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# Laboratory report screening attenuation

## <u>Test object</u>

Shielding paint PRO54 with paint roller. Thick 4 m2/l + Thin 8m2l

### Test date

2021/06/01

#### Guarantee

We bindingly guarantee the shielding attenuation of a product with this laboratory report. The measuring curves represent the mean value of all tested charges, within a tolerance range of +/- 2 dB.

### **Place of test**

Own professional EMC-laboratory according to international standards, for daily quality control and product development.

## **Conformity**

The measurement of the attenuation of electromagnetic waves from **600 MHz to 40 GHz** has been performed in close accordance with standards **IEEE Std 299™-2006** or **ASTM D4935-10**.

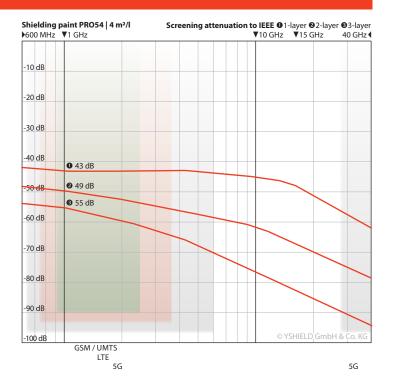
#### **Test setup**

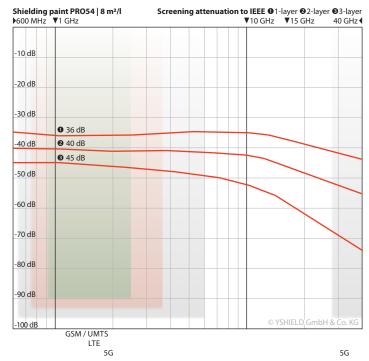
Measuring devices: Vector Network Analyzers Rohde & Schwarz **ZNB20** and **ZNB40** with a measuring dynamics up to 140 dB.

## Antennas: For IEEE Std

299™-2006 **horn antennas** with horizontal/ vertical polarisation inside and outside a test chamber. For ASTM D4935-10 **TEM cells** with radial polarisation.

**Test implementation** Irradiation with the power flux density S1. Measuring the pervasive power flux den-sity S<sub>2</sub>. The shielding attenuation is a non-dimensional measured variable in deci-bels (dB):





dB	=	10	•	$\log_{10}$	$rac{S_1}{S_2}$
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dB	Dämpfung
10	90 %
20	99 %
30	99,9 %
40	99,99 %
50	99,999 %
60	99,9999 %

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JD	Attenuetion	Î
B =	$10 \cdot \log_{10} rac{S_1}{S_2}$	

d

dB	Attenuation
10	90 %
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