

DEVIALET

INGÉNIERIE ACOUSTIQUE DE FRANCE

Datasheet

Customer	Name:	Devialet
	Address:	10 place Vendôme 75001 Paris, France
Equipment	Project name:	PALMA
	Product part n°:	Dual Antenna PALMA v103
	Product description:	BT antenna

Table of Content

1. Component description	2
2. Electrical specification	2
3. Equipment of test system	3
4. Pictures of the measurement environment	3
5. DUT Appearance	3
6. Measurement results	3
a. Return loss	3
b. Efficiency	4
c. 2D radiation patterns	4

DEVIALET

HQ : 10, place Vendôme – 75001 Paris
RCS Paris n°502.155.682

DEVIALET

INGÉNIERIE ACOUSTIQUE DE FRANCE

1. Component description

Project: PALMA			
	Antenna	Cable spec	Connector
Type	Folded Monopole Antenna	UFL-UFL 1.37mm cable	UFL
Brand	DEVIALET	DEVIALET	HIROSE
Model	Dual Antenna PALMA v103 BT	N0EBB5	U.FL-R-SMT-110
Dimensions (mm)	50 x 45 x 1.6	65 x 1.37	NA
2.4 GHz Gain (dBi)	5		

2. Electrical specification

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

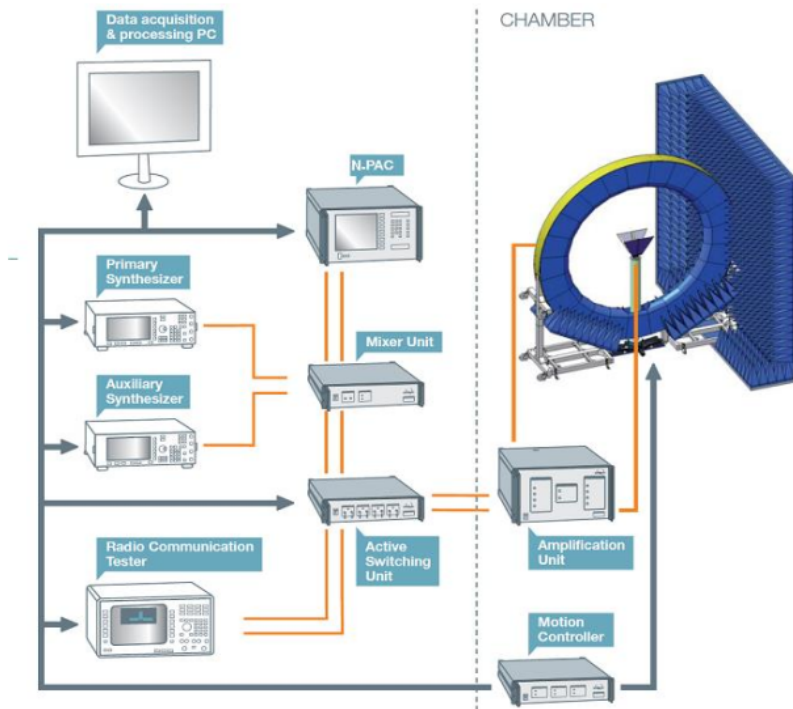
DEVIALET

HQ : 10, place Vendôme – 75001 Paris
RCS Paris n°502.155.682

DEVIALET

INGÉNIERIE ACOUSTIQUE DE FRANCE

3. Equipment of test system



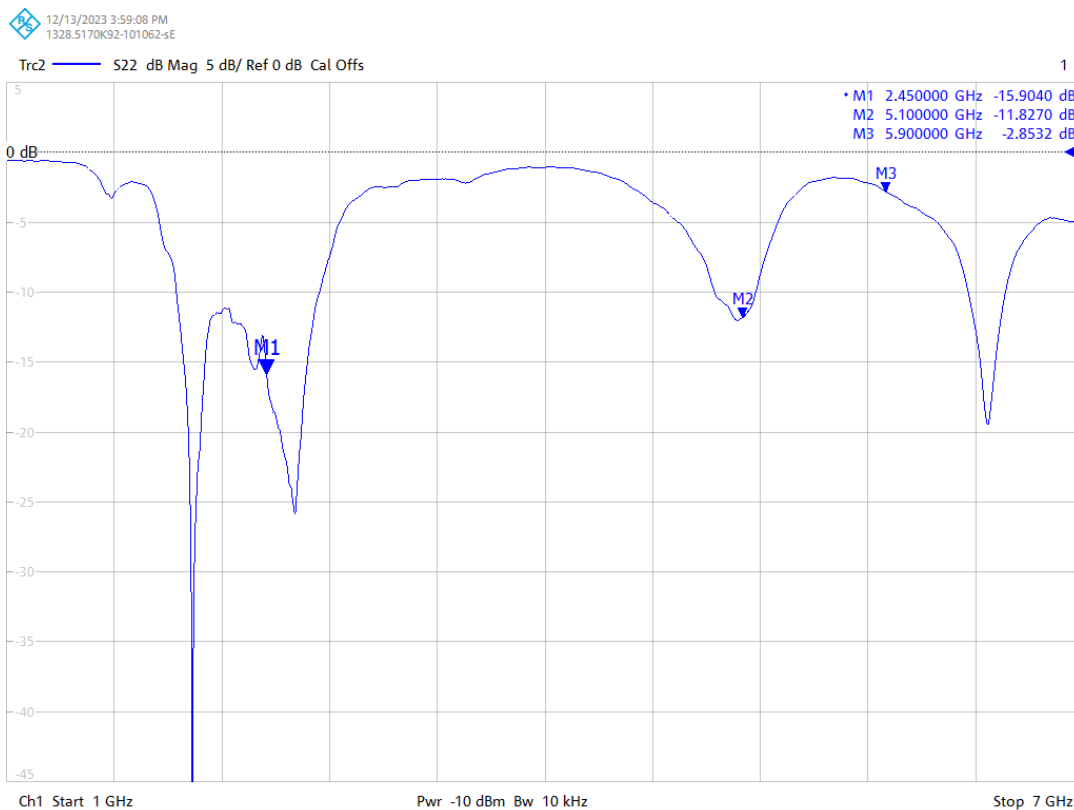
Equipment Description	Manufacturer	Identification N°	Current calibration date	Next calibration date	Calibration report or certificate references	Reference of calibration
SG 64	MVG	SAT 2000 sn#0013	01/07/2023	01/07/2024	CR.207.1.23.PAR. A SG64 Calibration Report	Calibrated by MVG according Internal Method
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

DEVIALET

INGÉNIERIE ACOUSTIQUE DE FRANCE

6. Measurement results

a. Return loss



b. Efficiency

Frequency (GHz)	Efficiency (%)
2.45	60

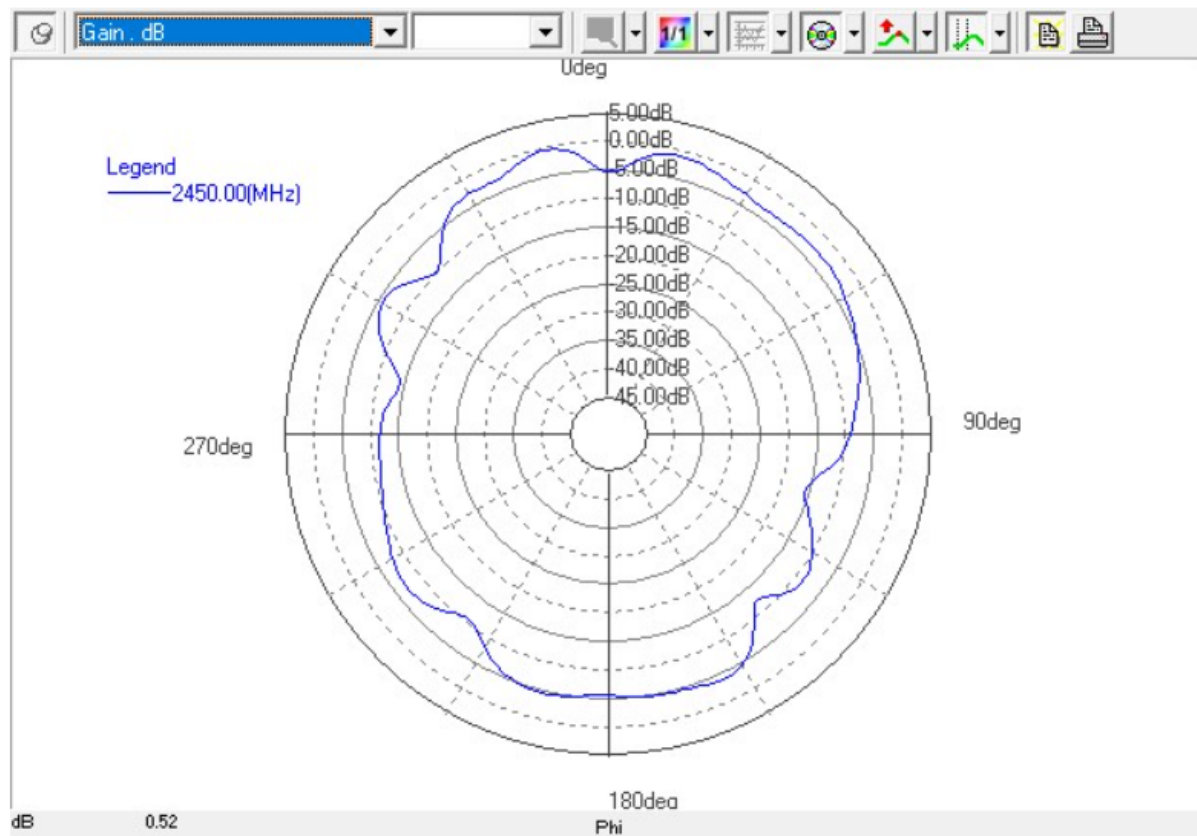
DEVIALET

INGÉNIERIE ACOUSTIQUE DE FRANCE

c. 2D radiation patterns

Linear Polarization (dBi)		XY-plane	YZ-plane	ZX-plane
2450 MHz	MAX.	-0.63	4.59	4.59
	AVE.	-5.63	-1.61	-0.32

XY-Plane - Theta=90.00°



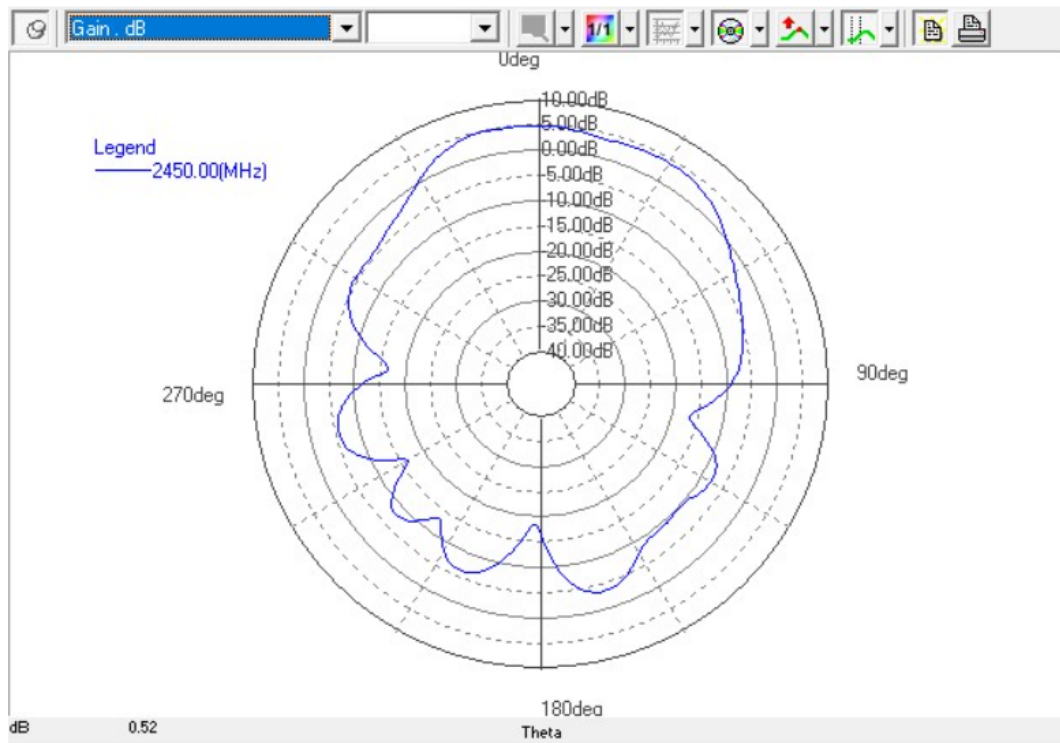
DEVIALET

HQ : 10, place Vendôme – 75001 Paris
RCS Paris n°502.155.682

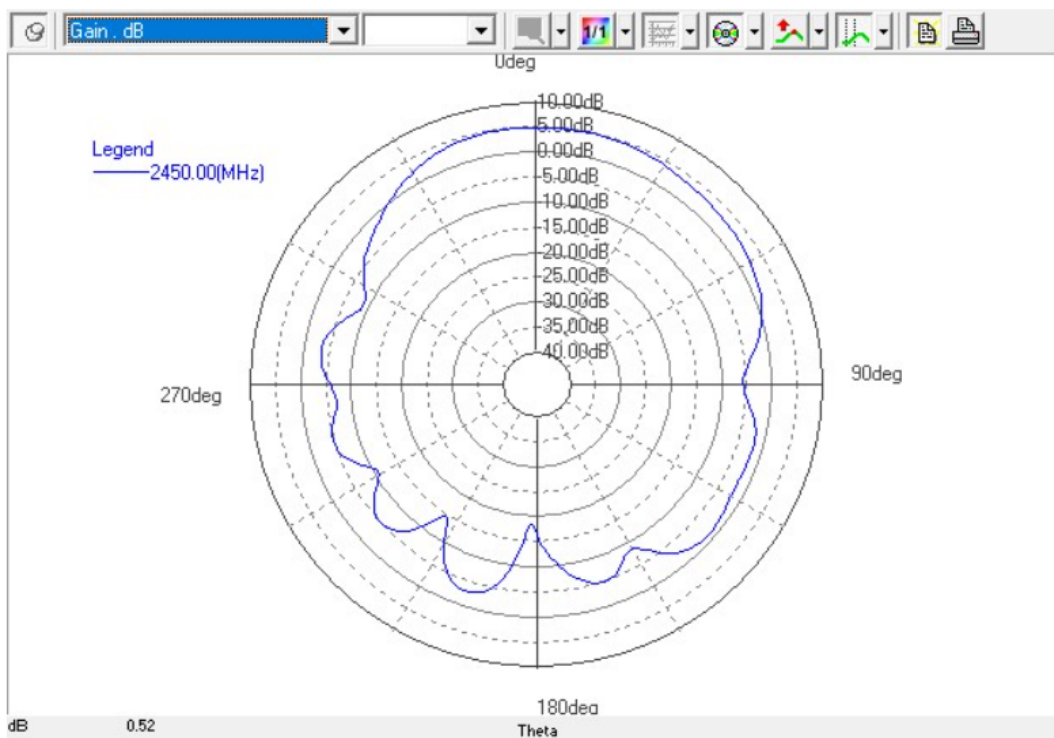
DEVIALET

INGÉNIERIE ACOUSTIQUE DE FRANCE

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



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



DEVIALET

HQ : 10, place Vendôme – 75001 Paris
RCS Paris n°502.155.682