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Test – Results

Order-No.:

80205557-00 Rev_1

Client	Hilti Corporation, Feldkircherstrasse 100, 9494 Schaan, LIECHTENSTEIN	
Manufacturer	Hilti Corporation, Feldkircherstrasse 100, 9494 Schaan, LIECHTENSTEIN	
Product Description	Antenna Test Board	
Type / Model Name	Inverted F shaped printed antenna	
Testing commenced on	2024-03-26	
Testing concluded on	2024-03-26	
Serial - No.	none	

Remarks:

Customer specific tests in order to determine antenna gain and antenna performance.

Rev_0: original test report, issued on 2024-03-26

Rev_1: test setup photos separated to attachment B, issued 2024-11-28

For detailed photo documentation and setup description, please refer to ATTACHMENT B.

This test result consists of 12 page(s). The test result only corresponds to the tested sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

Date	Checked by	Tested by	Result
2024-11-28			Not applicable, no standards used

Test results

for test instruments and accessories used see **CPR 3**

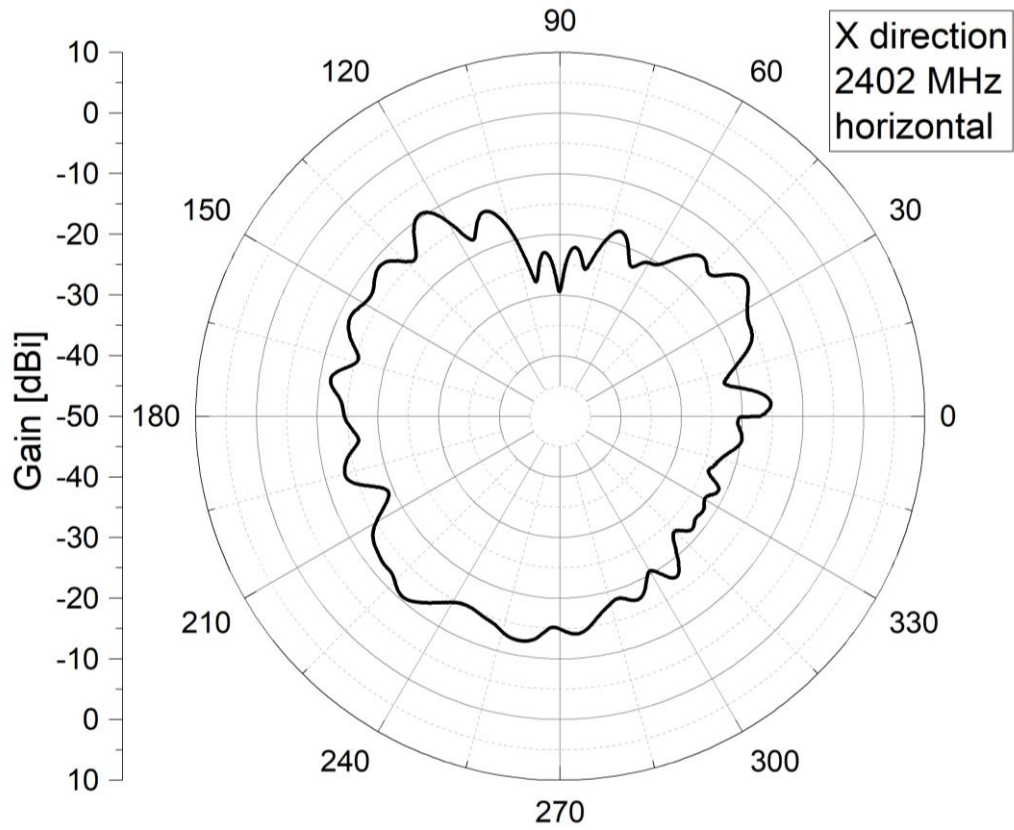
Peak performance overview

Peak Gain (dBi)	X hor	X ver	Y hor	Y ver	Z hor	Z ver
2402 MHz	-9.5	0.1	-0.7	-6.4	0.5	-8.3
2440 MHz	-8.3	0.9	0.3	-4.1	-1.2	-7.6
2480 MHz	-9.0	1.1	0.2	-3.6	-0.3	-8.4

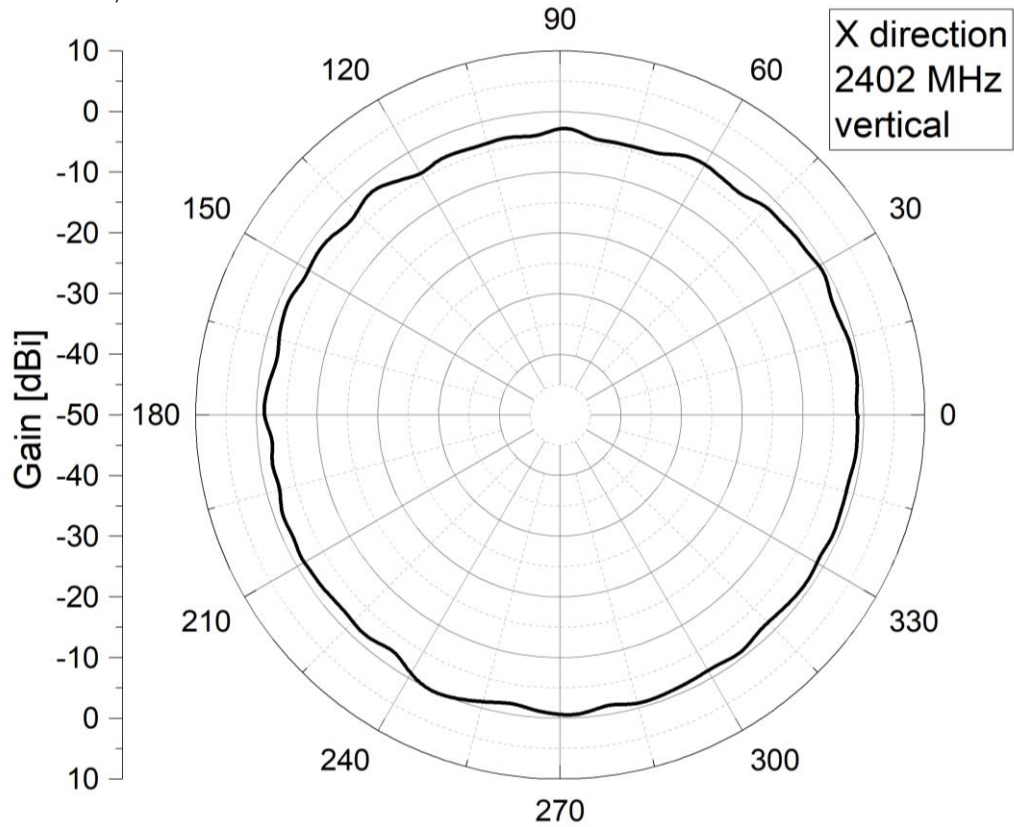
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Detailed graphical representation

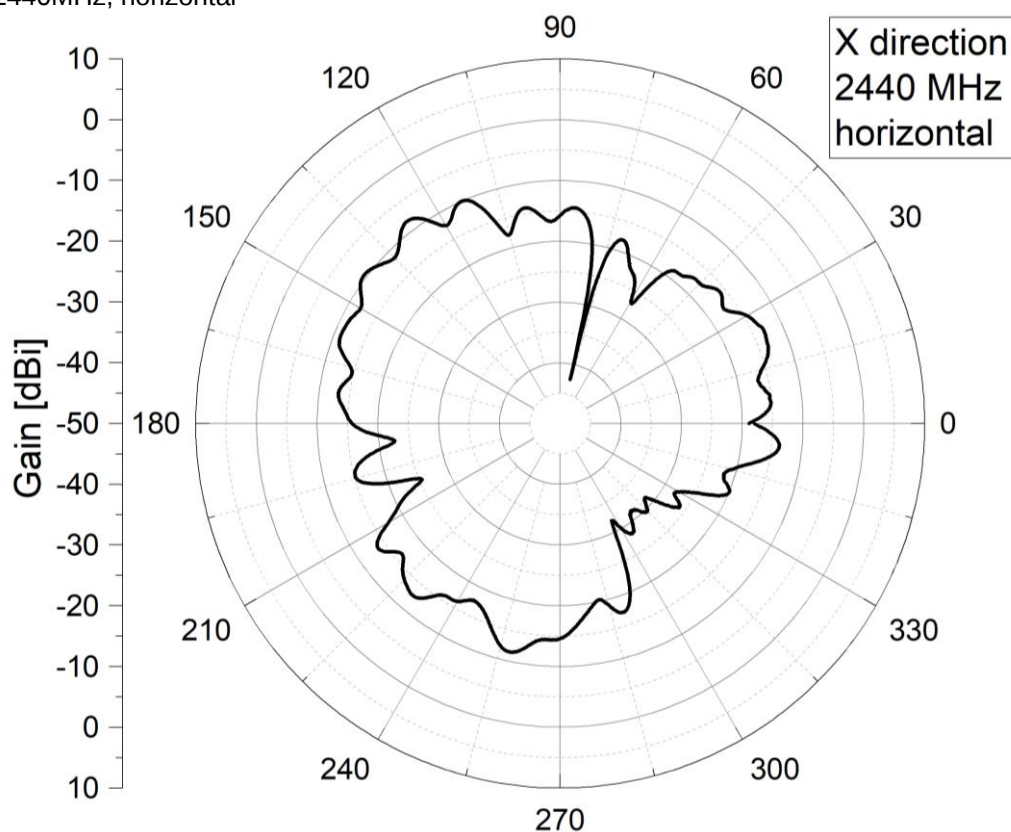
x direction, 2402 MHz, horizontal



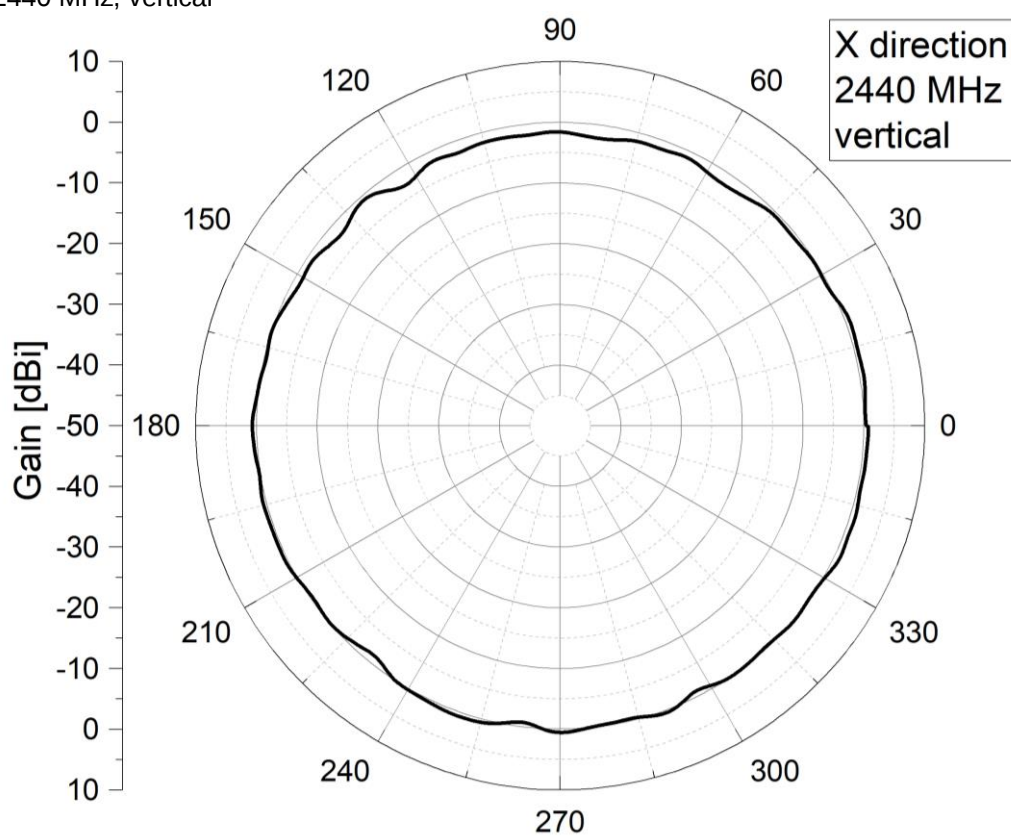
x direction, 2402 MHz, vertical



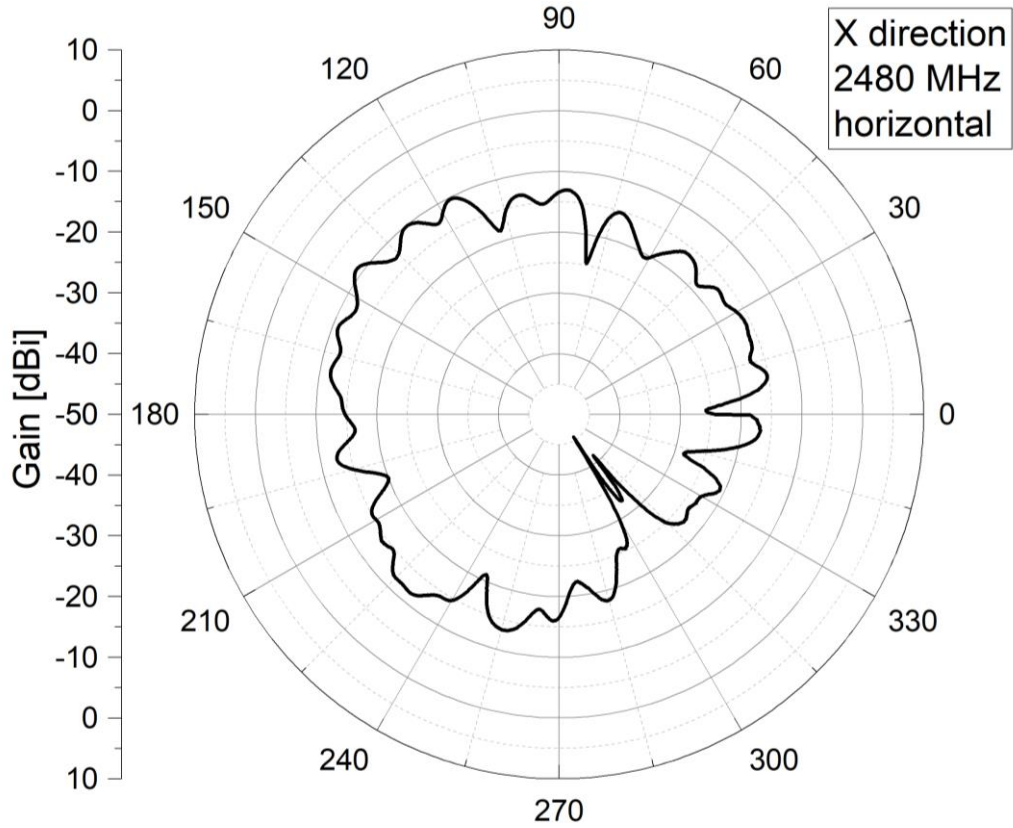
x direction, 2440MHz, horizontal



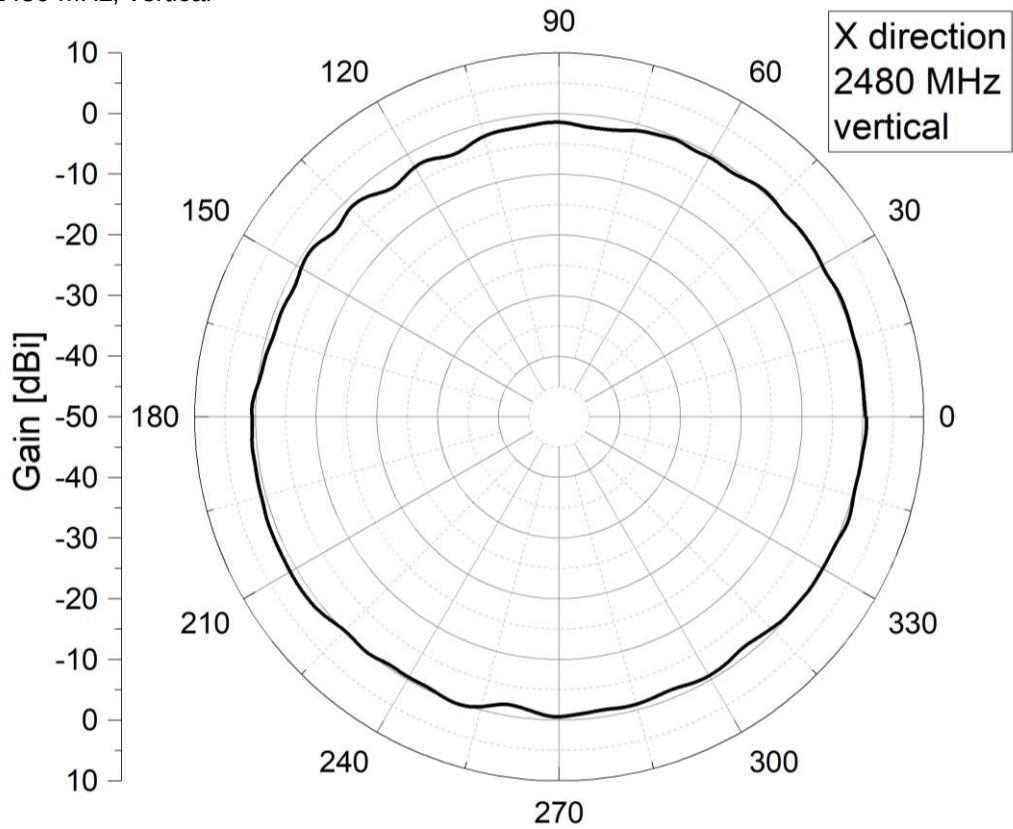
x direction, 2440 MHz, vertical



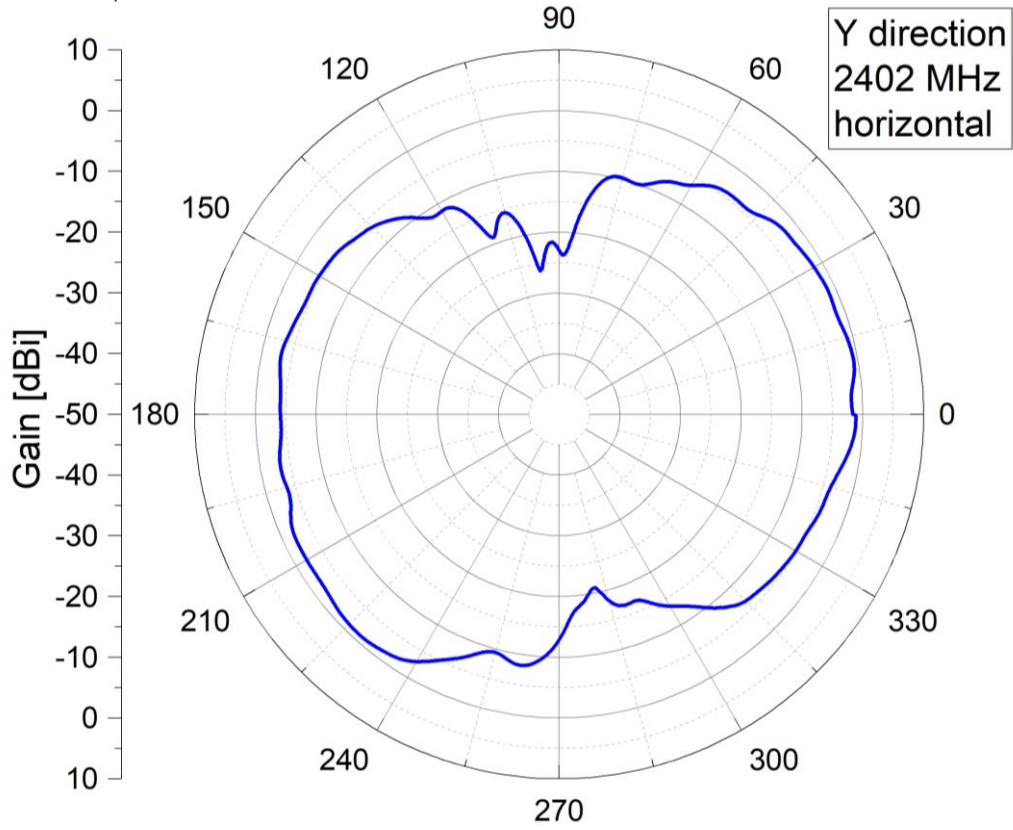
x direction, 2480 MHz, horizontal



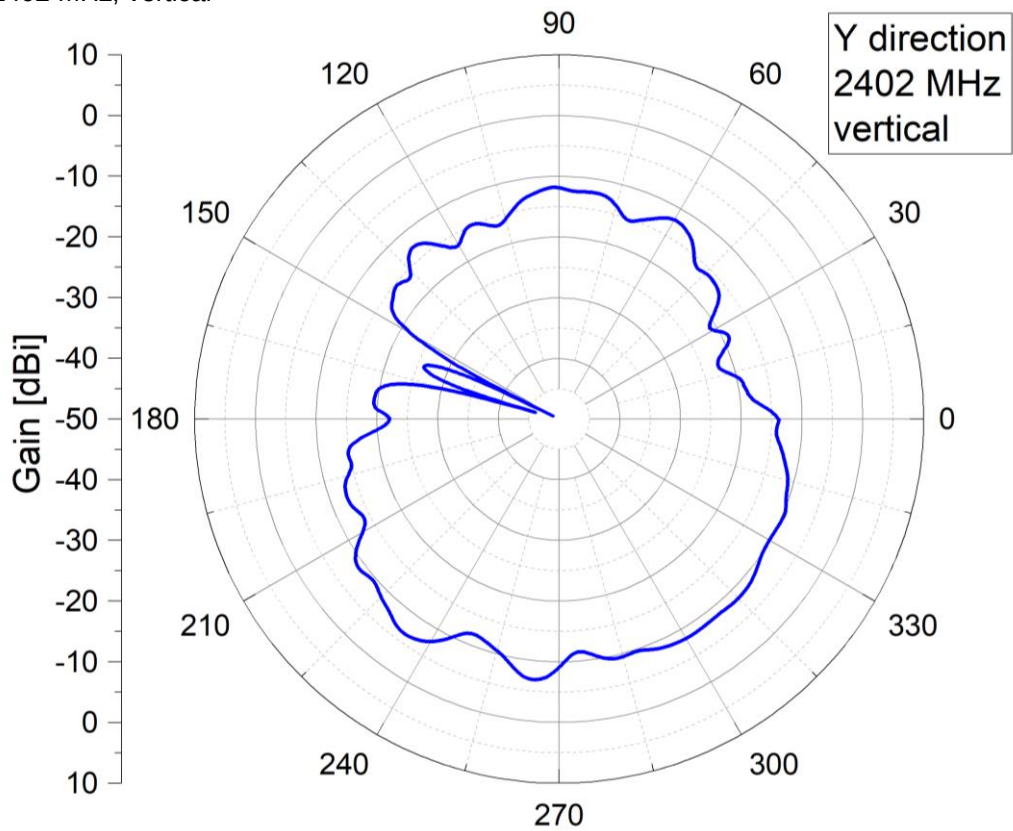
x direction, 2480 MHz, vertical



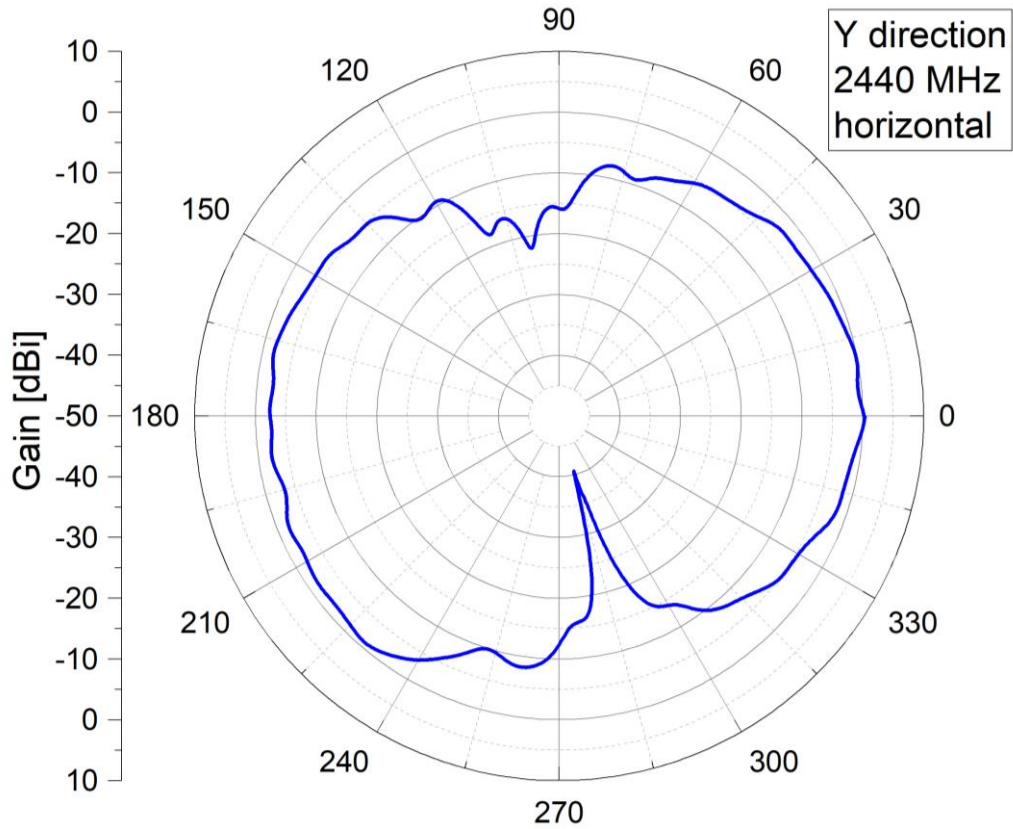
y direction, 2402 MHz, horizontal



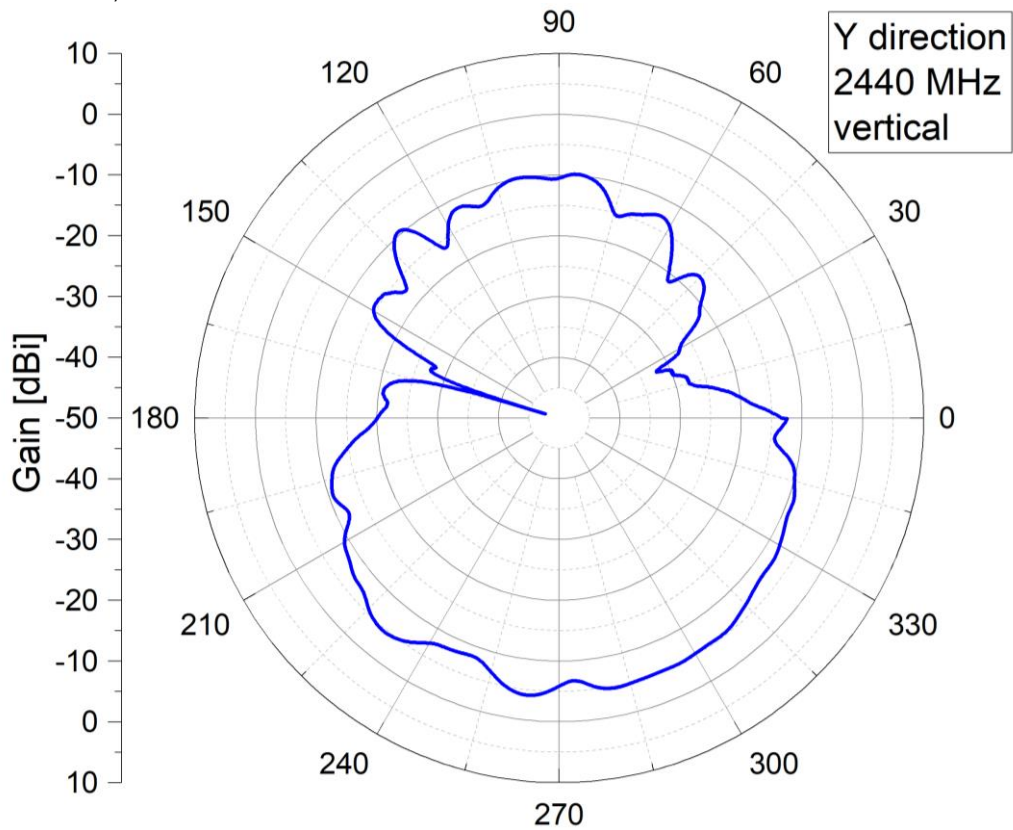
y direction, 2402 MHz, vertical



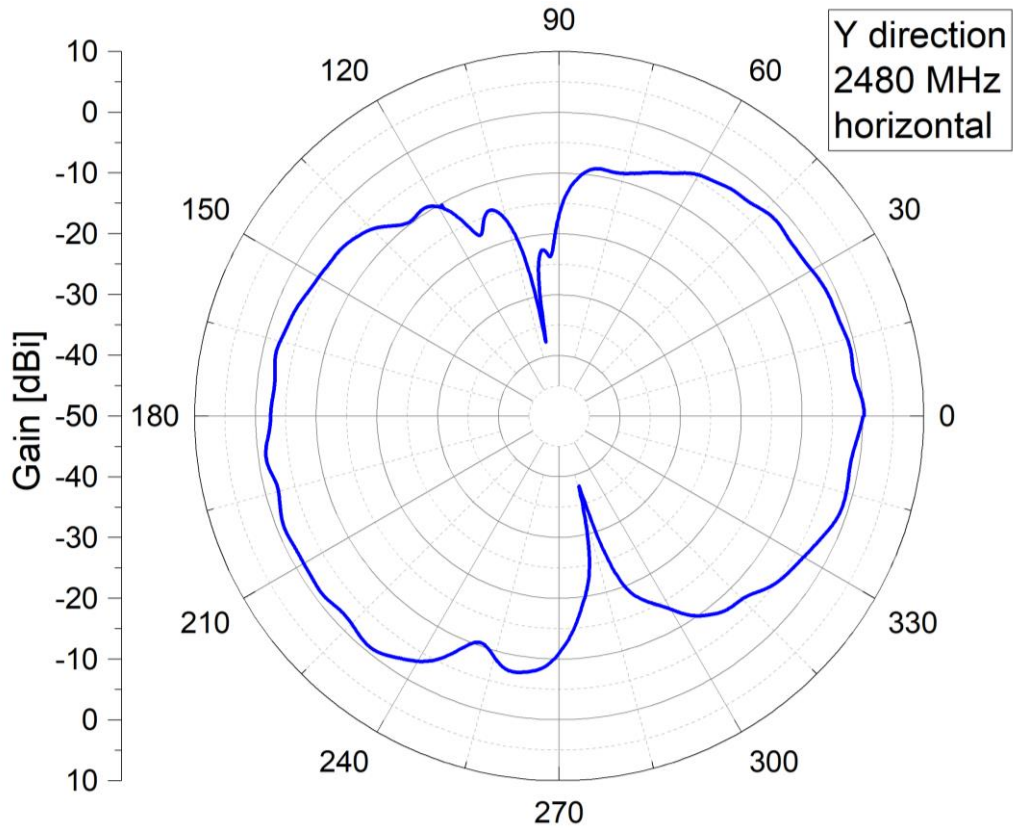
y direction, 2440 MHz, horizontal



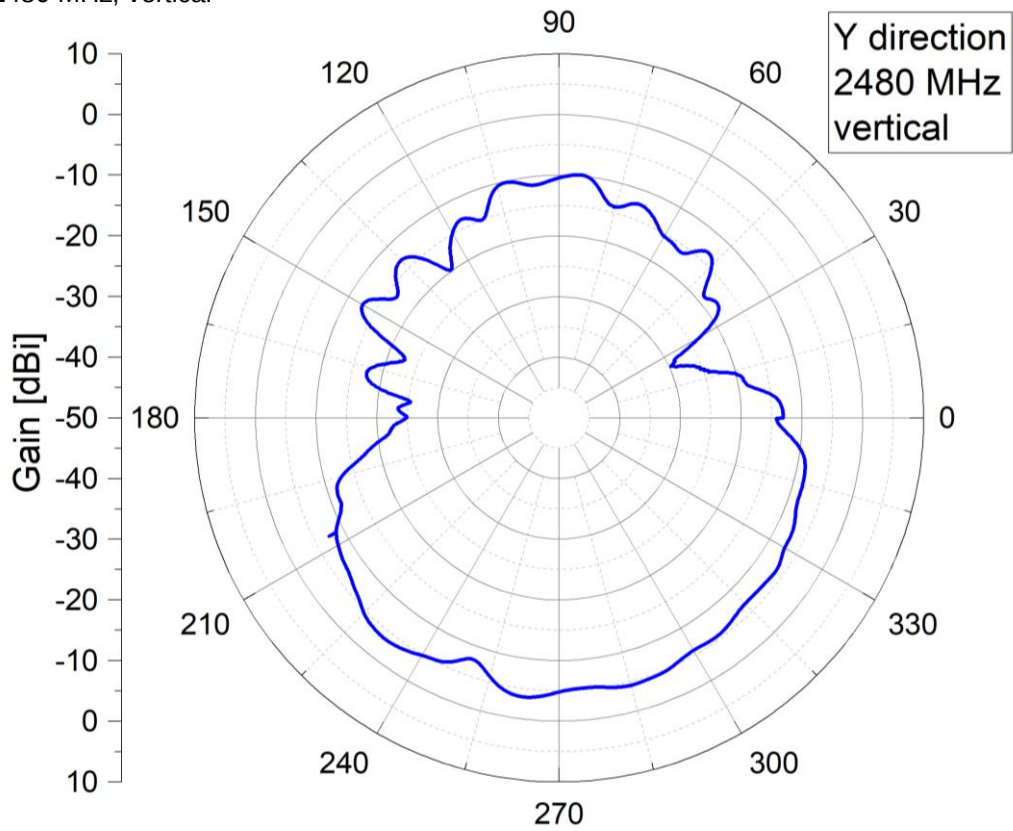
y direction, 2440 MHz, vertical



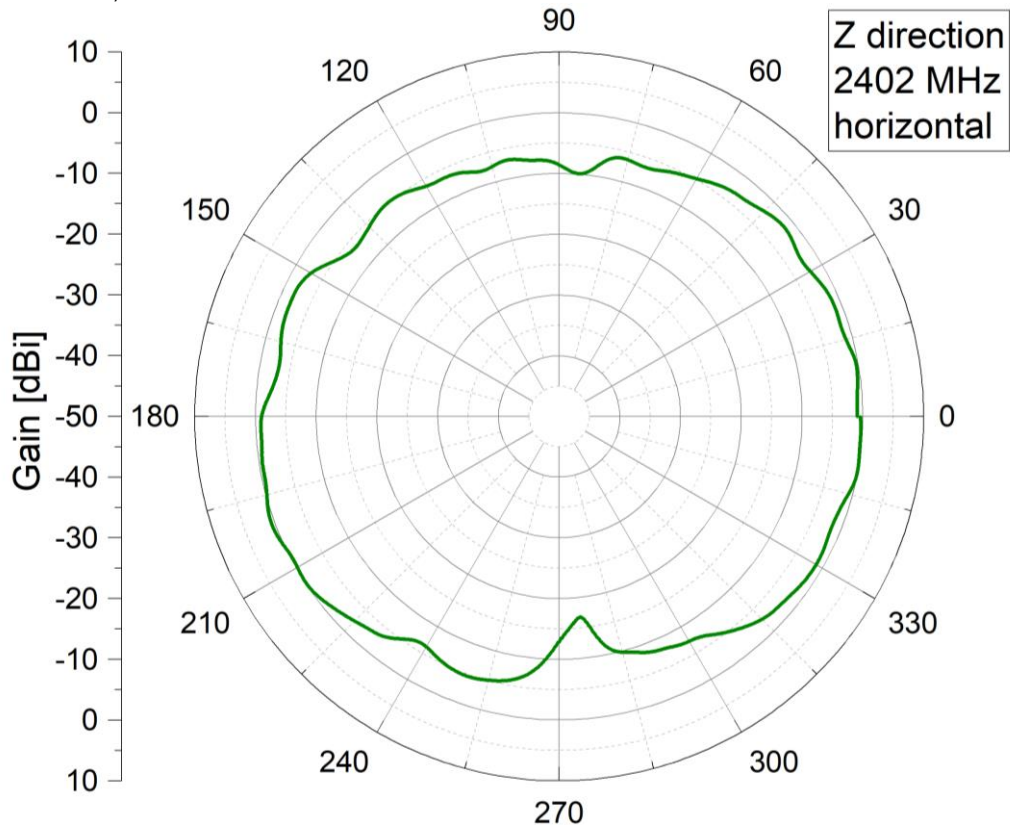
y direction, 2480 MHz, horizontal



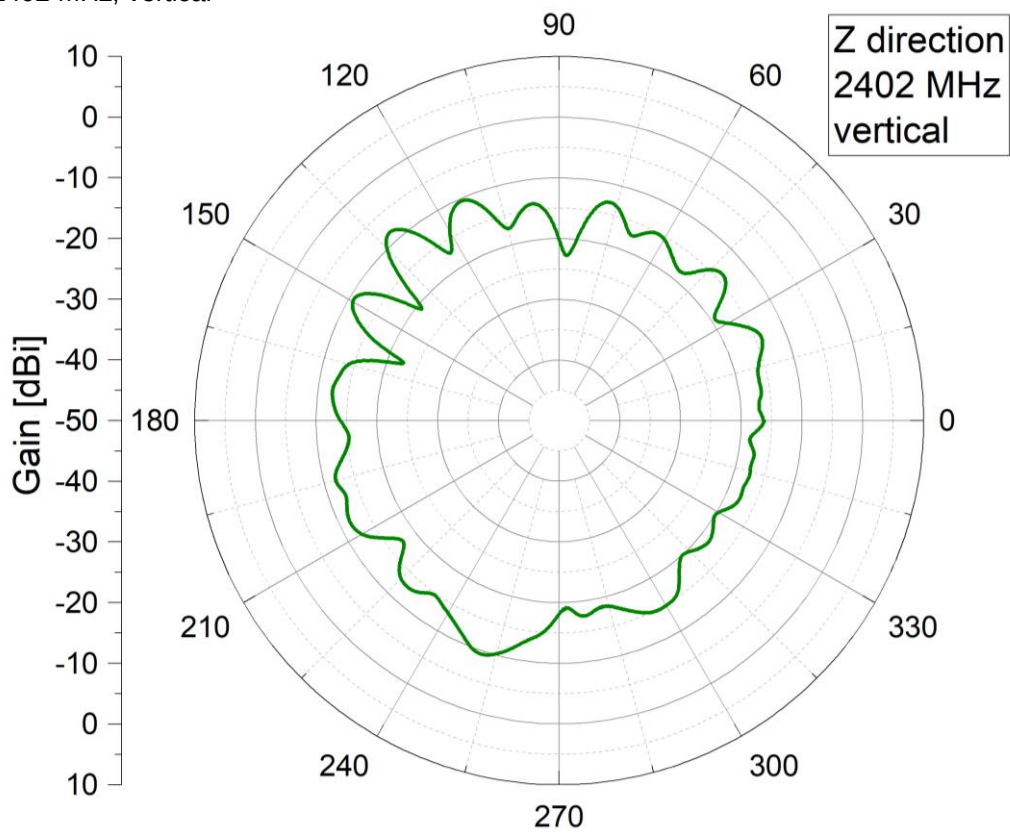
y direction, 2480 MHz, vertical



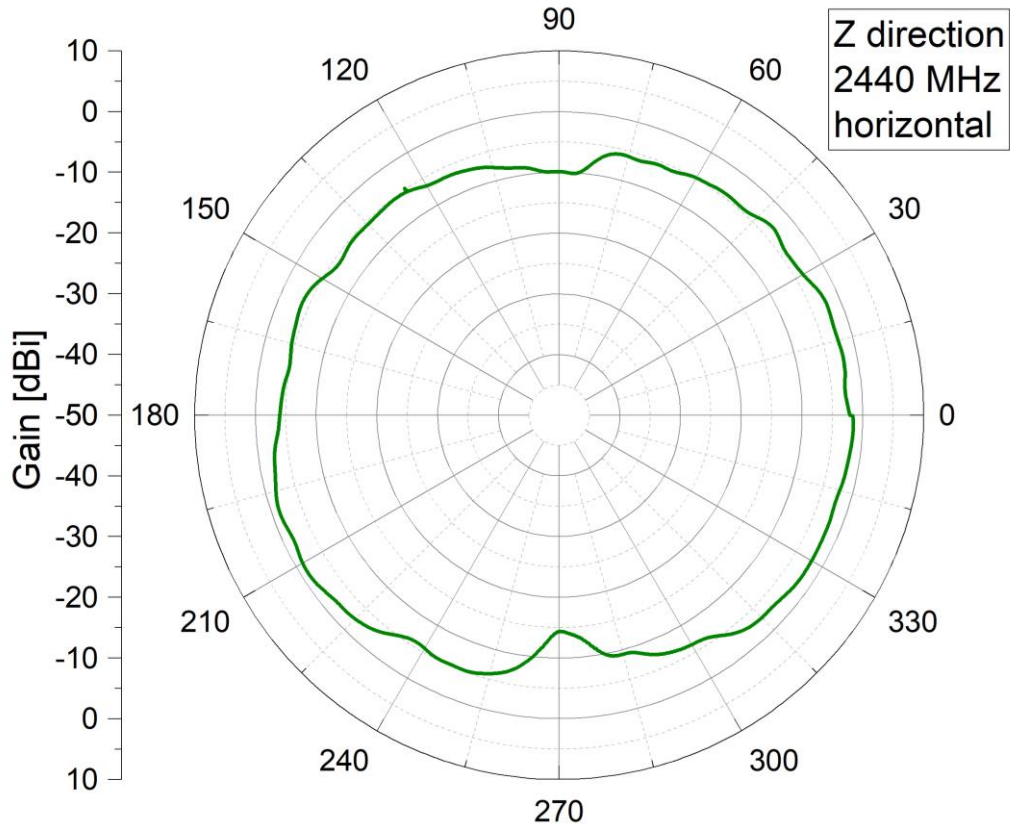
z direction, 2402 MHz, horizontal



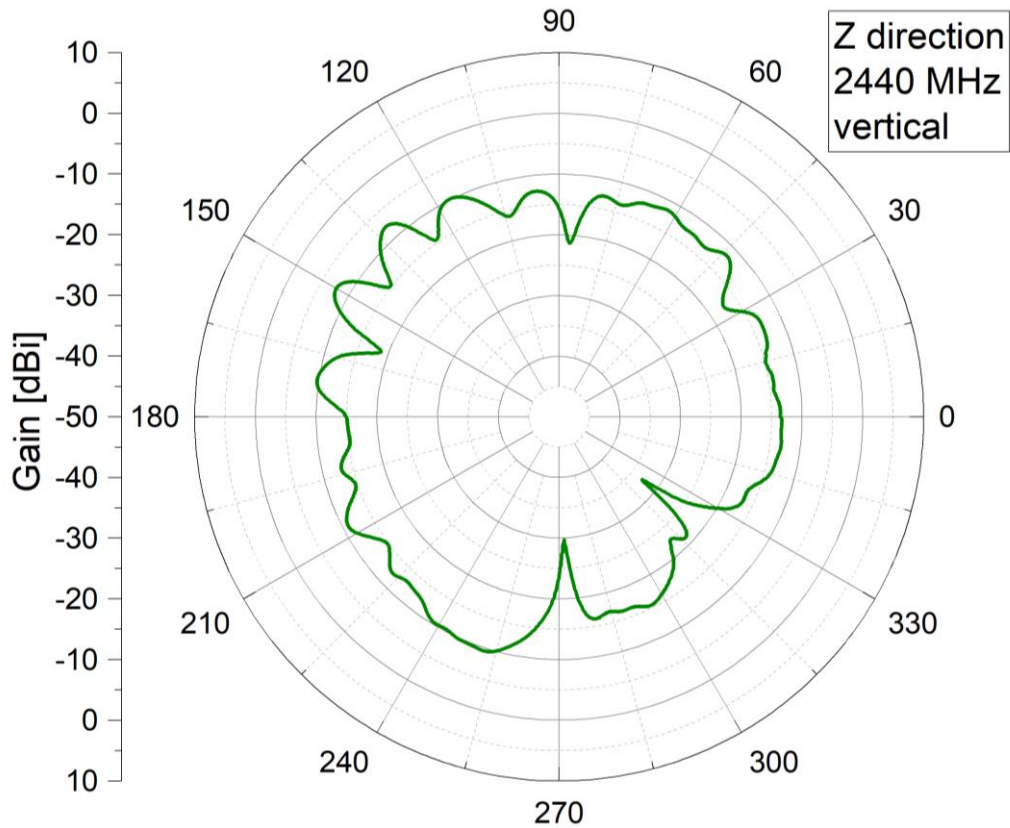
z direction, 2402 MHz, vertical



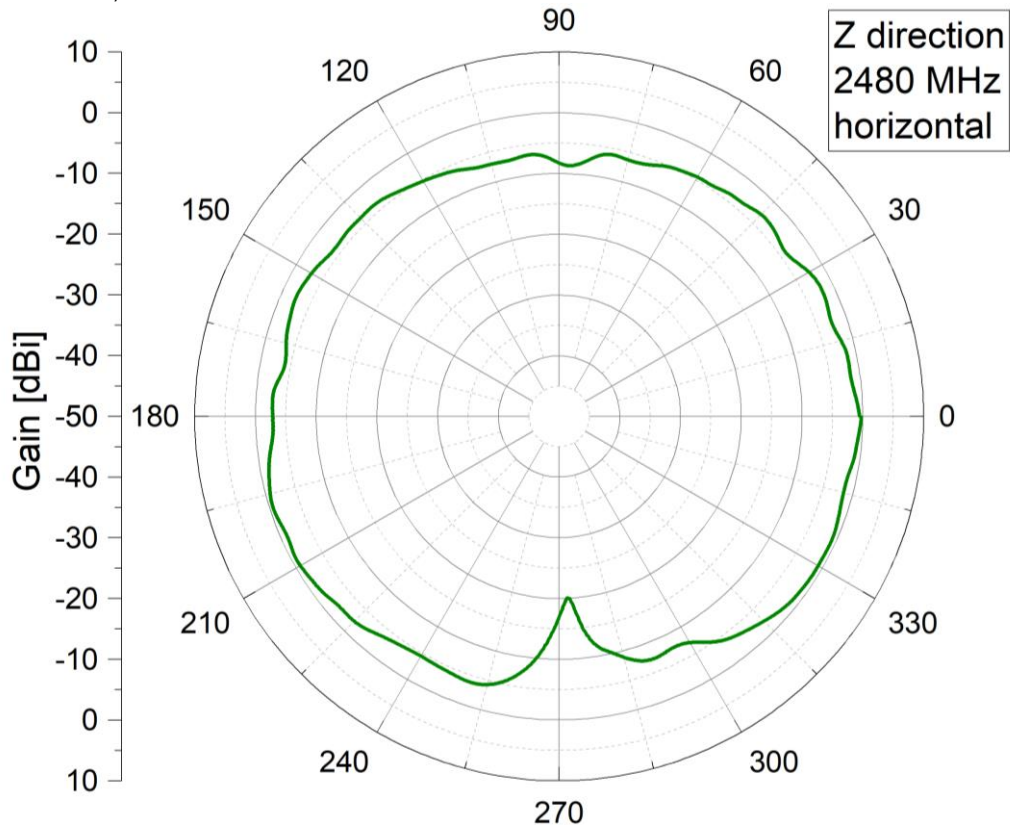
z direction, 2440MHz, horizontal



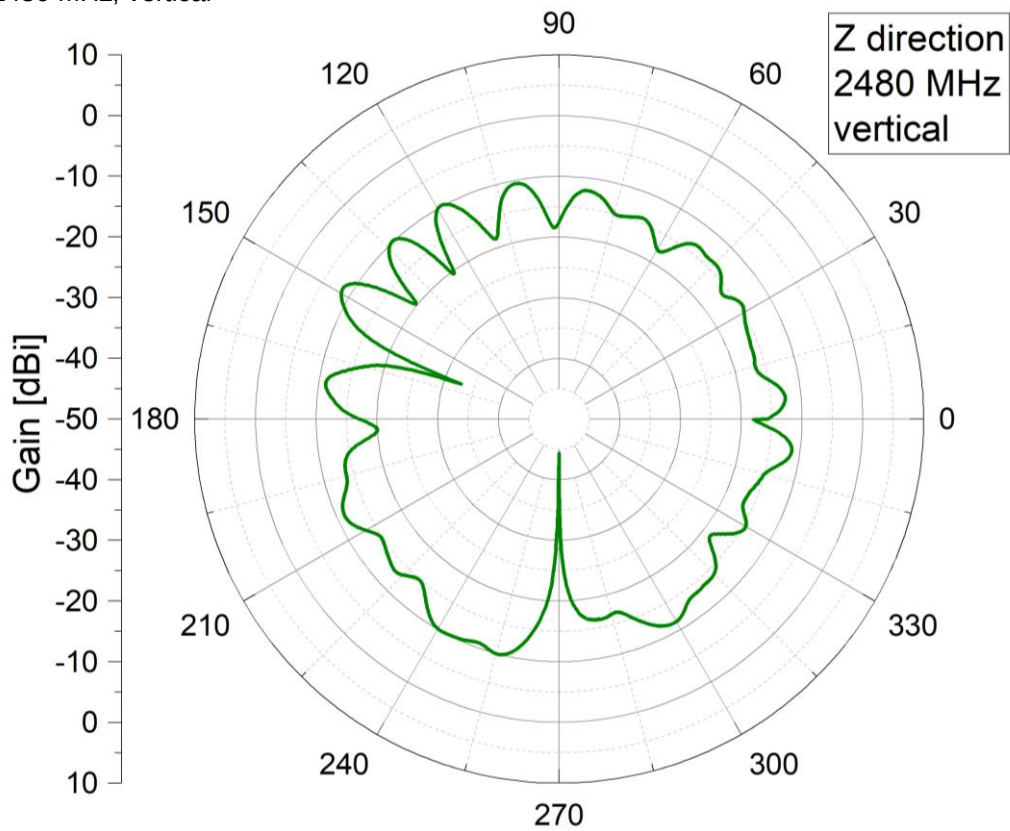
z direction, 2440 MHz, vertical



z direction, 2480 MHz, horizontal



z direction, 2480 MHz, vertical



USED TEST EQUIPMENT AND ACCESSORIES

All test instruments used, in addition to the test accessories, are calibrated and verified regularly.

Test ID	Model / Type	Kind of Equipment	Manufacturer	Equipment No.
CPR 3	FSW43	Spectrum Analyser	Rohde & Schwarz München	02-02/11-15-001
	AFS4-01000400-10-10P-4	RF Amplifier 1 - 4 GHz	MITEQ, Inc.	02-02/17-13-002
	BBHA 9120 E 251	Broadband Horn Antenna	Schwarzbeck Mess-Elektronik	02-02/24-05-006
	Sucoflex N-2000-SMA	RF Cable	novotronik Signalverarbeitung	02-02/50-05-075
	WHJS 1000-10EF	High Pass Filter	EMCO Elektronik GmbH	02-02/50-13-003
	SF104/11SMA/11N/1500MM	RF Cable 1.5 m	Huber + Suhner	02-02/50-13-016
	SF104/11SMA/11N/2000MM	RF Cable	Huber + Suhner	02-02/50-15-004
	SMCV100B	Signal Generator	Rohde & Schwarz Memmingen	09-16/05-23-001

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