



Antenna specification: 2.4G

Test equipment: Network analyzer, Dark room

Dark room temperature: 25 °

Test date: 2025/8/13

Test time: 10:40

Tester: Wang Yong Ya

manufacturer: Shelly Europe Ltd.

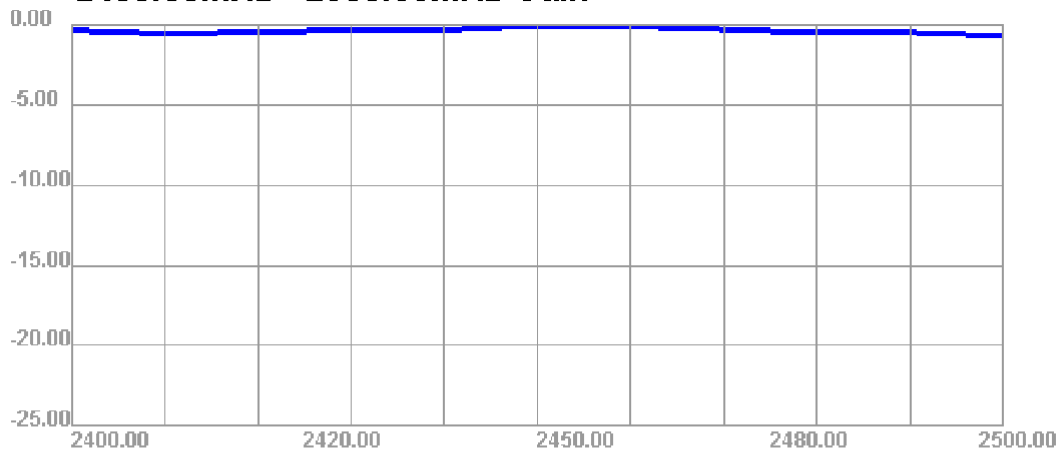
Address: 51 Cherni Vrah Blvd., building 3, floor 2 and 3, Lozenetz Region, Sofia 1407, Republic of Bulgaria

Passive Test For WIFI2.4

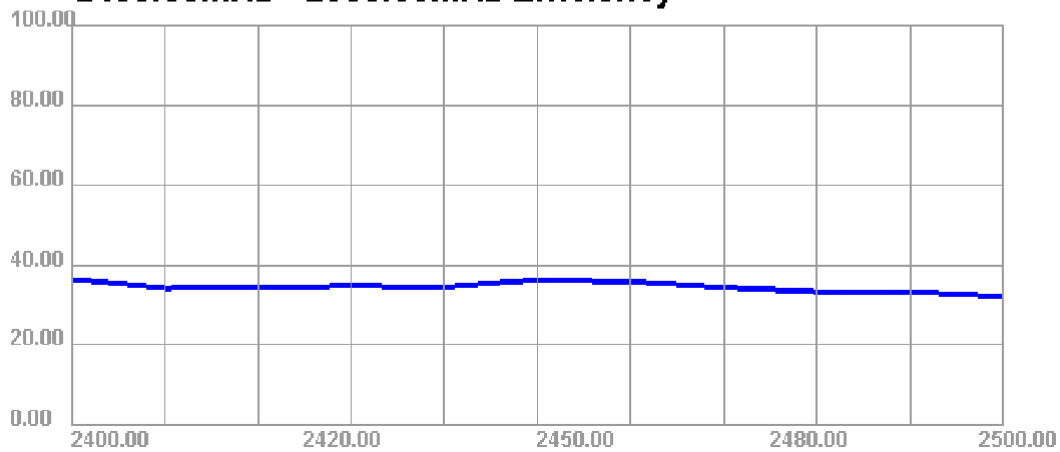
Freq	Effi	Effi	Gain	Gain	UHS	DHS	Max	Min	Direc	Beam	AttH	AttV
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)	tivity	width	(dB)	(dB)
2400	36.47	-4.38	-0.37	-2.52	14.766	21.707	-0.37	-15.25	4.01	30	49.48	48.9
2410	34.24	-4.65	-0.58	-2.73	13.713	20.526	-0.58	-16.25	4.07	30	49.62	49.04
2420	34.32	-4.64	-0.48	-2.63	13.604	20.717	-0.48	-16.97	4.17	30	49.46	48.9
2430	34.8	-4.58	-0.35	-2.5	13.706	21.091	-0.35	-17.89	4.24	30	49.48	48.93
2440	34.48	-4.62	-0.35	-2.5	13.599	20.882	-0.35	-19.24	4.27	30	49.55	49
2450	36.32	-4.4	-0.09	-2.24	14.343	21.973	-0.09	-20.75	4.31	30	49.79	49.24
2460	35.82	-4.46	-0.14	-2.29	14.162	21.656	-0.14	-22.13	4.32	30	49.79	49.22
2470	34.4	-4.63	-0.31	-2.46	13.607	20.792	-0.31	-23.65	4.33	30	49.66	49.1
2480	33.33	-4.77	-0.51	-2.66	13.219	20.109	-0.51	-24.04	4.26	30	49.76	49.19
2490	33.27	-4.78	-0.51	-2.66	13.175	20.099	-0.51	-23.2	4.27	60	49.87	49.3
2500	32.14	-4.93	-0.72	-2.87	12.642	19.501	-0.72	-23.1	4.21	60	49.83	49.28

2410MHZ-2500MHZ: Efficiency:36.89%-45.49%, Gain:-0.09~-0.72dBi

2400.00MHz - 2500.00MHz Gain

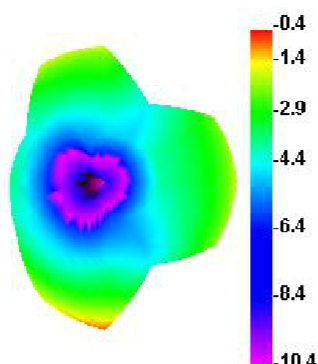


2400.00MHz - 2500.00MHz Efficiency

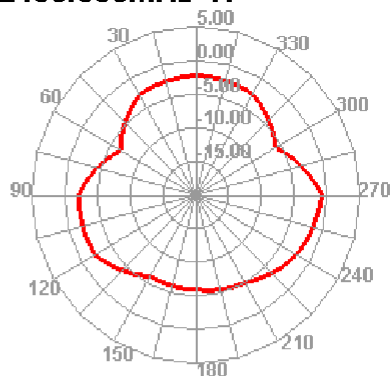


E1-XZ plane E2-YZ plane H-XY plane

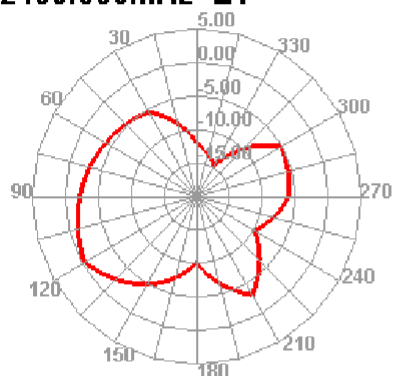
2400.000MHz



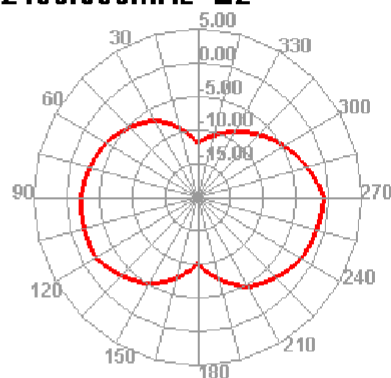
2400.000MHz H



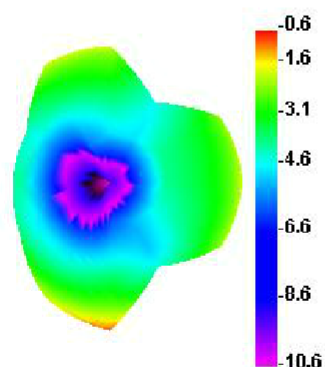
2400.000MHz E1



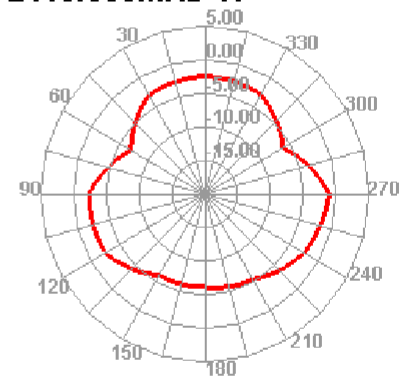
2400.000MHz E2



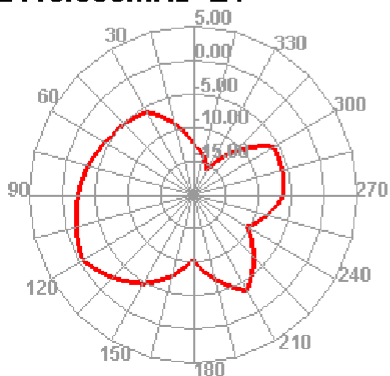
2410.000MHz



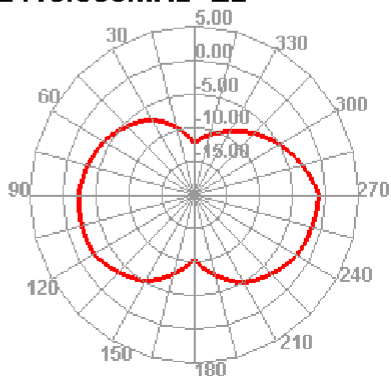
2410.000MHz H



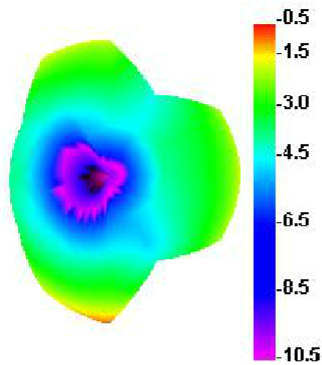
2410.000MHz E1



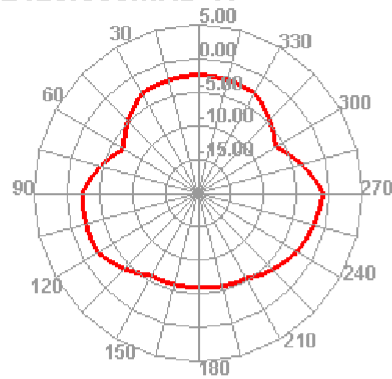
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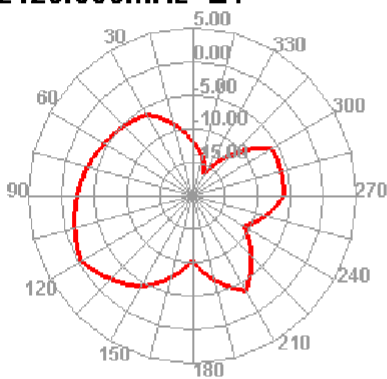
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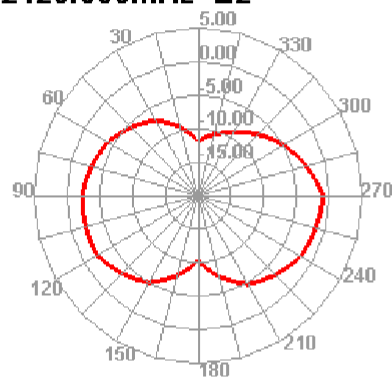
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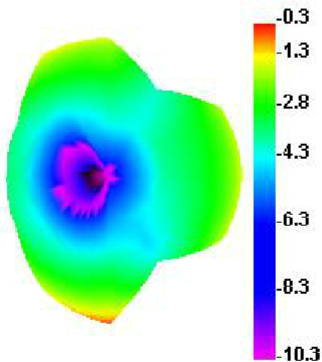
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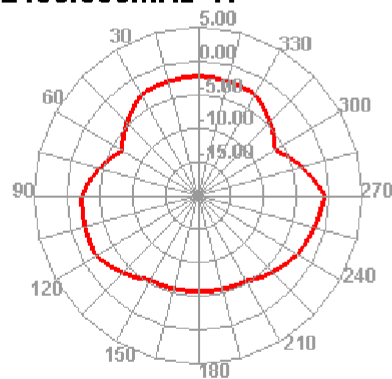
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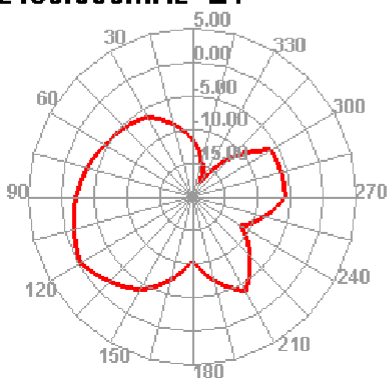
2430.000MHz



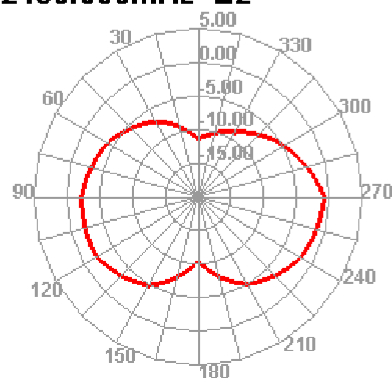
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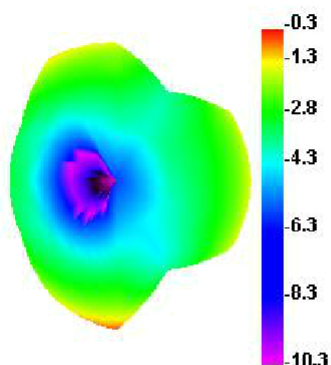
2430.000MHz E1



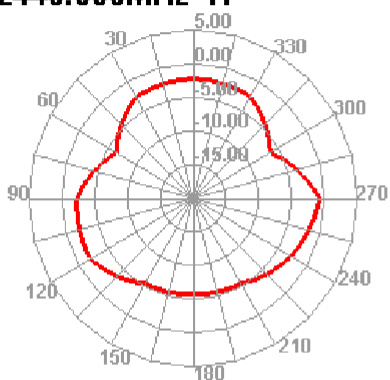
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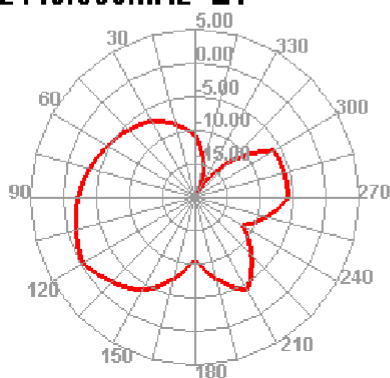
2440.000MHz



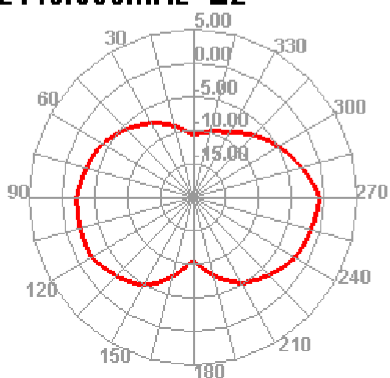
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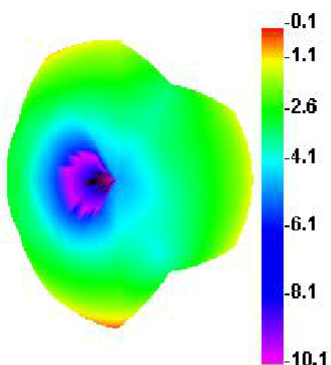
2440.000MHz E1



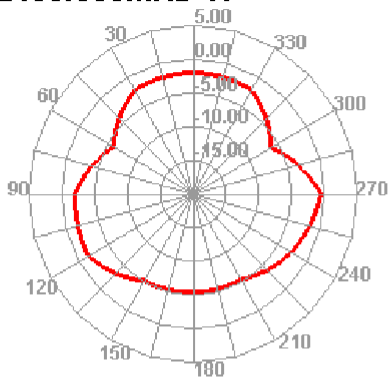
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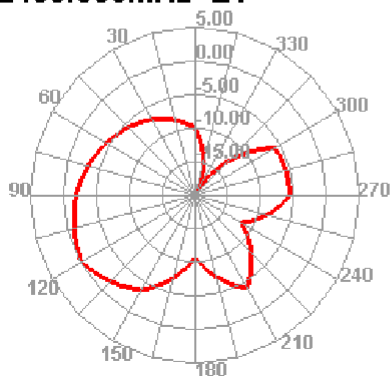
2450.000MHz



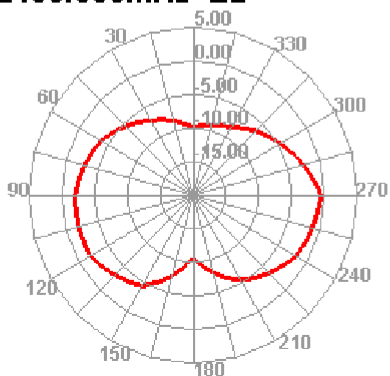
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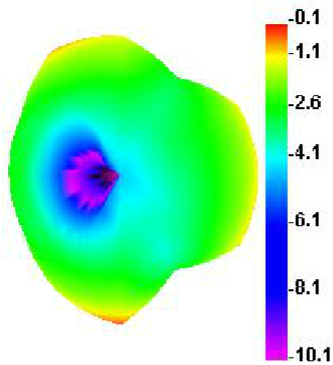
2450.000MHz E1



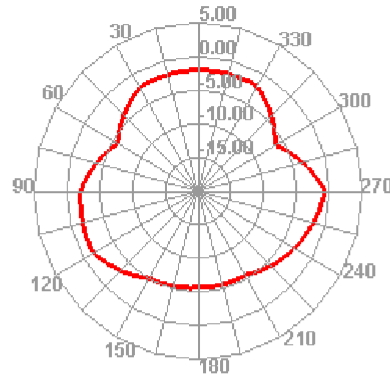
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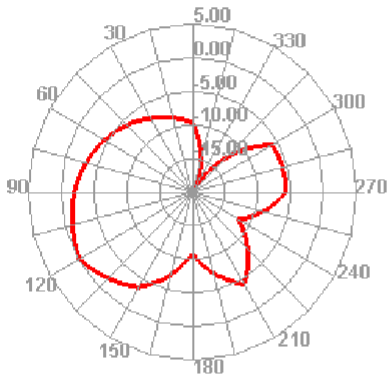
2460.000MHz



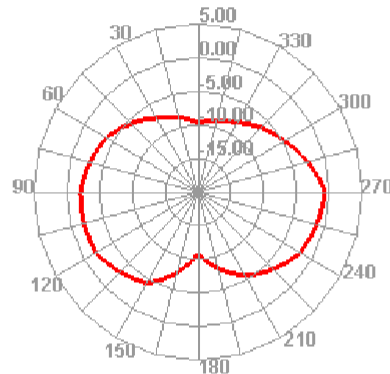
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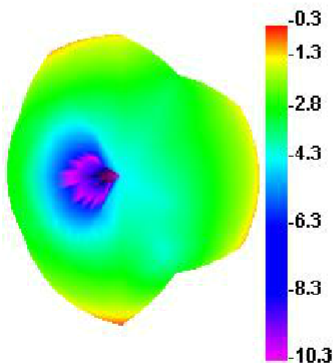
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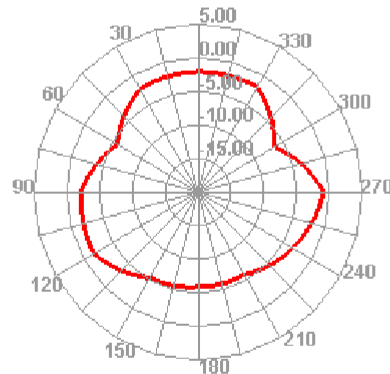
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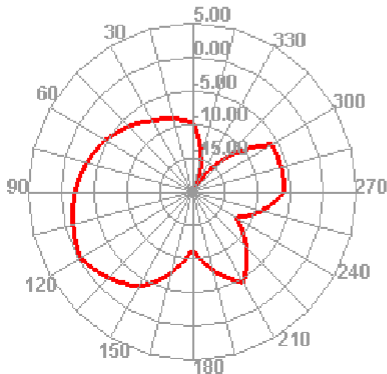
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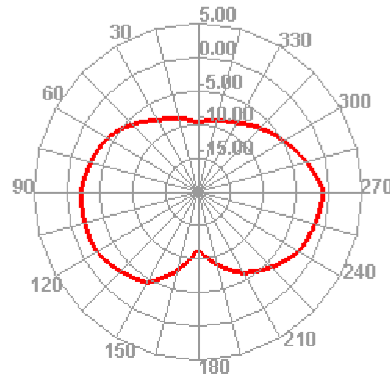
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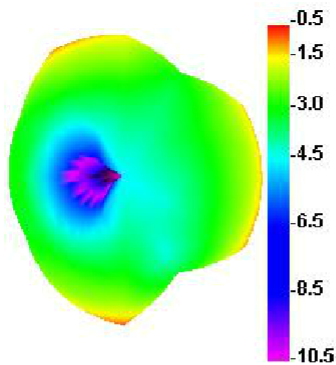
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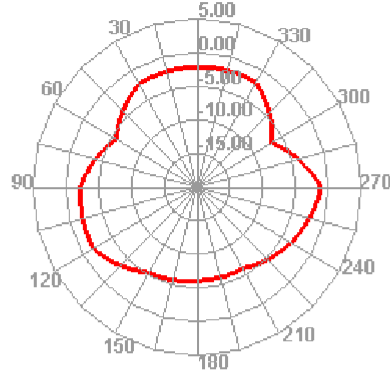
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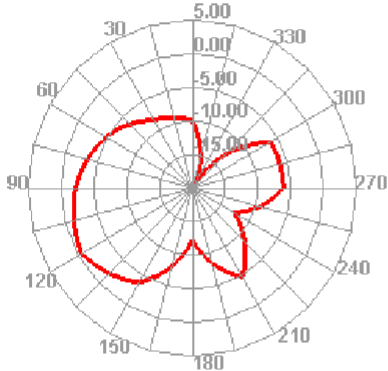
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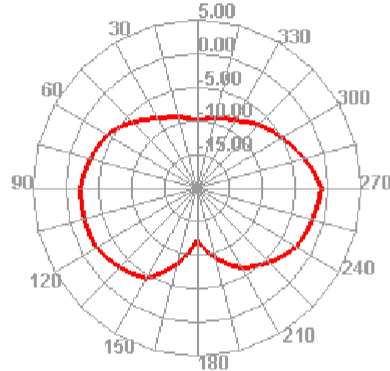
2480.000MHz H



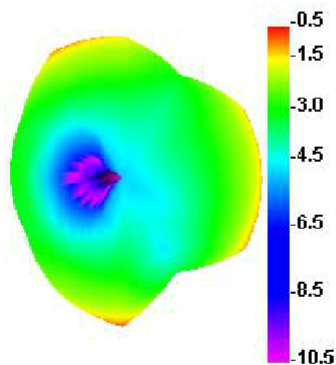
2480.000MHz E1



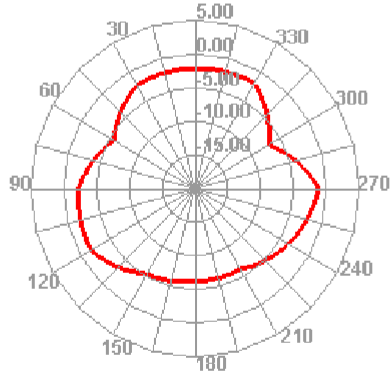
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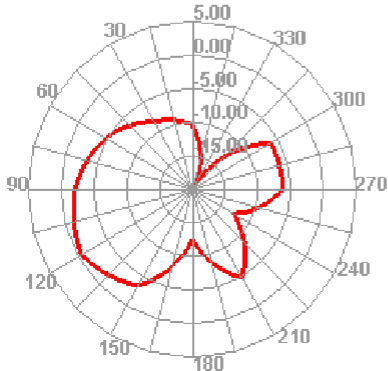
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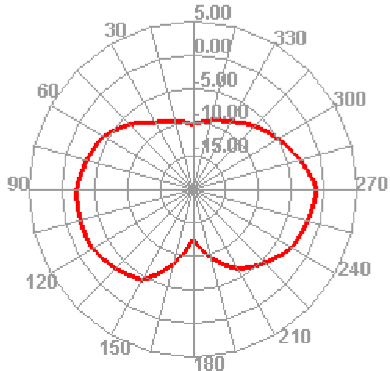
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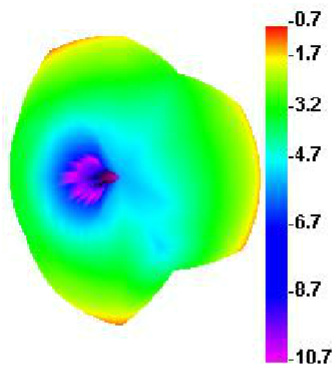
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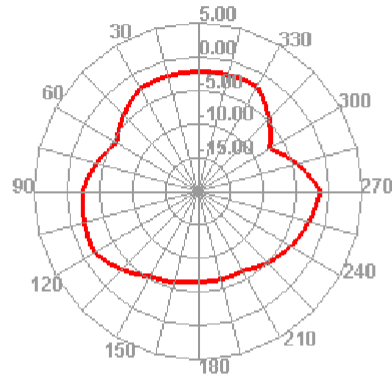
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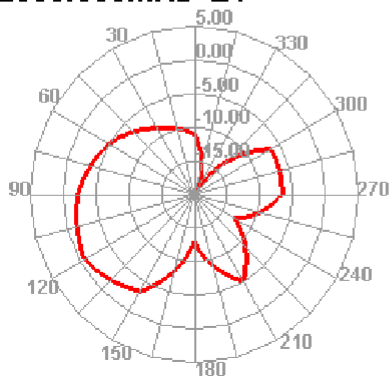
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

