



ANTENNA PASSIVE TEST REPORT

Application No.	SEWM2310000413OA
Applicant	METTLER TOLEDO
Manufacturer	ASIAN CREATION COMMUNICATION CO., LTD
Product Name	N/A
Model No	IND400
Standards	IEEE Std 149 TM -2021
Date Initial Sample(s) Received	2023.10.09
Testing Start Date	2023.10.09
Testing Finish Date	2023.10.09
Report Issue Date	2023.10.24

Comments/ Conclusion: The configuration tested complied to the certification requirements specified in this report.

Rogan Zhao

Prepared by

Leno Shi

Reviewed By

Caleb Gao

Approved by

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



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REVISION HISTORY

Report No.	Version	Date	Memo
SEWM2310000413OA02	00	2023.10.16	The final version of report
SEWM2310000413OA02	01	2023.10.24	Update Antenna Model / Supported band / Summary Peak Gain / Photo of EUT

This report supersedes our previous report SEWM2310000413OA01 Version 00, issued on 2023/10/16, Which is hereby deemed null and void



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Report No.:SEWM2310000413OA02

Rev.01

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1. General Information

1.1 Details of Client

Applicant	METTLER TOLEDO
Address:	No. 111, Taihu West Road, Xinbei District, Changzhou City, Jiangsu Province
Manufacturer	ASIAN CREATION COMMUNICATION CO., LTD
Address:	No12, Xingye 5 Road, Yundonghai, Sanshui, Foshan, Guangdong, China

1.2 Test Location

Company	SGS-CSTC Standards Technical Service (Suzhou) Co., Ltd.
Address	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
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1.3 General Description of EUT

Device Description:	N/A
Device Manufacturer:	N/A
Device Model:	IND400
Hardware Version:	N/A
Software Version:	N/A
Antenna Model:	AC-Q58-50ZDB
Supported band:	AC-Q58-50ZDB : 2400MHz-2483MHz, 5150MHz-5850MHz

1.4 Test Procedure

Testing is performed according to the IEEE Std 149™ -2021

1.5 Laboratory Environment

Temperature	Min. =19°C, Max. = 25°C	
Relative humidity	Min. =40%, Max. =72%	
Shield effect	0.7-6GHz	> 100dB
Ground resistance	<0.5Ω	



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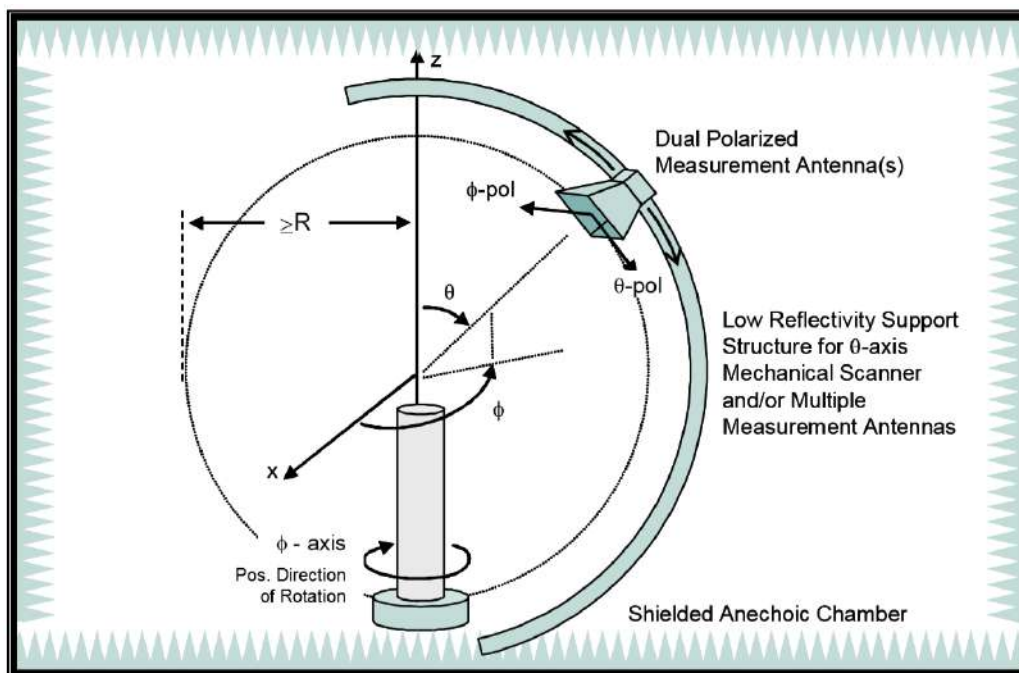
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2. OTA Measurements System Configuration

2.1 Test Configuration

Conical-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 1.5m

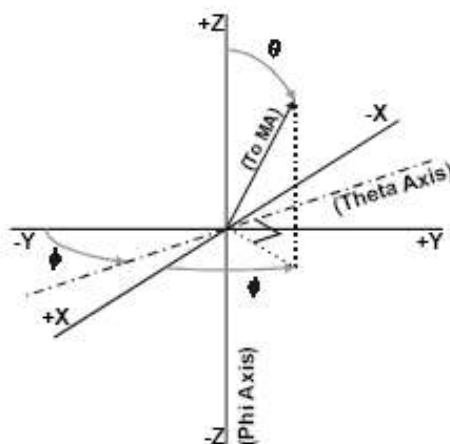


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2.2 Test Measurement

Spherical coordinate system



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3. Test Equipment List

Type of Equipment	Model Number	Manufacture	Calibration Date	Valid Period
Network Analyzer	ZNB8 S/N 103535	R&S	2023-02-06	2024-02-05
Switch Control System	OSP 130 S/N 100358	R&S	N/A	N/A
MAPS Controller	2090 S/N 114576	ETS-Lindgren L.P.	N/A	N/A
Test Software	EMQuest™ REV 1.14 Build 31654	ETS-Lindgren L.P	N/A	N/A
Full Anechoic Wireless Test chamber	ETS-Lindgren AMS- 8923 CT000596-1149	ETS-Lindgren L.P	N/A	N/A



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4. Measurement Uncertainty

Item	617- 698MHz (dB)	699- 798MHz (dB)	814- 894MHz (dB)	1695- 1780MHz (dB)	1850- 2020MHz (dB)	2300- 2800MHz (dB)	3300- 3800MHz (dB)	5150- 5925MHz (dB)
Gain	0.75	0.9	0.74	0.84	0.83	0.9	0.84	0.86
Efficiency	0.75	0.9	0.74	0.84	0.83	0.9	0.84	0.86
Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2								



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5. Summary Peak Gain

AC-Q58-50ZDB: Peak Gain:

1.3dBi Typical (2400-2483MHz)
4.8dBi Typical (5150-5250MHz)
5.0dBi Typical (5250-5350MHz)
5.4dBi Typical (5470-5725MHz)
5.1dBi Typical (5725-5850MHz)



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6. Test Results

6.1 5G Antenna1

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-3.83	41.41	0.34
2410	-4.01	39.71	0.24
2420	-4.07	39.14	0.25
2430	-4.27	37.44	0.23
2440	-4.30	37.17	0.19
2450	-4.31	37.10	0.13
2460	-4.29	37.26	0.06
2470	-4.35	36.71	0.01
2480	-4.48	35.65	0.06
2490	-4.51	35.37	0.03
2500	-4.61	34.63	-0.06
5150	-2.34	58.32	3.68
5160	-2.29	59.03	3.74
5170	-2.32	58.64	3.66
5180	-2.31	58.77	3.50
5190	-2.41	57.46	3.30
5200	-2.47	56.63	3.26
5210	-2.43	57.17	3.20
5220	-2.57	55.33	3.01
5230	-2.44	56.99	3.18
5240	-2.45	56.95	3.30
5250	-2.40	57.50	3.44
5260	-2.35	58.15	3.63
5270	-2.40	57.56	3.60
5280	-2.38	57.79	3.50
5290	-2.58	55.15	3.18
5300	-2.53	55.89	3.10



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Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5310	-2.62	54.75	3.04
5320	-2.57	55.39	3.13
5330	-2.62	54.72	3.16
5340	-2.54	55.68	3.24
5350	-2.52	55.94	3.30
5360	-2.53	55.82	3.33
5370	-2.48	56.48	3.30
5380	-2.60	55.00	3.24
5390	-2.54	55.71	3.50
5400	-2.49	56.32	3.61
5410	-2.49	56.31	3.59
5420	-2.47	56.67	3.48
5430	-2.46	56.79	3.48
5440	-2.38	57.85	3.64
5450	-2.39	57.71	3.73
5460	-2.44	57.04	3.72
5470	-2.36	58.13	3.74
5480	-2.48	56.56	3.68
5490	-2.42	57.24	3.71
5500	-2.45	56.90	3.74
5510	-2.34	58.34	3.69
5520	-2.43	57.16	3.74
5530	-2.33	58.47	3.62
5540	-2.39	57.67	3.64
5550	-2.36	58.10	3.85
5560	-2.32	58.58	3.98
5570	-2.36	58.06	3.90
5580	-2.29	58.97	3.89



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Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5590	-2.44	56.97	3.76
5600	-2.31	58.68	3.82
5610	-2.43	57.21	3.80
5620	-2.44	56.96	3.57
5630	-2.60	54.91	3.64
5640	-2.51	56.14	3.68
5650	-2.60	54.90	3.61
5660	-2.58	55.20	3.62
5670	-2.71	53.56	3.57
5680	-2.72	53.41	3.57
5690	-2.87	51.70	3.44
5700	-3.03	49.82	3.22
5710	-3.12	48.76	3.09
5720	-3.29	46.93	2.92
5730	-3.28	46.94	2.96
5740	-3.39	45.81	3.06
5750	-3.44	45.33	3.01
5760	-3.57	43.97	2.95
5770	-3.49	44.76	3.09
5780	-3.66	43.02	3.04
5790	-3.86	41.13	2.89
5800	-4.02	39.65	2.52
5810	-4.10	38.89	2.44
5820	-4.12	38.70	2.42
5830	-4.21	37.96	2.19
5840	-4.24	37.70	2.29
5850	-4.31	37.10	2.33



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6.2 5G Antenna2

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-4.51	35.40	0.46
2410	-4.71	33.84	0.31
2420	-4.76	33.41	0.32
2430	-4.96	31.94	0.26
2440	-4.99	31.69	0.25
2450	-5.01	31.53	0.12
2460	-4.99	31.72	0.04
2470	-5.04	31.34	-0.04
2480	-5.16	30.50	-0.06
2490	-5.17	30.42	-0.07
2500	-5.26	29.77	-0.19
5150	-2.99	50.24	2.47
5160	-3.00	50.14	2.52
5170	-2.99	50.28	2.55
5180	-3.04	49.71	2.57
5190	-3.11	48.90	2.33
5200	-3.16	48.25	2.32
5210	-3.14	48.57	2.26
5220	-3.27	47.08	1.98
5230	-3.13	48.66	2.23
5240	-3.15	48.36	2.05
5250	-3.13	48.66	2.17
5260	-3.10	49.01	2.17
5270	-3.11	48.91	2.23
5280	-3.11	48.84	2.15
5290	-3.27	47.08	1.95
5300	-3.20	47.87	1.89



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Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5310	-3.25	47.31	1.86
5320	-3.23	47.49	1.88
5330	-3.24	47.37	1.90
5340	-3.21	47.80	2.03
5350	-3.15	48.38	2.09
5360	-3.16	48.33	2.09
5370	-3.12	48.77	2.10
5380	-3.20	47.91	2.01
5390	-3.15	48.42	2.12
5400	-3.09	49.06	2.17
5410	-3.08	49.26	2.33
5420	-3.05	49.57	2.28
5430	-3.05	49.49	2.27
5440	-2.96	50.62	2.50
5450	-2.97	50.47	2.58
5460	-3.00	50.13	2.69
5470	-2.91	51.17	2.68
5480	-3.03	49.77	2.69
5490	-3.00	50.11	2.91
5500	-3.05	49.56	2.93
5510	-2.95	50.68	3.09
5520	-3.04	49.63	2.96
5530	-2.96	50.53	3.03
5540	-3.02	49.88	3.08
5550	-3.01	50.06	3.24
5560	-2.97	50.47	3.30
5570	-3.02	49.94	3.25
5580	-2.94	50.82	3.36



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Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5590	-3.15	48.44	3.34
5600	-3.04	49.63	3.38
5610	-3.18	48.12	3.41
5620	-3.23	47.58	3.37
5630	-3.38	45.88	3.34
5640	-3.31	46.65	3.26
5650	-3.36	46.16	3.33
5660	-3.37	46.01	3.27
5670	-3.49	44.74	3.22
5680	-3.55	44.12	3.14
5690	-3.70	42.63	3.05
5700	-3.88	40.94	2.93
5710	-3.97	40.09	2.93
5720	-4.12	38.71	2.93
5730	-4.11	38.84	2.86
5740	-4.21	37.95	2.76
5750	-4.26	37.49	2.65
5760	-4.37	36.59	2.61
5770	-4.28	37.29	2.61
5780	-4.45	35.86	2.47
5790	-4.66	34.22	2.35
5800	-4.77	33.34	2.24
5810	-4.85	32.70	2.14
5820	-4.83	32.89	2.12
5830	-4.88	32.48	1.97
5840	-4.92	32.24	2.02
5850	-4.91	32.27	2.05



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6.3 5G Antenna3

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-3.96	40.19	1.23
2410	-4.11	38.82	1.14
2420	-4.11	38.82	1.17
2430	-4.25	37.55	1.15
2440	-4.25	37.54	1.15
2450	-4.23	37.78	1.09
2460	-4.17	38.30	1.04
2470	-4.18	38.23	0.99
2480	-4.25	37.62	1.03
2490	-4.23	37.73	1.01
2500	-4.29	37.22	0.93
5150	-2.69	53.78	4.56
5160	-2.69	53.78	4.50
5170	-2.65	54.27	4.47
5180	-2.68	53.90	4.39
5190	-2.72	53.51	4.41
5200	-2.80	52.50	4.48
5210	-2.72	53.49	4.43
5220	-2.86	51.74	4.32
5230	-2.71	53.63	4.43
5240	-2.70	53.67	4.54
5250	-2.65	54.36	4.71
5260	-2.58	55.20	4.93
5270	-2.59	55.14	4.91
5280	-2.55	55.61	5.00
5290	-2.73	53.37	4.83
5300	-2.67	54.10	4.79



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Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5310	-2.76	53.01	4.69
5320	-2.72	53.41	4.63
5330	-2.74	53.21	4.57
5340	-2.70	53.76	4.71
5350	-2.64	54.46	4.81
5360	-2.63	54.56	4.67
5370	-2.56	55.50	4.77
5380	-2.64	54.41	4.74
5390	-2.61	54.78	4.93
5400	-2.56	55.49	5.01
5410	-2.55	55.53	5.08
5420	-2.56	55.52	5.02
5430	-2.57	55.35	5.01
5440	-2.46	56.76	5.21
5450	-2.48	56.51	5.23
5460	-2.52	55.92	5.20
5470	-2.47	56.68	5.11
5480	-2.62	54.72	5.10
5490	-2.61	54.89	5.29
5500	-2.67	54.06	5.24
5510	-2.57	55.36	5.35
5520	-2.67	54.14	5.18
5530	-2.57	55.28	5.25
5540	-2.62	54.69	5.30
5550	-2.61	54.86	5.31
5560	-2.57	55.39	5.34
5570	-2.60	54.92	5.27
5580	-2.55	55.55	5.27



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Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5590	-2.72	53.47	5.21
5600	-2.61	54.78	5.34
5610	-2.70	53.67	5.34
5620	-2.73	53.29	5.30
5630	-2.83	52.10	5.23
5640	-2.72	53.40	5.17
5650	-2.81	52.36	5.20
5660	-2.74	53.16	5.05
5670	-2.88	51.51	5.06
5680	-2.86	51.72	5.14
5690	-3.00	50.15	5.04
5700	-3.08	49.16	5.08
5710	-3.14	48.56	5.09
5720	-3.23	47.55	5.05
5730	-3.22	47.68	5.03
5740	-3.27	47.12	4.93
5750	-3.31	46.68	4.83
5760	-3.37	46.05	4.73
5770	-3.30	46.74	4.89
5780	-3.42	45.45	4.77
5790	-3.56	44.06	4.72
5800	-3.63	43.37	4.62
5810	-3.67	42.94	4.50
5820	-3.67	42.96	4.52
5830	-3.67	42.97	4.41
5840	-3.72	42.43	4.37
5850	-3.70	42.63	4.48



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6.4 5G Antenna4

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-3.16	48.30	1.07
2410	-3.29	46.89	0.61
2420	-3.34	46.37	0.38
2430	-3.49	44.82	0.53
2440	-3.51	44.52	0.72
2450	-3.51	44.56	0.65
2460	-3.42	45.54	0.56
2470	-3.42	45.47	0.50
2480	-3.55	44.12	0.41
2490	-3.57	43.98	0.63
2500	-3.61	43.59	0.69
5150	-5.25	29.89	0.76
5160	-5.12	30.73	0.73
5170	-5.15	30.58	0.68
5180	-5.03	31.40	0.59
5190	-5.13	30.70	0.67
5200	-5.03	31.40	0.66
5210	-4.98	31.76	0.77
5220	-5.01	31.56	0.71
5230	-4.87	32.58	0.97
5240	-4.79	33.15	1.11
5250	-4.66	34.17	1.41
5260	-4.55	35.04	1.64
5270	-4.49	35.55	1.64
5280	-4.46	35.85	1.67
5290	-4.56	35.00	1.61
5300	-4.46	35.79	1.66



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Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5310	-4.53	35.23	1.58
5320	-4.44	35.98	1.53
5330	-4.49	35.56	1.61
5340	-4.36	36.60	1.70
5350	-4.34	36.81	1.93
5360	-4.32	37.01	1.80
5370	-4.25	37.59	1.86
5380	-4.38	36.49	1.71
5390	-4.34	36.80	1.91
5400	-4.39	36.41	1.96
5410	-4.41	36.26	2.01
5420	-4.44	35.98	1.91
5430	-4.47	35.71	1.95
5440	-4.41	36.21	2.15
5450	-4.46	35.78	2.16
5460	-4.53	35.23	2.11
5470	-4.52	35.35	2.04
5480	-4.66	34.22	1.96
5490	-4.71	33.83	1.96
5500	-4.80	33.13	1.94
5510	-4.72	33.72	2.12
5520	-4.79	33.18	1.88
5530	-4.75	33.49	2.07
5540	-4.80	33.13	1.99
5550	-4.83	32.90	2.15
5560	-4.76	33.38	2.27
5570	-4.78	33.24	2.17
5580	-4.76	33.41	2.18



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Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5590	-4.81	33.06	2.11
5600	-4.74	33.57	2.32
5610	-4.69	33.97	2.36
5620	-4.78	33.25	2.37
5630	-4.78	33.29	2.35
5640	-4.67	34.08	2.36
5650	-4.66	34.22	2.47
5660	-4.56	34.99	2.42
5670	-4.64	34.39	2.39
5680	-4.51	35.42	2.41
5690	-4.60	34.64	2.45
5700	-4.59	34.76	2.40
5710	-4.61	34.62	2.50
5720	-4.63	34.41	2.49
5730	-4.60	34.65	2.53
5740	-4.58	34.85	2.49
5750	-4.55	35.08	2.50
5760	-4.58	34.86	2.62
5770	-4.48	35.66	2.71
5780	-4.41	36.20	2.65
5790	-4.54	35.18	2.45
5800	-4.64	34.35	2.40
5810	-4.71	33.83	2.31
5820	-4.73	33.67	2.09
5830	-4.88	32.50	1.89
5840	-4.89	32.43	2.12
5850	-4.99	31.68	1.99



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6.5 5G Antenna5

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-4.26	37.51	-0.33
2410	-4.40	36.30	-0.43
2420	-4.42	36.10	-0.42
2430	-4.59	34.78	-0.56
2440	-4.60	34.71	-0.57
2450	-4.59	34.77	-0.59
2460	-4.52	35.33	-0.55
2470	-4.55	35.09	-0.68
2480	-4.64	34.37	-0.75
2490	-4.66	34.22	-0.74
2500	-4.72	33.74	-0.79
5150	-3.18	48.06	2.02
5160	-3.23	47.56	1.78
5170	-3.16	48.31	1.68
5180	-3.24	47.38	1.56
5190	-3.26	47.20	1.58
5200	-3.30	46.76	1.69
5210	-3.27	47.05	1.71
5220	-3.35	46.24	1.62
5230	-3.23	47.59	1.81
5240	-3.23	47.48	1.79
5250	-3.19	47.99	1.69
5260	-3.17	48.16	1.86
5270	-3.14	48.53	1.97
5280	-3.15	48.42	2.01
5290	-3.24	47.44	1.77
5300	-3.23	47.55	1.74



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Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5310	-3.23	47.51	1.65
5320	-3.22	47.61	1.58
5330	-3.24	47.39	1.62
5340	-3.20	47.83	1.78
5350	-3.16	48.36	1.80
5360	-3.16	48.33	1.74
5370	-3.09	49.14	1.81
5380	-3.16	48.27	1.70
5390	-3.15	48.39	2.02
5400	-3.14	48.58	1.95
5410	-3.13	48.59	1.89
5420	-3.14	48.49	1.77
5430	-3.14	48.49	1.87
5440	-3.04	49.67	1.94
5450	-3.04	49.61	1.91
5460	-3.09	49.06	1.82
5470	-3.01	49.99	1.80
5480	-3.12	48.76	1.65
5490	-3.14	48.49	1.61
5500	-3.23	47.49	1.57
5510	-3.16	48.36	1.64
5520	-3.24	47.48	1.72
5530	-3.13	48.63	1.89
5540	-3.15	48.39	1.84
5550	-3.16	48.35	1.87
5560	-3.10	48.95	1.93
5570	-3.15	48.45	1.89
5580	-3.10	48.96	1.97



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Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5590	-3.29	46.84	1.80
5600	-3.21	47.80	1.74
5610	-3.30	46.77	1.61
5620	-3.31	46.65	1.71
5630	-3.40	45.70	1.71
5640	-3.25	47.36	1.79
5650	-3.31	46.71	1.78
5660	-3.23	47.57	2.27
5670	-3.38	45.94	1.61
5680	-3.38	45.90	1.57
5690	-3.53	44.38	1.55
5700	-3.61	43.57	1.46
5710	-3.67	42.96	1.59
5720	-3.71	42.55	1.58
5730	-3.68	42.85	1.58
5740	-3.69	42.74	1.55
5750	-3.73	42.36	1.51
5760	-3.77	41.95	1.58
5770	-3.71	42.55	1.65
5780	-3.81	41.60	1.73
5790	-3.94	40.36	1.62
5800	-3.99	39.90	1.69
5810	-4.00	39.82	1.84
5820	-3.98	40.00	1.86
5830	-3.92	40.54	1.92
5840	-3.99	39.89	1.96
5850	-3.90	40.75	2.12



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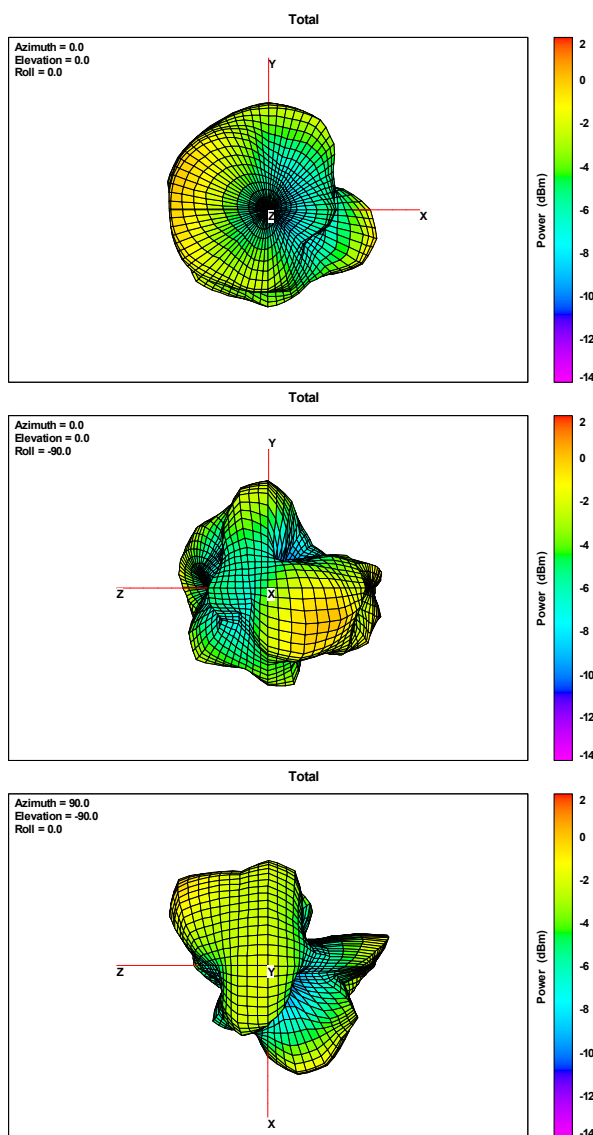
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7. 3-D Antenna Pattern

7.1 5G Antenna1

7.1.1 2400MHz



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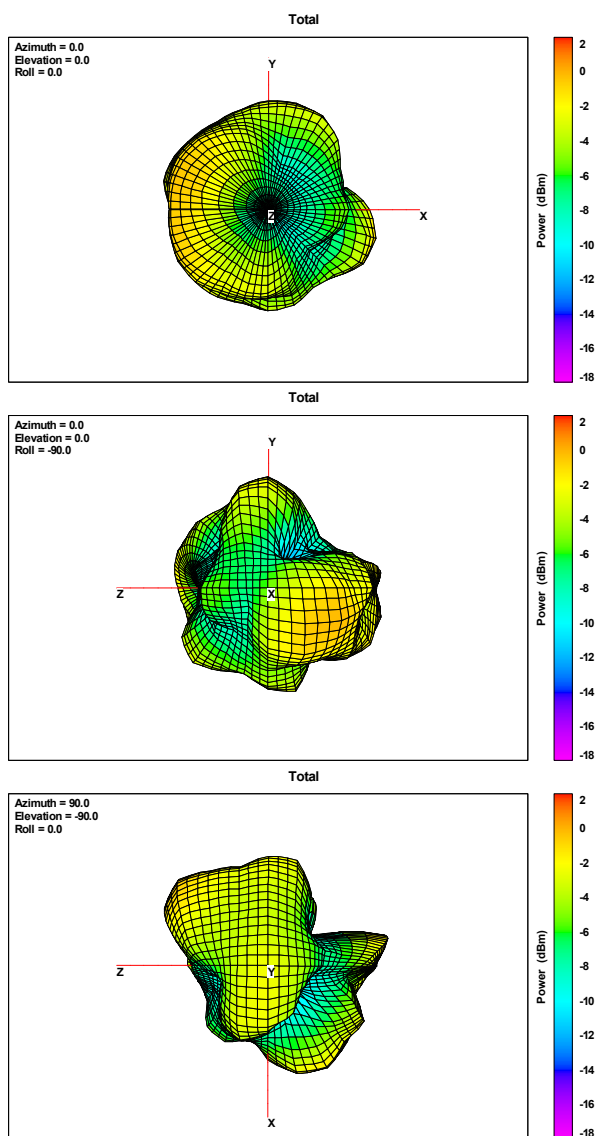
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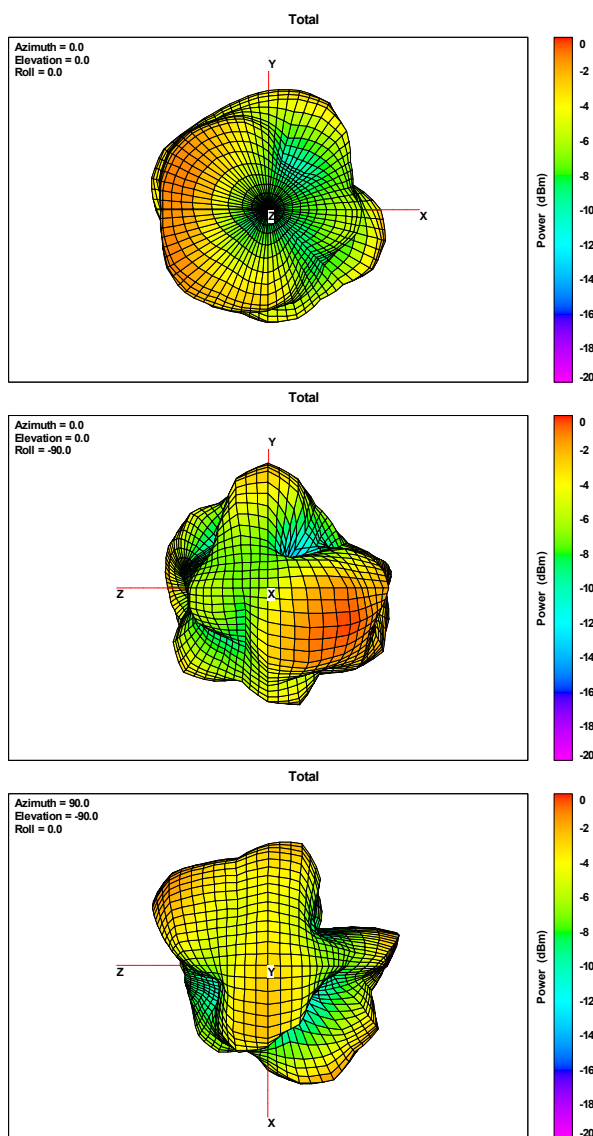
7.1.2 2450MHz



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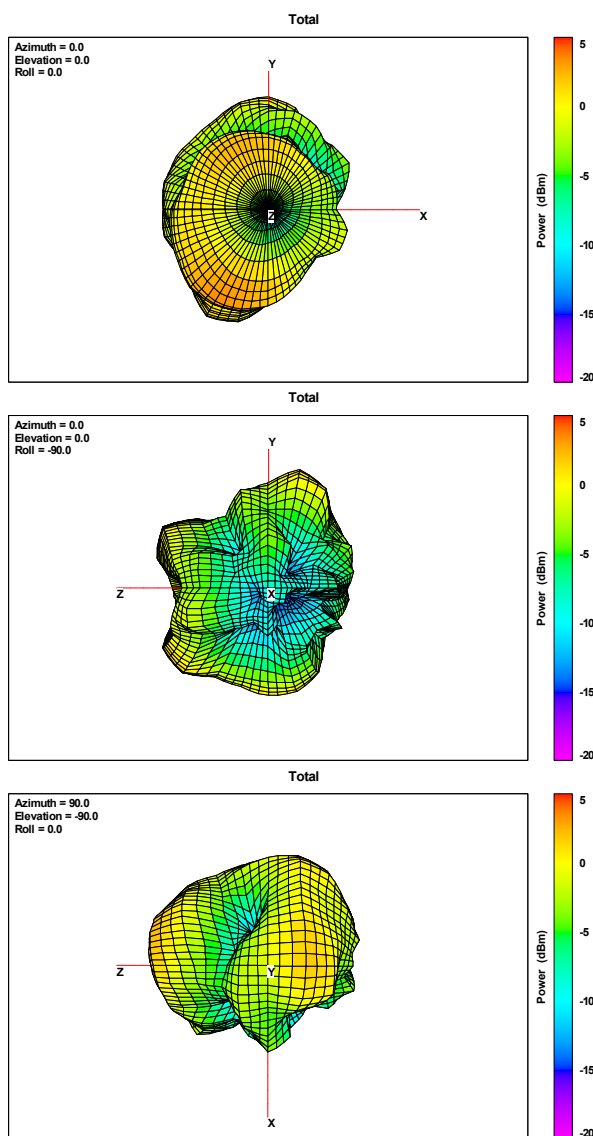
7.1.3 2500MHz



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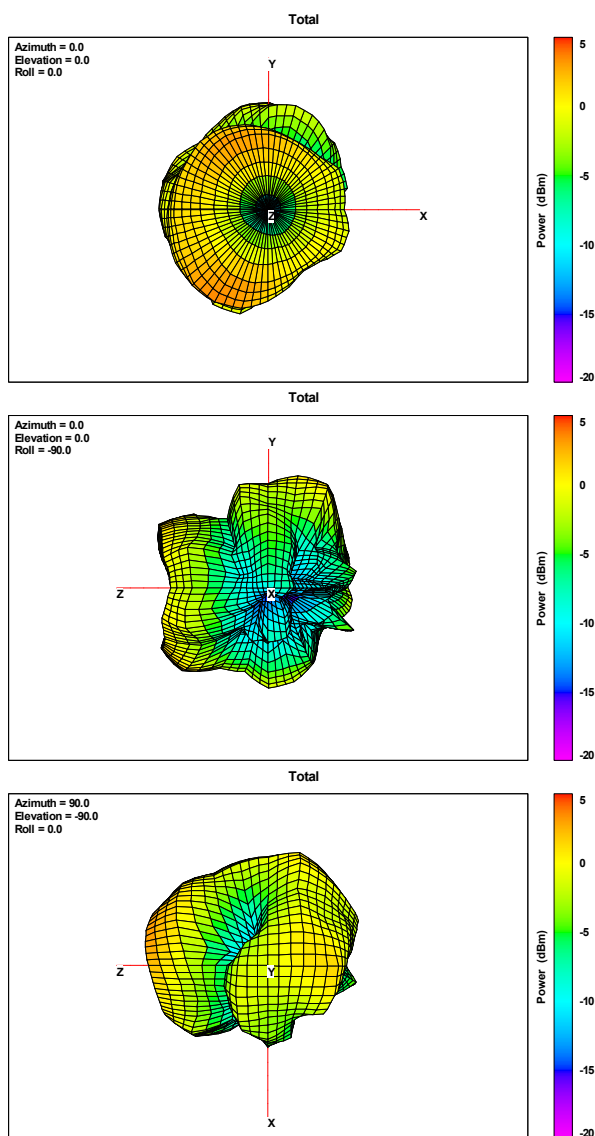
7.1.4 5150MHz



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7.1.5 5500MHz



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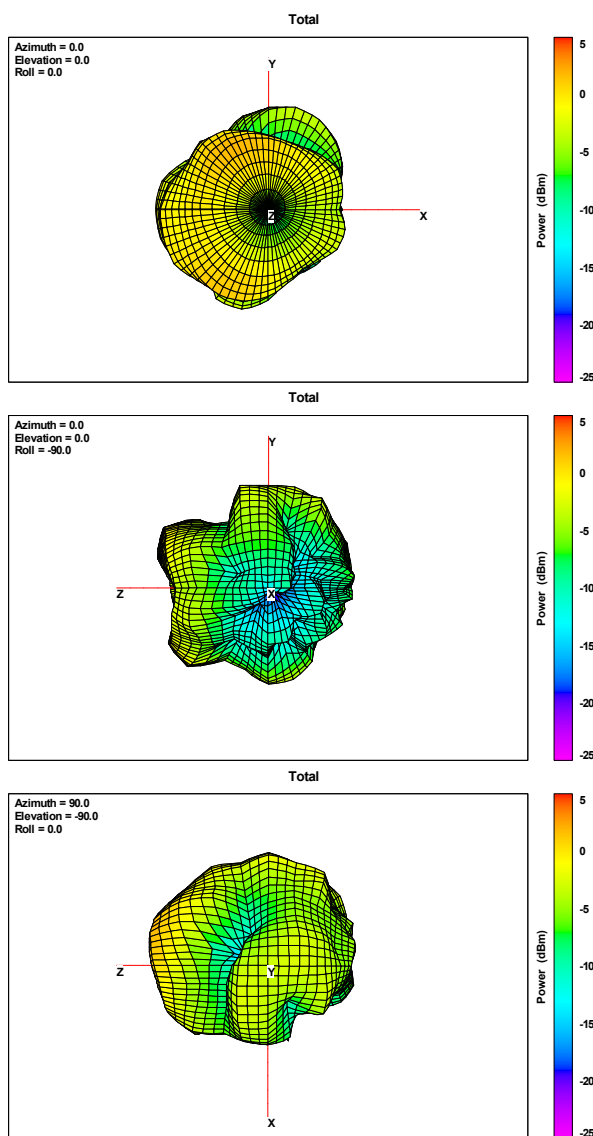
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7.1.6 5850MHz

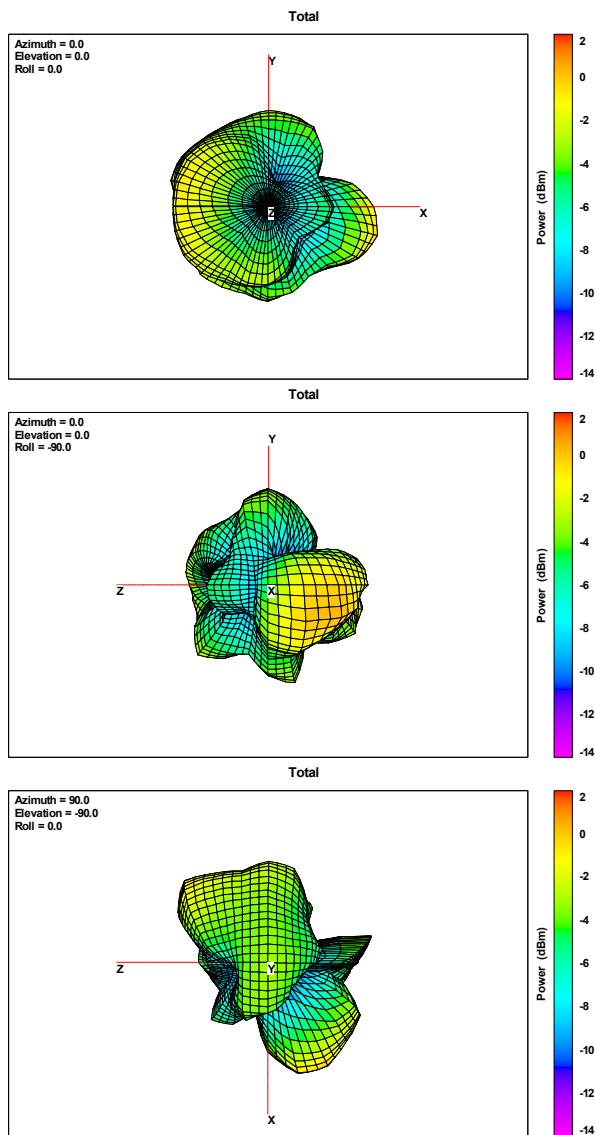


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7.2 5G Antenna2

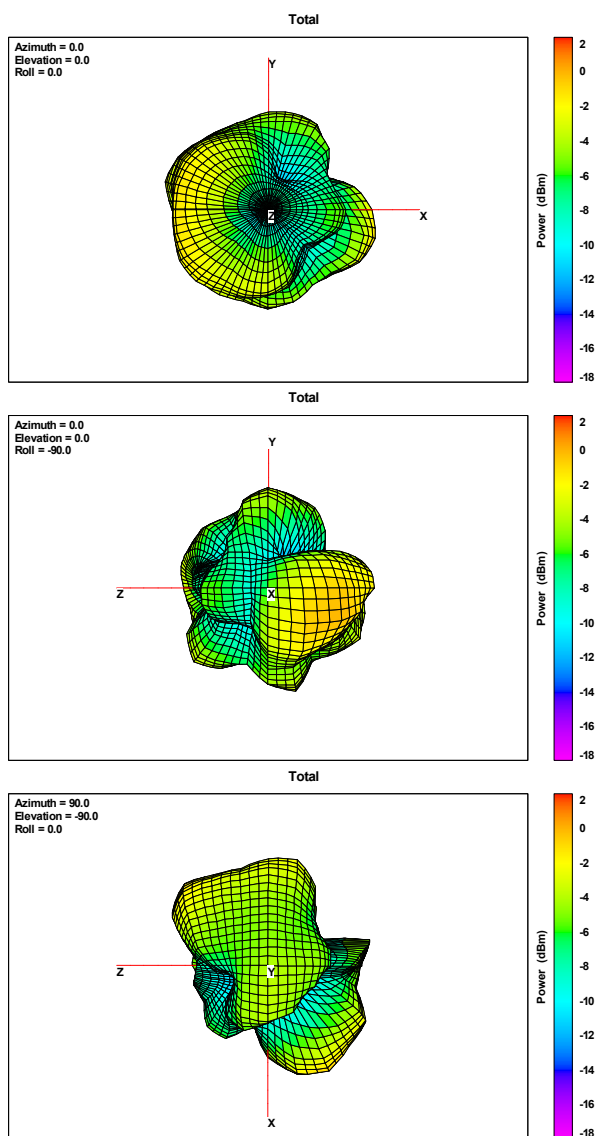
7.2.1 2400MHz



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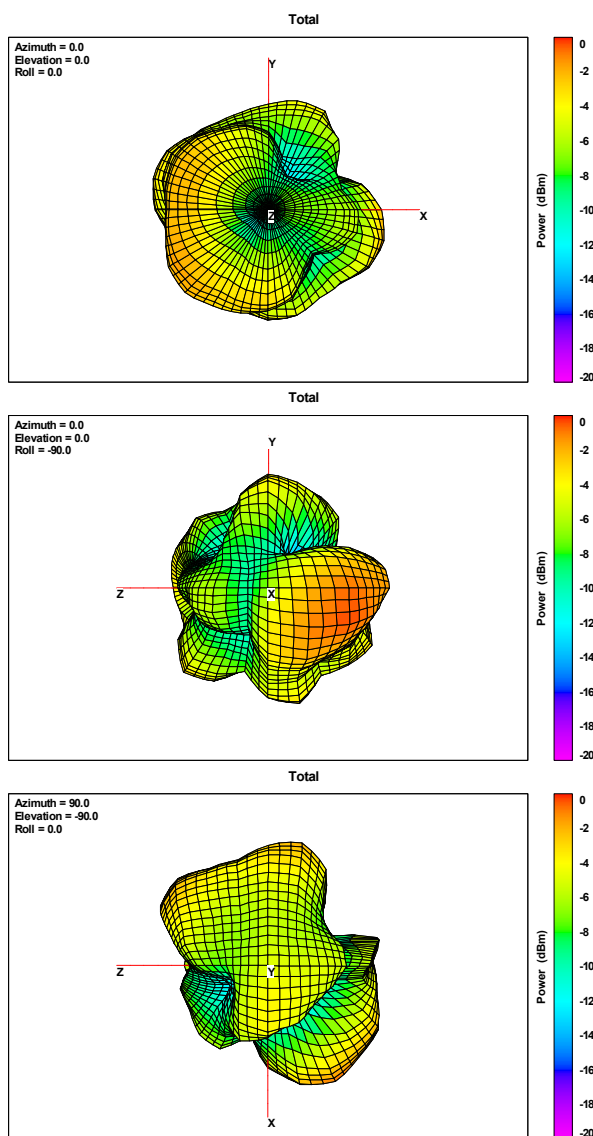
7.2.2 2450MHz



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7.2.3 2500MHz



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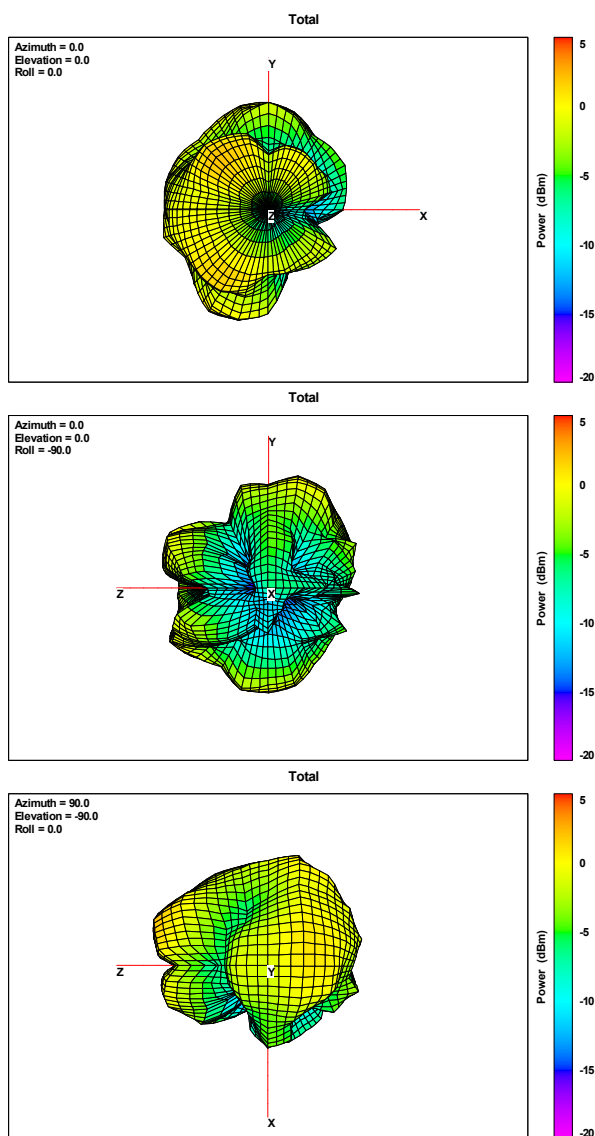
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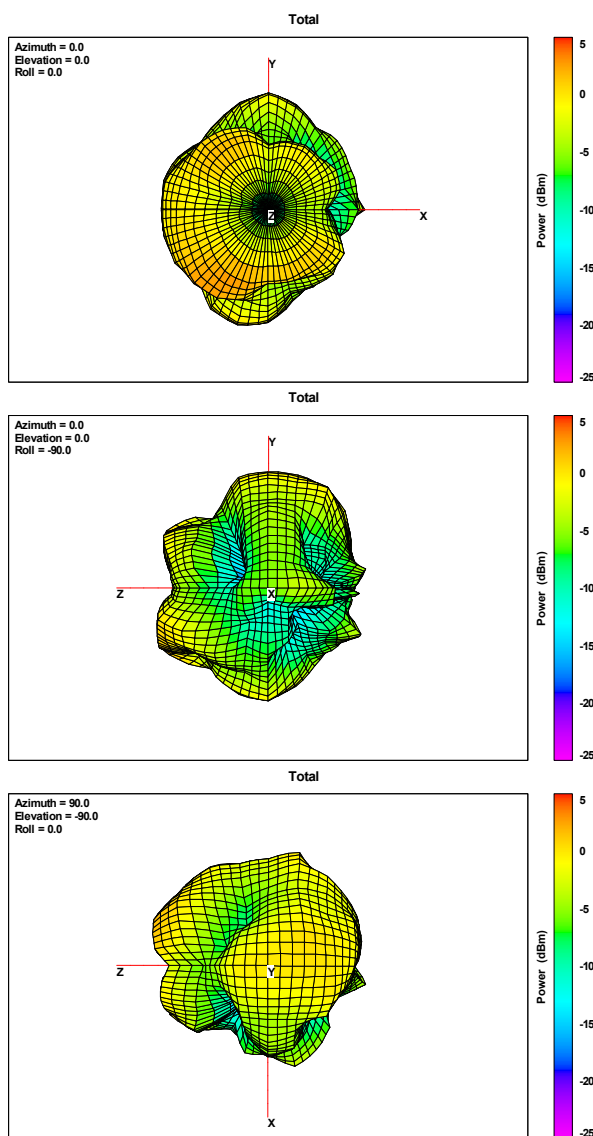
7.2.4 5150MHz



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7.2.5 5500MHz



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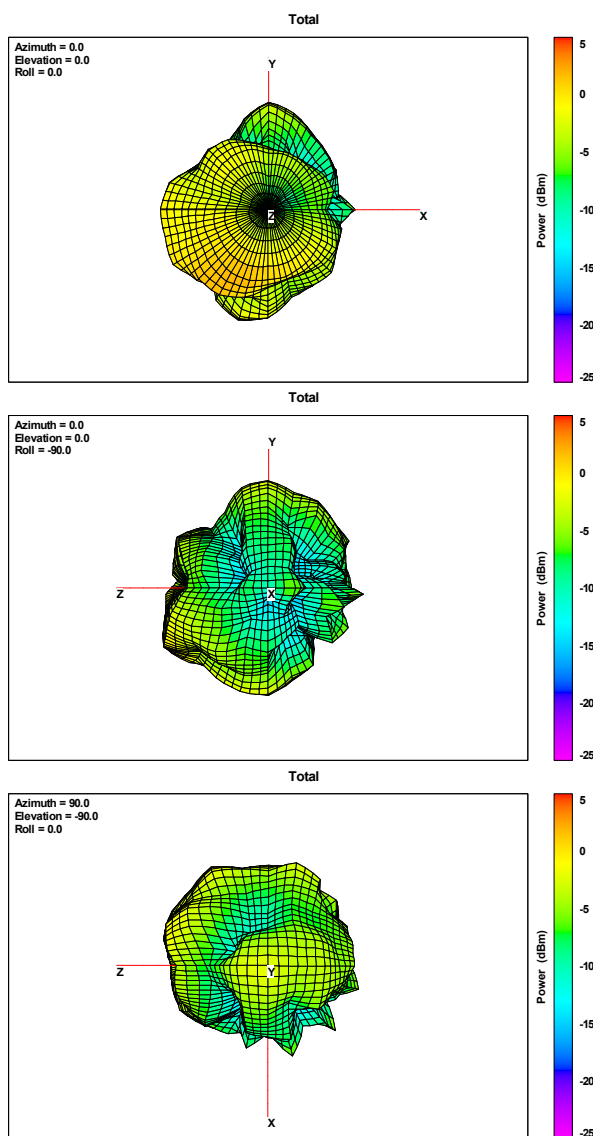
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7.2.6 5850MHz

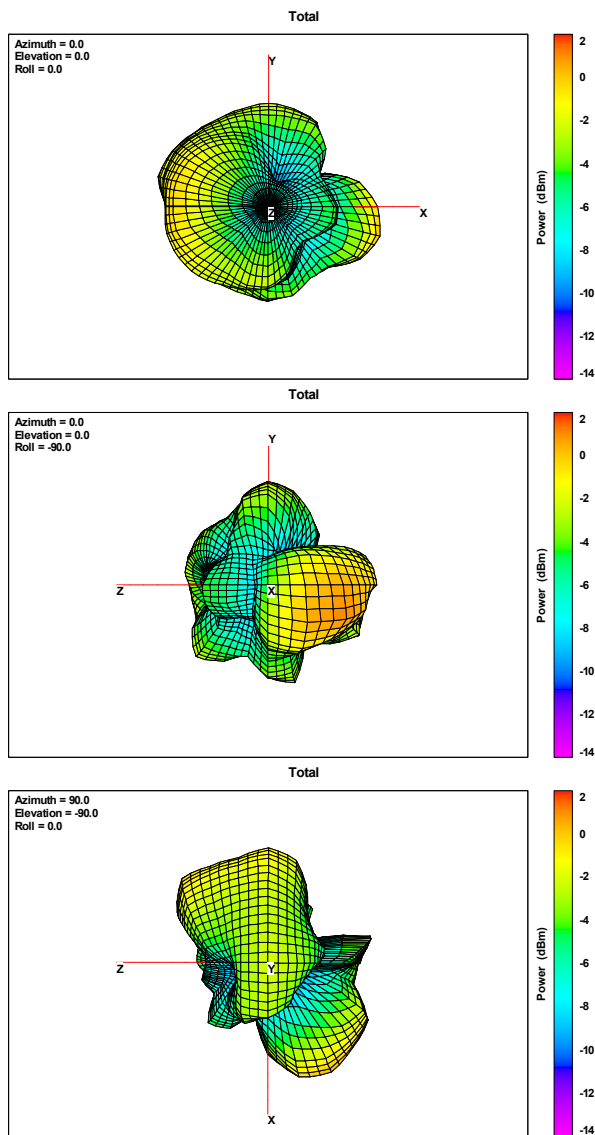


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7.3 5G Antenna3

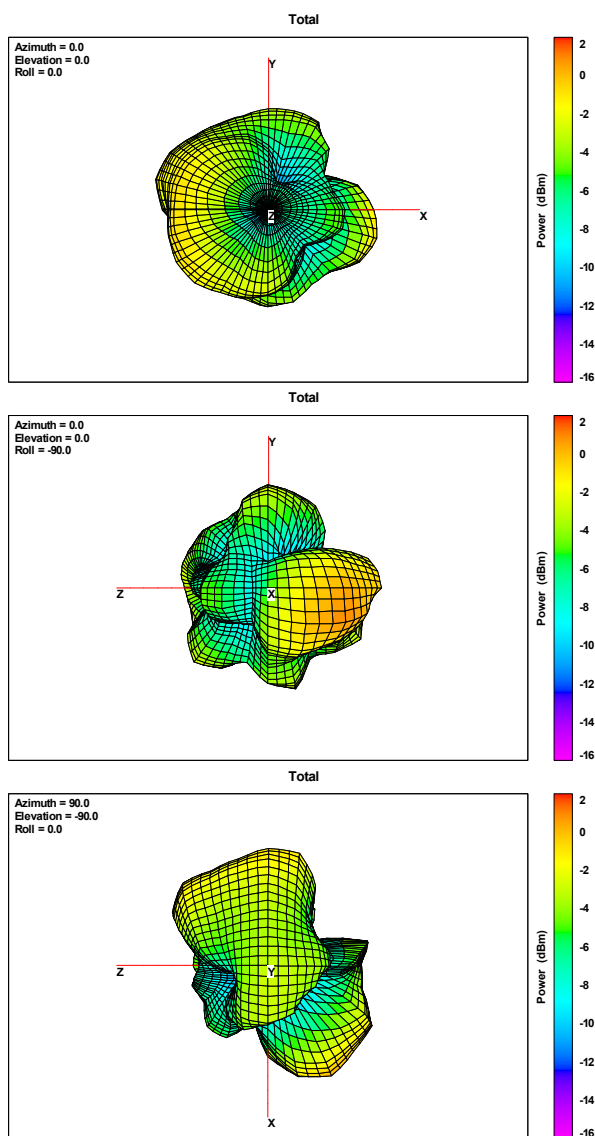
7.3.1 2400MHz



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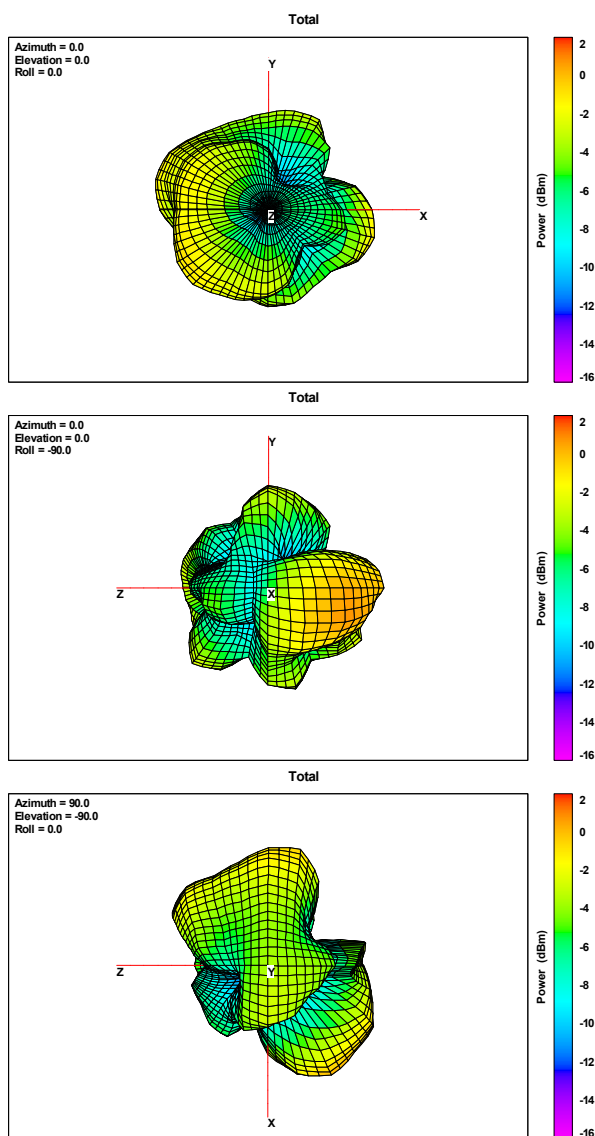
7.3.2 2450MHz



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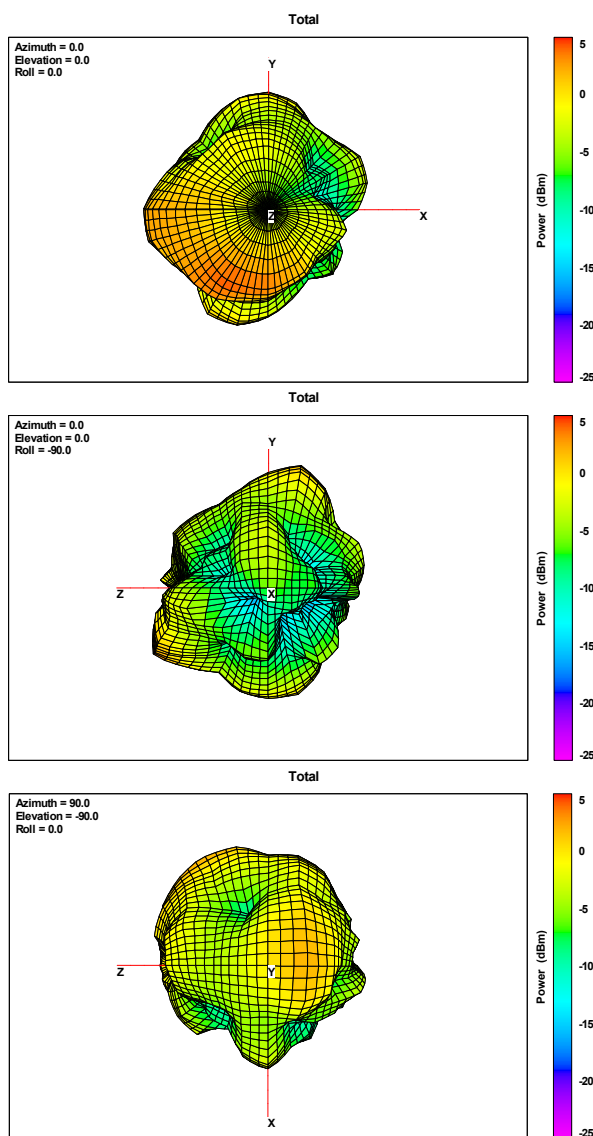
7.3.3 2500MHz



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7.3.4 5150MHz



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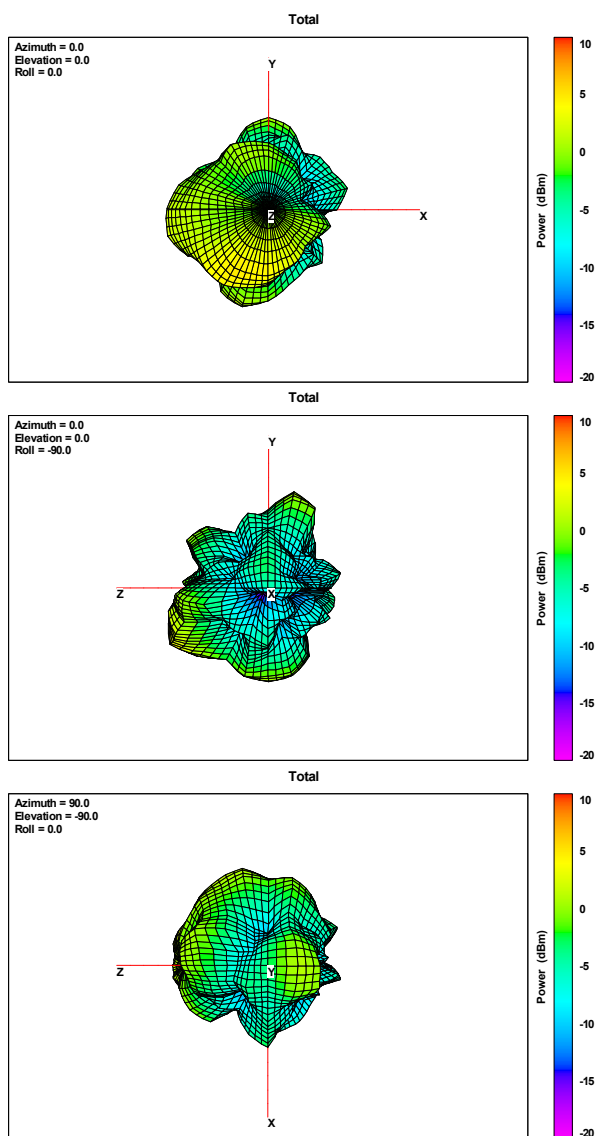
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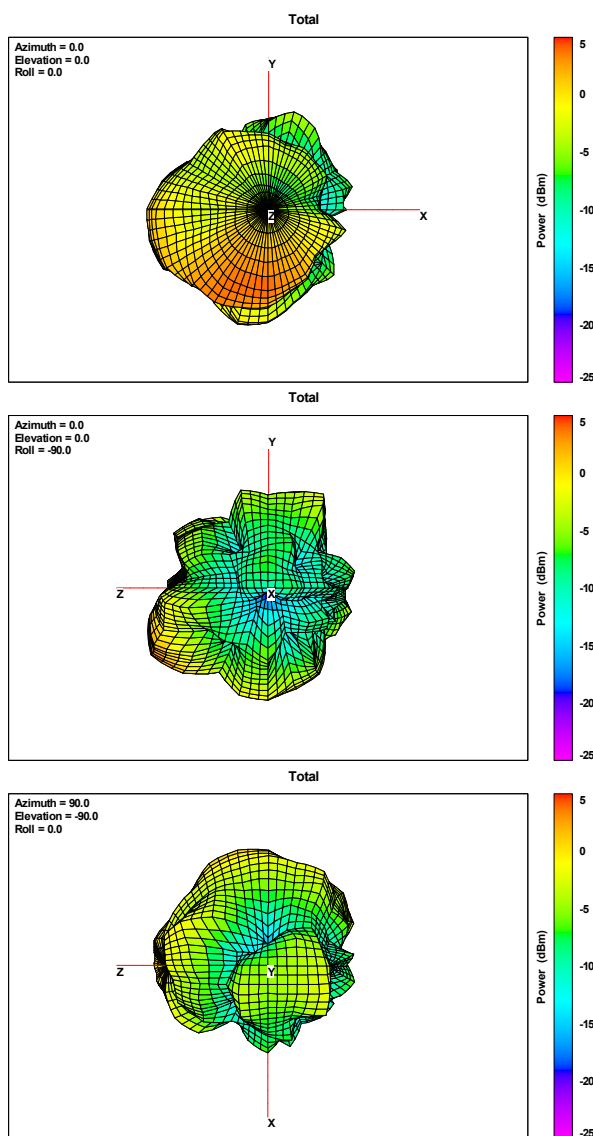
7.3.5 5500MHz



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7.3.6 5850MHz

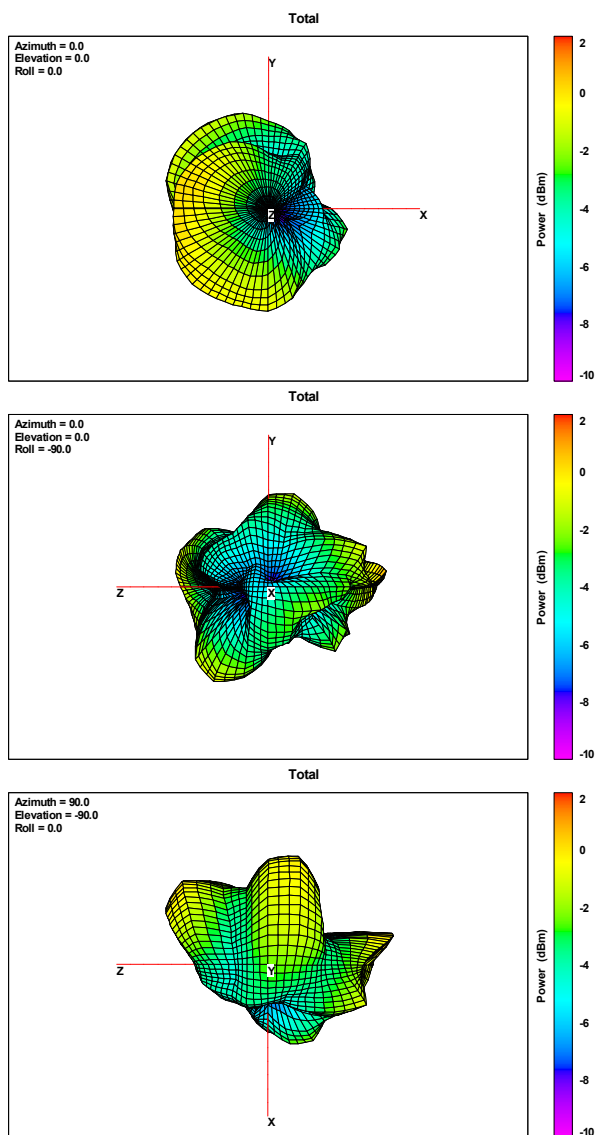


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7.4 5G Antenna4

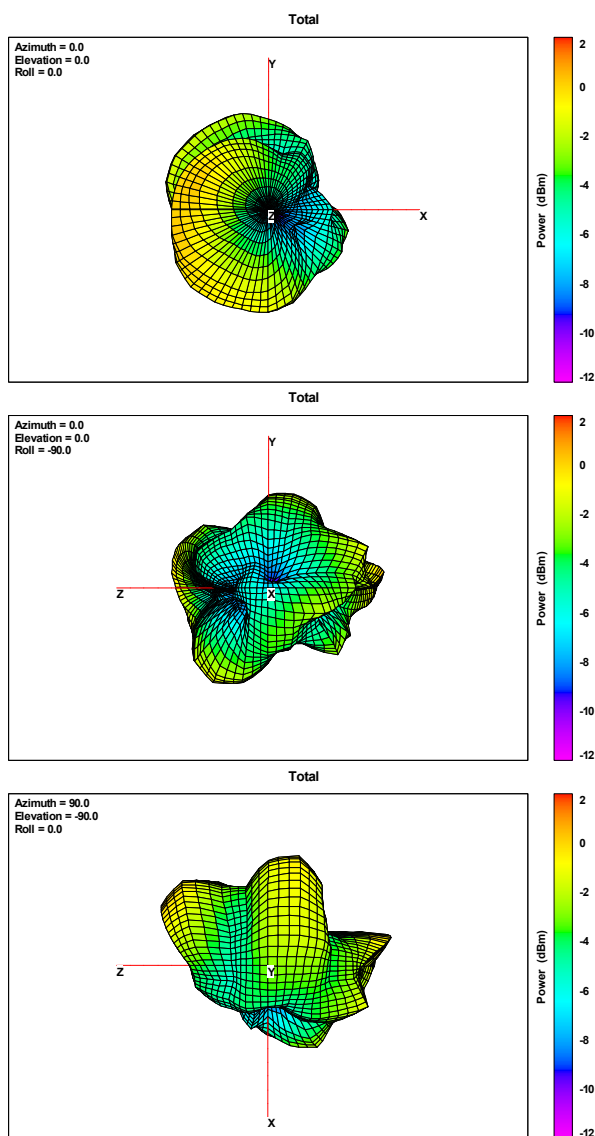
7.4.1 2400MHz



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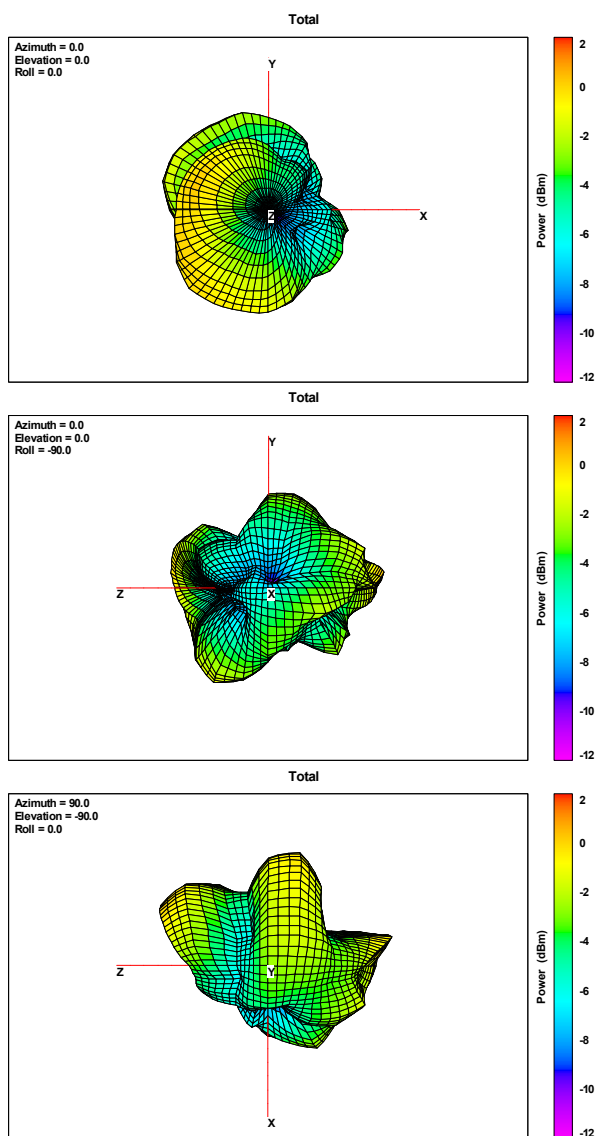
7.4.2 2450MHz



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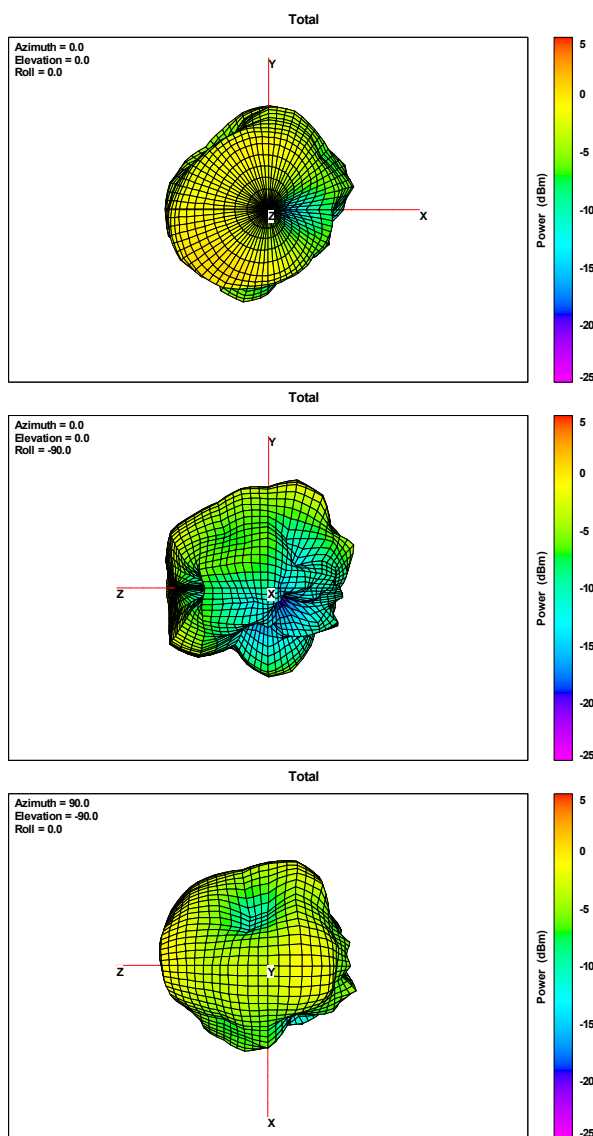
7.4.3 2500MHz



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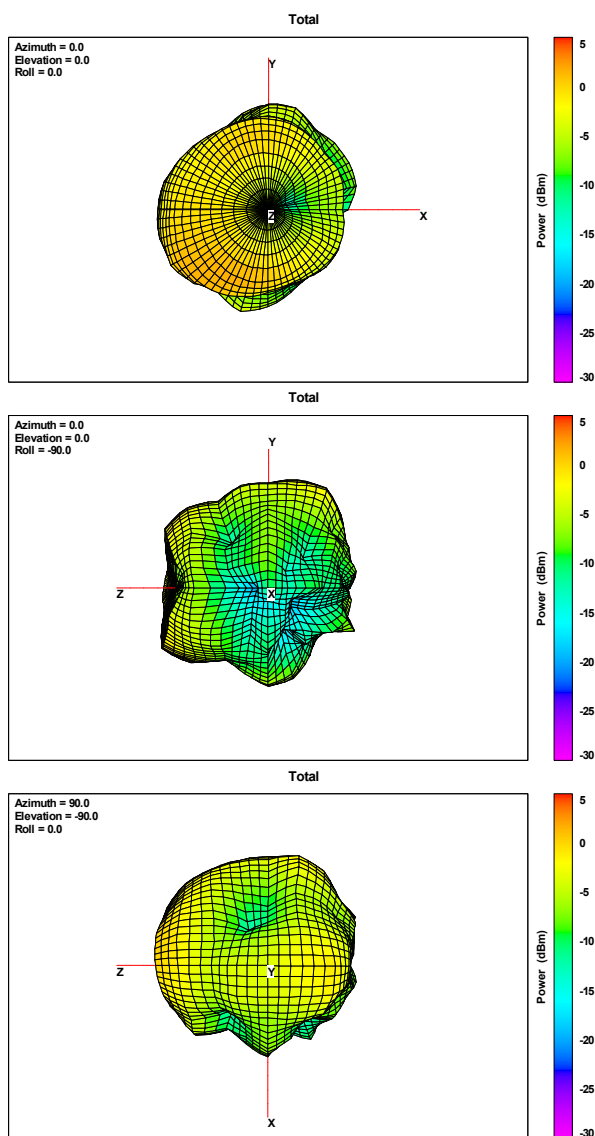
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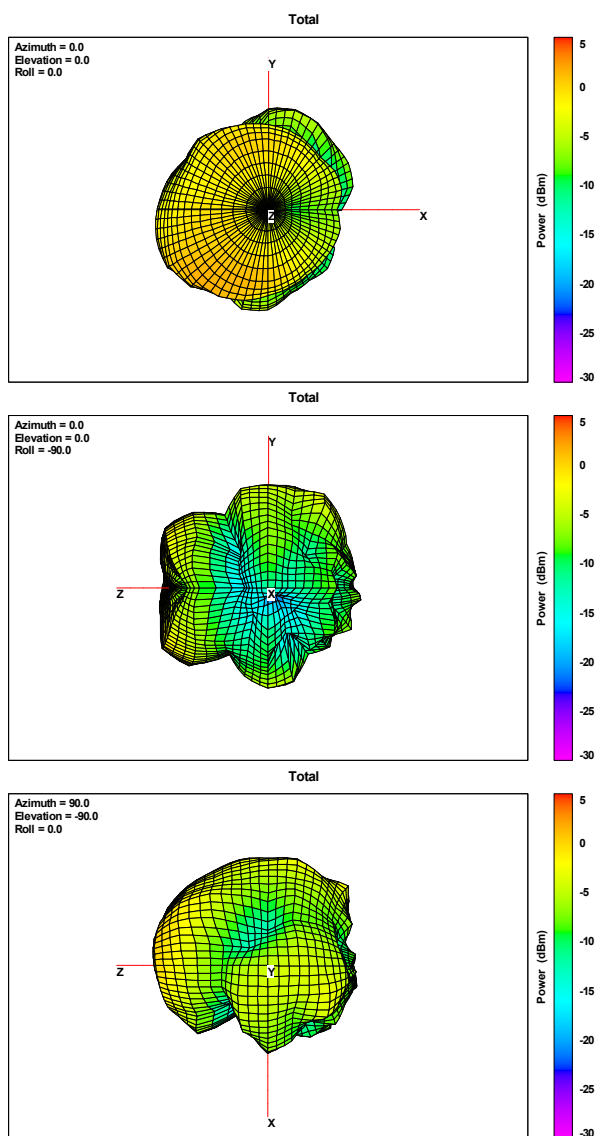
7.4.5 5500MHz



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7.4.6 5850MHz

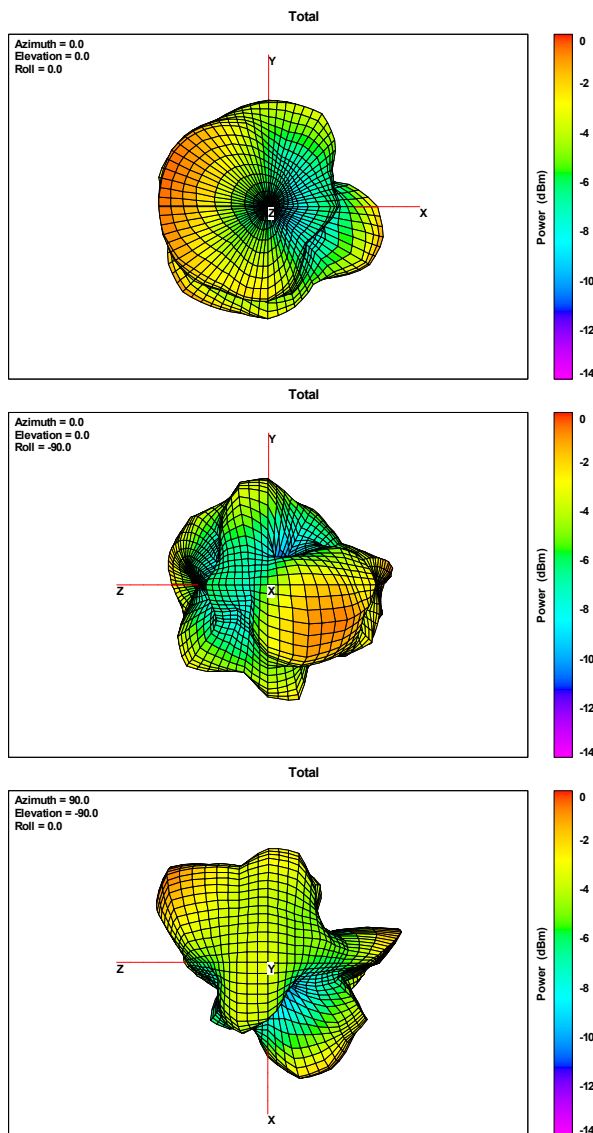


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7.5 5G Antenna5

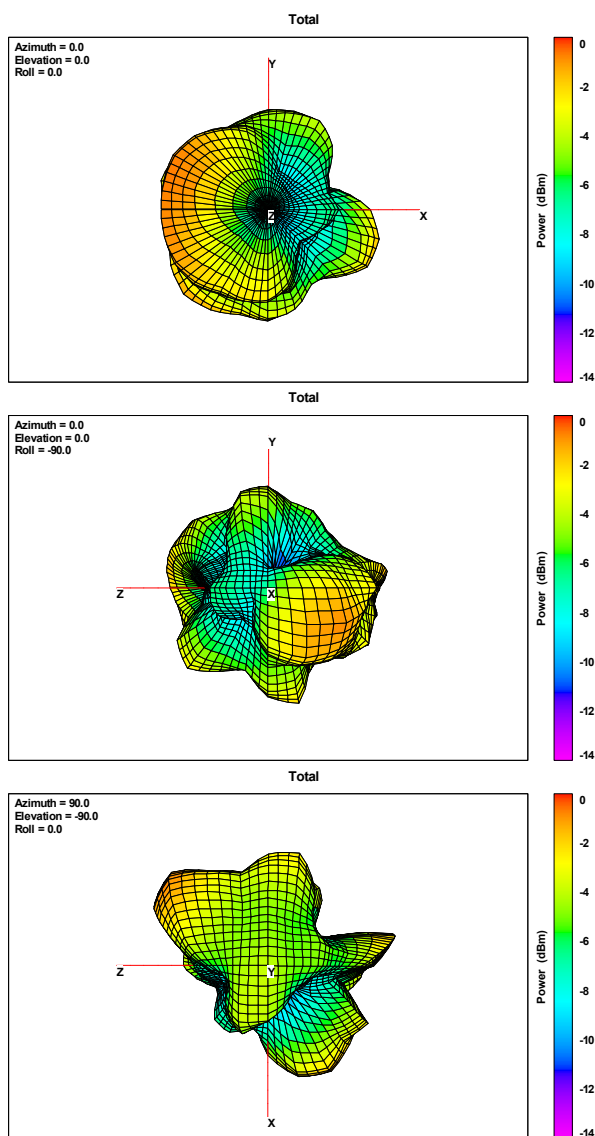
7.5.1 2400MHz



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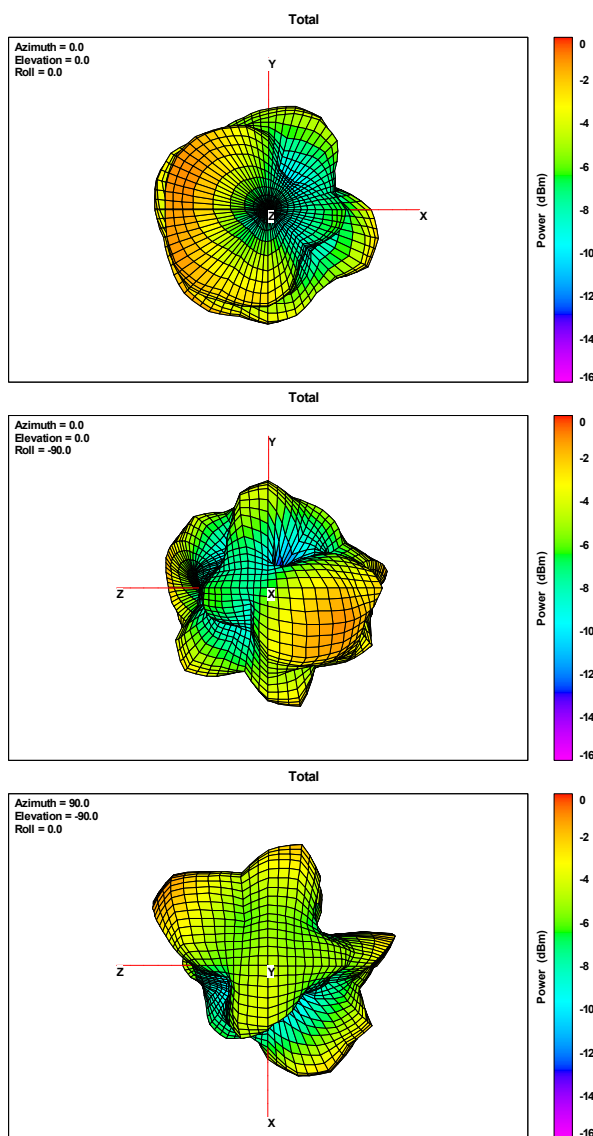
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7.5.3 2500MHz



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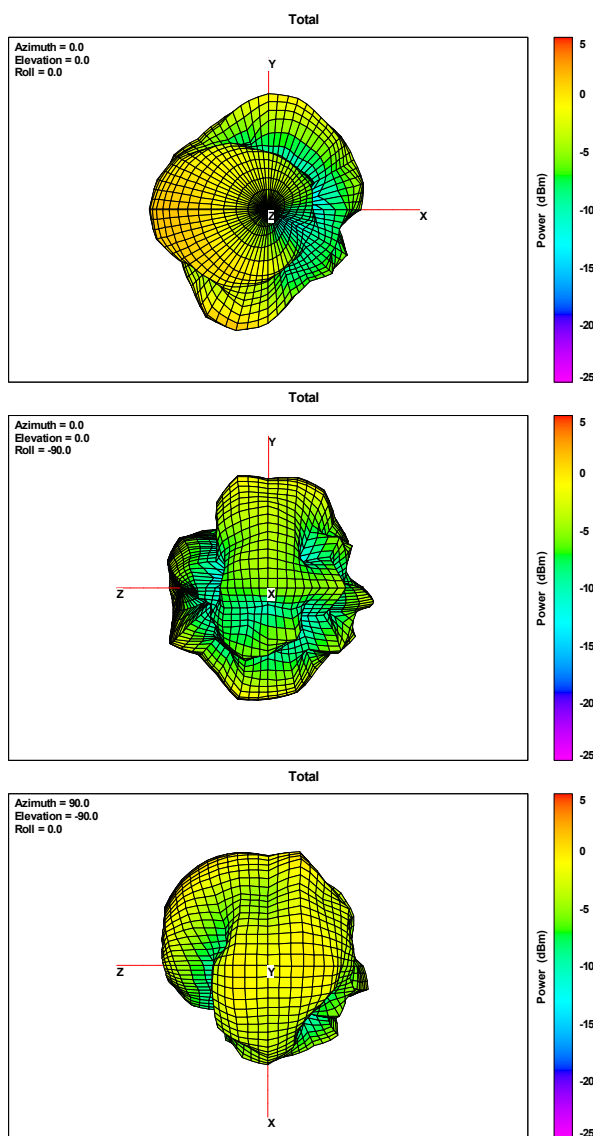
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7.5.4 5150MHz



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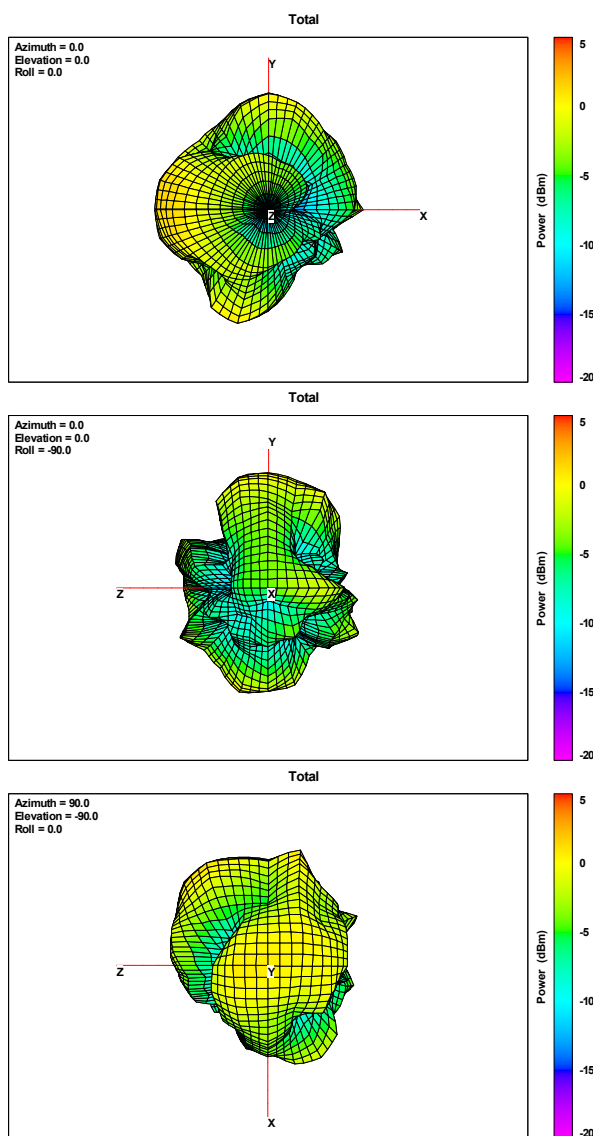
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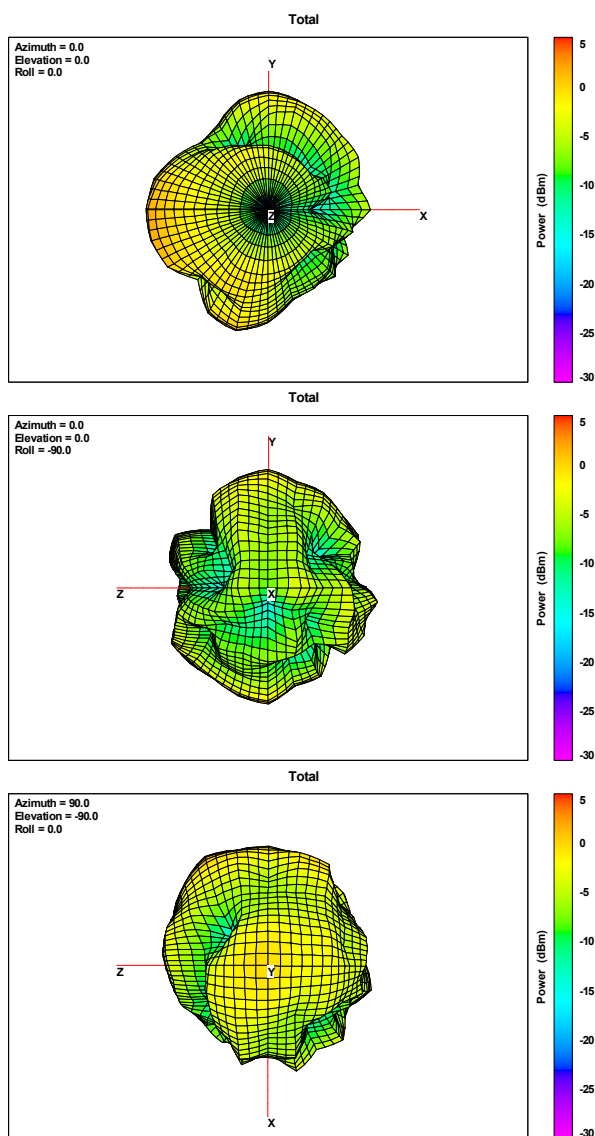
7.5.5 5500MHz



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7.5.6 5850MHz



8. EUT and Test Configuration

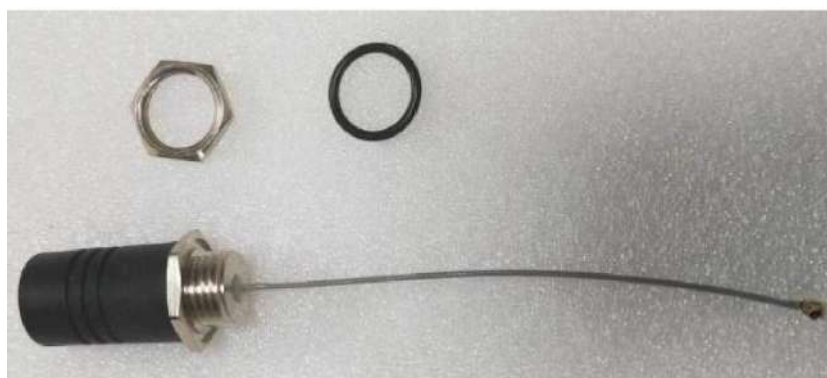
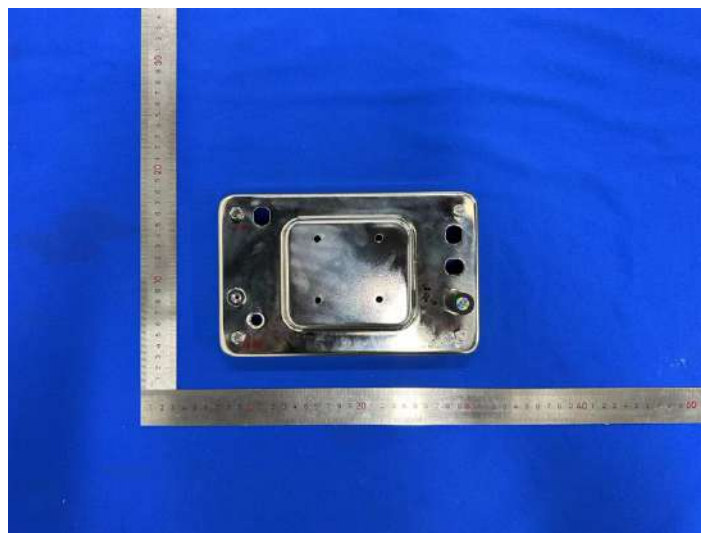
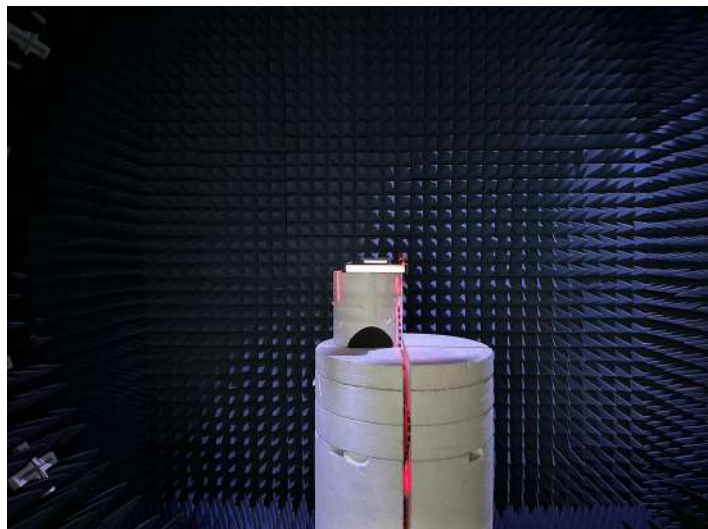


Photo of EUT



Free Space View of EUT

END REPORT
