



Application Note

Silver Oxidation and Antenna Performance

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Silver oxidation and antenna performance

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1. Silver oxidation and antenna performance

Silver is easily oxidized and discolored in everyday life. This change does not affect antenna performance. You can refer to our example test results here for confirmation that antenna performance is not affected by silver oxidation.

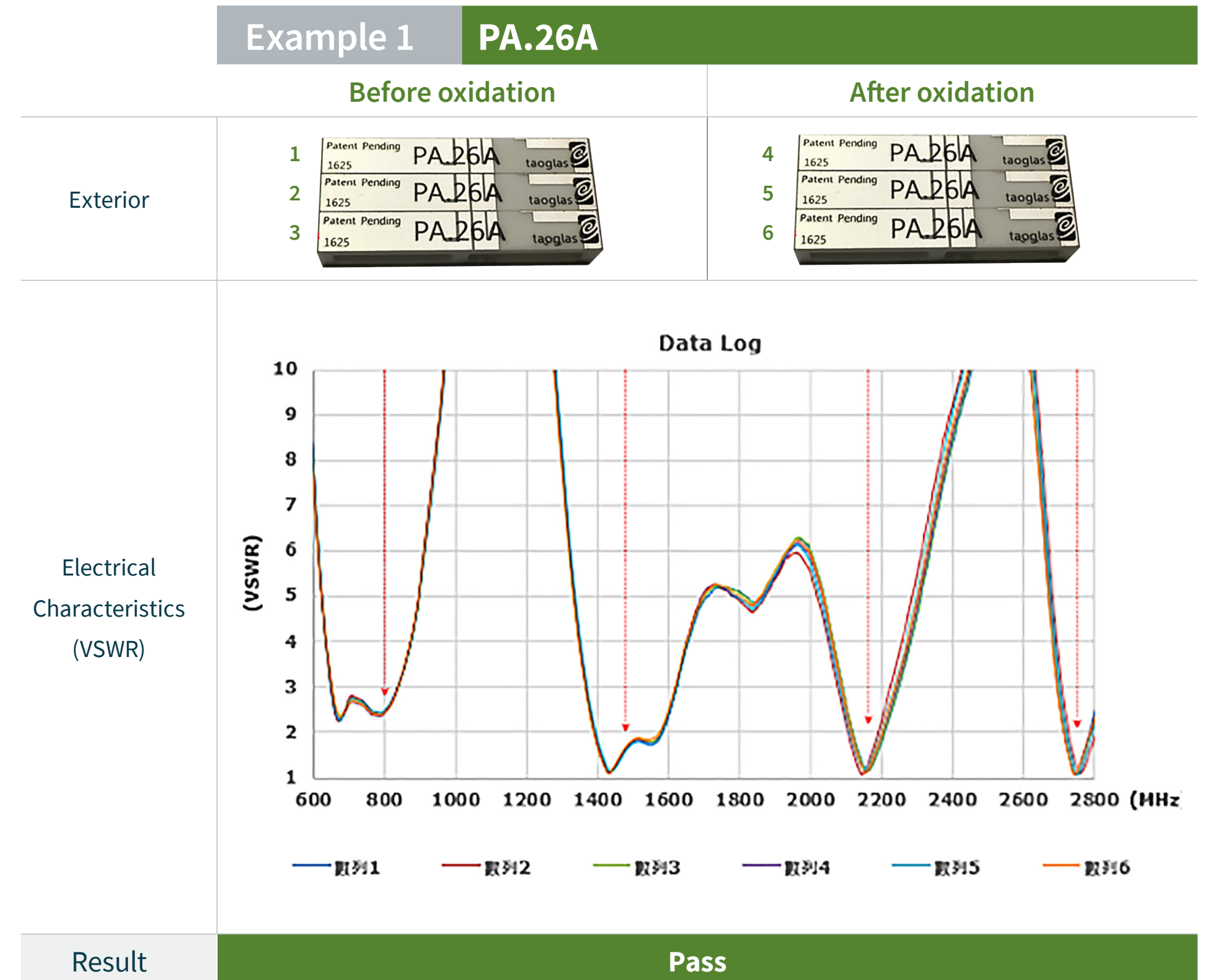
Silver oxidation and antenna performance test method

1. We prepared two new sets of examples of the same antennas.
2. We verified the electrical characteristics of the example antennas.
3. We applied an oxidation process to one set of example antennas:

Temperature:	+ 28 ± 2° C indoors
Humidity:	55 ± 5%,
Duration:	168 hours
Appearance after process:	Slightly oxidized and discolored surface

4. We compared the electrical characteristics of the non oxidized and oxidized antenna sets.
5. The results in each case show that there was **no adverse effect in antenna performance**.

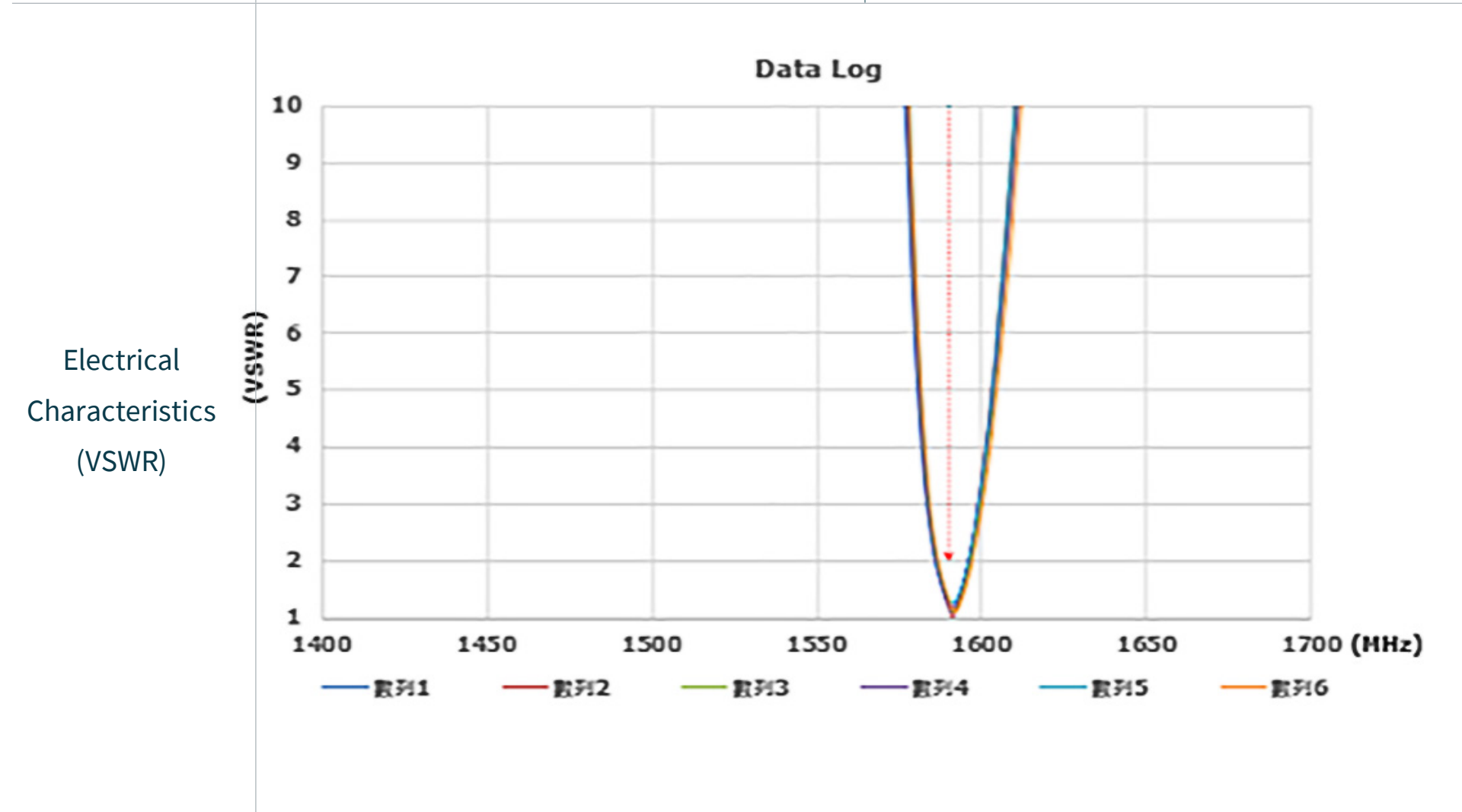
Silver oxidation and antenna performance test examples



The result is **Pass**.
After the oxidation process, the electrical characteristics still follow the product specifications.

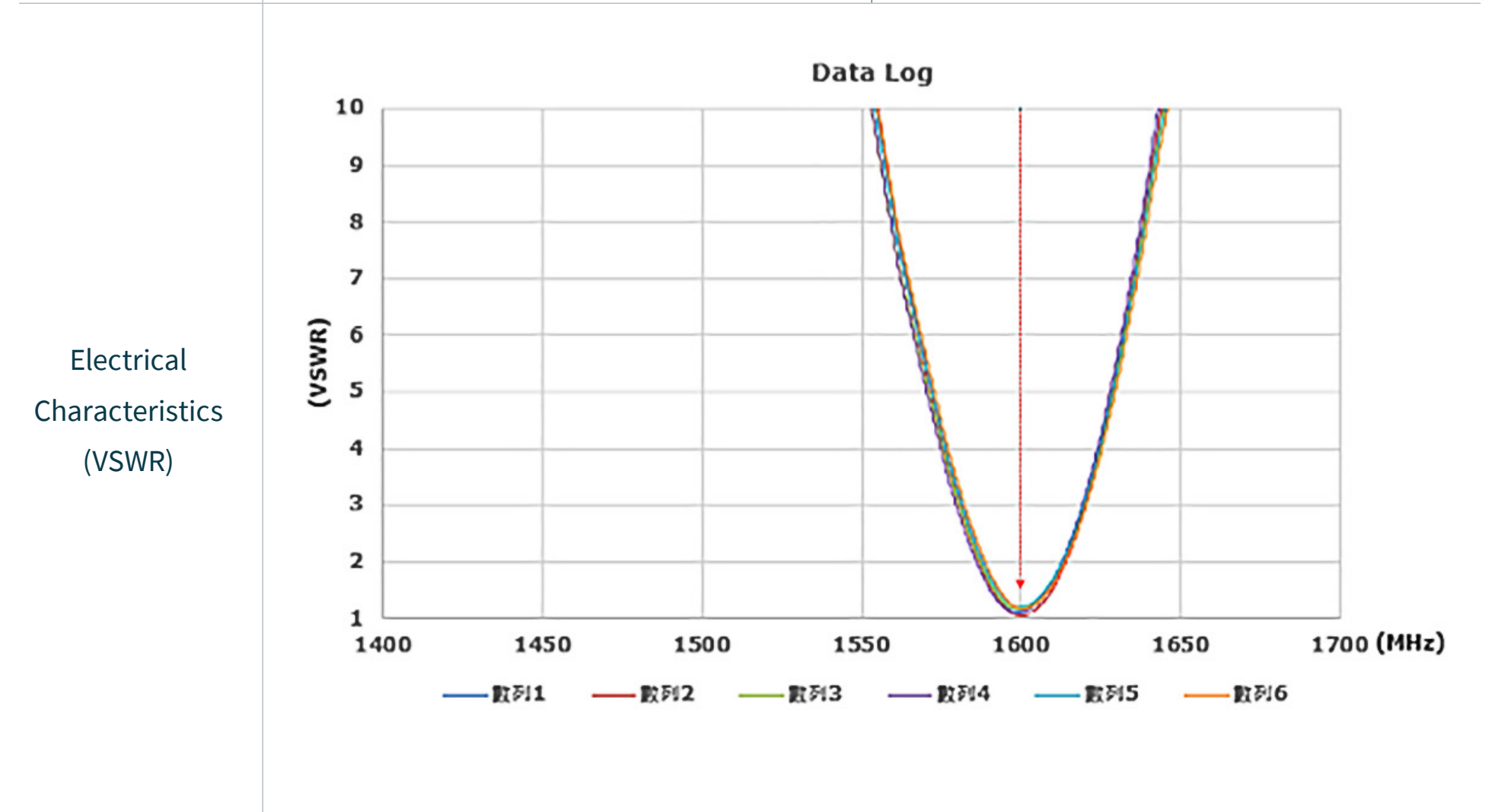
Silver oxidation and antenna performance test examples

Example 2 SGGP.12.A.02



The result is **Pass**.
After the oxidation process, the electrical characteristics still follow the product specifications.

Example 3 CGGP.25.4.A.02



The result is **Pass**.
After the oxidation process, the electrical characteristics still follow the product specifications.



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