

PARTIAL Test Report 23-1-0025701T003a



Number of pages:	17	Date of Report:	2023-Apr-25	
Testing company:	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	Applicant:	Continental Advanced Antenna GmbH	
Product: Model:	RKE Module Base FCC RKE223E1			
Contains FCC ID:	2ACC7RKE223E1	Contains IC:	11980A-RKE223E1	
Testing has been carried out in accordance with:	 FCC Regulations: Title 47 CFR, Chapter I, Subchapter A, Subpart C: Part §15.231 ISED Regulations: RSS-210, Issue 10, Annex A.1 Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit". 			
Tested Technology:	SRD			
Test Results:	The EUT complies with the require the test. The test results relate only to devices			
Signatures:	Nr Pr		TR	

Ninovic Perez Test Lab Manager Authorization of test report

Timo Franke **Test Manager** Responsible of test report

Test Report 23-1-0025701T003a



Table of Contents

Ta	able o	of Annex	3
1	G	Seneral information	4
	1.1	Disclaimer and Notes	4
	1.2	Attestation	4
	1.3	Summary of Test Results	5
	1.4	Summary of Test Methods	5
2	А	Administrative Data	6
	2.1	Identification of the Testing Laboratory	6
	2.2	General limits for environmental conditions	6
	2.3	Test Laboratories sub-contracted	6
	2.4	Organizational Items	6
	2.5	Applicant's details	6
	2.6	Manufacturer's details	6
	2.7	Equipment under Test (EUT)	7
	2.8	Untested Variant (VAR)	7
	2.9	Auxiliary Equipment (AE)	7
	2.10	O Connected cables (CAB)	7
	2.11	Software (SW)	7
	2.12	2 EUT set-ups	7
	2.13	B EUT operation modes	7
3	E	quipment under test (EUT)	8
	3.1	General Data of Main EUT as Declared by Applicant	8
	3.2	Modifications on Test sample	8
4	Ν	Aeasurements	9
	4.1	Radiated field strength emissions 30 MHz – 1 GHz	9
	4.2	Radiated field strength emissions above 1 GHz	12
	4.3	Equipment lists	14
5	R	Results from external laboratory	15
6	C	Dpinions and interpretations	15
7	L	ist of abbreviations	15
8	Ν	Aeasurement Uncertainty valid for conducted/radiated measurements	16
9	V	/ersions of test reports (change history)	17



Table of Annex				
Annex No. Contents Reference Description Total				
Annex 1	Test result diagrams	CETECOM_TR23_1_0025701T003a-A1	4	
Annex 2	Internal photographs of EUT	Provided by applicant		
Annex 3	External photographs of EUT	CETECOM_TR23_1_0025701T003a-A3	7	
Annex 4	Test set-up photographs	CETECOM_TR23_1_0025701T003a-A4	4	
The listed attachments are separate documents.				



1 General information

1.1 Disclaimer and Notes

The test results of this test report relate exclusively to the test item specified in this test report as specified in chapter 2.7. CETECOM 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.

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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.

The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 10 years at CETECOM.

Also we refer on special conditions which the applicant should fulfill according §2.927 to §2.948, special focus regarding modification of the equipment and availability of sample equipment for market surveillance tests.

1.2 Attestation

I declare that all measurements were performed by me or under my supervision and that all measurements have been performed and are correct to my best knowledge and belief to Industry Canada standards. All of the above requirements are met in accordance with enumerated standards.



1.3 Summary of Test Results

Test case	Reference in FCC 🛛	Reference in ISED 🛛	Page	Remark	Result
Radiated field strength emissions below 30 MHz	§15.205(a) §15.209(a)	GSS-Gen: Issue 5 Chapter 8.9 Table 6		See initial module report	NP
Radiated field strength emissions 30 MHz – 1 GHz (Inclusive fundamental field strength)	§15.231(b) §15.33 §15.35	RSS-210, Issue 10, A.1.2, Table A.1	9	From 2 nd harmonic up	PASSED
Radiated field strength emissions above 1 GHz	§15.231(b) §15.33 §15.35	RSS-210, Issue 10, A.1.2, Table A.1	12	Till 6 th harmonic	PASSED
Transmitter timing:1. Deactivation of transmission2. Periodic transmission	§15.231 (a)(1)(2)(3)	RSS-210, Issue 10 A.1.1		See initial module report	NP
20 dBc bandwidth	§15.231(c)			See initial module report	NP
99% bandwidth	§2.1049	RSS-210, Issue 10, §A.1.3 RSS-Gen, Issue 5, §6.7		See initial module report	NP
		ential requirements in the the essential requiremer			•

N/A Test case does not apply to the test object. NP

The test was not performed by the CETECOM Laboratory.

Decision Rule: CETECOM GmbH follows <u>ILAC G8:2019 chapter 4.2.1 (Simple Acceptance Rule)</u>.

Remarks:

> Please check the module report "CETECOM_TR18-1-0257101T93a_C2" for not performed Measurements by the **CETECOM** laboratory.

1.4 Summary of Test Methods

Test case	Test method
Radiated field strength emissions below 30 MHz	ANSI C63.10-2013, chapter §6.3, §6.4
Radiated field strength emissions 30 MHz – 1 GHz	ANSI C63.10-2013, chapter §6.3, §6.5
Radiated field strength emissions above 1 GHz	ANSI C63.10-2013, chapter §6.3, §6.6
20 dBc bandwidth, 99% bandwidth	ANSI C63.10-2013, chapter §6.3, §6.9



2 Administrative Data

2.1 Identification of the Testing Laboratory

Company name:	CETECOM GmbH
Address:	Im Teelbruch 116
	45219 Essen - Kettwig
	Germany
Responsible for testing laboratory:	DiplIng. Ninovic Perez
Accreditation scope:	DAkkS Webpage: FCC ISED
IC Lab company No. / CAB ID:	3462D / DE0005
Test location:	CETECOM GmbH; Im Teelbruch 116; 45219 Essen - Kettwig

2.2 General limits for environmental conditions

Temperature:	22±2 °C
Relative. humidity:	45±15% rH

2.3 Test Laboratories sub-contracted

Company name:	

2.4 Organizational Items

Responsible test manager:	Timo Franke
Receipt of EUT:	2023-Mar-28
Date(s) of test:	2023-Apr-12 to 2023-Apr-14
Version of template:	22.0901

2.5 Applicant's details

Applicant's name:	Continental Advanced Antenna GmbH
Address:	Bahnhofstraße 23
	83022 Rosenheim
	Lower Saxony
	Germany
Contact Person:	Thomas Schuhbeck
Contact Person's Email:	Thomas.Schuhbeck@continental-corporation.com

2.6 Manufacturer's details

Manufacturer's name:	Continental Advanced Antenna, Sociedade Unipessoal Lda
Address:	Rua Professor Anton Kathrein
	5000-082 Vila Real
	Portugal



2.7 Equipment under Test (EUT)

EUT	Sample No.	Product	Model	Туре	SN	HW	SW
No.*)							
EUT 1	23-1-00257S12_C01	RKE Module Base	RKE223E1	Application	000131	13612160B	11.31
		FCC		sample		08V00	

*) EUT short description is used to simplify the identification of the EUT in this test report.

2.8 Untested Variant (VAR)

VAR	Sample No.	Product	Model	Туре	SN	HW	SW
No.*)							

*) The listed additional untested model variant(s) (VAR) is/are not object of evaluation of compliance. For further information please see Annex 5: Declaration of applicant of model differences.

If the table above does not show any other line than the headline, no untested variants are available.

2.9 Auxiliary Equipment (AE)

AE No.*)	Sample No.	Auxiliary Equipment	Model	SN	HW	SW
AE 1	23-1-00257517_C01	Testbox	Testbox programmable (USB)	180401C24	N/A	RKE223_V7.0
AE 2	23-1-00257S01_C01	Car	Mercedes Benz (S214) E class station wagon			

*) AE short description is used to simplify the identification of the auxiliary equipment in this test report. If the table above does not show any other line than the headline, no AE was used during testing nor was taken into account for evaluation

2.10 Connected cables (CAB)

CAB No.*)	Sample No.	Cable Type	Connectors / Details	Length
CAB 1	23-1-00257S03_C01	Cable for Testbox	Cable harness Testbox to Application sample	200 cm

*) CAB short description is used to simplify the identification of the connected cables in this test report. If the table above does not show any other line than the headline, no cable was used during testing nor was taken into account for evaluation

2.11 Software (SW)

SW No.*)	Sample No.	SW Name	Description	SW Status
SW 1		HTerm	Change Testbox power setting	0.8.5

*) SW short description is used to simplify the identification of the used software in this test report. If the table above does not show any other line than the headline, no SW was used during testing nor was taken into account for evaluation.

2.12 EUT set-ups

set-up no.*)	Combination of EUT and AE	Description
Set. 1	EUT 1 + AE 1 + AE 2 + CAB1 (+ SW 1)	Used for radiated measurements. SW 1 is just used to set testbox power level

*) EUT set-up no. is used to simplify the identification of the EUT set-up in this test report.

2.13 EUT operation modes

EUT operating mode no.*)	Operating modes	Additional information
Op. 1	ТХ	Continuous modulated transmission Power value: 0x2C Antenna 1 Channel 1

*) EUT operating mode no. is used to simplify the test report.



3 Equipment under test (EUT)

3.1 General Data of Main EUT as Declared by Applicant

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Firmware	□ for normal use	□ for normal use				
Power supply	AC Mains					
	DC Mains					
	⊠ Battery	Lead-Acid-Car battery via banana connector				
Operational conditions	T _{nom} =21 °C	T _{min} =-40 °C T _{max} =+105 °C				
EUT sample type	Production					
Weight	0.800 kg					
Size [LxWxH]	65.0 cm x 11.0 cm x 3.5 cn	ı				
Interfaces/Ports	MQS-connector + 5x Fakra	-connector				
For further details refer Applicants Declar	ation & following technical	documents				
181106_RKE-Box_Manual.pdf						
Description_Testbox_programming_detai	l.pptx					
SCN-Kodierung_MRA2_RKE223E1_J1.xlsx						

3.2 Modifications on Test sample

Additions/deviations or exclusions



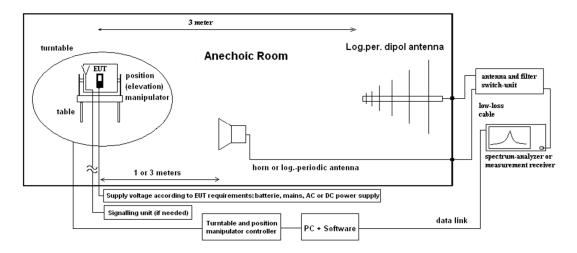
4 Measurements

4.1 Radiated field strength emissions 30 MHz – 1 GHz

4.1.1 Description of the general test setup and methodology, see below example:

Evaluating the field emissions have to be done first by an exploratory emissions measurement and a final measurement for most critical frequencies. The tests are performed in a NSA-compliant semi anechoic room (SAR) recognized by the regulatory commissions.

Schematic:



Testing method:

The measurement is made according to relevant reference clauses: (See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

Exploratory, preliminary measurements

The EUT and its associated accessories are placed on a non-conductive position manipulator (tipping device) of 0.8 m height which is placed on the turntable. By rotating the turntable (range 0° to 360°, step 90°) and the EUT itself either on 3-orthogonal axis (portable equipment) or 2-orthogonal axis (defined operational position of EUT) the emission spectrum and its characteristics was recorded with an EMI-receiver, broadband antenna and software.

Measurement antenna: horizontal and vertical, heights: 1,0 m and 1,82 m as worst-case determined by an exploratory emission measurements. The results are documented in a diagram. Critical frequencies (low margin to limit) are saved within a table for further investigations. If various operating modes are supported, further investigations are made to find the worst-case of them. Also the interconnection cables and equipment position were varied in order to maximize the emissions.

Final measurement on critical frequencies

Based on the exploratory measurements, the most critical frequencies are re-measured by main-taining the EUT's worst-case operation mode, cable position, etc. either on 10m OATS or 3m semi-anechoic room.

First a frequency zoom around the critical frequency is done to locate the frequency more precisely. After this step, for all identified critical frequencies, the maximum peak was determined.



Following parameters were varied: the turntable angle continuously in the range 0 to 360 degree, the EUT itself either over 3-orthogonal axis (not defined usage position) or 2-orthogonal axis (defined usage position). The measurement antenna height between 1 m and 4 m.

On the determined worst-case position, a final measurement with necessary bandwidth and detector according standard has been carried out

Formula:

$E_{C} = E_{R} + AF + C_{L} + D_{F} - G_{A} (1)$	AF = Antenna factor
	C _L = Cable loss
$M = L_T - E_C $ (2)	D _F = Distance correction factor (if used)
	E _c = Electrical field – corrected value
	E _R = Receiver reading
	G _A = Gain of pre-amplifier (if used)
	L _T = Limit
	M = Margin

All units are dB-units, positive margin means value is below limit.

4.1.2 Measurement Location

Test site 225911 - SAC5 - Radiated Emission <1GHz

4.1.3 Fundamental limits: FCC §15.231(b), RSS-210, Issue 10, Chapter A1.2

Frequency Range [MHz]	3 meters reference	3 meters reference measurement		Spurious settings
	Limit [µV/m]	Limit [dBµV/m]	Detector	RBW / VBW [kHz]
40.66-40.70 (Only USA)	2250	67.04		/
70-130	1250	61.93		/
130-174	1250 to 3750	61.93 to 71.48	OD Dook or AV	/
174-260	3750	71.48	QP-Peak or AV	/
260-470	3750 to 12500	71.48 to 81.93		1000 / 3000
Above 470	12500	81.93		/
Above 1000	12500	81.93		/

4.1.4 Spurious emission limits: FCC §15.231(b), RSS-210, Issue 10, Chapter A1.2

Frequency Range [MHz]	3 meters referenc	e measurement	S	Spurious settings	
	Limit [µV/m]	Limit [dBµV/m]	Detector	RBW / VBW [kHz]	
40.66-40.70 (only USA)	225	47.04		100 / 300	
70-130	125	41.93		100 / 300	
130-174	125 to 375	41.93 to 51.48		100 / 300	
174-260	375	51.48	QP-Peak or AV	100 / 300	
260-470	375 to 1250	51.48 to 61.93		100 / 300	
Above 470	1250	61.93		100 / 300	
Above 1000	1250	61.93		1000/ 3000	



4.1.5 Results for field strength of carrier

Diagram	Channel	Channel frequency	Op. Mode / Set-up no.	Maximum Level [dBµV/m]@3m	Limit: [dBµV/m]@3m	Result
	1 - low	433.47 MHz	Op. 1 / Set. 1	76.53 AV	80.81 AV	PASSED
	3 - middle	433.92 MHz	Op. 1 / Set. 1	76.44 AV	80.82 AV	PASSED
	2 - high	434.37 MHz	Op. 1 / Set. 1	76.26 AV	80.84 AV	PASSED

Remarks:

1.) For more information and graphical plot refer to Test Report CETECOM_TR23_1_0025701T001a.

2.) power level setting: 0x2C, set on AE1

3.) RF-Path 1 used due higher power levels then RF Path 2 (pre-tested)

4.) Average value includes duty-cycle correction factor of -17.35 dB due timing of transmitter (modules certification)

4.1.6 Results for spurious emissions

Diagram	Channel	Mode/Set-up	Frequency Range 600 – 1000 MHz [dBµV/m]	Result
3.01	1	Op. 1 / Set. 1	36.563 (PK) @ 966.52 MHz ¹⁾	PASSED

Remarks:

1. noise level

2. for more information and graphical plot see annex A1 CETECOM_TR23_1_0025701T003a-A1

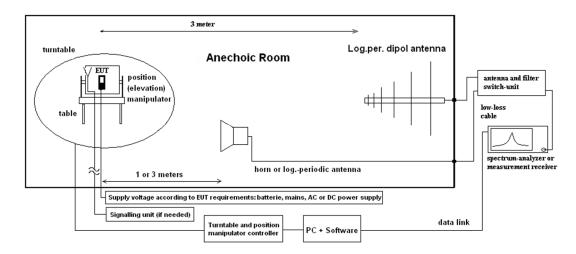


4.2 Radiated field strength emissions above 1 GHz

4.2.1 Description of the general test setup and methodology, see below example:

Evaluating the emissions have to be done first by an exploratory emissions measurement and a final measurement for most critical frequencies. The tests are performed in a CISPR 18-1-4:2010 compliant fully anechoic room (FAR) recognized by the regulatory commission. The measurement distance was set to 3 meter for frequencies up to 18 GHz and 2 meter above 18 GHz. A logarithmic periodic antenna is used for the frequency range 30 MHz to 1 GHz. Horn antennas are used for frequency range 1 GHz to 40 GHz. The EUT is aligned within 3 dB beam width of the measurement antenna with three orthogonal axis measurements on the EUT.

Schematic:



Testing method:

The measurement is made according to relevant reference clauses: (See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

Exploratory, preliminary measurements

The EUT and its associated accessories are placed on a non-conductive position manipulator (tipping device) of 1.55 m height which is placed on the turntable. By rotating the turntable (range 0° to 360°, step 15°) and the EUT itself either on 3-orthogonal axis (portable equipment) or 2-orthogonal axis (defined operational position of EUT) the emission spectrum and its characteristics was recorded with an EMI-receiver, broadband antenna and software.

The measurements are performed in horizontal and vertical polarization of the measurement antennas. The results are documented in a diagram. Critical frequencies (low margin to limit) are saved within a table for further investigations. If various operating modes are supported, further investigations are made to find the worst-case of them. Also the interconnection cables and equipment position were varied in order to maximize the emissions.

Final measurement on critical frequencies

Based on the exploratory measurements, the most critical frequencies are re-measured by main-taining the EUT's worst-case operation mode, cable position, etc.

First a frequency zoom around the critical frequency is done to locate the frequency more precisely. After this step, for all identified critical frequencies, the maximum peak was determined.



Following parameters were varied: the turntable angle continuously in the range 0 to 360 degree, the EUT itself over 3orthogonal axis and the height for EUT with large dimensions or three axis scan for portable/small equipment.

On the determined worst-case position, a final measurement with necessary bandwidth and detector according standard has been carried out.

Formula:

$E_{C} = E_{R} + A_{F} + C_{L} +$	D _F - G _A (1)	E _c = Electrical field – corrected value
		E_R = Receiver reading
$M = L_T - E_C$	(2)	M = Margin
		L _T = Limit
		A _F = Antenna factor
		C _L = Cable loss
		D _F = Distance correction factor (if used)
		G_A = Gain of pre-amplifier (if used)

All units are dB-units, positive margin means value is below limit.

4.2.2 Measurement Location

	Test site	225912 - SAC5 - Radiated Emission >1GHz
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4.2.3 Spurious emission limits: FCC §15.231(b), RSS-210, Issue 10, Chapter A1.2

Frequency Range [MHz]	3 meters reference	measurement	Spurious settings		
	Limit [µV/m]	Limit [dBµV/m]	Detector	RBW / VBW [kHz]	
Above 1000	1250	61.93	QP-Peak or AV	1000/ 3000	

4.2.4 Result

Diagram Channel Mode		Mode/Set-up	Maximum Level [dBµV/m] Frequency Range 1 – 2.7 GHz	Result
4.01	1	Op. 1 / Set. 1	52.836 (PK) @ 2.647 GHz ¹⁾ 42.451 (AV) @ 2.661 GHz ¹⁾	PASSED

Remark:

1. noise level

2. for more information and graphical plot see annex A1 CETECOM_TR23_1_0025701T003a-A1



4.3 Equipment lists

ID	Description	Manufacturer	SerNo	CheckType	Last Check	Interval	Next Check
	225911 - SAC5 - Radiated Emission <1GHz			calchk	cal: 2016-Apr-05	cal: 120M	cal: 2026-Apr-05
					chk: 2021-Jan-20	chk: 12M	chk: 2022-Jan-20
25357	Ultrabroadband Antenna HL562E	Rohde & Schwarz Messgerätebau GmbH	100824	cal	cal: 2020-Oct-09	cal: 36M	cal: 2023-Oct-09
	225912 - SAC5 - Radiated Emission >1GHz			calchk	cal: 2016-May-04	cal: 120M	cal: 2026-May-04
					chk: 2021-May-19	chk: 12M	chk: 2022-May-19
25316	Multifunction AC/DC Power Source Netwave 20	EM TEST GmbH / Kamen	V1227113059	cal	cal: 2021-May-20	cal: 36M	cal: 2024-May-20
25348	Test Receiver ESR7	Rohde & Schwarz Messgerätebau GmbH /	101600	cal	cal: 2021-Aug-09	cal: 24M	cal: 2023-Aug-09
		Memmingen					
25352	Open Switch and control Platform OSP120	Rohde & Schwarz Messgerätebau GmbH	101542-rV	cpu			
25358	Semi Anechoic Chamber SAC5	Albatross Projects GmbH / Nattheim	P27281-016	cal	cal: 2022-Aug-12	cal: 10Y	cal: 2032-Aug-12
25360	Antenna Mast BAM 4.5-P	maturo GmbH / Pfreimd	BAM 4.5-	cnn	cal: -	cal: -	cal: -
			P/091/17791115		chk: -	chk: -	chk: -
25361	Controller NCD	maturo GmbH	NCD/202/17791115	cnn	cal: -	cal: -	cal: -
					chk: -	chk: -	chk: -
25376	Measurement Software EMC32 [SAC5]	Rohde & Schwarz Messgerätebau GmbH	v10.60.10	cnn	cal: -	cal: -	cal: -
					chk: -	chk: -	chk: -

Tools used in 'P1M1'

4.3.1 Legend

Note / remarks	Interval of calibration & Verification			
12M	12 months			
24M	24 months			
36M	36 months			
10Y	10 Years			

Abbreviation Check Type	Description		
cnn	Calibration and verification not necessary		
cal Calibration			
calchk	Calibration plus intermediate Verification		
chk	Verification		
сри	Verification before usage		



5 Results from external laboratory

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None

6 Opinions and interpretations

None

7 List of abbreviations

None



8 Measurement Uncertainty valid for conducted/radiated measurements

The reported uncertainties are calculated based on the standard uncertainty multiplied with the appropriate coverage factor **k**, such that a confidence level of approximately 95% is achieved. For uncertainty determination, each component used in the concrete measurement set-up was taken in account and it contribution to the overall uncertainty according its statistical distribution calculated.

lssue No.	Measurement type	Reference	Frequence of measure Start [MHz]		Calculated Uncertainty based on confidence level of 95.54%	Remarks
1	Magnetic field strength	FCC15/18/22/ 24/27/90, ISED	0.009	30	4.86	Magnetic loop antenna, Pre-amp on
2	RF-Output power (eirp) Unwanted emissions (eirp) [dB]	FCC15/18 / ISED	30 30 100 100 1000 1000 18000 33000 40000 50000 50000 75000 90000 140000 225000 325000	100 100 1000 18000 33000 50000 75000 110000 140000 225000 325000 500000	4.57 4.91 4.02 4.26 5.23 4.92 4.17 4.69 4.06 4.17 5.49 6.22 7.04 8.84	without Pre-Amp with PreAmp with PreAmp with Vith Vith PreAmp with PreAmp with PreAmp Schwarzbeck BBHA9170 (#20302) Antenna set-up non-waveguide antenna) Set-up U-Band (WR-22), non-wave guide antenna Set-up U-Band (WR-22), non-waveguide antenna External Mixer set-up V-Band (WR-15) External Mixer set-up V-Band (WR-6) External Mixer set-up G-Band (WR-6) External Mixer set-up G-Band (WR-5) External Mixer set-up (WR-3) External Mixer set-up (WR-2)
3	Radiated Blocking [dB]	EN303883	1000 18000 33000 50000 75000	18000 33000 50000 75000 110000	2.85 4.66 3.48 3.73 4.26	Typical set-up with microwave generator and antenna, value for 7GHz calculated Typical set-up with microwave generator and antenna WR-22 set-up WR-15 set-up WR-6 set-up
4	Frequency Error / UWB+FMCW [kHz] Frequency Error / NFC	EN303883 FCC 15	40000 6000	77000 7000	276.19 33.92	calculated for 77 GHz (FMCW) carrier calculated for 6.5GHz UWB Ch.5
	[Hz]	FCC 15	11.00	14.00	20.76	calculated for 13.56MHz NFC carrier
5	TS 8997 conducted Parameters	FCC15/18 / ISED	30 30 30 0.009 2.4 5.18 5.18 30 30 30	6000 6000 7500 30 2.48 5.825 5.825 5.825 6000 6000 6000	1.11 1.20 1.20 2.56 1.95 ppm 7.180 ppm 0.11561µs 1.85 1.85 1.62	Power measurement with Fast-sampling-detector Power measurement with Spectrum-Analyzer Orducted Spurious emissions: Conducted Spurious emissions: Sconducted Spurious emissions: Bandwidth / 2-Marker Method for 2.4GHz ISM Bib. Bandwidth / 2-Marker Method for 5GHz WLAN Frequency (Marker method) for 5GHz WLAN B Medium-Utilization factor / Timing Blocking-Level of companion device Blocking Generator level
6	Conducted emissions	EN303883 FCC 15	0.009	30	3.57	



9 Versions of test reports (change history)

Version	Applied changes	Date of release
	Initial release	2023-Apr-25

End Of Test Report