

**Measurement-report****Antenna Gain**

Report Reference No.:	326659-TL7-5																
VDE File No.:	281300-5980-0877/326659																
Date of issue:	2025-05-20																
Laboratory:	VDE Prüf- und Zertifizierungsinstitut GmbH																
Laboratory Address.....:	Merianstrasse 28, 63069 Offenbach/Main; Germany																
Applicant's name.....:	Andreas Stihl AG & Co. KG																
Applicant's Address																	
Test item description.....:	Radio-Module																
Trademark.....:	Stihl																
Manufacturer.....:	Andreas Stihl AG & Co. KG																
Type reference(s).....:	Smart Connector 1																
Ratings.....:	3 V DC																
Method of correction	The correction value (G) was calculated from the difference of the radiated output power and the power level measured at the temporary antenna connector of the EUT. Calculation formula: $G = P_{\text{radiated}} - P_{\text{conducted}}$ with G: Correction value in dBi P_{radiated}: Radiated RF output power (e.i.r.p.) in dBm P_{conducted}: RF output power level, conducted (into 50 Ω) in dBm																
Supplementary description	P _{conducted} was measured with the Power-meter connected to the temporary antenna connector of the UUT. For the conducted measurement the Burst-Average Value was recorded and compared to the maximum e.i.r.p.																
Results	<table><tr><th>f / MHz</th><th>P_{conducted} / dBm</th><th>P_{radiated} / dBm</th><th>G Calculated</th></tr><tr><td>2402</td><td>2,4</td><td>-0,4</td><td>-2,8</td></tr><tr><td>2440</td><td>2,4</td><td>-0,3</td><td>-2,7</td></tr><tr><td>2480</td><td>2,0</td><td>-1,7</td><td>-3,7</td></tr></table>	f / MHz	P _{conducted} / dBm	P _{radiated} / dBm	G Calculated	2402	2,4	-0,4	-2,8	2440	2,4	-0,3	-2,7	2480	2,0	-1,7	-3,7
f / MHz	P _{conducted} / dBm	P _{radiated} / dBm	G Calculated														
2402	2,4	-0,4	-2,8														
2440	2,4	-0,3	-2,7														
2480	2,0	-1,7	-3,7														

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

Tested by (Name, Signature)	Hendrik Wissel	 (Authorization of test report)
Function	Testing engineer	

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Disclaimer:					
This test report contains the result of a singular investigation carried out on the product submitted. A sample of this product was tested to found the accordance with the thereafter listed standards or clauses of standards resp. The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below. Whenever reference is made to this test report towards third party, this test report shall be made available on the very spot in full length.					

List of attachments (including a total number of pages in each attachment):

Summary of testing: See verdict section.

Tests performed (name of test and test clause):

See verdict section.

Testing location:

Merianstrasse 28

63069 Offenbach/Main; Germany

Photo of the device:

