EMC TEST REPORT

Title 47 CFR Part 15B, ISED ICES-003 Issue 7

Report Reference No	G0M-2112-1200-EF0115B-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	A2LA - Registration number: 1983.01 (ISED) ISED wireless device testing laboratory: CN 3470A DAkkS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	Robert Bosch GmbH
Address	Markwiesenstraße 58 72770 Reutlingen Germany
Test Specification Standard(s)	Title 47 CFR Part 15 Subpart B ISED ICES-Gen Issue 1 ; Amendment 1 (February 2021) ISED ICES-003 Issue 7 ANSI C63.4:2014+A1:2017
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	System controller
Model(s)	BRC3100
Additional Model(s)	None
Brand Name(s)	Bosch
Hardware Version(s)	H-PCB V3.0.1 V-PCB V4.1.3
Software Version(s)	AppSW V4.1.0
FCC-ID	2AWRC-BRC3100
IC	26294-BRC3100
Test Result	**PASSED**

Possible test case verdicts:	
required by standard but not tested	N/T
not required by standard	N/R
required by standard but not appl. to test object	N/A
test object does meet the requirement	P(PASS)
test object does not meet the requirement	F(FAIL)

Testing:		
Date of receipt of test item	2022-03-04	
Report:		
Compiled by	Brahima Drabo	
Tested by (+ signature)	Marco Neuner	
Tested by (+ signature) (Responsible for Test)	Jens Marquardt	
Approved by (+ signature) (Senior Test Lab Technician)	Matthias Handrik	
Date of Issue	2022-08-24	
Total number of pages	39	

General Remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional Comments:

None

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
T_{NOM}	Nominal operating temperature
V_{NOM}	Nominal supply voltage

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2022-08-24	Initial Release	-

REPORT INDEX

1 Equipment (Test Item) Under Test

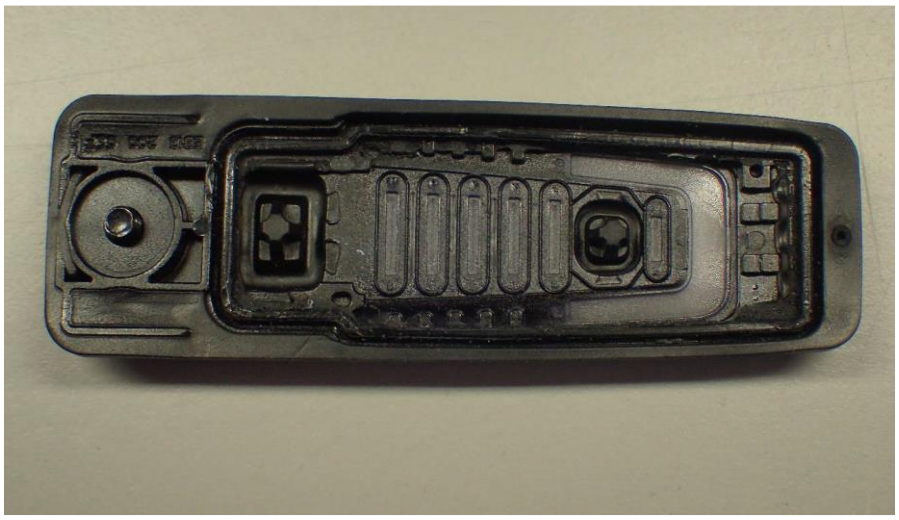
Description	System controller		
Intended Use	SystemController (abbreviation “BRC3100” used for the rest of the document) is a remote control unit for the Bosch eBike system and is intended to be mounted in the top tube of the eBike frame.		
Model	BRC3100		
Additional Model(s)	None		
Brand Name(s)	Bosch		
Hardware Version(s)	H-PCB V3.0.1 V-PCB V4.1.3		
Software Version(s)	AppSW V4.1.0		
Number of tested samples	1		
Sample Identification	EUT #	Sample-ID	Serial Number
	EUT 1	40169	18023 0013 01 368
EUT Dimensions [cm]	8.8 x 2.8 x 2.7		
FCC-ID	2AWRC-BRC3100		
IC	26294-BRC3100		
Class	Class B		
Equipment type	Table top		
Highest internal frequency [MHz]	2483.5 (Radio frequency) 110 (Clock frequency)		
Protective Earth	No		
Radio Module	Type	Bluetooth Low Energy (LE)	
	Model	DA14585	
	Manufacturer	Dialog Semiconductor	
	FCC-ID	2AWRC-BRC3100	
	IC	26294-BRC3100	
Supply Voltage	V_{NOM}	13.5 V DC via RSD simulator 5 V DC via AC/DC adapter 3.7 V DC rechargeable internal Lithium battery	
Manufacturer	Bosch (Zhuhai) Security Systems Ltd. 20 Ji Chang Bei Road- Qingwan Indu. Est. Sanzao 519070 Zhuhai China		

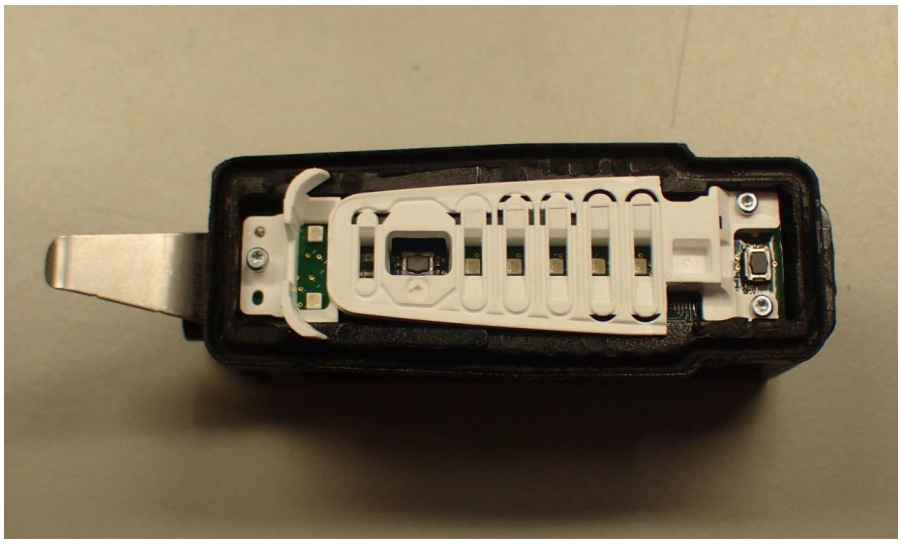
1.1 Equipment Ports

Name	Type	Attributes		Comment
HMI Port	DC / IO	Count: Direction: Max. cable length [m]: Connected to outdoor: Shielded: Service only:	1 IO 3 No Yes No	13.5V power supply and CAN
USB-C Port	IO	Count: Direction: Max. cable length [m]: Connected to outdoor: Shielded: Service only:	1 IO 3 No Yes No	used for charging the internal pouch battery but does not provide any output power

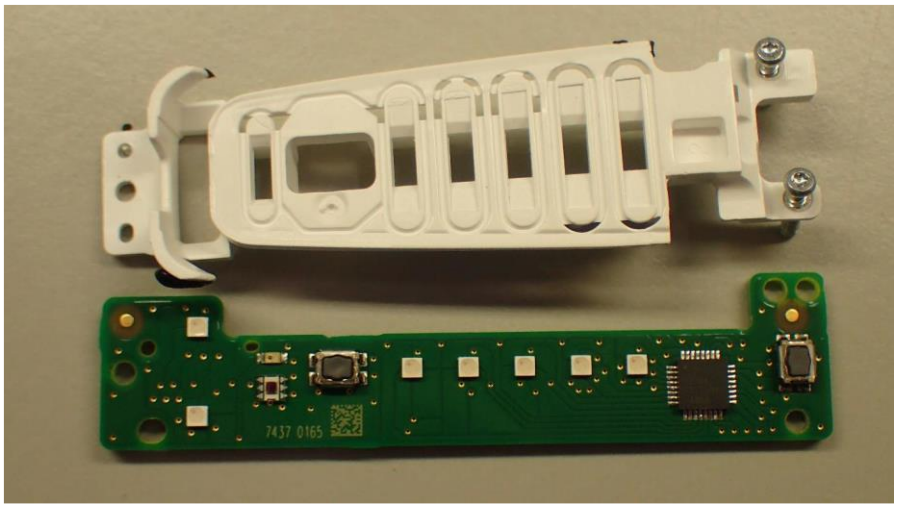
Description:	
AC	AC mains power input/output port
DC	DC power input/output port
BAT	DC power input port connected to external battery
IO	Input/Output port
TP	Telecommunication port
NE	Non-electrical port

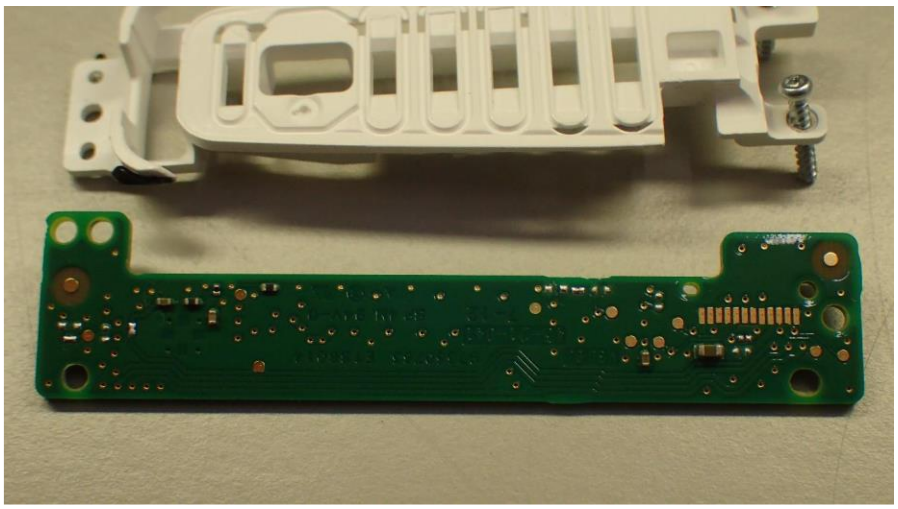
1.2 Equipment Photos – Internal

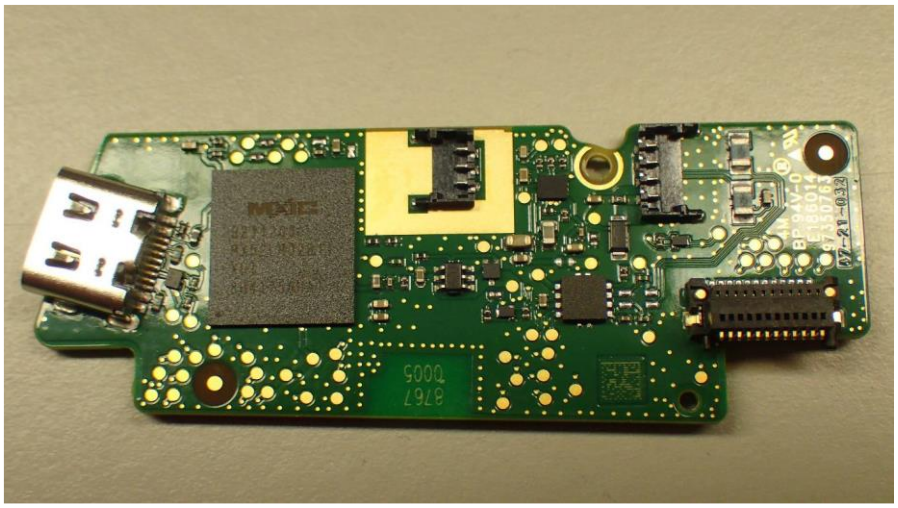
EUT TOP COVER OPEN – TOP SIDE


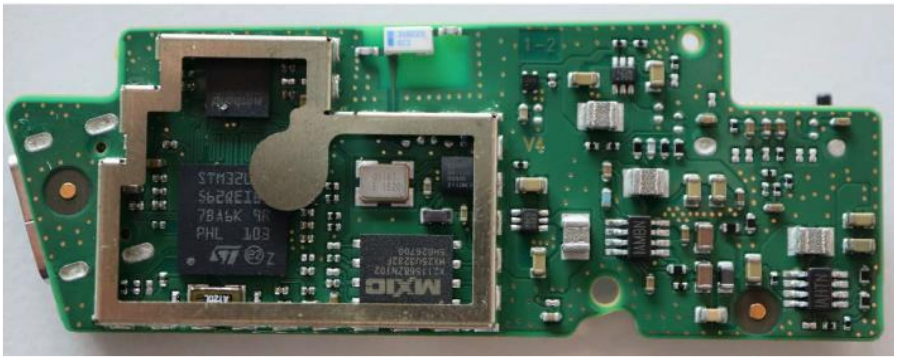
EUT TOP COVER OPEN – BOTTOM SIDE


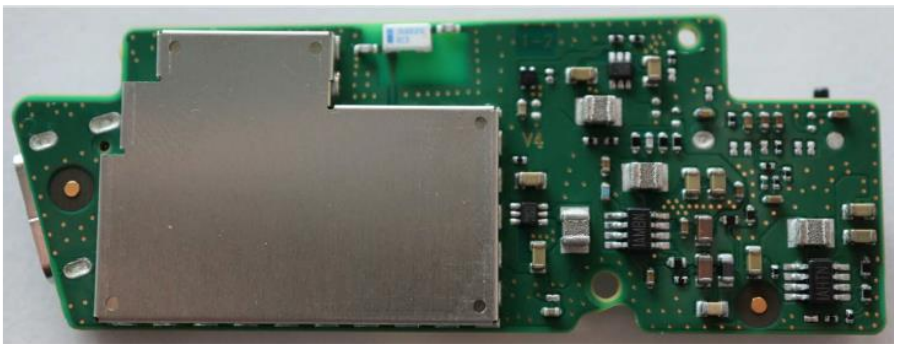
EUT BATTERY SIDE


EUT HORIZONTAL PCB UPSIDE


EUT HORIZONTAL PCB - DOWNSIDE


EUT VERTICAL PCB - UPSIDE


EUT VERTICAL PCB – DOWNSIDE – RADIO COMPONENTS


EUT VERTICAL PCB - DOWNSIDE


1.3 Equipment Photos – External

EUT UPSIDE

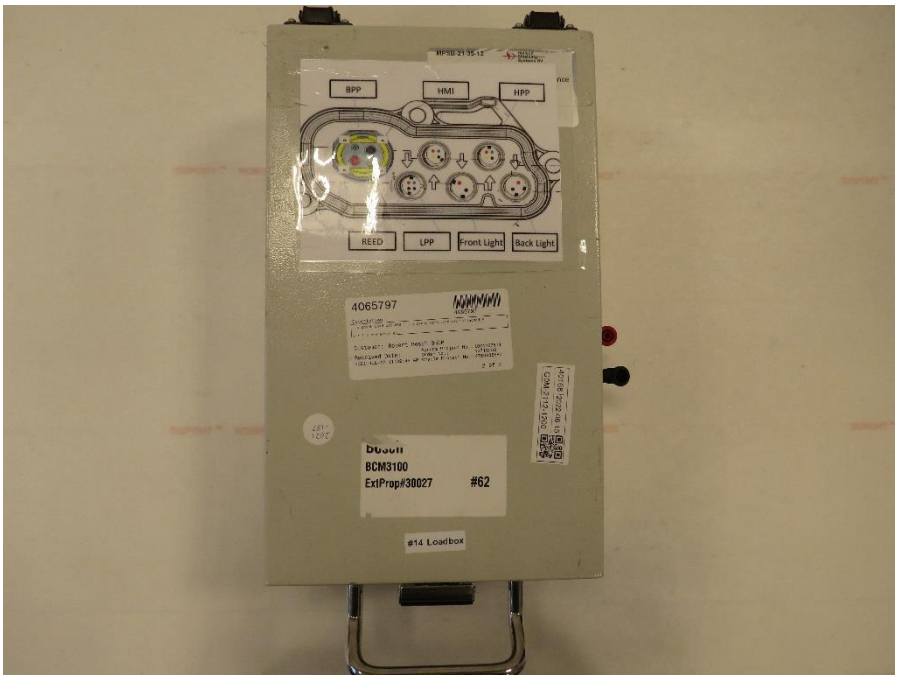

EUT DOWNSIDE

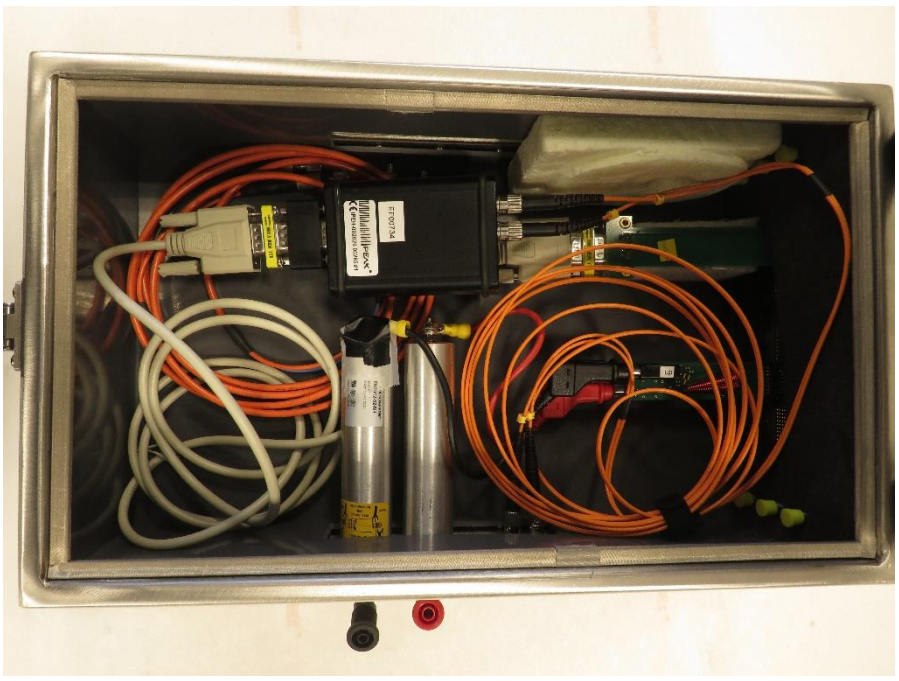

EUT RIGHT SIDE


EUT LEFT SIDE


EUT System Connector


EUT BACKSIDE – USB CONNECTOR - COVER OPEN


RDS Box


RDS Box internal


Label with serial number


Label from internal battery


1.4 Support Equipment

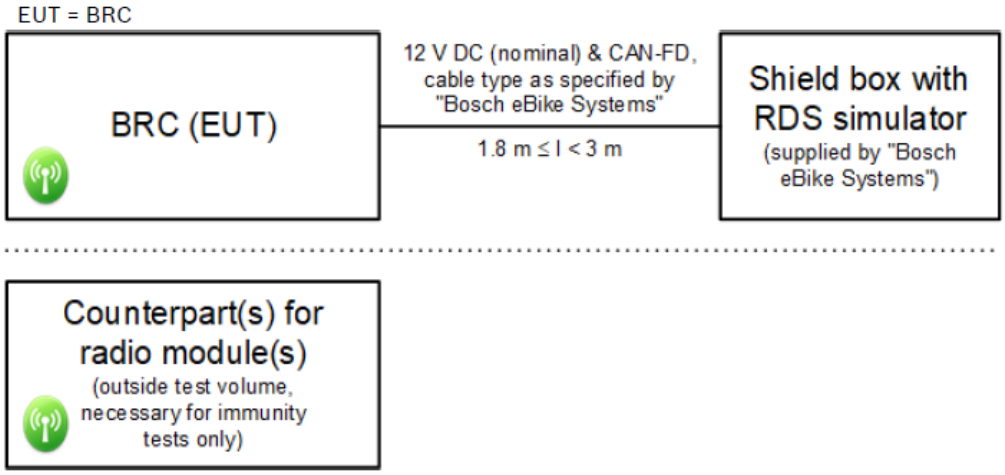
Product Type	Device	Manufacturer	Model	Comment
CBL	System cable	Robert Bosch GmbH	Bosch BCH 3611-1500	Customer Equipment; Sample-ID: 38504 Cable Length: 1.5 m
AE	Laptop 1	HP	EliteBook 820	Customer Equipment; Sample-ID: 40170 Bosch measurement tools LAIKA 1
AE	Laptop 2	HP	EliteBook 820	Customer Equipment; Sample-ID: 40171 Bosch measurement tools LAIKA 2
AE	Smartphone	Samsung	SM-A415F/DSN	Customer Equipment; Sample-ID: 40175 FlowApp
AE	AC/DC-adapter	unknown	S82A40	In: 100-240 V 50/60 Hz 0.3 A Out: 5.0 V 2.0 A 10.0 W
AE	Shield box with RDS simulator	Robert Bosch GmbH	BCN3100	Customer Equipment; Sample-ID: 40168
SW	Bluetooth- CAN-application	Robert Bosch GmbH	ITF_EMC_MONITOR_START	Customer Equipment
SW	Bluetooth- CAN-application	Robert Bosch GmbH	BRC_EMC_MONITOR_START Version: c0ae96bfa	Customer Equipment
SW	APP: Flow Dev	Robert Bosch GmbH	BLE Test communication stack	Customer Equipment

Description:	
AE	Auxiliary Equipment
SIM	Simulator
MON	Monitoring Equipment
CBL	Connecting Cable
SW	Software
Comment: --	

1.5 Operational Modes

Mode #	Description
1	• CAN-FD communication between EUT and RDS simulator • BLE communication between EUT and counterpart (Smartphone) • Walk assist request signal off • RDS simulator sends/receives data to Laptop1 and Laptop 2 via CAN connection. • USB power charging
Comment: --	

1.6 EUT Configuration

Configuration #	Description
1	• EUT powered by RDS simulator. • RDS simulator powered by external laboratory power supply unit. • The EUT is connected via BLE with the Smartphone. • The EUT is connected via CAN with the RDS simulator. • RDS simulator is connected with Laptop 1 and Laptop 2 via CAN connection. • The EUT is connected with AC/DC-adapter via USB-C connection. • The housing of the RDS simulator is connected to ground.  ➔ No BRC button pressed
Comment: --	

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyser in dBµV. Any external preamplifiers used are taken into account through internal analyser settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyser. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

Reading on Analyser (dBµV) + A.F. (dB/m) = Net field strength (dBµV/m)

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

Limit (dBµV/m) = 20*log (µV/m)

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading + AF	= Net Reading	:	Net reading - FCC limit	= Margin
+21.5 dBµV + 26 dB/m	= 47.5 dBµV/m	:	47.5 dBµV/m - 57.0 dBµV/m	= -9.5 dB

2 Result Summary

Title 47 CFR Part 15B, ISED ICES-003 Issue 7				
Reference	**Requirement**	**Reference Method**	**Result**	**Remarks**
Emission				
FCC 15.109 ICES-003, 3.2.2	Radiated emissions	ANSI C63.4:2014 +A1:2017	PASS	--
FCC 15.107 ICES-003, 3.2.1	AC power line conducted emissions	ANSI C63.4:2014 +A1:2017	PASS	--
Comment: --				

Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

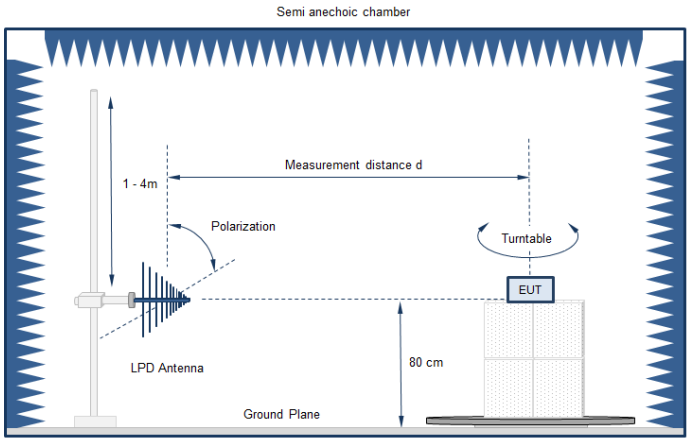
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

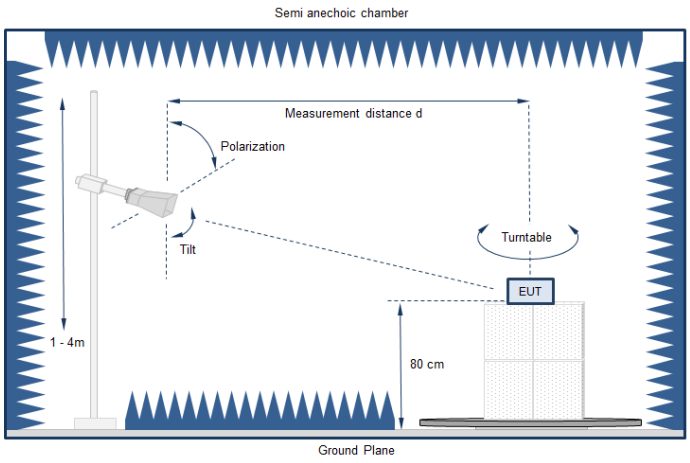
Test Information	
Reference	FCC 15.109, ICES-003, 3.2.2
Reference method	ANSI C63.4:2014+A1:2017 Section 8
Equipment class	Class B
Equipment type	Table top
Highest internal frequency [MHz]	2483.5 (Radio Frequency) 110 (Clock frequency)
Measurement range	30 MHz to 13000 MHz
Temperature [°C]	21 – 23
Humidity [%]	58 – 63
Operator	Marco Neuner
Date	2022-07-22

2.1.2 Setup

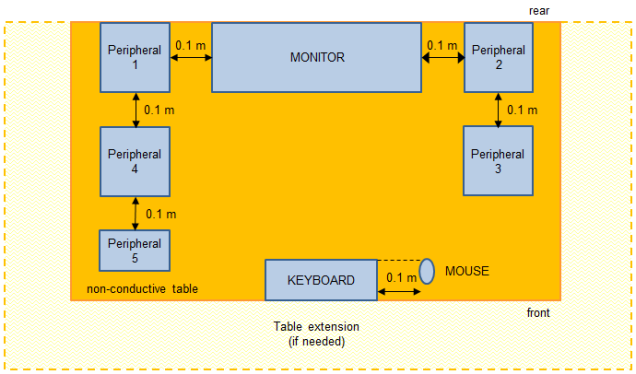
Measurement up to 1 GHz



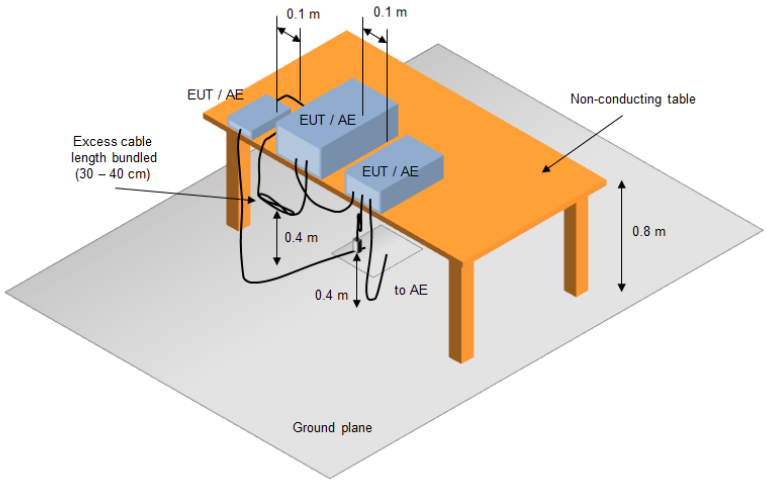
Measurement above 1 GHz



Equipment placement - Table top



Test Setup



2.1.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2022.1.3

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber (NSA)	Frankonia	AC1	EF00062	2021-02	2024-02
Anechoic chamber (SVSWR)	Frankonia	AC 1	EF01011	2022-06	2025-06
Programmable AC Source	Chroma ATE Inc.	61604	EF01068	2021-07	2022-07
EMI Test Receiver	Keysight	N9038A-526/WXP	EF01070	2021-07	2022-07
Biconical Antenna	R&S	HK 116	EF00030	2021-05	2024-05
LPD Antenna	R&S	HL 223	EF00187	2022-06	2025-06
Horn Antenna	Schwarzbeck	BBHA9120D	EF00018	2019-10	2022-10
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2022-04	2023-04

2.1.4 Procedure

Exploratory measurement
1. The EUT was placed on a non-conductive table at a height of 0.8m. 2. The EUT and support equipment, if needed, were set up to simulate typical usage. 3. Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage. 4. The antenna was placed at a distance of 3 or 10 m. 5. The received signal was monitored at the measurement receiver. 6. This procedure has to be performed in both antenna polarizations, horizontal and vertical. 7. The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 2.1.2

Final measurement
1. The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver. 2. A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast. 3. The EUT and cable arrangement were based on the exploratory measurement results. 4. Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded. 5. The test data of the worst-case conditions were recorded and shown on the next pages.

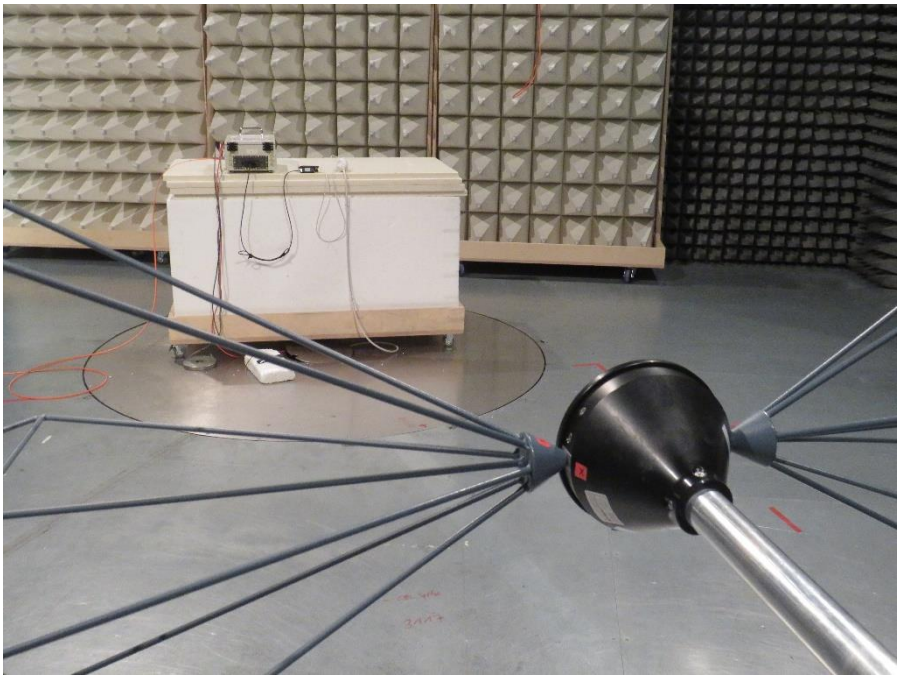
2.1.5 Limits

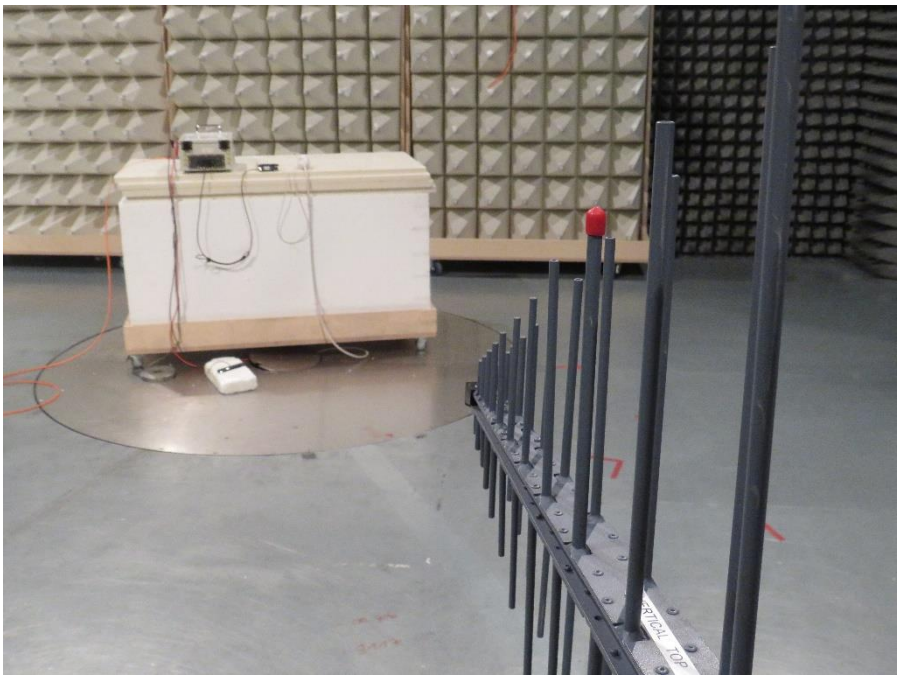
Class B @ 3 m		
Frequency [MHz]	Detector	Limit [dBµV/m]
30 - 88	Quasi-peak	40
88 - 216	Quasi-peak	43.5
216 - 960	Quasi-peak	46
960 - 1000	Quasi-peak	54
> 1000	Peak Average	74 54

2.1.6 Results

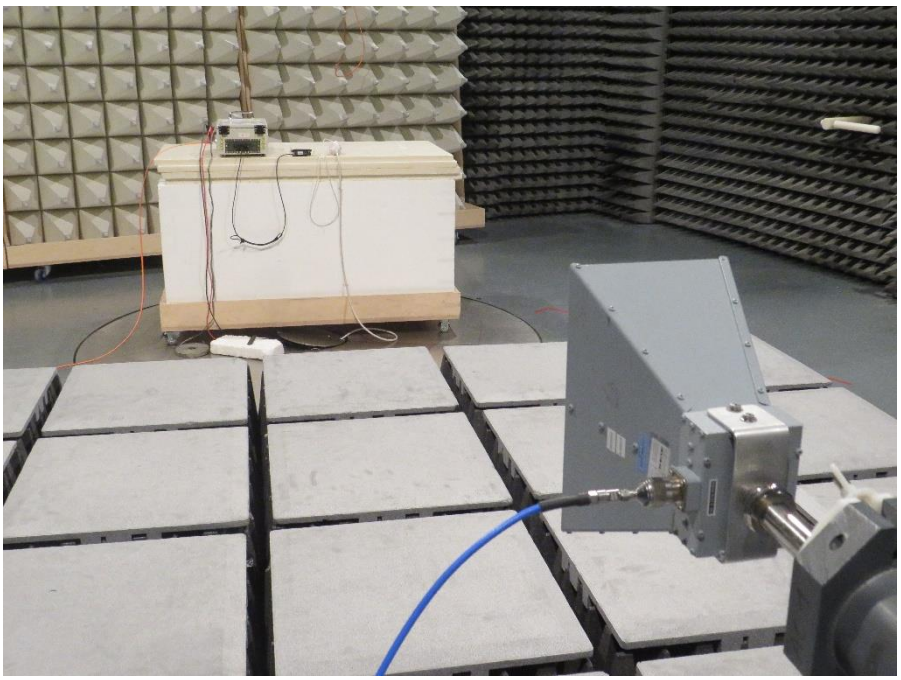
Test Results			
Operational mode	EUT Configuration	Verdict	Remark
1	1	PASS	AC/DC-adapter (120 V AC / 60 Hz)
Comment: --			

2.1.7 Setup Photos

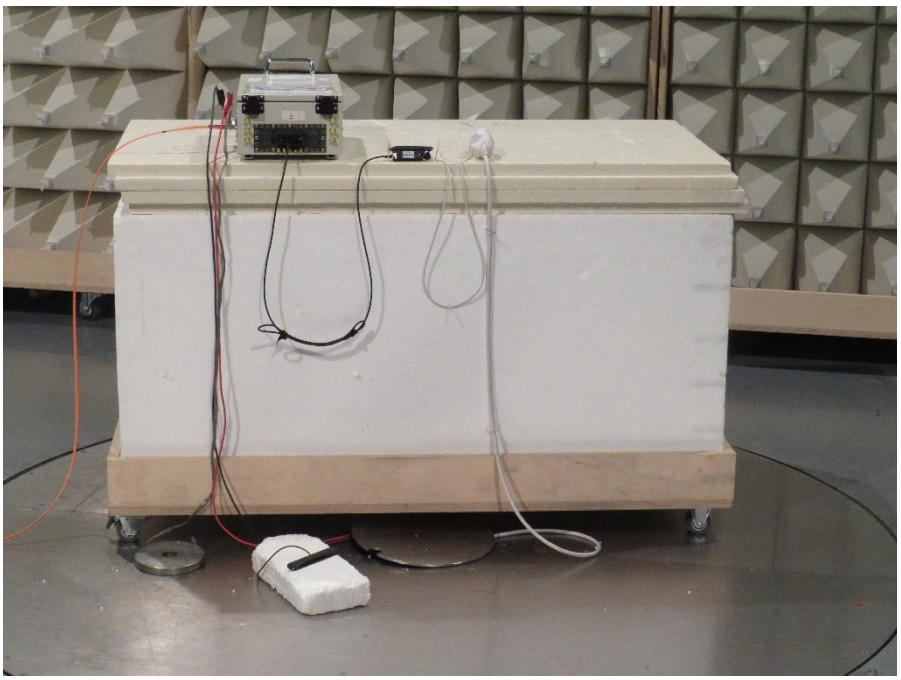
TEST SETUP - 30 MHz to 200 MHz


TEST SETUP - 200 MHz to 1000 MHz


TEST SETUP - 1 GHz to 13 GHz



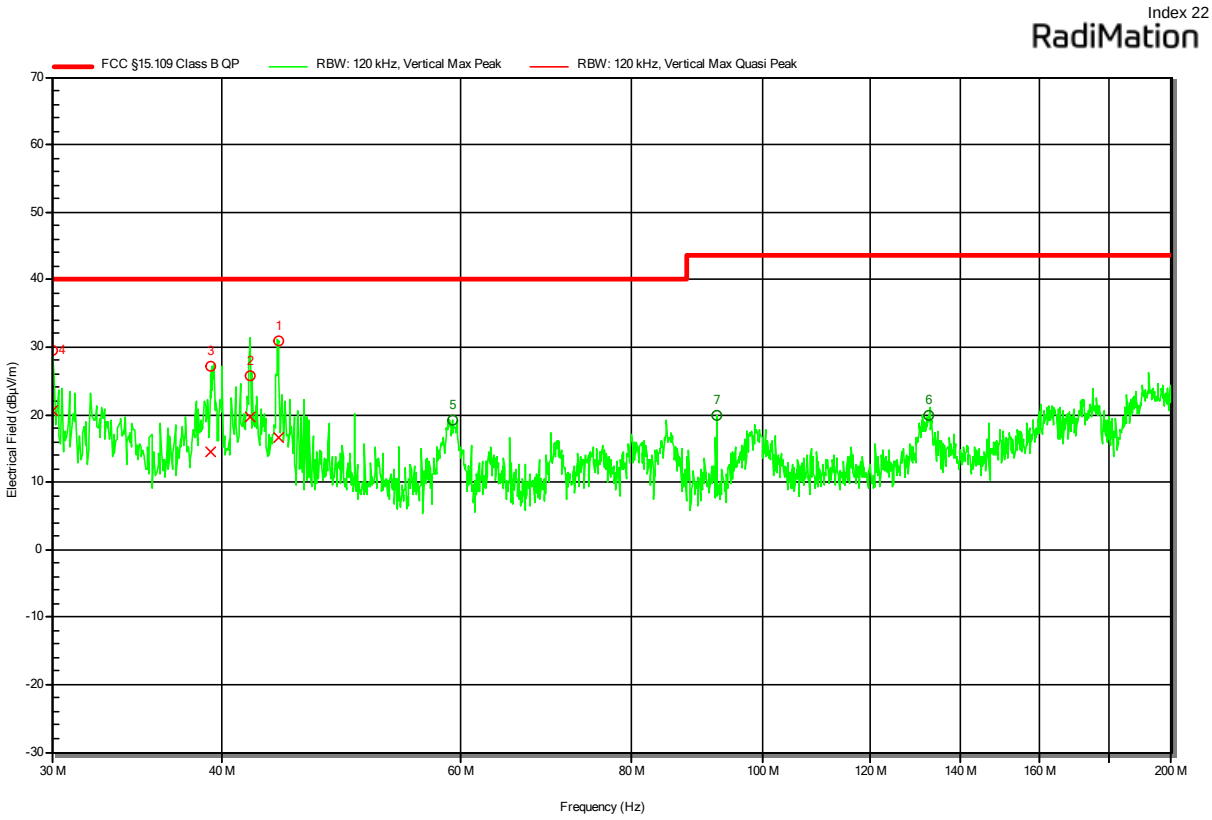
TEST SETUP - FOCUS



2.1.8 Records

Radiated emissions
according to FCC part 15B

Project Number:	G0M-2112-1200
Applicant:	Robert Bosch GmbH
Model Description:	eBike remote control unit
Model:	BRC3100
Test Sample ID:	40169
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Neuner
Test Date:	2022-07-22
Operating Conditions:	ambient temperature: 21 °Celsius power input: 13.5 V DC by RDS simulator + USB powered by AC/DC-adapter (120 V AC / 60 Hz)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement Distance:	3m
Operational Mode:	Mode 1
EUT Configuration:	Configuration 1
Note 1:	--



Peak Number	Frequency (MHz)	Quasi-Peak (dBµV/m)	Quasi-Peak Limit (dBµV/m)	Quasi-Peak Difference (dB)	Quasi-Peak Status	Angle (degrees)	Height (m)
1	44.06	16.57	40	-23.43	Pass	0	1
2	41.947	19.6	40	-20.4	Pass	0	1
3	39.295	14.57	40	-25.43	Pass	0	1
4	30	20.59	40	-19.41	Pass	0	1

Radiated emissions
according to FCC part 15B

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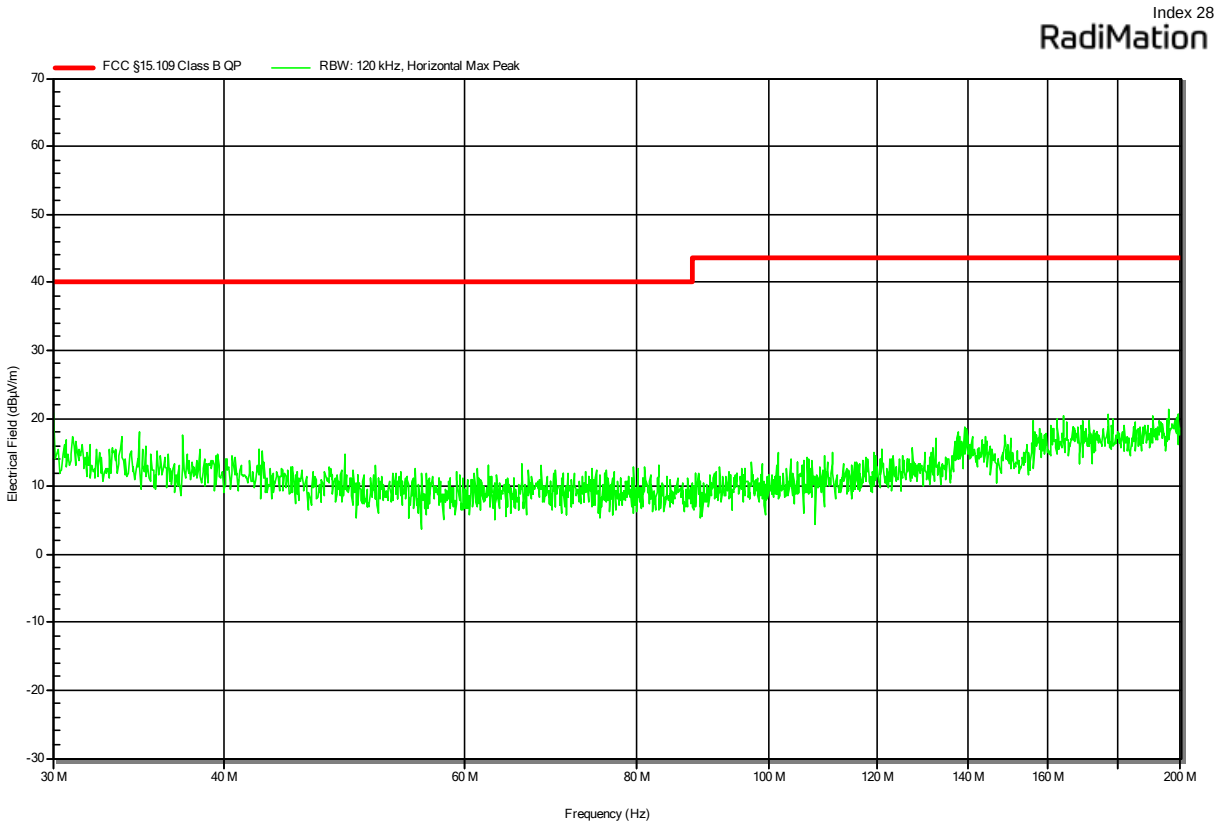

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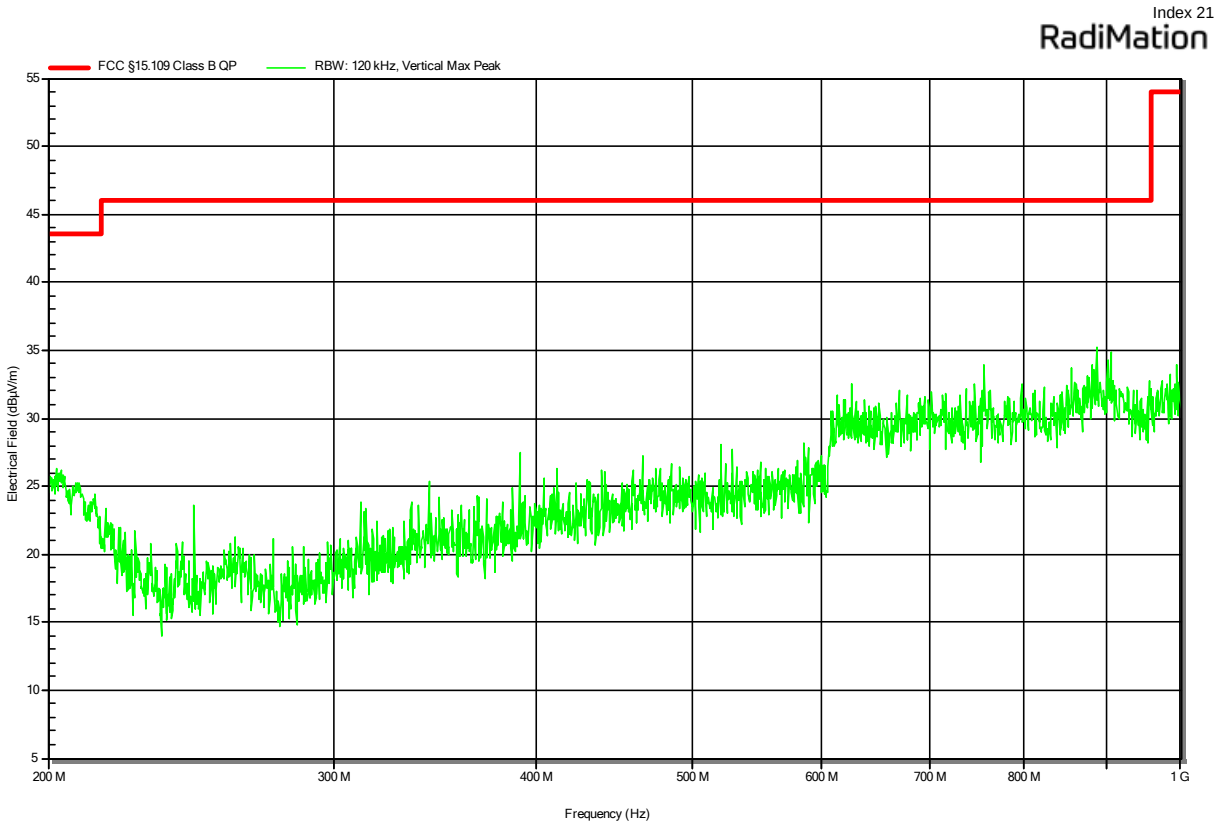
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement Distance:	3m
Operational Mode:	Mode 1
EUT Configuration:	Configuration 1
Note 1:	--



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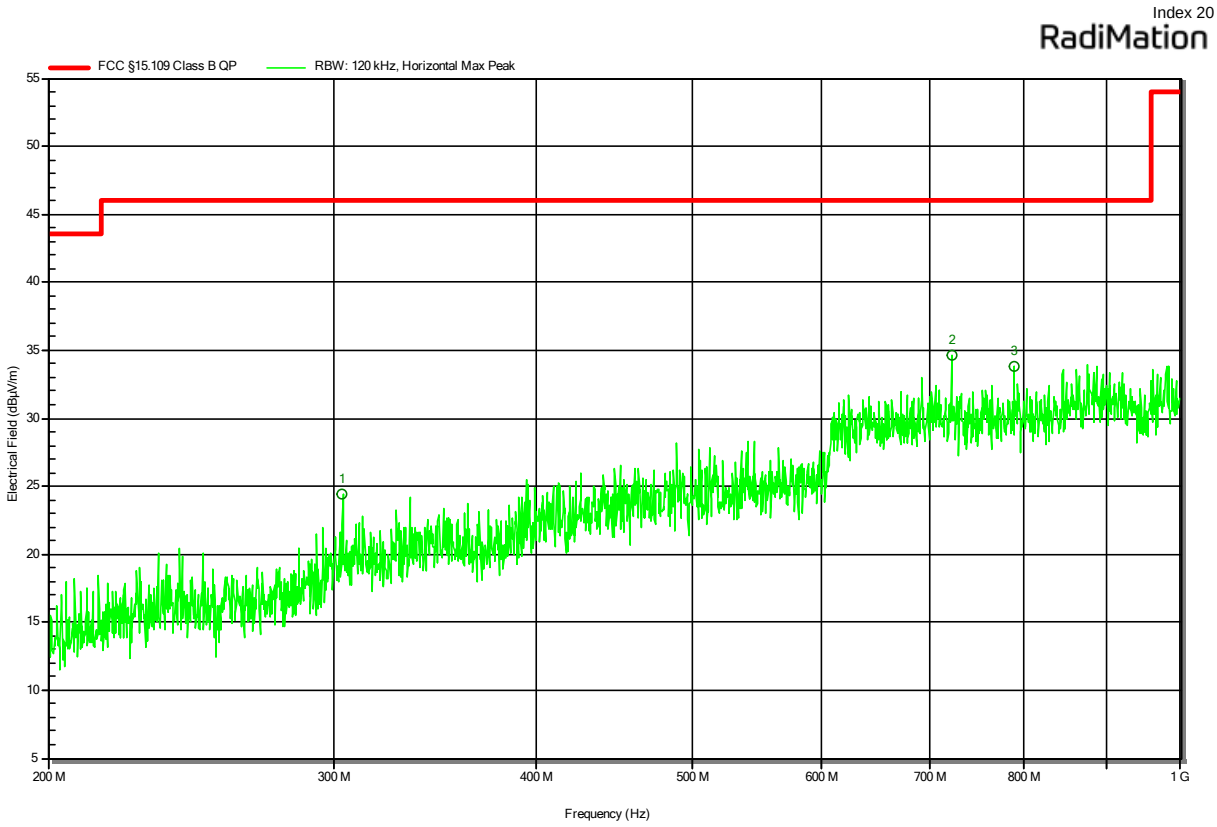
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement Distance:	3m
Operational Mode:	Mode 1
EUT Configuration:	Configuration 1
Note 1:	--



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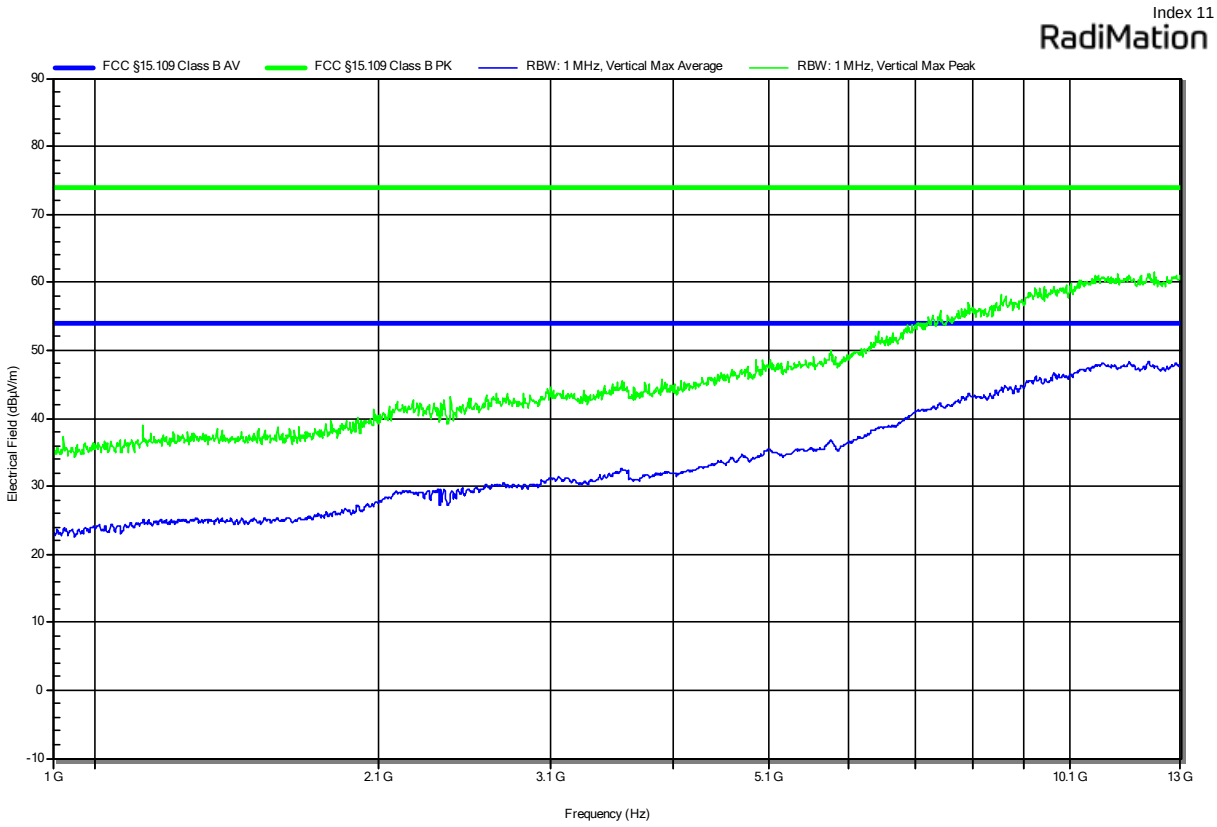
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement Distance:	3m
Operational Mode:	Mode 1
EUT Configuration:	Configuration 1
Note 1:	--



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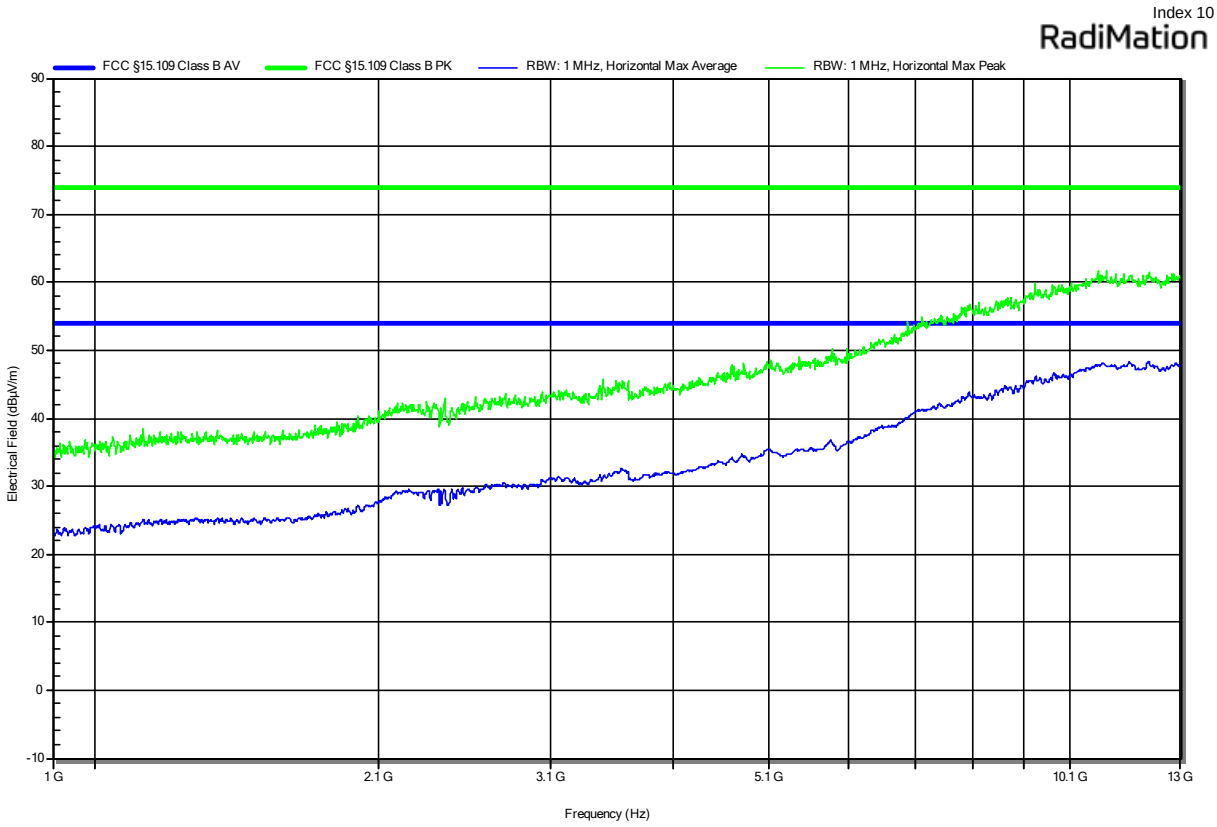
Operational Mode:	Mode 1
EUT Configuration:	Configuration 1
Note 1:	--



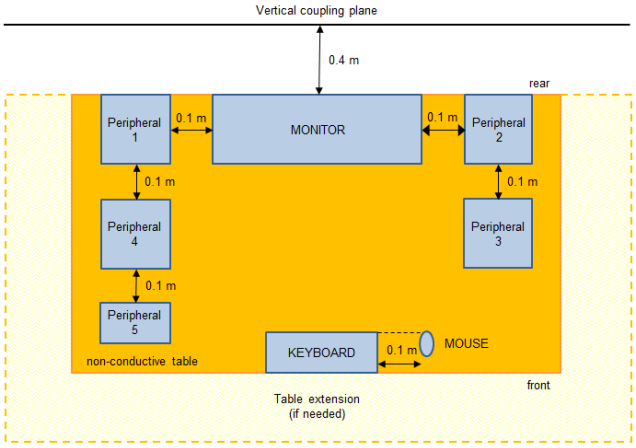
2.2 Test Conditions and Results - Conducted emissions acc. to ANSI C63.4

2.2.1 Information

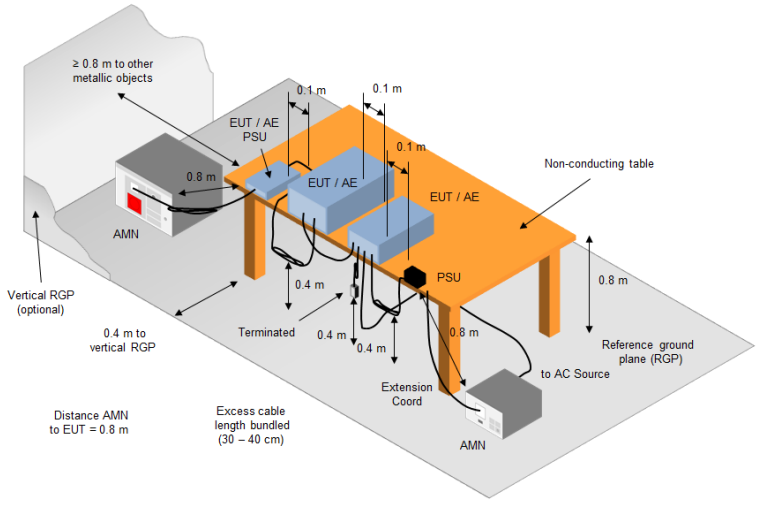
Test Information	
Reference	FCC 15.107, ICES-003, 3.2.1
Reference method	ANSI C63.4:2014+A1:2017 Section 12
Measurement range	150 kHz to 30 MHz
Equipment class	Class B
Equipment type	Table top
Temperature [°C]	26 – 28
Humidity [%]	35 – 37
Operator	Brahima Drabo supervised by Stefan Dose
Date	2022-08-09

2.2.2 Setup

Equipment placement



Test Setup



2.2.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	Schwarzbeck	NSLK 8127	EF01592	2021-07	2023-07
AMN	R&S	ESH3-Z5	EF00036	2021-08	2023-08
Pulse Limiter	R&S	ESH3-Z2	EF01063	2021-07	2023-07
EMI Test Receiver	R&S	ESR 7	EF00943	2021-08	2023-07
Climatic Sensor	Embedded Data Systems, LLC.	280010000025417E	EF01054	2022-04	2023-04

2.2.4 Procedure

Exploratory measurement
1. The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1)
2. The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
3. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length).
4. The LISN measurement port was connected to a measurement receiver
5. I/O cables were bundled not longer than 0.4 m
6. Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor
7. To maximize the emissions the cable positions were manipulated
8. The worst configuration of EUT and cables is shown on a test setup picture at item 2.2.2

Final measurement
1. The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1)
2. The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
3. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length).
4. The LISN measurement port was connected to a measurement receiver
5. The EUT and cable arrangement were based on the exploratory measurement results
6. The test data of the worst-case conditions were recorded and shown on the next pages

2.2.5 Limits

Class B		
Frequency [MHz]	Quasi-peak Limit [dBµV]	Average Limit [dBµV]
0.15 - 0.5	66 - 56 *	56 - 46 *
0.5 - 5	56	46
5 - 30	60	50
* Decreases with the logarithm of the frequency		

2.2.6 Results

AC power line conducted emissions					
Port	Coupling	Operational mode	EUT Configuration	Verdict	Remark
AC Mains	AMN	1	1	PASS	AC/DC-adapter (120 V AC / 60 Hz); Port of AC/DC-adapter
Comment: The AC/DC adapter was connected with an extension cord of 1m to Artificial Mains Network					

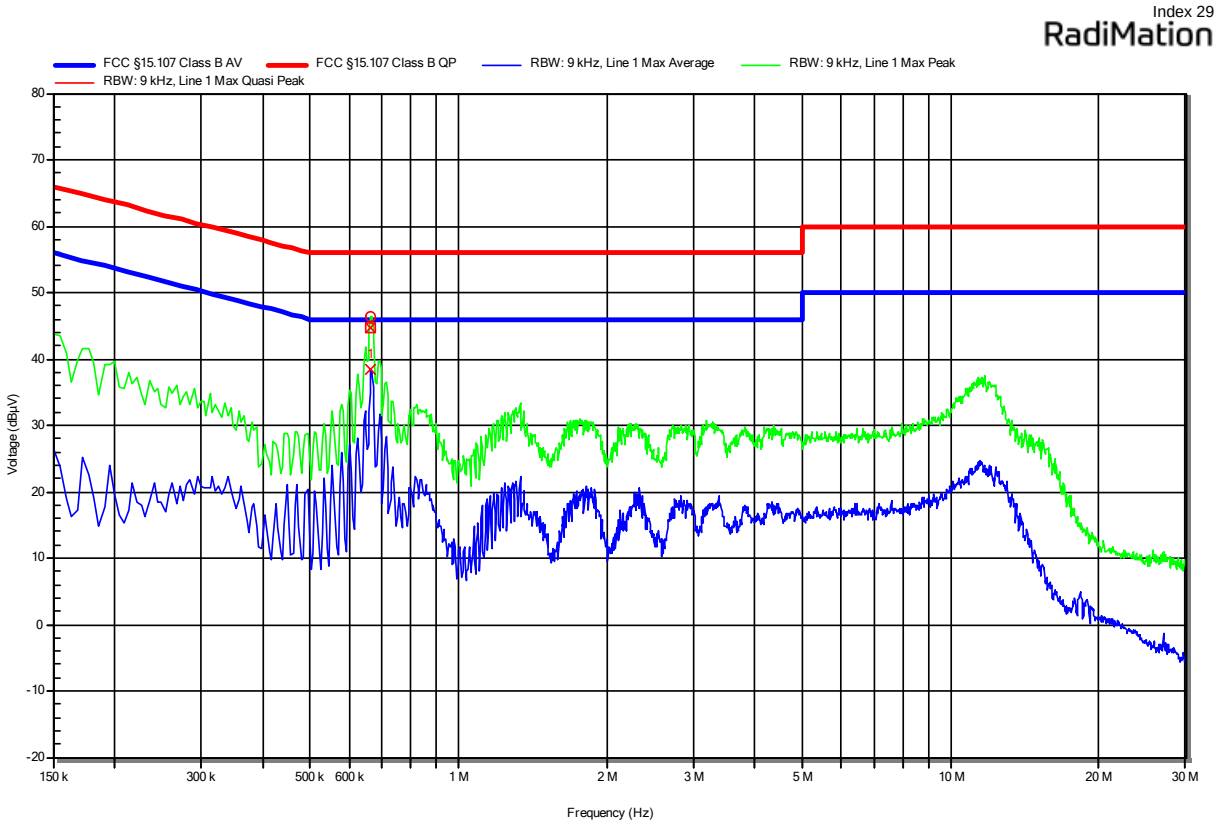
2.2.7 Setup Photos

TEST SETUP – AC Mains


2.2.8 Records

Conducted emissions at the mains power port
according to FCC part 15B

Project Number:	G0M-2112-1200
Applicant:	Robert Bosch GmbH
Model Description:	eBike remote control unit
Model:	BRC3100
Test Sample ID:	40169
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Drabo
Test Date:	2022-08-09
Operating Conditions:	ambient temperature: 26 °Celsius power input: 120 V AC / 60 Hz
LISN:	Schwarzbeck NSLK 8127 RC L1
Operational Mode:	Mode 1
EUT Configuration:	Configuration 1
Applied to Port:	AC Mains
Note 1:	Worst case: 95 % battery charged

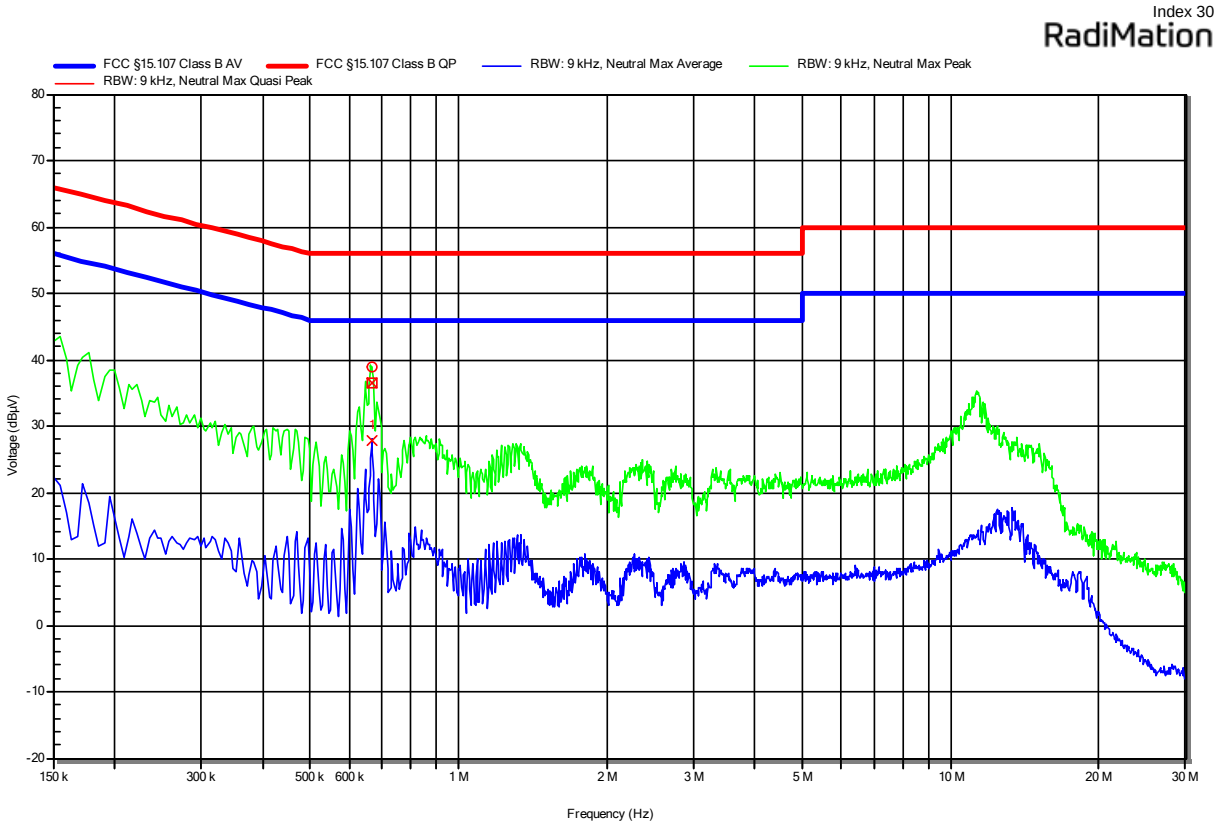


Peak Number	Frequency (MHz)	Quasi-Peak (dBµV)	Quasi-Peak (dBµV)	Limit	Quasi-Peak Difference (dB)	Quasi-Peak Status	LISN
1	0.664	44.75	56		-11.25	Pass	Line 1

Peak Number	Frequency (MHz)	Average (dBµV)	Average (dBµV)	Limit	Average Difference (dB)	Average Status	LISN
1	0.664	38.32	46		-7.68	Pass	Line 1

Conducted emissions at the mains power port
according to FCC part 15B

Project Number:	G0M-2112-1200
Applicant:	Robert Bosch GmbH
Model Description:	eBike remote control unit
Model:	BRC3100
Test Sample ID:	40169
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Drabo
Test Date:	2022-08-09
Operating Conditions:	ambient temperature: 26 °Celsius power input: 120 V AC 60 Hz
LISN:	Schwarzbeck NSLK 8127 N
Operational Mode:	Mode 1
EUT Configuration:	Configuration 1
Applied to Port:	AC Mains
Note 1:	Worst case: 95 % battery charged



Peak Number	Frequency (MHz)	Quasi-Peak (dBµV)	Quasi-Peak (dBµV)	Limit	Quasi-Peak Difference (dB)	Quasi-Peak Status	LISN
1	0.666	36.55	56		-19.45	Pass	Neutral

Peak Number	Frequency (MHz)	Average (dBµV)	Average (dBµV)	Limit	Average Difference (dB)	Average Status	LISN
1	0.666	27.89	46		-18.11	Pass	Neutral

3 Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2.

Test Name	Measurement Uncertainty
Conducted emissions at the mains power port	150kHz to 30MHz, 3.35dB
Radiated Emission	30MHz to 200MHz @ 3m, 5.1dB 200MHz to 1GHz @ 3m, 5.3dB >1GHz to 6GHz @3m, 5.95dB