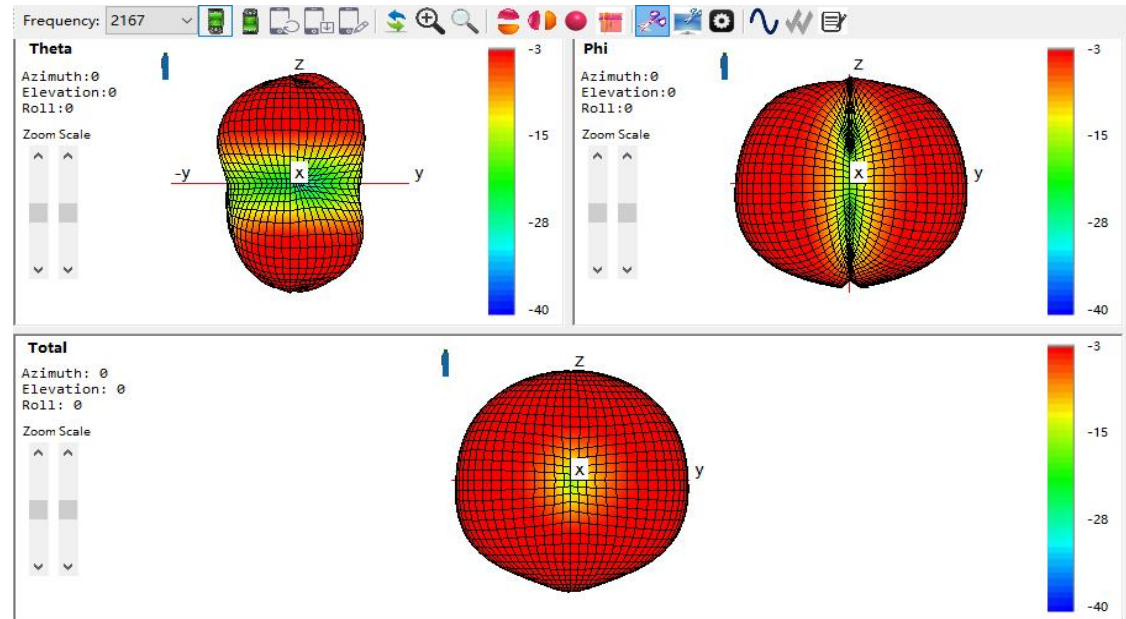
2D Radiation Pattern at 5570MHz



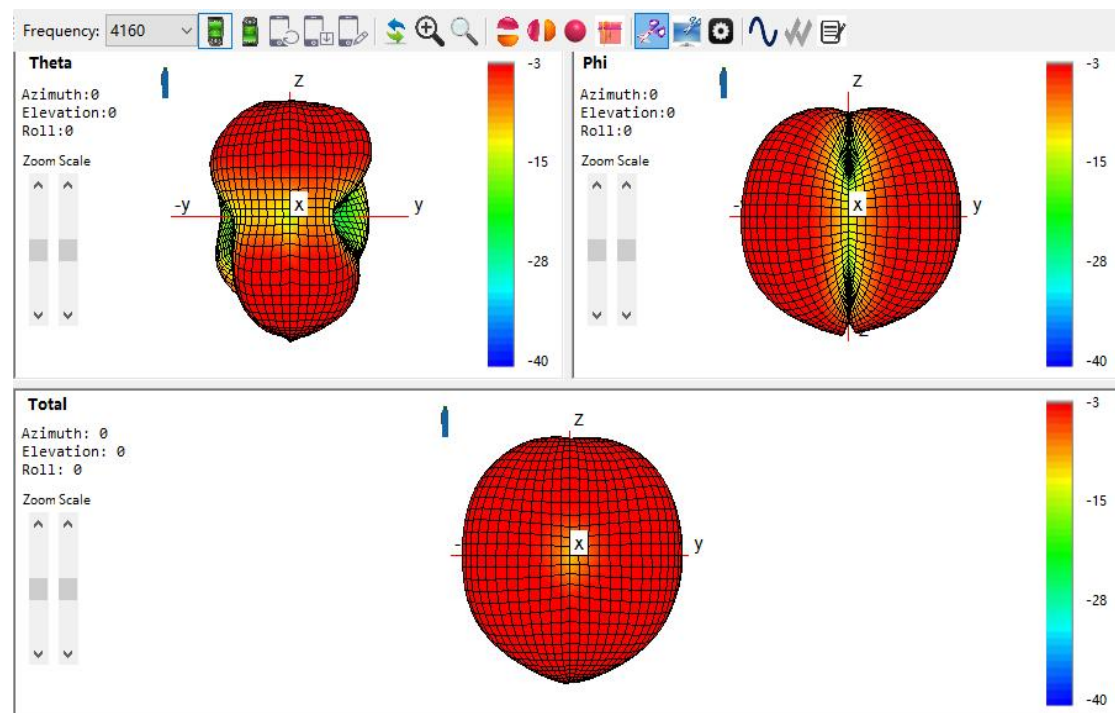
3D Radiation Pattern at 797MHz



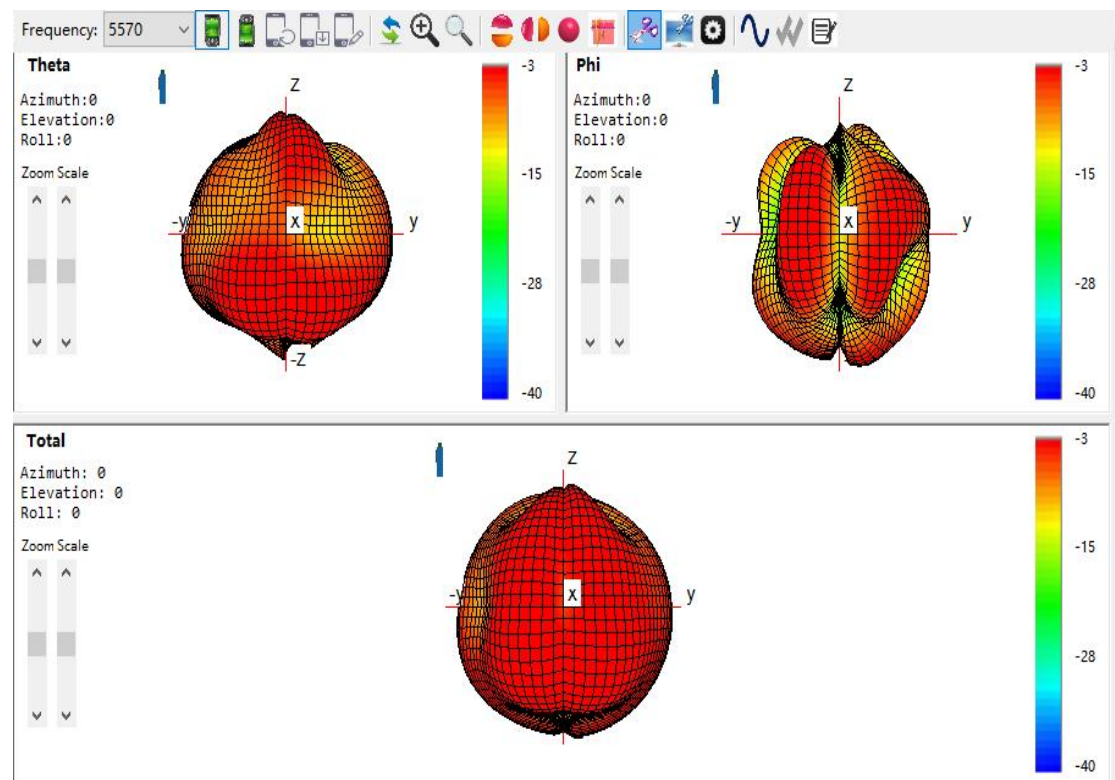
3D Radiation Pattern at 2167MHz



3D Radiation Pattern at 4160MHz



3D Radiation Pattern at 5570MHz



HOUSING CONFIGURATIONS

