		CTC advanced							
Bundesnetzagentur TEST REPORT									
BNetzA-CAB-02/21-102	Test report no.: 1	-8780/19-01-02-A							
Testing	laboratory	Applicant							
according to DIN EN IS Deutsche Akkreditierungs The accreditation is va procedures as stated ir	rmany 0 9075 dvanced.com weed.com wratory: area of testing) is accredited SO/IEC 17025 (2005) by the	Sennheiser electronic GmbH & Co. KG Am Labor 1 30900 Wedemark / GERMANY Phone: +49 5130 600-0 Contact: Nils Knauer e-mail: <u>Nils.Knauer@sennheiser.com</u> Phone: +49 5130/600-9524 Manufacturer Sennheiser electronic GmbH & Co. KG Am Labor 1 30900 Wedemark / GERMANY							
	Test sta	ndard/s							
FCC - Title 47 CFR Part 74		Federal Regulations; Chapter I; Part 74 - Experimental cast and other program distributional services							
RSS - 210 Issue 9	RSS - 210 Issue 9 Spectrum Management and Telecommunications Radio Standards Specification - Licence-Exempt Radio Apparatus: Category I Equipment								
RSS - Gen Issue 5 Spectrum Management and Telecommunications Radio Standards Specification - General Requirements for Compliance of Radio Apparatus For further applied test standards please refer to section 3 of this test report.									
Test Item									

	lest item	
Kind of test item:	Wireless Microphone	
Model name:	SKM 9000 / SKM 6000	
FCC ID:	DMOSKM9000	
IC:	2099A-SKM9000	and the second second
Frequency:	470.200 MHz – 607.800 MHz	
Technology tested:	Digital Audio Transmission	
Antenna:	Integrated antenna	
Power supply:	2.65 V to 3.45 V DC by 2x AA batteries	the second s
Temperature range:	-30°C to +50°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:

Marco Bertolino Lab Manager Radio Communications & EMC

Test performed:

Tobias Wittenmeier Testing Manager Radio Communications & EMC



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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.

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This test report replaces the test report with the number 1-8780/19-01-02 and dated 2019-12-10

2.2 Application details

Date of receipt of order:	2019-10-17
Date of receipt of test item:	2019-11-29
Start of test:	2019-12-02
End of test:	2019-12-03
Person(s) present during the test:	-/-

2.3 Test laboratories sub-contracted

None



3 Test standard/s, references and accreditations

Test standard	Date	Description				
FCC - Title 47 CFR Part 74		FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 74 - Experimental radio, auxiliary, special broadcast and other program distributional services				
RSS - 210 Issue 9	August 2016	Spectrum Management and Telecommunications Radio Standards Specification - Licence-Exempt Radio Apparatus: Category I Equipment				
RSS - Gen Issue 5	April 2018	Spectrum Management and Telecommunications Radio Standards Specification - General Requirements for Compliance of Radio Apparatus				
Guidance	Version	Description				
ANSI C63.4-2014 ANSI C63.10-2013 ETSI EN 300 422-1 V1.4.2	-/- -/- 2011-08	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU				
Accreditation	Descriptio	n				
D-PL-12076-01-04	Telecommunication and EMC Canada https://www.dakks.de/as/ast/d/D-PL-12076-01-04.pdf					
D-PL-12076-01-05		Telecommunication FCC requirements https://www.dakks.de/as/ast/d/D-PL-12076-01-05.pdf				



4 **Test environment**

Temperature	:	T _{nom} T _{max} T _{min}	+22 °C during room temperature tests No tests under extreme temperature conditions performed. No tests under extreme temperature conditions performed.
Relative humidity content	:		55 %
Barometric pressure :			1021 hpa
Power supply	:	V _{nom} V _{max} V _{min}	 3.0 V DC by 2x AA batteries No tests under extreme temperature conditions performed. No tests under extreme temperature conditions performed.

5 **Test item**

5.1 **General description**

Kind of test item :	Wireless Microphone
Model name :	SKM 9000 / SKM 6000
HMN :	-/-
PMN :	SKM 9000 / SKM 6000
HVIN :	SKM 9000 / SKM 6000
FVIN :	1.1.48
S/N serial number :	No information available
Hardware status :	572022
Software status :	N/A
Firmware status :	1.1.48
Frequency band :	470.200 MHz – 607.800 MHz Frequency range: A1 - A4: 470.2 MHz, 514.0 MHz, 558.0 MHz A5 - A8 US: 550.0 MHz, 579.0 MHz, 607.8 MHz
Type of radio transmission : Use of frequency spectrum :	Modulated carrier
Type of modulation :	Pi/4 DQPSK
Number of channels :	A1-A4: 420 A5-A8: 290
Antenna :	Integrated antenna
Power supply :	2.65 V to 3.45 V DC by 2x AA batteries
Temperature range :	-30°C to +50°C

5.2 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:

1-8780_19-01-01_AnnexA 1-8780_19-01-01_AnnexB 1-8780_19-01-01_AnnexC



6 Description of the test setup

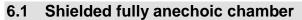
Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements 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).

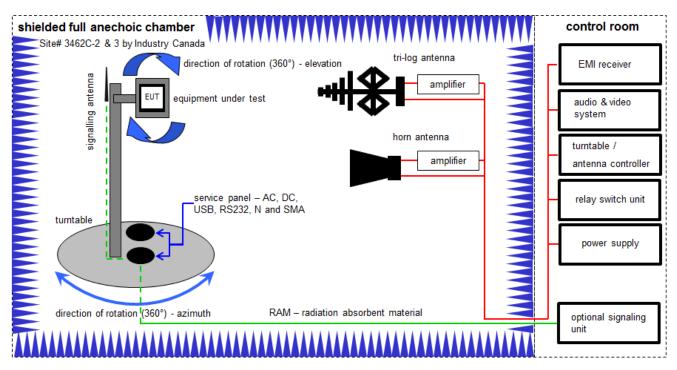
In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Lab/Item).

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





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member of RWTÜV group

Measurement distance: tri-log antenna and horn antenna 3 meter

OP = AV + D - G + CA

(OP-radiated output power; AV-analyzer value; D-free field attenuation of measurement distance; G-antenna gain+amplifier gain; CA-loss signal path)

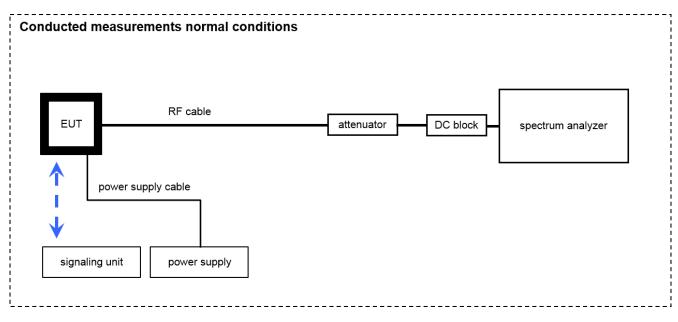
<u>Example calculation:</u> OP [dBm] = -65.0 [dBm] + 50 [dB] - 20 [dBi] + 5 [dB] = -30 [dBm] (1 µW)

Equipment table:

No.	Lab / Item	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	A,B	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev	-/-	-/-
2	В	Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	9107-3697	300001605	viKi!	27.02.2019	26.02.2021
3	A,B	Switch / Control Unit	3488A	HP	*	300000199	ne	-/-	-/-
4	A,B	EMI Test Receiver 20Hz- 26,5GHz	ESU26	R&S	100037	300003555	k	14.09.2018	13.12.2019
5	В	Highpass Filter	WHK1.1/15G-10SS	Wainwright	3	300003255	ev	-/-	-/-
6	А	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck Mess - Elektronik	295	300003787	viKi!	19.02.2019	18.02.2021
7	В	Broadband Amplifier 0.5-18 GHz	CBLU5184540	CERNEX	22049	300004481	ev	-/-	-/-
8	A,B	4U RF Switch Platform	L4491A	Agilent Technologies	MY50000037	300004509	ne	-/-	-/-
9	A,B	NEXIO EMV- Software	BAT EMC V3.19.1.9	EMCO		300004682	ne	-/-	-/-
10	A,B	PC	ExOne	F+W		300004703	ne	-/-	-/-



6.2 Conducted measurements



OP = AV + CA

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

<u>Example calculation:</u> OP [dBm] = 6.0 [dBm] + 11.7 [dB] = 17.7 [dBm] (58.88 mW)

Equipment table:

No.	Lab / Item	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	A	Power Supply	2X30V	Zentro	870008	300000830	NK!	-/-	-/-
2	А	Arbitrary Function Generator	33220A	Agilent Technologies	MY44051717	300004164	vIKI!	11.12.2017	10.12.2019
3	A	Signal- and Spectrum Analyzer 2 Hz - 26 GHz	FSW26	R&S	101455	300004528	k	19.12.2018	18.12.2019
4	Α	RF Cable BNC	RG58	Huber & Suhner		400001209	ev	-/-	-/-

7 Measurement uncertainty

Measurement uncertainty						
Test case	Uncertainty					
Transmitter output power	± 3 dB					
Occupied bandwidth	± 3 kHz to 10 kHz (depends on the used RBW)					
Transmitter frequency stability	± 1 Hz to 1 kHz (depends on the used RBW)					
Transmitter unwanted emissions (radiated or conducted)	Radiated: ± 3 dB Conducted: ± 0.5 dB					
Modulation characteristics	-/-					
Necessary bandwidth (BN) for analogue systems	± 1 kHz (depends on the used RBW)					
Frequency modulation	± 3 kHz (depends on the used RBW)					
Spurious emissions conducted below 30 MHz (AC conducted)	± 2.6 dB					



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.

CTC I advanced

TC Identifier	Description	Verdict	Date	Remark
	FCC Part 74			
RF-Testing	RSS - 210, Issue 9	See table!	2019-12-12	-/-
5	RSS-Gen Issue 5			

Test specification clause	Test case	Temperature conditions	Voltage conditions	С	NC	NA	NP	Remark
FCC Part 74.861 (e)(1)(ii) FCC Part 2.1046) RSS-210 – G.3.1 RSS-Gen – Issue 5	Transmitter output power	Nominal	Nominal	X				-/-
FCC Part 74.861 (e)(5) FCC Part 2.1049 RSS-210 – G.3.2 RSS-Gen – Issue 5	Occupied bandwidth	Nominal	Nominal	X				-/-
FCC Part 74.861 (e)(4) FCC Part 2.1055	Transmitter frequency	Nominal	Nominal					-/-
RSS-210 – G.3.3 RSS-Gen – Issue 5	stability	Extreme	Extreme					,
FCC Part 74.861 (e)(6) FCC Part 74.861 (e)(7) RSS-210 – G.3.4 ETSI EN 300 422-1 v1.4.2 (2011-08)	Transmitter unwanted emissions (radiated or conducted)	Nominal	Nominal	×				-/-
FCC Part 2.1047	Modulation characteristics	Nominal	Nominal	-/-		-/-		
FCC Part 74.861 (e)(7) ETSI EN 300 422-1 v1.4.2 (2011-08)	Necessary bandwidth (BN) for analogue systems	Nominal	Nominal					-/-
FCC Part 74.861 (e)(3) RSS-210 – G.3.5.2	Frequency modulation	Nominal	Nominal					-/-
FCC Part 74.861 (e)(7) RSS-210 – G.3.4	Receiver spurious emissions	Nominal	Nominal					No receiver integrated!
FCC Part 15.107(a) FCC Part 15.207	Conducted emissions < 30 MHz	Nominal	Nominal					-/-

<u>Note:</u> C = Compliant; NC = Not compliant; NA = Not applicable; NP = Not performed

Test report no.: 1-8780/19-01-02-A



9 Additional comments

Reference documents:	None	
Special test descriptions:	None	
Configuration descriptions:	The E	UT has been tested in LD Mode (Link Density Mode)
Test mode:	\boxtimes	No test mode available. Test signal is applied to the transmitter.
		Special software is used. EUT is transmitting pseudo random data by itself
Antennas and transmit operating modes:		 Operating mode 1 (single antenna) Equipment with 1 antenna, Equipment with 2 diversity antennas operating in switched diversity mode by which at any moment in time only 1 antenna is used, Smart antenna system with 2 or more transmit/receive chains, but operating in a mode where only 1 transmit/receive chain is used)
		 Operating mode 2 (multiple antennas, no beamforming) Equipment operating in this mode contains a smart antenna system using two or more transmit/receive chains simultaneously but without beamforming.
		 Operating mode 3 (multiple antennas, with beamforming) Equipment operating in this mode contains a smart antenna system using two or more transmit/receive chains simultaneously with beamforming. In addition to the antenna assembly gain (G), the beamforming gain (Y) may have to be taken into account when performing the measurements.



10 **Measurement results**

10.1 Transmitter output power

Measurement:

Measurement parameter			
Detector:	Peak (worst case) / Average (RMS)		
Sweep time:	Auto / 20s		
Resolution bandwidth:	> emission bandwidth		
Video bandwidth:	> resolution bandwidth		
Span:	> 2 times emissions bandwidth		
Trace mode:	Max. hold		
EUT configuration:	Peak: Transmitter without NF tone RMS: Modulate the transmitter with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of ± 75 kHz, or to produce 50% of the manufacturer's rated deviation, whichever is less.		
Test setup:	See sub clause 6.1A & 6.2A		
Measurement uncertainty:	See sub clause 7		

Limits:

FCC & IC

470 MHz to 608 MHz 250 mW (average) / 24 dBm (average)

Result:

A1-A4

	transmitter output power (dBm)					
Frequency (MHz)	Cond	lucted	e.r	ър.	e.i.	r.p.
	Peak	Average	Peak	Average	Peak	Average
470.2	-1.7	-5.4	0.8	-2.9	3.0	-0.8
514.0	-0.8	-4.6	4.5	0.7	6.7	2.9
558.0	-0.9	-4.6	6.2	2.5	8.4	4.7

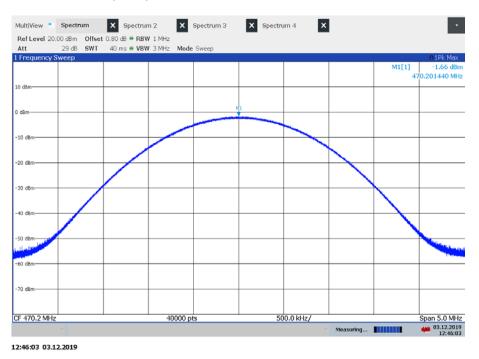
A5-A8

	transmitter output power (dBm)					
Frequency (MHz)	Cond	ucted	e.r	.р.	e.i.	r.p.
	Peak	Average	Peak	Average	Peak	Average
550.0	-4.0	-7.7	-0.6	-4.3	2.0	-2.2
579.0	-1.7	-5.4	2.8	-0.9	5.0	1.3
607.8	-1.9	-5.6	3.6	-0.1	5.8	2.1



Plots: A1-A4

Plot 1: lowest channel, conducted peak power

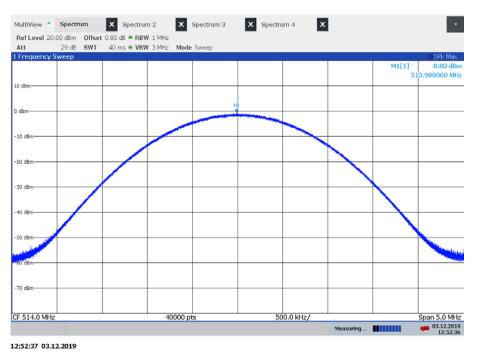


Plot 2: lowest channel, conducted average power

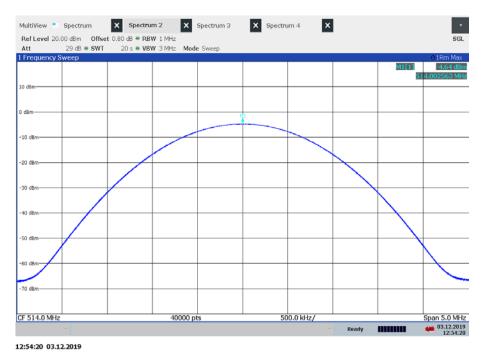




Plot 3: middle channel, conducted peak power

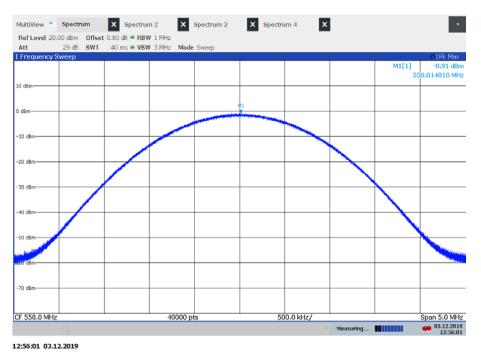


Plot 4: middle channel, conducted average power

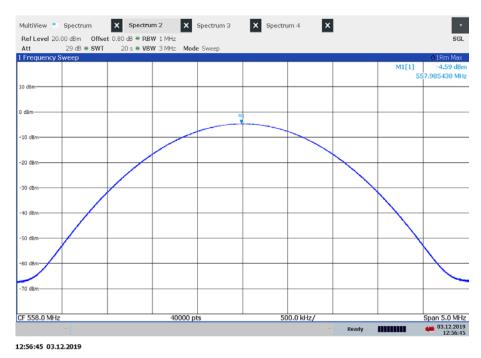




Plot 5: highest channel, conducted peak power



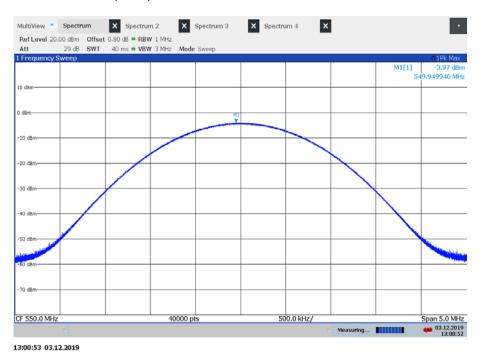
Plot 6: highest channel, conducted average power



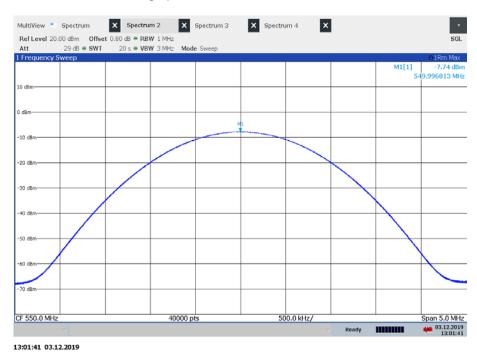


Plots: A5-A8

Plot 1: lowest channel, conducted peak power

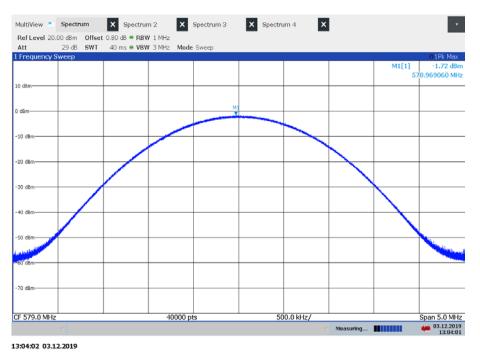


Plot 2: lowest channel, conducted average power





Plot 3: middle channel, conducted peak power

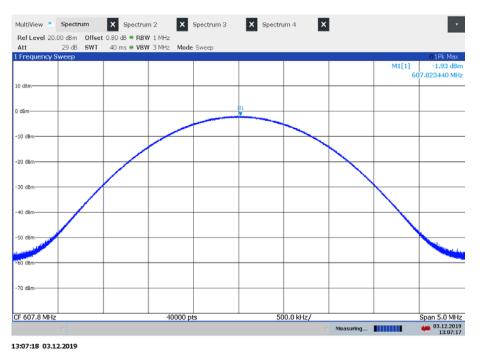


Plot 4: middle channel, conducted average power





Plot 5: highest channel, conducted peak power



Plot 6: highest channel, conducted average power





10.2 Occupied bandwidth

Measurement:

Measurement parameter			
Detector:	Peak		
Sweep time:	Auto		
Resolution bandwidth:	1 % to 5 % of the occupied bandwidth		
Video bandwidth:	3 x resolution bandwidth		
Span:	2 x emission bandwidth		
Trace mode:	Max. hold		
Analyzer function:	99% power occupied bandwidth function		
EUT:	Modulated signal with max. frequency deviation		
Test setup:	See sub clause 6.2A		
Measurement uncertainty:	See sub clause 7		

Limits:

FCC & IC

470 MHz to 608 MHz 200 kHz

Occupied bandwidth 99%. Other than single sideband or independent sideband transmitters – when modulated by a 2500 Hz tone at an input level 16 dB greater than that necessary to produce 50 percent modulation. The input level shall be established at the frequency of maximum response of the audio modulating circuit.

Result:

A1-A4

Occupied bandwidth				
Channels	OBW	Lowest frequency	Highest frequency	
470.2 MHz	103.03			
514.0 MHz	102.87	470.148	558.015	
558.0 MHz	101.75			

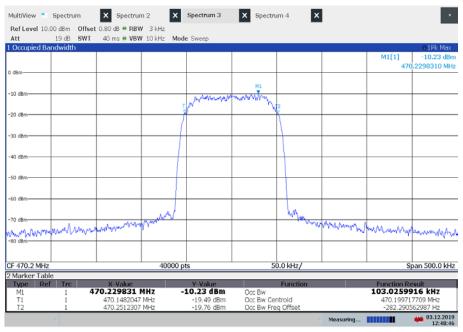
A5-A8

Occupied bandwidth				
Channels	OBW	Lowest frequency	Highest frequency	
550.0 MHz	102.81			
579.0 MHz	102.47	549.949	607.851	
607.8 MHz	102.68			



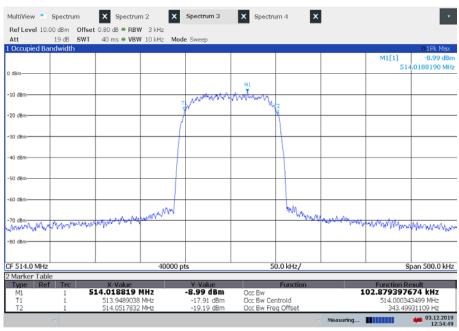
Plots: A1-A4

Plot 1: lowest channel



12:48:47 03.12.2019

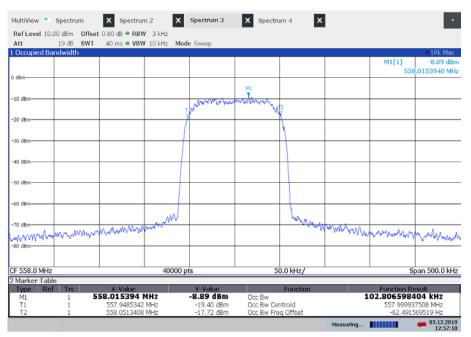
Plot 2: middle channel



12:54:49 03.12.2019



Plot 3: highest channel

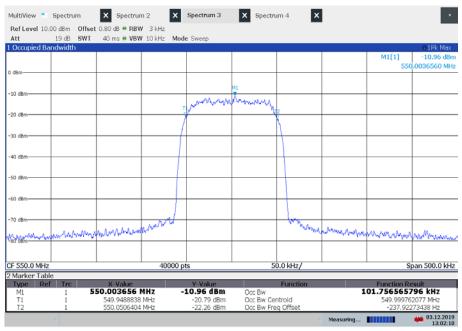


12:57:11 03.12.2019



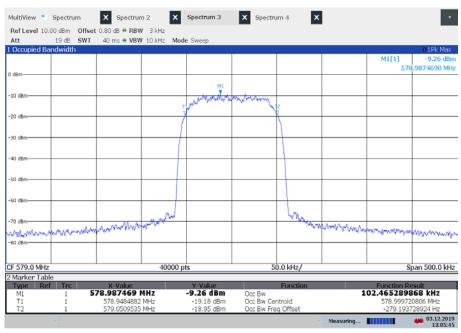
Plots: A5-A8

Plot 1: lowest channel



13:02:10 03.12.2019

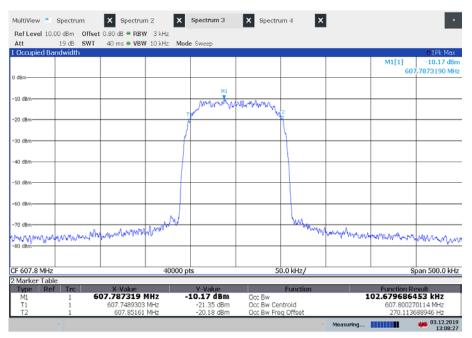
Plot 2: middle channel



13:05:46 03.12.2019



Plot 3: highest channel



13:08:28 03.12.2019



10.3 Transmitter unwanted emissions (radiated)

Measurement:

Measurement parameter	
Detector:	Peak (prescan) / RMS
Sweep time:	Auto
Resolution bandwidth:	See table below!
Video bandwidth:	See table below!
Span:	100 MHz steps!
Trace-Mode: Max. hold	
EUT: MC with max frequency devia	
Used equipment: See sub clause 6.1A,B & 6.	
Measurement uncertainty:	See chapter 7

Frequency being measured	Measuring receiver bandwidth
25 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1 000 MHz	100 kHz
> 1 000 MHz	1 MHz

Limits:

FCC & IC (according to ETSI EN 300 422-1 v1.4.2 (2011-08))				
	Max. spurious level			
State	47 MHz to 74 MHz 87.5 MHz to 118 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies ≤ 1000 MHz	All frequencies > 1000 MHz	
Operating	4.0 nW	250 nW	1.00 µW	
Standby	2.0 nW	2.0 nW	20.0 nW	

FCC & IC				
The mean power of emissions shall be attenuated below				
accordance with the follow	ing schedule:			
On any frequency removed from the operating frequency by				
more than 50 percent up to and including 100 percent of the	25 dB			
authorized bandwidth: at least				
On any frequency removed from the operating frequency by				
more than 100 percent up to and including 250 percent of	35 dB			
the authorized bandwidth				
On any frequency removed from the operating frequency by				
more than 250 percent of the authorized bandwidth: at least	43 + 10log10 (mean output power in watts) dB			

Test report no.: 1-8780/19-01-02-A



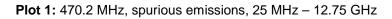
Results:

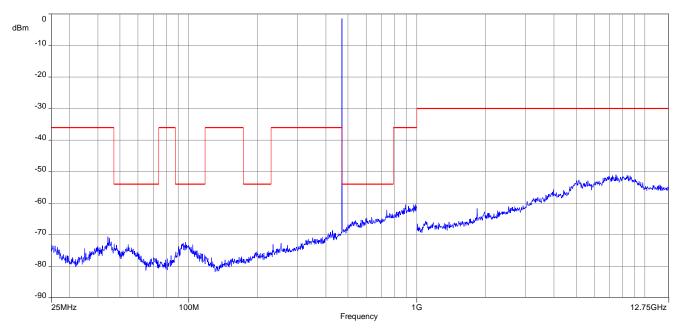
carrier frequency (MHz)	unwanted emission frequency (MHz)	Limit	level (dB) / (dBm) or remark	
All detected emissions are more than 20 dB below the limit.				

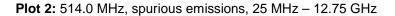
Test report no.: 1-8780/19-01-02-A

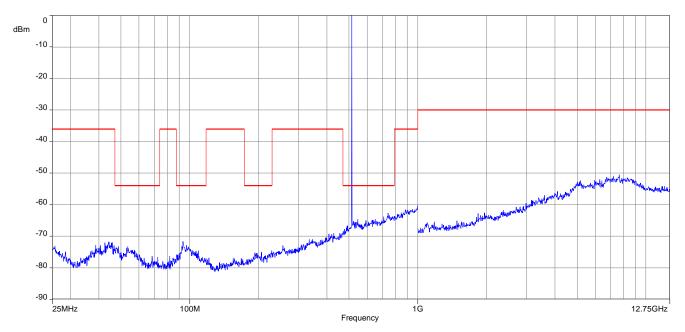


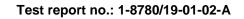
Plots: radiated

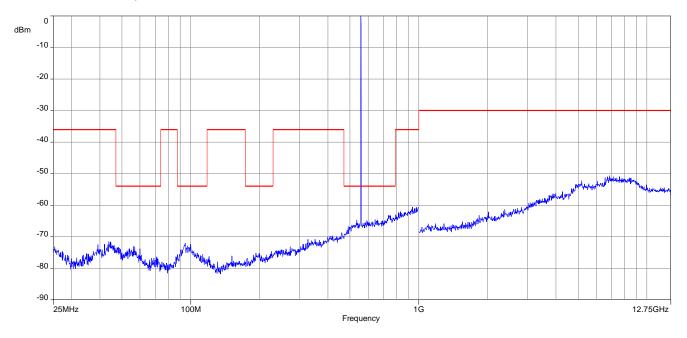




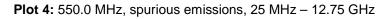


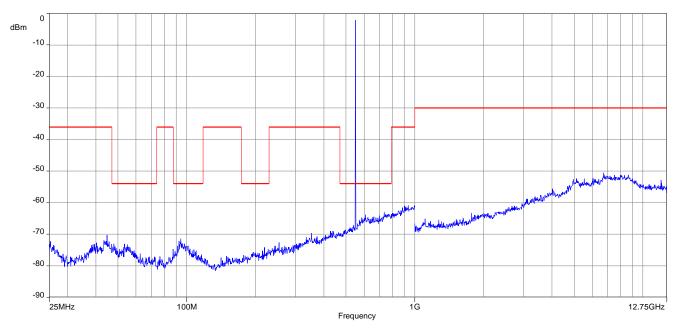




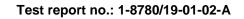


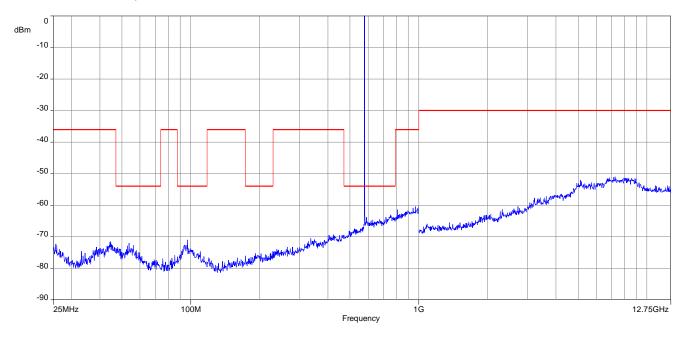
Plot 3: 558.0 MHz, spurious emissions, 25 MHz – 12.75 GHz



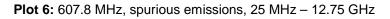


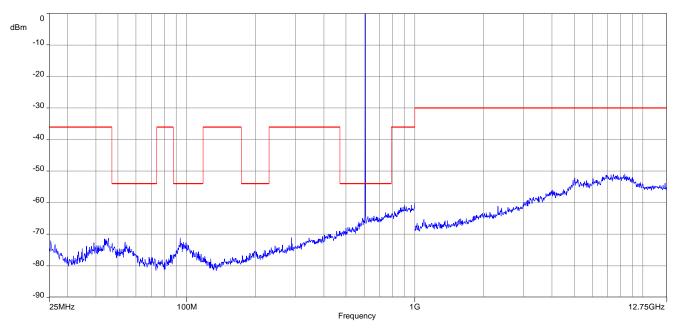
CTC I advanced





Plot 5: 579.0 MHz, spurious emissions, 25 MHz – 12.75 GHz

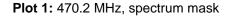


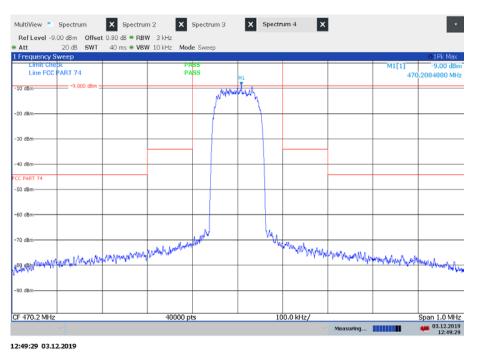


CTC I advanced

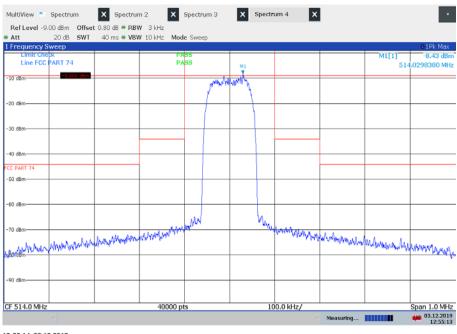


Plots: conducted,

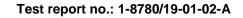


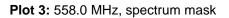


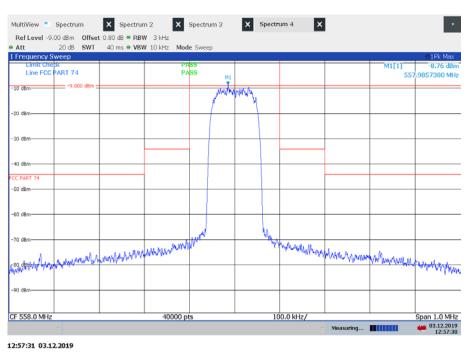
Plot 2: 514.0 MHz, spectrum mask



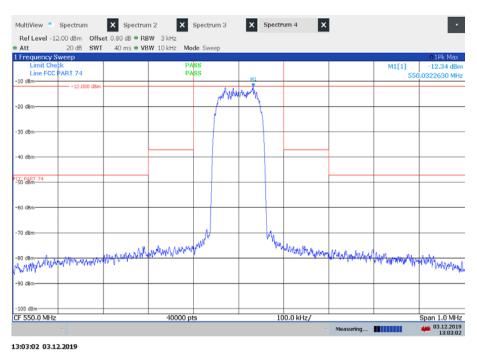
12:55:14 03.12.2019







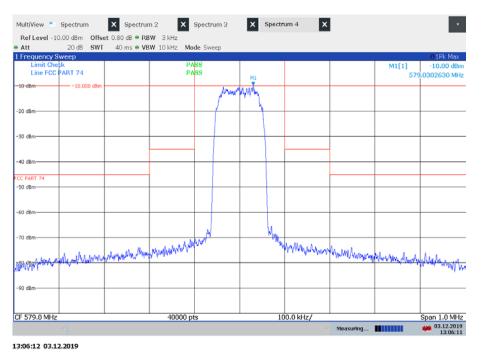
Plot 4: 550.0 MHz, spectrum mask



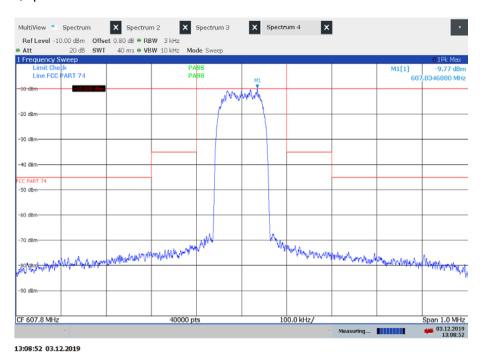
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Plot 5: 579.0 MHz, spectrum mask



Plot 6: 607.8 MHz, spectrum mask





11 Observations

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

Test report no.: 1-8780/19-01-02-A



Annex A Glossary

EUT	Equipment under test		
DUT	Device under test		
UUT	Unit under test		
GUE			
ETSI	GNSS User Equipment		
	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		



Annex B Document history

Version	Applied changes	Date of release
-/-	Initial release	2019-12-10
-A	Editorial Changes (Section 9)	2019-12-12

Annex C Accreditation Certificate – D-PL-12076-01-04



Note: The current certificate annex is published on the website (link see below) of the Accreditation Body DAkkS or may be received by CTC advanced GmbH on request

https://www.dakks.de/as/ast/d/D-PL-12076-01-04.pdf





Note: The current certificate annex is published on the website (link see below) of the Accreditation Body DAkkS or may be received by CTC advanced GmbH on request

https://www.dakks.de/as/ast/d/D-PL-12076-01-05.pdf