

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

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

Test Item				
Kind of test item:	Professional UHF band wireless microphone			
Model name:	ATW-T3202aEE1			
FCC ID:	JFZT3202AEE1			
Frequency:	530.000MHz – 589.975MHz			
Technology tested:	proprietary			
Antenna:	Integrated antenna			
Power supply:	2.4 V to 3.2 V DC			
Temperature range:	-5°C to +45°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:

Christoph Schneider Lab Manager Radio Communications

Test performed:

Hans-Joachim Wolsdorfer Lab Manager Radio Communications



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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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2.2 **Application details**

Date of receipt of order: 2022-11-21 Date of receipt of test item: 2022-11-30 Start of test:* 2022-12-01 End of test:* 2022-12-08 -/-

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



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			
ETSI EN 300 422-1 V1.4.2	2011-08	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 1: Technical characteristics and methods of measurement			
Guidance	Version	Description			
ANSI C63.4-2014 ANSI C63.10-2013	-/-	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			
7.101 000.10 2010	,	Testing of Unlicensed Wireless Devices			
Accreditation	Description	n			
D-PL-12076-01-05		Telecommunication FCC requirements https://www.dakks.de/as/ast/d/D-PL-12076-01-05e.pdf			

3 Test standard/s, references and accreditations

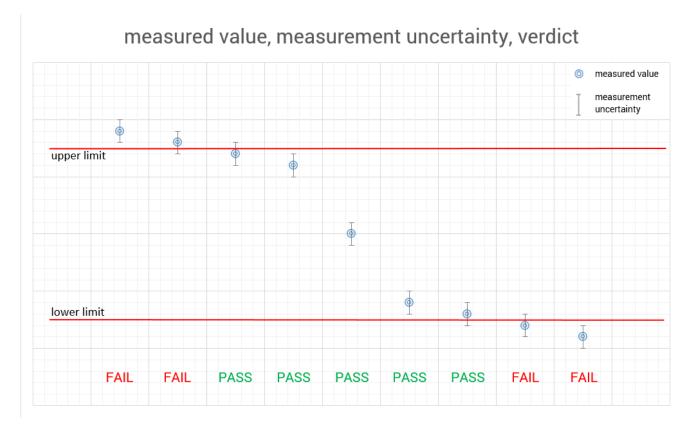
FCC designation number: DE0002



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**

		-	
		Tnom	+22 °C during room temperature tests
Temperature	:	T _{max}	+45 °C during high temperature tests
		T_{min}	-5 °C during low temperature tests
Relative humidity content	•••		55 %
Barometric pressure	•••		1021 hpa
		V_{nom}	3.0 V DC
Power supply	:	V_{max}	3.2 V
		V_{min}	2.4 V

6 **Test item**

General description 6.1

Kind of test item :	Professional UHF band wireless microphone				
Model name :	ATW-T3202aEE1				
S/N serial number :	Rad.EE1 sample no.2Cond.EE1 sample no.3				
Hardware status :	Ver. 1.0				
Software status :	999.999.001				
Firmware status :	99.999.001				
Frequency band :	530.000MHz – 589.975MHz				
Type of radio transmission : Use of frequency spectrum :	modulated carrier				
Type of modulation :	FM				
Number of channels :	2400				
Antenna :	Integrated antenna				
Power supply :	2.4 V to 3.2 V DC				
Temperature range :	-5°C to +45°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:

1-5411_22-02-06_AnnexA 1-5411_22-02-01_AnnexB 1-5411_22-02-01_AnnexD



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.

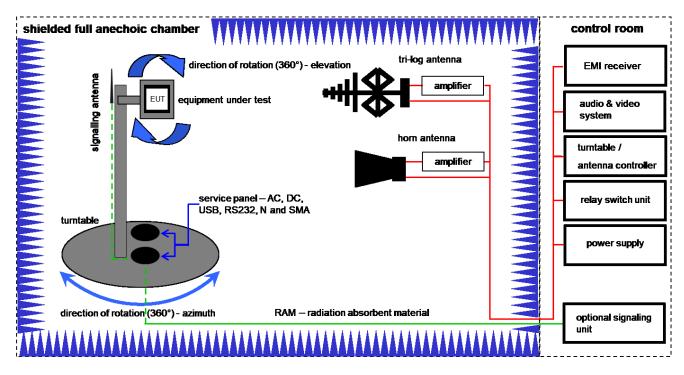
Agenda: Kind of Calibration

- 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

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7.1 Shielded fully anechoic chamber



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)

Example calculation:

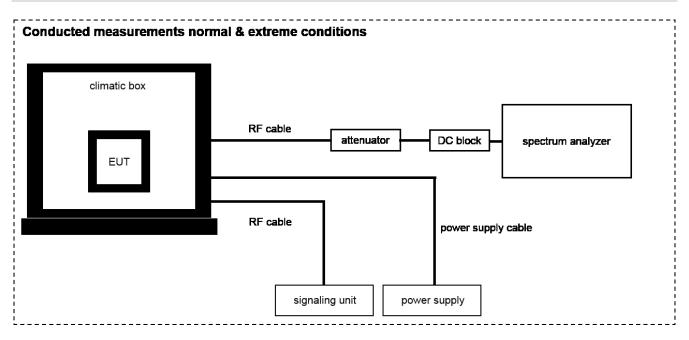
OP [dBm] = -65.0 [dBm] + 50 [dB] - 20 [dBi] + 5 [dB] = -30 [dBm] (1 μW)

Equipment table:

No.	Setup	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	A,B	Switch / Control Unit	3488A	HP	*	300000199	ne	-/-	-/-
3	A,B	EMI Test Receiver 20Hz- 26,5GHz	ESU26	R&S	100037	300003555	k	09.12.2021	31.12.2022
4	В	Highpass Filter	WHK1.1/15G-10SS	Wainwright	3	300003255	ev	-/-	-/-
5	A	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck Mess - Elektronik	371	300003854	vlKl!	04.02.2022	29.02.2024
6	A,B	Broadband Amplifier 0.5-18 GHz	CBLU5184540	CERNEX	22049	300004481	ev	-/-	-/-
7	A,B	NEXIO EMV- Software	BAT EMC V3.22.0.13	Nexio		300004682	ne	-/-	-/-
8	A,B	4U RF Switch Platform	L4491A	Agilent Technologies	MY50000037	300004509	ne	-/-	-/-
9	A,B	Arbitrary Function Generator	33220A	Agilent Technologies	MY44051717	300004164	vlKl!	09.12.2021	31.12.2023
10	В	Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	8812-3089	300000307	vlKl!	11.02.2022	29.02.2024



7.2 Conducted 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.	Setup	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	В	Climatic box	VT 4002	Heraeus Voetsch	585660468200 10	300003019	ev	09.05.2022	08.05.2024
2	А	Arbitrary Function Generator	33220A	Agilent Technologies	MY44051717	300004164	viKi!	09.12.2021	31.12.2023
3	A,B	Signal analyzer	FSW26	Rohde&Schwarz	101455	300004528	k	14.12.2021	31.12.2022
4	A,B	Power Supply	HMP2020	Rohde & Schwarz	102219	300006192	k	08.04.2021	07.04.2023



8 Sequence of testing

8.1 Sequence of testing radiated spurious 30MHz to 12.75GHz

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, a 2-axis positioner with 1.5 m height is used.
- 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 is polarized vertical and horizontal.
- The antenna height is 1.5 m.
- At each turntable position and antenna polarization the analyzer sweeps with positive peak detector to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximizes the peaks by rotating the turntable from 0° to 360°. This measurement is repeated for different EUT-table positions (0° to 150° in 30°-steps) and for both antenna polarizations.
- The final measurement is done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and RMS detector (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit are recorded. A plot with the graph of the premeasurement with marked maximum final results and the limit is stored.



9 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				

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.

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TC Identifier	Description	Verdict	Date	Remark
RF-Testing	FCC Part 15	See table!	2023-01-17	-/-

Test specification clause	Test case	Temperature conditions	Voltage conditions	С	NC	NA	NP	Remark
FCC Part 15.236 (d)(1) FCC Part 15.236 (d)(2)	Transmitter output power	Nominal	Nominal	X				-/-
FCC Part 15.236 (f)(2)	Occupied bandwidth	Nominal	Nominal	\boxtimes				-/-
FCC Dort 15 226 (f)(2)	Transmitter	Nominal	Nominal	X				/
FCC Part 15.236 (f)(3)	frequency stability	Extreme	Extreme	X				-/-
FCC Part 15.236 (g)	Transmitter unwanted emissions (radiated or conducted)	Nominal	Nominal	\boxtimes				-/-
FCC Part 15.236 (g)	Necessary bandwidth (BN) for digital systems	Nominal	Nominal	\boxtimes				-/-
FCC Part 15.236 (g)	Receiver spurious emissions	Nominal	Nominal			\boxtimes		No receiver integrated!
FCC Part 15.107(a) FCC Part 15.207	Conducted emissions < 30 MHz	Nominal	Nominal			\boxtimes		-/-

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



11 Additional comments

Reference documents:	Custon	Customer-Questionnaire_ATW-T3202aEE1.docx				
Special test descriptions:	tests under extreme conditions have been performed from -30°C to +50°C and 3V DC \pm 15%					
Configuration descriptions:	EUT te	sted with a sensitivity setting of -30 dB – pre-setting from manufacturer.				
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. 				



12 Measurement results

12.1 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: Unmodulated carrier 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 7.2 – A	
Measurement uncertainty:	See sub clause 9	

<u>Limits:</u>

Frequency range	FCC Part 15.236(d)(1)
470 MHz to 608 MHz	50 mW EIRP (17 dBm EIRP)

Result:

Transmitter output power e.i.r.p.					
Frequencies / MHz 530.000 560.000 589.975					
Peak	16.82 dBm	15.87 dBm	13.00 dBm		
Average 16.77 dBm 15.82 dBm 12.95 dBm					



12.2 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 7.2 - A	
Measurement uncertainty:	See sub clause 9	

<u>Limits:</u>

FCC
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.

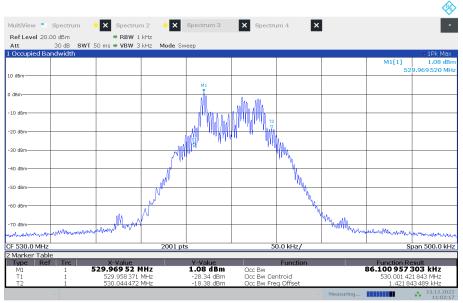
<u>Result:</u>

Normal mode			
Centre frequency (fc) OBW			
530.000 MHz	86.10 kHz		
560.000 MHz	97.23 kHz		
589.975 MHz	92.21 kHz		



Plots:

Plot 1: 530.000 MHz



11:02:17 13.12.2022

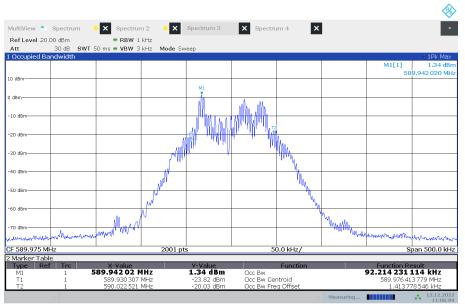
Plot 2: 560.000 MHz



11:04:05 13.12.2022



Plot 3: 589.975 MHz



11:06:09 13.12.2022



12.3 Transmitter frequency stability

Measurement:

Measurement parameter		
Detector:	Peak	
Sweep time:	Auto	
Resolution bandwidth:	10 Hz	
Video bandwidth:	3 x resolution bandwidth	
Span:	wide enough to follow the frequency drift	
Trace mode:	clear/write/view	
EUT:	CW signal or MC with measurement method description	
Test setup:	See sub clause 7.2 - B	
Measurement uncertainty:	See sub clause 9	

<u>Limits:</u>

FCC & IC	
470 MHz to 608 MHz	± 50 ppm

Results: 560 MHz

Temperature / Voltage	Frequency (MHz)	Deviation (kHz / ppm)
-30 °C / V _{nom}	559.999451	-0.549/0.98
-20 °C / V _{nom}	559.999550	-0.450/0.80
-10 °C / V _{nom}	559.999650	-0.350/0.62
0 °C / V _{nom}	559.999650	-0.350/0.62
+10 °C / V _{nom}	559.999550	-0.450/0.80
+20 °C / V _{nom}	559.999583	-0.417/0.74
+30 °C / V _{nom}	559.999550	-0.450/0.80
+40 °C / V _{nom}	559.999600	-0.400/0.71
+50 °C / V _{nom}	559.999500	-0.500/0.89
+20 °C / V _{nom} - 15%	559.999550	-0.450/0.80
+20 °C / V _{nom}	559.999583	-0.417/0.74
+20 °C / V _{nom} + 15%	559.999667	-0.333/0.60

12.4 Transmitter unwanted emissions (radiated)

Measurement:

Measurement parameter			
Detector:	Peak (prescan) / RMS		
Sweep time:	Auto		
Resolution bandwidth:	25 MHz to 30 MHz 9 kHz to 10 kHz 30 MHz to 1 000 MHz 100 kHz > 1 000 MHz 1 MHz		
Video bandwidth:	3 * RBW		
Span:	100 MHz steps!		
Trace-Mode:	Max. hold		
EUT:	MC with max frequency deviation		
Used equipment:	See chapter 7.1- A / B		
Measurement uncertainty:	See chapter 9		

Limits:

Max. spurious level FCC (according to ETSI EN 300 422-1 v1.4.2 (2011-08))			
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			
The mean power of emissions shall be attenuated below the mean output power of the transmitter in			
accordance with the following schedule:			
On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB			25 dB
On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth 35 dB			35 dB
On any frequency removed from the operating frequency by more than 250			43 + 10log10 (mean output
percent of the authorized bandwidth: at least			power in watts) dB

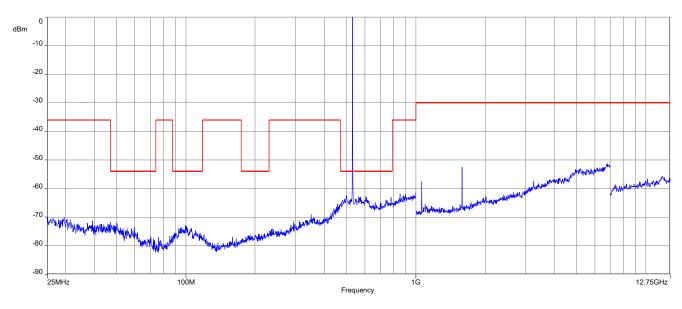


Results:

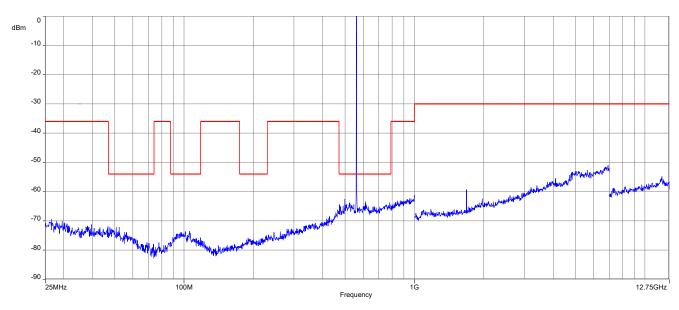
carrier frequency	unwanted emission frequency	Limit	Level (RMS)
530.000 MHz	no peaks detected		
560.000 MHz	no peaks detected		
589.975 MHz	no peaks detected		

Plots: radiated

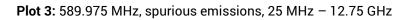
Plot 1: 530.000 MHz, spurious emissions, 25 MHz - 12.75 GHz

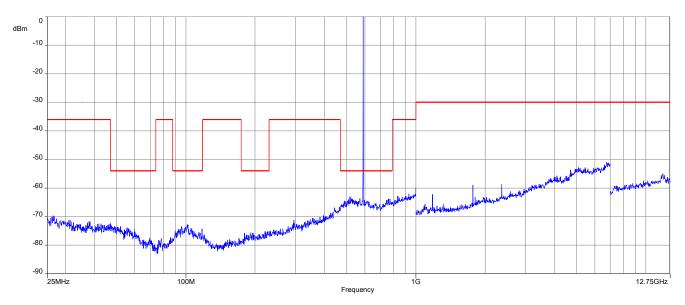






Plot 2: 560.000 MHz, spurious emissions, 25 MHz – 12.75 GHz





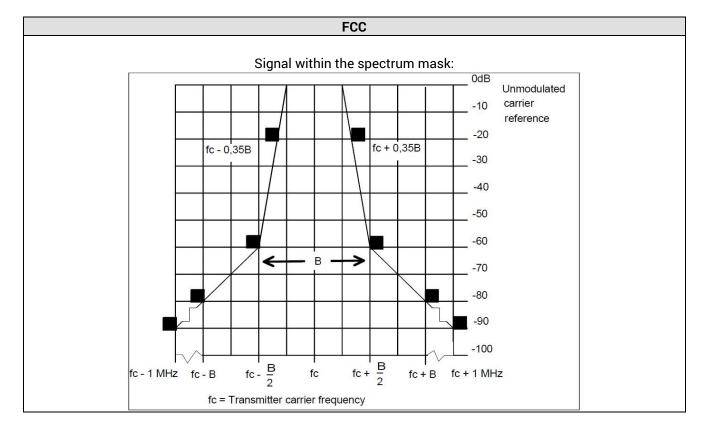


12.5 Necessary bandwidth (BN) for analogue systems

Measurement:

Measurement parameter		
Detector:	Peak / Average (-90 dBc point only)	
Sweep time:	Auto	
Resolution bandwidth:	1 kHz	
Video bandwidth:	1 kHz	
Span:	fc - 1 MHz to fc + 1 MHz (2 MHz)	
Trace mode:	Max hold/view	
EUT:	CW and MC	
Test setup:	See sub clause 7.2 - A	
Measurement uncertainty:	See sub clause 9	

Limits:



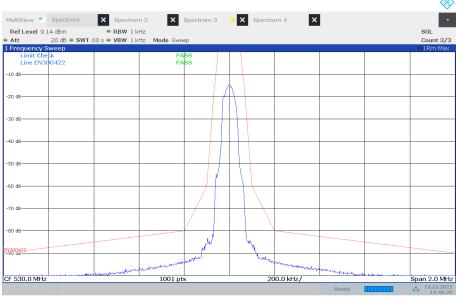


Plots: 530.000 MHz

Plot 1: Unmodulated carrier reference (with pilot-tone)



Plot 2: Modulated carrier with the weighted noise source

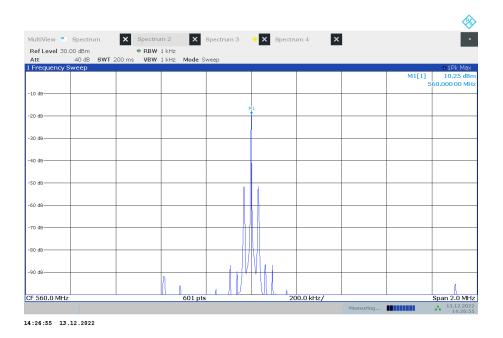


14:46:28 13.12.2022

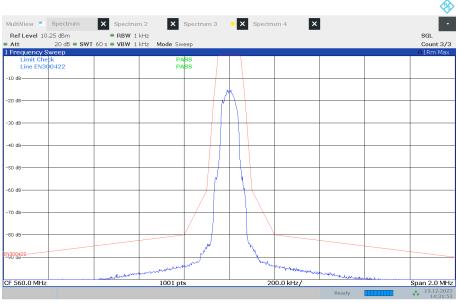


Plots: 560.000 MHz

Plot 1: Unmodulated carrier reference (with pilot-tone)



Plot 2: Modulated carrier with the weighted noise source

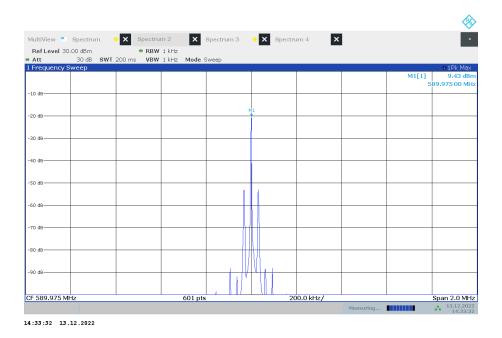


14:31:53 13.12.2022

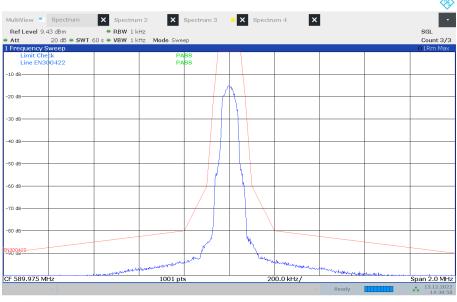


Plots: 589.975 MHz

Plot 1: Unmodulated carrier reference (with pilot-tone)



Plot 2: Modulated carrier with the weighted noise source



14:38:58 13.12.2022



13 Glossary

EUT	Fauinment under teet
DUT	Equipment under test Device under test
UUT	Unit under test
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

14 Document history

Version	Applied changes	Date of release
-/-	Initial release	2023-01-17

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

first page	last page
Deutsche Akkreditierungsstelle Deutsche Akkreditierungsstelle GmbH Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition	Deutsche Akkreditierungsstelle GmbH Office Brein Spitielmarit 10 Spitielmarit
Accreditation The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory TC advanced GmbH Unetrürkheimer 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 Akkrediterungsstelle GmbH (DAMSA). Exempted is the unchanged form of saparate 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
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. It 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 Frankfurt am Main, 09.06.2020 by other the status are the time of the date of source. The carriert status of the scope of accreditation on the fourth in a more reflects the status are the time of Double Akkrditerungszelle GmbH. Misc/Neww wakk.defactocent/accredited bodies doubs a Double Akkrditerungszelle GmbH.	accreditation attested by DAMS. The accreditation was granted pursuant to the Act on the Accreditation Body (AAdStelleG) of 31 July 2009 (Federa List Gazette J. 2:523) and the Regulation (EC) No 755/2008 of the European and a transmitter of the to the marketing of products (Official Journal of the European Linu 1:23 of 9 July 2008, p. 30). DAMS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA). International Accreditation formula (Accessing the Accreditation and the State

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

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

or

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16 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-12076-01.1t 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 its annex reflects the status at the time of the date of asset. The current status of the scope of accreditation can be found in the database of accredited badies datas Intercriticate can be found in the database of accredited badies of abunche Akkreditorungsstelle Gmost. http://www.datak.at/or/content/bccredited-badies-datas	The accreditation was granted pursuant to the Act on the Accreditation Body (Additellia(G of 31,042) 2000) (Federal Law G Buttle (), 2622) and the Regulation ECI (No 755/2008 of the European Poliannet and of the Accreditation of Poliance (C)

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