


**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	<p>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.</p> <p>Calculation formula: $G = P_{\text{radiated}} - P_{\text{conducted}}$ with</p> <p>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</p>																
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><thead><tr><th>f / MHz</th><th>P_{conducted} / dBm</th><th>P_{radiated} / dBm</th><th>G Calculated</th></tr></thead><tbody><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></tbody></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														
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2440	2,4	-0,3	-2,7														
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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:					
<p>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.</p> <p>The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below.</p> <p>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.</p>					

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:

