



Antenna Test Report

Customer : DEVIALET

Project : ED002

Product : Bluetooth Antenna

Date 20220922



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Test Setup for Radiation Pattern Measurement



Equipment	Brand	Module Type
Network Analyzer	keysight	5071c (100K-8.5G)
Signal Generator	R&S	CMW500
Signal Generator	Agilent	E4438C
3D Anechoic chamber	General Test	RayZone 2800



1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1: S22 SWR 1.000/ Ref 1.000 [F1]

Point	Frequency (GHz)	SWR
1	2.400000	2.2182
2	2.450000	1.1550
3	2.485000	2.3213

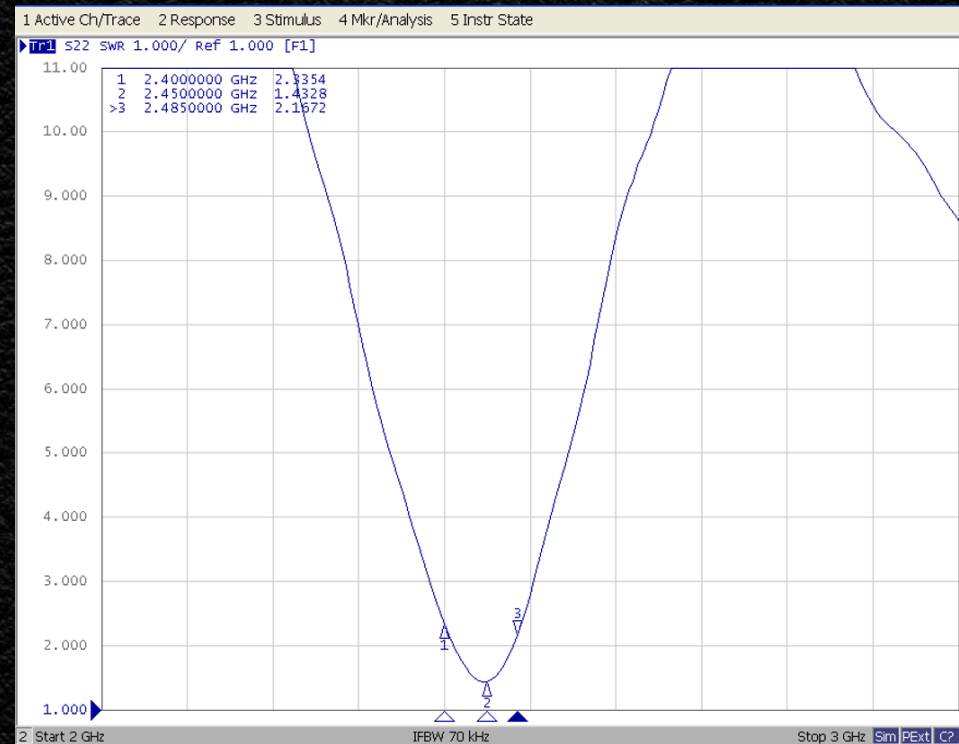
2 Start 2 GHz IFBW 70 kHz Stop 3 GHz Sim PEExt C

	Frequency (MHz)	2400	2450	2500
L	VSWR	2.2	1.1	2.3



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VSWR Results



	Frequency (MHz)	2400	2450	2500
R	VSWR	2.3	1.4	2.1



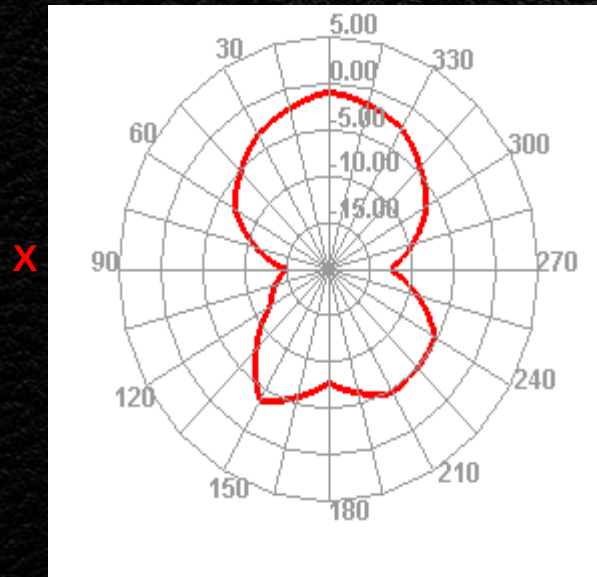
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2D Radiation Pattern Results

L @ 2450MHz

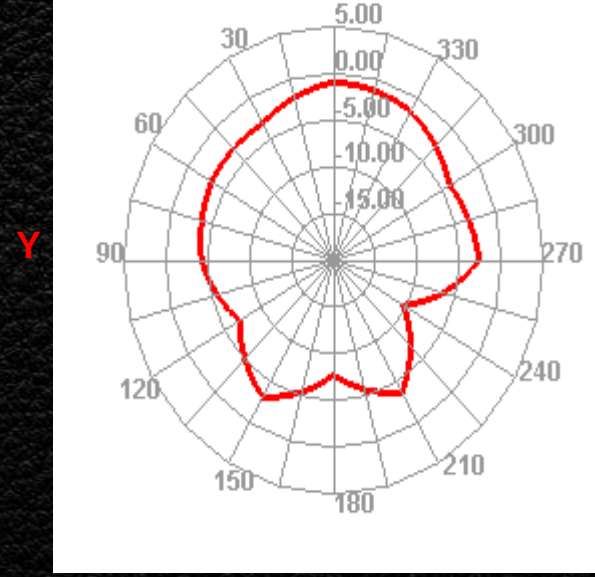
XZ-plane

Z



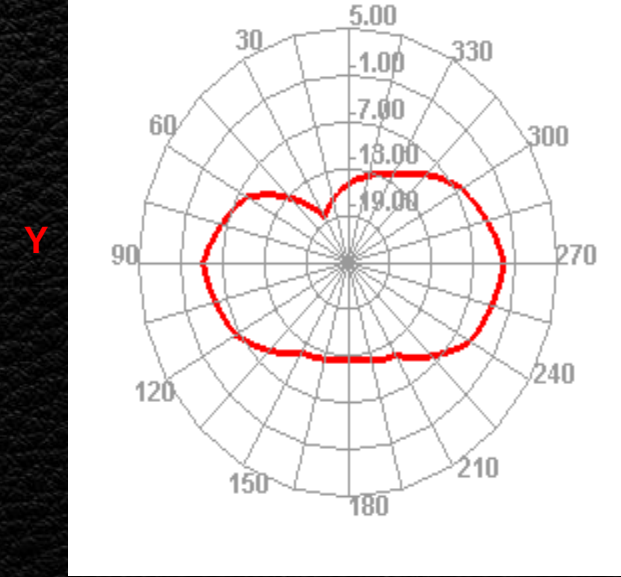
YZ-plane

Z



XY-plane

X





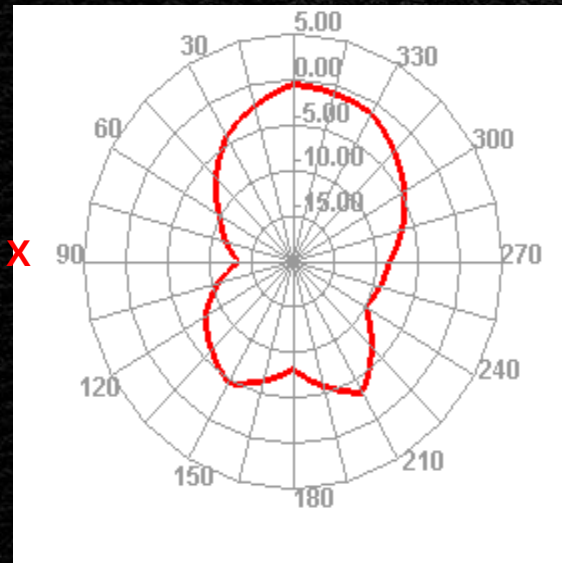
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2D Radiation Pattern Results

R @ 2450MHz

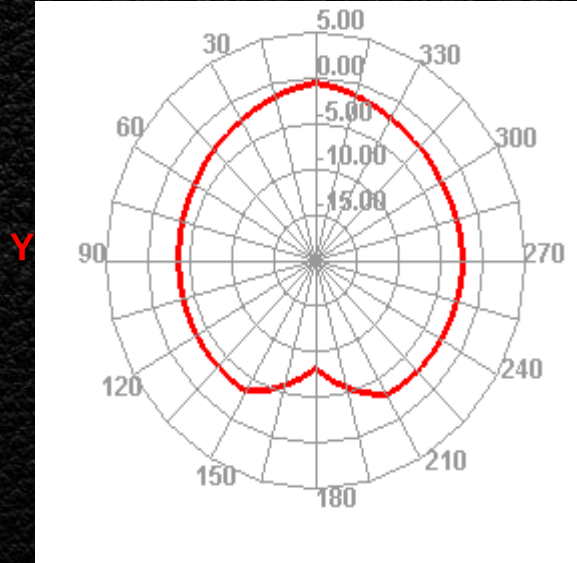
XZ-plane

Z



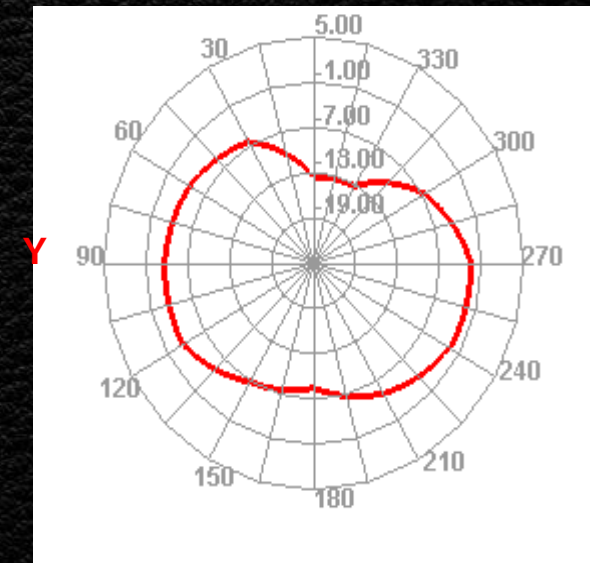
YZ-plane

Z



XY-plane

X



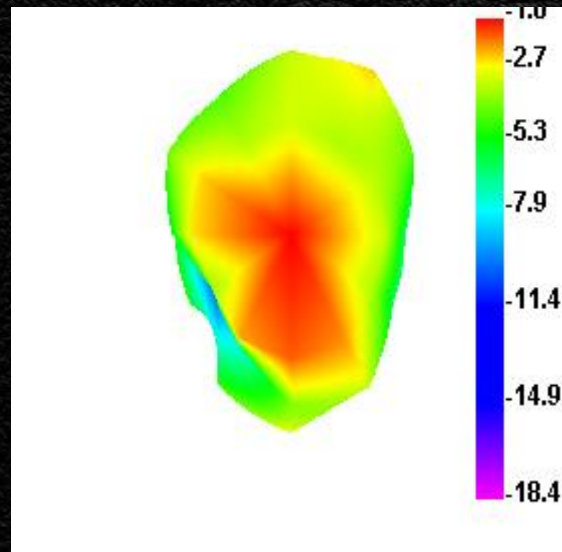


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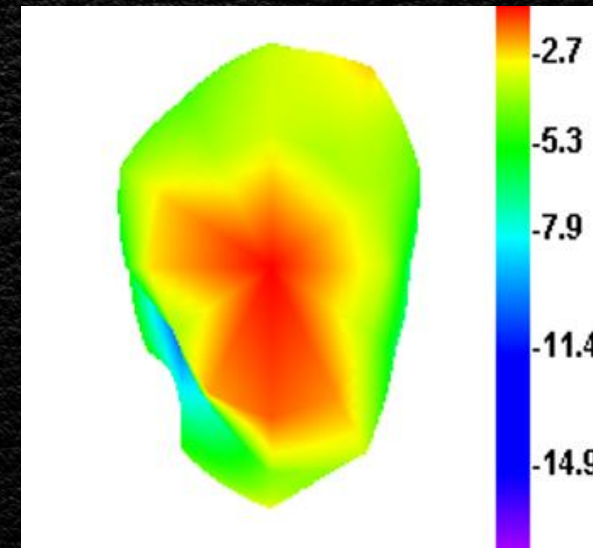
3D Radiation Pattern Results

L & R @2450MHz

L



R





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Results Summary

Gain & Efficiency

Frequency (MHz)	L		R	
	Peak Gain (dBi)	Efficiency (%)	Peak Gain (dBi)	Efficiency (%)
2400	-2.98	26.79	-2.71	27.54
2410	-2.94	27.23	-2.6	28.55
2420	-2.97	27.1	-2.7	28.29
2430	-2.96	27.19	-2.76	27.54
2440	-2.9	27.61	-2.77	27.81
2450	-2.85	27.44	-2.76	27.84
2460	-2.73	27.92	-2.74	27.78
2470	-2.60	28.12	-2.73	28.07
2480	-2.64	28.15	-2.78	27.95
2490	-2.66	28.01	-2.87	27.15
2500	-2.68	27.95	-2.91	26.64



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ANT picture



L



R



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THANK YOU !

