Bundesnetzagentur	cetecom advanced
BNetzA-CAB-02/21-102 Test report no.: 1	-3567/21-03-19
Testing laboratory	Applicant
CTC advanced GmbH Untertuerkheimer Strasse 6 – 10 66117 Saarbruecken / Germany Phone: + 49 681 5 98 - 0 Fax: + 49 681 5 98 - 9075 Internet: <u>https://www.ctcadvanced.com</u> e-mail: <u>mail@ctcadvanced.com</u>	BURY Sp. z o.o. ul. Wojska Polskiego 4 PL-39-300 Mielec / POLAND Phone: +48 017 788 46 00 Contact: -//-
Accredited Testing Laboratory: The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2018-03) by the Deutsche Akkreditierungsstelle GmbH (DAkkS) The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate starting with the registration number: D-PL-12076-01.	Manufacturer BURY Sp. z o.o. ul. Wojska Polskiego 4 PL-39-300 Mielec / POLAND

Test standard/s

FCC - Title 47 CFR Part 15 FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices

RSS - 216 Issue 2

ssue 2 Wireless Power Transfer Devices

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item:	Dual Wireless charger with NFC card protection and digital key functionality
Model name:	DCB
FCC ID:	QZ9-15WWLC
ISED certification number:	5927A-15WWLC
Frequency:	128 kHz
Technology tested:	Type 3, Cat1 WPT
Antenna:	Integrated antenna
Power supply:	9.0 V to 16 V DC
Temperature range:	-40°C to +43°C

This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorized:

p.o.

Christoph Schneider Lab Manager Radio Labs

Test performed:

Hans-Joachim Wolsdorfer Lab Manager Radio Labs



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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CTC advanced GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CTC advanced GmbH.

The testing service provided by CTC advanced GmbH has been rendered under the current "General Terms and Conditions for CTC advanced GmbH".

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This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

2.2 Application details

Date of receipt of order:	2022-11-23
Date of receipt of test item:	2023-02-08
Start of test:*	2023-02-13
End of test:*	2023-05-09
Person(s) present during the test:	-/-

*Date of each measurement, if not shown in the plot, can be requested. Dates are stored in the measurement software.

2.3 Test laboratories sub-contracted

None



3 Test standard/s, references and accreditations

Test standard	Date	Description			
FCC - Title 47 CFR Part 15		FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices			
RSS - 216 Issue 2	2016-01	Wireless Power Transfer Devices			
RSS - Gen Issue 5 incl. Amendment 1 & 2	February 2021	Spectrum Management and Telecommunications Radio Standards Specification - General Requirements for Compliance of Radio Apparatus			
Guidance	Version	Description			
ANSI C63.10-2013	-/-	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices			
Accreditation	Description	n			
D-PL-12076-01-04	Telecommunication and EMC Canada https://www.dakks.de/as/ast/d/D-PL-12076-01-04e.pdf				
D-PL-12076-01-05	https://ww	Telecommunication FCC requirements https://www.dakks.de/as/ast/d/D-PL-12076- 01-05e.pdf			

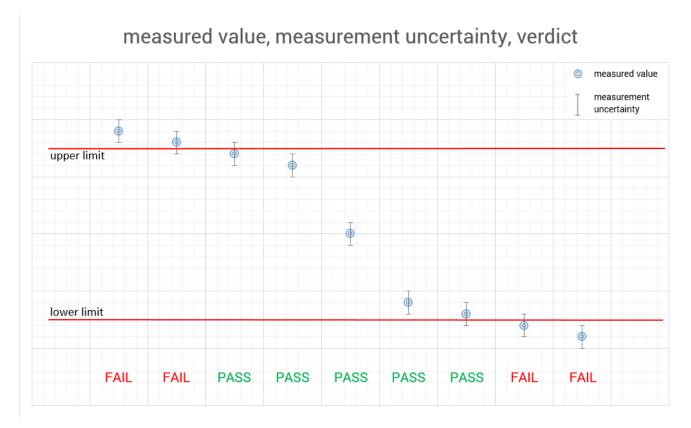
ISED Testing Laboratory Recognized Listing Number: DE0001 FCC designation number: DE0002



4 Reporting statements of conformity – decision rule

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed in chapter 3.

The measurement uncertainty is mentioned in this test report, see chapter 9, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong."





5 Test environment

Temperature	:	T _{nom} T _{max} T _{min}	 +22 °C during room temperature tests +43 °C during high temperature tests -40 °C during low temperature tests
Relative humidity content	:		55 %
Barometric pressure	:		1021 hpa
Power supply	:	V _{nom} V _{max} V _{min}	14.0 V DC 16 V 9.0 V

6 Test item

6.1 General description

Kind of test item :	Dual Wireless charger with NFC card protection and digital key functionality
Model name :	DCB
HMN :	-/-
PMN :	DCB
HVIN :	DCB
FVIN :	-/-
S/N serial number :	cond. 323000000000748501
	Rad. 32300000000246089
Hardware status :	H004
Software status :	0090
Firmware status :	-/-
Frequency band :	128 kHz
Type of radio transmission :	modulated carrier
Use of frequency spectrum :	
Type of modulation :	FSK
Number of channels :	1
Antenna :	Integrated antenna
Power supply :	9.0 V to 16 V DC
Temperature range :	-40°C to +43°C

6.2 Additional information

The content of the following annexes is defined in the QA. It may be that not all of the listed annexes are necessary for this report, thus some values in between may be missing.

Test setup and EUT photos are included in test report:

1-3567/21-03-01_AnnexA 1-3567/21-03-01_AnnexB 1-3567/21-03-01_AnnexC



7 Description of the test setup

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, RF generating and signaling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Lab/Item).

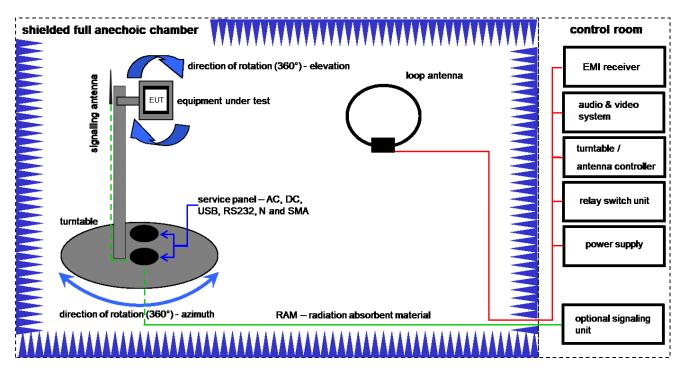
Each block diagram listed can contain several test setup configurations. All devices belonging to a test setup are identified with the same letter syntax. For example: Column Setup and all devices with an A.

Agenda: Kind of Calibration

- k calibration / calibrated
- ne not required (k, ev, izw, zw not required)
- ev periodic self verification
- Ve long-term stability recognized
- vlkl! Attention: extended calibration interval
- NK! Attention: not calibrated

- EK limited calibration
- zw cyclical maintenance (external cyclical maintenance)
- izw internal cyclical maintenance
- g blocked for accredited testing
- *) next calibration ordered / currently in progress

7.1 Shielded fully anechoic chamber



Measurement distance: loop antenna 3 meter

FS = UR + CA + AF

(FS-field strength; UR-voltage at the receiver; CA-loss of the signal path; AF-antenna factor)

Example calculation:

FS [dBµV/m] = 40.0 [dBµV/m] + (-35.8) [dB] + 32.9 [dB/m] = 37.1 [dBµV/m] (71.61 µV/m)

Equipment table:

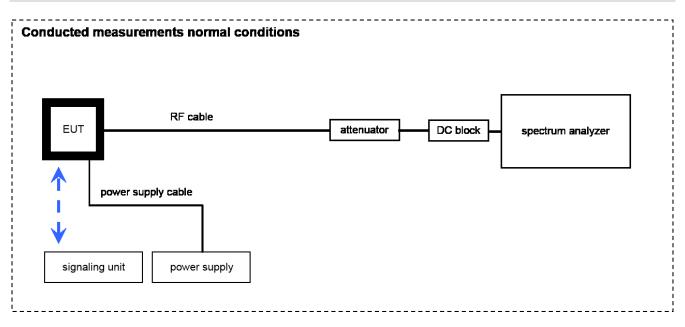
No.	Setup	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	А	Active Loop Antenna 9 kHz to 30 MHz	6502	EMCO	2210	300001015	vIKI!	01.07.2021	31.07.2023
2	А	4U RF Switch Platform	L4491A	Agilent Technologies	MY50000037	300004509	ne	-/-	-/-
3	А	NEXIO EMV- Software	BAT EMC V3.21.0.32	EMCO		300004682	ne	-/-	-/-
4	А	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev	-/-	-/-
5	А	Power Supply 0-20V	6632A	HP	2851A01814	300000924	ne	-/-	-/-
6	А	EMI Test Receiver 20Hz- 26,5GHz	ESU26	R&S	100037	300003555	k	07.12.2022	31.12.2023

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7.2 Measurements normal and extreme conditions



OP = AV + CA

(OP-output power; AV-analyzer value; CA-loss signal path)

Example calculation:

OP [dBm] = 6.0 [dBm] + 11.7 [dB] = 17.7 [dBm] (58.88 mW)

Equipment table:

No.	Catur	Setup Equipment Type Manufacturer Serial No. INV. No.	INV. No.	Kind of	Last	Next			
NO.	Setup	Equipment	Туре	wanulacturer	Serial No.	INV. NO.	Calibration	Calibration	Calibration
1	Α	HF-Cable 1 m	BPS-1551-394-BPS	Insulated Wire	080492	300001713	g	-/-	-/-
2	Α	Loop Antenna	-/-	ZEG TS Steinfurt	-/-	400001208	ev	-/-	-/-
3	Α	Signal analyzer	FSV30	Rohde&Schwarz	104365	300005923	k	13.12.2022	31.12.2023
4	A	Power Supply	HMP2020	Rohde & Schwarz	101961	300006102	k	15.12.2022	31.12.2024



8 Sequence of testing

8.1 Sequence of testing radiated spurious 9 kHz to 30 MHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, it is placed on a table with 0.8 m height.
- If the EUT is a floor standing device, it is placed directly on the turn table.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3 m (see ANSI C 63.4) see test details.
- EUT is set into operation.

Premeasurement*

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1 m.
- At each turntable position the analyzer sweeps with positive-peak detector to find the maximum of all emissions.

Final measurement

- Identified emissions during the pre-measurement are maximized by the software by rotating the turntable from 0° to 360°.
- Loop antenna is rotated about its vertical axis for maximum response at each azimuth about the EUT. (For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT)
- The final measurement is done in the position (turntable and elevation) causing the highest emissions with quasi-peak (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. A plot with the graph of the premeasurement and the limit is stored.

*)Note: The sequence will be repeated three times with different EUT orientations.



9 Measurement uncertainty

Measurement uncertainty						
Test case Uncertainty						
Occupied bandwidth	± used RBW					
Field strength of the fundamental	± 3 dB					
Field strength of the harmonics and spurious	± 3 dB					
Receiver spurious emissions and cabinet radiations	± 3 dB					
Conducted limits	± 2.6 dB					



10 Summary of measurement results

\boxtimes	No deviations from the technical specifications were ascertained
	There were deviations from the technical specifications ascertained
	This test report is only a partial test report. The content and verdict of the performed test cases are listed below.

TC Identifier	Description	Verdict	Date	Remark
	CFR Part 15	See table! 2023-05-12		
RF-Testing	RSS 216 Issue 2		2023-05-12	-/-
	RSS Gen Issue 5			

Test specification clause	Test case	Temperature conditions	Power source conditions	С	NC	NA	NP	Remark
RSS Gen Issue 5 (6.6)	Occupied bandwidth	Nominal	Nominal	\boxtimes				-/-
RSS Gen 8.9 § 15.209	Field strength of the fundamental	Nominal	Nominal	X				-/-
§ 15.209 RSS Gen Issue 5 (6.13)	Field strength of the harmonics and spurious	Nominal	Nominal	X				-/-
§15.107 §15.207	Conducted limits	Nominal	Nominal			\boxtimes		Car battery powered only!

Note: NA = Not applicable; NP = Not performed; C = Compliant; NC = Not compliant

11 Additional comments

Reference documents: Customer Questionnaire_1-35667-21_X_DCB_20230508

Special test descriptions: None

Configuration descriptions: None



12 Measurement results

12.1 Occupied bandwidth

Measurement:

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal.

Measurement parameters				
Detector:	Peak			
Resolution bandwidth:	1 % - 5 % of the occupied bandwidth			
Video bandwidth:	≥ 3x RBW			
Trace mode:	Max hold			
Analyser function:	99 % power function			
Used test setup:	See sub clause 7.2 – A			
Measurement uncertainty:	See sub clause 9			

<u>Limit:</u>

IC
for RSP-100 test report coversheet only

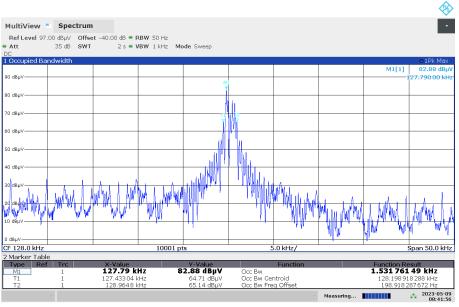
Result:

99% emission bandwidth
1.531 kHz



Plot:

Plot 1: 99 % emission bandwidth



08:41:56 AM 05/09/2023



12.2 Field strength of the fundamental

Measurement:

The maximum detected field strength for the carrier signal.

Measurement parameters				
Detector:	average			
Resolution bandwidth:	200 Hz			
Video bandwidth:	≥ 3x RBW			
Trace mode:	Max hold			
Used test setup	See sub clause 7.1 – A			
Measurement uncertainty:	See sub clause 9			

Limit:

FCC					
Frequency	Field strength / (µV/m)	Limit @ 128 kHz	Measurement distance		
128 kHz	2400 / F/kHz	18.8 μV/m 25 dBμV/m	300 m		

IC					
Frequency	Field strength / (µV/m)	Limit @ 128 kHz	Measurement distance		
128 kHz	6.37 / F/kHz	0.05 μA/m -26 dBμA/m	300 m		

<u>Result:</u>

Field strength of the fundamental					
Frequency 128 kHz					
Distance @ 3 m @ 300 m*					
Measured / calculated value	85.47 dBμV/m	5.47 dBµV/m			
Measured / calculated value	34.83 dBµA/m	-45.17 dBμA/m			

 \star) 40 dB/dec conversion factor employed



12.3 Field strength of the harmonics and spurious

Measurement:

The maximum detected field strength for the harmonics and spurious.

Measurement parameters			
Detector:	Quasi peak / average or		
Detector.	peak (worst case – pre-scan)		
	F < 150 kHz: 200 Hz		
Resolution bandwidth:	150 kHz < F < 30 MHz: 9 kHz		
	30 MHz < F < 1 GHz: 120 kHz		
	F < 150 kHz: 1 kHz		
Video bandwidth:	150 kHz < F < 30 MHz: 100 kHz		
	30 MHz < F < 1 GHz: 300 kHz		
Trace mode:	Max hold		
Used test setup: 9 kHz to 30 MHz: see sub clause 7.1 – A			
Measurement uncertainty:	ty: See sub clause 9		

<u>Limit:</u>

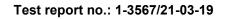
FCC				
Frequency	Field strength	Measurement distance		
(MHz)	(µV/m)	(m)		
0.009 - 0.490	2400/(F/kHz)	300		
0.490 - 1.705	24000/(F/kHz)	30		
1.705 – 30	30 (29.5 dBµV/m)	30		
30 - 88	100 (40 dBµV/m)	3		
88 - 216	150 (43.5 dBµV/m)	3		
216 - 960	200 (46 dBµV/m)	3		

IC					
Frequency	Field strength	Measurement distance			
(MHz)	(dBµA/m)	(m)			
0.009 - 0.490	2400/(F/kHz)	300			
0.490 - 1.705	24000/(F/kHz)	30			
1.705 – 30	0.08 (18.06 dBµA/m)	30			
30 - 88	100 (40 dBµV/m)	3			
88 - 216	150 (43.5 dBµV/m)	3			
216 - 960	200 (46 dBµV/m)	3			



<u>Result:</u>

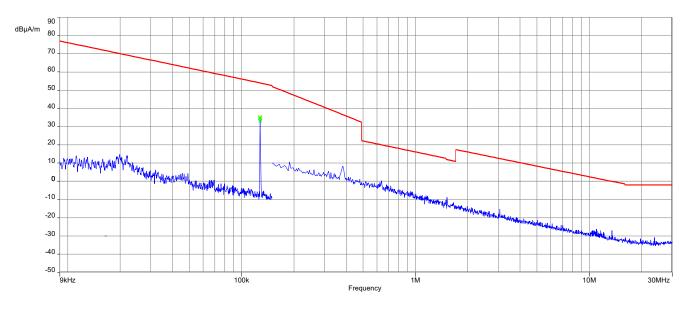
Detected emissions					
Frequency (MHz)DetectorResolution bandwidth (kHz)Detected value					
All detected peak emissions below 30 MHz are more than 20 dB below the average limit.					
For emissions above 30 MHz, please look at the table below the 1 GHz plot.					



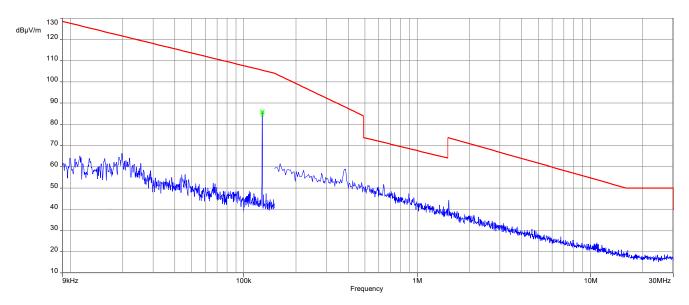


Plots:





Plot 1: 9 kHz - 30 MHz, magnetic spurious emissions FCC





13 Observations

No observations except those reported with the single test cases have been made.



14 Glossary

EUT	Equipment under test
DUT	Equipment under test Device under test
	Unit under test
UUT	
GUE	GNSS User Equipment
ETSI	European Telecommunications Standards Institute
EN	European Standard
FCC	Federal Communications Commission
FCC ID	Company Identifier at FCC
IC	Industry Canada
PMN	Product marketing name
HMN	Host marketing name
HVIN	Hardware version identification number
FVIN	Firmware version identification number
EMC	Electromagnetic Compatibility
HW	Hardware
SW	Software
Inv. No.	Inventory number
S/N or SN	Serial number
C	Compliant
NC	Not compliant
NA	Not applicable
NP	Not performed
PP	Positive peak
QP	Quasi peak
AVG	Average
00	Operating channel
OCW	Operating channel bandwidth
OBW	Occupied bandwidth
OOB	Out of band
DFS	Dynamic frequency selection
CAC	Channel availability check
OP	Occupancy period
NOP	Non occupancy period
DC	Duty cycle
PER	Packet error rate
CW	Clean wave
MC	Modulated carrier
WLAN	Wireless local area network
RLAN	Radio local area network
DSSS	Dynamic sequence spread spectrum
OFDM	Orthogonal frequency division multiplexing
FHSS	Frequency hopping spread spectrum
GNSS	Global Navigation Satellite System
C/N ₀	Carrier to noise-density ratio, expressed in dB-Hz



15 Document history

Version	Applied changes	Date of release
-/-	Initial release	2023-05-12

16 Accreditation Certificate – D-PL-12076-01-04

first page	last page	
Deutsche Deutsche Akkreditierungsstelle GmbH	Deutsche Akkreditierungsstelle GmbH	
Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGW Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition Acccreditation	Office Berlin Office Frankfurt am Main Office Braunschweig Spittelmarkt 10 Europa-Allee 52 Bundesallee 100 10117 Berlin 60327 Frankfurt am Main 38116 Braunschweig	
The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory CTC advanced GmbH Untertürkheimer Straße 6-10, 66117 Saarbrücken Is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields: Telecommunication (TC) and Electromagnetic Compatibility (EMC) for Canadian Standards		
	The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Aktrediterungsstelle GmbH (DAkkS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf. No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkkS. The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette 1 p. 3623) and the Regulation (EC) No 755/2008 of the European Parliament and of the Council of July 2008 string out the requirements for accreditation and market surveillance relating	
The accreditation certificate shall only apply in connection with the notice of accreditation of 09.06.2020 with the accreditation number D-PL-12076-0.1.1t comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 07 pages. Registration number of the certificate: D-PL-12076-01-04	to the markening of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAKAS is a signatory to the Multilateral Agreements for Nutural Recognition of the European cooperation for Accreditation (EA), International Accreditation Forum (AF) and International Laboratory Accreditation Cooperation (ILGA). The signatories to these agreements recognise each other's accreditations. The up-to-date state of membership can be retrieved from the following websites: EA: www.european-accreditation.org LAC: www.european-accreditation.org LAC: www.iaf.nu	
Frankfuit am Main, 09:06:2020 by code Upd-long. It with Egner Head of Devision The confectore together with its ansex reflects the status of the sites of the date of issue. The current status of the scope of accorditation can be found in the database of accordited bodies of Devische Akkroditierungsstrife GmidM. http://www.dddk.ddvin/content/accredited-bodies-dobka isenstamentd.		

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https://www.dakks.de/files/data/as/pdf/D-PL-12076-01-04e.pdf

or

https://ctcadvanced.com/app/uploads/2020/06/D-PL-12076-01-04_Canada_TCEMC.pdf



17 Accreditation Certificate – D-PL-12076-01-05

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The accreditation certificate shall only apply in connection with the notice of accreditation of 09.06.2020 with the accreditation number D-PL-12076-01.1 Comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 05 pages. Registration number of the certificate: D-PL-12076-01-05 Frankfurt am Main, 09.06.2020 The certificate together with the some reflects the status at the date of date of asse. The current status of the scope of accreditation can be found in the database of accreditation and be found in the database of accreditate basies. Attractive National State States and the accelerate addites and the accelerate addites addites addites addites and the accelerate addites addit	The accreditation was granted pursuant to the Act on the Accreditation Body (AddStelleG) of 31.19/2 2009 (Federal Law Gazette 1, a.2523) and the Regulation (EC) No 752/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Linua 123 of 9 July 2008, p. 30). DAdKS is a signatory to the Multilateral Agreements for Mutual Recegnition of the European co-operation for Accreditation (EA). International Accreditation formum (AF) and International Laboratory Accreditation Cooperation (LIAC). The signatories to these agreements recognise each other's accreditations. The up-to-date state of membership can be retrieved from the following websites: EA: www.uropean-accreditation.org LIAC: www.ilac.org IAF: www.ilaf.nu

Note: The current certificate annex is published on the websites (link see below).

https://www.dakks.de/files/data/as/pdf/D-PL-12076-01-05e.pdf

or

https://ctcadvanced.com/app/uploads/2020/06/D-PL-12076-01-05_TCB_USA.pdf