

DEVIALET

INGÉNIERIE ACOUSTIQUE DE FRANCE

Datasheet

Customer	Address:	Devialet 10 place Vendôme 75001 Paris, France
Equipment	Project name: Product part n°: Product description:	PHOENIX Simple Antenna Phoenix V102 WL1 antenna
Name:		

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1. Component description

Project: PHOENIX			
	Antenna	Cable spec	Connector
Type	PIFA Antenna	UFL-UFL 1.37mm cable	UFL
Brand	DEVIALET	DEVIALET	HIROSE
Model	Simple Antenna Phoenix V102	N0F6AA	U.FL-R-SMT-110
Dimensions (mm)	26 x 10 x 1.6	90 x 1.37	NA
2.4 GHz Gain (dBi)	4.2		
5GHz Gain (dBi)	6.2		

2. Electrical specification

Item	Specification
Working Frequency Range	2.4-2.5GHz and 5.1-5.9GHz
Return Loss	< -10dB
VSWR	< 2:1
Polarization	Linear
Radiation Pattern	Omnidirectional
Impedance	50Ω
Operation Temperature	-40 to +85°C

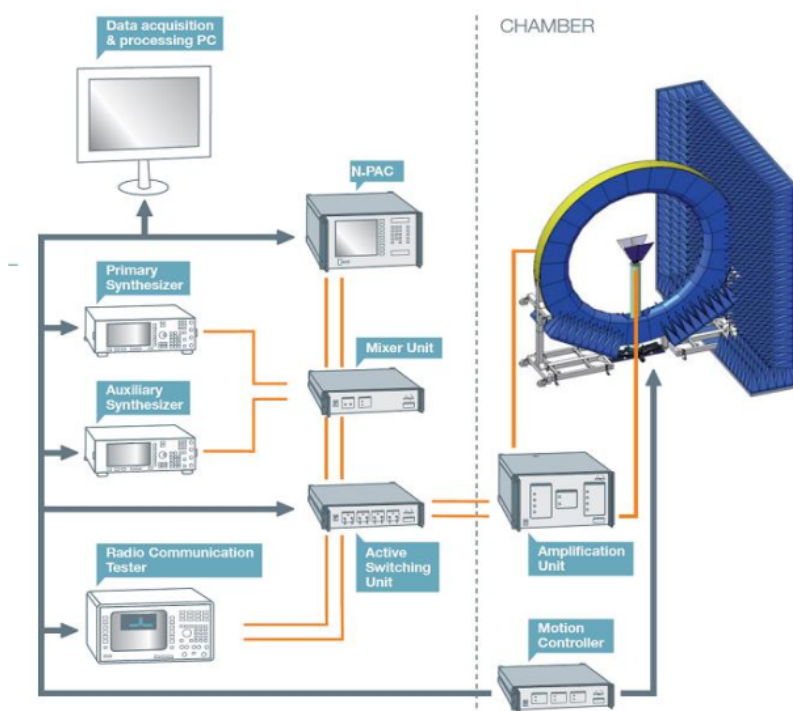
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3. Equipment of test system



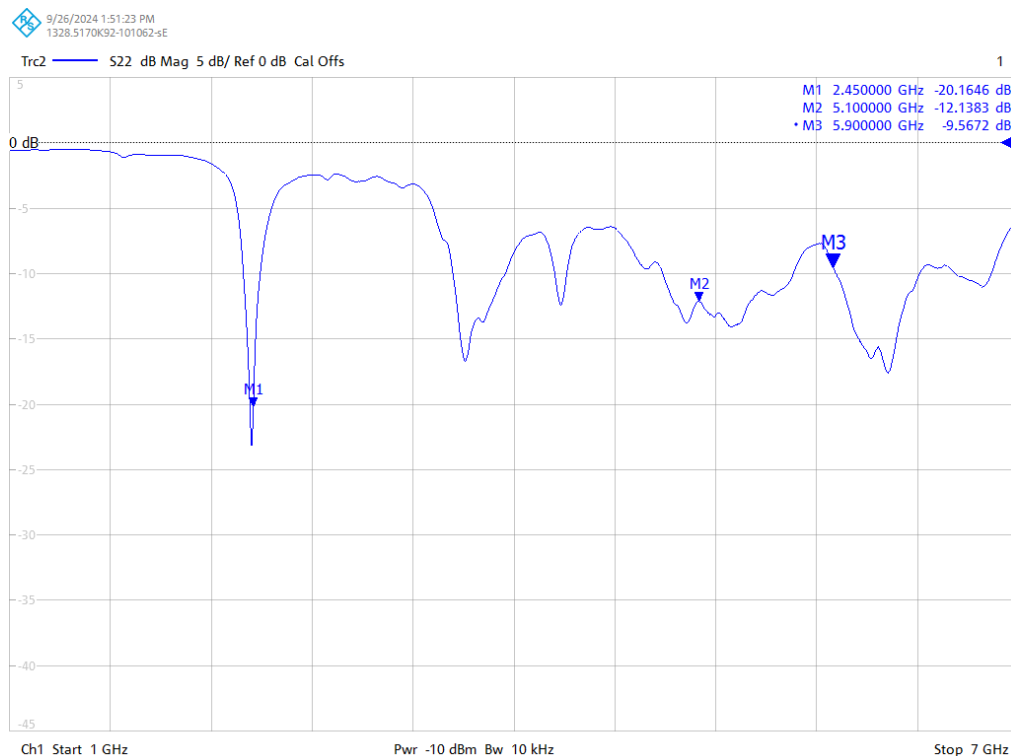
Equipment Description	Manufacturer	Identification N°	Current calibration date	Next calibration date	Calibration report or certificate references	Reference of calibration
SG 64	MVG	SAT 2000 sn#0013	01/07/2023	01/07/2024	CR.207.1.23.PAR. A SG64 Calibration Report	Calibrated by MVG according Internal Method
Anechoic chamber	MVG	SAT 2000 sn#0013	01/07/2023	01/07/2024	CR.207.1.23.PAR. A SG64 Calibration Report	Calibrated by MVG according Internal Method
Primary Synthesizer 83712B	Agilent	US37101179	2023/10/30	2024/10/30	CV20231030-006	Calibrated by accredited Lab ABN Métrologie
Auxiliary Synthesizer 83712B	Agilent	US37101195	2023/10/30	2024/10/30	CV20231030-007	Calibrated by accredited Lab ABN Métrologie
Horn Antenna	MVG	SH400 sn#00020	2018/05/08	08/05/2024 (Checked every 3 months)	ACR.128.01.18.SA TU.B	Calibrated by accredited Lab MVG US according 17025
Horn Antenna	MVG	SH2000 sn#00077	2018/05/07	08/05/2024 (Checked every 3 months)	ACR.127.02.18.SA TU.B	Calibrated by accredited Lab MVG US according 17025

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6. Measurement results

a. Return loss



b. Efficiency

Frequency (GHz)	Efficiency (%)
2.45	56.8
5.25	44.9
5.50	41.5
5.75	38.1

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c. 2D radiation patterns

Linear Polarization (dBi)		XY-plane Theta=90.00°	YZ-plane Phi=90.00°	ZX-plane Phi=0.00°
2450 MHz	MAX.	0.95	2.46	0.88
	AVE.	-3.60	-2.76	-3.23
5250 MHz	MAX.	0.90	5.68	-1.56
	AVE.	-4.74	-1.61	-8.47
5500 MHz	MAX.	-0.80	3.71	0.35
	AVE.	-6.37	-3.11	-5.06
5750 MHz	MAX.	-1.30	1.40	1.94
	AVE.	-7.29	-4.42	-2.99

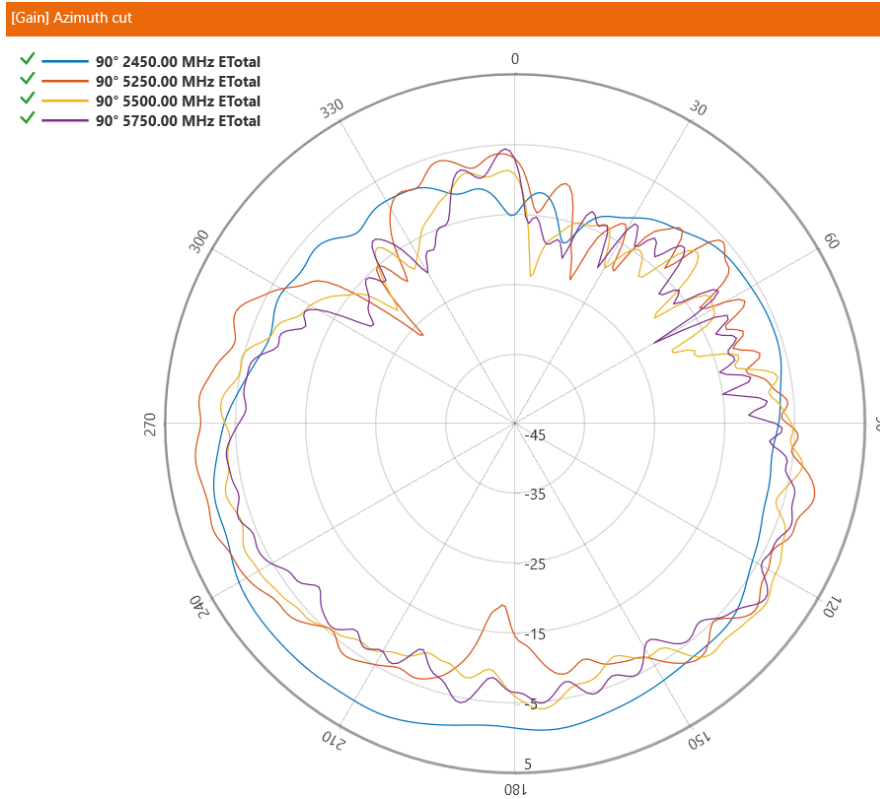
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XY-Plane - Theta=90.00°



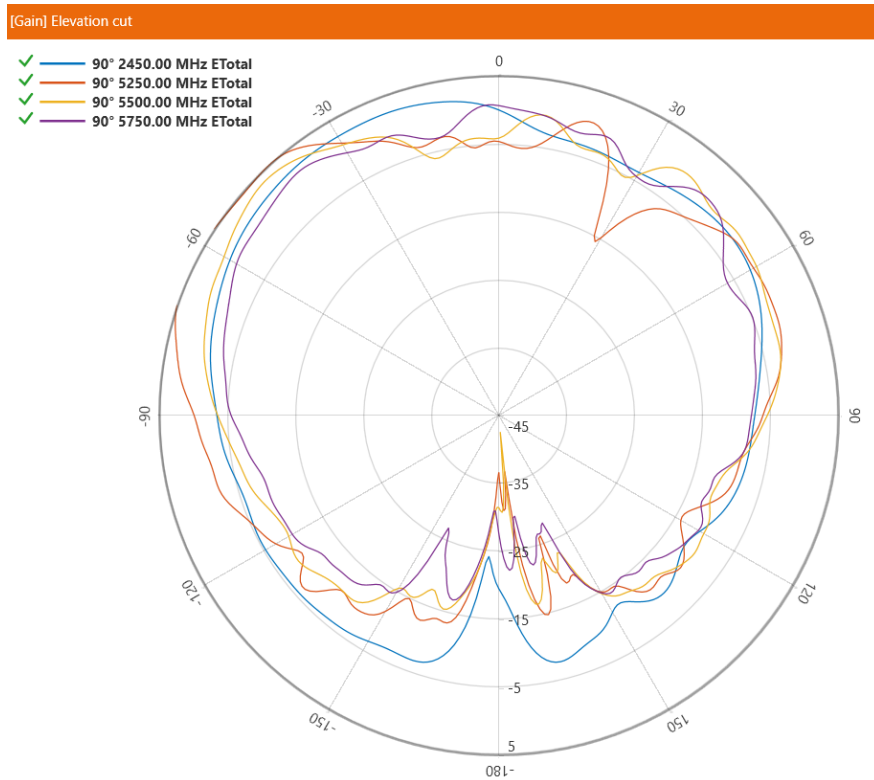
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YZ-Plane - $\Phi=90.00^\circ$



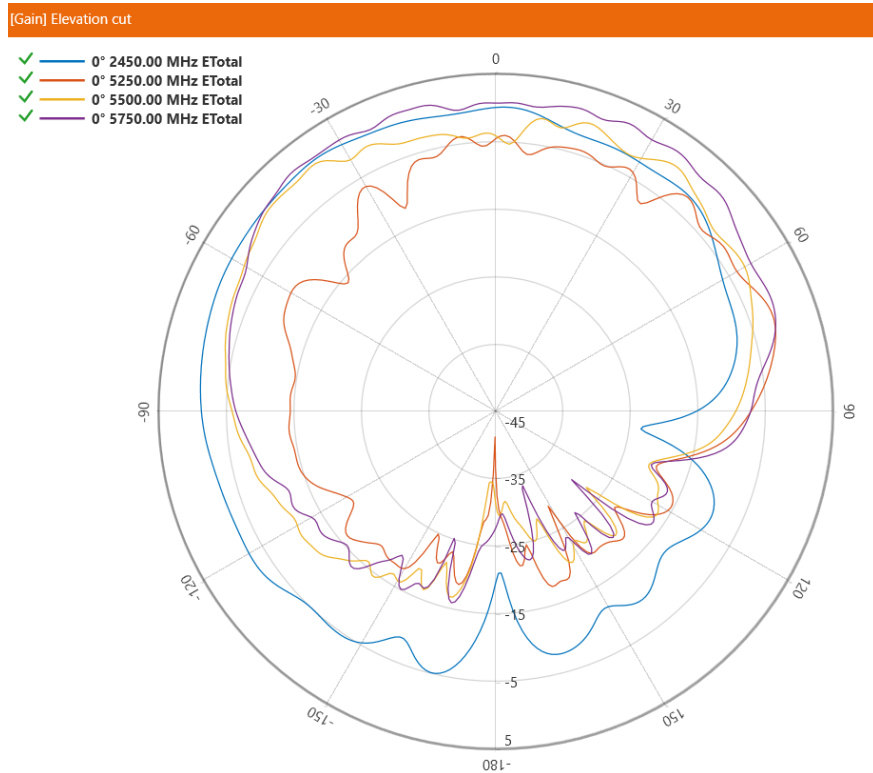
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ZX-Plane - $\Phi=0.00^\circ$



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