









TEST REPORT

BNetzA-CAB-02/21-102 Test report no.: 1-5460_22-01-05_B

Testing laboratory

CTC advanced GmbH

Untertuerkheimer Strasse 6 – 10 66117 Saarbruecken / Germany Phone: +49 681 5 98 - 0

Fax: + 49 681 5 98 - 9075

Internet: https://www.ctcadvanced.com
e-mail: mail@ctcadvanced.com

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.

Applicant

ifm electronic gmbh

Friedrichstr. 1

45128 Essen / GERMANY
Phone: +49 7542 518-0
Contact: Victor Udeme Udofia

e-mail: victorudeme.udofia@ifm.com

Manufacturer

ifm electronic gmbh

Friedrichstr. 1

45128 Essen / GERMANY

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 - 210 Issue 10 Spectrum Management and Telecommunications Radio Standards

Specification - Licence-Exempt Radio Apparatus: Category I Equipment

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

Test Item

Kind of test item: RFID Read-Write Head

Model name: ANT512

FCC ID: UN6-DTRLFMC01
ISED certification number: 6799A-DTRLFMC01

Frequency: 125 kHz Technology tested: RFID

Radio Labs

Antenna: Integrated antenna

Power supply: 19.2 V to 28.8 V DC by external power supply

Temperature range: -20°C to +60°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:	Test performed:	
Christoph Schneider	Hans-Joachim Wolsdorfer	
Lab Manager	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.

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This test report replaces the test report with the number 1-5460_22-01-05_A and dated 2023-03-08.

2.2 Application details

 Date of receipt of order:
 2022-12-14

 Date of receipt of test item:
 2023-01-30

 Start of test:*
 2023-02-02

 End of test:*
 2023-02-03

Person(s) present during the test: -/-

2.3 Test laboratories sub-contracted

None

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



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 - 210 Issue 10	December 2019	Spectrum Management and Telecommunications Radio Standards Specification - Licence-Exempt Radio Apparatus: Category I Equipment		
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 C63.4-2014 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 Testing of Unlicensed Wireless Devices		
Accreditation	Description	1		
D-PL-12076-01-04		munication and EMC Canada w.dakks.de/as/ast/d/D-PL-12076-01-04e.pdf W.dakks.de/as/ast/d/D-PL-12076-01-04e.pdf		
D-PL-12076-01-05		nication FCC requirements akks.de/as/ast/d/D-PL-12076-01-05e.pdf Deutsche Akkreditierungsstelle D-PL-12076-01-05		

ISED Testing Laboratory Recognized Listing Number: DE0001

FCC designation number: DE0002

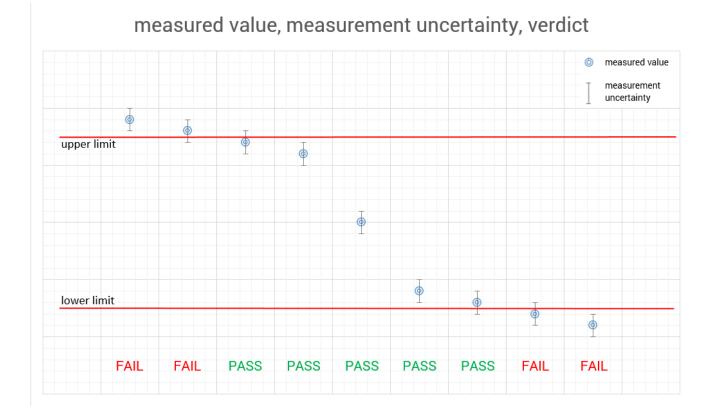
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4 Reporting statements of conformity – decision rule

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."



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5 Test environment

		T_{nom}	+22 °C during room temperature tests
Temperature	:	T_{max}	+60 °C during high temperature tests
		T_{min}	-20 °C during low temperature tests
Relative humidity content	:		55 %
Barometric pressure	:		1021 hpa
		V_{nom}	24.0 V DC by external power supply
Power supply	:	V_{max}	28.8 V
		V_{min}	19.2 V

6 Test item

6.1 General description

Kind of test item :	RFID Read-Write Head
Model name :	ANT512
HMN :	-/-
PMN :	ANT512
HVIN :	ANT512_01
FVIN :	-/-
S/N serial number :	154481#01
Hardware status :	AE
Software status :	-/-
Firmware status :	1.95
Frequency band :	125 kHz
Type of radio transmission:	modulated carrier
Use of frequency spectrum:	infodulated carrier
Type of modulation :	ASK
Number of channels :	1
Antenna :	Integrated antenna
Power supply :	19.2 V to 28.8 V DC by external power supply
Temperature range :	-20°C to +60°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: 1-5460_22-01-01AnnexA

1-5460_22-01-01AnnexB 1-5460_22-01-01AnnexD

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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.

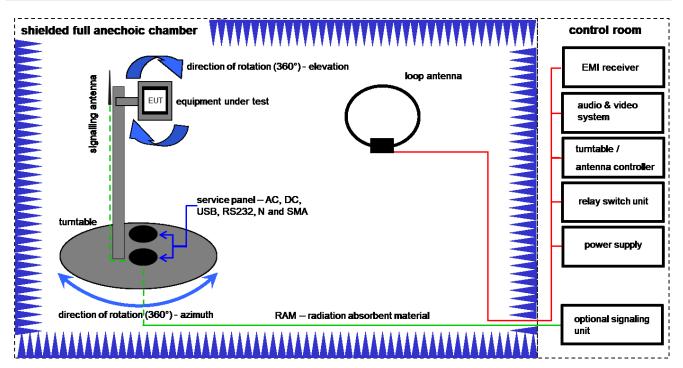
Agenda: Kind of Calibration

k	calibration / calibrated	EK	limited calibration
ne	not required (k, ev, izw, zw not required)	zw	cyclical maintenance (external cyclical
			maintenance)
ev	periodic self verification	izw	internal cyclical maintenance
Ve	long-term stability recognized	g	blocked for accredited testing
vlk!	Attention: extended calibration interval		
NK!	Attention: not calibrated	*)	next calibration ordered / currently in progress

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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 $[dB\mu V/m] = 40.0 [dB\mu V/m] + (-35.8) [dB] + 32.9 [dB/m] = 37.1 [dB\mu V/m] (71.61 \(\mu V/m \))$

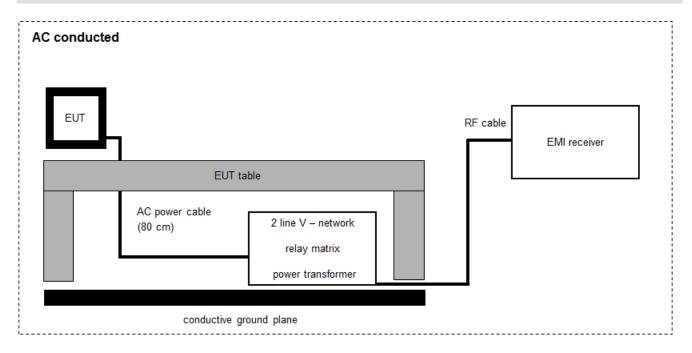
Equipment table:

No.	Setup	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	Α	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev	-/-	-/-
2	Α	Switch / Control Unit	3488A	HP	*	300000199	ne	-/-	-/-
3	Α	EMI Test Receiver 20Hz- 26,5GHz	ESU26	R&S	100037	300003555	k	07.12.2022	31.12.2023
4	Α	Active Loop Antenna 9 kHz to 30 MHz	6502	EMCO	2210	300001015	vIKI!	01.07.2021	31.07.2023
5	Α	4U RF Switch Platform	L4491A	Agilent Technologies	MY50000037	300004509	ne	-/-	-/-
6	Α	NEXIO EMV- Software	BAT EMC V2022.0.22.0	Nexio		300004682	ne	-/-	-/-

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7.2 AC conducted



FS = UR + CF + VC

(FS-field strength; UR-voltage at the receiver; CR-loss of the cable and filter; VC-correction factor of the ISN)

Example calculation:

FS $[dB\mu V/m] = 37.62 [dB\mu V/m] + 9.90 [dB] + 0.23 [dB] = 47.75 [dB\mu V/m] (244.06 \(\mu V/m \))$

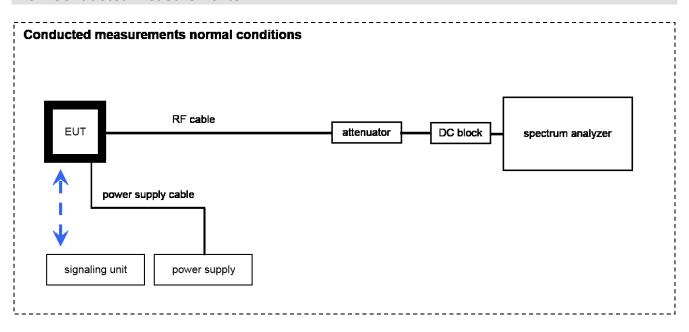
Equipment table:

No.	Setup	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	А	Two-line V-Network (LISN) 9 kHz to 30 MHz	ESH3-Z5	Rohde & Schwarz	892475/017	300002209	vIKI!	14.12.2021	31.12.2023
2	Α	RF-Filter-section	85420E	HP	3427A00162	300002214	NK!	-/-	-/-
3	А	Analyzer-Reference- System (Harmonics and Flicker)	ARS 16/1	SPS	A3509 07/0 0205	300003314	vIKI!	29.12.2021	31.12.2023
4	Α	Hochpass 150 kHz	EZ-25	R&S	100010	300003798	ev	-/-	-/-
5	Α	PC	TecLine	F+W		300003532	ne	-/-	-/-
6	А	EMI Test Receiver 3.6 GHz	ESR3	Rohde & Schwarz	102981	300006318	k	09.12.2022	31.12.2023

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7.3 Conducted measurements



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	Α	RF-Cable SRD021 No. 9	Enviroflex 316 D	Huber & Suhner		400001319	ev	-/-	-/-
2	Α	Loop Antenna		ZEG TS Steinfurt		400001208	ev	-/-	-/-
3	Α	Power Supply	HMP2020	Rohde & Schwarz	102219	300006192	k	15.12.2022	31.12.2024
4	Α	Signal analyzer	FSW26	Rohde&Schwarz	101455	300004528	k	07.12.2022	31.12.2023

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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.

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^{*)}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					

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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			
RF-Testing	RSS 210 Issue 8	See table!	2023-02-03	-/-
	RSS Gen Issue 5			

Test specification clause	Test case	Temperature conditions	Power source conditions	С	NC	NA	NP	Remark
RSS Gen Issue 4 (6.6)	Occupied bandwidth	Nominal	Nominal	\boxtimes				-/-
§ 15.209	Field strength of the fundamental	Nominal	Nominal	\boxtimes				-/-
§ 15.209 RSS Gen Issue 4 (6.13)	Field strength of the harmonics and spurious	Nominal	Nominal	\boxtimes				-/-
§15.107 §15.207	Conducted limits	Nominal	Nominal	\boxtimes				-/-

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

11 Additional comments

Reference documents: none

Special test descriptions: none

Configuration descriptions: none

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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 7.3A			
Measurement uncertainty:	See sub clause 8			

Limit:

IC
for RSP-100 test report coversheet only

Result:

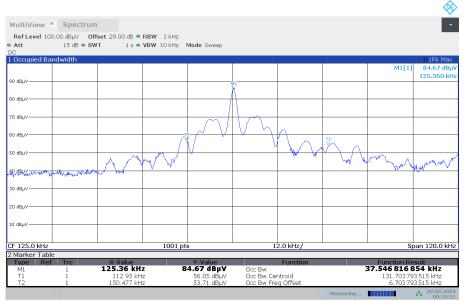
	99% emission bandwidth
ĺ	37.546 kHz

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Plot:

Plot 1:99 % emission bandwidth



09:25:32 02.02.2023

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12.2 Field strength of the fundamental

Measurement:

The maximum detected field strength for the carrier signal.

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

Limit:

FCC & IC				
Frequency /	Field strength /	Measurement distance /		
(MHz)	(μV/m)	(m)		
0.009 - 0.490	2400 / f (kHz) 25.66 dBµV /m @ 125 kHz	300		

Recalculation:

According to ANSI C63.10					
Frequency	Frequency Formula				
125 kHz	$FS_{limit} = FS_{max} - 40 \log \left(\frac{d_{\textit{measured}}}{d_{\textit{measure}}}\right) - 20 \log \left(\frac{d_{\textit{limit}}}{d_{\textit{mearfield}}}\right)$ is the calculation of field strength at the limit distance, expressed in dBµV/m FS_{max} is the measured field strength, expressed in dBµV/m is the $\lambda/2\pi$ distance decapted is the $\lambda/2\pi$ distance of the measurement point from EUT distance distance of the reference limit distance	-82.1 dB from 3 m to 300 m			

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Result:

Field strength of the fundamental						
Frequency 125 kHz						
Distance	@ 3 m	@ 300 m				
Measured / calculated value	84.27 dBμV/m	2.17 dBμV/m				

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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)			
Desclution bandwidth:	F < 150 kHz: 200 Hz			
Resolution bandwidth:	150 kHz < F < 30 MHz: 9 kHz			
Video benduidab.	F < 150 kHz: 1 kHz			
Video bandwidth:	150 kHz < F < 30 MHz: 100 kHz			
Trace mode:	Max hold			
Used test setup:	see sub clause 7.1A			
Measurement uncertainty:	See sub clause 9			

Limit:

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)	(μA/m)	(m)			
0.009 - 0.490	6.37/F (F in kHz)	300			
0.490 - 1.705	63.7/F (F in kHz)	30			
1.705 – 30	0.08 (-22 dBµA/m)	30			

Result:

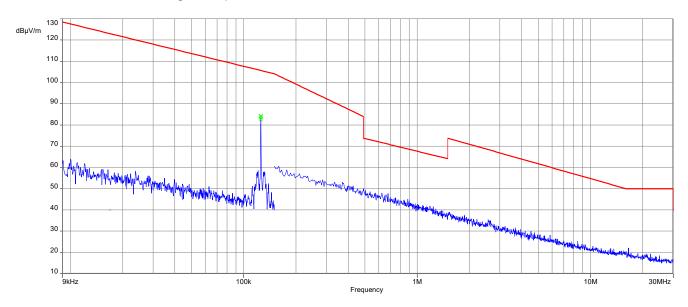
Detected emissions					
Frequency / Detector Resolution bandwidth / (kHz) Detected value					
All detected peak emissions below 30 MHz are more than 20 dB below the average limit.					
For emissions above 30 MHz, please look at the table below the 1 GHz plot.					

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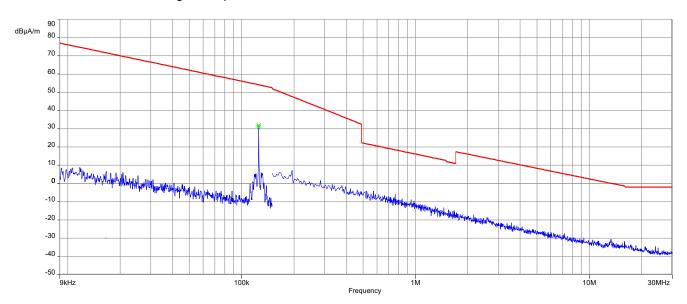


Plots:

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



Plot 2: 9 kHz - 30 MHz, magnetic spurious emissions IC



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12.4 Conducted limits

Measurement:

Measurement of the conducted spurious emissions for an intentional radiator that is designed to be connected to the public utility (AC) power line. Measurement performed according to ANSI C63.10, chapter 6.2

Measurement parameters				
Detector:	Quasi peak / average or			
	peak (worst case - pre-scan)			
Resolution bandwidth:	F < 150 kHz: 200 Hz			
	F > 150 kHz: 9 kHz			
Video bandwidth:	F < 150 kHz: 1 kHz			
Video bandwidth.	F > 150 kHz: 100 kHz			
Trace mode:	Max hold			
Used equipment:	See chapter 7.2A			
Measurement uncertainty:	See chapter 9			

Limit:

FCC & IC				
Frequency	Quasi-peak	Average		
/ MHz	/ (dBµV/m)	/ (dBµV/m)		
0.15 - 0.5	66 to 56*	56 to 46*		
0.5 - 5	56	46		
5 - 30.0	60	50		

Result:

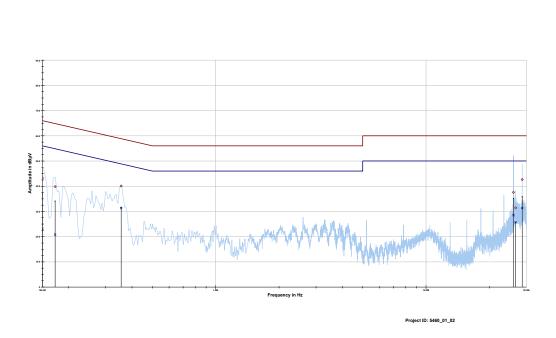
see table below plots

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Plots:

Plot 1: 150 kHz to 30 MHz, phase line

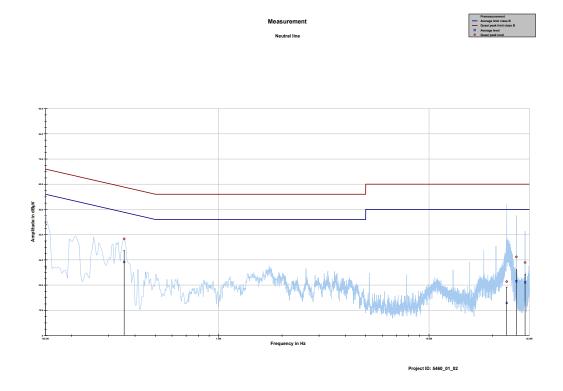


Frequency	Quasi peak level	Margin quasi peak	Limit QP	Average level	Margin average	Limit AV
MHz	dΒμV	dB	dΒμV	dΒμV	dB	dΒμV
0.150000	43.29	22.71	66.000	23.11	32.89	56.000
0.172387	39.85	25.00	64.845	20.82	34.54	55.360
0.355219	40.09	18.75	58.840	31.30	18.84	50.137
26.048606	37.55	22.45	60.000	28.50	21.50	50.000
26.671725	31.41	28.59	60.000	25.73	24.27	50.000
28.660481	42.64	17.36	60.000	31.36	18.64	50.000

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Plot 2: 150 kHz to 30 MHz, neutral line



Frequency	Quasi peak level	Margin quasi peak	Limit QP	Average level	Margin Average	Limit AV
MHz	dΒμV	dB	dΒμV	dΒμV	dB	dΒμV
0.150000	43.96	22.04	66.000	26.76	29.24	56.000
0.355219	38.31	20.53	58.840	29.15	20.99	50.137
23.410612	21.37	38.63	60.000	12.92	37.08	50.000
26.015025	31.16	28.84	60.000	21.49	28.51	50.000
28.615706	28.94	31.06	60.000	21.05	28.95	50.000

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13 Glossary

EUT	Equipment under test		
DUT	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		
С	Compliant		
NC	Not compliant		
NA	Not applicable		
NP	Not performed		
PP	Positive peak		
QP	Quasi peak		
AVG	Average		
OC	Operating channel		
OCW	Operating channel bandwidth		
OBW	Occupied bandwidth		
ООВ	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		

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14 Document history

Version	Applied changes	Date of release
-/-	Initial release	2023-02-27
Α	update EUT information	2023-03-08
В	added EUT SN	2023-04-13

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

first page	last page			
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 Accreditation 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	Deutsche Akkreditierungsstelle GmbH Office Berlin Office Brandfurt am Main Spittelmarkt 10 Europa-Allee 52 Bundesallee 100 38116 Brannschweig 38116 Brannschweig			
Telecommunication (TC) and Electromagnetic Compatibility (EMC) for Canadian Standards 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 order [spil-ring, 119386] Egner head of Division The certificate topyther with its ameas reflects the stotus at the time of the date of justice. The current status of the scape of accreditation on the found in the distuitions of decredited bodies of fourteche Akkreditierungsstelle Gmb4. Matos://www.ddkks.de/snip.content/accredited-bodies-doiles-doi	The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAXS). 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 matested by DAMS. The accreditation was granted pursuant to the Act on the Accreditation Body (AkiStellieG) of 31 July 2009 (Federal Law Gazette 1 p. 263) and the Regulation (ICD in 768/2008 of the European Parliament and of the Council of 3 July 2008 setting out the requirements for accreditation and market surpless. 300 July 2009 and the complex of the Council of 3 July 2009 setting out the requirements for accreditation and market surpless. 300 July 2009 and			

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

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

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16 Accreditation Certificate - D-PL-12076-01-05

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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 Accreditation 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 (FCC Requirements)	Office Berlin Office Berlin Office Berlin Office Berlin Spittelmarkt 10 Europa-Allee 52 Bundesallee 100 10117 Berlin 60327 Frankfurt am Main Main Bundesallee 100 38116 Braunschweig Bundesallee 100 38116 Braunschweig The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkrediterungsstelle GmbH (DAKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleat. No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAKS. The accreditation was grateful pursuant to the Act on the Accreditation Body (AkStelleiG) of 31 July 2009 (Federal Law Ganetts 1 p. 3525) and the Regulation (EC) No 755/2000 of the European Parlament and of federal Law Ganetts 1 p. 3525) and the Regulation (EC) No 755/2000 of the European Parlament and of
The accreditation cartificate 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 05 pages. Registration number of the certificate: D-PL-12076-01-05 Frankfurt am Main, 09.06.2020 by ordy Total-ling, (invited Eagner Head of Division The certificate together with its once reflects the status of the time of the date of saus. The current status of the scape of accreditation can be found in the database of accreditation dates of Deutsche Alkrestitierungsstelle GmbH. http://www.dates.alp/en/content/occredited-badies-dates	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 Union 12.8 of 9 July 2008, 7:30). DAMS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation formum (AF) and International Laboratory Accreditation Cooperation (ILAC). 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 ILAC: www.ilac.org IAF: www.ilac.org

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