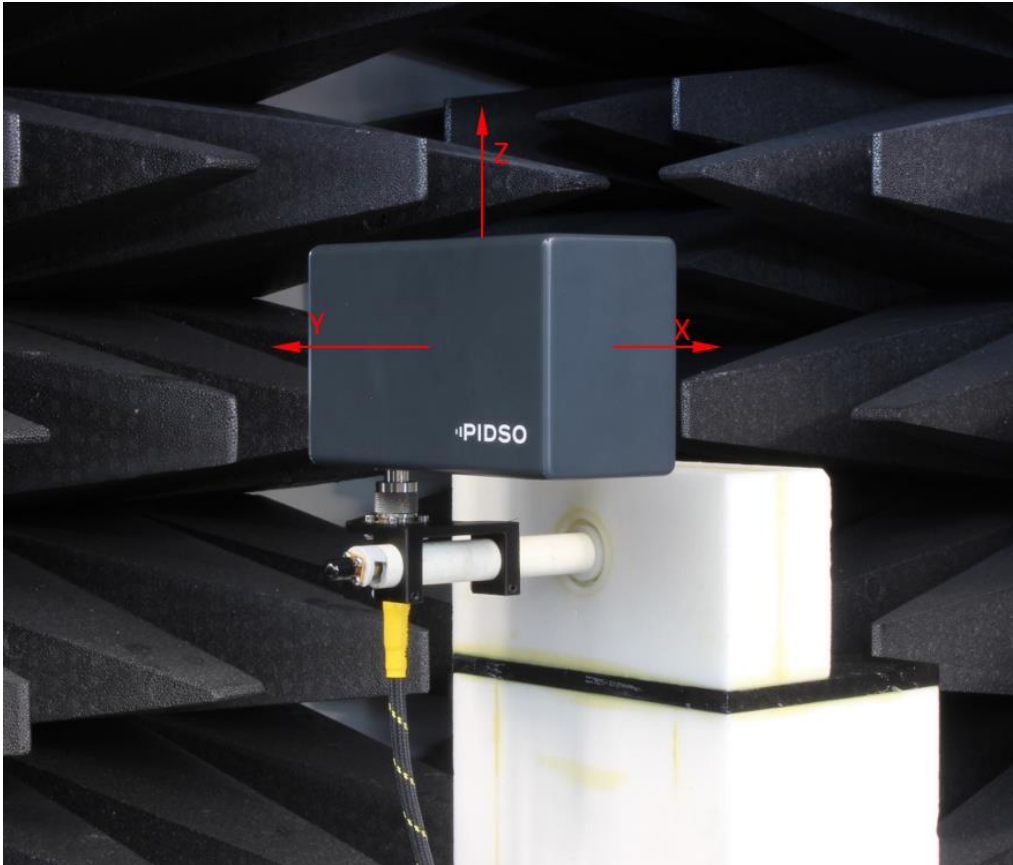


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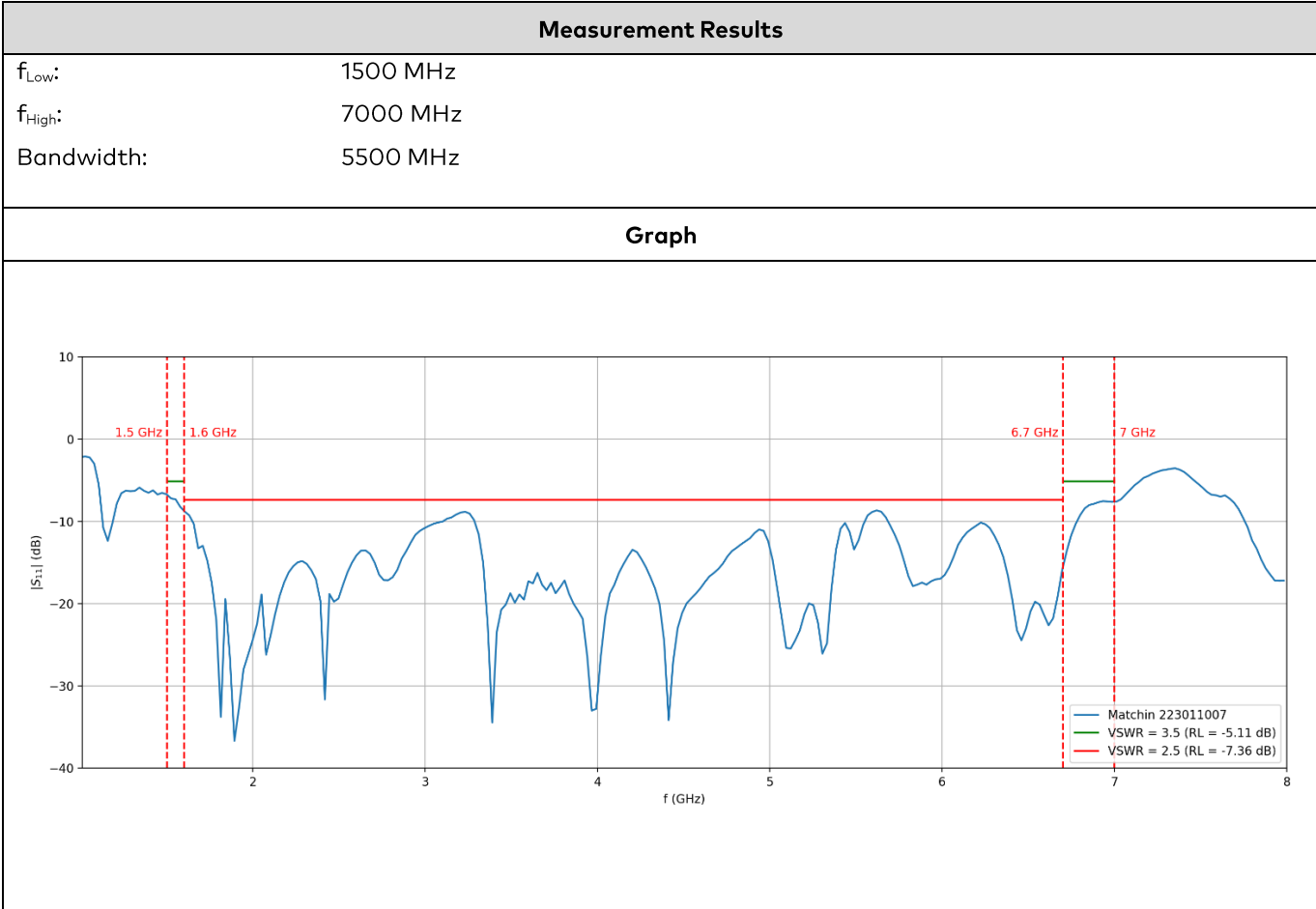
Description:	Vivaldi Antenna, Ultra-Broadband, 1.5 - 7 GHz, 16 dBi		
Order Number:	-		
Order Reference:	T220346		
Customer:	Tews Elektronik GmbH & Co. KG		
Author:	Christoph Mittermüller	Initials:	
Date:	06.10.2022		
Part Number:	SVI.001-00A		
Serial Number:	223011007		
Polarization:	linear, depends on mounting alignment		
Remarks:	-		

Measurement Setup	
Comments:	Antenna boresight is along the x-axis (0°)
Photo Documentation	
	

Document Name MER-SVI.001-00A_223011007	Created on 03.05.2021	Release Date 30.04.2021	Document ID QM-0054-02	Version 1.0	Page 1 of 5
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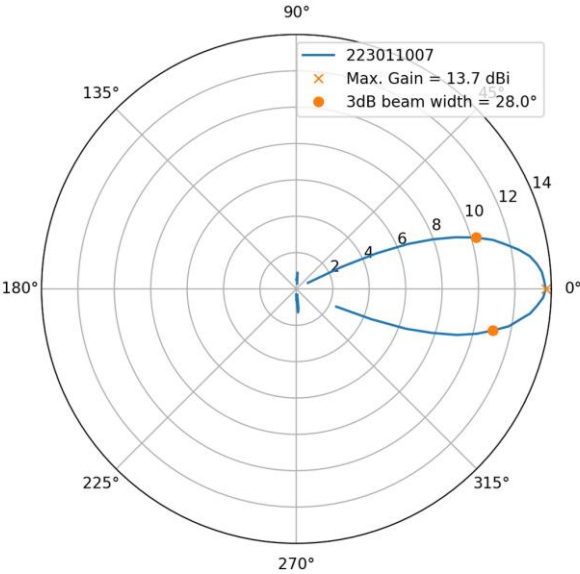
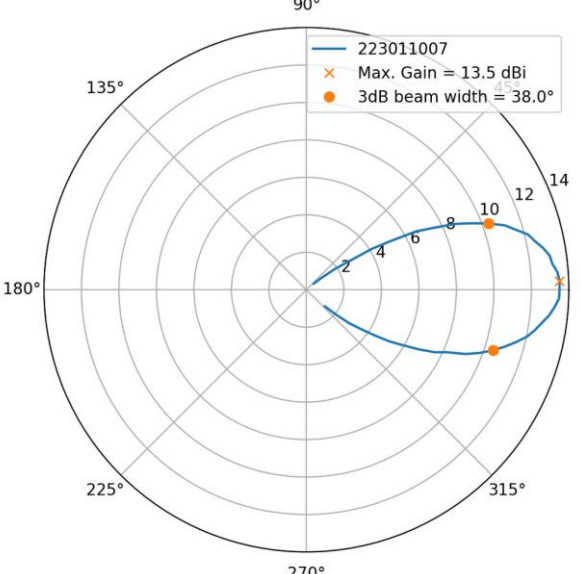
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Measurement:	Return Loss (S11)
Port:	1
Frequency Range	1500 - 7000 MHz
VSWR:	max. < 2.5:1 @ 1600 - 6700 MHz max. < 3.5:1 @ 1500 - 7000 MHz
Setup:	Free space measurement. The AUT (Antenna under test) is mounted on an elevation over azimuth positioner approximately 1.4m above ground.
Meas. Range:	1000 – 8000 MHz
Ambient Temperature:	23 °C

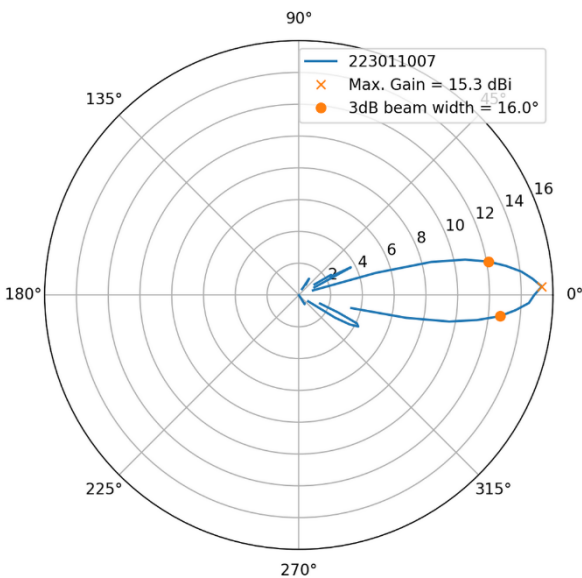
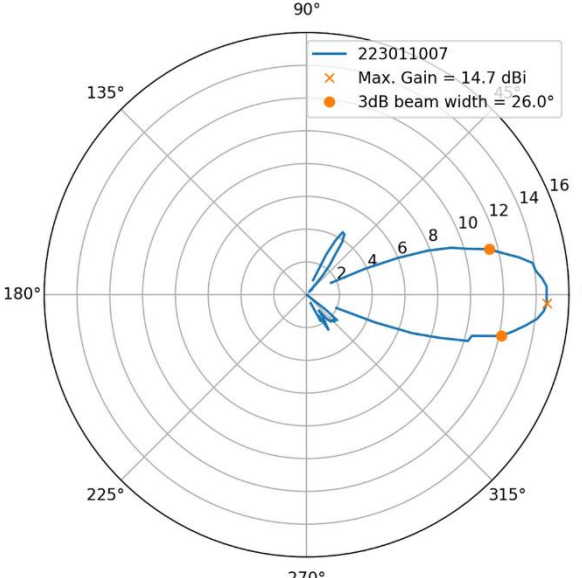
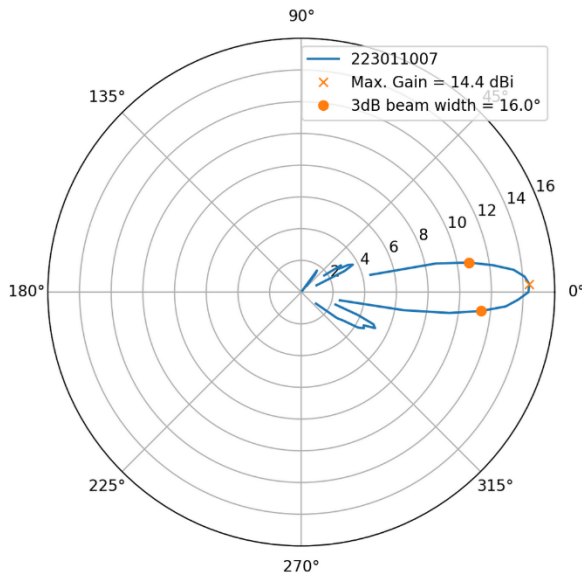
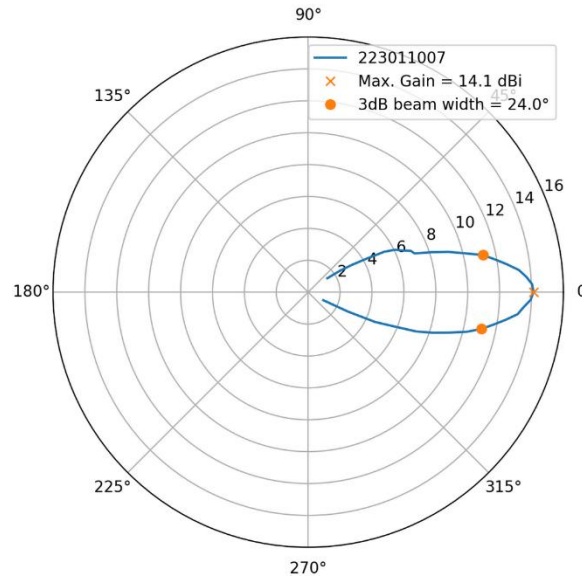


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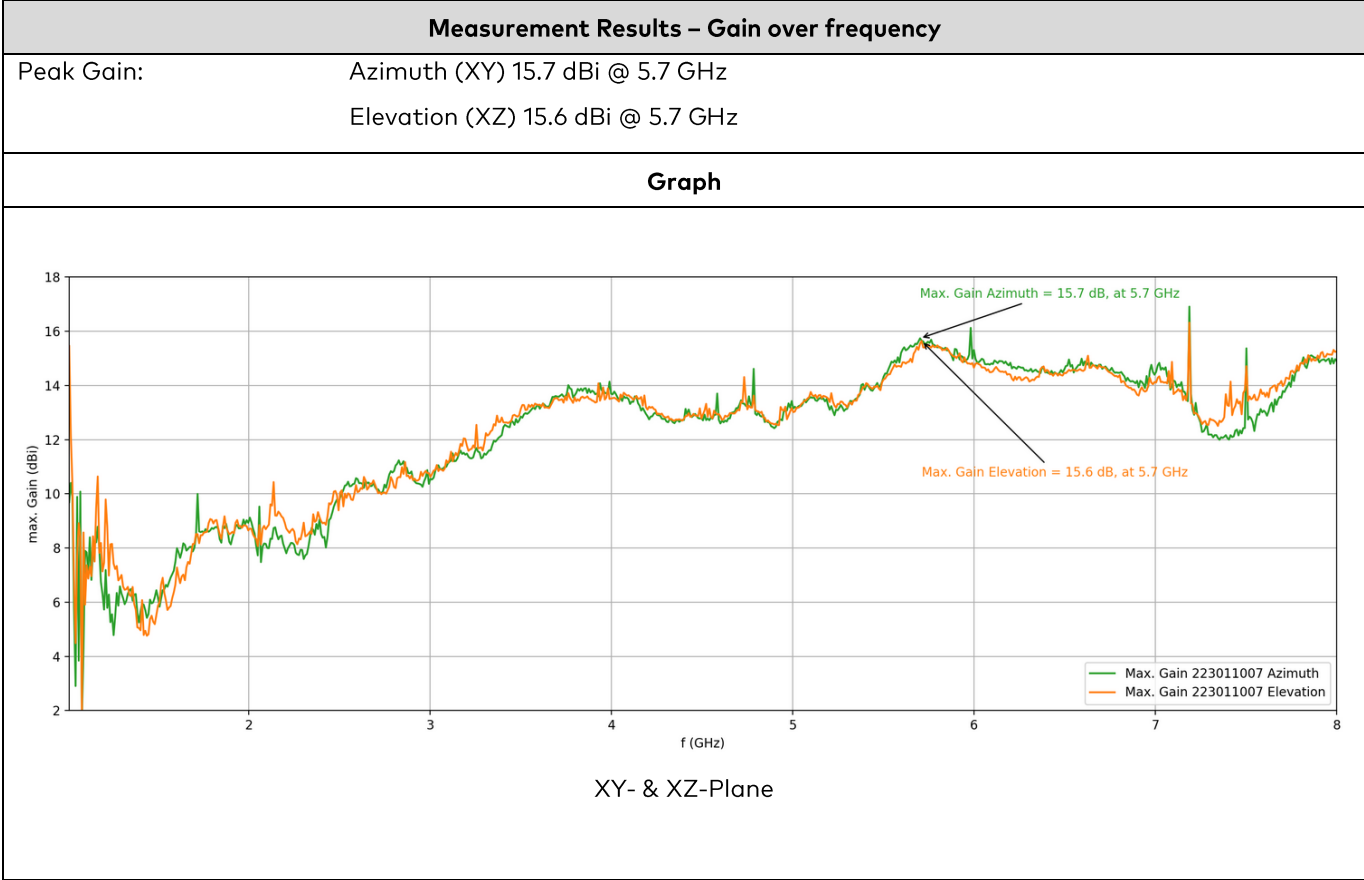
Measurement:	Gain - 2D Cuts
Frequency:	4000, 6000, 7000 MHz
Cuts:	XY, XZ
Angle:	0°
Polarization AUT:	XY: linear horizontal; XZ: linear vertical
Polarization Reference:	XY: linear horizontal; XZ: linear vertical
Setup:	The AUT is mounted on an elevation over azimuth positioner approximately 1.4m above ground. The reference antenna and the AUT are spaced by 2.5m.
Angular Resolution:	2°
Ambient Temperature:	23 °C

Measurement Results @ 4000 MHz	
Max Gain = 13.7 dBi	Max Gain = 13.5 dBi
 XY - Cut	 XZ - Cut

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Measurement Results @ 6000 MHz	
Max Gain = 15.3 dBi  XY – Cut	Max Gain = 14.7 dBi  XZ - Cut
Measurement Results @ 7000 MHz	
Max Gain = 14.4 dBi  XY – Cut	Max Gain = 14.1 dBi  XZ - Cut

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Measurement Equipment			
Description	Model	Serial Number	Inventory Number
HP VNA	8510C	3031A09354	339, 340, 341, 345
Rosenberger Cal Kit	RPC-3.50	04306, 02791, 03011	
RM Coax Cable	UFA210B-0 0.6m	FA210B1006000001	
Reference Antenna	SHO12000V001B		
Rotator			
Measurement Cables	C-01-01, C-02-02		