SGS TÜV
SGS-TÜV Saarland Forster GmbH
Ein Unternehmen der SGS-Gruppe

DAkkS
Deutsche
Akkreditierungsstelle
D-PL-12103-01-01

Test Report

Shielding protection against commercial RFID Frequencies / Devices
(Frequency range 13.56MHz)

E. u. T.:	Wallet
Type:	Christian Wippermann Geldbörse Modellnummer 12135 CW
Manufacturer:	Christian Wippermann GmbH Wartenbergstraße 12 49082 Osnabrück Germany
Date of tests:	27 / 09 / 2017
Place of tests:	Perl- Sinz
Project no.:	79817_27092017_Wallet
Date of report:	29 / 09 / 2017
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1. Identification of test laboratory

Company name	SGS-TÜV Saarland Forster GmbH
Address	Saarbruecker Strasse 1
	66706 Perl
	Germany
Laboratory accreditation	D-PL-12103-01-01
	Registration FCC 90572
	KBA-P-00029-98
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Personnel involved in this test report

Responsible for testing:	Mr D. Heisel
Responsible for test report:	Mr K.-H. Forster

A Member of the SGS-Group and TÜV Saarland e.V.

Signature: Karl-Heinz Forster

2. Standards and requirements

Tests were performed according to:

MIL-STD 285 / IEEE-STD 299:2006
EN50147-1:1996
NSA 65-6

Internal Test Procedures:

SGS-TÜV Saarland Forster GmbH – RFID Blocking Test Procedure: 2015
SGS-TÜV Saarland Forster GmbH – RFID Blocking Live Test: 2016

Test environment

Temperature	20.3° C
Rel. humidity	58 %

3. Interpretation and overview of test results

	Result
RFID Live Test 13.56MHz	**Passed**

4. Test setup and results live test

4.1. Test-setup – Live Test Wallet with 13.56MHz

Chip card was installed inside shielded components. Receiving antenna was installed directly at surface area on front and rear side of test sample. Receiving antenna was moved over complete surface area to find and read chip card inside component.

Result
RFID tag not readable during testing

5. List of test instruments

RFID Live Test

INV #	Test equipment	Type	Manufacturer	S/N #
#RFID1	RFID Transmitter -13.56MHz	Dragon	Conrad	None
#RFID3	RFID Card	13.56MHz	Lab	001
#RFID4	RFID Tag	13.56MHz	Lab	001
SW001	RFID Software	125kHz/13.56MHz	Dragon	001
#A236	EMI Test Receiver	ESR	Rohde & Schwarz	101272
#S001	Software	EMC32/ V10.20.01	Rohde & Schwarz	None

6. Photo of E. u. T.