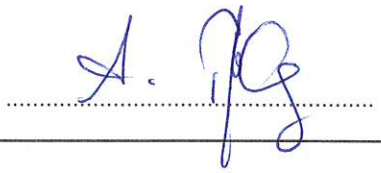
EMC TEST REPORT

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

Report Reference No	G0M-2111-1148-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	Corsano Health B.V.
Address	The Hague Tech Wilhelmina van Pruisenweg 35 2595 AN Den Haag NETHERLANDS
Test Specification Standard(s)	Title 47 CFR Part 15 Subpart B ISED ICES-003 Issue 7 ANSI C63.4:2014+A1:2017
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Wearable Bracelet for continuous monitoring of body metrics
Model(s)	CardioWatch 287-2B
Additional Model(s)	None
Brand Name(s)	Corsano Health
Hardware Version(s)	V1.0
Software Version(s)	V1.0
FCC-ID	2AXRW0003
IC	27962-0003
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	2022-01-04
Report:	

Compiled by	Matthias Handrik	
Tested by (+ signature) (Responsible for Test)	Matthias Handrik	
Approved by (+ signature) (EMC Test Technician)	Andreas Pflug	
Date of Issue	2022-03-21	
Total number of pages	43	

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:

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	2022-03-21	Initial Release	-

REPORT INDEX

1 Equipment (Test Item) Under Test

Description	Wearable Bracelet for continuous monitoring of body metrics	
Intended Use	The Corsano CardioWatch is an essential part of a cardiac arrhythmia screening system that can, by providing a simple and effective method for continuous monitoring of the user's heart rhythm, help identify the risk of a heart attack in an early stage. In its most extended version, the system consists of a bracelet plus a dedicated app on the user's smartphone.	
Model	CardioWatch 287-2B	
Additional Model(s)	None	
Brand Name(s)	Corsano Health	
Serial Number(s)	01000108 (shows in Corsano Trial App)	
Sample ID	37995	
Hardware Version(s)	V1.0	
Software Version(s)	V1.0	
EUT Dimensions [cm]	4.15 x 2.44 x 0.975	
FCC-ID	2AXRW0003	
IC	27962-0003	
Class	Class B	
Equipment type	Table top	
Highest internal frequency [MHz]	32 clock frequency; 2450	
Protective Earth	No	
Radio Module	Type	Bluetooth Low Energy Module
	Model	Unspecified
	Manufacturer	Unspecified
	FCC-ID	Unspecified
	IC	Unspecified
Supply Voltage	V_{NOM}	3.6V DC (rechargeable battery)
AC/DC-Adaptor	None	
Manufacturer	Corsano Health B.V. The Hague Tech Wilhelmina van Pruisenweg 35 2595 AN Den Haag NETHERLANDS	
Factory	Manufacture Modules Technologies S.A. Chemin du Pre-Fleuri 5 1228 Plan-les-Ouates Switzerland	

1.1 Equipment Ports

Name	Type	Attributes	Comment
None			
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		

1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	AC/DC adaptor	Panasonic	VSK0815K	-
AE	Magnetic cable for charging	Corsano Health B.V.	-	Customer Support Equipment
AE	Smartphone	Motorola	MOTO G4 Plus (XT1642)	-
AE	Software Application	Corsano Health B.V.	Corsano Trials 1.2-160	Customer Support Equipment
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
MON	Monitoring Equipment			
CBL	Connecting Cable			
Comment:				

1.5 Operational Modes

Mode #	Description
1	Bluetooth Low Energy connection to Smartphone. EUT settings via Software application: 32Hz PPG: Continuous; Heart Rate: Each 10s; Activity: Each minute.
2	Bluetooth Low Energy connection to Smartphone and charging.
Comment:	

1.6 EUT Configuration

Configuration #	Description
1	EUT fully charge. Bluetooth RF connection to Smartphone.
2	EUT assembled with USB-charging wire to AC/DC adaptor.
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

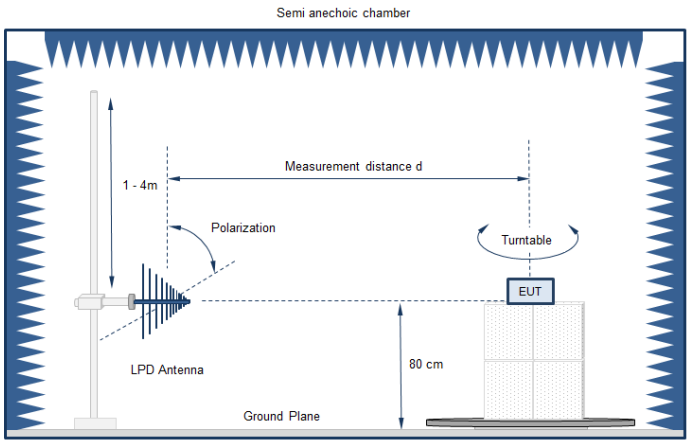
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

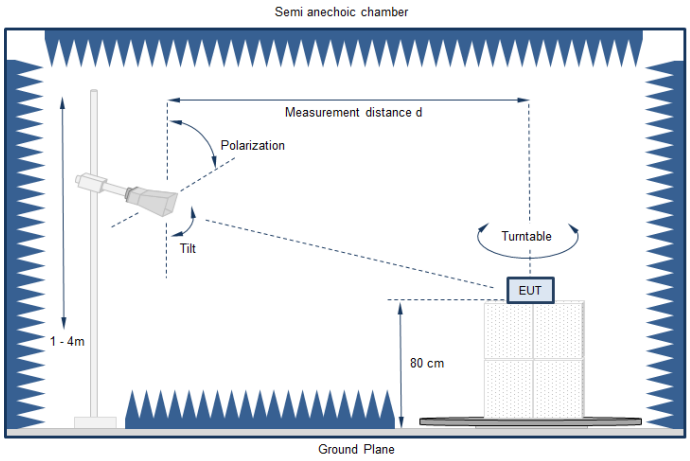
Test Information	
Reference	FCC 15.109, ICES-003, 3.2.2
Reference method	ANSI C63.4:2014+A1:2017 Section 8
Equipment class	Class B
Equipment type	Table top
Highest internal frequency [MHz]	2450
Measurement range	30 MHz to 13000 MHz
Temperature [°C]	22 ±3
Humidity [%]	25 ±3
Operator	Matthias Handrik
Date	2022-02-28

2.1.2 Setup

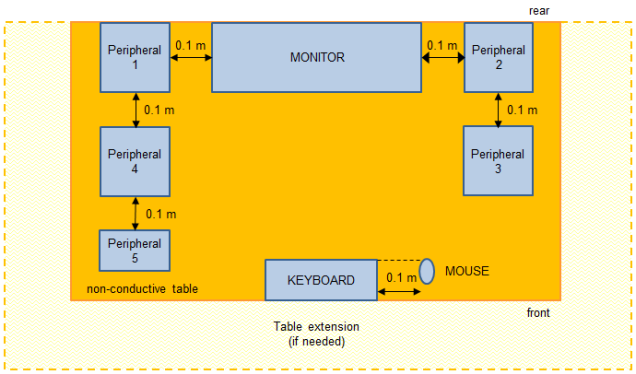
Measurement up to 1 GHz



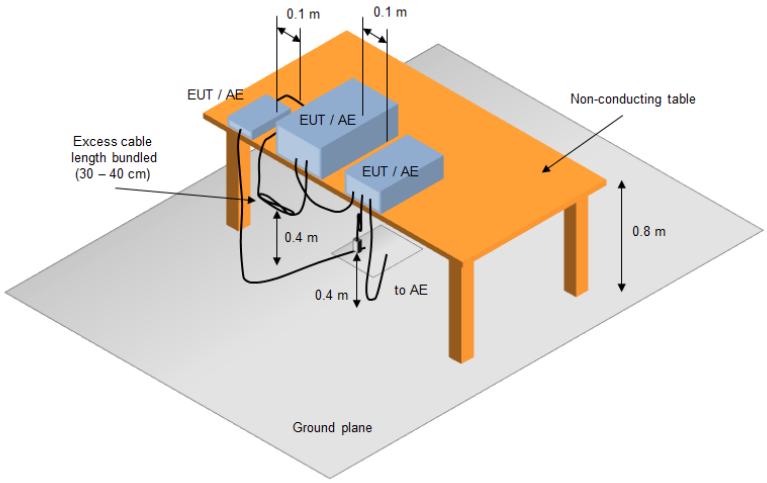
Measurement above 1 GHz



Equipment placement - Table top



Test Setup



2.1.3 Equipment

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

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	2019-06	2022-06
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	2019-05	2022-05
Horn Antenna	Schwarzbeck	BBHA9120D	EF00018	2019-10	2022-10
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2021-03	2022-03

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

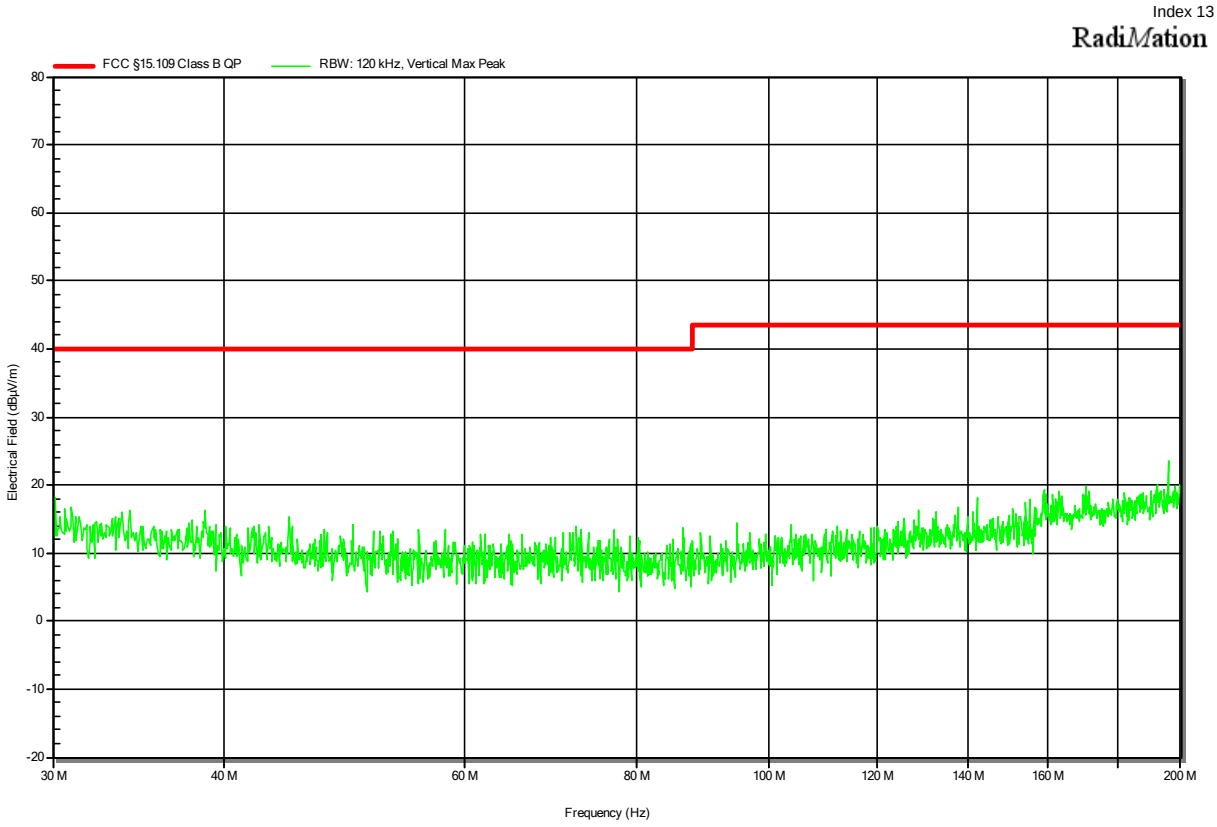
2.1.6 Results

Test Results			
Operational mode	EUT Configuration	Verdict	Remark
1	1	PASS	-
2	2	PASS	-

2.1.8 Records

Radiated emissions
according to FCC part 15B

Project Number:	G0M-2111-1148
Applicant:	Corsano Health B.V.
Model Description:	Wearable Bracelet for continuous monitoring of body metrics
Model:	CardioWatch 287-2B
Test Sample ID:	37995
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Date:	2022-02-28
Operating Conditions:	ambient temperature: 22 °Celsius power input: 3.6V DC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	



Radiated emissions
according to FCC part 15B

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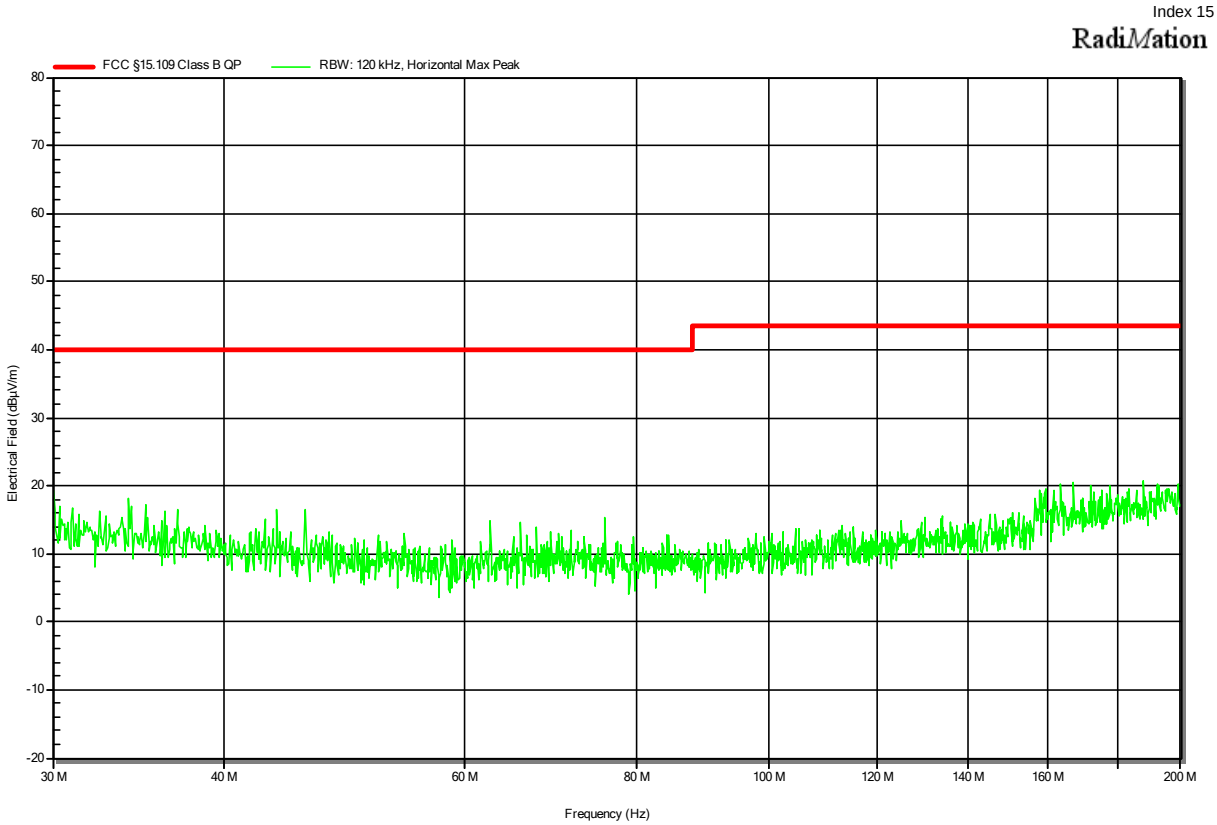
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	



Radiated emissions
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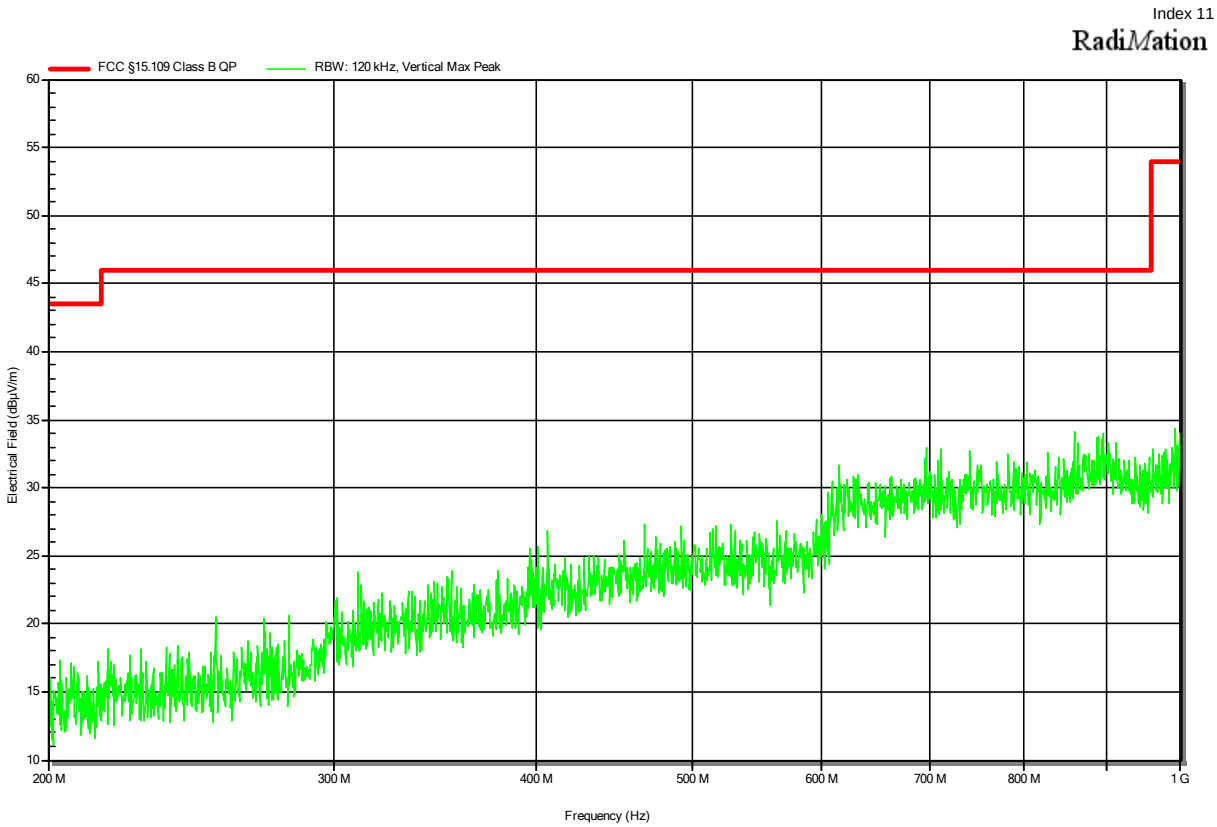
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	



Radiated emissions
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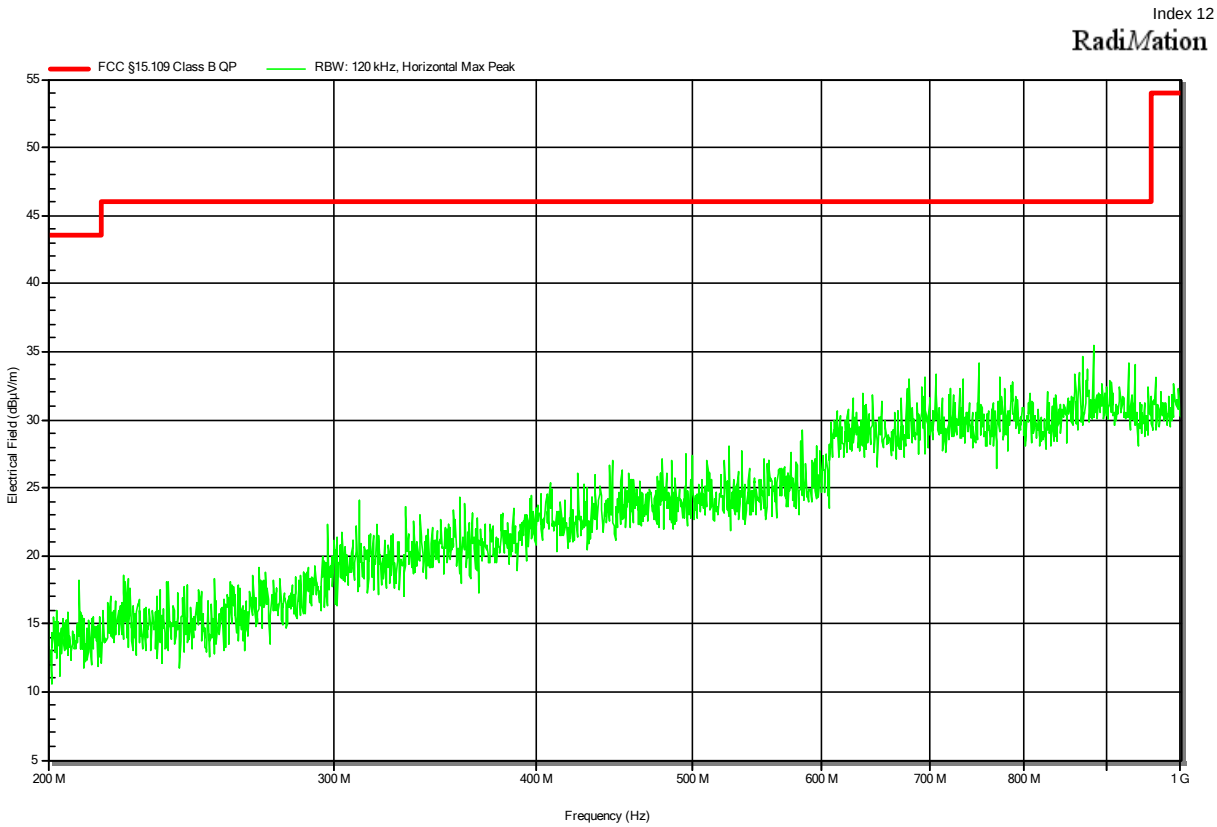
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	



Radiated emissions
according to FCC part 15B

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Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Date:	2022-02-28
Operating Conditions:	ambient temperature: 22 °Celsius power input: 3.6V DC
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	

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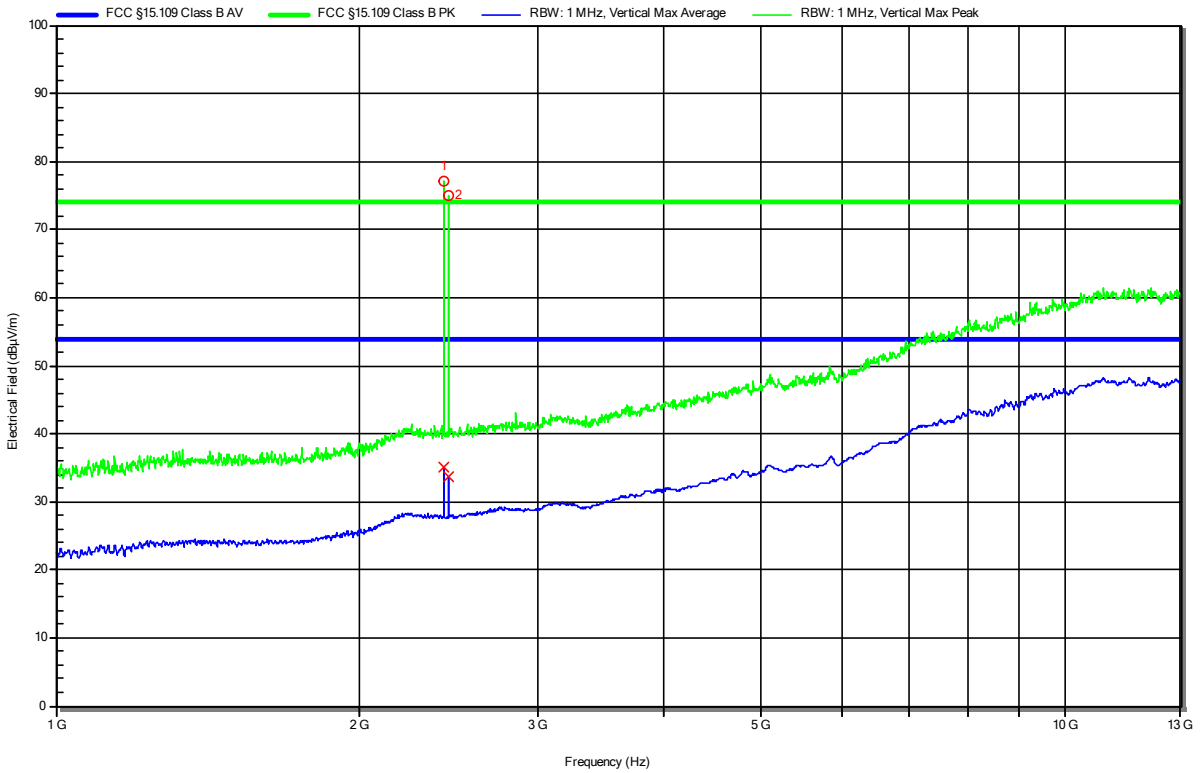

Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	2.42 GHz	Bluetooth Low					
2	2.448 GHz	Energy carrier					

Radiated emissions
according to FCC part 15B

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Operator:	Mr. Handrik
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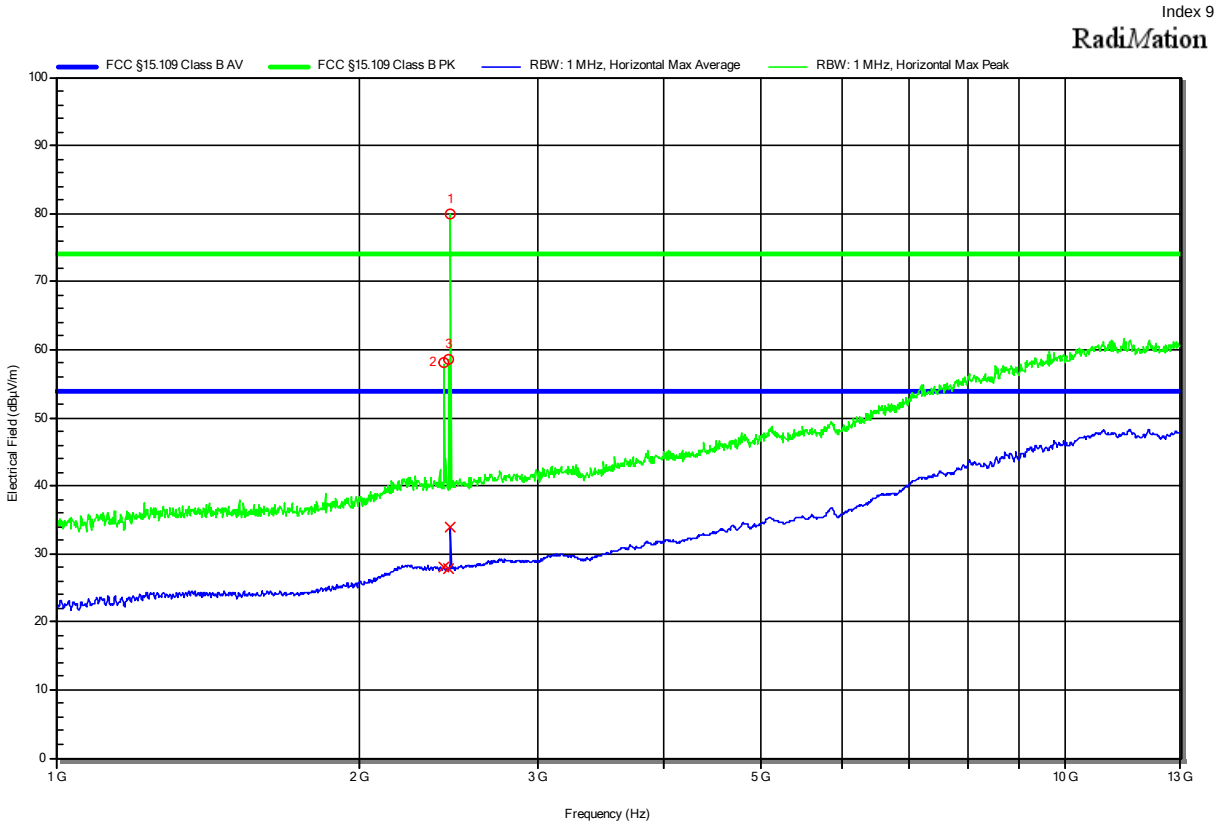
Operating Conditions:	ambient temperature: 22 °Celsius power input: 3.6V DC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	



Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	2.459 GHz	Bluetooth Low Energy carrier					
2	2.424 GHz						
3	2.452 GHz						

Radiated emissions
according to FCC part 15B

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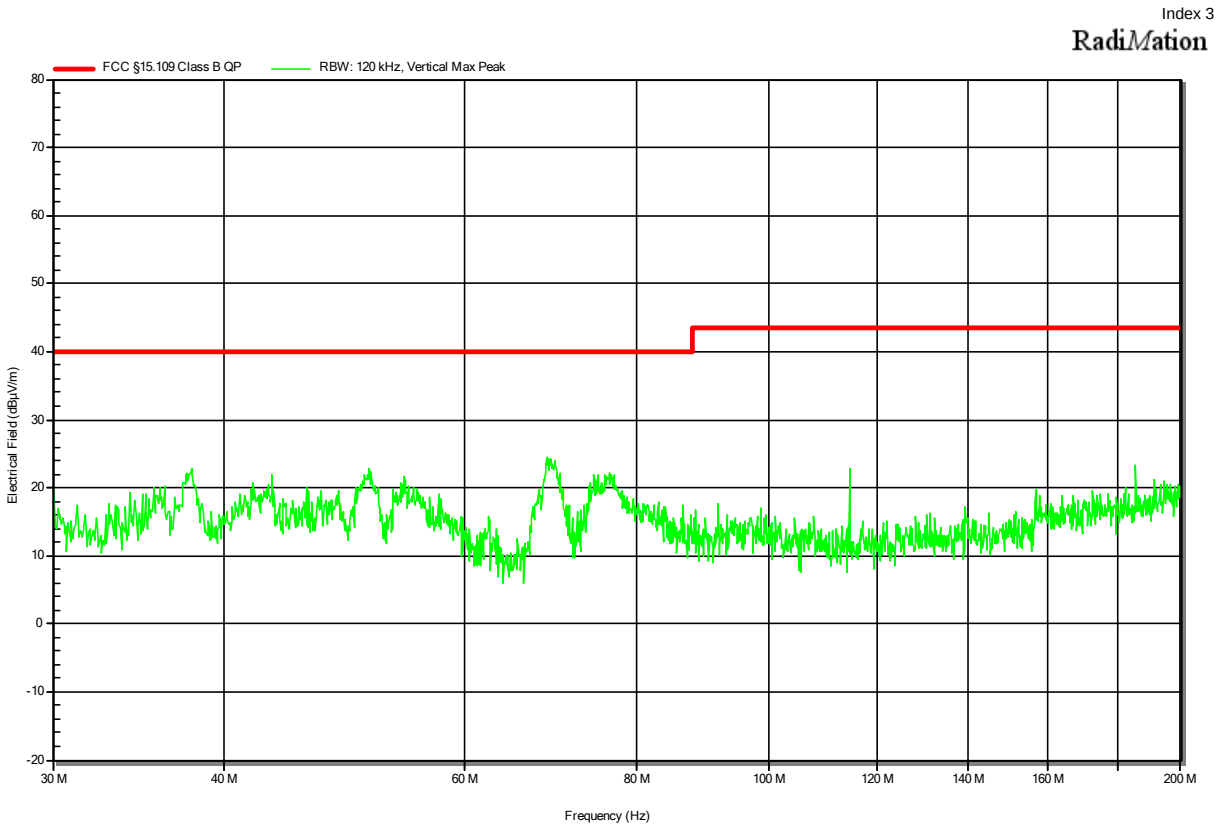
Test Sample ID:	37995
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Date:	2022-02-28
Operating Conditions:	ambient temperature: 22 °Celsius power input: 120V AC / 60Hz
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement Distance:	3m
Operational Mode:	2
EUT Configuration:	2
Note 1:	



Radiated emissions
according to FCC part 15B

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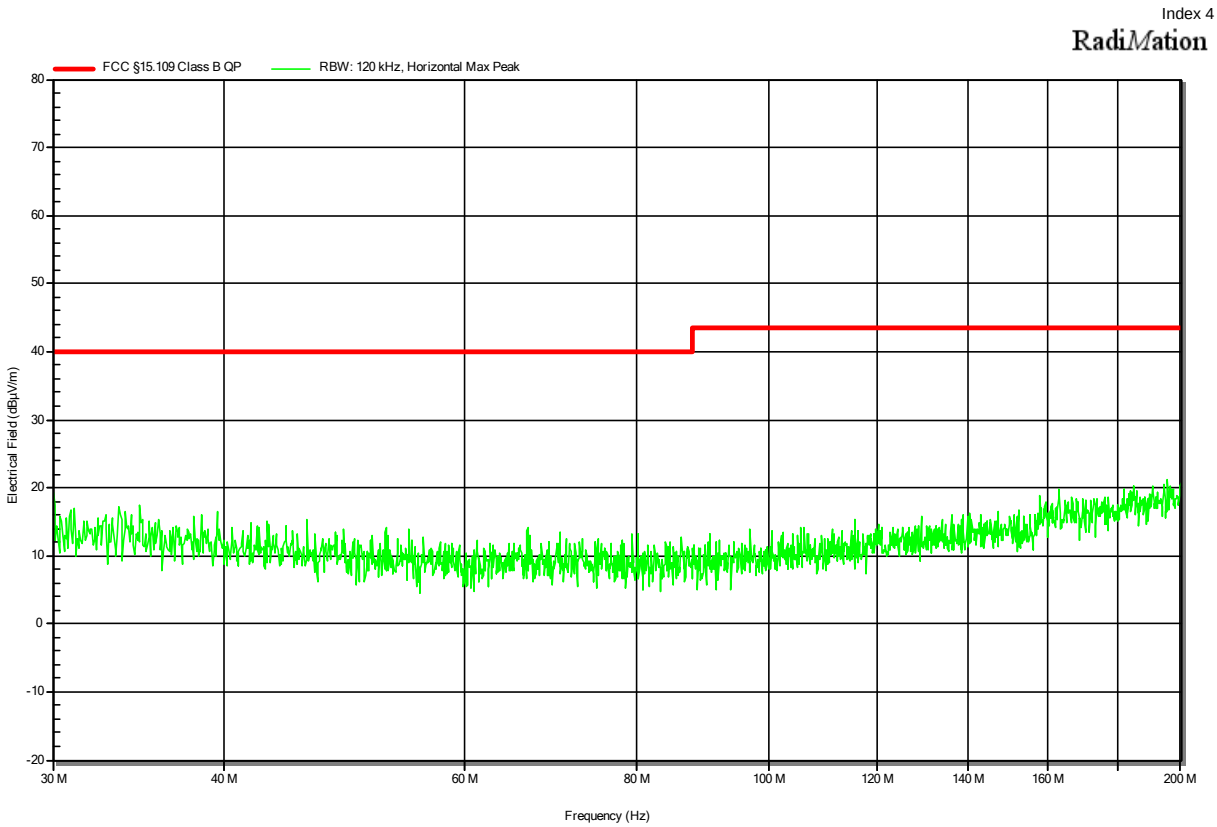
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement Distance:	3m
Operational Mode:	2
EUT Configuration:	2
Note 1:	



Radiated emissions
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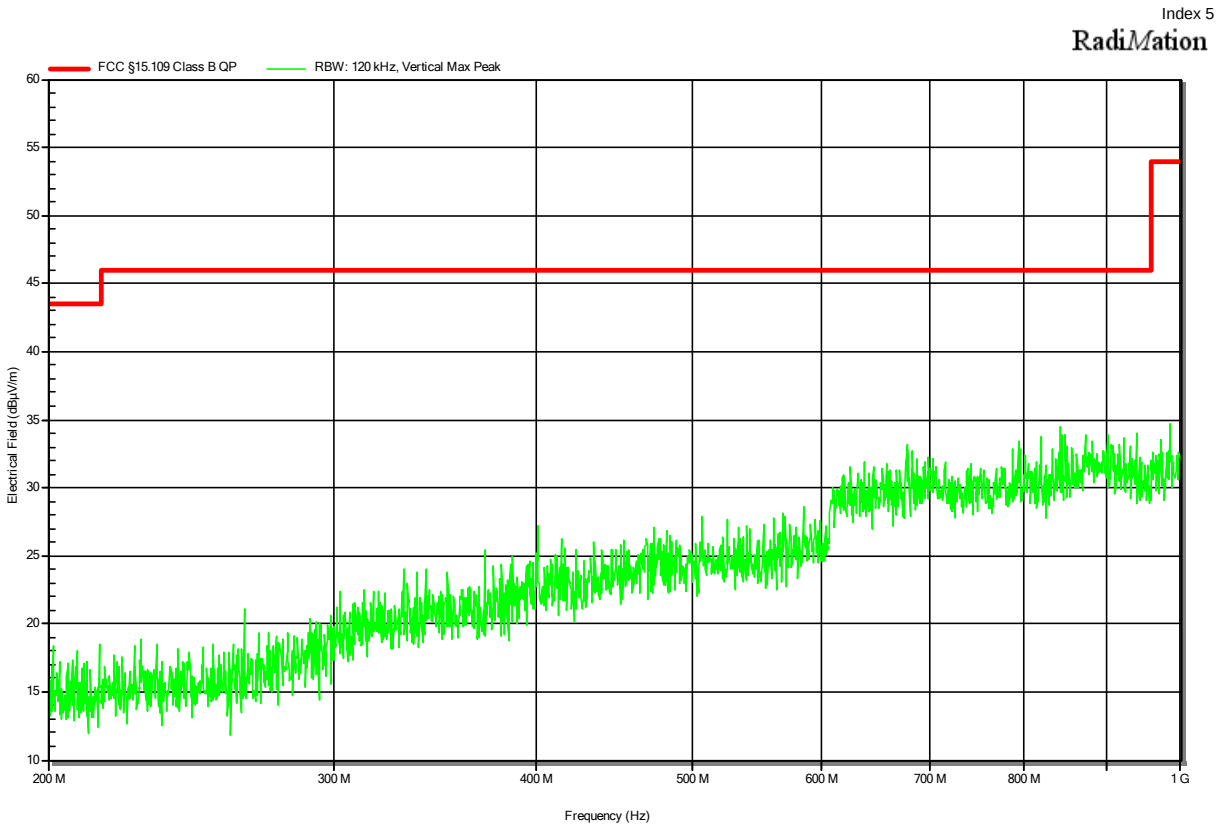
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement Distance:	3m
Operational Mode:	2
EUT Configuration:	2
Note 1:	



Radiated emissions
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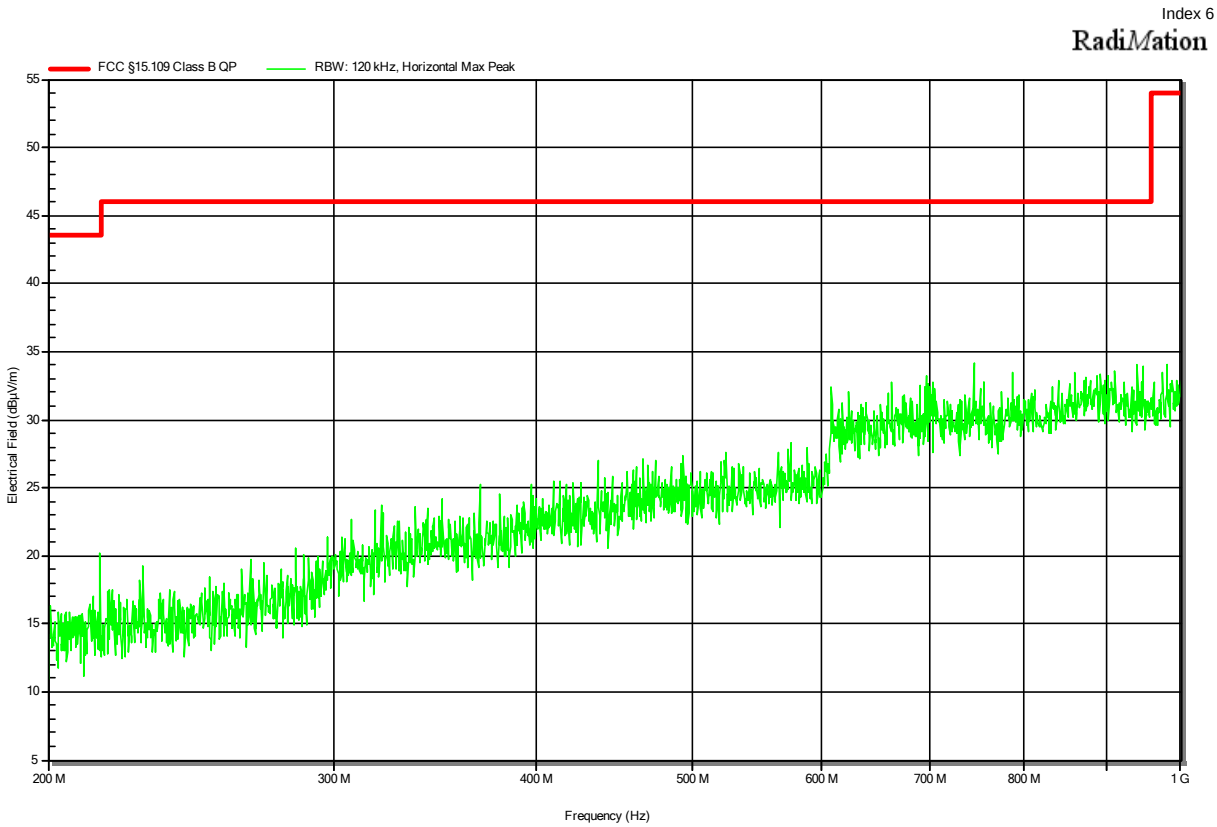

Radiated emissions
according to FCC part 15B

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Operator:	Mr. Handrik
Test Date:	2022-02-28
Operating Conditions:	ambient temperature: 22 °Celsius power input: 120V AC / 60Hz
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement Distance:	3m
Operational Mode:	2
EUT Configuration:	2
Note 1:	

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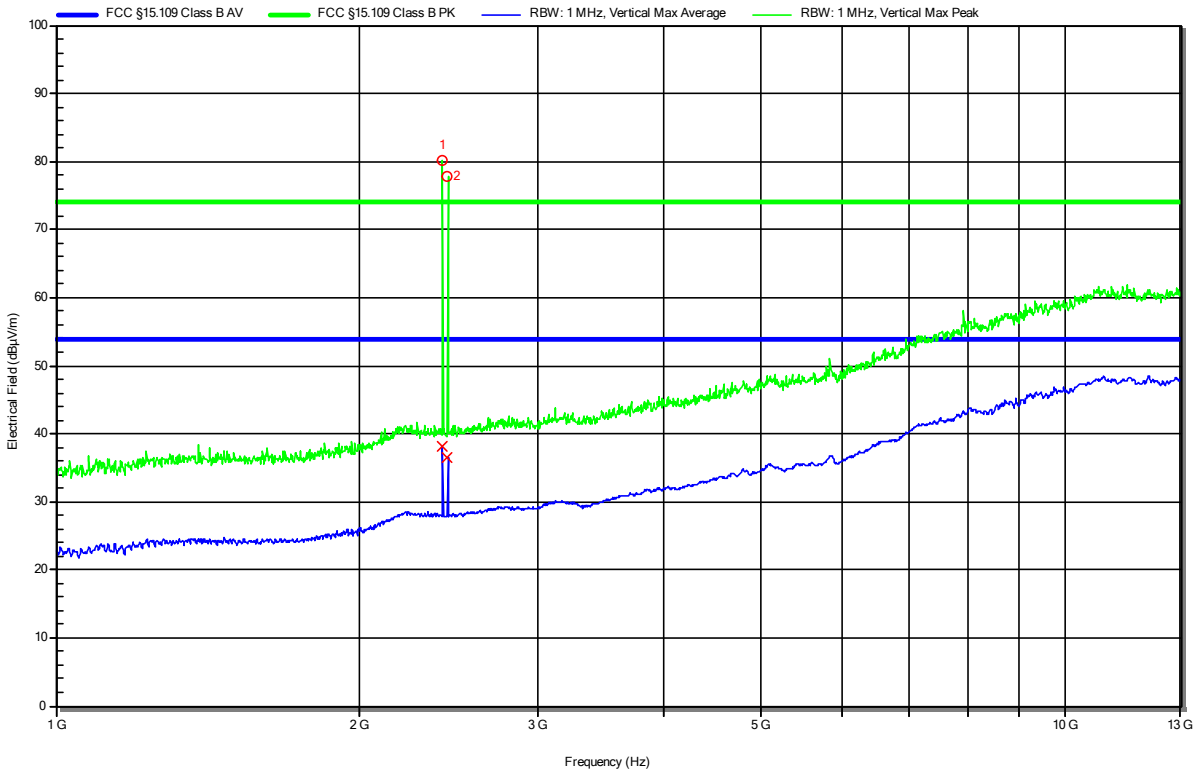
RadiMation



Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	2.416 GHz	Bluetooth Low					
2	2.444 GHz	Energy carrier					

Radiated emissions
according to FCC part 15B

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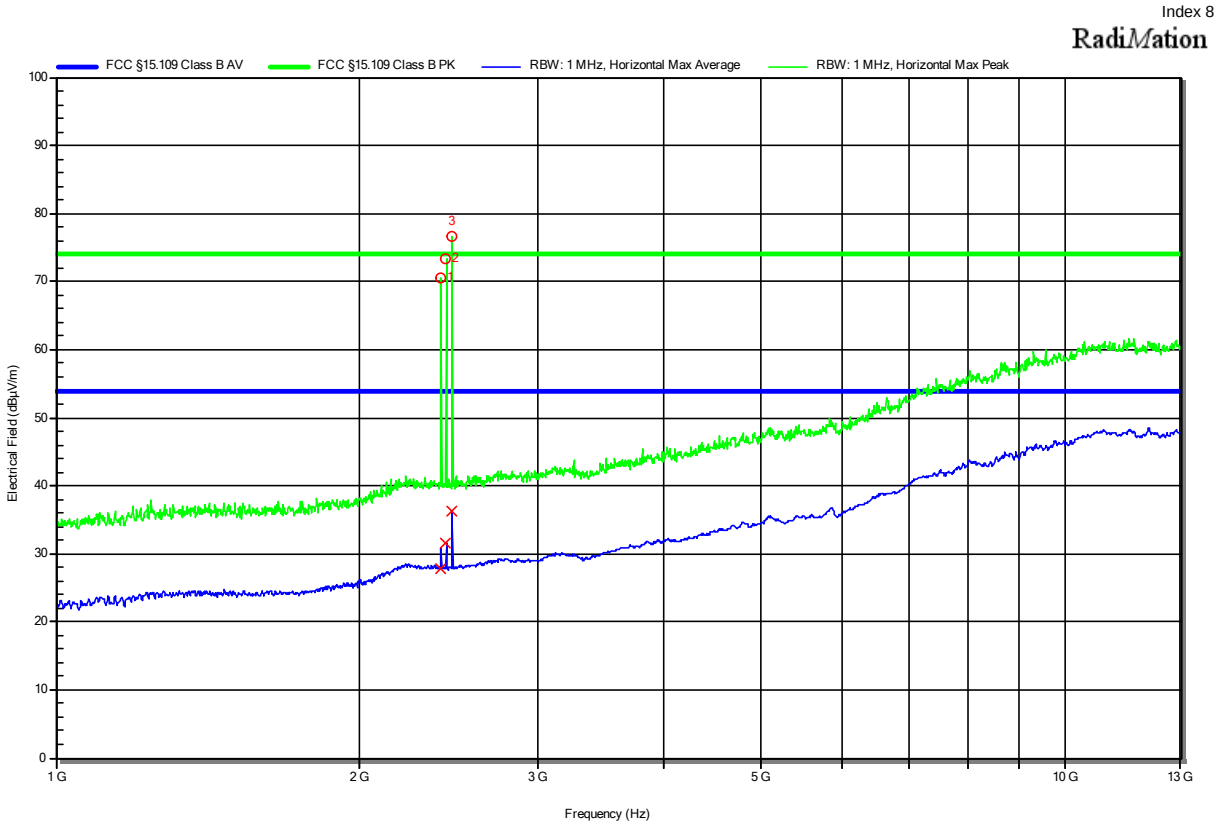


Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	2.405 GHz	Bluetooth Low Energy carrier					
2	2.433 GHz						
3	2.468 GHz						

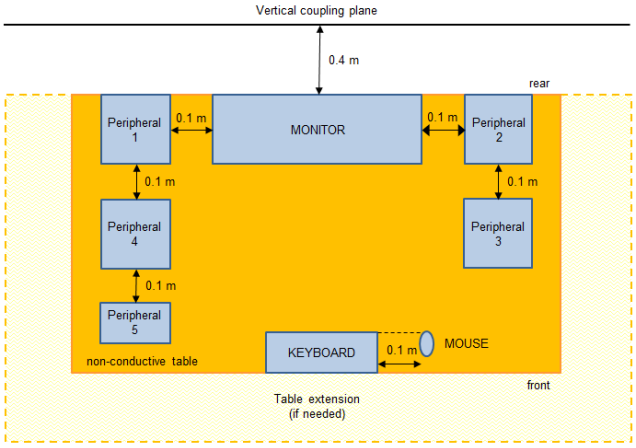
2.2 Test Conditions and Results - Conducted emissions acc. to ANSI C63.4

2.2.1 Information

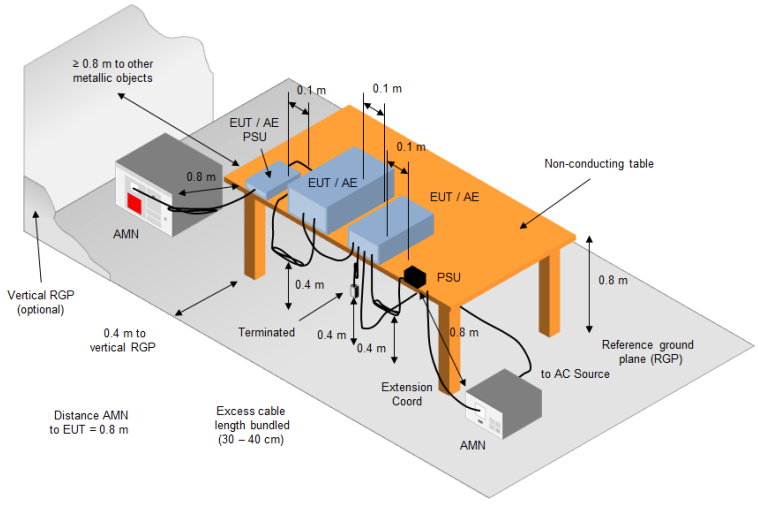
Test Information	
Reference	FCC 15.107, ICES-003, 3.2.1
Reference method	ANSI C63.4:2014+A1:2017 Section 12
Measurement range	150 kHz to 30 MHz
Equipment class	Class B
Equipment type	Table top
Temperature [°C]	21 ±3
Humidity [%]	30 ±3
Operator	Matthias Handrik
Date	2022-02-15

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	2022-07
Pulse Limiter	R&S	ESH3-Z2	EF01063	2021-07	2022-07
EMI Test Receiver	R&S	ESR 7	EF00943	2021-08	2022-08
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2021-03	2022-03

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		

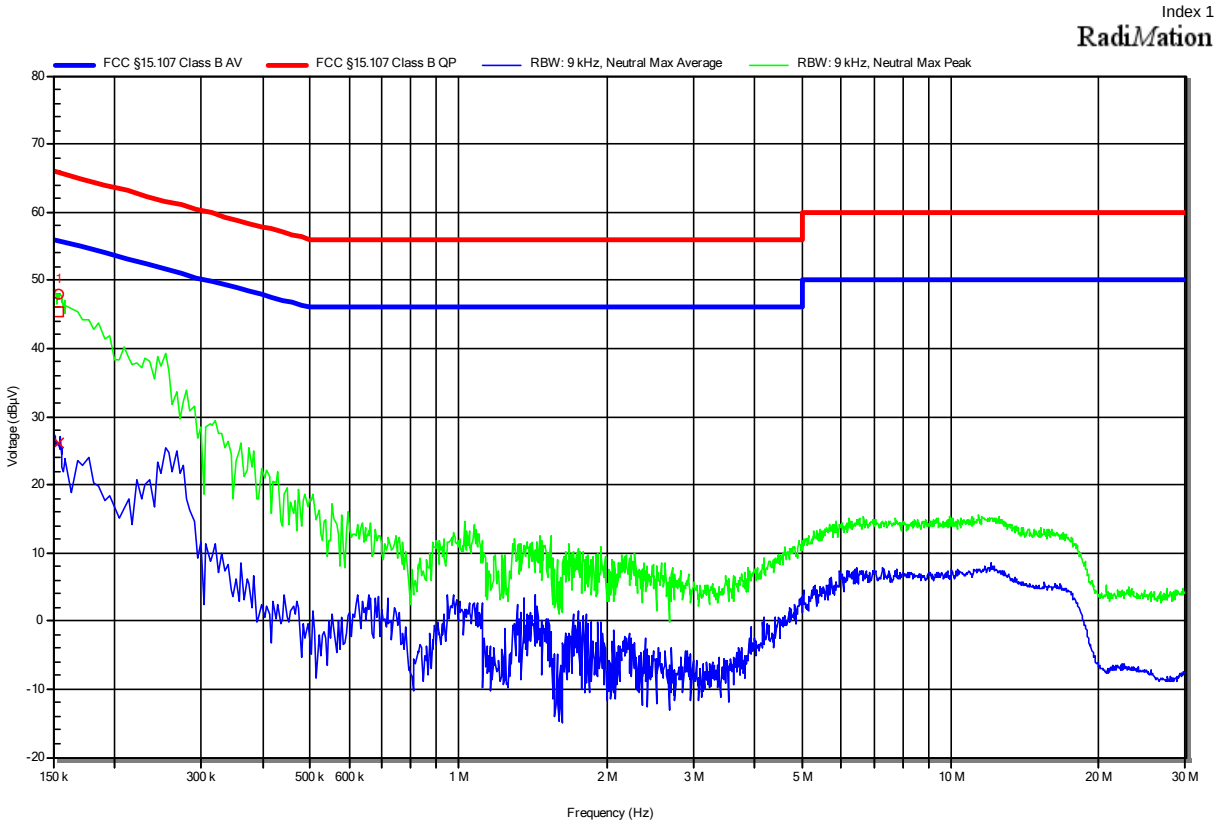
2.2.6 Results

AC power line conducted emissions					
Port	Coupling	Operational mode	EUT Configuration	Verdict	Remark
Power	AMN	2	2	PASS	-

2.2.8 Records

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

Project Number:	G0M-2111-1148
Applicant:	Corsano Health B.V.
Model Description:	Wearable Bracelet for continuous monitoring of body metrics
Model:	CardioWatch 287-2B
Test Sample ID:	37995
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Date:	2022-02-15
Operating Conditions:	ambient temperature: 21 °Celsius power input: 120V AC / 60Hz
LISN:	Schwarzbeck NSLK 8127 RC N
Operational Mode:	2
EUT Configuration:	2
Applied to Port:	AC_Mains
Note 1:	



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	153.6 kHz	45.37 dBµV	65.8 dBµV	-20.43 dB	Pass	Neutral

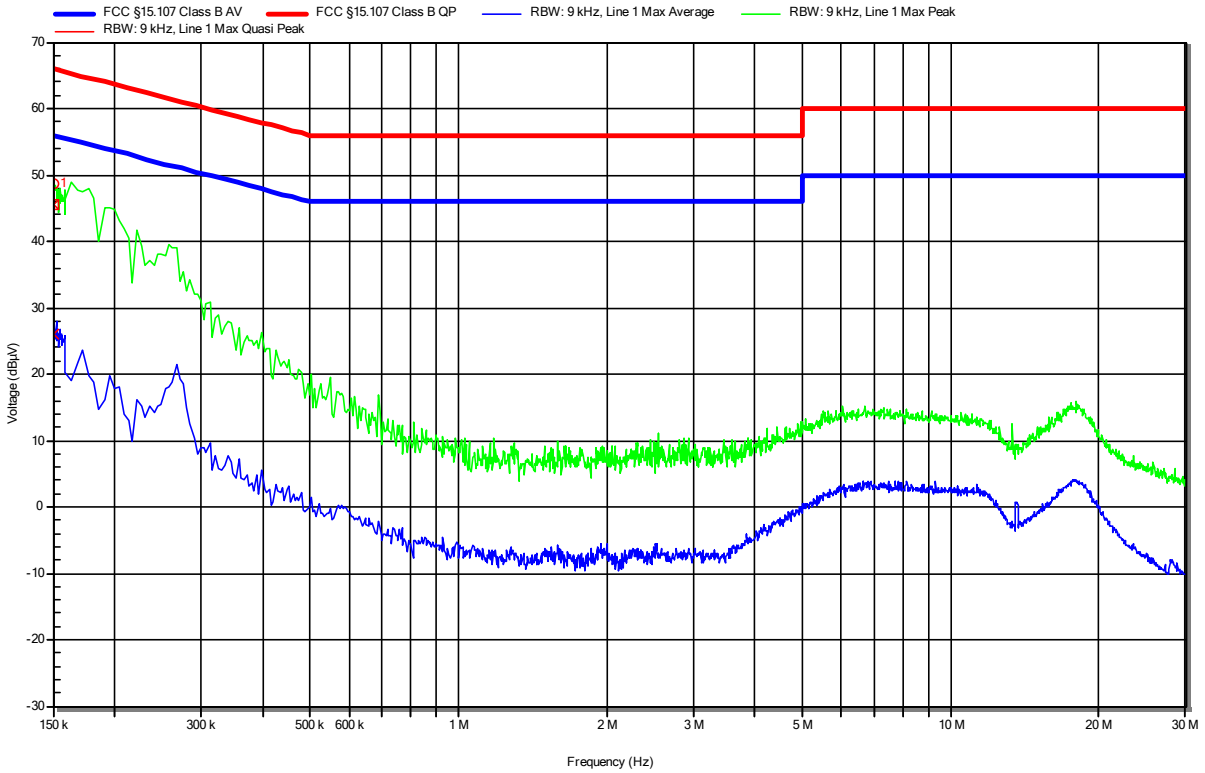
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	153.6 kHz	26.03 dBµV	55.8 dBµV	-29.78 dB	Pass	Neutral

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

Project Number:	G0M-2111-1148
Applicant:	Corsano Health B.V.
Model Description:	Wearable Bracelet for continuous monitoring of body metrics
Model:	CardioWatch 287-2B
Test Sample ID:	37995
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Date:	2022-02-15
Operating Conditions:	ambient temperature: 21 °Celsius power input: 120V AC / 60Hz
LISN:	Schwarzbeck NSLK 8127 RC L
Operational Mode:	2
EUT Configuration:	2
Applied to Port:	AC-Mains
Note 1:	

Index 2

RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	150 kHz	45.53 dBµV	66 dBµV	-20.47 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	150 kHz	26.01 dBµV	56 dBµV	-29.99 dB	Pass	Line 1

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