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	AICF005
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	-40ºC to +85ºC	
Storage Temperature	-40ºC to +85ºC	
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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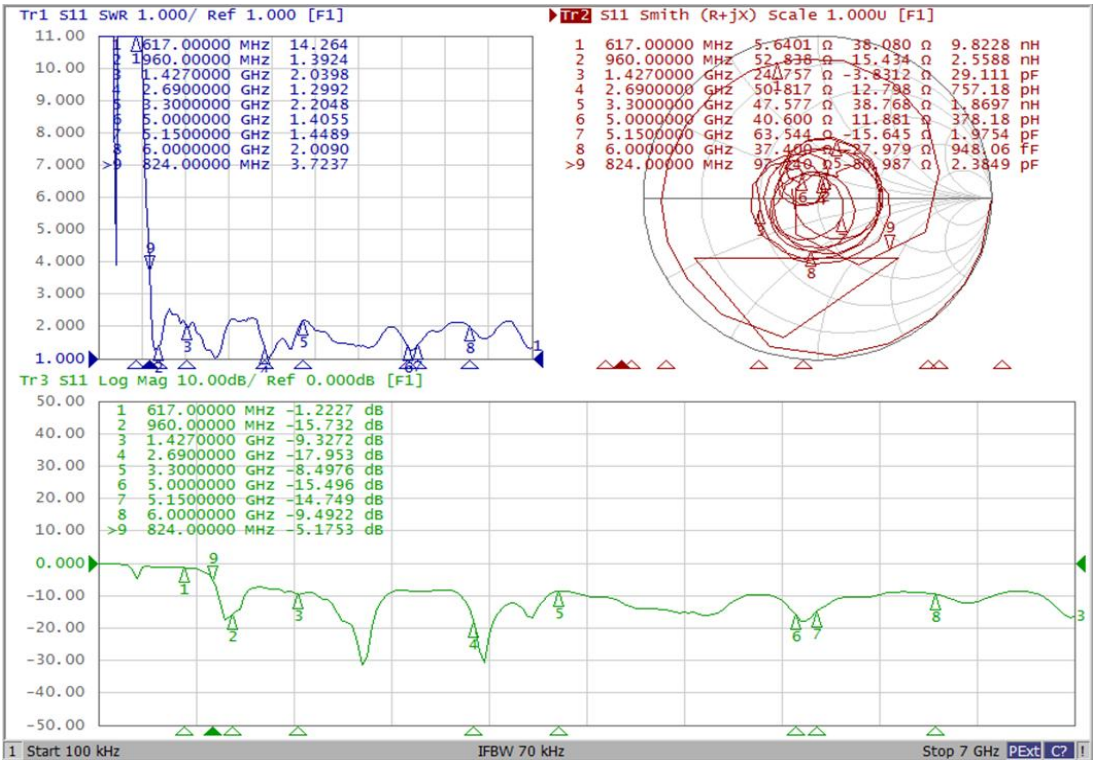
ELECTRICAL PERFORMANCE

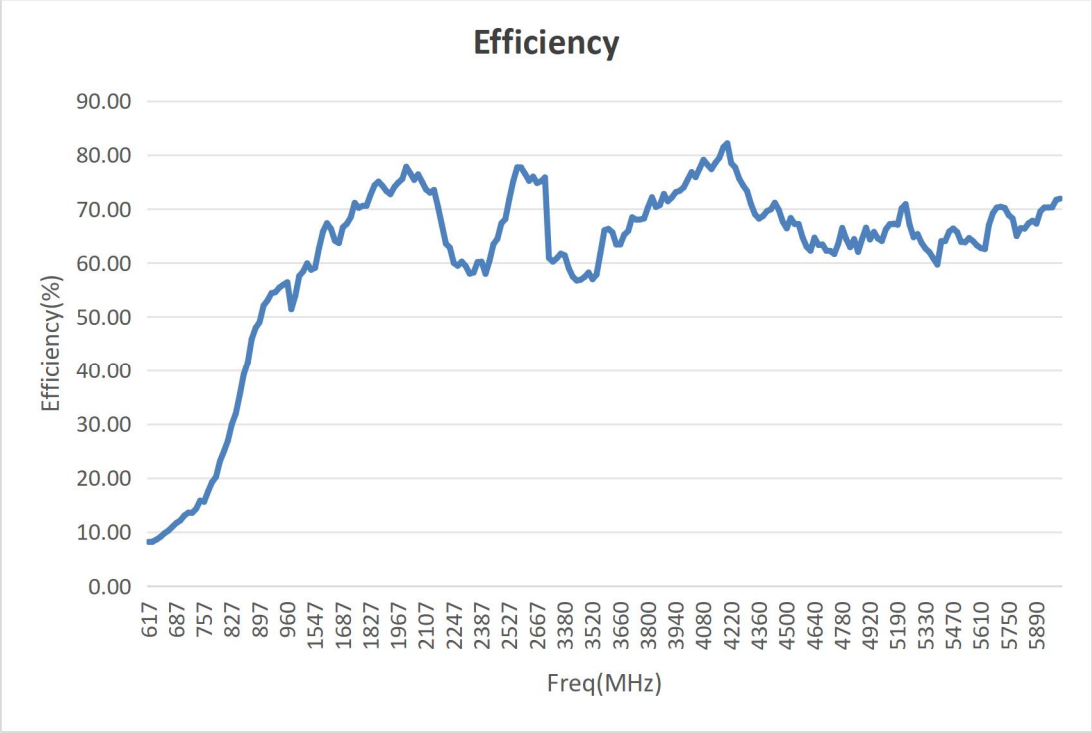
- Note

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（%）



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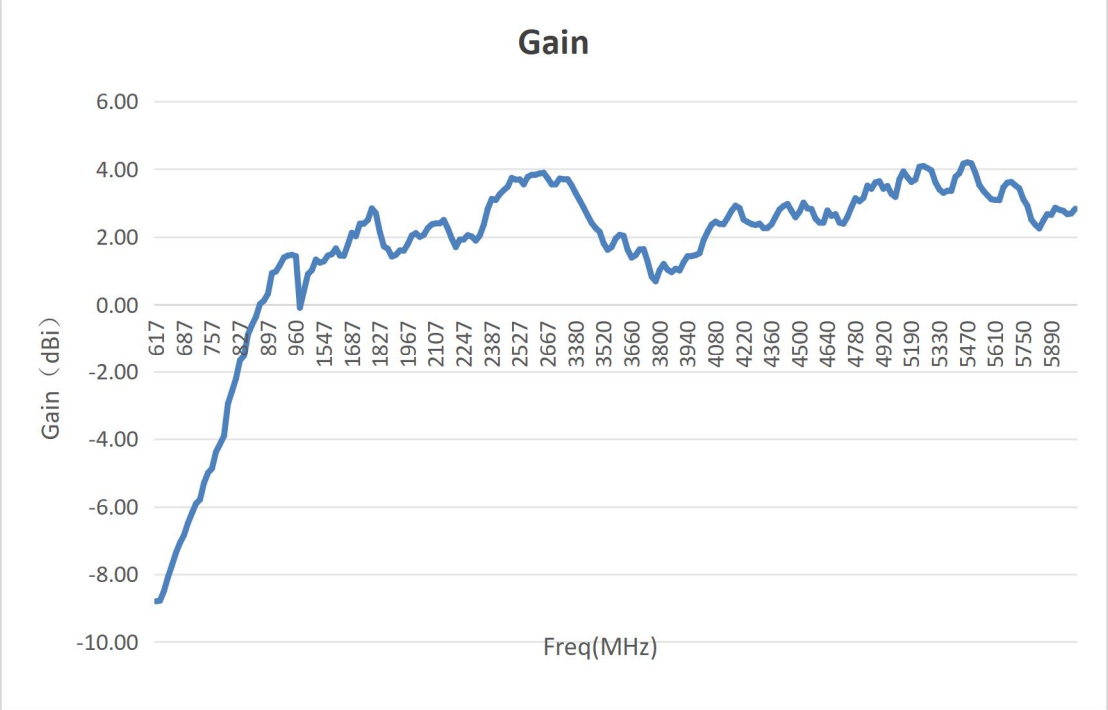
Peak Gain（dBi）



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

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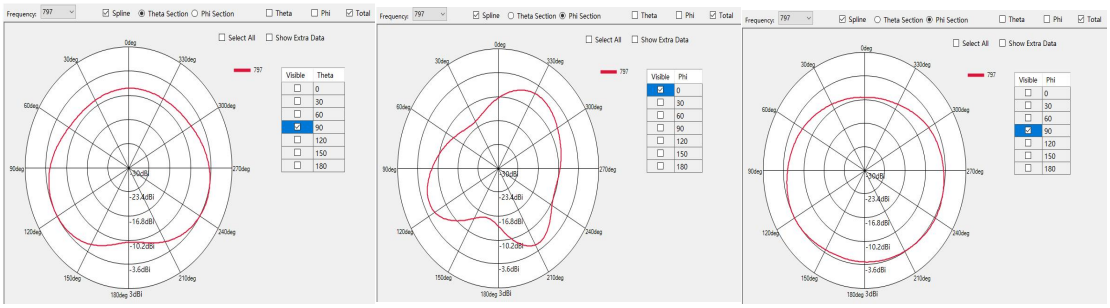
847	-0.88	35.42	2690	3.55	75.84	4820	3.15	62.93
857	-0.60	39.20	3300	3.72	60.92	4840	3.51	64.41
867	-0.36	41.45	3320	3.70	60.24	4860	3.42	62.05
877	0.02	45.86	3340	3.70	60.88	4880	3.61	64.38
887	0.12	47.96	3360	3.52	61.71	4900	3.64	66.53
897	0.32	49.04	3380	3.29	61.40	4920	3.42	64.35
907	0.93	52.10	3400	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

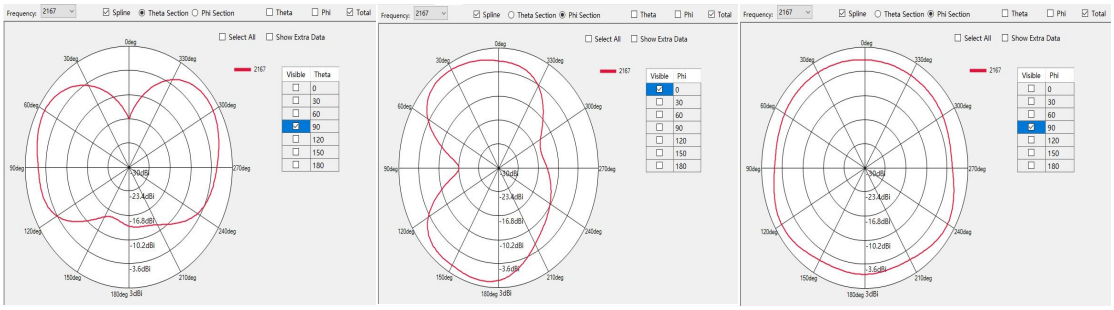
2067	2.26	76.41	4180	2.92	81.44	5850	2.48	67.34
2087	2.37	75.02	4200	2.85	82.17	5870	2.67	67.82
2107	2.40	73.60	4220	2.51	78.48	5890	2.65	67.29
2127	2.40	73.02	4240	2.44	77.69	5910	2.86	69.57
2147	2.50	73.53	4260	2.38	75.63	5930	2.80	70.27
2167	2.25	70.43	4280	2.35	74.35	5950	2.77	70.29
2187	1.95	67.00	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.)

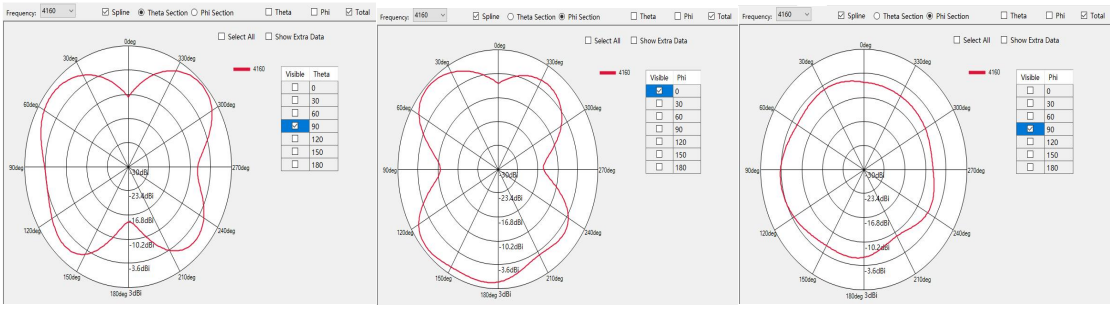
2D Radiation Pattern at 797MHz



2D Radiation Pattern at 2167MHz



2D Radiation Pattern at 4160MHz



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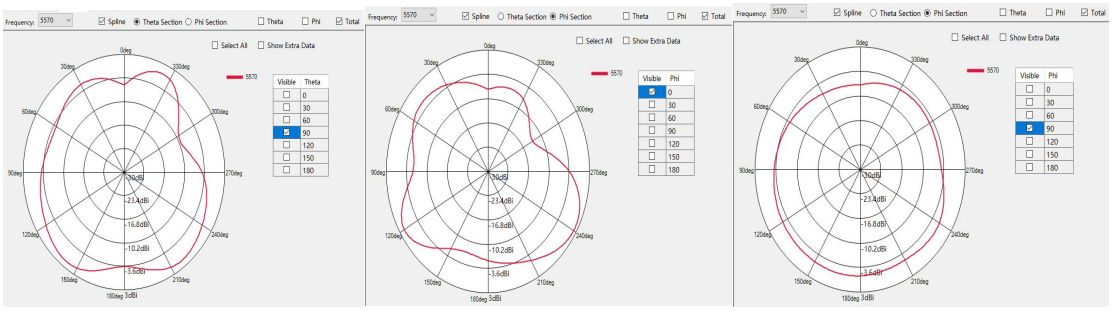
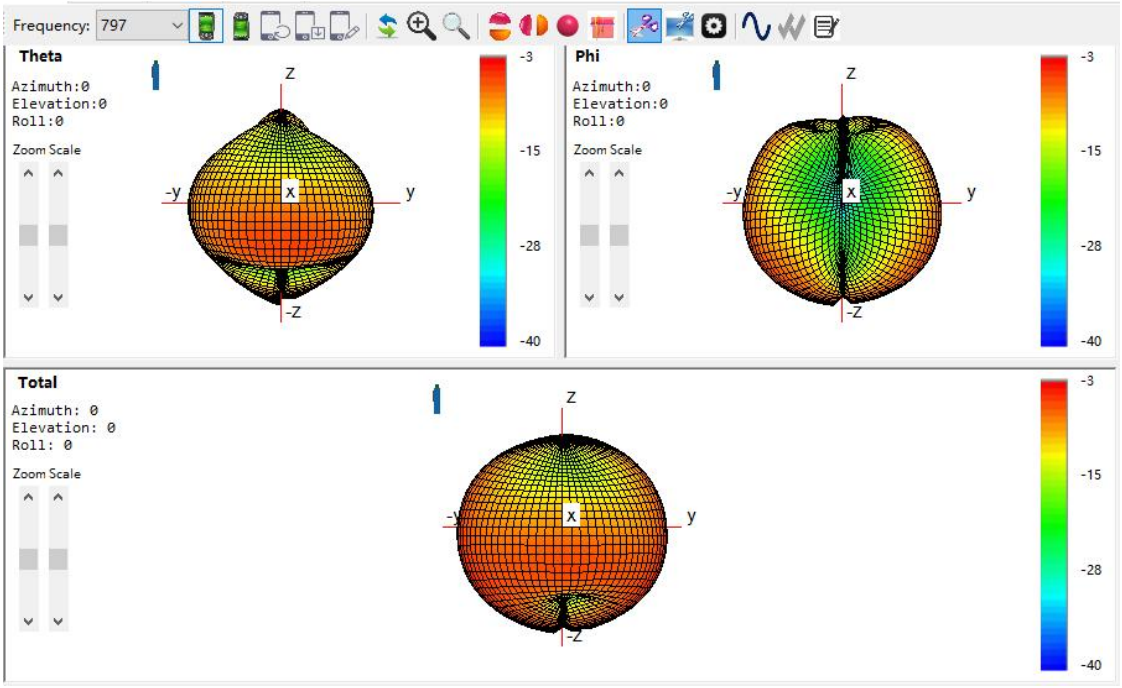
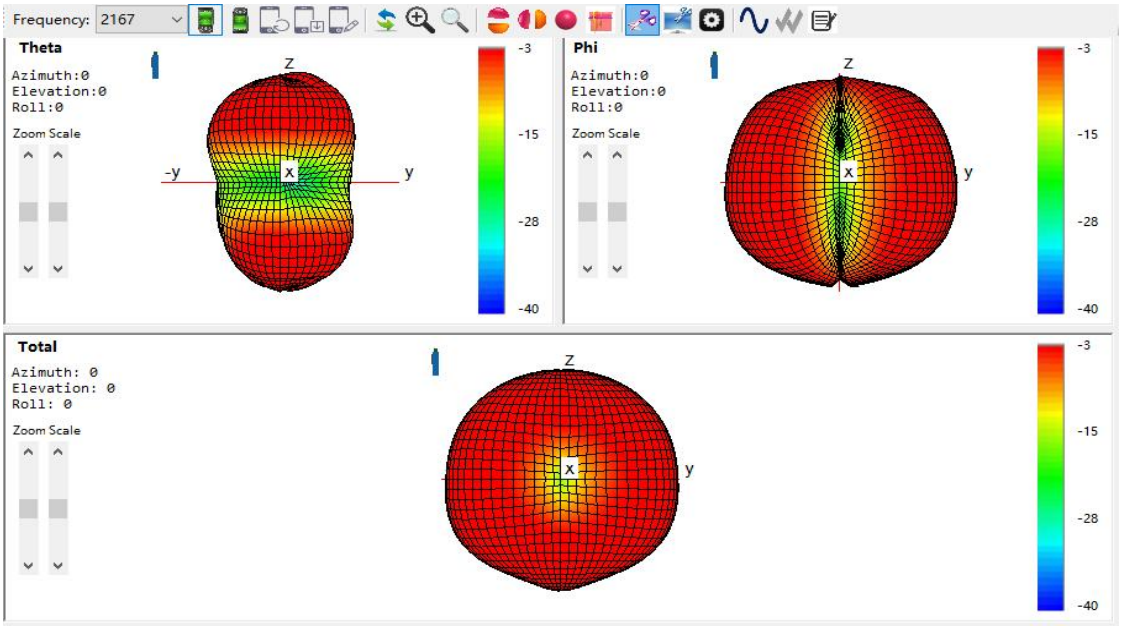
2D Radiation Pattern at 5570MHz



3D Radiation Pattern at 797MHz



3D Radiation Pattern at 2167MHz



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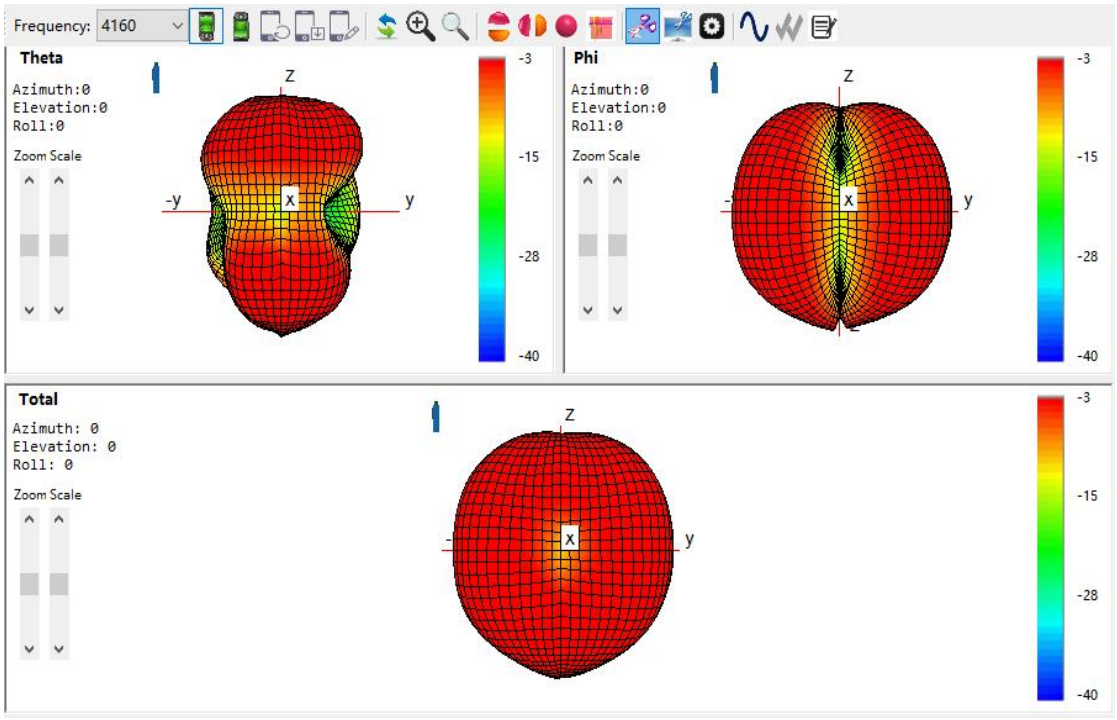
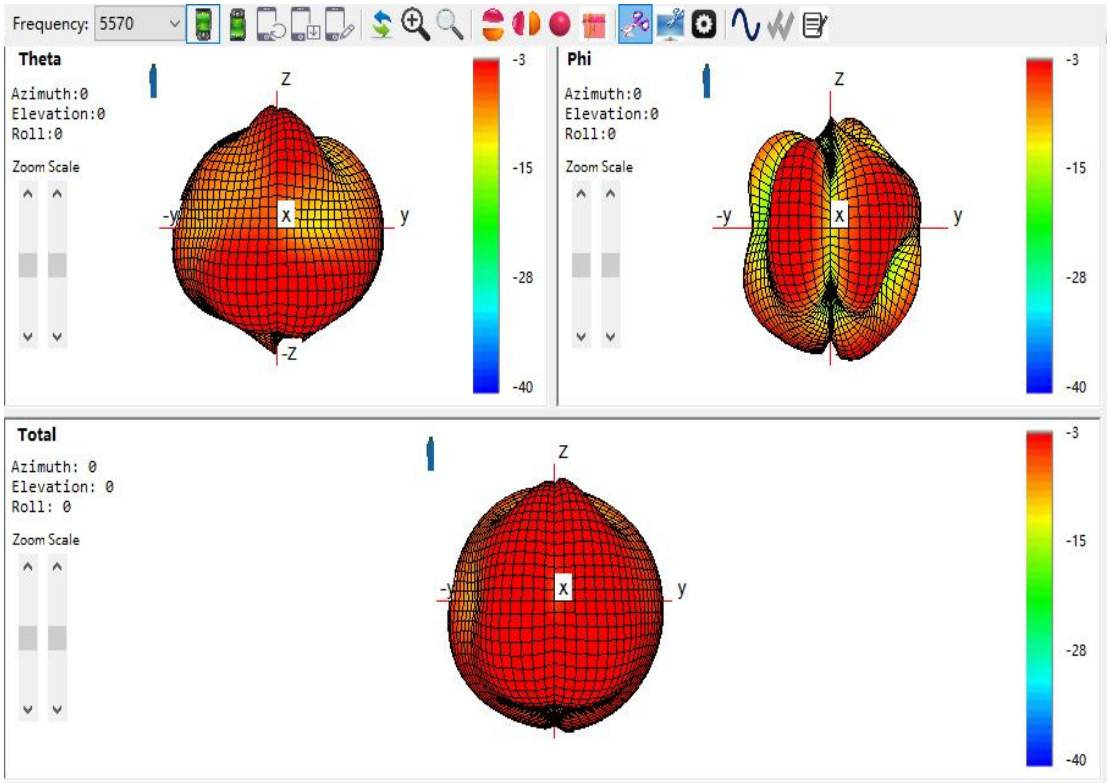
3D Radiation Pattern at 4160MHz



3D Radiation Pattern at 5570MHz



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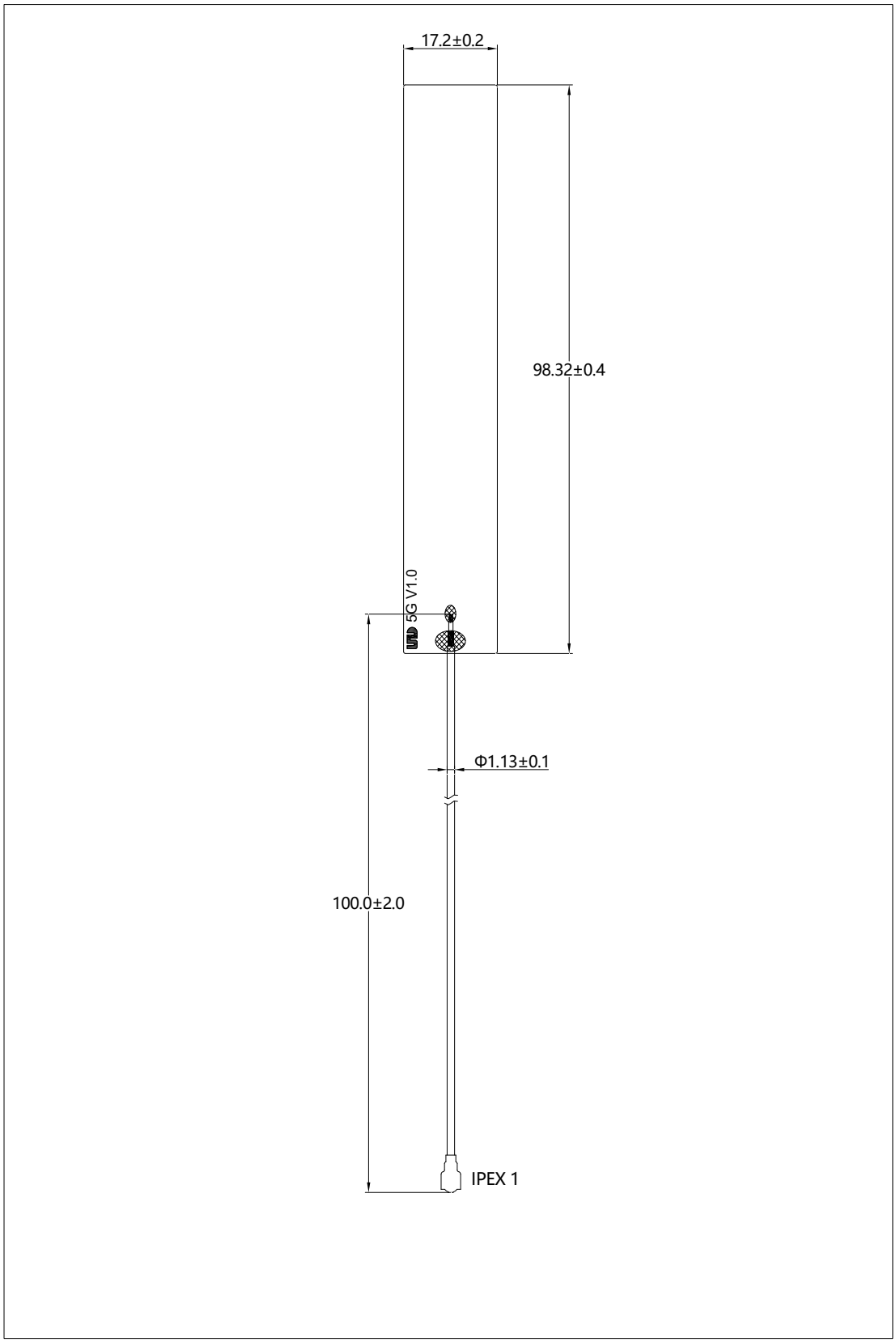
HOUSING CONFIGURATIONS



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