ANTENNA PASSIVE TEST REPORT

Application No.	SUOA2403000015AT
Applicant	Icomera AB
Manufacturer	Icomera AB, Odinsgatan 28, SE-411 03, Gothenburg, Sweden
Product Name	Omni-directional Integral antenna
Model No	1399.35.0020
Standards	IEEE Std 149 ™ -2021
Date Initial Sample(s) Received	2024-03-06
Testing Start Date	2024-03-07
Testing Finish Date	2024-03-07
Report Issue Date	2024-03-22

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

Rogan Zhao	Leno shi	Caleb.Gao
Rogan zhao	Leno Shi	Caleb Gao
Report Writer	Review By	Authorized 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.
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REVISION HISTORY

Report No.	Version	Date	Memo
SUOA2403000015AT01	01	2024-03-22	The final version of report

Blockchain QR Code

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1. General Information

1.1 Details of Client

Applicant	Icomera AB
Address:	Icomera AB, Odinsgatan 28, SE-411 03, Gothenburg, Sweden
Manufacturer	Icomera AB
Address:	Icomera AB, Odinsgatan 28, SE-411 03, Gothenburg, Sweden

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
Post Code	215000
Telephone	+86(0)512-62990300
Fax	+86(0)512-62990300

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1.3 General Description of EUT

Device Description:	Icomera AB
Device Manufacturer:	Icomera AB, Odinsgatan 28, SE-411 03, Gothenburg, Sweden
Device Model:	1399.35.0020
Hardware Version:	N/A
Software Version:	N/A

1.4 Test Procedure

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

1.5 Laboratory Environment

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

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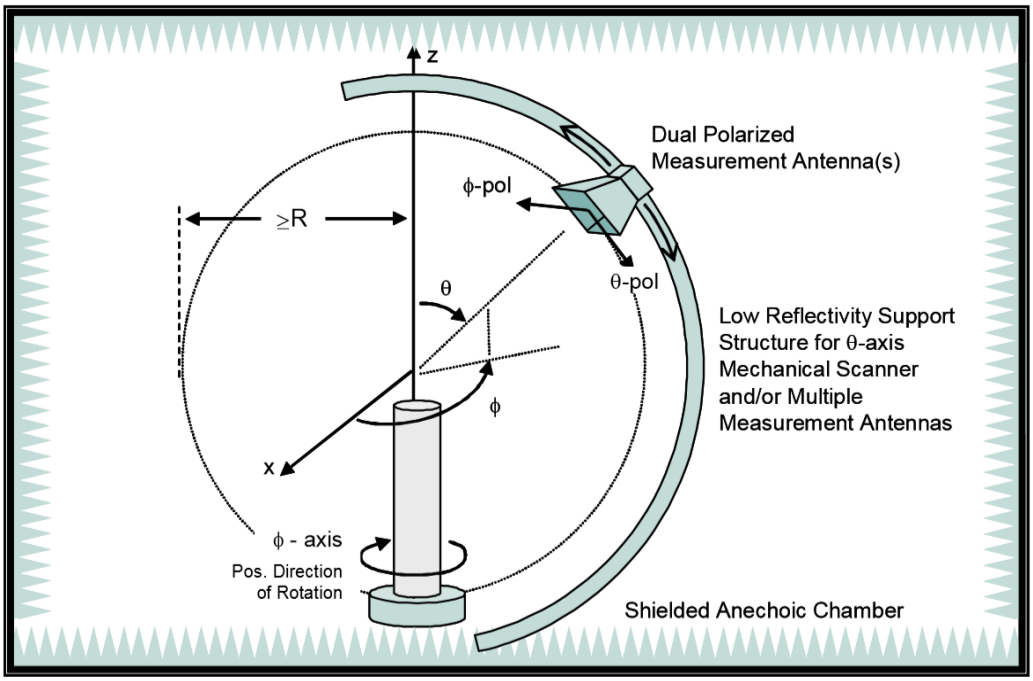
2. OTA Measurements System Configuration

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



2.2 Test Measurement

Spherical coordinate system

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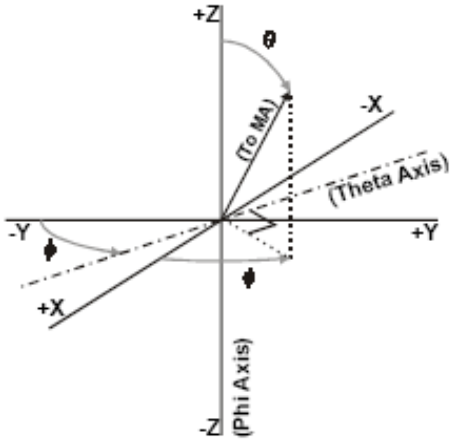

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3. Test Equipment List

Type of Equipment	Model Number	Manufacture	Calibration Date	Valid Period
Network Analyzer	ZNB8 S/N 103535	R&S	2024-02-04	2025-02-03
Switch Control System	OSP 130 S/N 100358	R&S	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	2021-05-08	2024-05-07

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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. Test Results

5.1 Wi-Fi 1 Antenna

Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-1.97	63.61	3.68
2410	-1.89	64.75	3.69
2420	-1.88	64.87	3.58
2430	-1.84	65.41	3.52
2440	-1.98	63.46	3.32
2450	-1.97	63.48	3.37
2460	-1.97	63.59	3.39
2470	-1.92	64.21	3.39
2480	-1.91	64.37	3.28
2490	-2.02	62.77	3.07
2500	-2.06	62.25	3.00
5150	-3.60	43.61	4.13
5180	-3.58	43.85	4.02
5210	-3.47	44.93	4.16
5240	-3.57	43.97	4.29
5270	-3.42	45.52	4.46
5300	-3.80	41.73	4.02
5330	-3.30	46.76	4.49
5360	-3.54	44.25	4.15
5390	-3.39	45.77	4.26
5420	-3.34	46.38	4.37
5450	-3.39	45.82	4.27
5480	-3.31	46.69	4.28
5510	-3.55	44.18	3.80
5540	-3.69	42.75	3.80
5570	-3.52	44.44	4.02

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Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
5600	-3.20	47.85	4.14
5630	-3.43	45.44	3.91
5660	-3.41	45.61	3.83
5690	-3.33	46.46	3.73
5720	-3.43	45.41	3.65
5750	-3.20	47.85	3.91
5780	-3.25	47.33	3.92
5810	-3.22	47.64	3.81
5840	-3.08	49.25	4.25
5870	-3.23	47.55	4.23
5900	-3.31	46.68	3.88
5930	-3.55	44.18	3.65
5960	-3.40	45.68	3.76
5990	-3.54	44.27	3.50
6020	-3.38	45.87	3.75
6050	-3.63	43.31	3.57
6080	-3.33	46.41	4.01
6110	-3.39	45.79	4.00
6140	-3.54	44.22	4.12
6170	-3.80	41.66	4.08
6200	-3.31	46.69	4.53
6230	-3.79	41.76	3.85
6260	-3.58	43.90	4.15
6290	-3.44	45.25	3.97
6320	-3.55	44.16	3.59
6350	-3.64	43.29	3.54

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Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
6380	-3.44	45.27	3.64
6410	-3.07	49.35	3.97
6440	-3.40	45.75	3.77
6470	-3.24	47.39	3.73
6500	-3.59	43.73	3.45
6530	-3.75	42.20	3.33
6560	-3.55	44.16	3.61
6590	-2.94	50.83	4.09
6620	-3.47	45.00	3.66
6650	-4.30	37.17	3.04
6680	-3.74	42.27	3.68
6710	-3.48	44.88	3.90
6740	-4.25	37.60	2.92
6770	-4.52	35.31	2.74
6800	-3.80	41.68	3.22
6830	-4.38	36.51	2.56
6860	-3.98	39.96	2.96
6890	-3.76	42.09	3.28
6920	-4.22	37.83	2.88
6950	-4.37	36.57	2.87
6980	-4.25	37.58	2.99
7010	-3.70	42.68	3.62
7040	-4.40	36.28	2.91
7070	-4.45	35.93	2.59
7100	-4.48	35.65	2.83
7125	-4.14	38.56	2.85

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5.2 Wi-Fi 3 Antenna

Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-2.03	62.72	2.99
2410	-1.94	63.95	3.05
2420	-1.93	64.06	3.04
2430	-1.89	64.78	3.11
2440	-2.03	62.73	3.00
2450	-2.04	62.53	3.14
2460	-2.04	62.55	3.21
2470	-2.00	63.03	3.28
2480	-1.98	63.33	3.41
2490	-2.08	61.94	3.24
2500	-2.13	61.29	3.03
5150	-3.57	43.94	3.62
5180	-3.57	43.94	3.65
5210	-3.46	45.10	3.79
5240	-3.54	44.24	4.10
5270	-3.40	45.70	4.14
5300	-3.76	42.05	3.92
5330	-3.27	47.05	4.43
5360	-3.53	44.37	4.02
5390	-3.36	46.14	4.08
5420	-3.30	46.72	4.18
5450	-3.35	46.21	4.13
5480	-3.29	46.92	4.17
5510	-3.52	44.43	3.71
5540	-3.66	43.02	3.62
5570	-3.48	44.83	3.89

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Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
5600	-3.19	48.00	4.04
5630	-3.41	45.63	3.70
5660	-3.37	45.99	3.73
5690	-3.31	46.68	3.87
5720	-3.41	45.64	3.77
5750	-3.18	48.13	3.93
5780	-3.23	47.54	3.87
5810	-3.19	48.02	3.74
5840	-3.04	49.70	4.20
5870	-3.20	47.90	4.24
5900	-3.30	46.76	3.88
5930	-3.53	44.35	3.69
5960	-3.40	45.70	3.95
5990	-3.53	44.35	3.56
6020	-3.39	45.77	3.78
6050	-3.68	42.87	3.39
6080	-3.37	46.04	3.68
6110	-3.42	45.49	3.60
6140	-3.54	44.22	3.76
6170	-3.78	41.88	3.77
6200	-3.32	46.52	4.18
6230	-3.78	41.93	3.51
6260	-3.53	44.38	3.82
6290	-3.43	45.39	3.86
6320	-3.52	44.43	3.48
6350	-3.58	43.90	3.46

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Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
6380	-3.45	45.20	3.61
6410	-3.07	49.26	4.06
6440	-3.35	46.27	3.72
6470	-3.27	47.13	4.04
6500	-3.64	43.20	3.62
6530	-3.78	41.92	3.50
6560	-3.53	44.34	3.73
6590	-2.96	50.58	4.33
6620	-3.46	45.09	3.81
6650	-4.27	37.43	2.85
6680	-3.71	42.53	3.59
6710	-3.46	45.09	4.17
6740	-4.21	37.93	2.94
6770	-4.51	35.37	2.44
6800	-3.82	41.49	3.15
6830	-4.39	36.39	2.67
6860	-4.01	39.74	2.96
6890	-3.83	41.41	3.26
6920	-4.28	37.37	2.91
6950	-4.40	36.32	2.89
6980	-4.30	37.16	2.95
7010	-3.78	41.91	3.50
7040	-4.44	35.94	2.76
7070	-4.49	35.54	2.36
7100	-4.52	35.29	2.53
7125	-4.16	38.41	2.46

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5.3 Wi-Fi 4 Antenna

Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-2.00	63.08	3.48
2410	-1.91	64.39	3.43
2420	-1.91	64.39	3.35
2430	-1.87	64.97	3.58
2440	-2.03	62.73	3.39
2450	-2.01	62.92	3.28
2460	-2.00	63.05	3.19
2470	-1.96	63.73	3.31
2480	-1.95	63.85	3.34
2490	-2.04	62.47	3.24
2500	-2.07	62.11	3.21
5150	-3.79	41.77	3.96
5180	-3.73	42.37	3.88
5210	-3.63	43.30	4.20
5240	-3.83	41.39	3.96
5270	-3.64	43.25	4.00
5300	-4.04	39.41	3.35
5330	-3.45	45.19	4.24
5360	-3.68	42.82	3.95
5390	-3.58	43.87	4.08
5420	-3.54	44.23	3.99
5450	-3.61	43.58	4.06
5480	-3.43	45.40	4.25
5510	-3.68	42.84	3.89
5540	-3.85	41.21	3.61
5570	-3.71	42.60	3.71

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Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
5600	-3.37	46.02	3.88
5630	-3.60	43.66	3.50
5660	-3.63	43.37	3.44
5690	-3.50	44.62	3.53
5720	-3.60	43.69	3.35
5750	-3.34	46.32	3.62
5780	-3.39	45.82	3.59
5810	-3.39	45.82	3.39
5840	-3.27	47.07	3.50
5870	-3.46	45.10	3.32
5900	-3.46	45.13	3.26
5930	-3.73	42.40	3.28
5960	-3.58	43.90	3.47
5990	-3.72	42.47	3.30
6020	-3.58	43.88	3.52
6050	-3.86	41.15	3.42
6080	-3.56	44.04	3.72
6110	-3.61	43.56	3.77
6140	-3.90	40.78	3.08
6170	-4.15	38.48	2.69
6200	-3.62	43.45	3.44
6230	-4.05	39.33	3.20
6260	-3.89	40.83	3.64
6290	-3.71	42.57	3.97
6320	-3.85	41.25	3.92
6350	-3.91	40.67	3.94

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Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
6380	-3.72	42.47	4.50
6410	-3.37	46.01	4.42
6440	-3.64	43.25	4.03
6470	-3.51	44.61	4.53
6500	-3.88	40.91	3.99
6530	-4.04	39.41	3.60
6560	-3.84	41.30	4.12
6590	-3.30	46.81	4.73
6620	-3.81	41.60	4.59
6650	-4.63	34.43	3.60
6680	-4.04	39.41	4.89
6710	-3.76	42.07	5.08
6740	-4.55	35.11	3.86
6770	-4.82	32.96	3.61
6800	-4.09	38.97	3.89
6830	-4.68	34.02	3.46
6860	-4.37	36.56	3.12
6890	-4.12	38.70	3.79
6920	-4.60	34.70	2.96
6950	-4.75	33.53	2.90
6980	-4.66	34.24	2.55
7010	-4.12	38.76	4.34
7040	-4.78	33.25	2.81
7070	-4.83	32.87	2.95
7100	-4.87	32.55	3.43
7125	-4.61	34.62	2.90

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5.4 Wi-Fi 6 Antenna

Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-2.00	63.16	3.30
2410	-1.91	64.35	3.30
2420	-1.91	64.39	3.32
2430	-1.87	65.01	3.51
2440	-2.02	62.87	3.34
2450	-2.00	63.06	3.19
2460	-2.00	63.15	3.13
2470	-1.95	63.75	3.19
2480	-1.96	63.67	3.18
2490	-2.07	62.06	3.07
2500	-2.10	61.67	2.94
5150	-3.68	42.89	3.30
5180	-3.62	43.44	3.34
5210	-3.52	44.41	3.81
5240	-3.71	42.53	3.83
5270	-3.51	44.58	4.17
5300	-3.91	40.65	3.67
5330	-3.35	46.26	4.41
5360	-3.57	43.93	4.11
5390	-3.45	45.17	4.16
5420	-3.43	45.39	3.88
5450	-3.52	44.49	3.85
5480	-3.36	46.16	3.94
5510	-3.60	43.64	3.51
5540	-3.77	42.00	3.13
5570	-3.60	43.68	3.26

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Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
5600	-3.28	47.02	3.68
5630	-3.51	44.57	3.44
5660	-3.52	44.46	3.32
5690	-3.41	45.61	3.50
5720	-3.51	44.59	3.37
5750	-3.27	47.14	3.63
5780	-3.29	46.87	3.49
5810	-3.29	46.91	3.56
5840	-3.18	48.13	3.55
5870	-3.37	46.05	3.13
5900	-3.37	45.99	3.13
5930	-3.63	43.38	2.92
5960	-3.47	44.93	3.07
5990	-3.60	43.65	2.80
6020	-3.47	44.93	3.04
6050	-3.75	42.17	2.95
6080	-3.40	45.73	3.27
6110	-3.45	45.17	3.22
6140	-3.73	42.38	2.99
6170	-3.95	40.29	2.55
6200	-3.42	45.47	3.67
6230	-3.85	41.18	2.82
6260	-3.68	42.89	3.07
6290	-3.47	44.96	3.71
6320	-3.58	43.89	3.77
6350	-3.66	43.05	3.69

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Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
6380	-3.48	44.86	4.43
6410	-3.11	48.86	4.70
6440	-3.44	45.34	4.21
6470	-3.28	47.00	4.86
6500	-3.62	43.43	3.79
6530	-3.80	41.67	3.62
6560	-3.62	43.44	3.71
6590	-3.00	50.13	4.60
6620	-3.53	44.33	3.55
6650	-4.37	36.55	3.30
6680	-3.76	42.11	5.12
6710	-3.49	44.79	4.28
6740	-4.31	37.10	3.62
6770	-4.59	34.79	3.73
6800	-3.84	41.33	4.01
6830	-4.46	35.80	2.99
6860	-4.11	38.77	3.31
6890	-3.90	40.77	4.62
6920	-4.38	36.47	3.14
6950	-4.51	35.40	3.46
6980	-4.41	36.20	3.88
7010	-3.87	40.97	4.48
7040	-4.58	34.85	3.02
7070	-4.60	34.64	3.79
7100	-4.67	34.12	3.25
7125	-4.36	36.62	3.94

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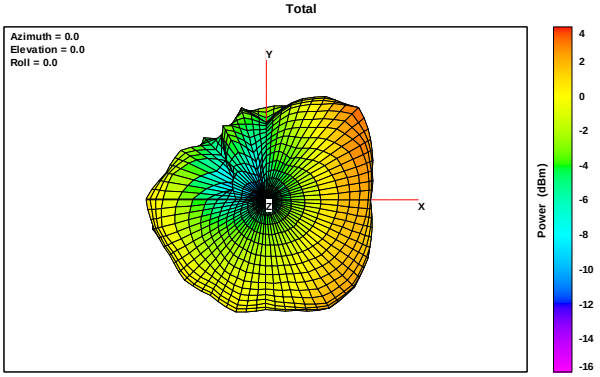
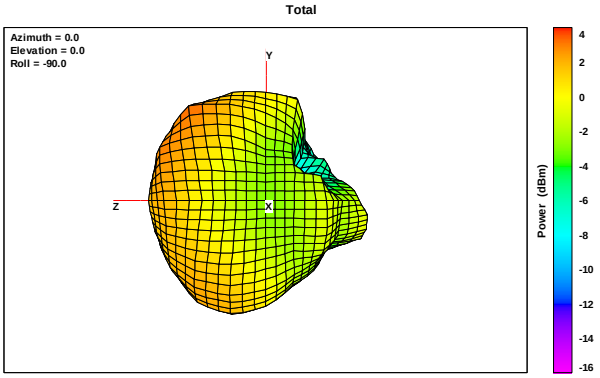
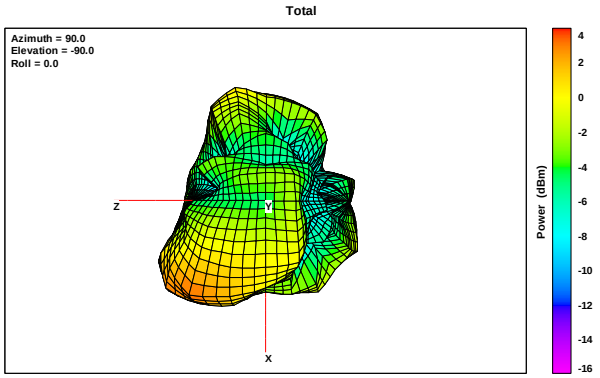
6. 2D&3D Antenna Pattern

6.1 Wi-Fi 1 Antenna

6.1.1 2400MHz







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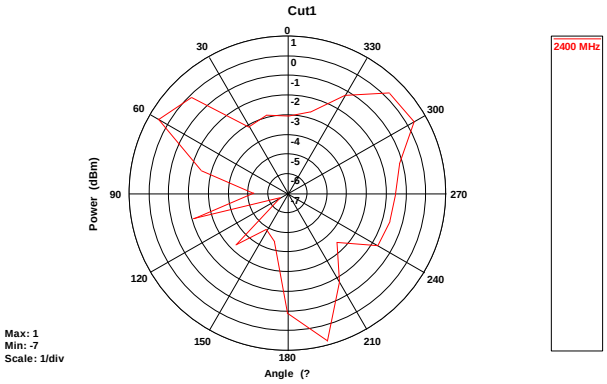

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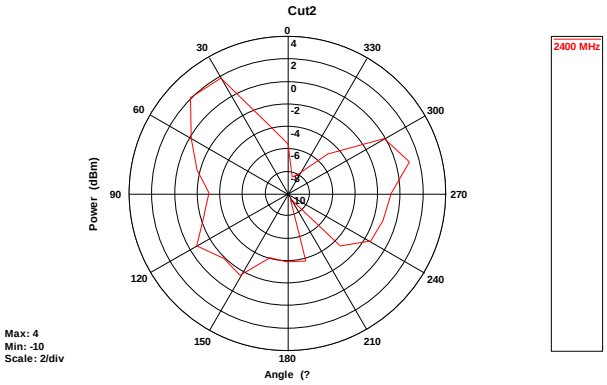

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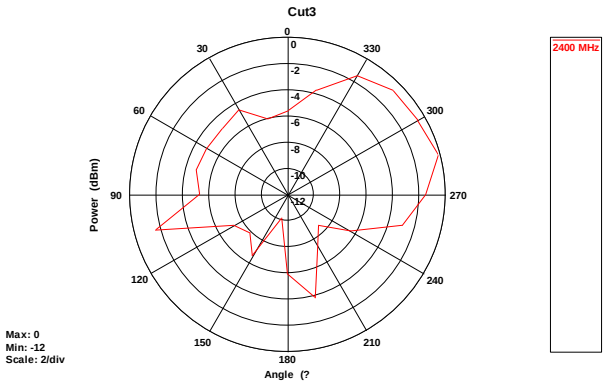

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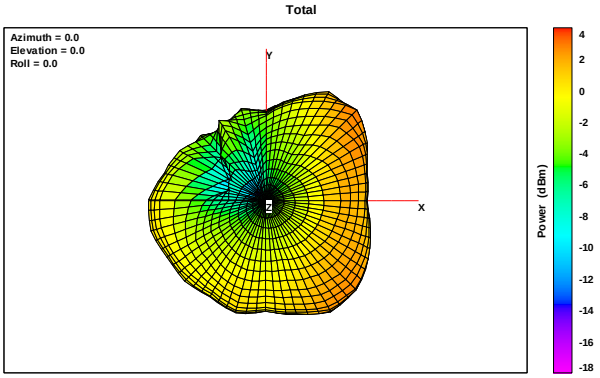
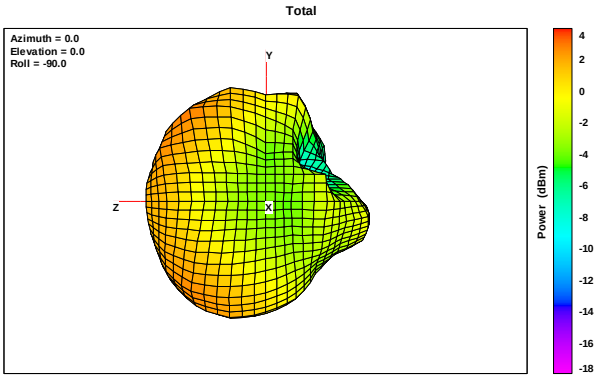
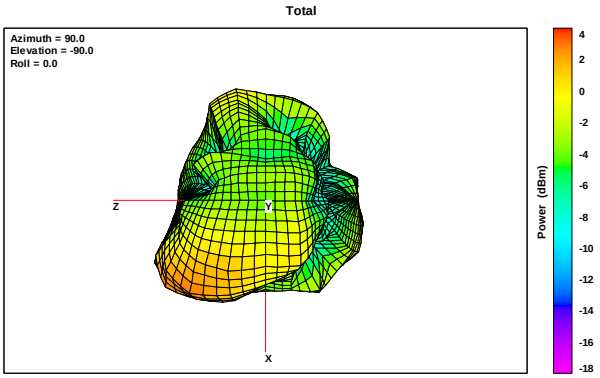
6.1.2 2450MHz







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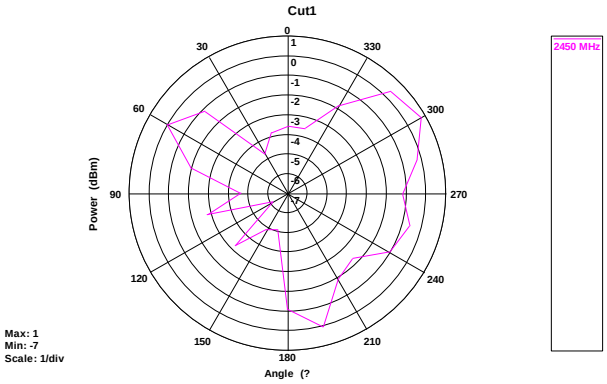

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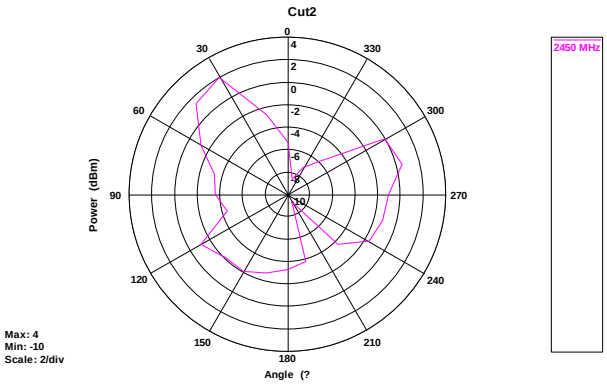

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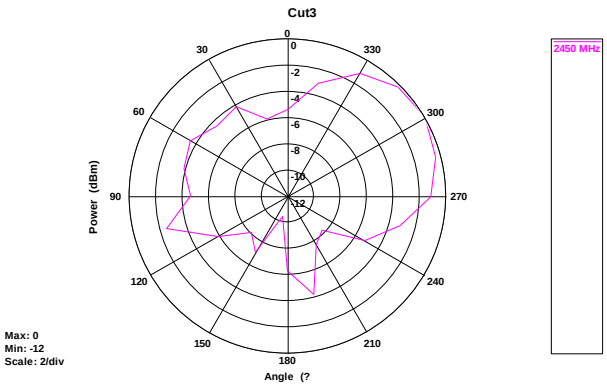

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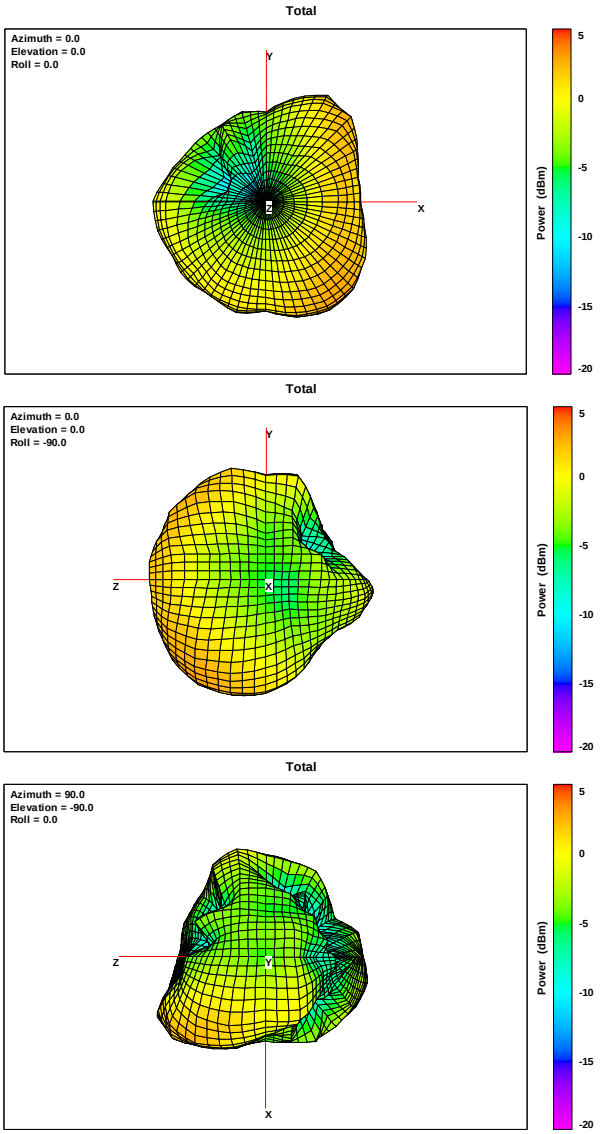
6.1.3 2500MHz



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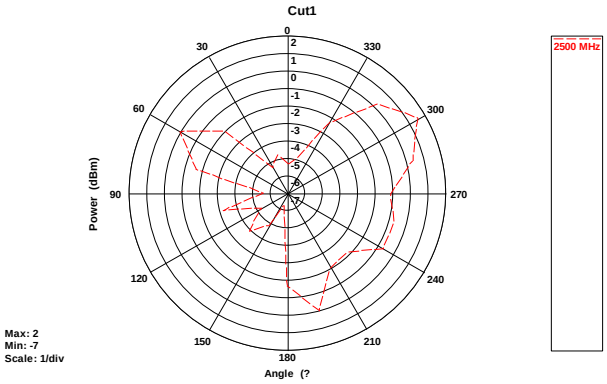

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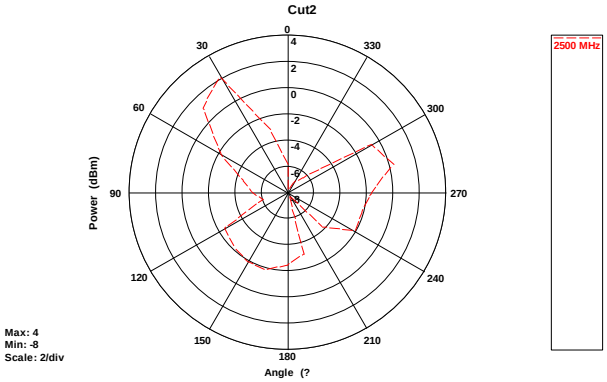

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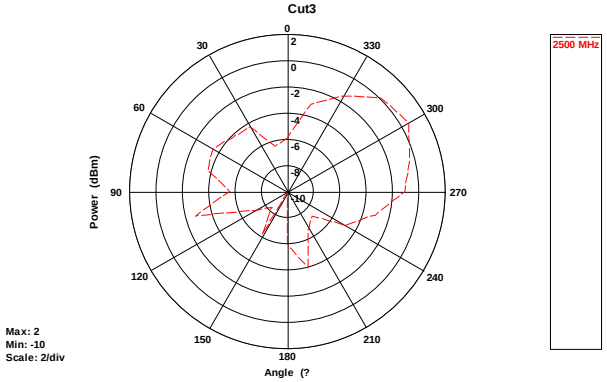

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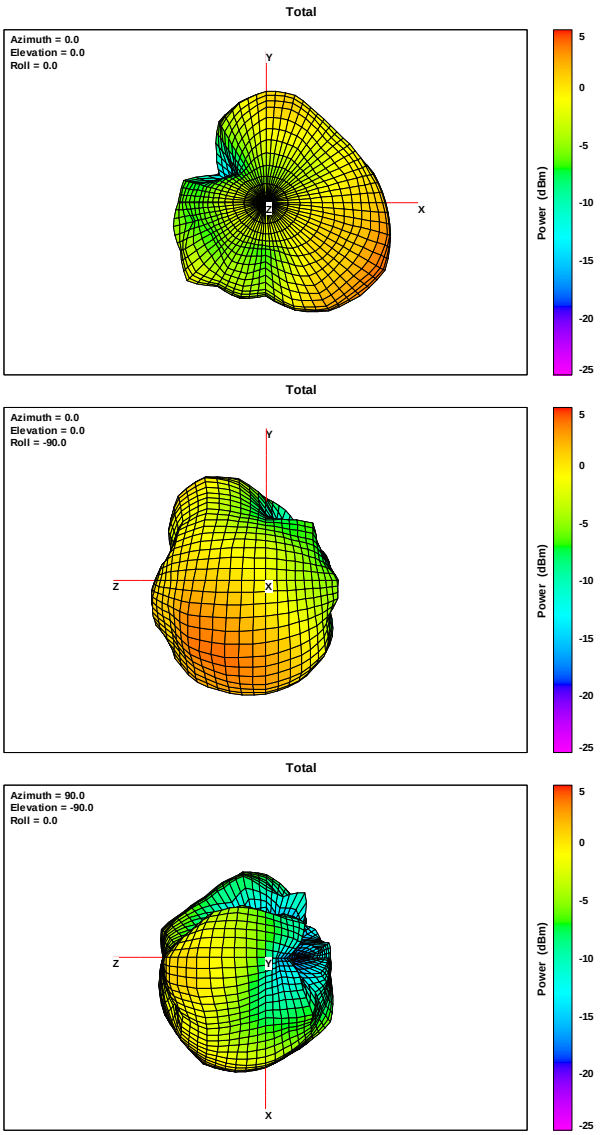
6.1.4 5150MHz



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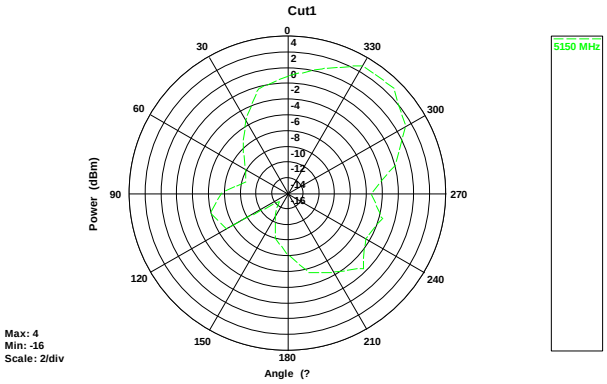

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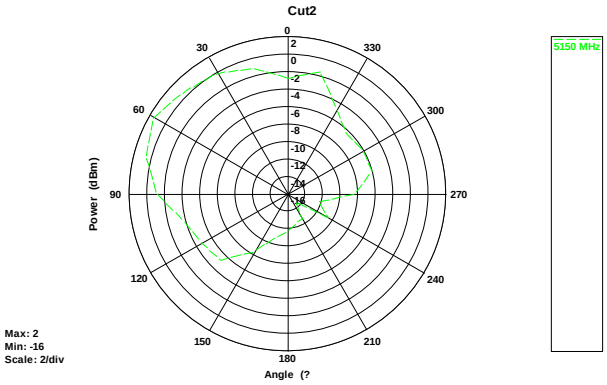

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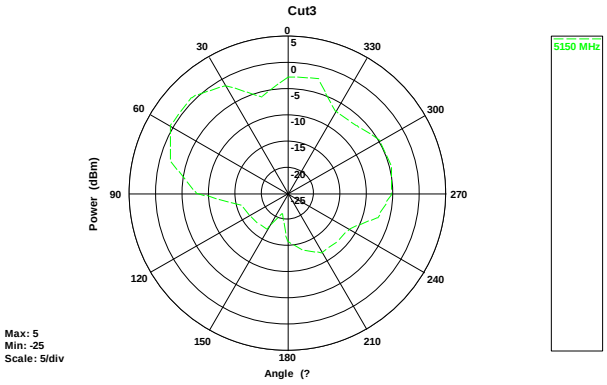

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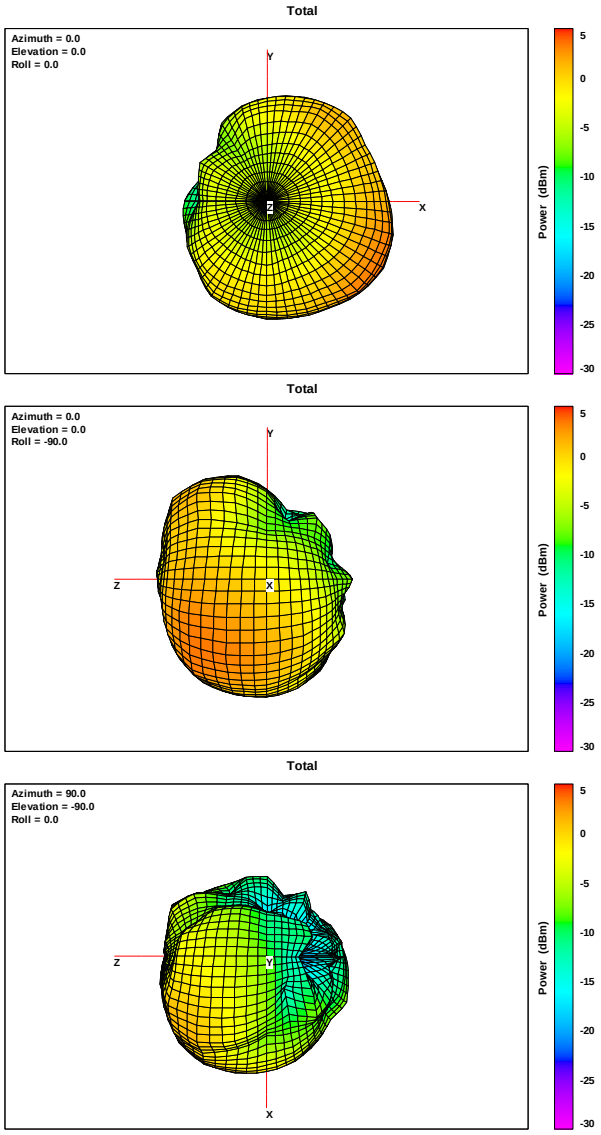
6.1.5 5990MHz



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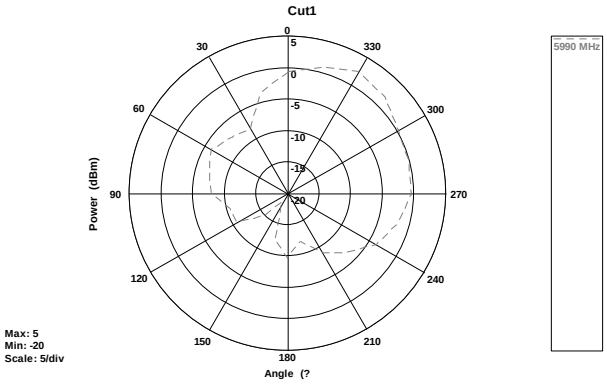

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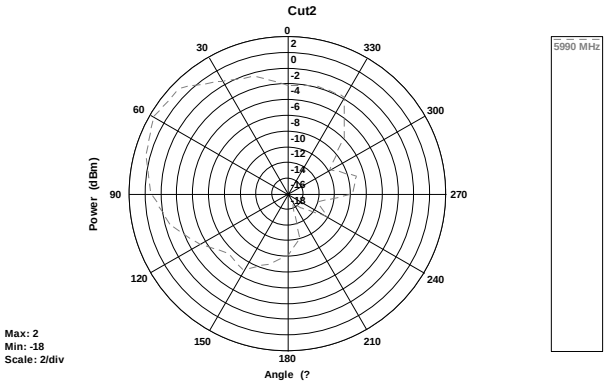

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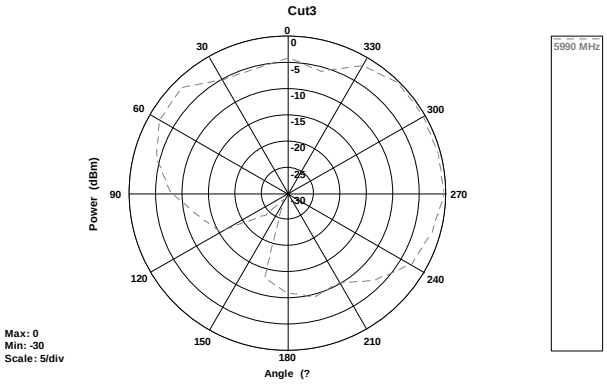

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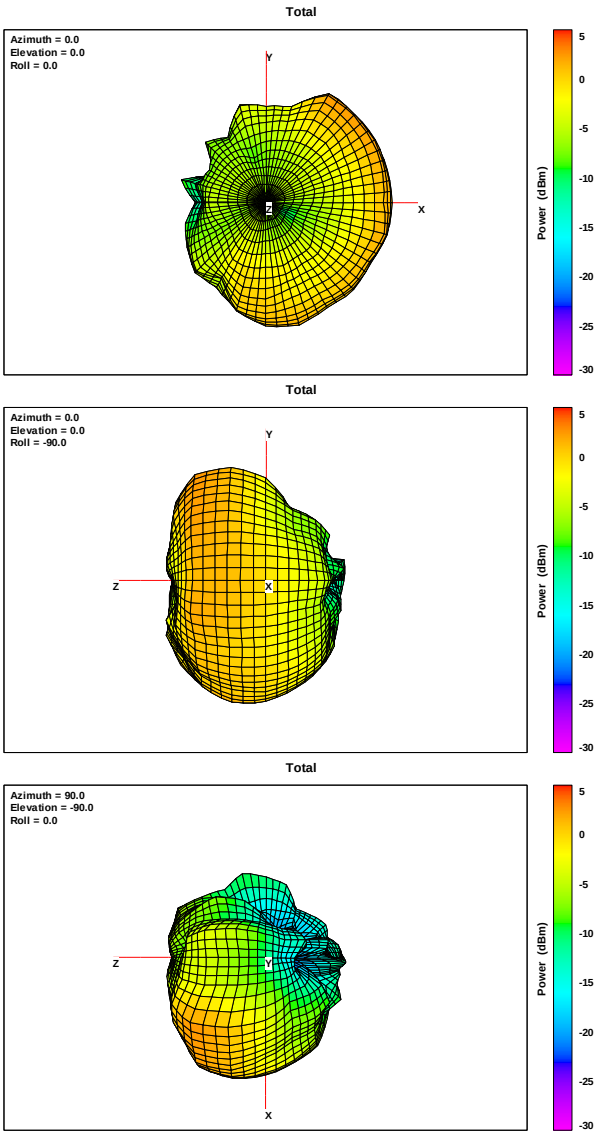
6.1.6 7125MHz



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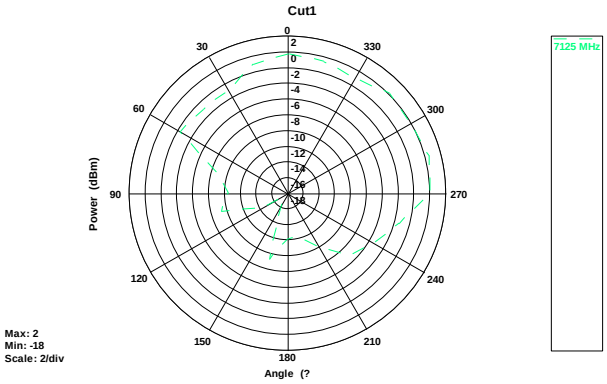

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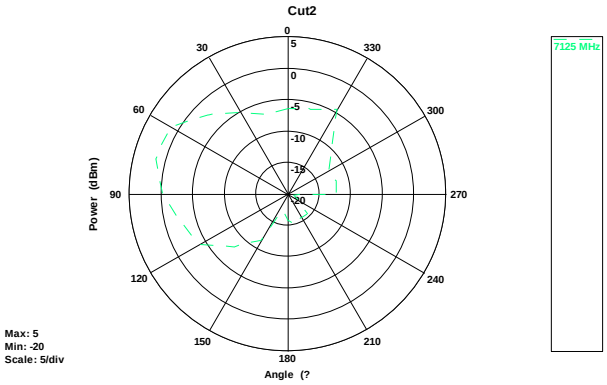

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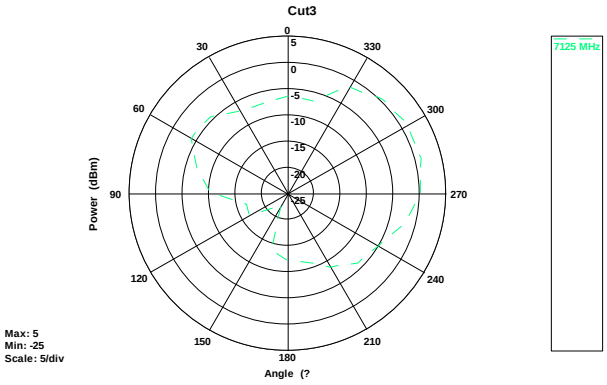

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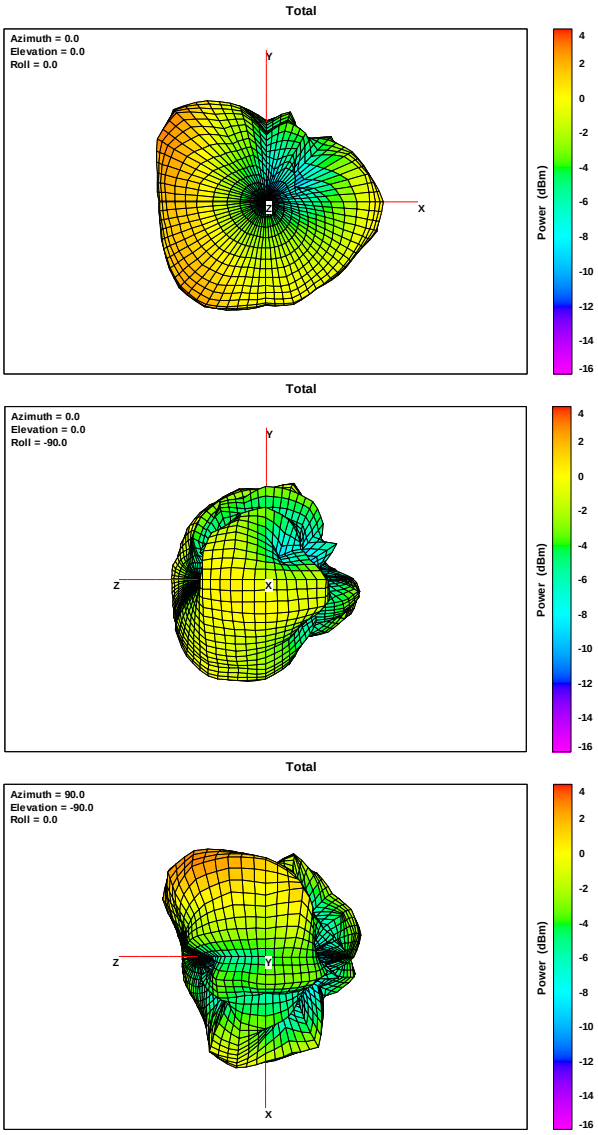
6.2 Wi-Fi 3 Antenna

6.2.1 2400MHz



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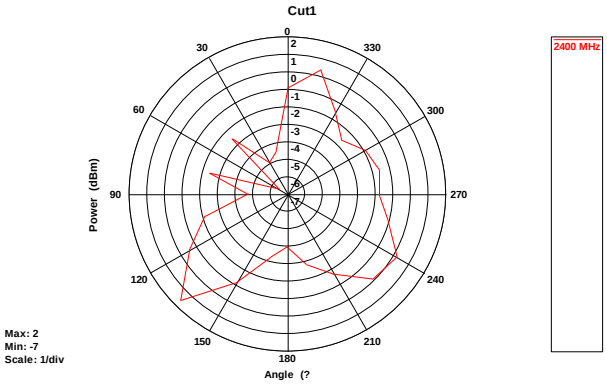

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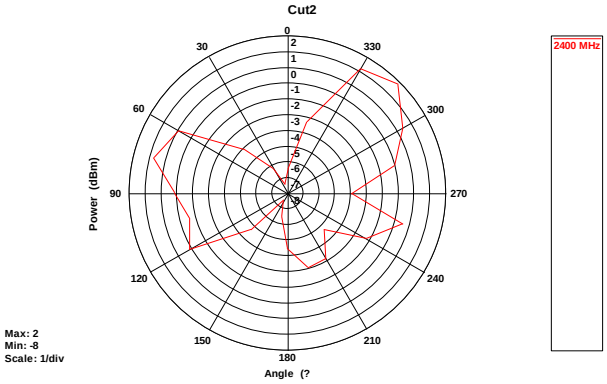

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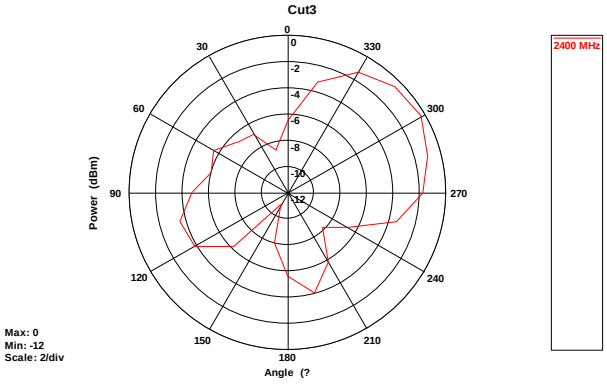

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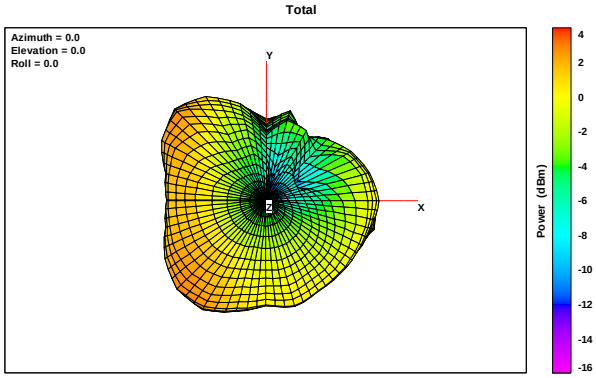
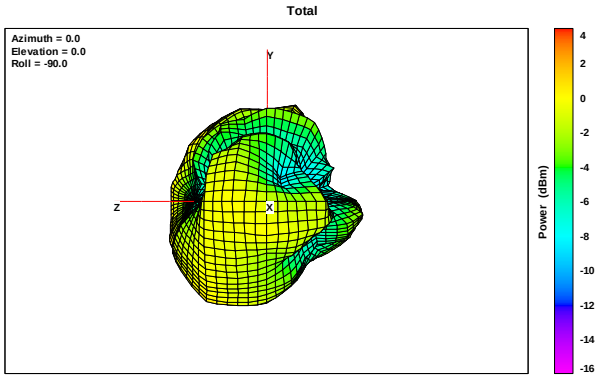
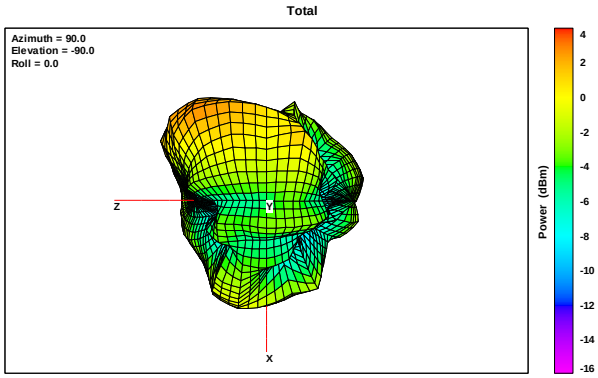
6.2.2 2450MHz







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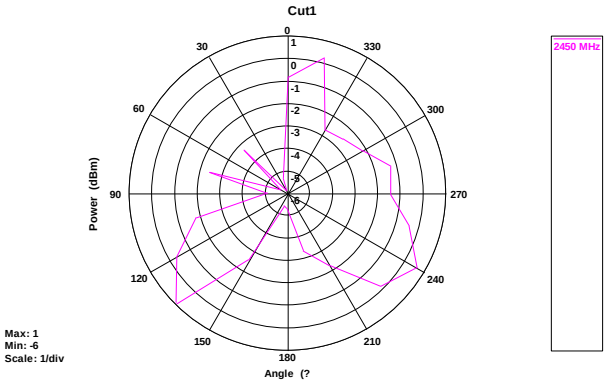

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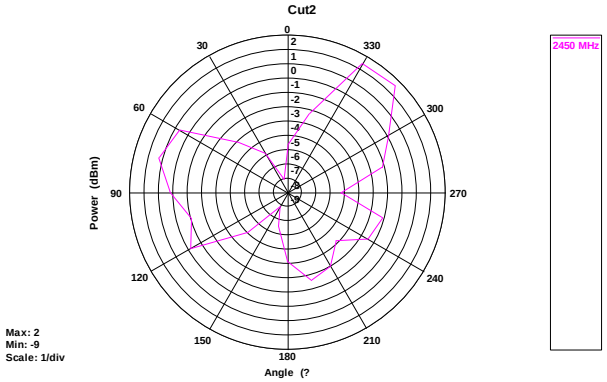

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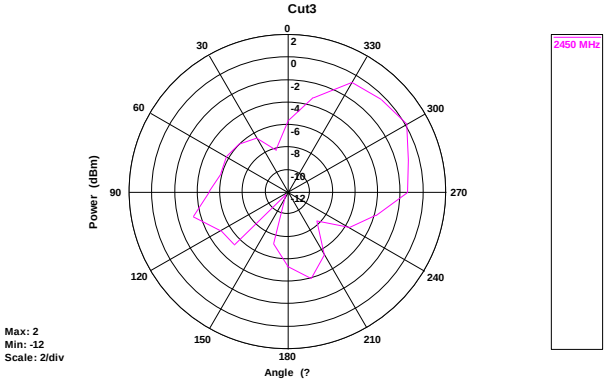

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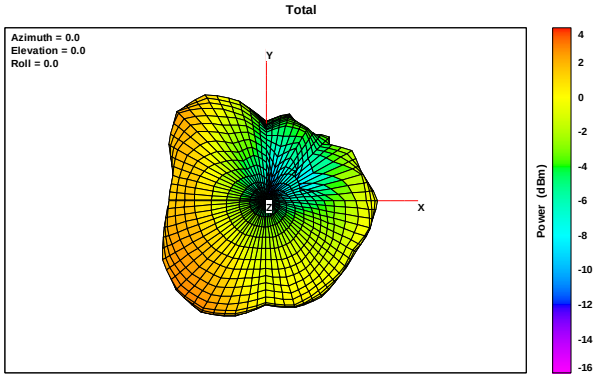
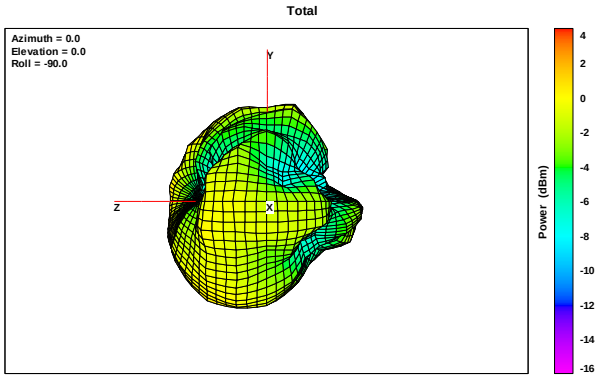
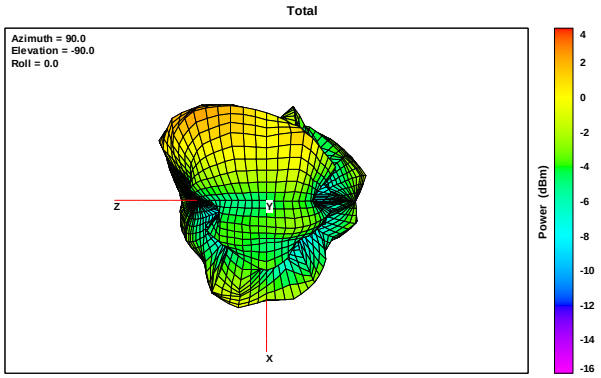
6.2.3 2500MHz







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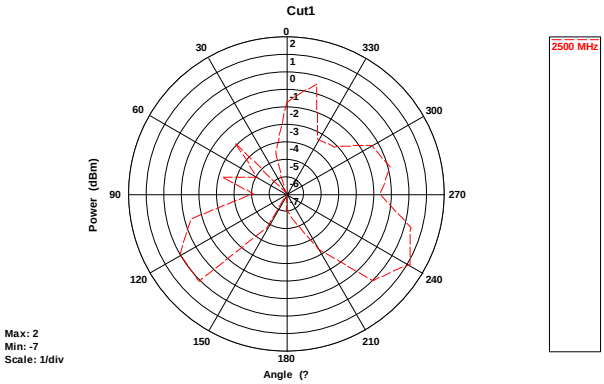

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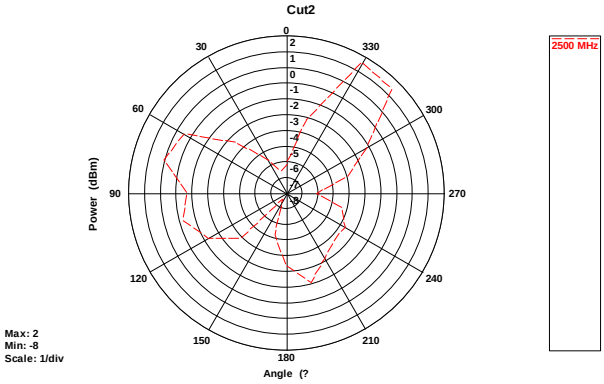

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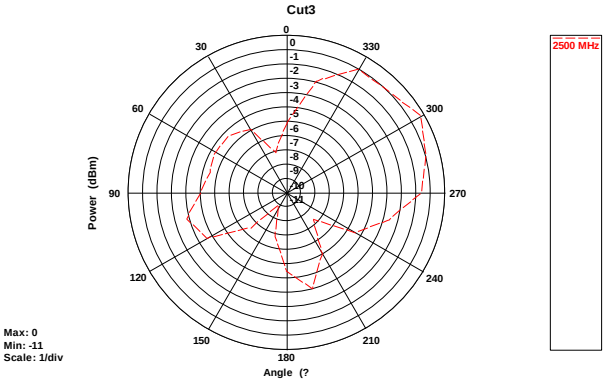

Phi=90

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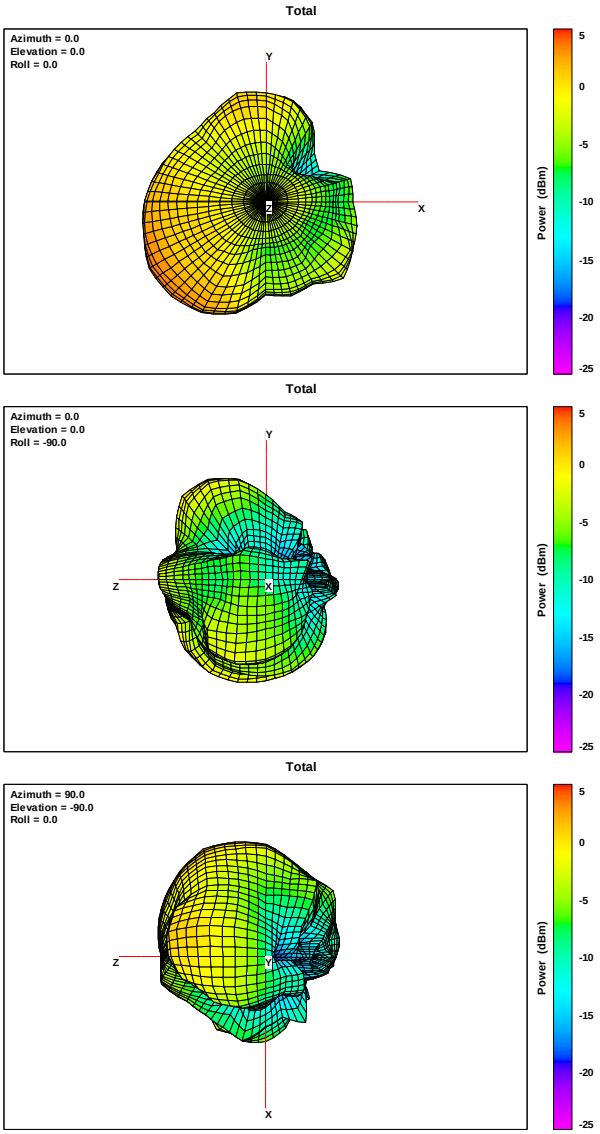
6.2.4 5150MHz



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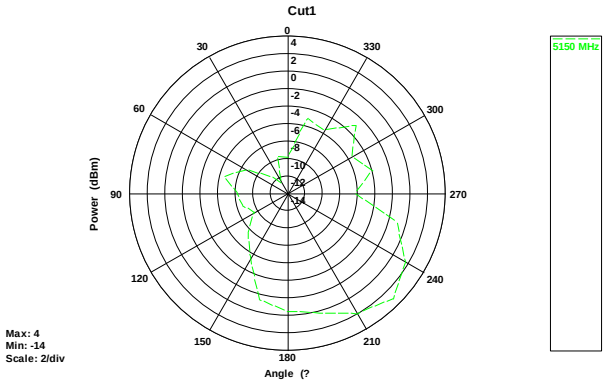

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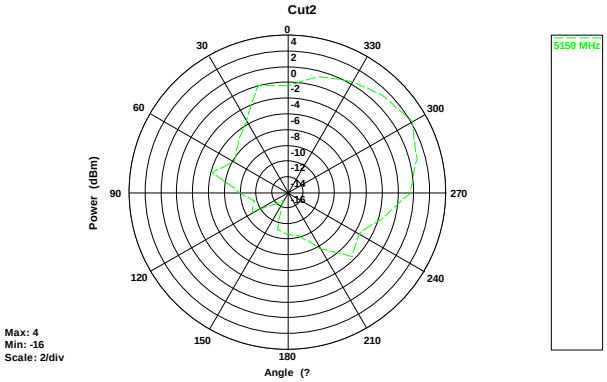

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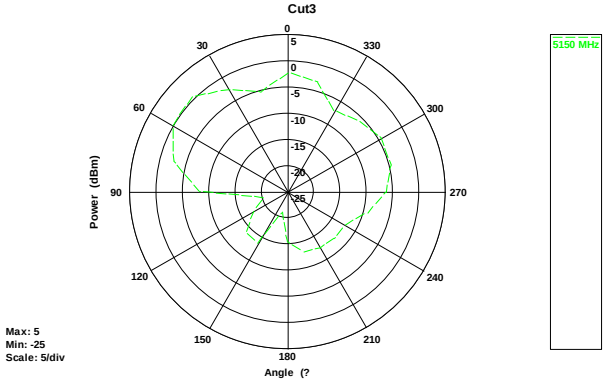

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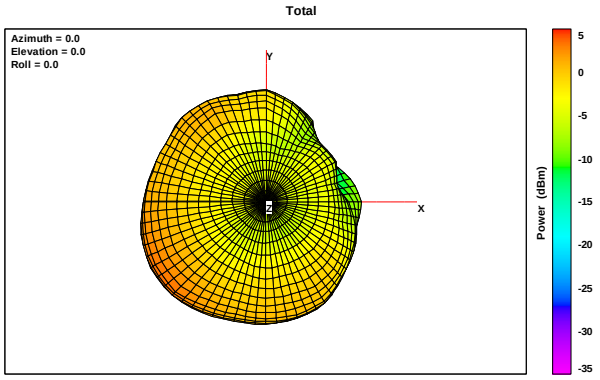
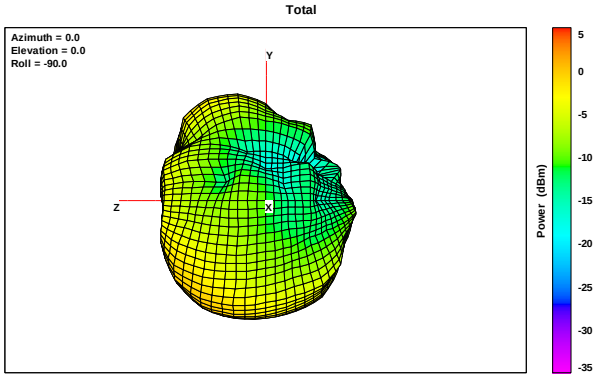
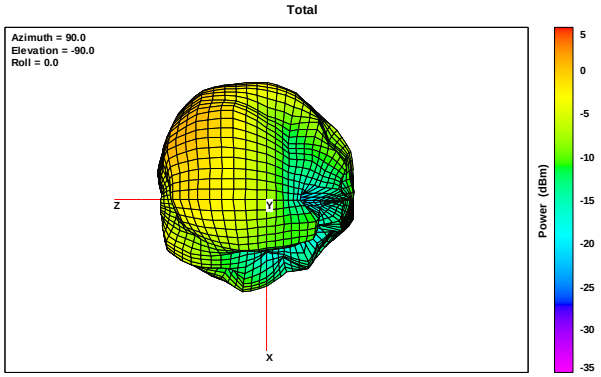
6.2.5 5990MHz







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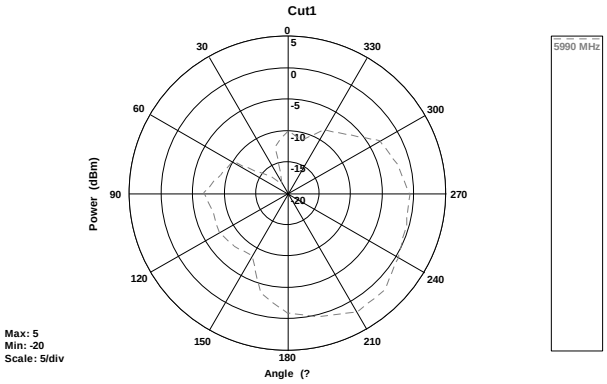

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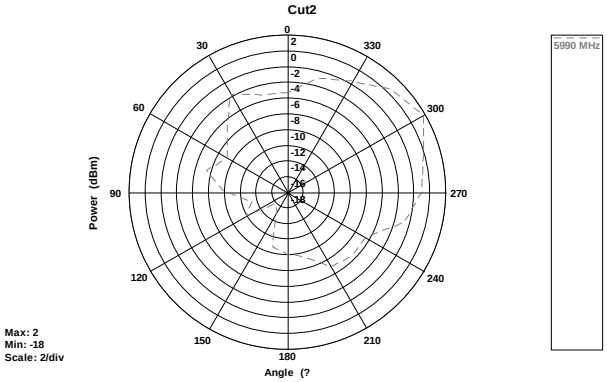

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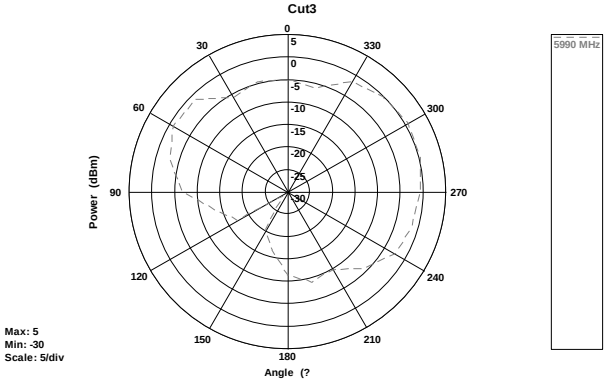

Phi=90

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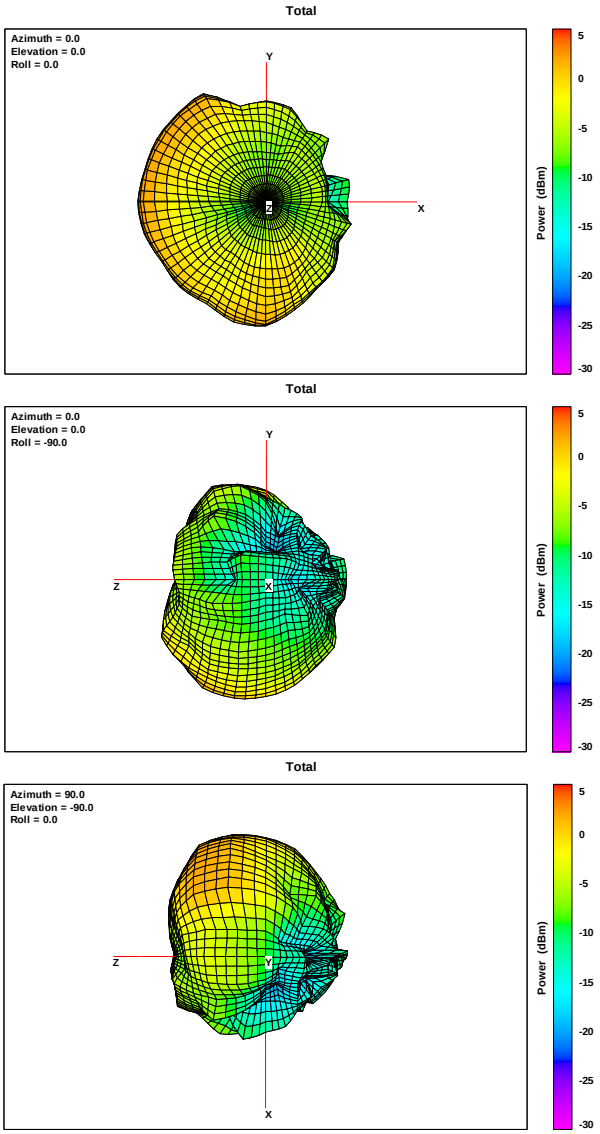
6.2.6 7125MHz



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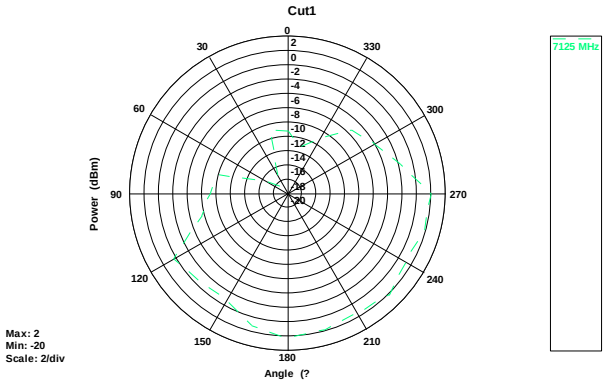

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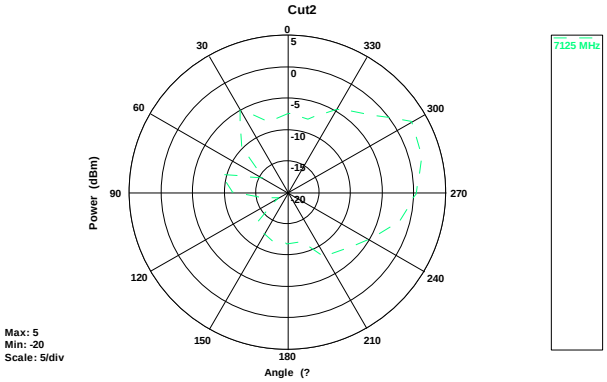

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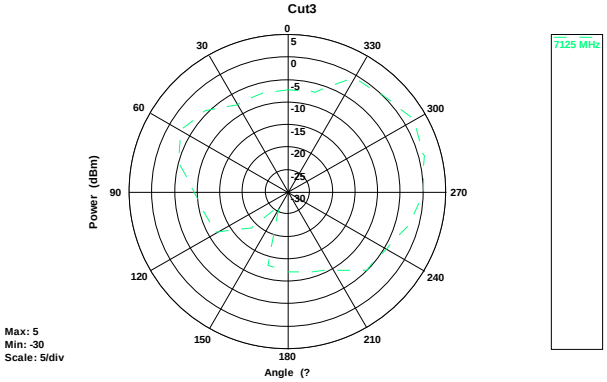

Phi=90

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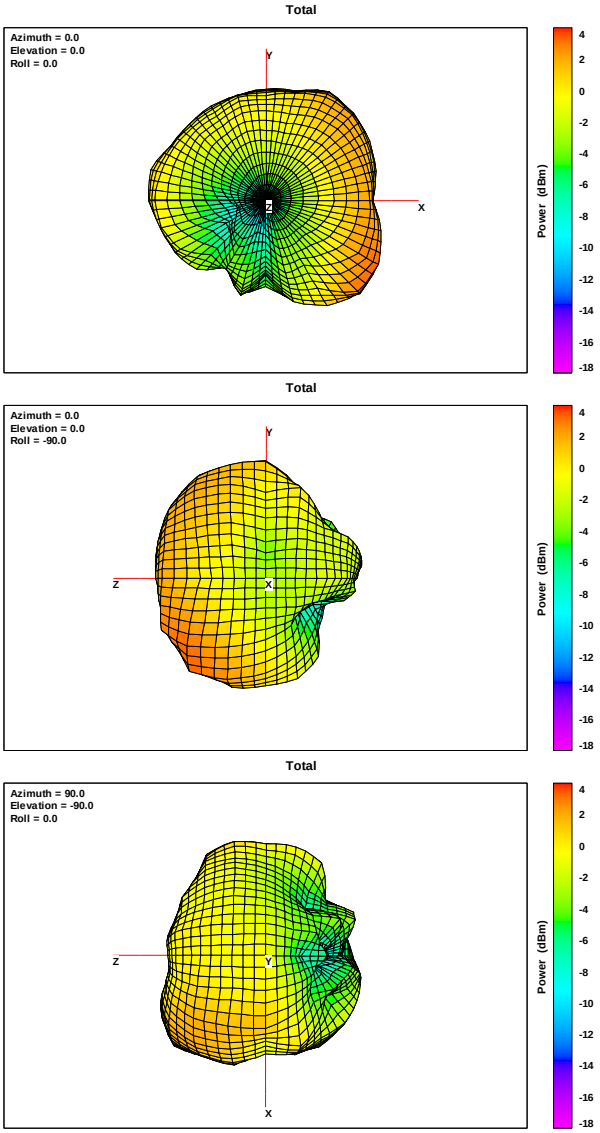
6.3 Wi-Fi 4 Antenna

6.3.1 2400MHz



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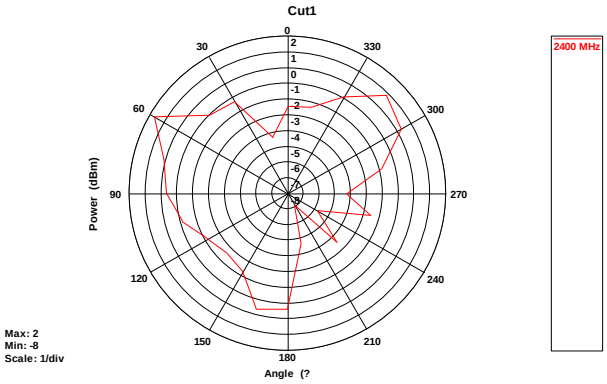

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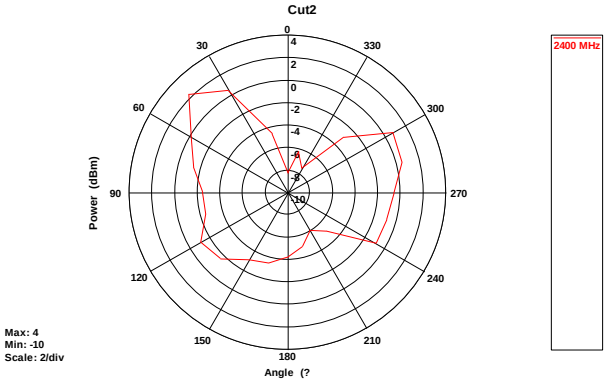

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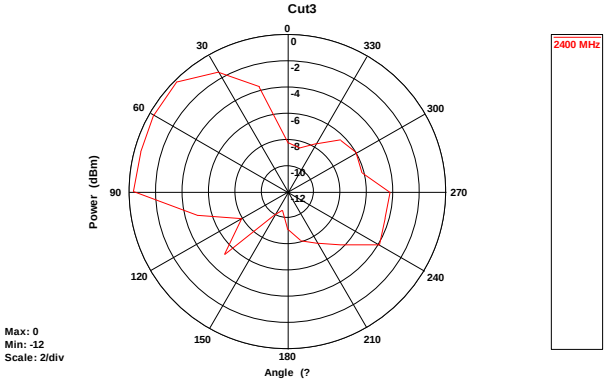

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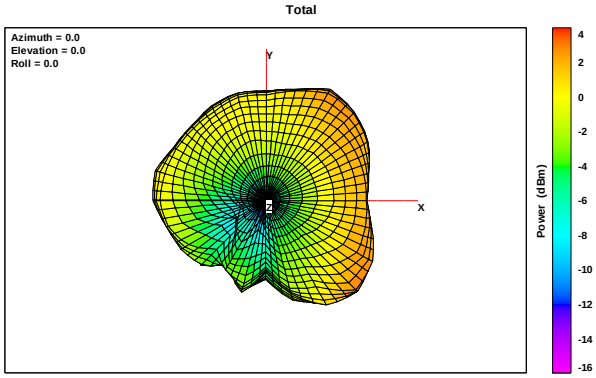
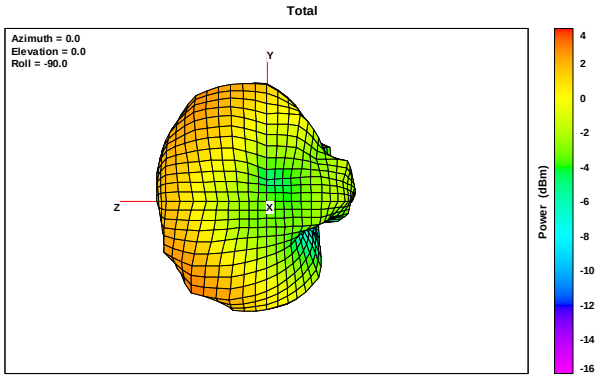
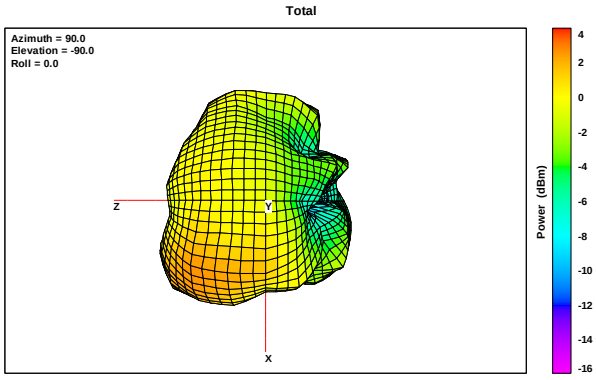
6.3.2 2450MHz







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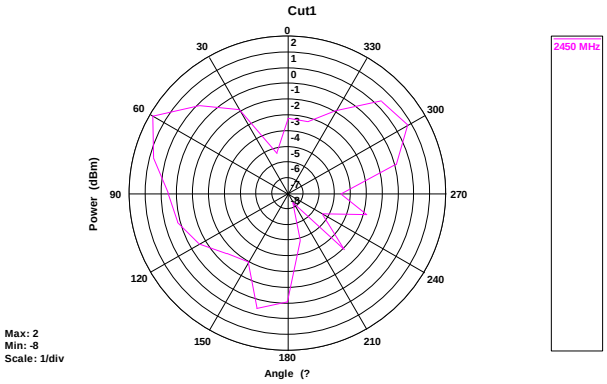

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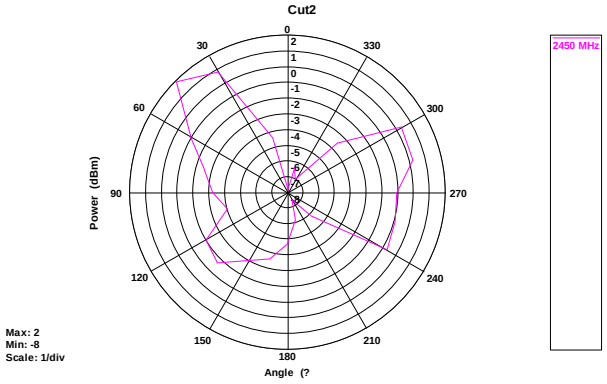

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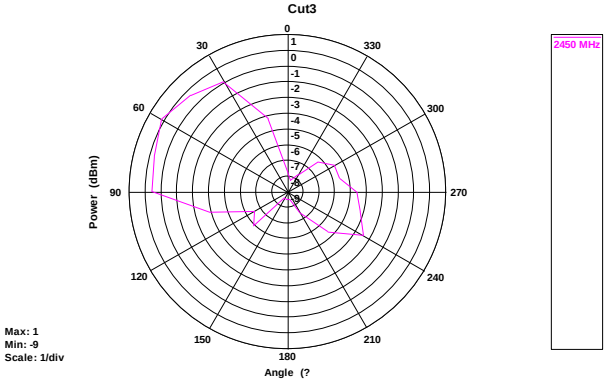

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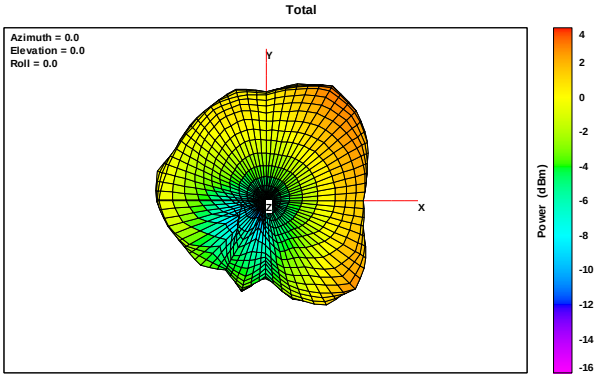
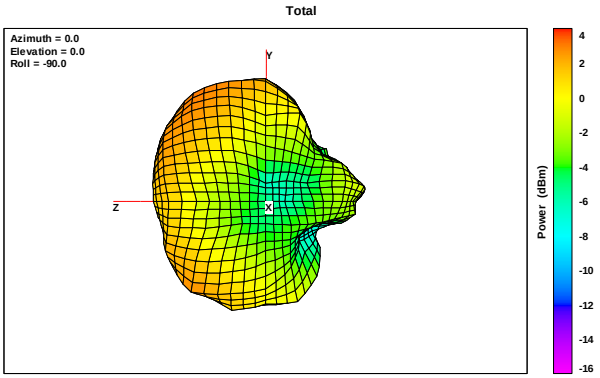
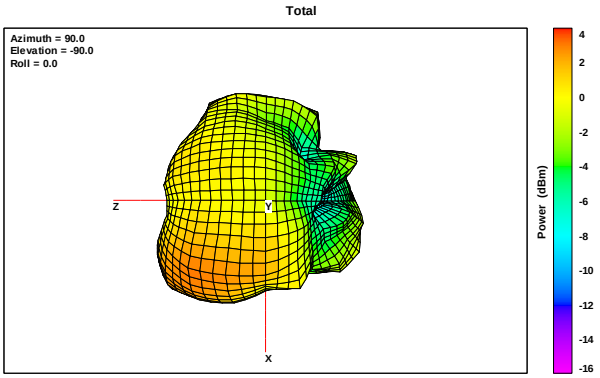
6.3.3 2500MHz







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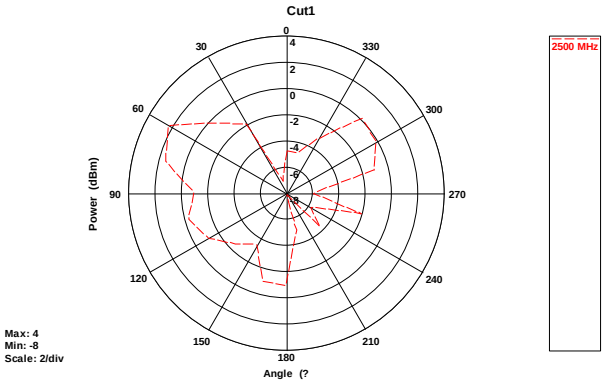

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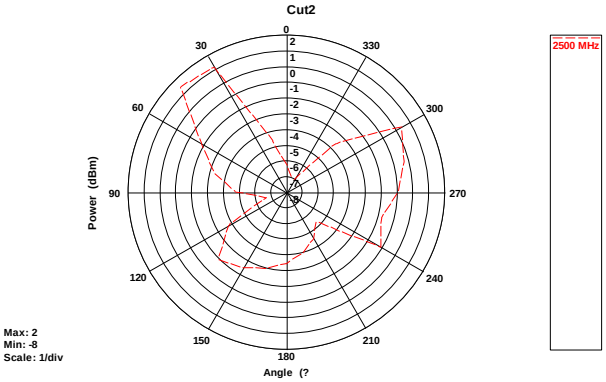

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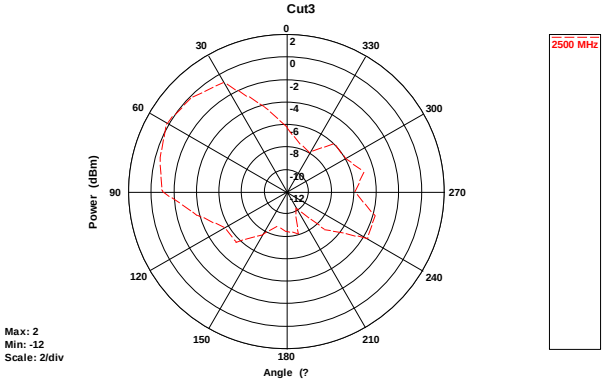

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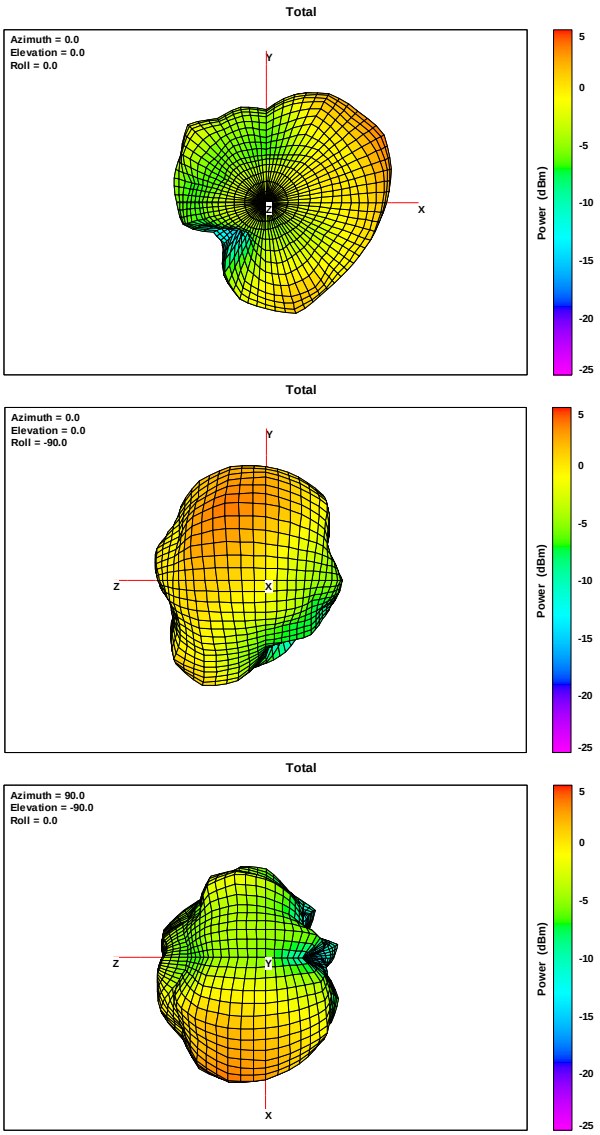
6.3.4 5150MHz



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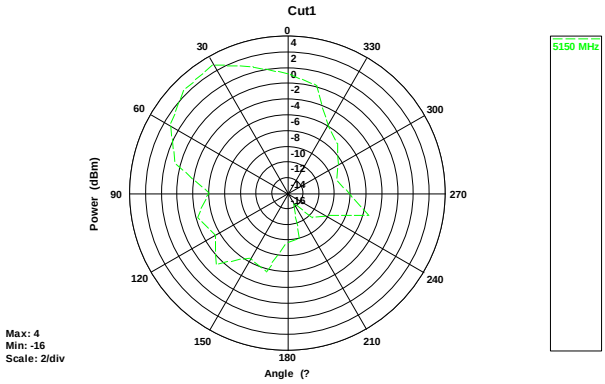

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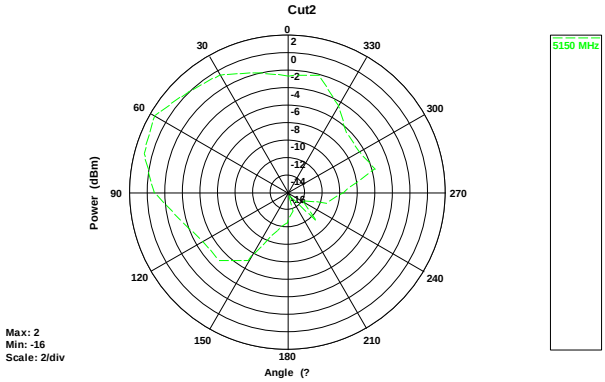

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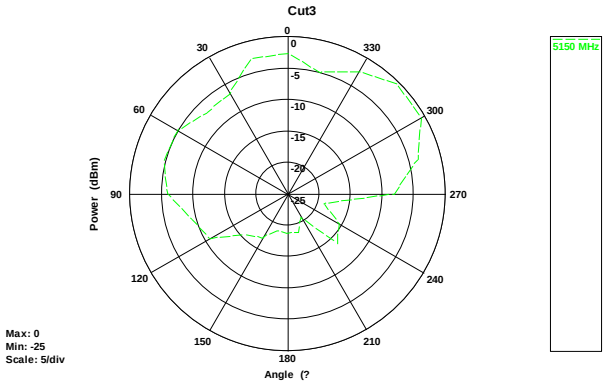

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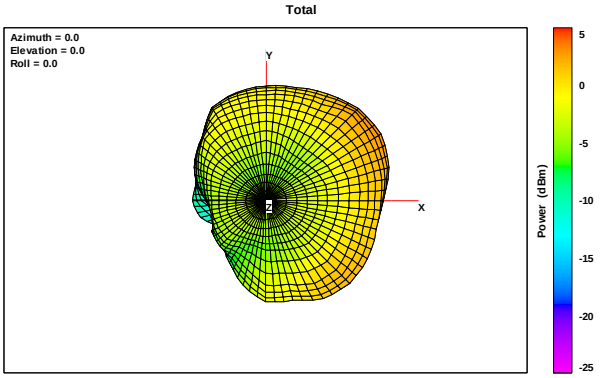
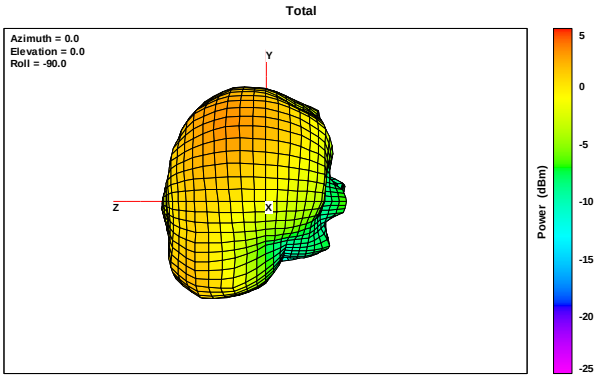
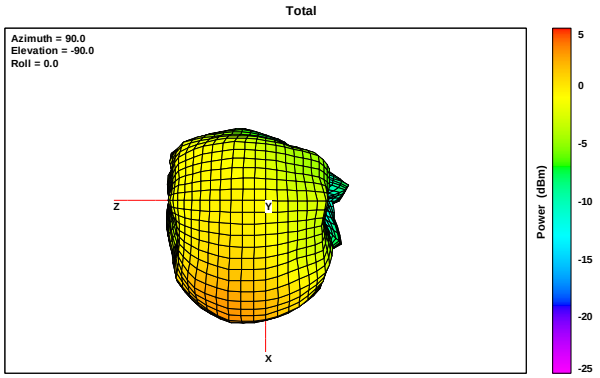
6.3.5 5990MHz







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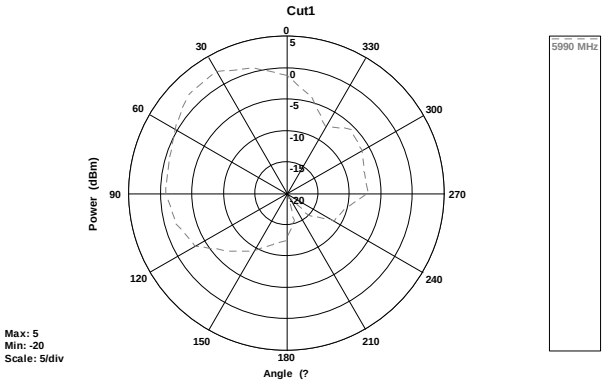

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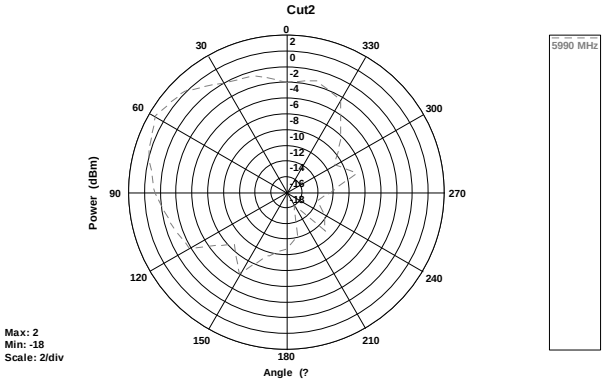

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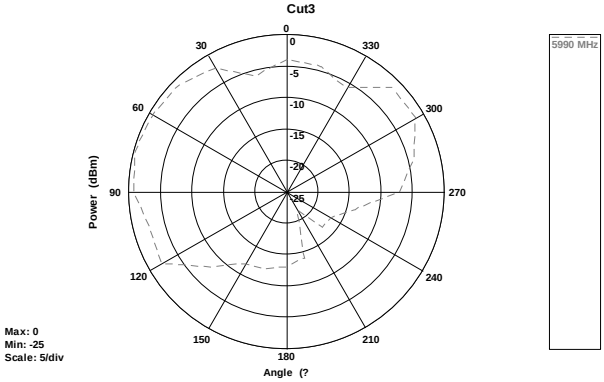

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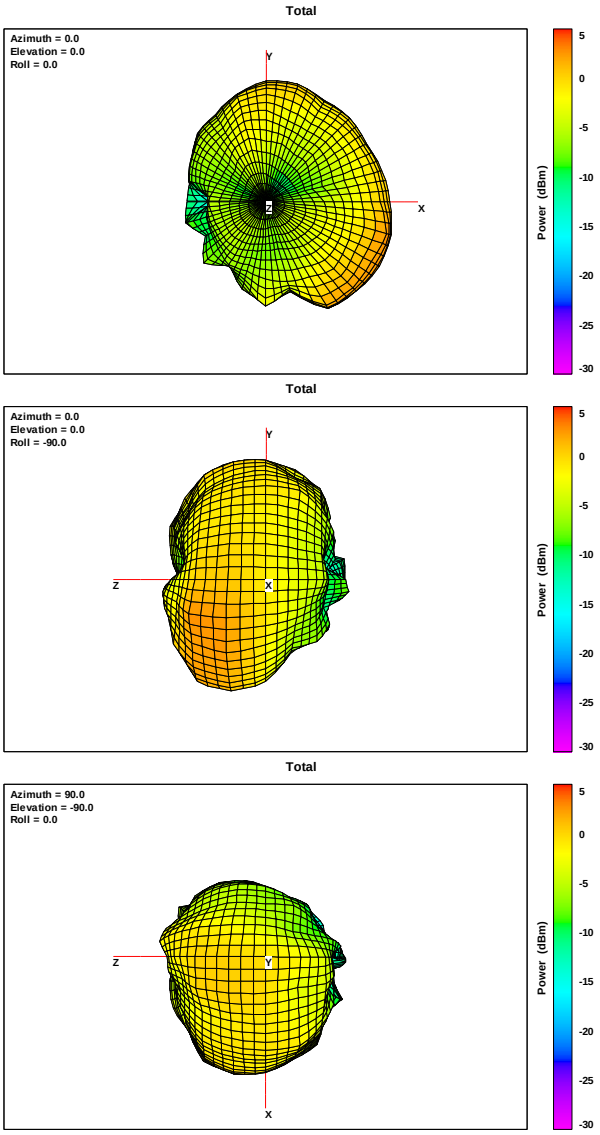
6.3.6 7125MHz



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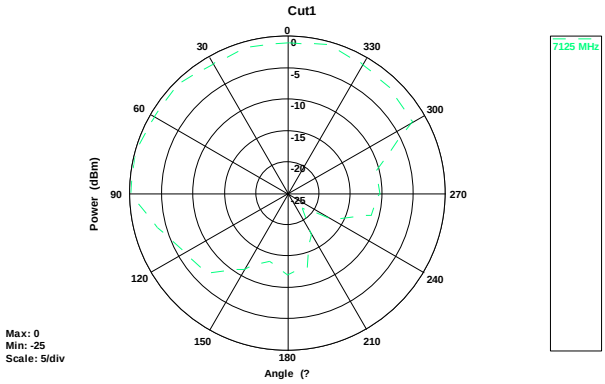

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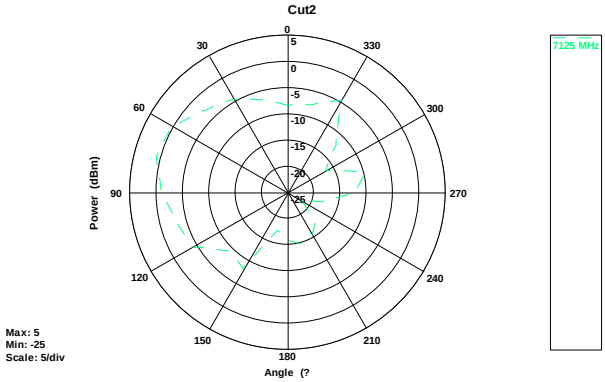

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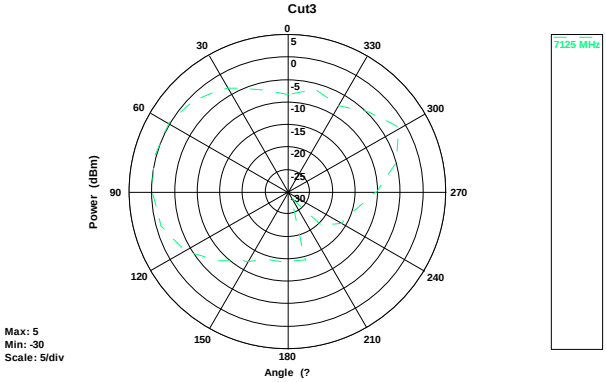

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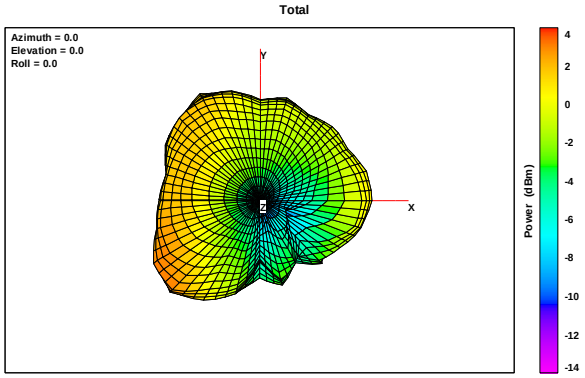
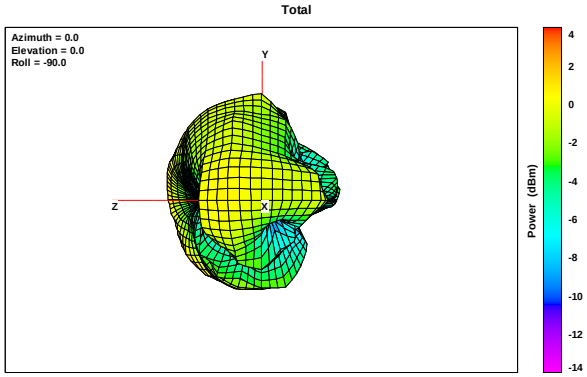
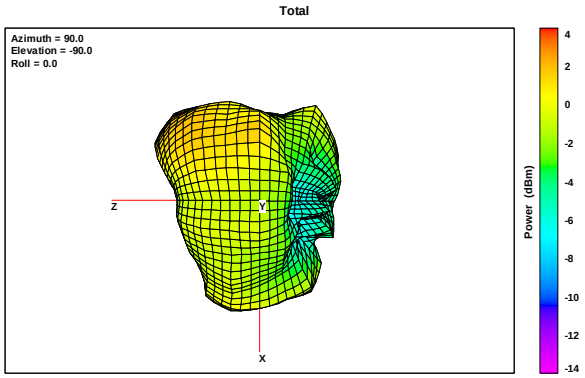
6.4 Wi-Fi 6 Antenna

6.4.1 2400MHz







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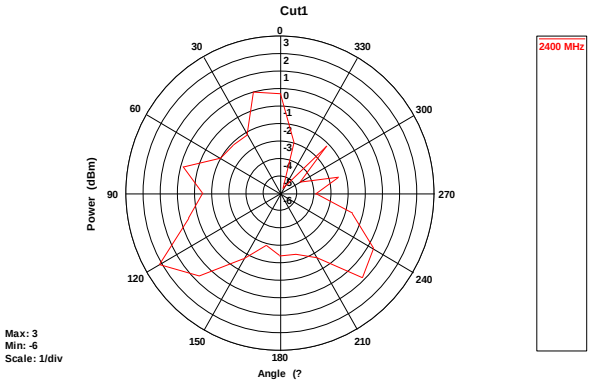

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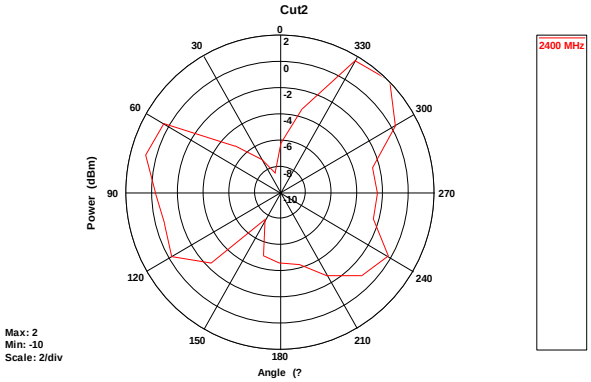

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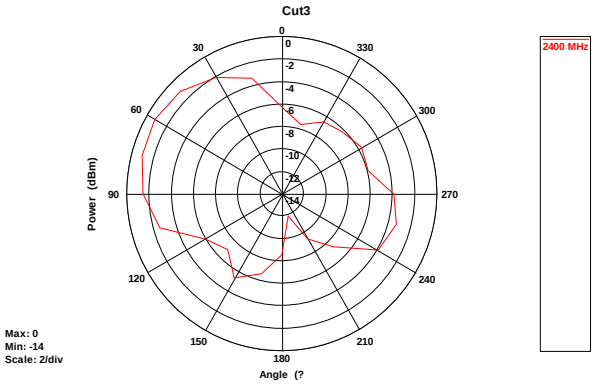

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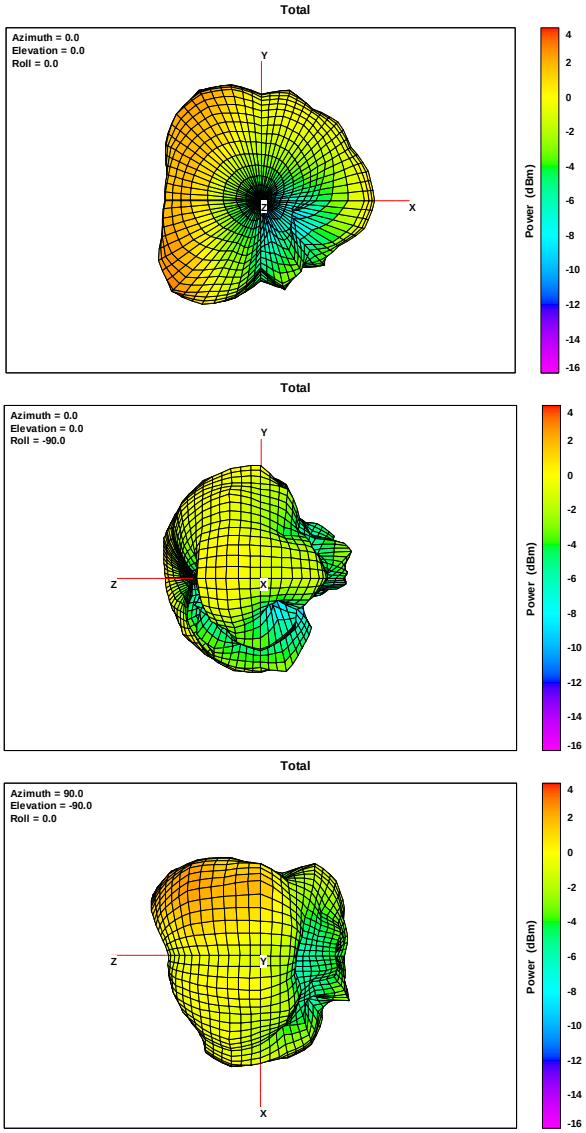
6.4.2 2450MHz



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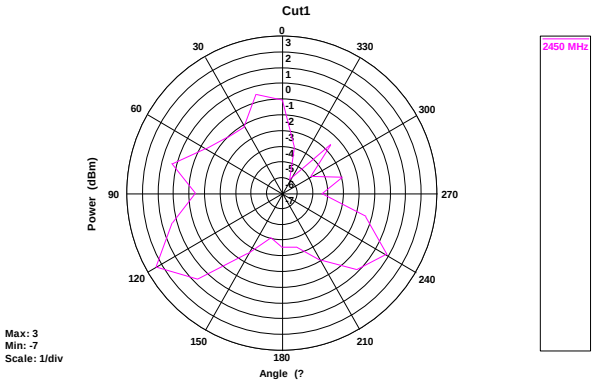

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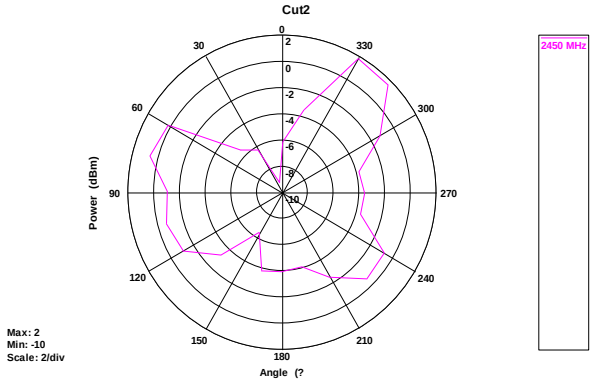

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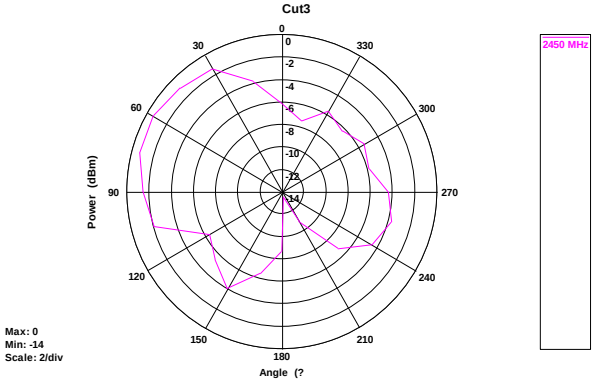

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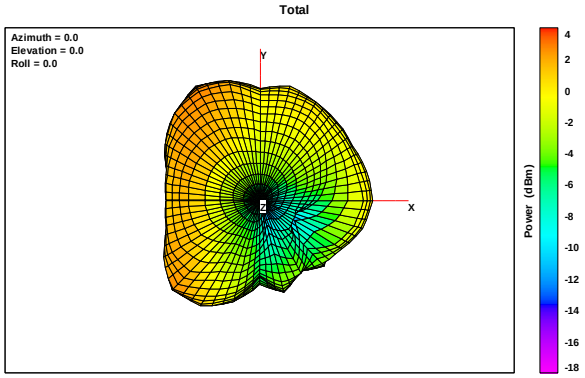
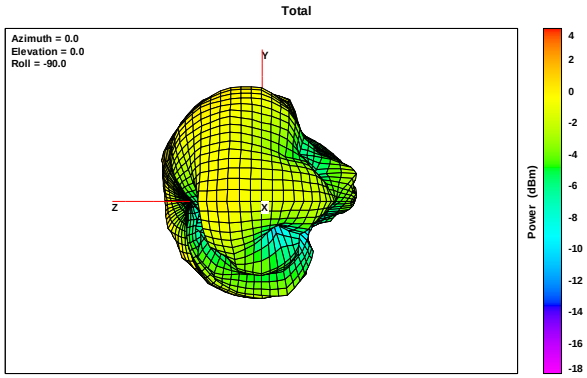
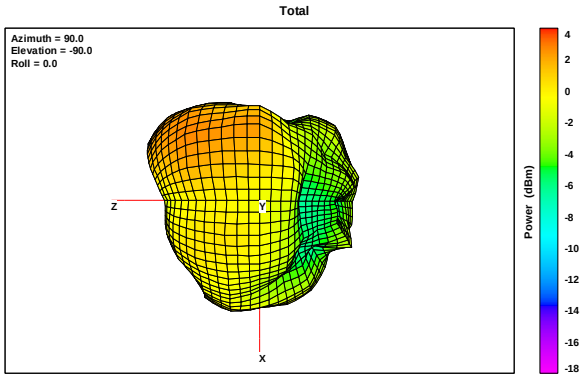
6.4.3 2500MHz







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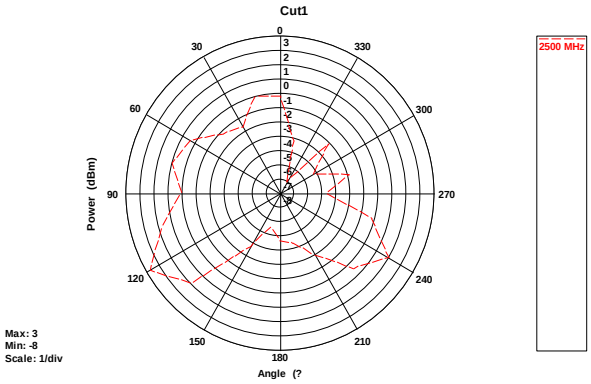

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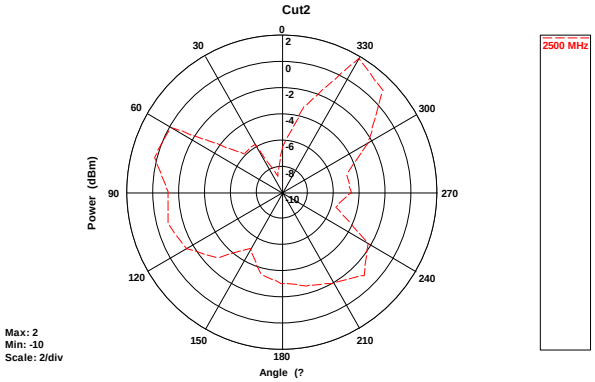

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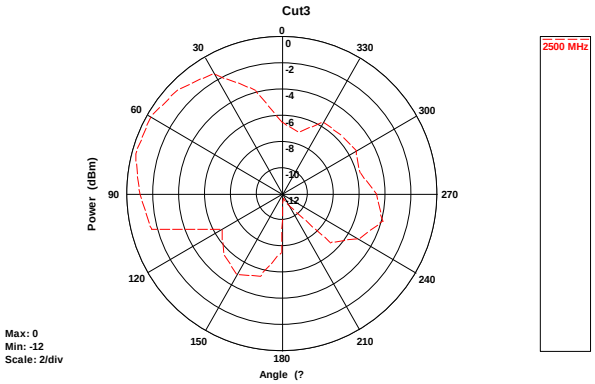

Phi=90

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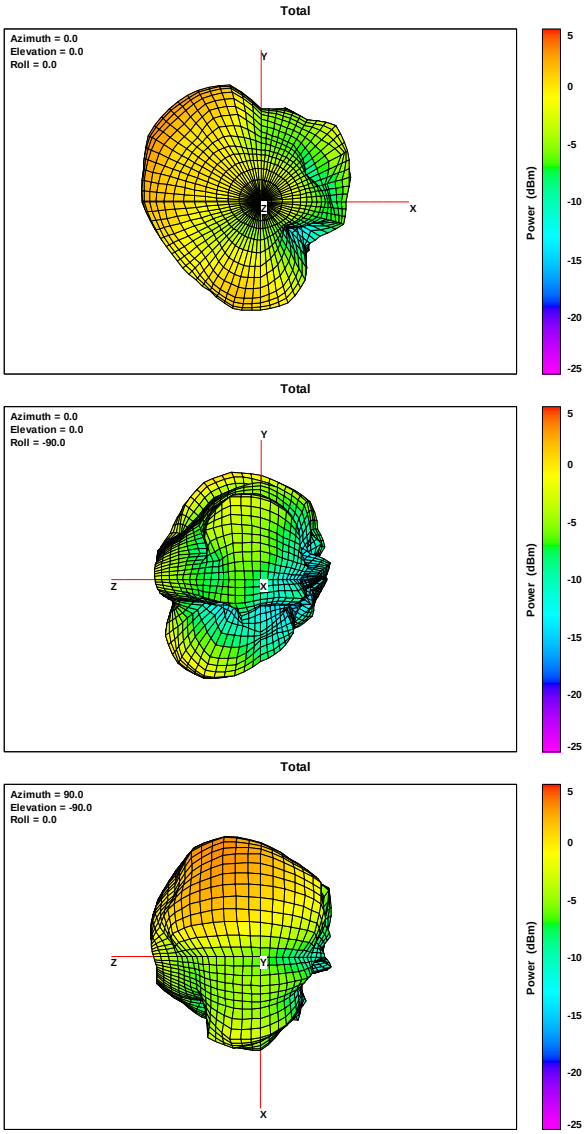
6.4.4 5150MHz



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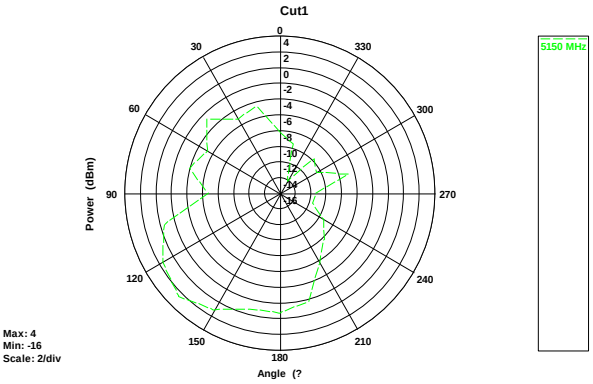

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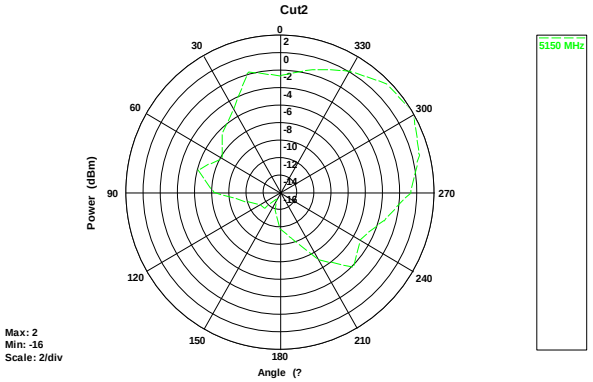

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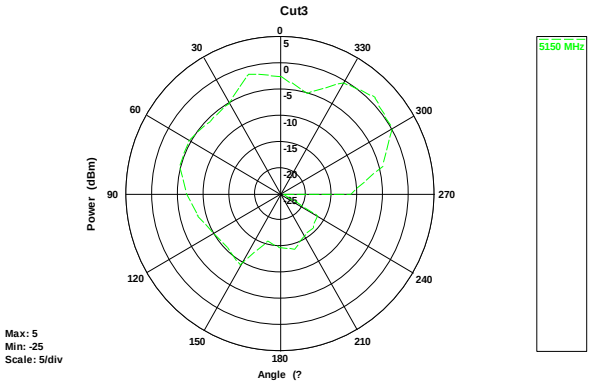

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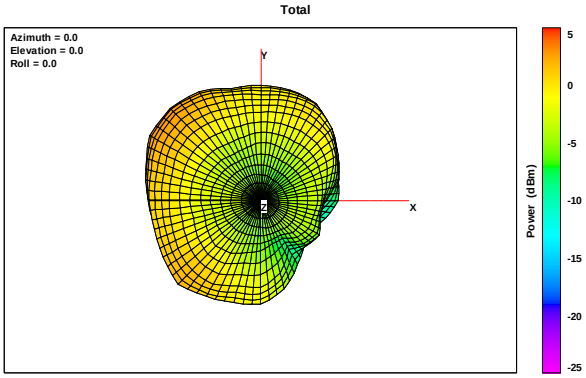
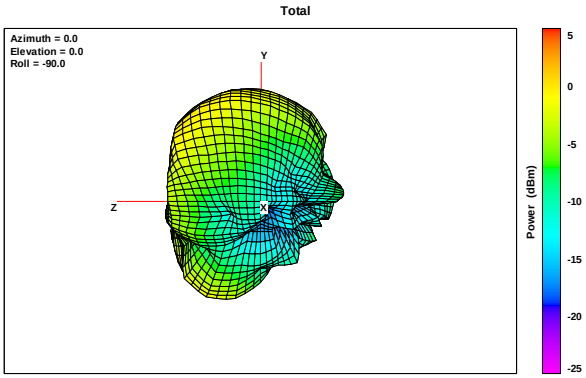
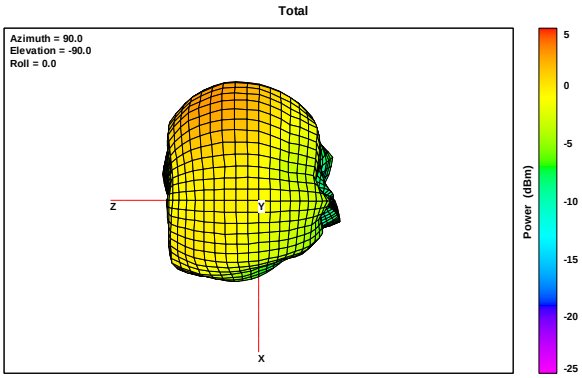
6.4.5 5990MHz







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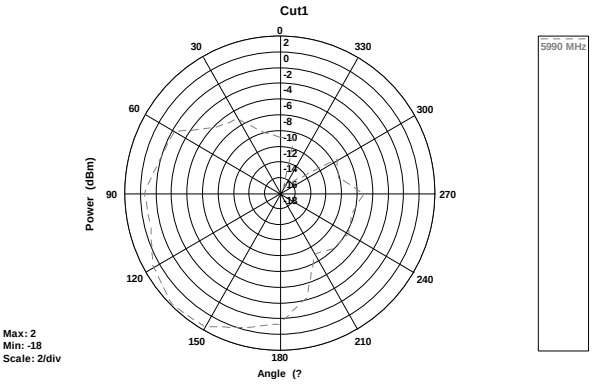

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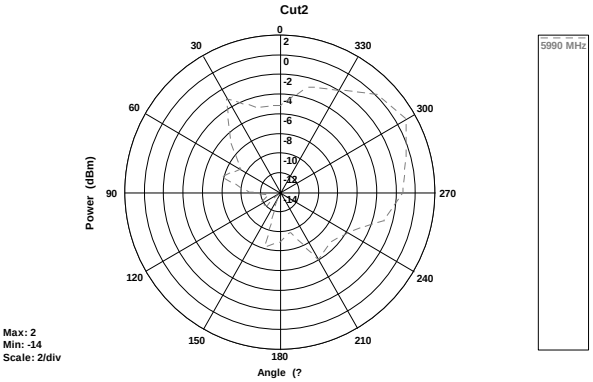

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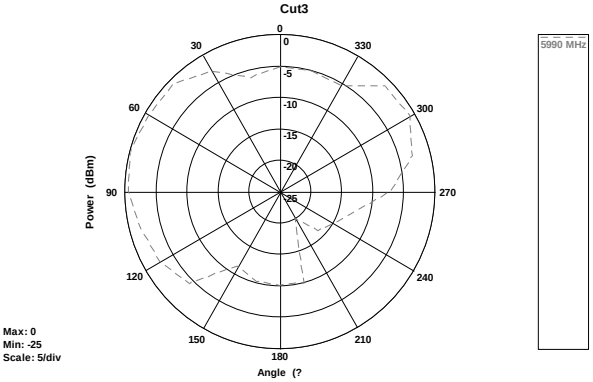

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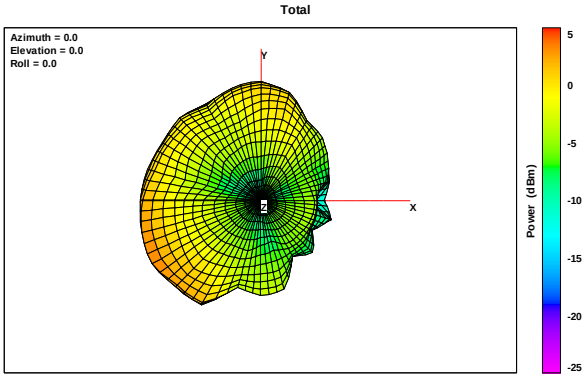
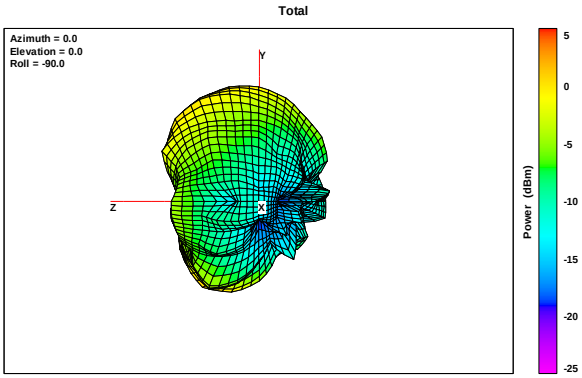
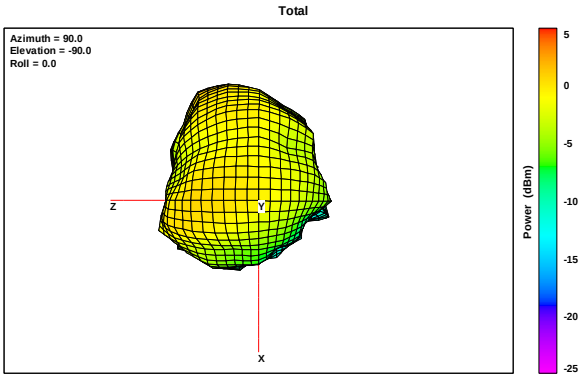
6.4.6 7125MHz







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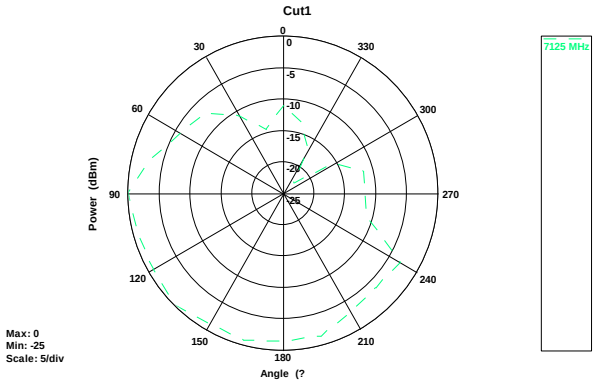
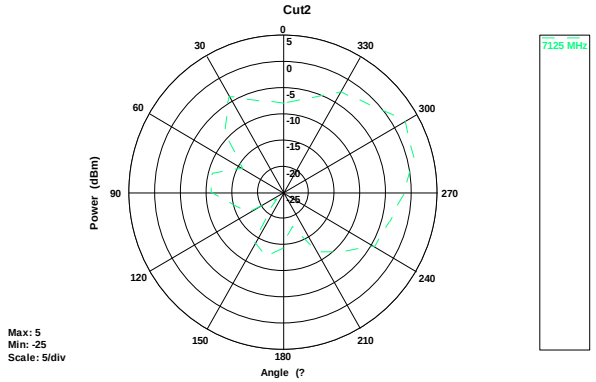
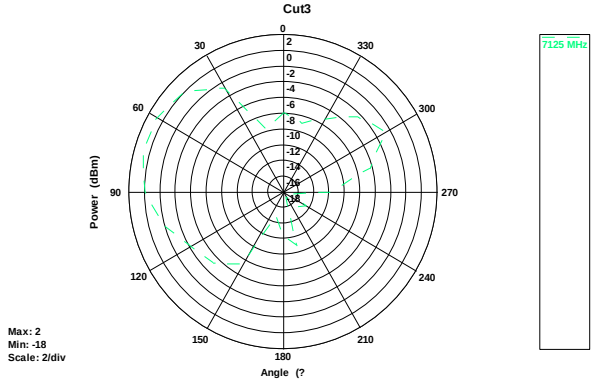


Theta=90°



Phi=0°



Phi=90

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7. EUT and Test Configuration

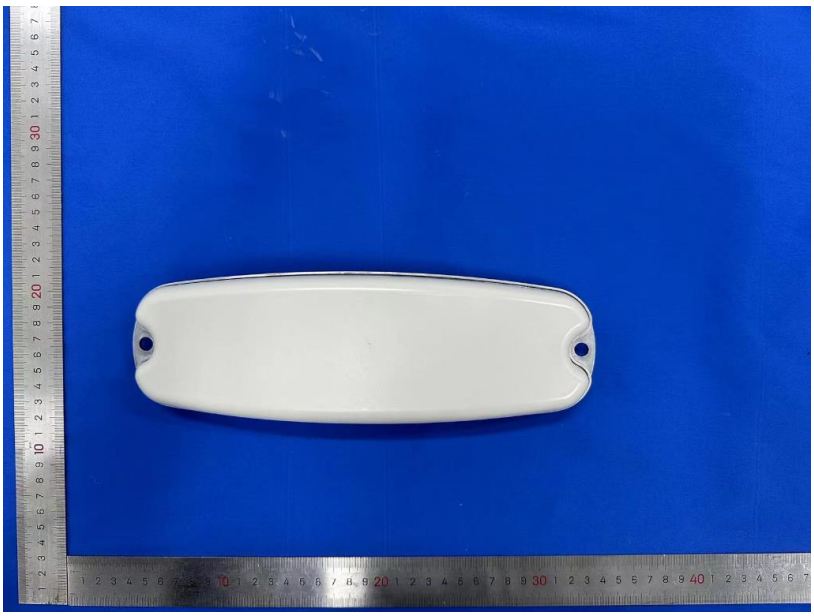

Photo of EUT

Photo of EUT

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Free Space View of EUT

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