

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:	BTE Hearing Aid with Bluetooth LE and wireless charging			
Model name:	MBR3D			
FCC ID:	2AXDT-MBR3D			
IC:	26428-MBR3D			
Frequency:	10.6 MHz			
Technology tested:	proprietary			
Antenna:	Integrated antenna			
Power supply:	3.0 V to 4.2 V DC, by internal battery Z23 (Lithium-ion)			
Temperature range:	0°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:

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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This test report replaces the test report with the number 1-1494_20-01-08-B and dated 2021-05-27

2.2 Application details

Date of receipt of order:	2020-11-04
Date of receipt of test item:	2021-03-19
Start of test:*	2021-03-22
End of test:*	2021-04-15
Person(s) present during the test:	- / -

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

2.3 Test laboratories sub-contracted

None



3 Test standard/s, references and accreditations

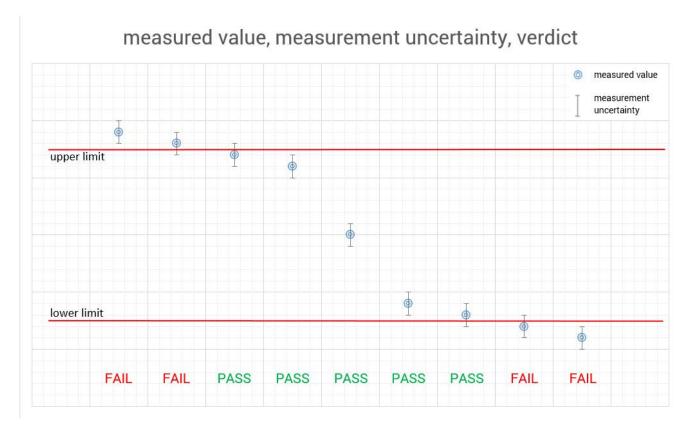
Test standard	Date	Description				
FCC - Title 47 CFR Part 15		FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices				
RSS - 210 Issue 10	December 2019	Spectrum Management and Telecommunications Radio Standards Specification - Licence-Exempt Radio Apparatus: 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	n				
D-PL-12076-01-04		nunication and EMC Canada /.dakks.de/as/ast/d/D-PL-12076-01-04e.pdf				
D-PL-12076-01-05		unication FCC requirements dakks.de/as/ast/d/D-PL-12076-01-05e.pdf				



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**

		T _{nom}	+22 °C during room temperature tests
Temperature	:	T _{max}	+50 °C during high temperature tests
		T_{min}	0 °C during low temperature tests
Relative humidity content	:		55 %
Barometric pressure	:		1021 hpa
		V _{nom}	3.6 V DC, by internal battery Z23 (Lithium-ion)
Power supply	:	V_{max}	4.2 V
		V_{min}	3.0 V

6 Test item

General description 6.1

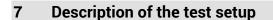
Kind of test item :	BTE Hearing Aid with Bluetooth LE and wireless charging
Model name :	MBR3D
HMN :	-/-
PMN :	MBR3D
HVIN :	MBR3D
FVIN :	SW 3.0.12
S/N serial number :	TX: 1737
S/N Senai number .	RX: 1735
Hardware status :	P1.1
Software status :	-/-
Firmware status :	FW 2.0.207
Frequency band :	10.6 MHz
Type of radio transmission :	Modulated carrier
Use of frequency spectrum :	
Type of modulation :	FSK
Number of channels :	1
Antenna :	Integrated antenna
Power supply :	3.0 V to 4.2 V DC, by internal battery Z23 (Lithium-ion)
Temperature range :	0°C to +50°C
Software status:Firmware status:Frequency band:Type of radio transmission ::Use of frequency spectrum ::Type of modulation:Number of channels:Antenna:Power supply:	-/- FW 2.0.207 10.6 MHz Modulated carrier FSK 1 Integrated antenna 3.0 V to 4.2 V DC, by internal battery Z23 (Lithium-ion)

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:

1-1494/20-01-01_AnnexA 1-1494/20-01-01_AnnexB 1-1494/20-01-01_AnnexC



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).

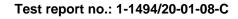
In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Lab/Item).

Agenda: Kind of Calibration

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

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

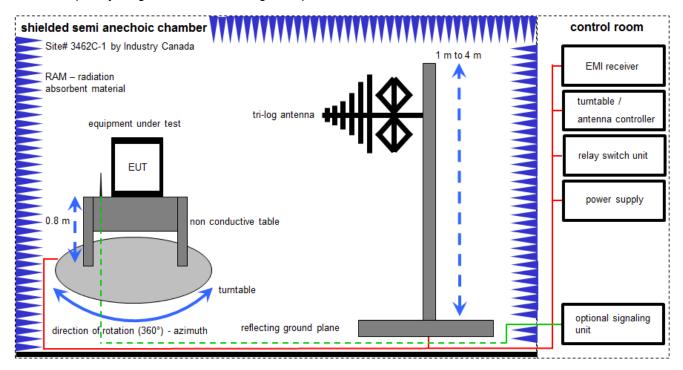




7.1 Shielded semi anechoic chamber

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 30 MHz to 1 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are conform to specifications ANSI C63. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analyzers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.

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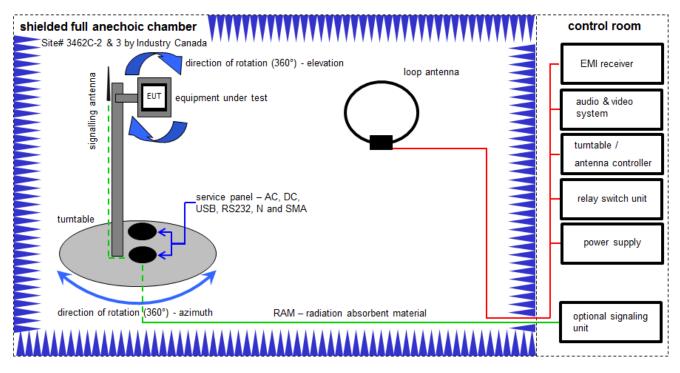
Measurement distance: tri-log antenna 10 meter; EMC32 software version: 10.59.00

FS = UR + CL + AF (FS-field strength; UR-voltage at the receiver; CL-loss of the cable; AF-antenna factor) <u>Example calculation</u>: FS [dBμV/m] = 12.35 [dBμV/m] + 1.90 [dB] + 16.80 [dB/m] = 31.05 [dBμV/m] (35.69 μV/m)

Equipment table:

No.	Lab / Item	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	Α	Switch-Unit	3488A	HP	2719A14505	300000368	ev	-/-	-/-
2	Α	Antenna Tower	Model 2175	ETS-Lindgren	64762	300003745	izw	-/-	-/-
3	A	Positioning Controller	Model 2090	ETS-Lindgren	64672	300003746	izw	-/-	-/-
4	A	Turntable Interface- Box	Model 105637	ETS-Lindgren	44583	300003747	izw	-/-	-/-
5	A	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck Mess - Elektronik	318	300003696	vIKI!	04.09.2019	03.09.2021
6	Α	Turntable	2089-4.0	EMCO		300004394	ne	-/-	-/-
7	Α	PC	TecLine	F+W		300004388	ne	-/-	-/-
8	Α	EMI Test Receiver	ESR3	Rohde & Schwarz	102587	300005771	k	10.12.2020	09.06.2022

7.2 Shielded fully anechoic chamber



Measurement distance: loop antenna 1 meter

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

<u>Example calculation</u>: FS [dB μ V/m] = 40.0 [dB μ V/m] + (-35.8) [dB] + 32.9 [dB/m] = 37.1 [dB μ V/m] (71.61 μ V/m)

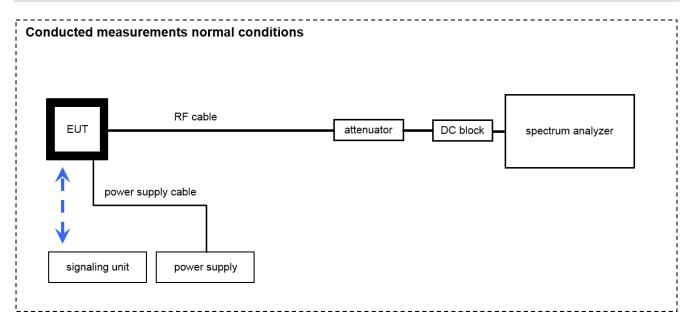
Equipment table:

No.	Lab / Item	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	A	Active Loop Antenna 9 kHz to 30 MHz	6502	EMCO	2210	300001015	vlKI!	13.06.2019	12.06.2021
2	Α	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev	-/-	-/-
3	A	EMI Test Receiver 20Hz- 26,5GHz	ESU26	R&S	100037	300003555	k	11.12.2020	10.12.2021
4	A	4U RF Switch Platform	L4491A	Agilent Technologies	MY50000037	300004509	ne	-/-	-/-
5	A	NEXIO EMV- Software	BAT EMC V3.20.0.17	EMCO		300004682	ne	-/-	-/-
6	Α	PC	ExOne	F+W		300004703	ne	-/-	-/-

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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.	Lab / Item	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	Α	HF-Cable 1 m	BPS-1551-394-BPS	Insulated Wire	080492	300001713	g	-/-	-/-
2	А	Signal- and Spectrum Analyzer 2 Hz - 26 GHz	FSW26	R&S	101455	300004528	k	25.02.2021	24.02.2022
3	Α	Loop Antenna		ZEG TS Steinfurt		400001208	ev	-/-	-/-
4	Α	RF Cable BNC	RG58	Huber & Suhner		400001209	ev	-/-	-/-

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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.

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



8.2 Sequence of testing radiated spurious 30 MHz to 1 GHz

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 table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- 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 10 m or 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 changes from 1 m to 3 m.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak 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 maximize the peaks by changing turntable position ± 45° and antenna height between 1 and 4 m.
- The final measurement is done with quasi-peak detector (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, 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						
Occupied bandwidth	± used RBW					
Field strength of the fundamental	± 3 dB					
Field strength of the harmonics and spurious	± 3 dB					
Receiver spurious emissions and cabinet radiations	± 3 dB					
Conducted limits	± 2.6 dB					



10 Summary of measurement results

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

TC Identifier	Description	Verdict	Date	Remark
	CFR Part 15			
RF-Testing	RSS 210 Issue 10	See table!	2021-06-09	-/-
	RSS Gen Issue 5			

Test specification clause	Test case	Temperature conditions	Power source conditions	С	NC	NA	NP	Remark
RSS Gen Issue 5	Occupied bandwidth	Nominal	Nominal	\boxtimes				-/-
§ 15.209	Field strength of the fundamental	Nominal	Nominal	X				-/-
§ 15.209 RSS Gen Issue 5	Field strength of the harmonics and spurious	Nominal	Nominal	X				-/-
§ 15.109	Receiver spurious emissions and cabinet radiations	Nominal	Nominal	X				-/-
§15.107 §15.207	Conducted limits	Nominal	Nominal			\boxtimes		Battery powered only!

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

11 Additional comments

Reference documents:	Basic_Questions_to_Equipment_Under_TestEUTv1.pdf
Special test descriptions:	MBR3D_Testing_instructions (002)_2021_03_18_v1.pdf
Configuration descriptions:	None



12 Measurement results

12.1 Occupied bandwidth

Measurement:

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

Measurement parameters			
Detector:	Peak		
Resolution bandwidth:	1 % – 5 % of the occupied bandwidth		
Video bandwidth:	≥ 3x RBW		
Trace mode:	Max hold		
Analyser function:	99 % power function		
Used test setup:	See sub clause 7.3 – A		
Measurement uncertainty:	See sub clause 9		

<u>Limit:</u>

IC
for RSP-100 test report coversheet only

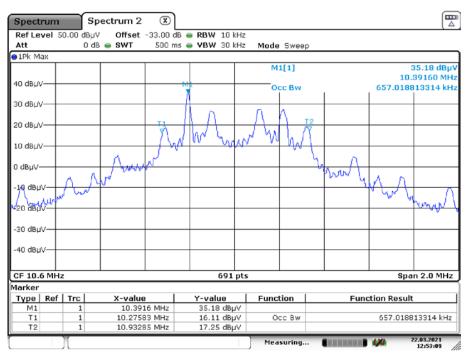
Result:

99% emission bandwidth
657.018 kHz

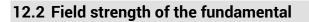


Plot:





Date: 22.MAR.2021 12:53:09



Measurement:

The maximum detected field strength for the carrier signal.

Measurement parameters			
Detector:	average		
Resolution bandwidth:	9 kHz		
Video bandwidth:	≥ 3x RBW		
Trace mode:	Max hold		
Used test setup	See sub clause 7.2 A		
Measurement uncertainty:	See sub clause 9		

Limit:

FCC & IC				
Frequency	Field strength	Measurement distance		
(MHz)	(dBµV/m)	(m)		
1.705 - 30.0	30	30		

Recalculation:

According to ANSI C63.10				
Frequency	Formula Correction value			
10.6 MHz	$\begin{split} FS_{limit} &= FS_{max} - 40 \log \left(\frac{d_{nearfield}}{d_{measure}}\right) - 20 \log \left(\frac{d_{limit}}{d_{measure}}\right) \\ FS_{limit} & \text{is the calculation of field strength at the limit distance,} \\ expressed in dB\muV/m \\ FS_{max} & \text{is the measured field strength, expressed in dB\muV/m} \\ d_{nearfield} & \text{is the } \lambda/2\pi distance \\ d_{measure} & \text{is the distance of the measurement point from EUT} \\ d_{limit} & \text{is the reference limit distance} \end{split}$	-23.52		

Result:

Field strength of the fundamental					
Frequency 10.6 MHz					
Distance	@ 3 m	@ 30 m			
Measured / calculated value	36.70 dBµV/m	13.18 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.

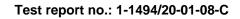
Measurement parameters			
Detector:	Quasi peak / average or		
Detector.	peak (worst case – pre-scan)		
	F < 150 kHz: 200 Hz		
Resolution bandwidth:	150 kHz < F < 30 MHz: 9 kHz		
	30 MHz < F < 1 GHz: 120 kHz		
	F < 150 kHz: 1 kHz		
Video bandwidth:	150 kHz < F < 30 MHz: 100 kHz		
	30 MHz < F < 1 GHz: 300 kHz		
Trace mode:	Max hold		
Lload toot actum	9 kHz to 30 MHz: see sub clause 7.2 – A		
Used test setup:	30 MHz to 1 GHz: see sub clause 7.1 – A		
Measurement uncertainty: See sub clause 9			

Limit:

FCC & IC				
Frequency	Field strength	Measurement distance		
(MHz)	(dBµV/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		

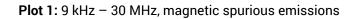
Result:

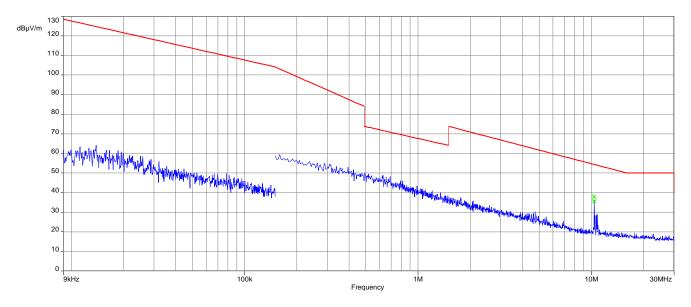
Detected emissions					
Frequency (MHz)	Detector	Resolution bandwidth (kHz)	Detected value		
see table below plot					

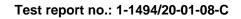




Plots:

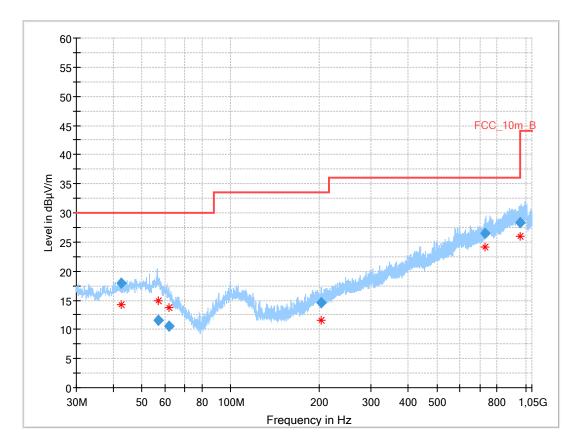












Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
42.638	17.96	30.0	12.0	1000	120.0	102.0	Н	70	14
56.942	11.49	30.0	18.5	1000	120.0	170.0	V	247	15
61.960	10.55	30.0	19.5	1000	120.0	101.0	Н	-22	12
203.011	14.55	33.5	19.0	1000	120.0	152.0	V	-22	11
729.404	26.45	36.0	9.6	1000	120.0	170.0	V	112	21
957.348	28.36	36.0	7.6	1000	120.0	170.0	V	67	24



12.4 Receiver spurious emissions and cabinet radiations

Measurement:

The maximum detected field strength for the spurious.

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

<u>Limit:</u>

FCC & IC					
Frequency	Field strength	Measurement distance			
(MHz)	(dBµV/m)	(m)			
30 - 88	100 (40 dBµV/m)	3			
88 - 216	150 (43.5 dBµV/m)	3			
216 - 960	200 (46 dBµV/m)	3			

Result:

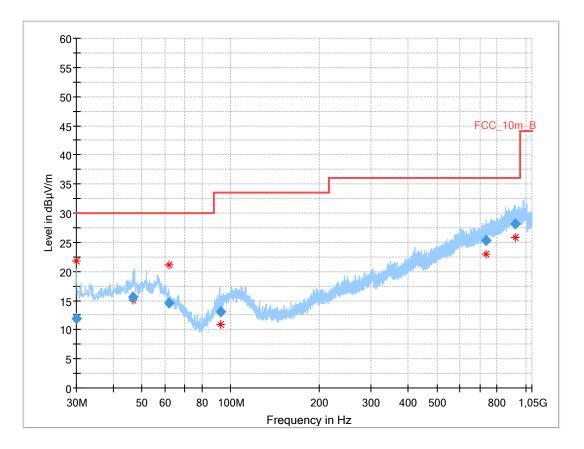
Detected emissions					
Frequency (MHz) Detector		Resolution bandwidth (kHz)	Detected value		
see table below the plot.					

Test report no.: 1-1494/20-01-08-C



Plots:

Plot 1: 30 MHz - 1 GHz, vertical and horizontal polarization



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.042	11.98	30.0	18.0	1000	120.0	113.0	V	-8	12
46.615	15.67	30.0	14.3	1000	120.0	142.0	Н	271	14
62.004	14.58	30.0	15.4	1000	120.0	118.0	V	157	12
92.397	13.13	33.5	20.4	1000	120.0	135.0	V	292	11
736.162	25.28	36.0	10.7	1000	120.0	101.0	Н	157	22
925.953	28.24	36.0	7.8	1000	120.0	121.0	Н	247	24



13 Observations

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



14 Glossary

EUT	Fauinment under teet
	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
C	Compliant
NC	Not compliant
NA	Not applicable
NP	Not performed
PP	Positive peak
QP	Quasi peak
AVG	Average
00	Operating channel
OCW	Operating channel bandwidth
OBW	Occupied bandwidth
OOB	Out of band
DFS	Dynamic frequency selection
CAC	Channel availability check
OP	Occupancy period
NOP	Non occupancy period
DC	Duty cycle
PER	Packet error rate
CW	Clean wave
MC	Modulated carrier
WLAN	Wireless local area network
RLAN	Radio local area network
DSSS	Dynamic sequence spread spectrum
OFDM	Orthogonal frequency division multiplexing
FHSS	Frequency hopping spread spectrum
GNSS	Global Navigation Satellite System
C/N ₀	Carrier to noise-density ratio, expressed in dB-Hz



15 Document history

Version	Applied changes	Date of release
-/-	Initial release	2021-05-03
А	FCC ID changed	2021-05-05
В	EUT photo removed	2021-05-27
С	HVIN changed	2021-06-09

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

first page	last page
Every purpose of the	Deutsche Akkreditierungsstelle GmbH Office Berlin Spittelmarkt 10 10117 Berlin Office Frankfurt am Main Office Braunschweig 60327 Frankfurt am Main Bundesallee 100 38116 Braunschweig
The accreditation certificate shall only apply in connection with the notice of accreditation of 09.06.2020 with the accreditation number D-PL-12076-0.1. 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 The certificate together with its answer offects the status at the time of the date of ione. The current status of the scope of eccontrations can be found in the database of eccentrate bodies of buscube Askerditionungstele Gmaxt. Mage://www.data.de/en/content/accredited-bodies-adatas	The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkrediterungsstelle GmbH (DAkkS). Exempted is the unchanged form of separate disseminations of the core where bet ly the conformity assessment body method one vertexl. No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS. The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I), ZAZS) and the Regulation (EC) No 755/2008 of the European Acceleration to the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Difical Journal of the European International Liboratory Acceleration Cooperation (EA). The signatories to these agreements recognition of the European Cooperation for Accreditation (EA). The signatories to these agreements recognition each other's accreditations. The up-to-clast state of membership can be retrieved from the following websites: EA: www.european-accreditation.org LAF: www.iaE.org LAF: www.iaE.org

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-12076-01-04e.pdf

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

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Every purpose of the	Office Berlin Spittelmarkt 10 10117 Berlin Office Frankfurt am Main Europa-Allee 52 60327 Frankfurt am Main Office Braunschweig Bundesallee 100 38116 Braunschweig The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Ackrediterungsstelle GmöH (DAXAS). Exempted is the unchanged form of separate dissemination of the core matter by the conformity assassment body methodice downelad.
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