

RADIO REPORT FCC 47 CFR Part 15C ISED Canada RSS-247 Digital transmission systems operating within the 2400.0 MHz - 2483.5 MHz band	
Report Reference No	G0M-2111-1148-TFC247BL-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    DAkkS - Registration number : D-PL-12092-01-03 (ISED) ISED Testing Laboratory site: 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	47 CFR Part 15C RSS-247, Issue 2, 2017-02 RSS-Gen, Issue 5, Amendment 2, 2021-02
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	
Not applicable to EUT	N/A	
Test object does meet the requirement	P(PASS)	
Test object does not meet the requirement	F(FAIL)	
Testing:		
Test Lab Temperature	20 °C - 30 °C	
Test Lab Humidity	25 % - 55 %	
Date of receipt of test item	2021-12-22	
Report:		
Compiled by	Odai Qawasmeh	
Tested by (+ signature)	Odai Qawasmeh	
Supervised by (+ signature) (Responsible for Test)	Wilfried Treffke	
Approved by (+ signature) (Deputy Head of Lab)	Toralf Jahn	
Date of Issue	2022-03-09	
Total number of pages	81	
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:		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2022-03-09	Initial Release	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
DTM	Direct Test Mode
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V _{NOM}	Nominal supply voltage

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1 Equipment (Test Item) Under Test

Description	Wearable Bracelet for continuous monitoring of body metrics	
Model	CardioWatch 287-2B	
Additional Model(s)	None	
Brand Name(s)	Corsano Health	
Serial Number(s)	Prototype Prototype	Radiated Sample ID: 38099 Conducted Sample ID: 37938
Hardware Version(s)	V1.0	
Software Version(s)	V1.0	
PMN	CW287-2B	
HVIN	CardioWatch 287-2B	
FVIN	v7.3.0	
HMN	-/-	
FCC ID	2AXRW0003	
IC	27962-0003	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	2400.0 MHz - 2483.5 MHz	
Radio technology	Bluetooth LE 4.2 & 5.0	
Bluetooth Specification	LE 1M PHY	Yes
	LE 2M PHY	No
	LE Coded PHY S=8 (125 kbit)	No
	LE Coded PHY S=2 (500 kbit)	No
	Stable Modulation Index - Transmitter	No
	Stable Modulation Index - Receiver	No
Modulation	GFSK	
Number of antenna ports	1	
Antenna	Type	Integrated
	Model	2450AT07A0100
	Manufacturer	Johanson Technologies
	Gain	-1.5 dBi
Supply Voltage	V _{NOM}	3.6 VDC (EUT was supplied with 5 VDC to support the DTM.)
Operating Temperature	T _{NOM}	25 °C
Manufacturer	Corsano Health B.V. The Hague Tech Wilhelmina van Pruisenweg 35 2595 AN Den Haag NETHERLANDS	

1.3 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	USB	-	-	for starting Direct Test Mode (DTM)
CBL	Cable	Corsano Health	CS-287CH-1	Magnetic cable for charging
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.4 Test Modes

Mode	Description
GFSK	Mode = Transmit Modulation = GFSK Spreading = None Power Settings: 0 dBm Data rate: 1 Mbit/s Pattern length: 255 Bytes Pattern Type: PRBS9 Duty cycle = 60%
Receive	Mode = Receive
Comment:	

1.5 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx / Rx	0	2402
F2	Tx / Rx	19	2440
F3	Tx / Rx	39	2480

1.6 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 analyzer in dB μ V. Any external preamplifiers used are taken into account through internal analyzer 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 analyzer. 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:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

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

Limit:

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

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

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 dB μ V + 26 dB/m	= 47.5 dB μ V/m	:	47.5 dB μ V/m - 57.0 dB μ V/m	= -9.5 dB

2 Result Summary

FCC 47 CFR Part 15C, ISED RSS-247				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
ISED RSS-Gen, Issue 5 A2 (section 6.7)	Occupied Bandwidth	ANSI C63.10-2013	N/R	Informational only
FCC § 15.247(a)(2) ISED RSS-247, Issue 2 (section 5.2)	6 dB Bandwidth	ANSI C63.10-2013	PASS	
FCC § 15.247(b) ISED RSS-247, Issue 2 (section 5.4)	Maximum peak conducted power	ANSI C63.10-2013	PASS	
FCC § 15.247(e) ISED RSS-247, Issue 2 (section 5.2)	Power spectral density	ANSI C63.10-2013	PASS	
FCC § 15.207 ISED RSS-247, Issue 2 (section 3.1)	AC power line conducted emissions	ANSI C63.10-2013	PASS	
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Band edge compliance	ANSI C63.10-2013	PASS	
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Conducted spurious emissions	ANSI C63.10-2013	PASS	
FCC § 15.247(d) FCC § 15.209 ISED RSS-Gen, Issue 5 A2 (section 6.13)	Transmitter radiated spurious emissions	ANSI C63.10-2013	PASS	
ISED RSS-247, Issue 2 (section 3.1)	Receiver radiated spurious emissions	ANSI C63.4-2014	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

3 Test Conditions and Results

3.1 Test Conditions and Results - Occupied bandwidth

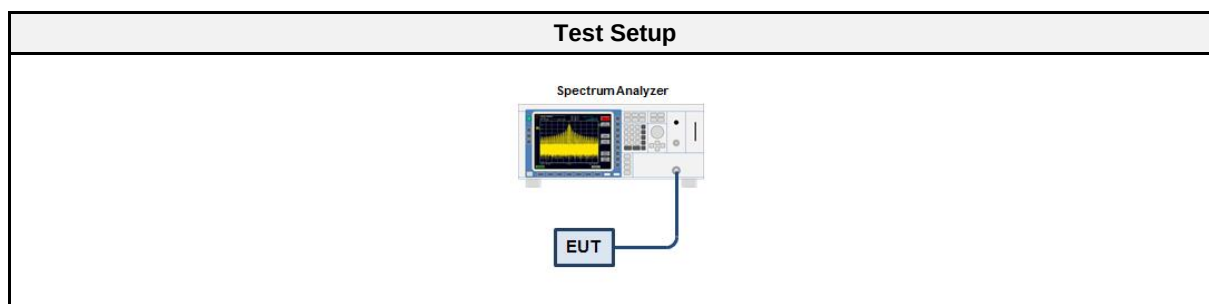
3.1.1 Information

Test Information	
Reference	ISED RSS-Gen, Issue 5 A2 (section 6.7)
Measurement Method	ANSI C63.10 6.9.3
Measurement Uncertainty	$\pm 1.26 \%$
Test Sample ID	37938
Operator	Odai Qawasmeh
Date	2022-02-10

3.1.2 Limits

Limits
None (Informational only)

3.1.3 Setup



3.1.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable (diverse)	– (diverse)	– (diverse)	EF00779	2022-02	2023-02

3.1.5 Procedure

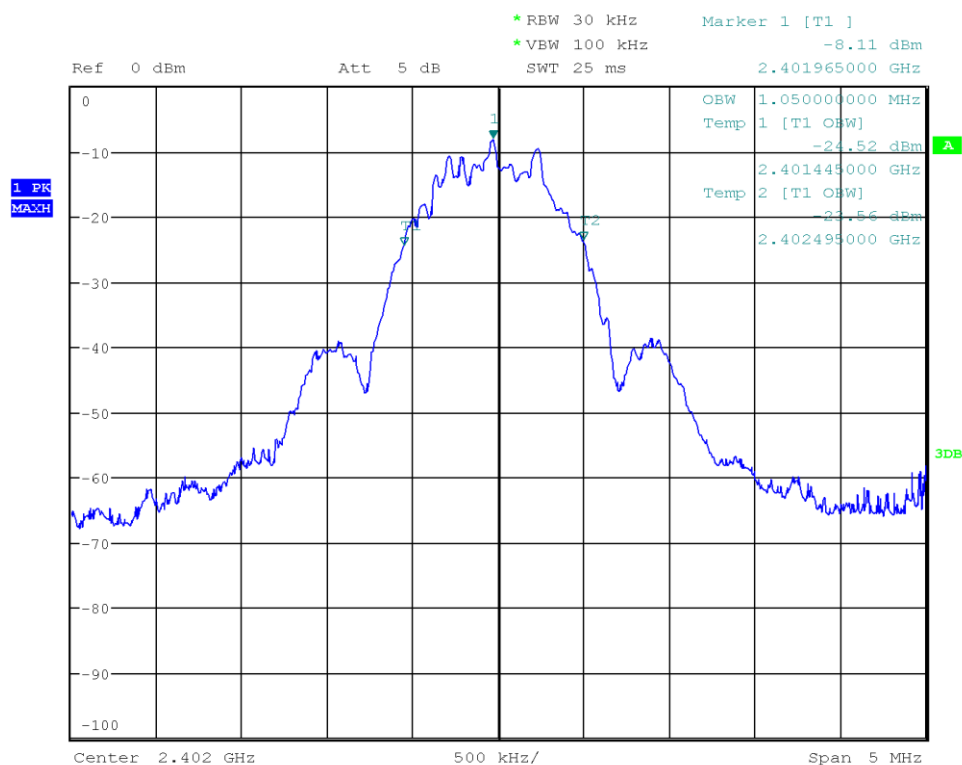
Test Procedure
1. EUT transmitter is activated in test mode under normal conditions 2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the emission spectrum 3. The resolution bandwidth is set to the range of 1 % to 5 % of the occupied bandwidth 4. The occupied bandwidth is measured with the build-in analyzer function

3.1.6 Results

Test Results		
Mode	Frequency [MHz]	Bandwidth [MHz]
GFSK	2402	1.050
GFSK	2440	1.050
GFSK	2480	1.050

Occupied Bandwidth

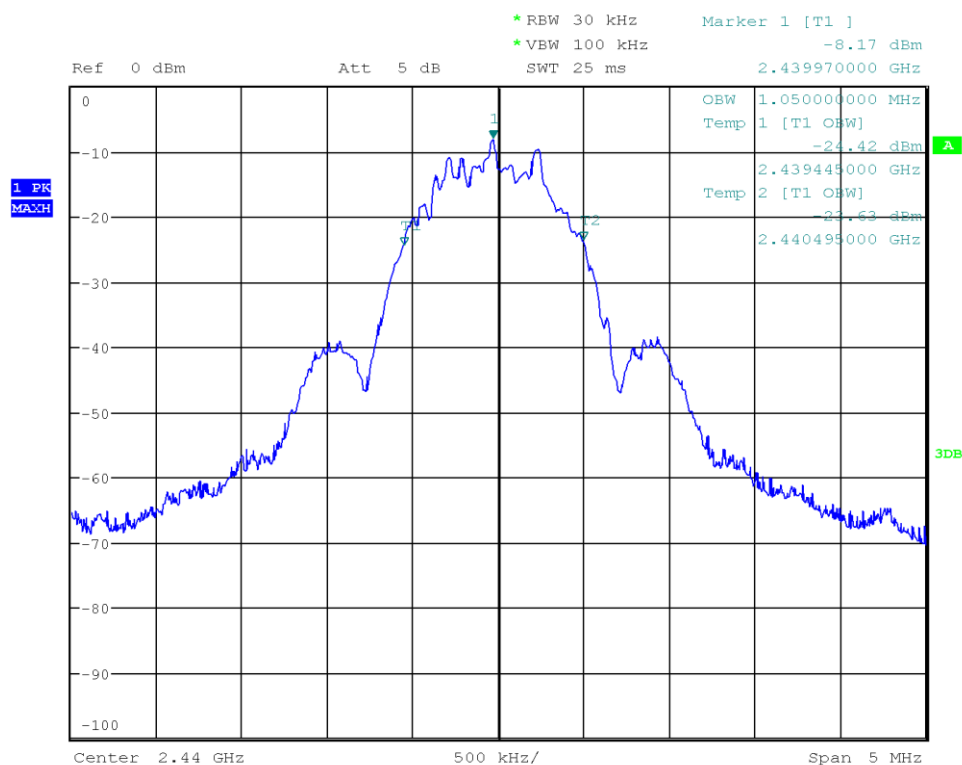
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Occupied Bandwidth [MHz]: 1.050



Date: 10.FEB.2022 14:26:08

Occupied Bandwidth

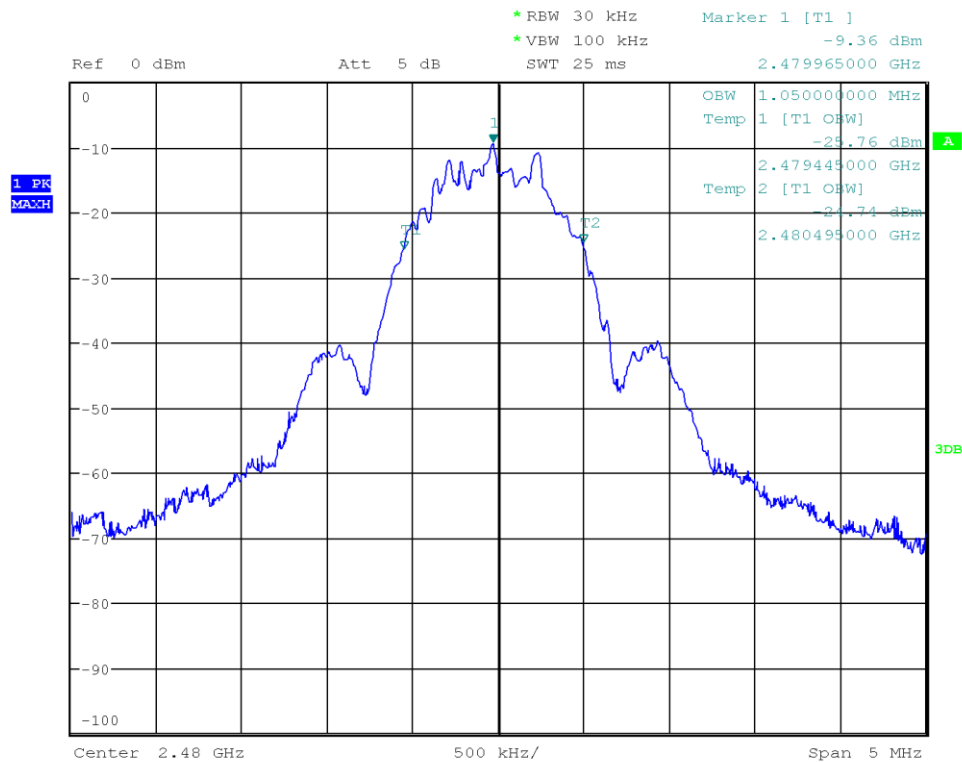
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Occupied Bandwidth [MHz]: 1.050



Date: 10.FEB.2022 14:27:36

Occupied Bandwidth

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Occupied Bandwidth [MHz]: 1.050



Date: 10.FEB.2022 14:28:46

3.2 Test Conditions and Results - 6 dB bandwidth

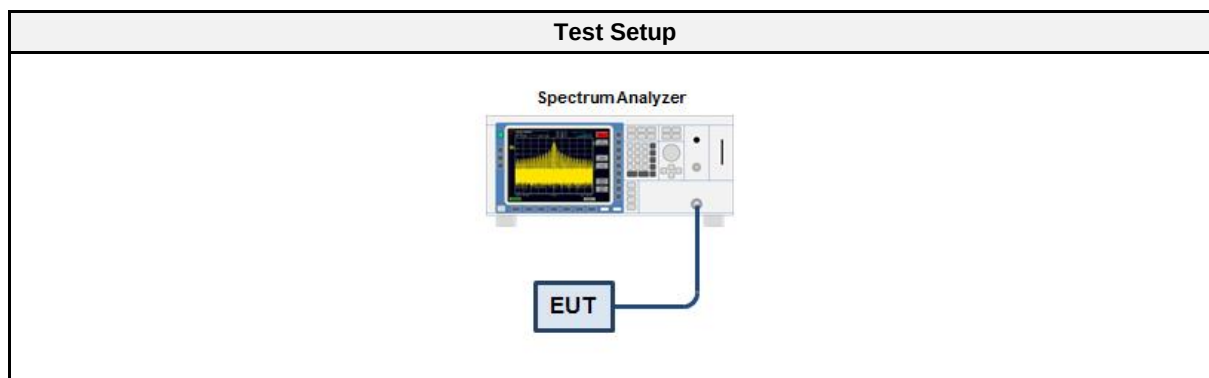
3.2.1 Information

Test Information	
Reference	FCC § 15.247(a)(2); ISED RSS-247, Issue 2 (section 5.2)
Measurement Method	ANSI C63.10 11.8
Measurement Uncertainty	± 1.26 %
Operator	Odai Qawasmeh
Date	2022-02-10

3.2.2 Limits

Limits
≥ 500kHz

3.2.3 Setup



3.2.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable (diverse)	— (diverse)	— (diverse)	EF00779	2022-02	2023-02

3.2.5 Procedure

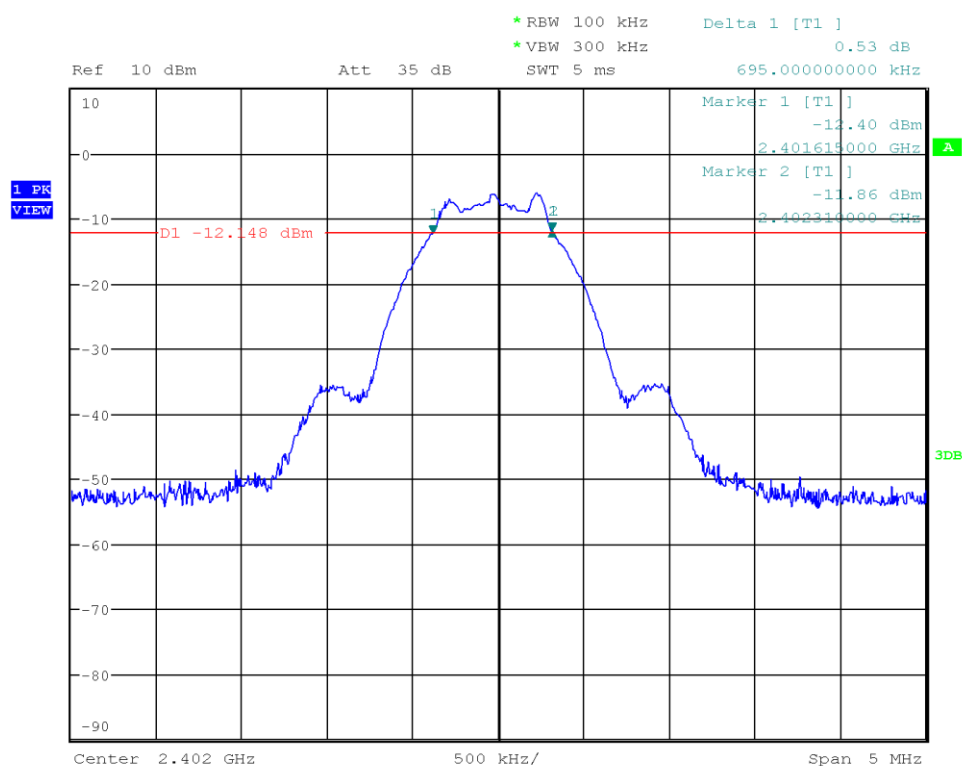
Test Procedure
1. EUT set to test mode 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold and RBW is set to 100 kHz 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak 6. Marker on envelope of spectrum is set to level of -6 dB to the right of the peak 7. 6 dB Bandwidth is determined by marker frequency separation

3.2.6 Results

Test Results				
Mode	Frequency [MHz]	Bandwidth [kHz]	Limit [kHz]	Verdict
GFSK	2402	695	500	PASS
GFSK	2440	700	500	PASS
GFSK	2480	695	500	PASS

DTS (6 dB) Bandwidth

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Lower Frequency [MHz]: 2401.615
 Upper Frequency [MHz]: 2402.310
 6 dB Bandwidth [kHz]: 695



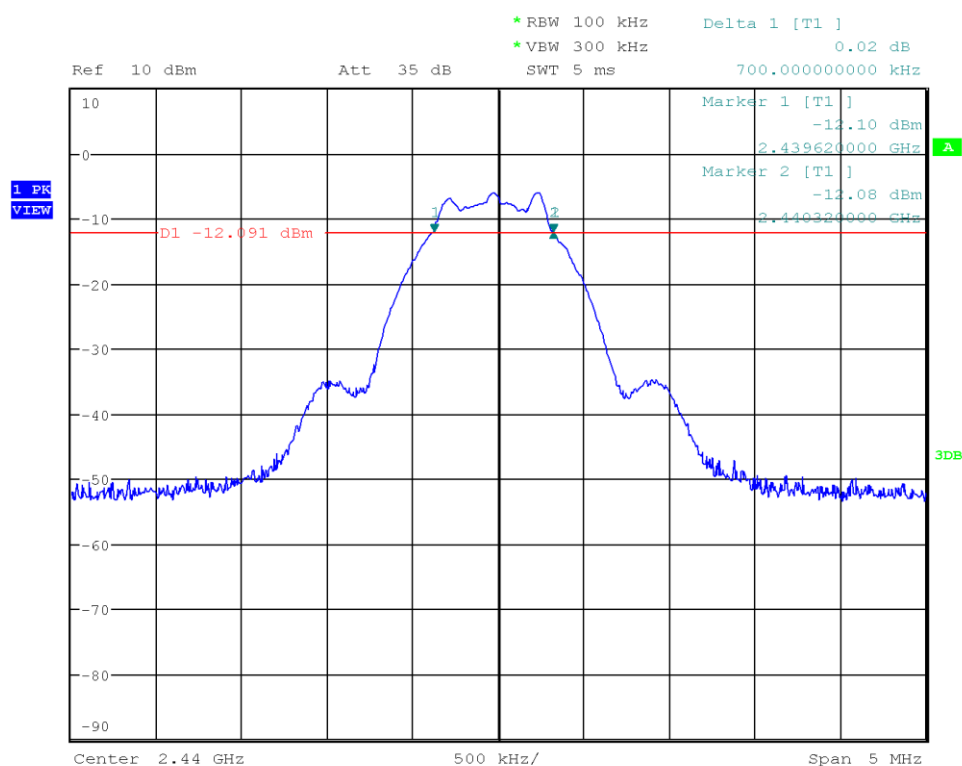
Date: 10.FEB.2022 14:33:57

Test Report No.: G0M-2111-1148-TFC247BL-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

DTS (6 dB) Bandwidth

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Lower Frequency [MHz]: 2439.620
 Upper Frequency [MHz]: 2440.320
 6 dB Bandwidth [kHz]: 700



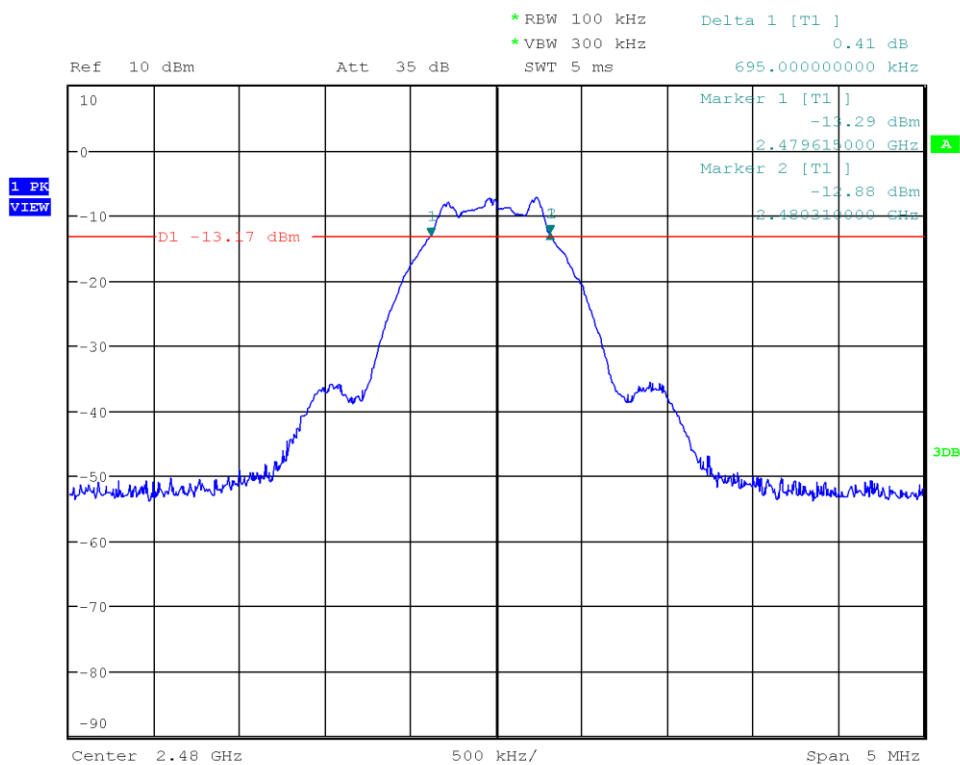
Date: 10.FEB.2022 14:34:52

Test Report No.: G0M-2111-1148-TFC247BL-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

DTS (6 dB) Bandwidth

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Lower Frequency [MHz]: 2479.615
 Upper Frequency [MHz]: 2480.310
 6 dB Bandwidth [kHz]: 695



Date: 10.FEB.2022 14:35:40

Test Report No.: G0M-2111-1148-TFC247BL-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.3 Test Conditions and Results - Maximum peak conducted output power

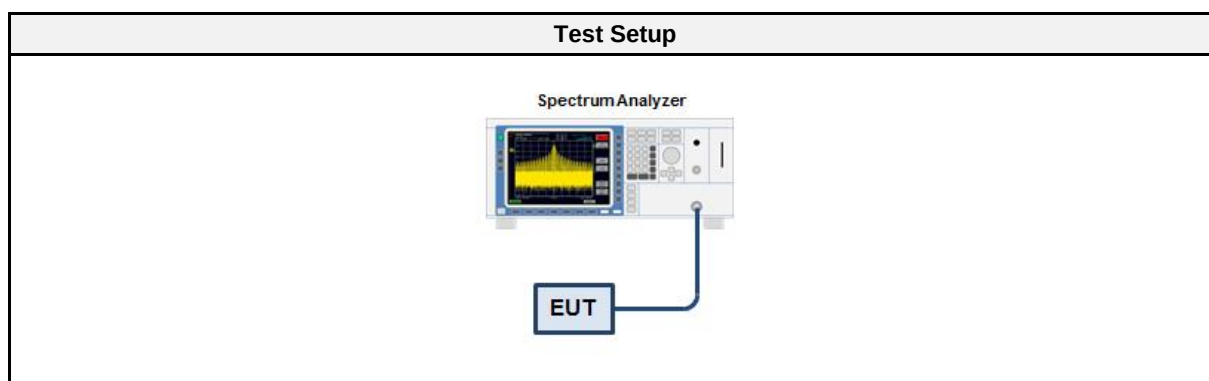
3.3.1 Information

Test Information	
Reference	FCC § 15.247(b); ISED RSS-247, Issue 2 (section 5.4)
Measurement Method	ANSI C63.10 11.9.1
Measurement Uncertainty	± 2.86 dB
Operator	Odai Qawasmeh
Date	2022-02-10

3.3.2 Limits

Limits
1 W (30 dBm)
The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.3 Setup



3.3.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable (diverse)	— (diverse)	— (diverse)	EF00779	2022-02	2023-02

3.3.5 Procedure

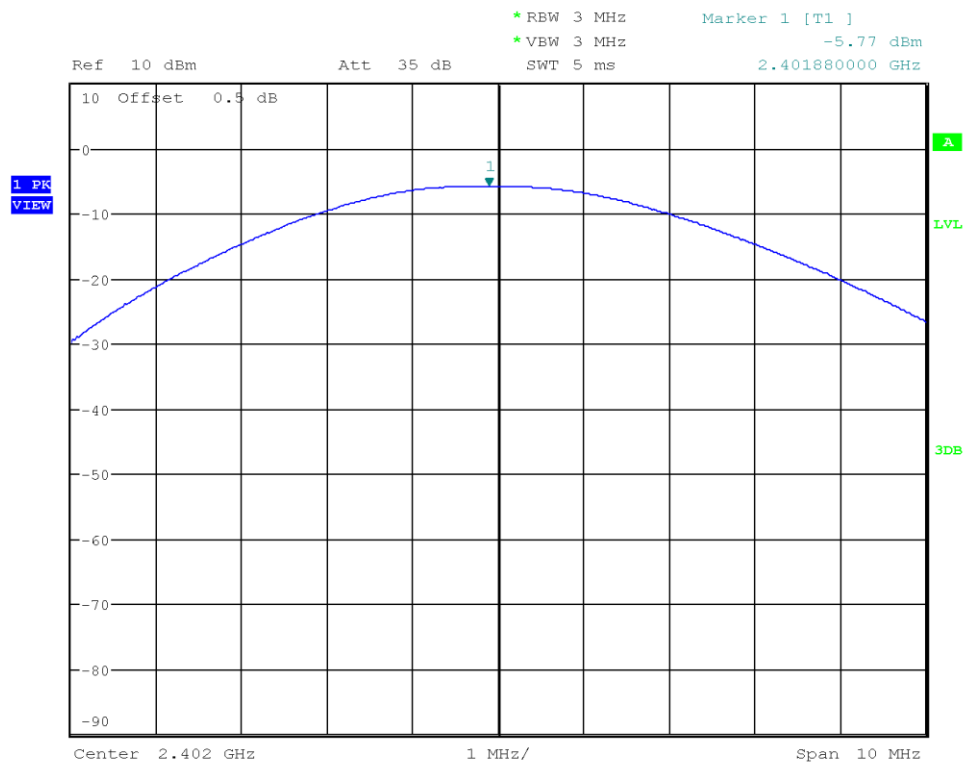
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Analyzer resolution bandwidth is set $\geq$ DTS bandwidth 3. Detector set to peak and max hold 4. Sweep time is set to auto 5. After the trace has stabilized a marker is set to peak of envelope

3.3.6 Results

Test Results				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	-5.769	0.00026	1.0	PASS
2440	-5.691	0.00027	1.0	PASS
2480	-6.698	0.00021	1.0	PASS

Peak Conducted Output Power

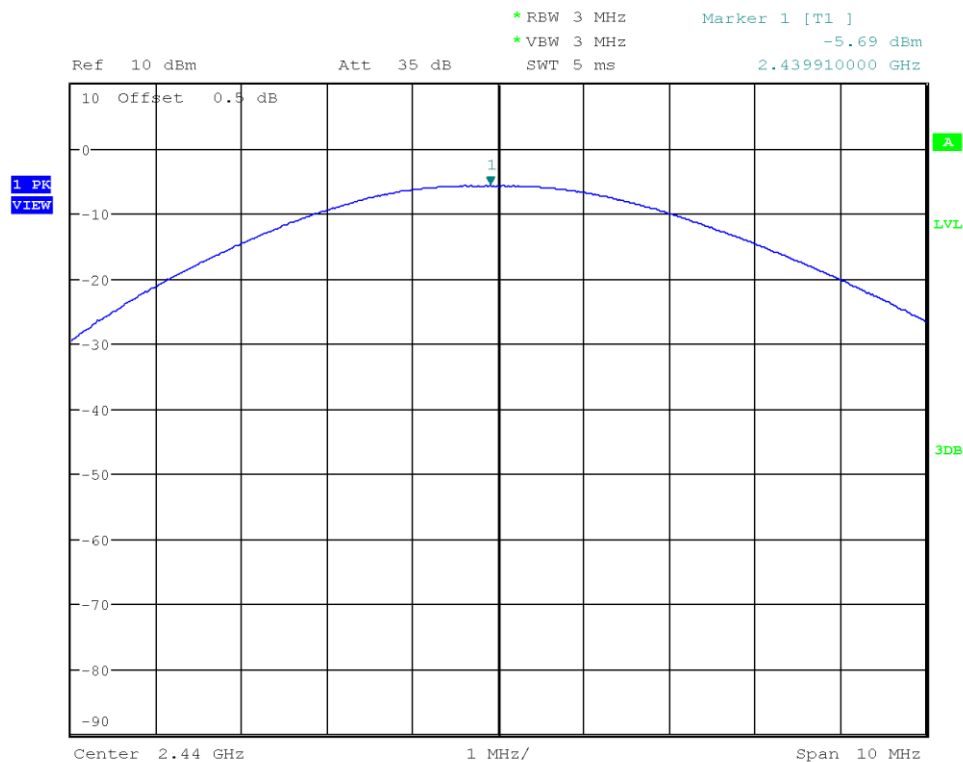
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Peak Power [dBm]: -5.769
 Peak Power [W]: 0.0003



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Peak Conducted Output Power

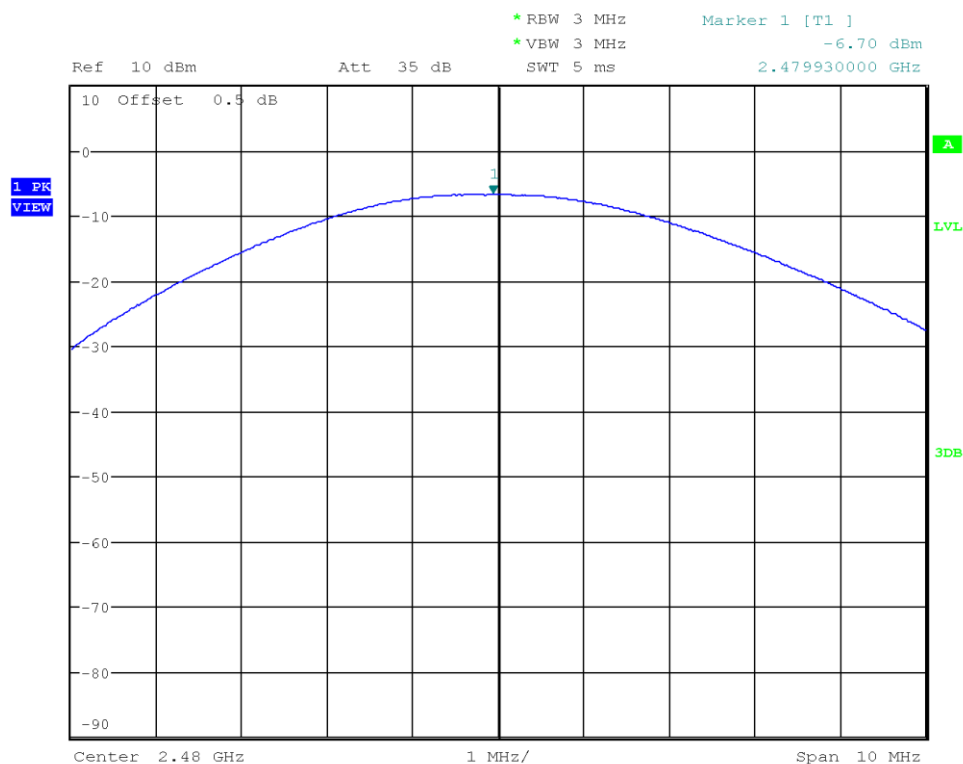
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Peak Power [dBm]: -5.691
 Peak Power [W]: 0.0003



Date: 10.FEB.2022 15:00:05

Peak Conducted Output Power

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Peak Power [dBm]: -6.698
 Peak Power [W]: 0.0002



Date: 10.FEB.2022 15:01:54

3.4 Test Conditions and Results - Power spectral density

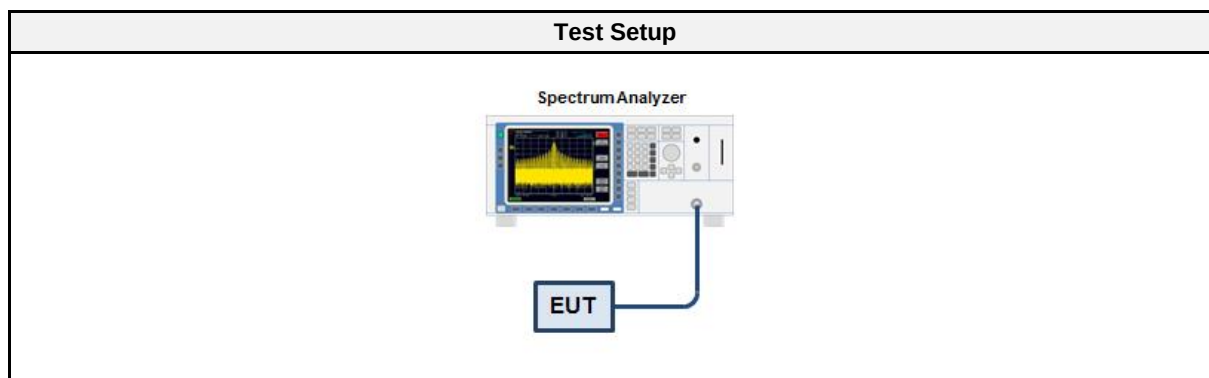
3.4.1 Information

Test Information	
Reference	FCC § 15.247(e); ISSED RSS-247, Issue 2 (section 5.2)
Measurement Method	ANSI C63.10 11.10.2, 14.3.2
Measurement Uncertainty	± 2.86 dB
Operator	Odai Qawasmeh
Date	2022-02-10

3.4.2 Limits

Limits
8 dBm / 3 kHz

3.4.3 Setup



3.4.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable (diverse)	— (diverse)	— (diverse)	EF00779	2022-02	2023-02

3.4.5 Procedure

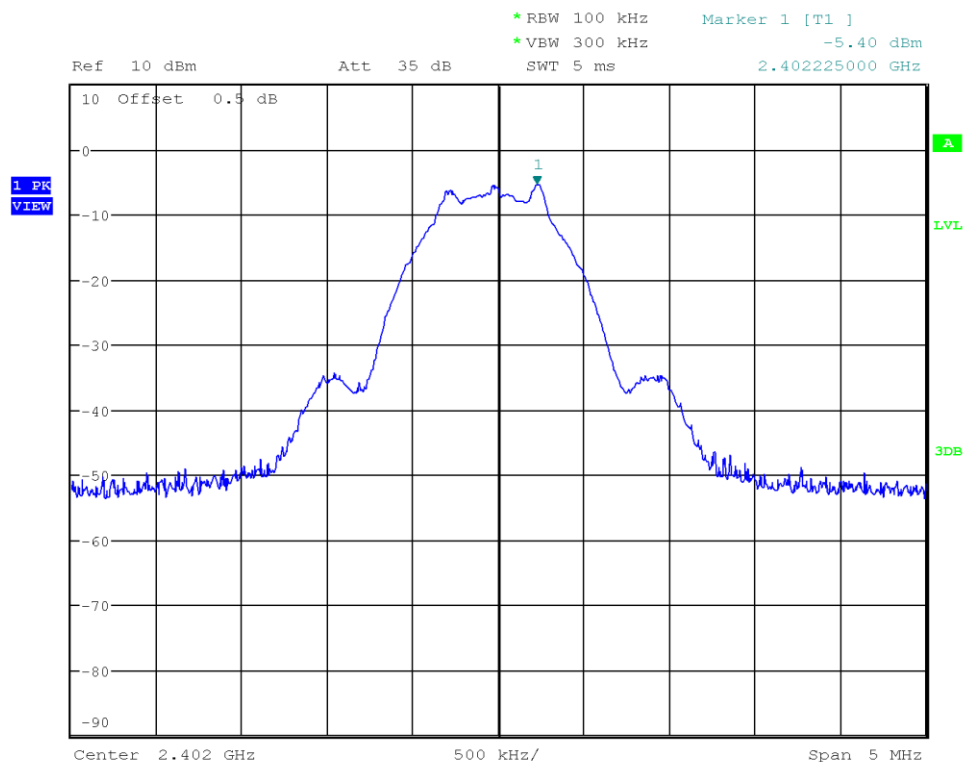
Test Procedure
1. EUT set to test mode 2. The analyzer is set to DTS channel center frequency with a span of 1.5 times the DTS bandwidth 3. The RBW is set to 100 kHz with VBW $\geq$ RBW and the detector is set to peak with max hold 4. After the trace has stabilized a marker is set to the envelope maximum 5. If the power spectral density is above the limit the RBW is reduced (not lower than 3 kHz) and the measurement is repeated 6. If the EUT has more than one transmit chain the procedure is repeated for each transmit chain

3.4.6 Results

Test Results			
Channel [MHz]	PSD [dBm/RBW]	Limit [dBm/3kHz]	Verdict
2402	-5.398	8.0	PASS
2440	-5.836	8.0	PASS
2480	-7.349	8.0	PASS
RBW = 100 kHz			

Peak Power Spectral Density

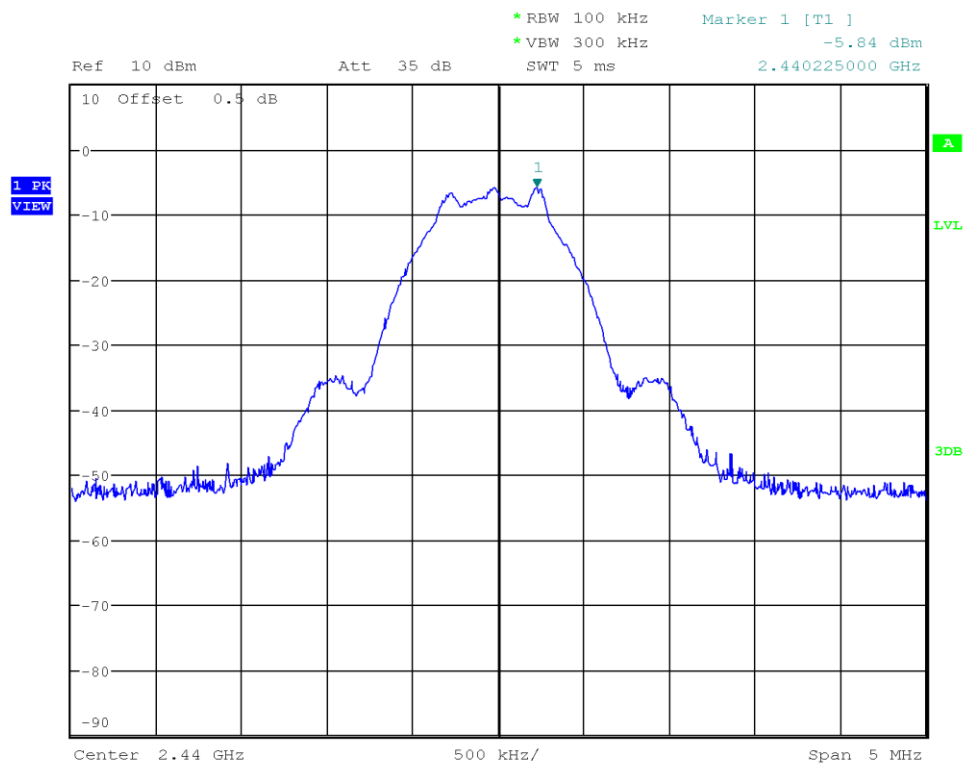
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Peak Frequency [MHz]: 2402.225
 Spectral Density [dBm/RBW]: -5.398
 Resolution Bandwidth [kHz]: 100 kHz



Date: 10.FEB.2022 15:06:42

Peak Power Spectral Density

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Peak Frequency [MHz]: 2440.225
 Spectral Density [dBm/RBW]: -5.836
 Resolution Bandwidth [kHz]: 100 kHz



Date: 10.FEB.2022 15:07:48

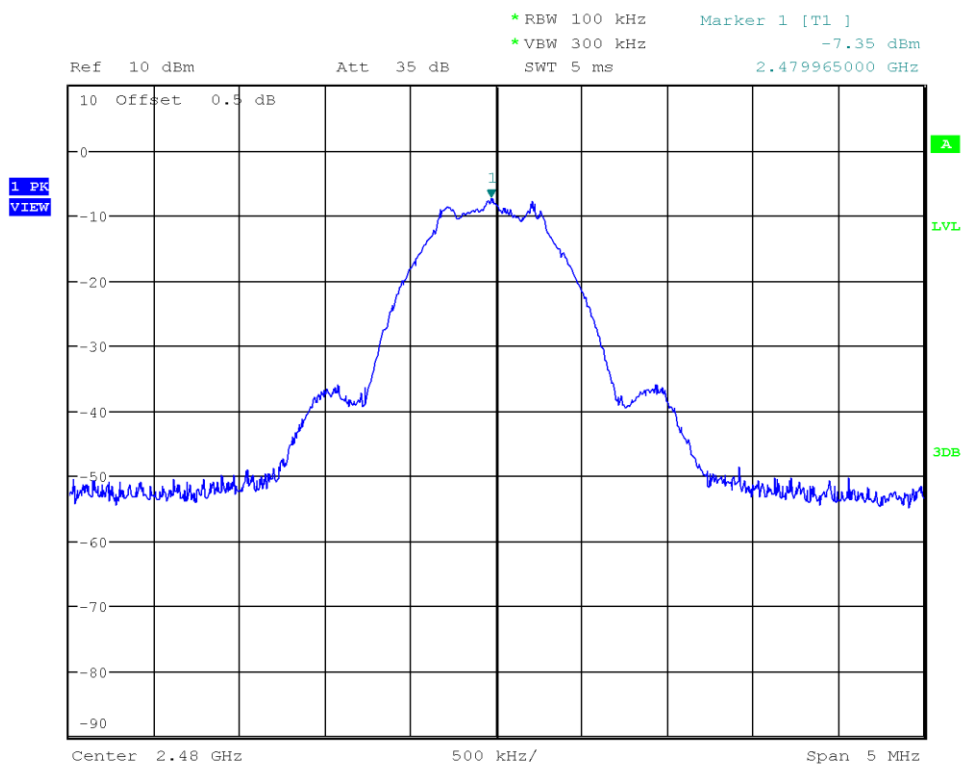
Test Report No.: G0M-2111-1148-TFC247BL-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Page 33 of 81

Peak Power Spectral Density

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Peak Frequency [MHz]: 2479.965
 Spectral Density [dBm/RBW]: -7.349
 Resolution Bandwidth [kHz]: 100 kHz



Date: 10.FEB.2022 15:08:32

Test Report No.: G0M-2111-1148-TFC247BL-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.5 Test Conditions and Results - AC powerline conducted emissions

3.5.1 Information

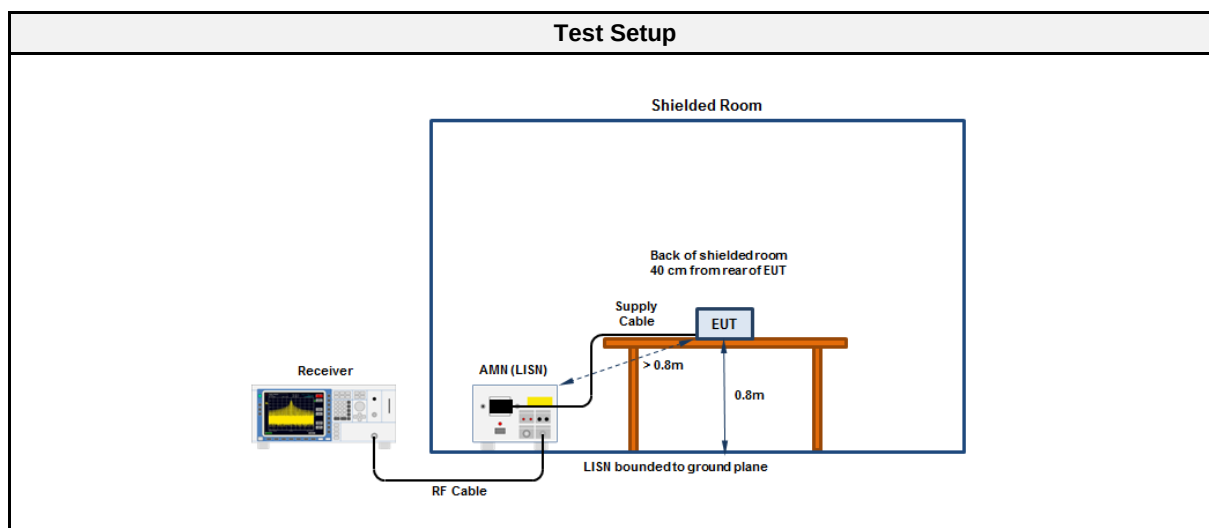
Test Information	
Reference	FCC § 15.207; ISED RSS-247, Issue 2 (section 3.1)
Measurement Method	ANSI C63.10 6.2
Measurement Uncertainty	± 3.82 dB
Operator	Odai Qawasmeh
Date	2022-02-10

3.5.2 Limits

Limits		
Frequency [MHz]	Quasi-Peak [dBμV]	Average [dBμV]
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5	56	46
5 - 30	60	50

* Limit decreases linearly with the logarithm of the frequency

3.5.3 Setup



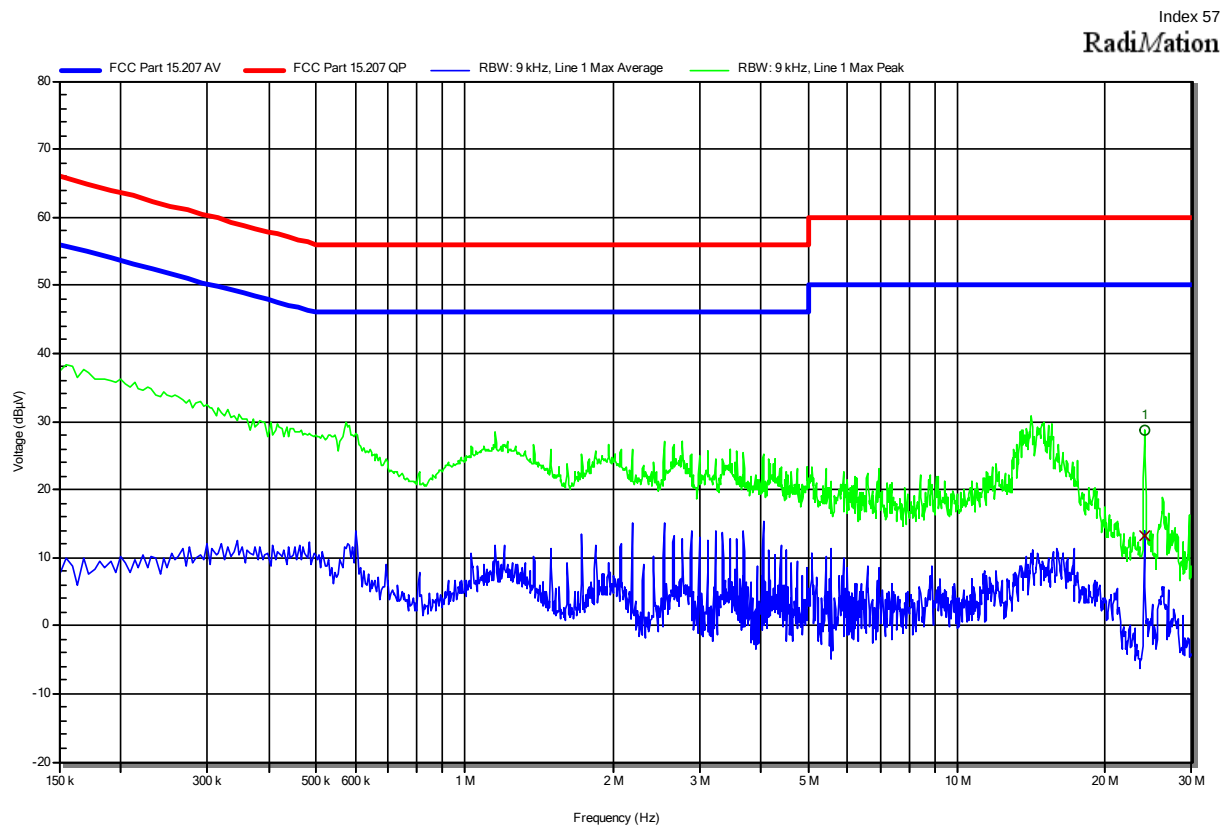
3.5.4 Equipment

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

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESR7	EF00943	2021-08	2022-08
Pulse Limiter	R&S	ESH3-Z2	EF01222	2021-07	2022-07
LISN	Schwarzbeck	NSLK 8127 RC	EF01592	2021-07	2022-07

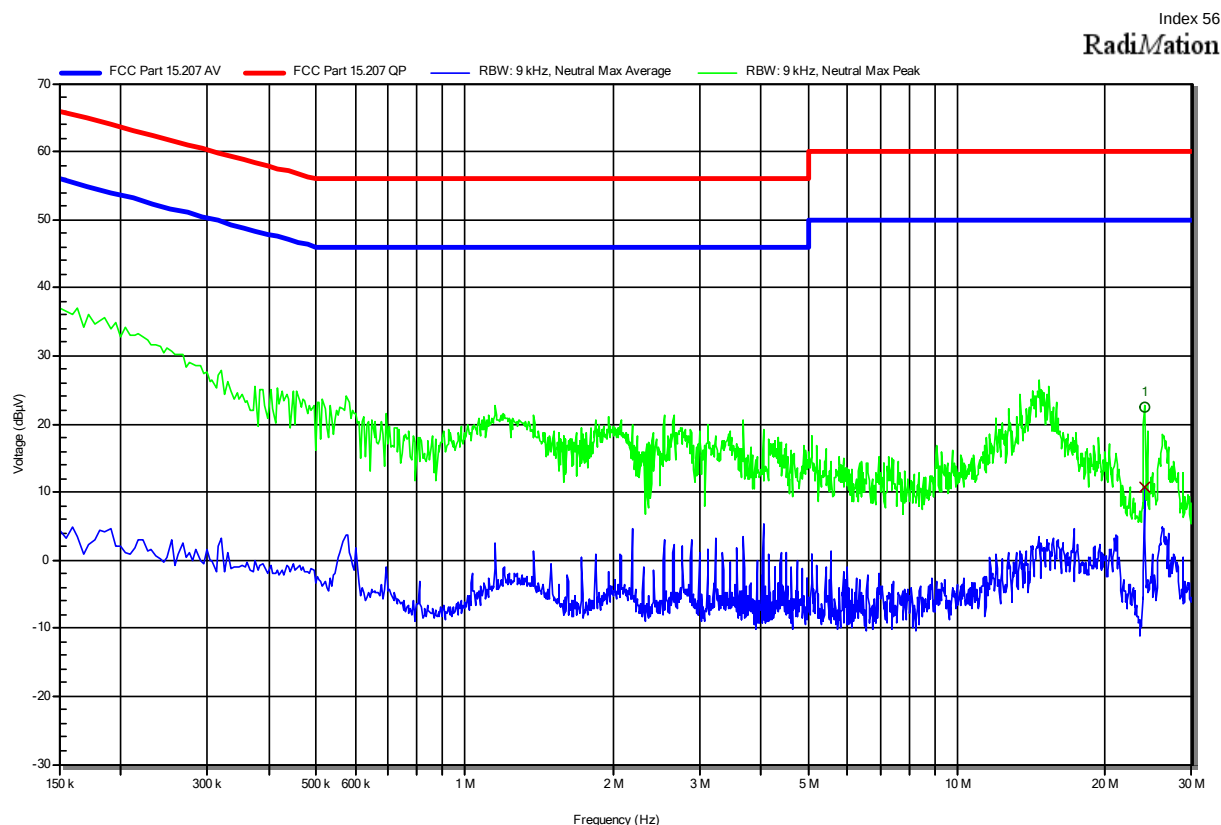
Conducted emissions at the mains power port according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-02-10
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 VDC Battery (5 VDC voltage source)
 LISN: Schwarzbeck NSLK 8127 RC L
 Operational Mode & EUT Configuration: BTLE, 2402 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Applied to Port: AC/DC Adapter to EUT (120V/60Hz to 5VDC)
 Note 1:



Conducted emissions at the mains power port according to FCC 15.247

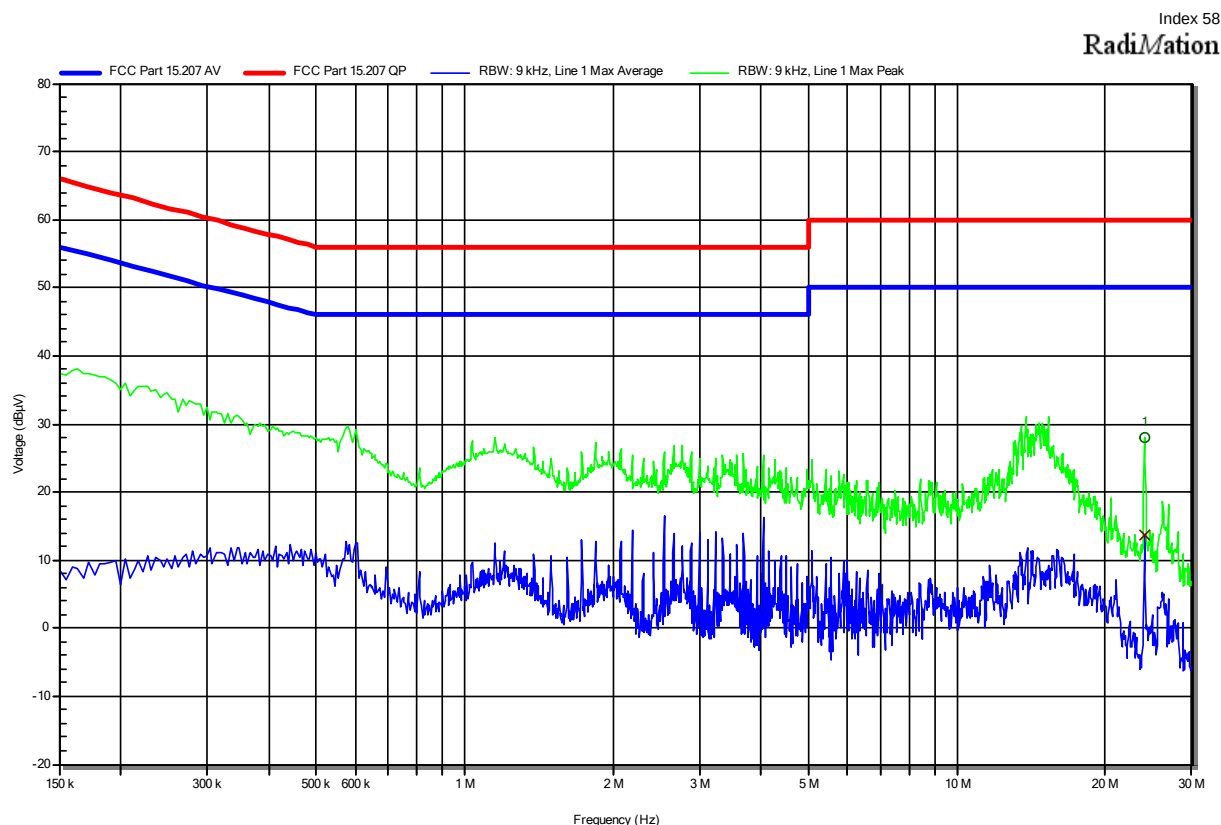
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-02-10
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 VDC Battery (5 VDC voltage source)
 LISN: Schwarzbeck NSLK 8127 RC N
 Operational Mode & EUT Configuration: BTLE, 2402 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Applied to Port: AC/DC Adapter to EUT (120V/60Hz to 5VDC)
 Note 1:



Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	24.005 MHz	10.81 dBµV	50 dBµV	-39.19 dB	Pass	Neutral

**Conducted emissions at the mains power port
according to FCC 15.247**

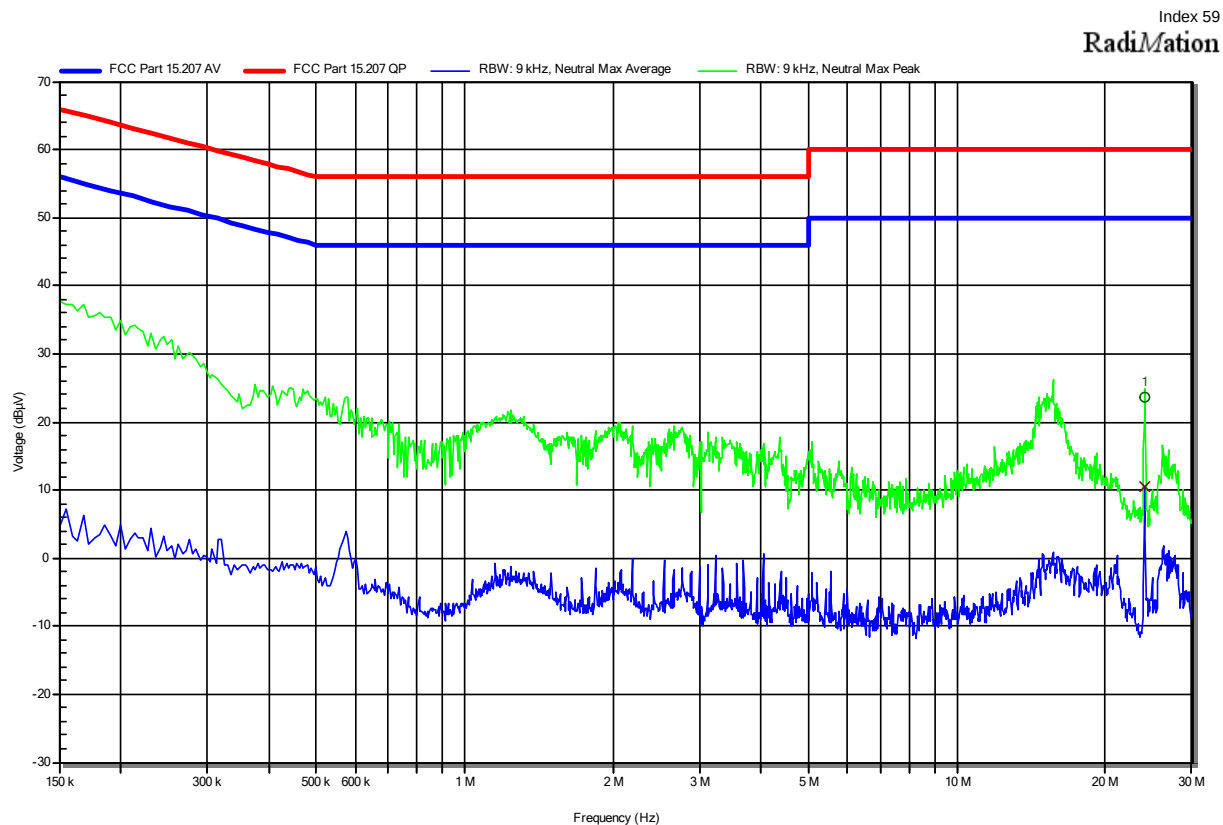
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-02-10
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 VDC Battery (5 VDC voltage source)
 LISN: Schwarzbeck NSLK 8127 RC L
 Operational Mode & EUT Configuration: BTLE, 2440 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Applied to Port: AC/DC Adapter to EUT (120V/60Hz to 5VDC)
 Note 1:



Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	24.005 MHz	13.62 dBµV	50 dBµV	-36.38 dB	Pass	Line 1

Conducted emissions at the mains power port according to FCC 15.247

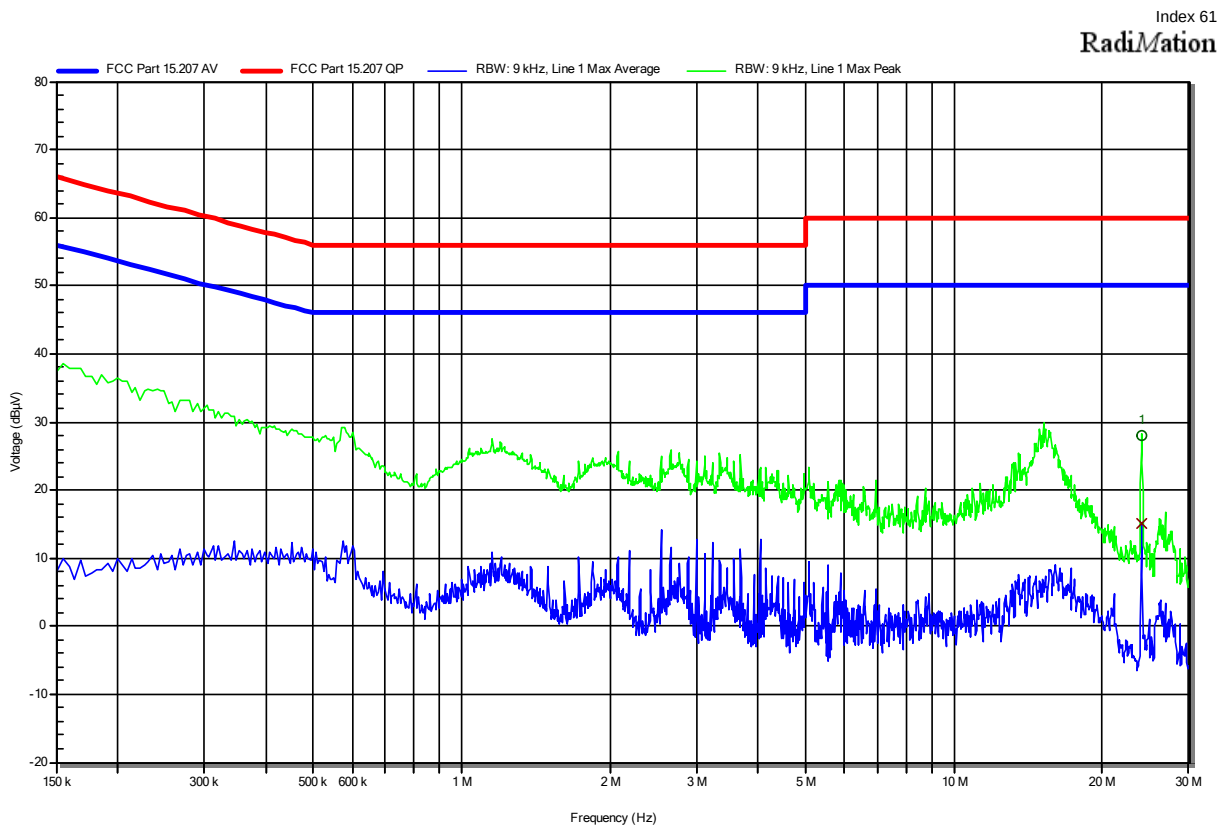
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-02-10
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 VDC Battery (5 VDC voltage source)
 LISN: Schwarzbeck NSLK 8127 RC N
 Operational Mode & EUT Configuration: BTLE, 2440 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Applied to Port: AC/DC Adapter to EUT (120V/60Hz to 5VDC)
 Note 1:



Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	24 MHz	10.4 dBµV	50 dBµV	-39.6 dB	Pass	Neutral

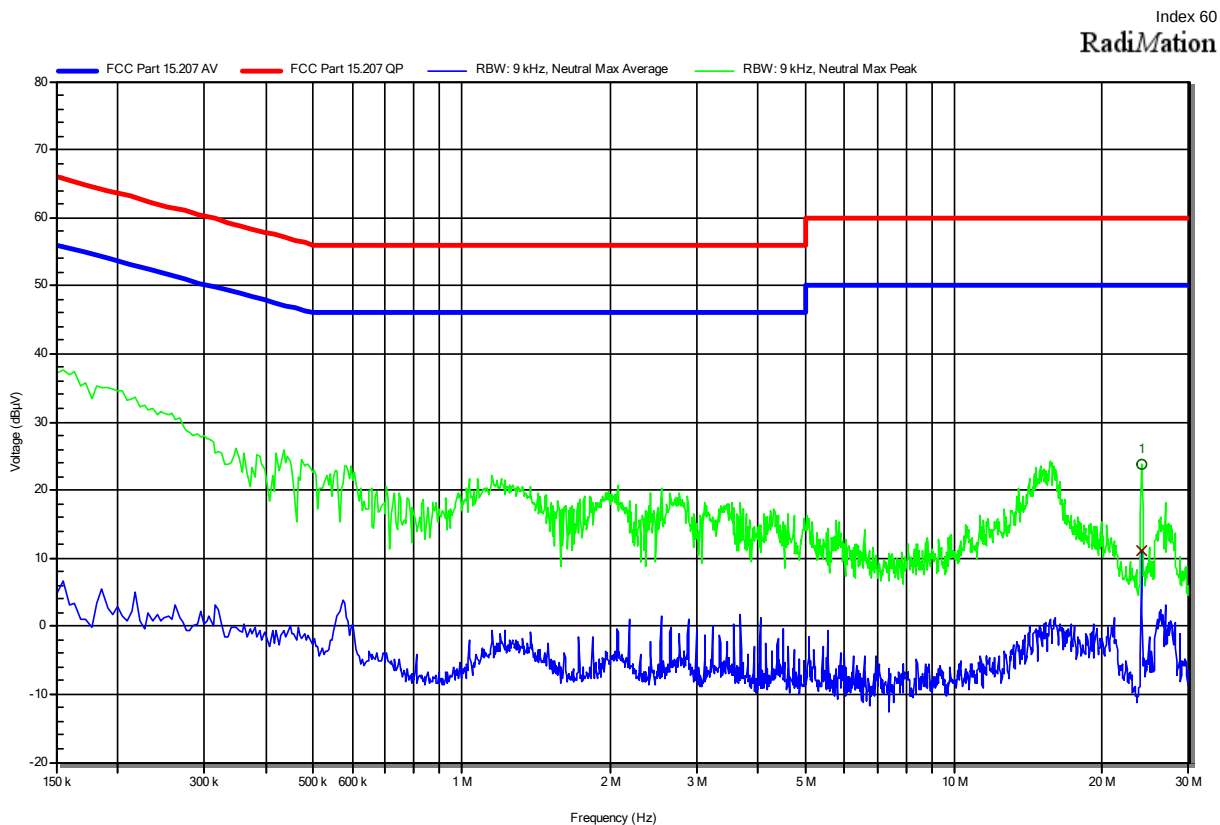
Conducted emissions at the mains power port according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-02-10
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 VDC Battery (5 VDC voltage source)
 LISN: Schwarzbeck NSLK 8127 RC L
 Operational Mode & EUT Configuration: BTLE, 2480 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Applied to Port: AC/DC Adapter to EUT (120V/60Hz to 5VDC)
 Note 1:



Conducted emissions at the mains power port according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-02-10
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 VDC Battery (5 VDC voltage source)
 LISN: Schwarzbeck NSLK 8127 RC N
 Operational Mode & EUT Configuration: BTLE, 2480 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Applied to Port: AC/DC Adapter to EUT (120V/60Hz to 5VDC)
 Note 1:



Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	24 MHz	11.2 dBµV	50 dBµV	-38.8 dB	Pass	Neutral

3.6 Test Conditions and Results - Band-edge compliance

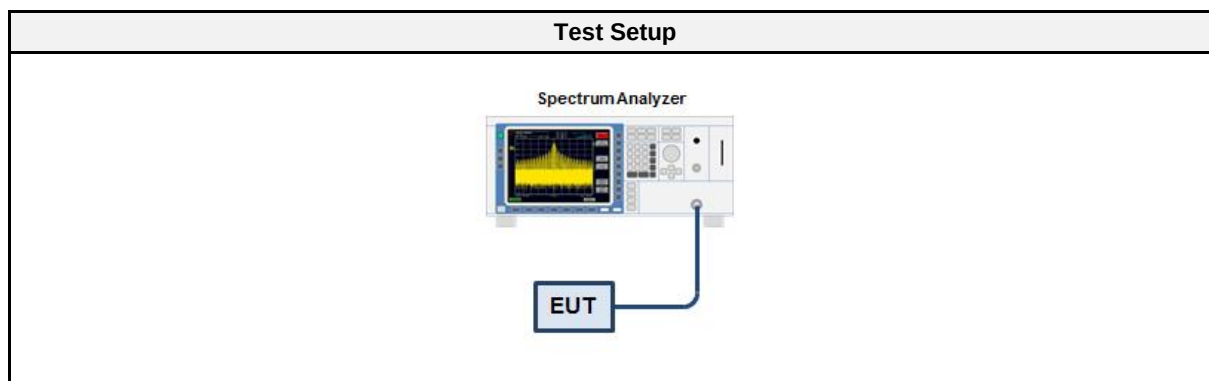
3.6.1 Information

Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 2 (section 5.5)
Measurement Uncertainty	± 3.64 dB
Measurement Method	ANSI C63.10 11.13
Operator	Odai Qawasmeh
Date	2022-02-10

3.6.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.6.3 Setup



3.6.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable (diverse)	– (diverse)	– (diverse)	EF00779	2022-02	2023-02

3.6.5 Procedure

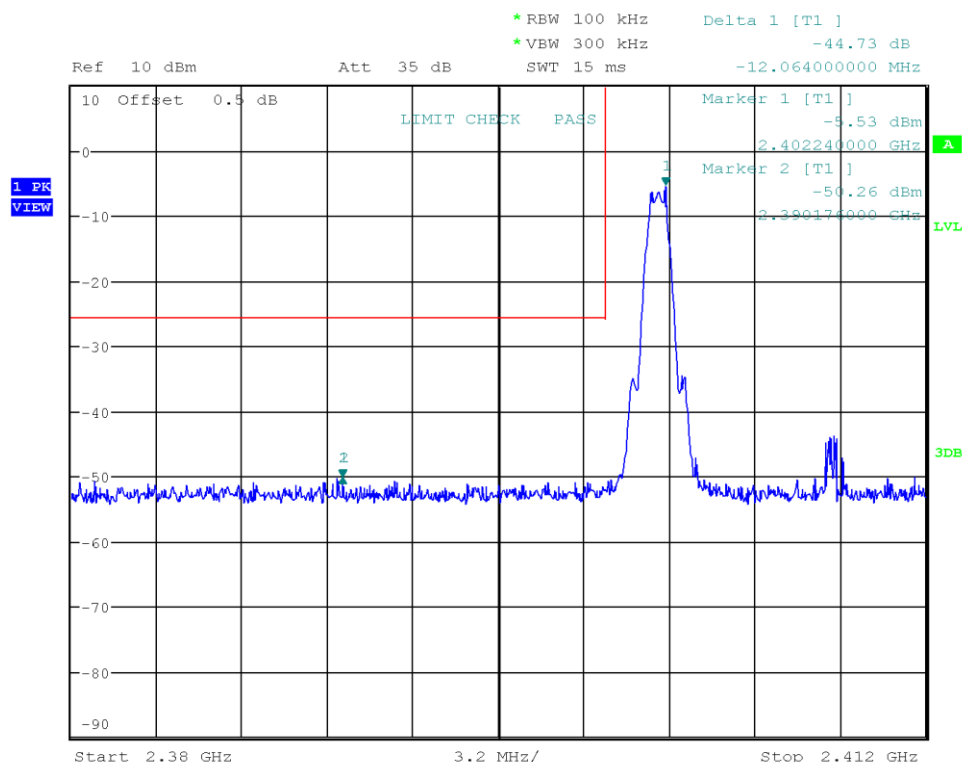
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference

3.6.6 Results

Test Results				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
GFSK	2402	-44.73	-20	PASS
GFSK	2480	-41.68	-20	PASS

Emissions in nonrestricted frequency bands at the Band-edge

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Band-edge: Lower
 In-band Frequency [MHz]: 2402.24
 Max. in-band Level [dBm/100 kHz]: -5.528
 Out-of-band Frequency [MHz]: 2390.176
 Max. out-of-band Level [dBm/100 kHz]: -50.255
 Attenuation [dB]: -44.73



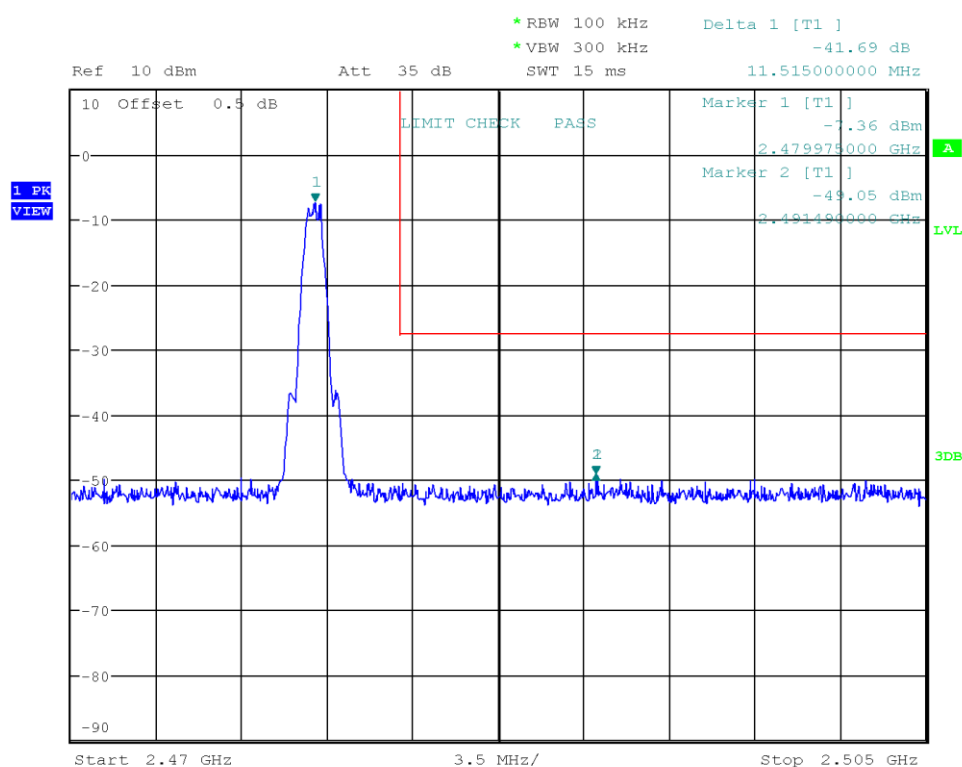
Date: 10.FEB.2022 15:12:33

Test Report No.: G0M-2111-1148-TFC247BL-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Emissions in nonrestricted frequency bands at the Band-edge

Project Number: G0M-2111-1148
Applicant: Corsano Health B.V.
Model Description: Wearable Bracelet for continuous monitoring of body metrics
Model: CardioWatch 287-2
Test Sample ID: 37938
Reference Standards: FCC 15.247, RSS-247
Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operating Conditions: Tnom/Vnom
Operator: Odai Qawasmeh
Test Site: Eurofins Product Service GmbH
Test Date: 2022-02-10
Band-edge: Upper
In-band Frequency [MHz]: 2479.975
Max. in-band Level [dBm/100 kHz]: -7.362
Out-of-band Frequency [MHz]: 2491.49
Max. out-of-band Level [dBm/100 kHz]: -49.047
Attenuation [dB]: -41.68



Date: 10.FEB.2022 15:13:30

Test Report No.: G0M-2111-1148-TFC247BL-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.7 Test Conditions and Results - Conducted spurious emissions

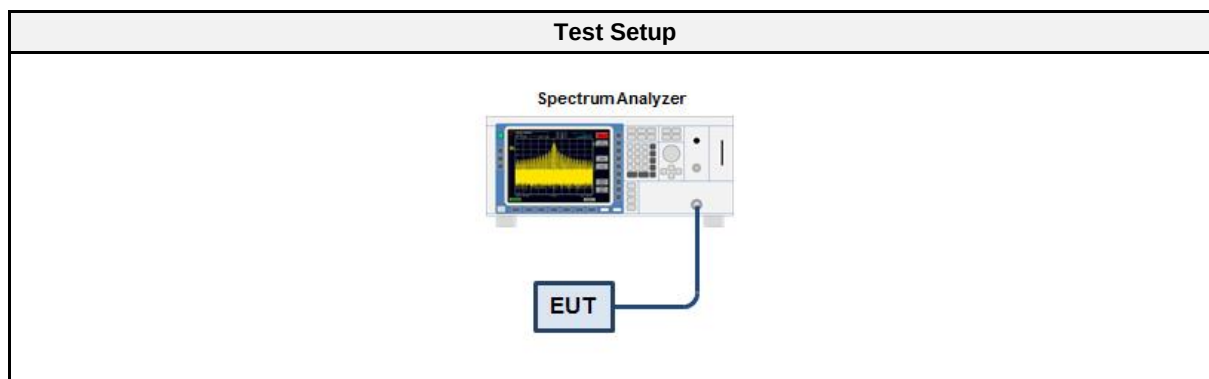
3.7.1 Information

Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 2 (section 5.5)
Measurement Uncertainty	± 4.25 dB
Measurement Method	ANSI C63.10 11.11
Operator	Odai Qawasmeh
Date	2022-02-10

3.7.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.7.3 Setup



3.7.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable (diverse)	– (diverse)	– (diverse)	EF00779	2022-02	2023-02

3.7.5 Procedure

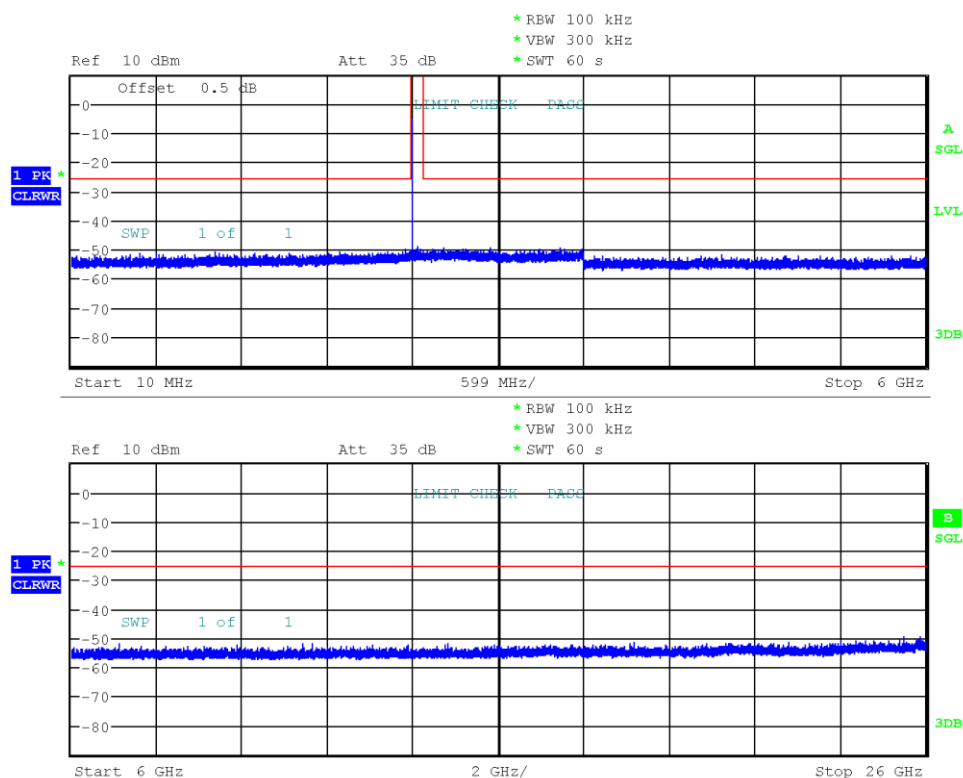
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels outside frequency band

3.7.6 Results

Test Results		
Mode	Channel [MHz]	Verdict
GFSK	2402	PASS
GFSK	2440	PASS
GFSK	2480	PASS

Conducted Spurious Emissions

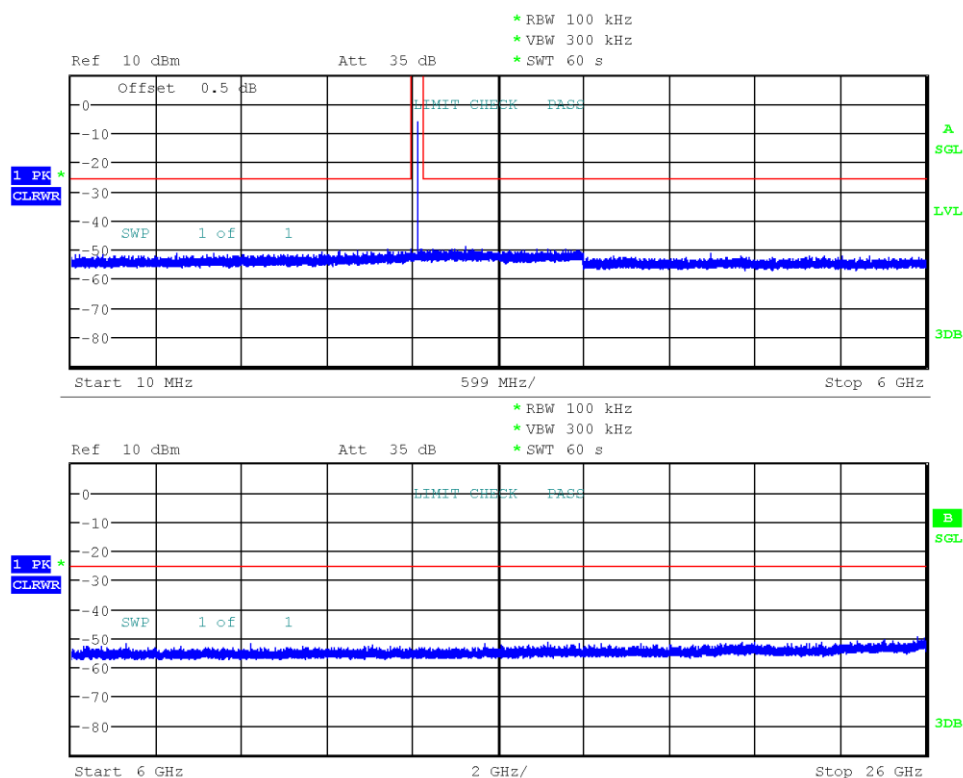
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Max. in-band Frequency [MHz]: 2402.2
 Max. in-band Level [dBm/100 kHz]: -5.4
 Out-of-band Limit [dBm/100 kHz]: -25.4



Date: 10.FEB.2022 17:01:09

Conducted Spurious Emissions

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Max. in-band Frequency [MHz]: 2440.2
 Max. in-band Level [dBm/100 kHz]: -5.5
 Out-of-band Limit [dBm/100 kHz]: -25.5



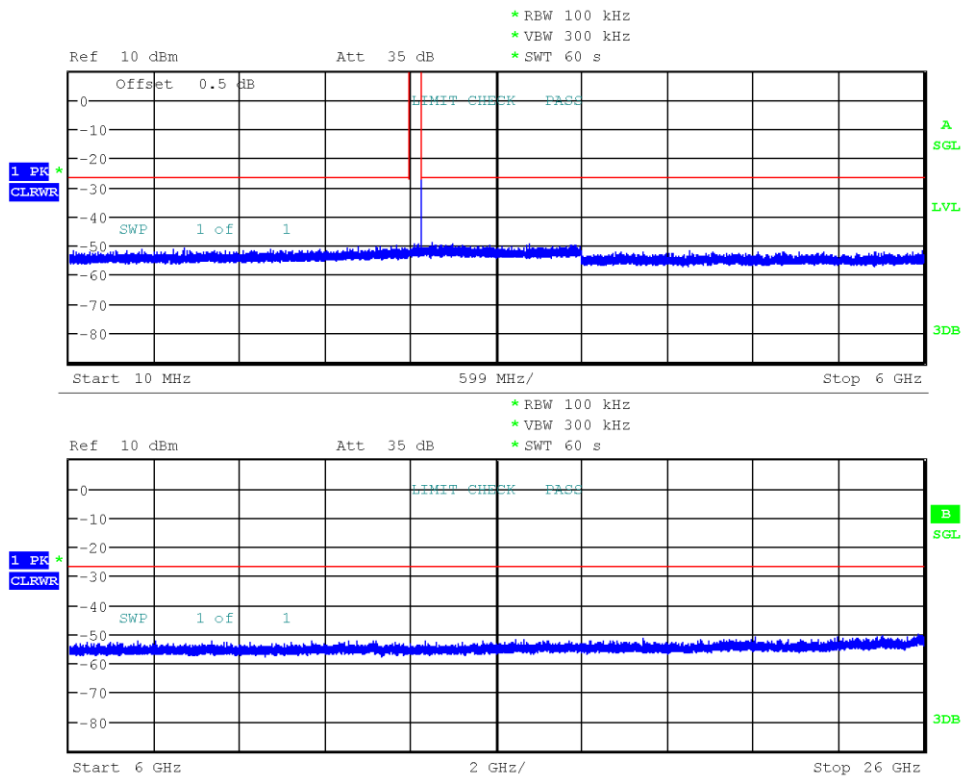
Date: 10.FEB.2022 17:06:16

Test Report No.: G0M-2111-1148-TFC247BL-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted Spurious Emissions

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 37938
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-02-10
 Max. in-band Frequency [MHz]: 2480.2
 Max. in-band Level [dBm/100 kHz]: -6.3
 Out-of-band Limit [dBm/100 kHz]: -26.3



Date: 10.FEB.2022 17:11:17

Test Report No.: G0M-2111-1148-TFC247BL-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.8 Test Conditions and Results - Transmitter radiated emissions

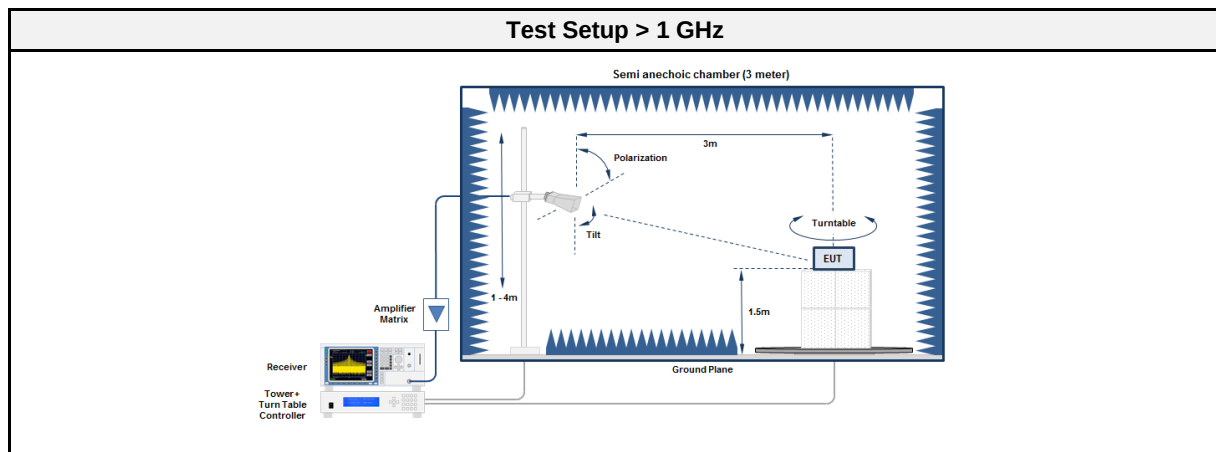
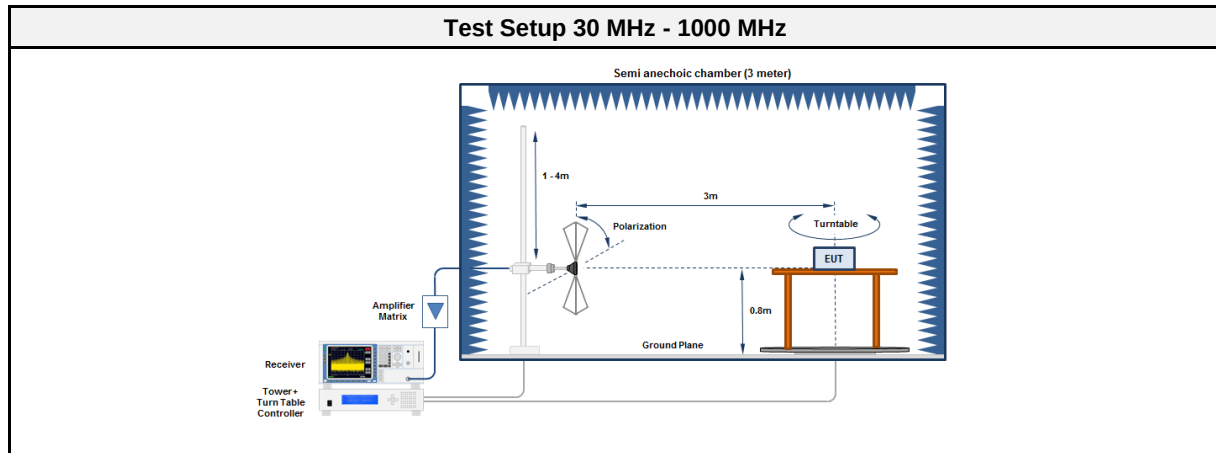
3.8.1 Information

Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISSED RSS-Gen, Issue 5 A2 (section 6.13)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6, 11.12
Operator	Odai Qawasmeh
Date	2022-01-20
Comment	USB cable was connected to laptop. Connection was used to perform a direct test mode and it is not necessary for the normal operation mode.

3.8.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [µV/m]	Measurement distance [m]
0.009 - 0.09	Average	2400/F[kHz]	300
0.09 - 0.110	Quasi-Peak	2400/F[kHz]	300
0.110 - 0.490	Average	2400/F[kHz]	300
0.490 - 1.705	Quasi-Peak	24000/F[kHz]	30
1.705 - 30.0	Quasi-Peak	30	30
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.8.3 Setup



3.8.4 Equipment

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

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2021-07	2022-07
Antenna	R&S	HK 116	EF00030	2021-05	2024-05
Antenna	R&S	HL 223	EF00212	2019-05	2022-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber	Frankonia	AC 2	EF01616	2021-09	2022-09
Spectrum analyzer	R&S	FSU43	EF01631	2021-07	2022-07
Horn antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2022-03
Horn Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.8.5 Procedure

Test Procedure 30 MHz - 1000 MHz
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz
1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector

3.8.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2402	168.023	28.80	pk	ver	43.50	-14.72
2402	240.48	29.10	pk	ver	46.00	-16.87
2402	335.4	33.50	pk	ver	46.00	-12.46
2440	167.8998	28.20	pk	ver	43.50	-15.29
2440	240.18	29.00	pk	ver	46.00	-17.01
2440	335.4	31.50	pk	ver	46.00	-14.50
2440	7320.4	48.48	pk	ver	74.00	-25.52
2440	7320.4	39.91	avg	ver	54.00	-14.09
2480	168.2525	27.90	pk	ver	43.50	-15.61
2480	240	30.50	pk	ver	46.00	-15.46
2480	335.36	28.10	pk	ver	46.00	-17.87
2480	4960	41.96	pk	hor	74.00	-32.04
2480	4960	39.14	avg	hor	54.00	-14.86
2480	7439	50.00	pk	hor	74.00	-24.00
2480	7439	41.44	avg	hor	54.00	-12.56

3.9 Test Conditions and Results - Receiver radiated emissions

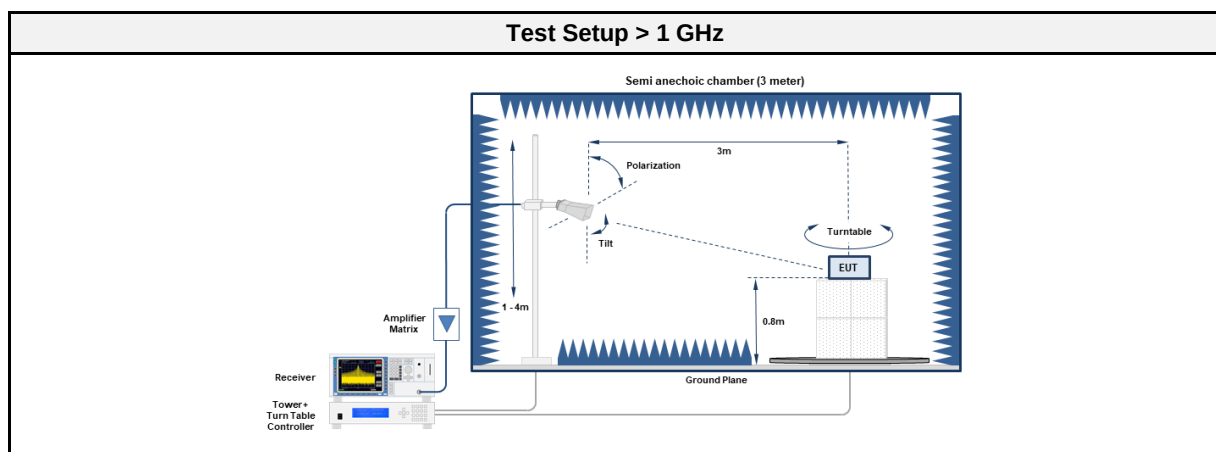
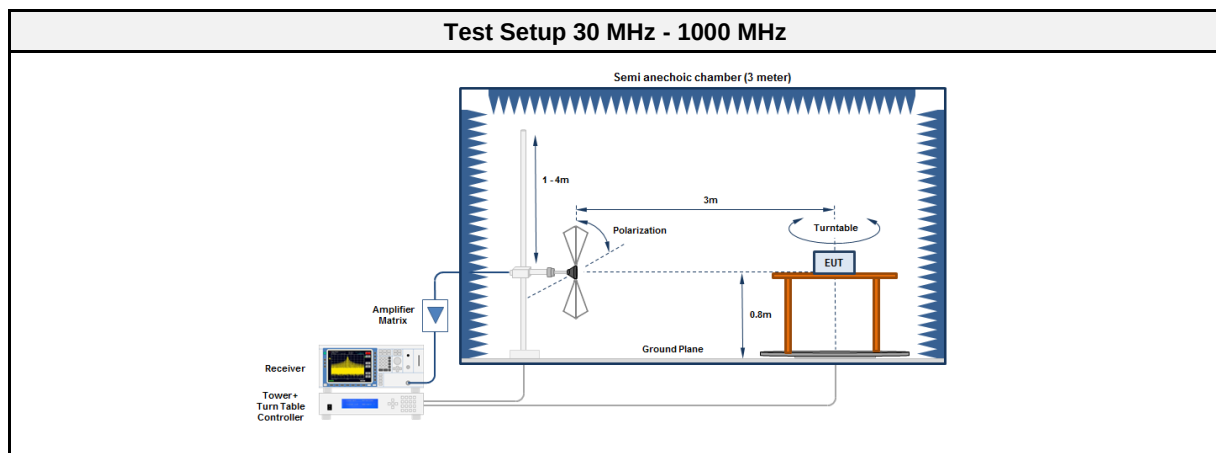
3.9.1 Information

Test Information	
Reference	ISED RSS-247, Issue 2 (section 3.1)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.4-2014 8.1-8.3
Operator	Odai Qawasmeh
Date	2022-01-20
Comment	USB cable was connected to laptop. Connection was used to perform a direct test mode and it is not necessary for the normal operation mode.

3.9.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [$\mu\text{V/m}$]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.9.3 Setup



Test Report No.: G0M-2111-1148-TFC247BL-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.9.4 Equipment

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

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2021-07	2022-07
Antenna	R&S	HK 116	EF00030	2021-05	2024-05
Antenna	R&S	HL 223	EF00212	2019-05	2022-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2021-07	2022-07
Horn antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2022-03
Horn Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03

3.9.5 Procedure

Test Procedure
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground 2. EUT is set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector

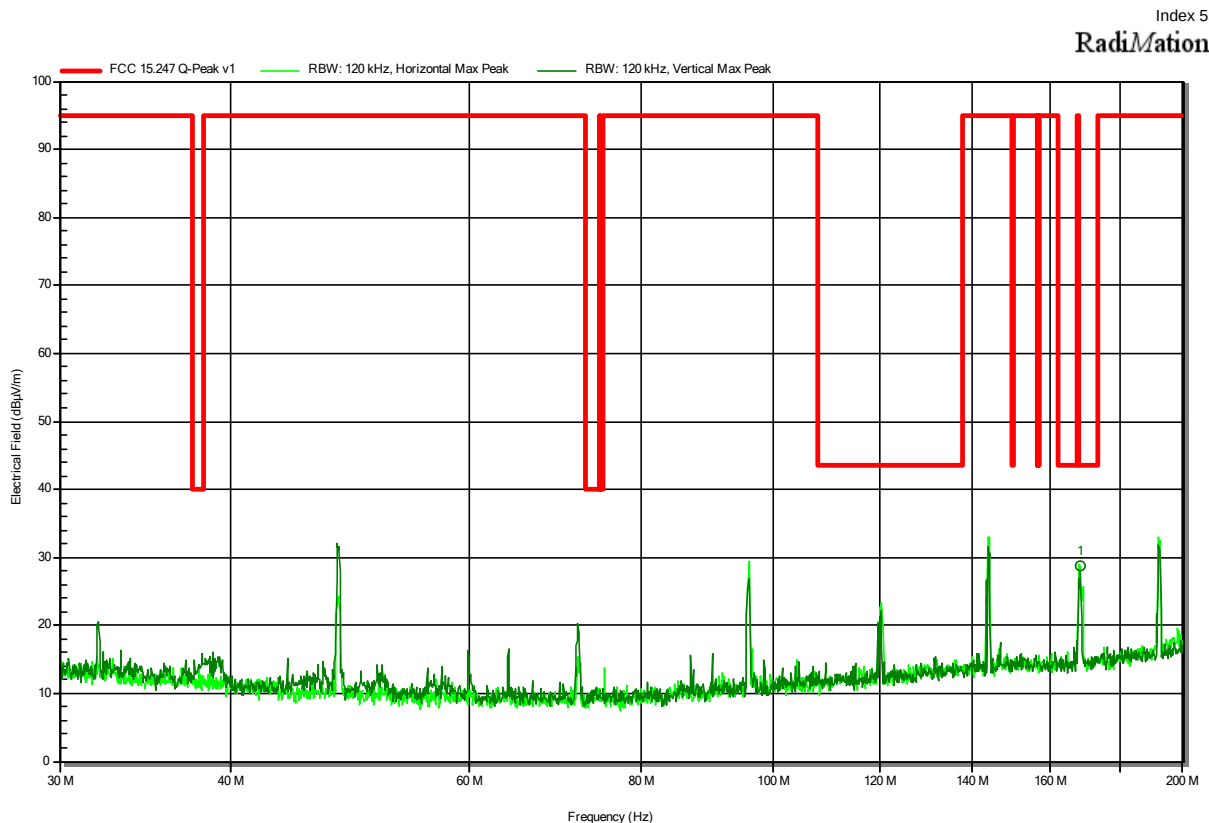
3.9.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2440	144.087	32.00	pk	ver	43.50	-11.52
2440	192.061	32.50	pk	ver	43.50	-10.98
2440	216.38	31.60	pk	ver	46.00	-14.45
2440	383.42	34.60	pk	ver	46.00	-11.38

ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to FCC 15.247

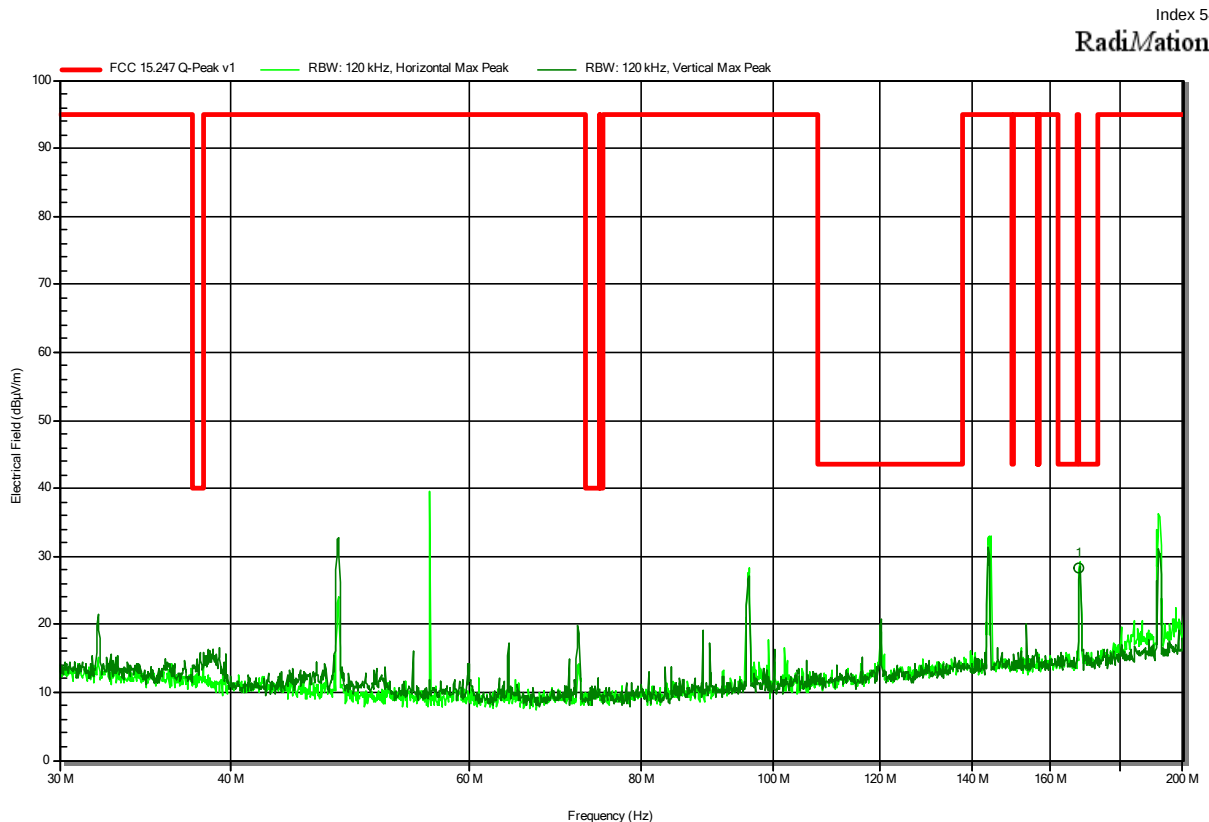
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2402 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-31
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
168.023 MHz	28.8 dBμV/m	43.5 dBμV/m	-14.72 dB	Pass	Horizontal

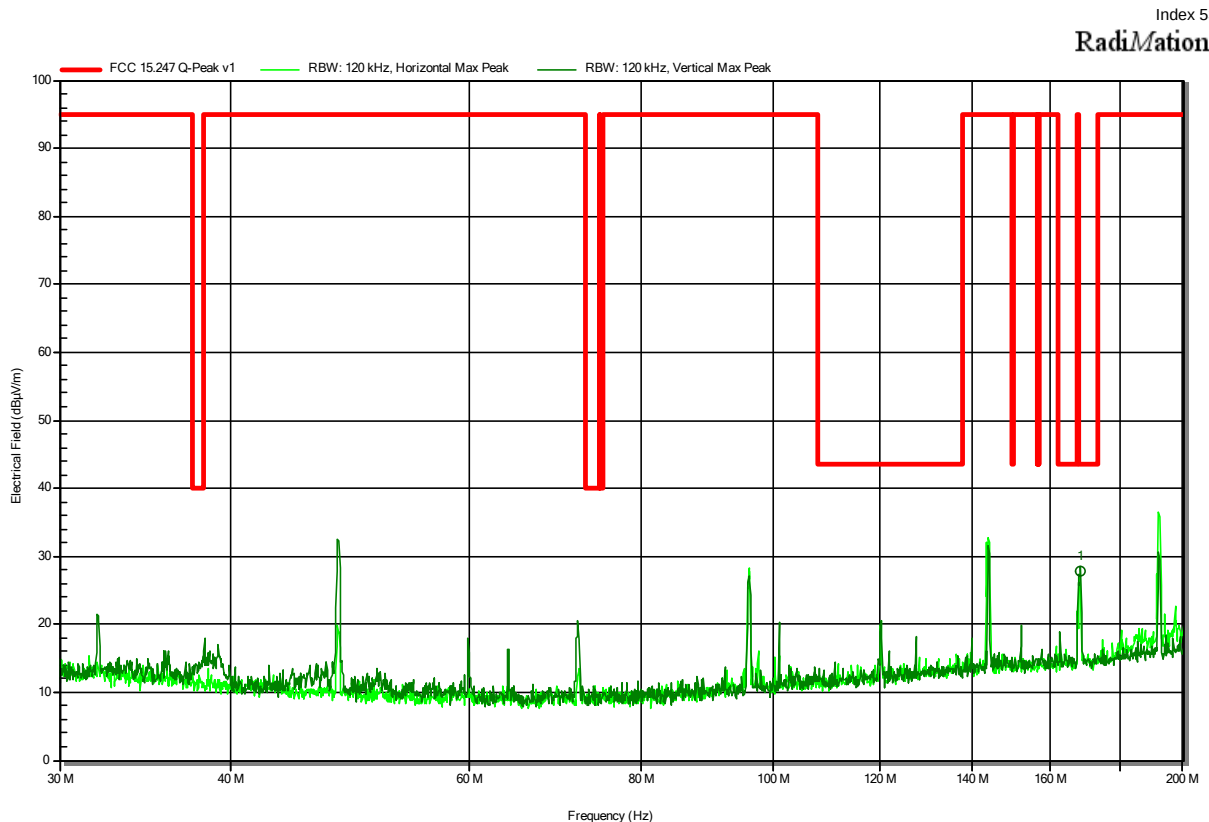
Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2440 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-31
 Note:



Radiated Spurious Emissions according to FCC 15.247

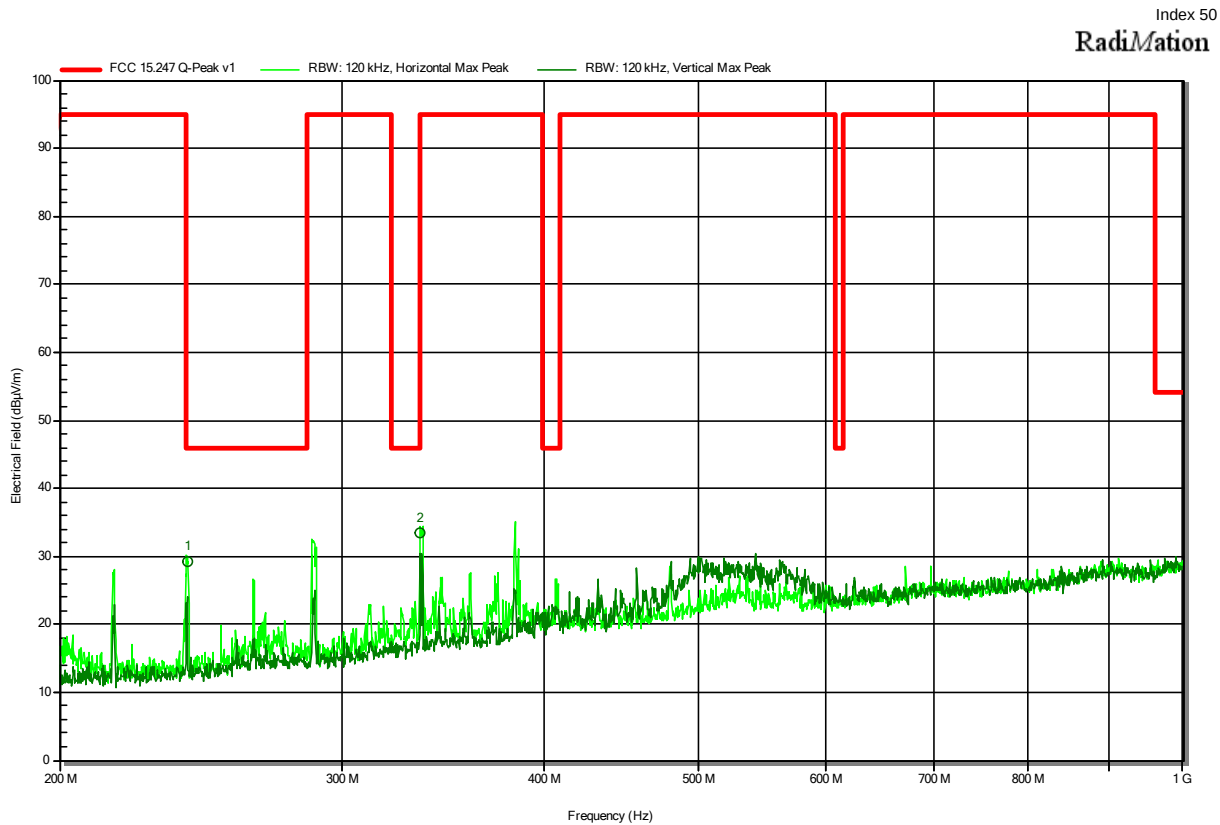
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2480 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-31
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
168.2525 MHz	27.9 dBμV/m	43.5 dBμV/m	-15.61 dB	Pass	Vertical

Radiated Spurious Emissions according to FCC 15.247

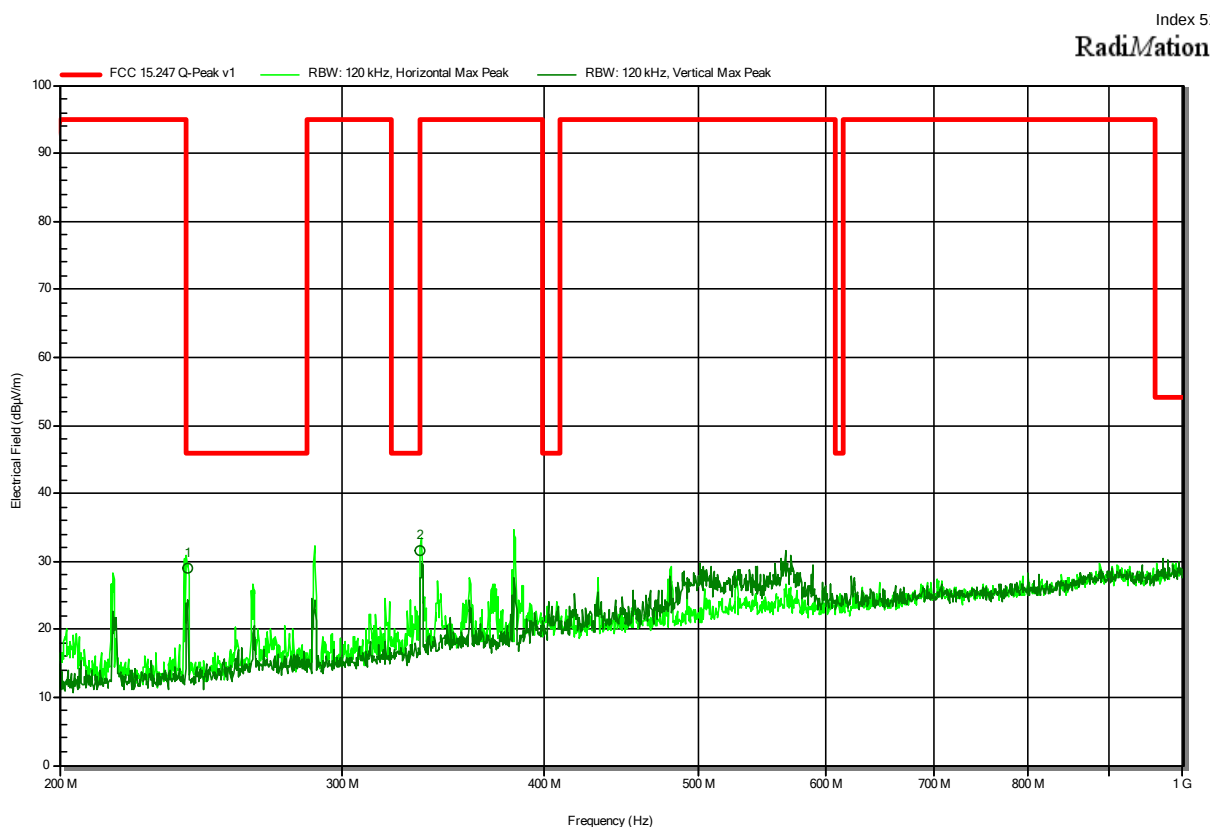
Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2402 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-31
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
240.48 MHz	29.1 dBμV/m	46 dBμV/m	-16.87 dB	Pass	Horizontal
335.4 MHz	33.5 dBμV/m	46 dBμV/m	-12.46 dB	Pass	Horizontal

Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2440 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-31
 Note:



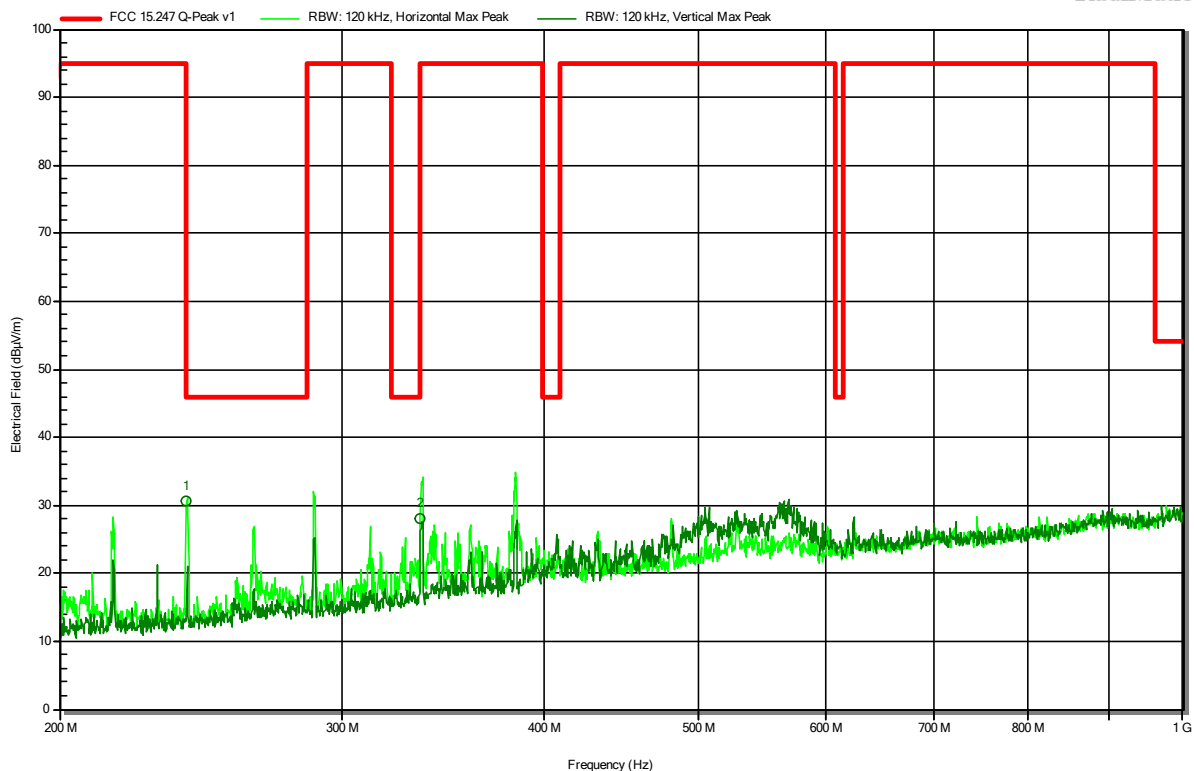
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
240.18 MHz	29 dBµV/m	46 dBµV/m	-17.01 dB	Pass	Horizontal
335.4 MHz	31.5 dBµV/m	46 dBµV/m	-14.5 dB	Pass	Horizontal

Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2480 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-31
 Note:

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RadiMation



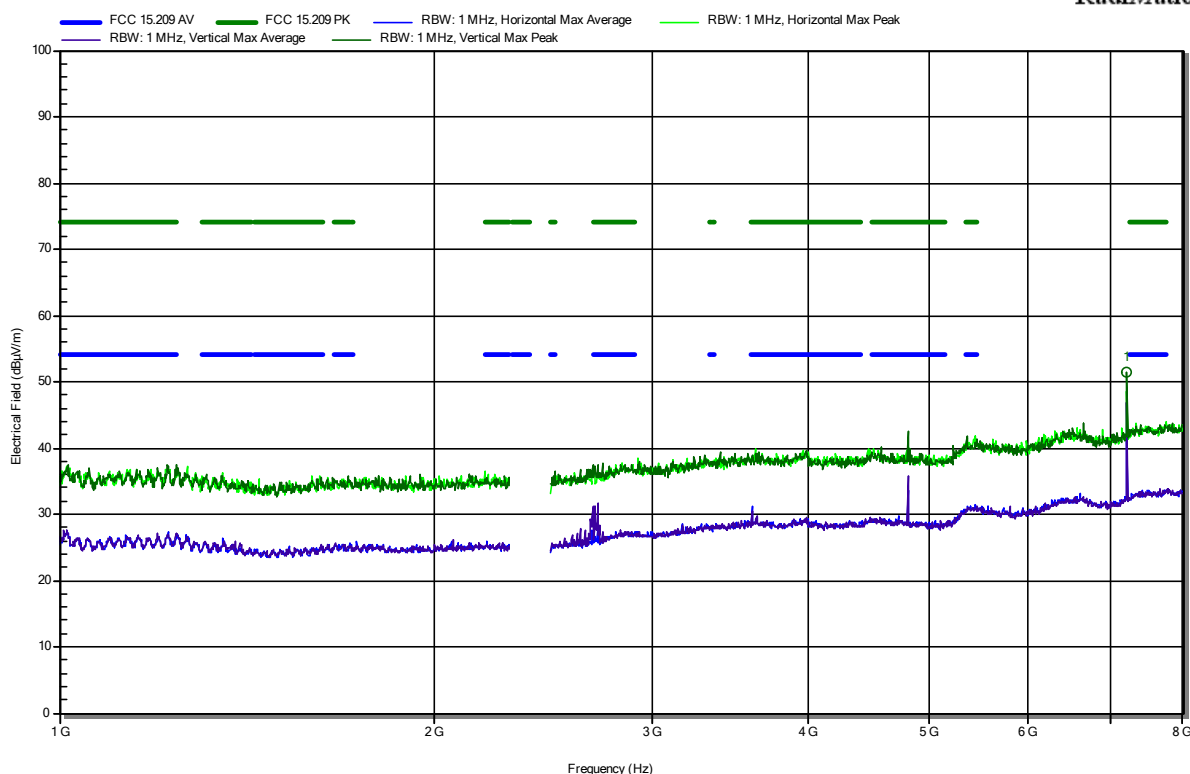
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
240 MHz	30.5 dBμV/m	46 dBμV/m	-15.46 dB	Pass	Horizontal
335.36 MHz	28.1 dBμV/m	46 dBμV/m	-17.87 dB	Pass	Horizontal

Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: False, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Schwarzbeck BBHA 9120B, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2402 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-20
 Note:

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RadiMation



Frequency
 7.2067 GHz

Peak
 51.42 dBμV/m

Frequency
 7.2067 GHz

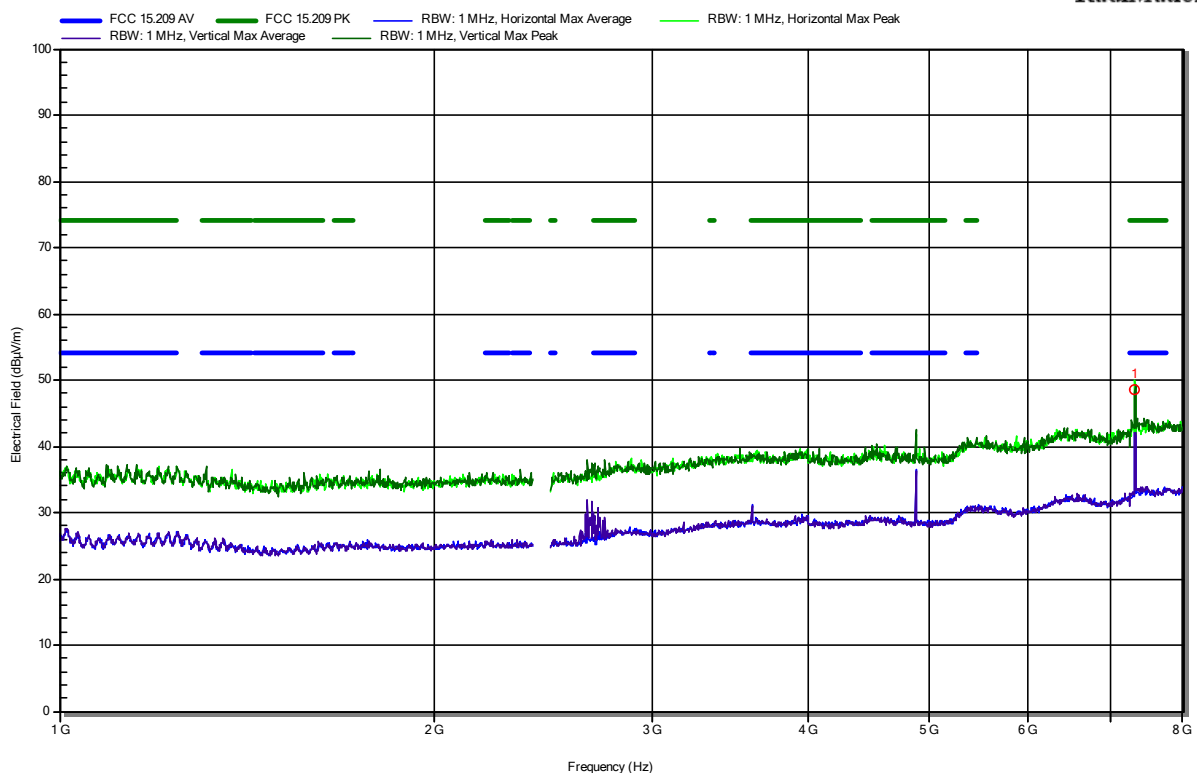
Average
 43.93 dBμV/m

Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: False, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Schwarzbeck BBHA 9120B, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2440 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-20
 Note:

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RadiMation



Frequency 7.3204 GHz	Peak 48.48 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -25.52 dB	Peak Status Pass
Frequency 7.3204 GHz	Average 39.91 dBμV/m	Average Limit 54 dBμV/m	Average Difference -14.09 dB	Average Status Pass

Test Report No.: G0M-2111-1148-TFC247BL-V01

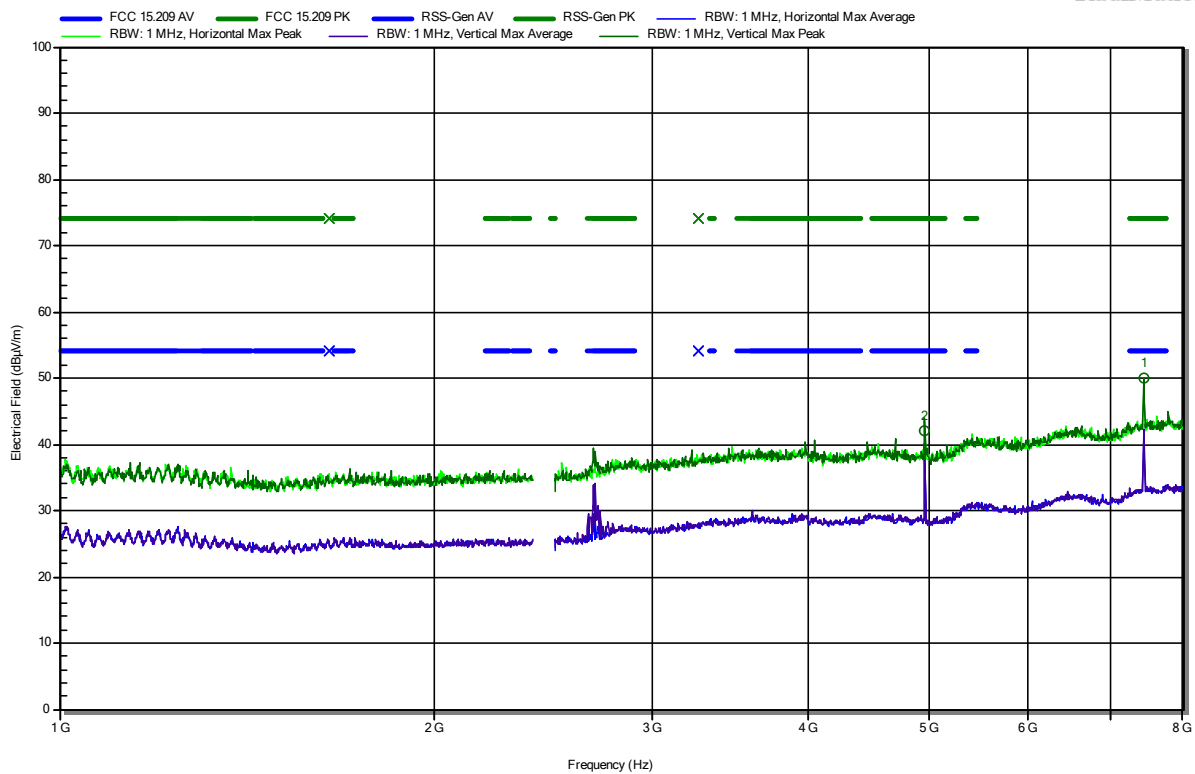
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: False, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Schwarzbeck BBHA 9120B, Horizontal
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2480 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-20
 Note:

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.96 GHz	41.96 dBμV/m	74 dBμV/m	-32.04 dB	Pass
7.439 GHz	50 dBμV/m	74 dBμV/m	-24 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
4.96 GHz	39.14 dBμV/m	54 dBμV/m	-14.86 dB	Pass
7.439 GHz	41.44 dBμV/m	54 dBμV/m	-12.56 dB	Pass

Test Report No.: G0M-2111-1148-TFC247BL-V01

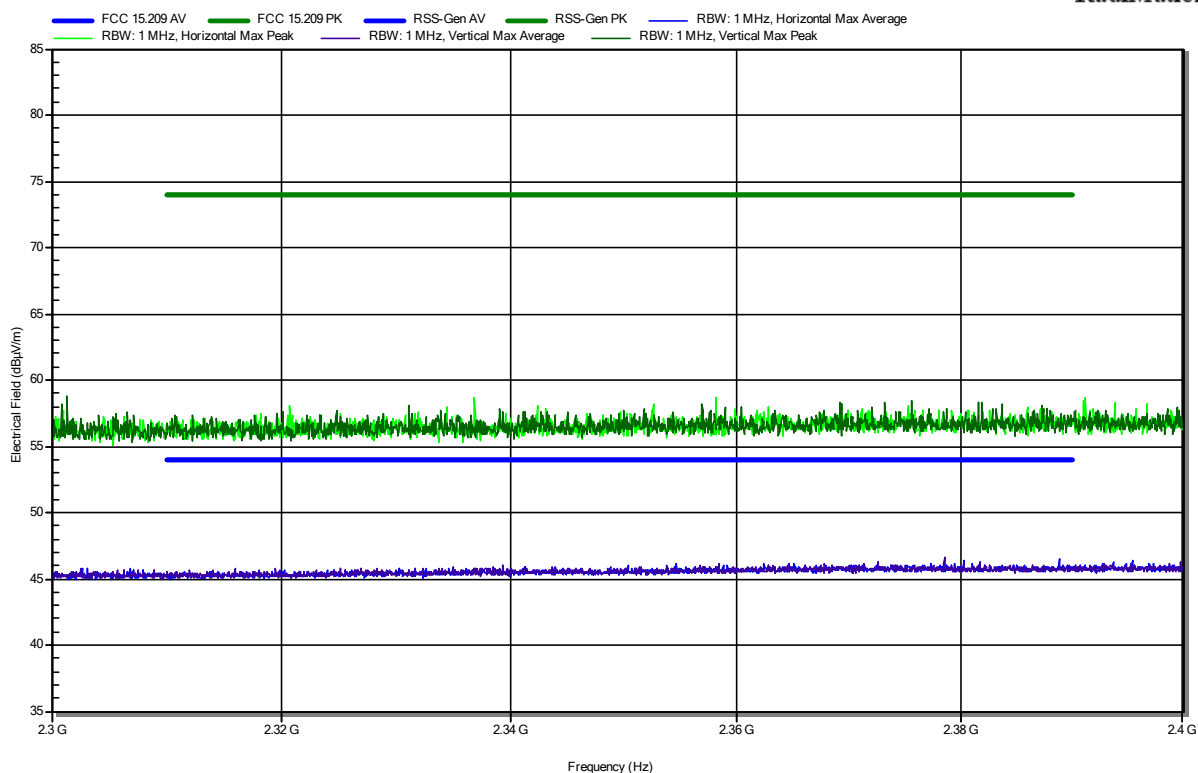
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: False, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2402 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-20
 Note: lower bandedge

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RadiMation

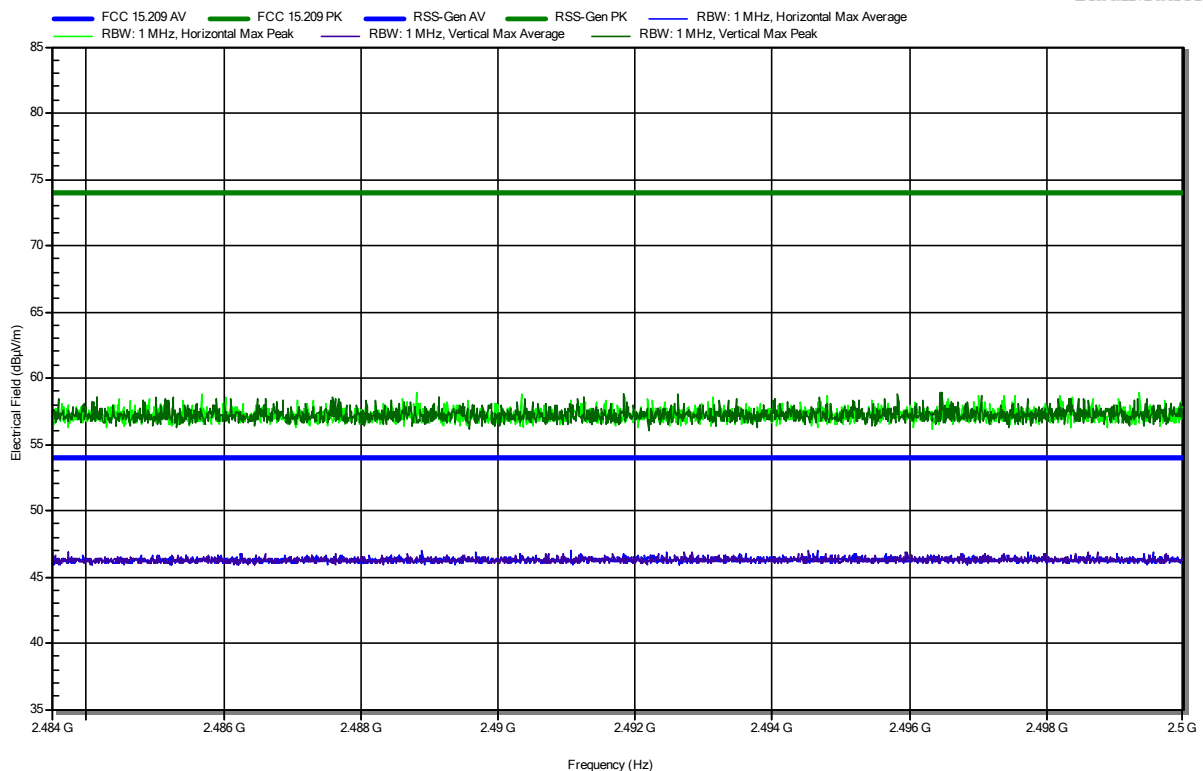


Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: False, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2480 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-20
 Note: upper bandedge

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RadiMation

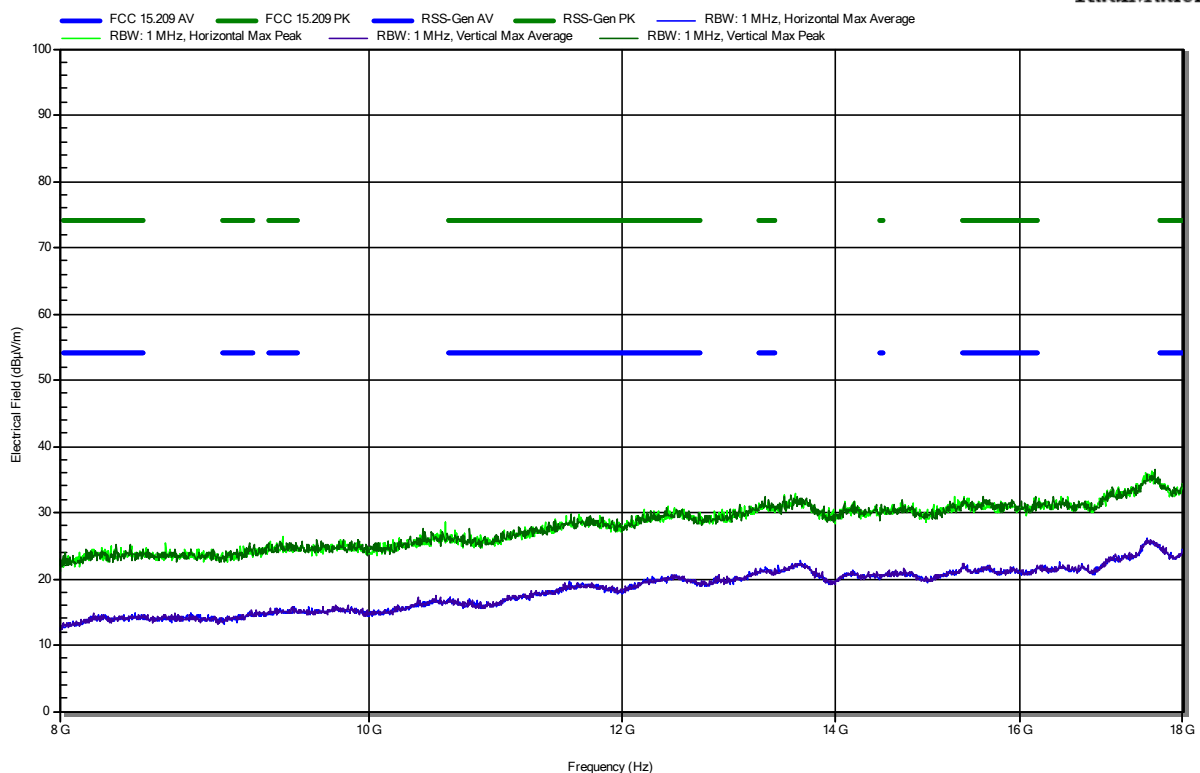


Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: False, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Schwarzbeck HWRD 650, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2402 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-20
 Note:

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RadiMation

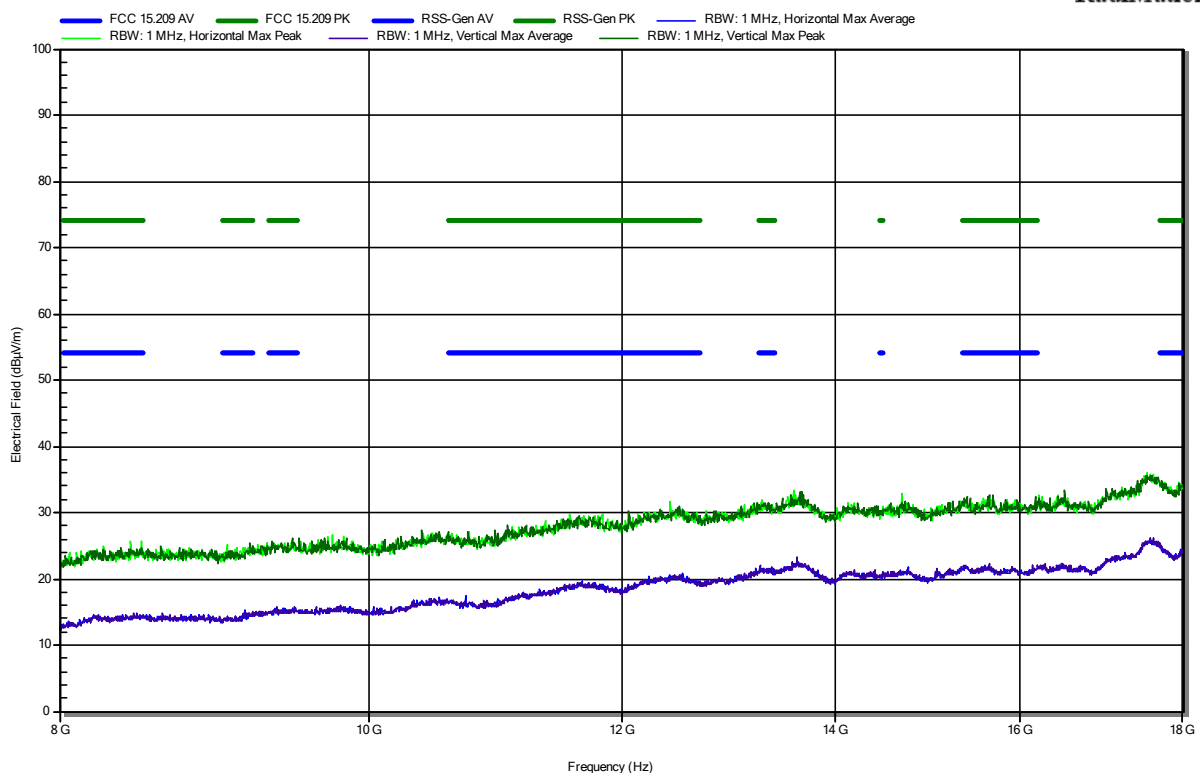


Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: False, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Schwarzbeck HWRD 650, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2440 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-20
 Note:

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RadiMation

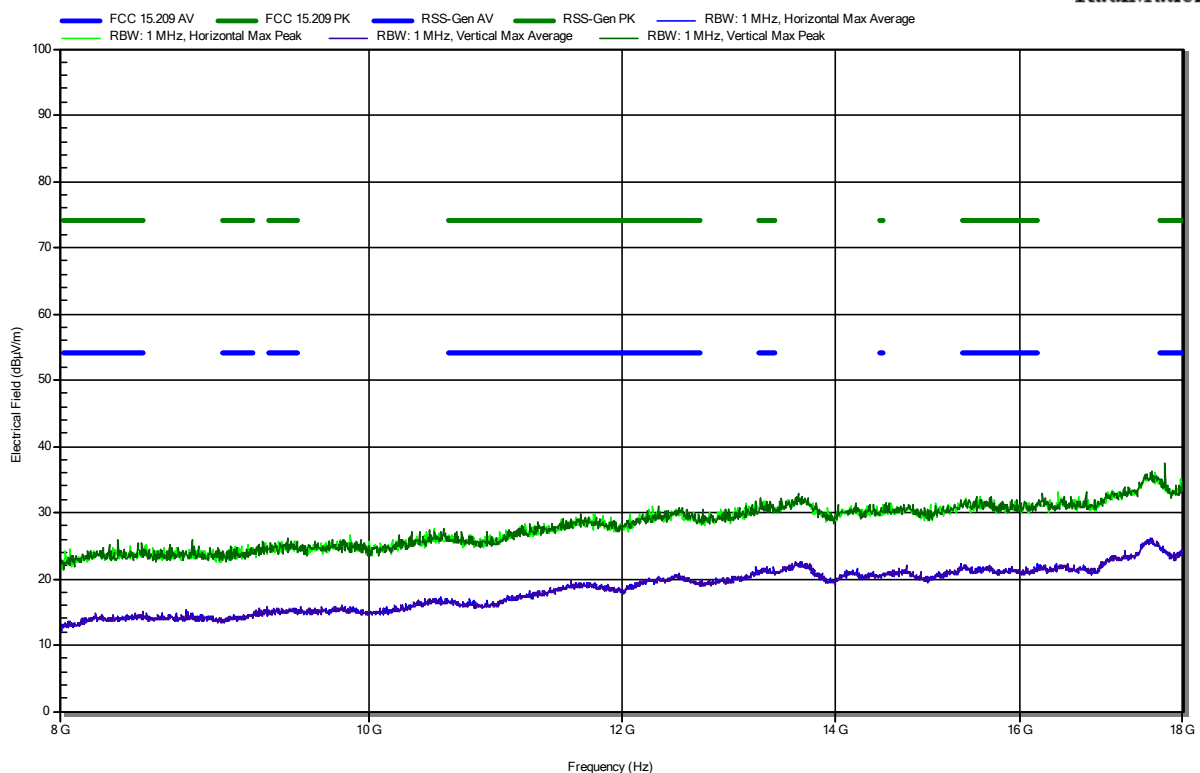


Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: False, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Schwarzbeck HWRD 650, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2480 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-20
 Note:

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RadiMation

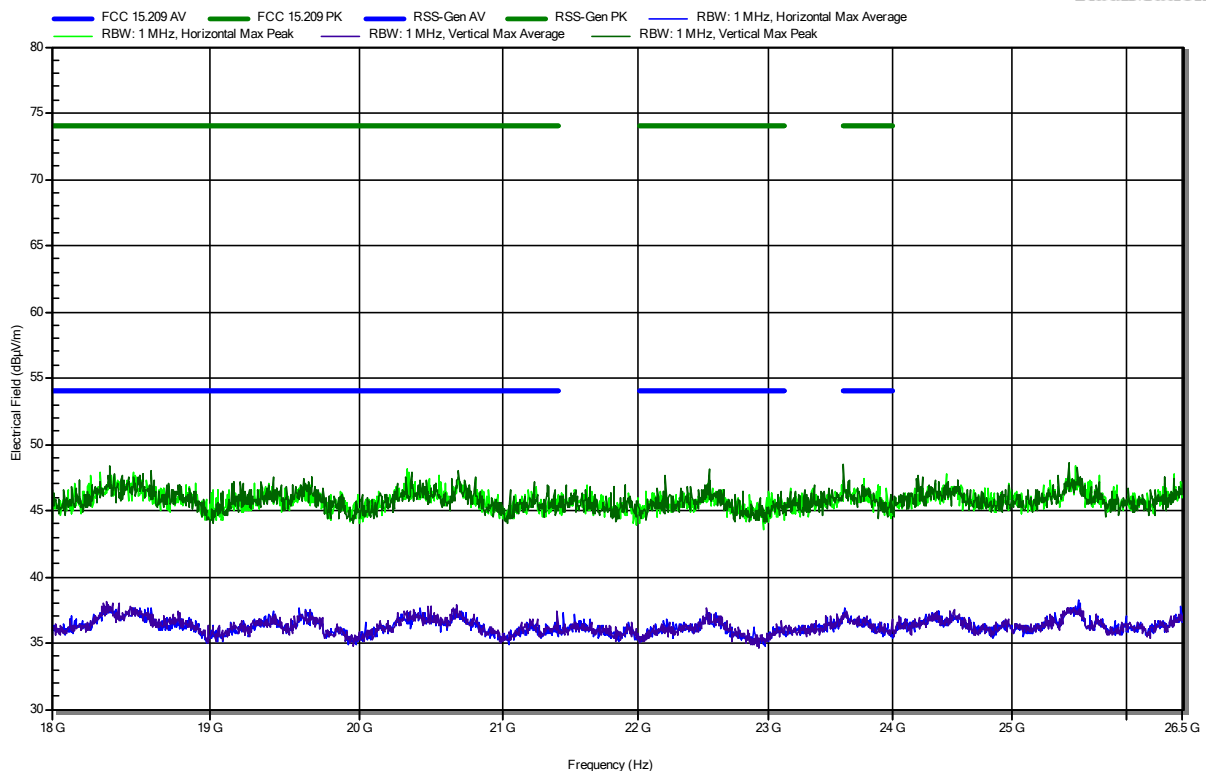


Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: False, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Amplifier Research AT4560, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2402 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-20
 Note:

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RadiMation

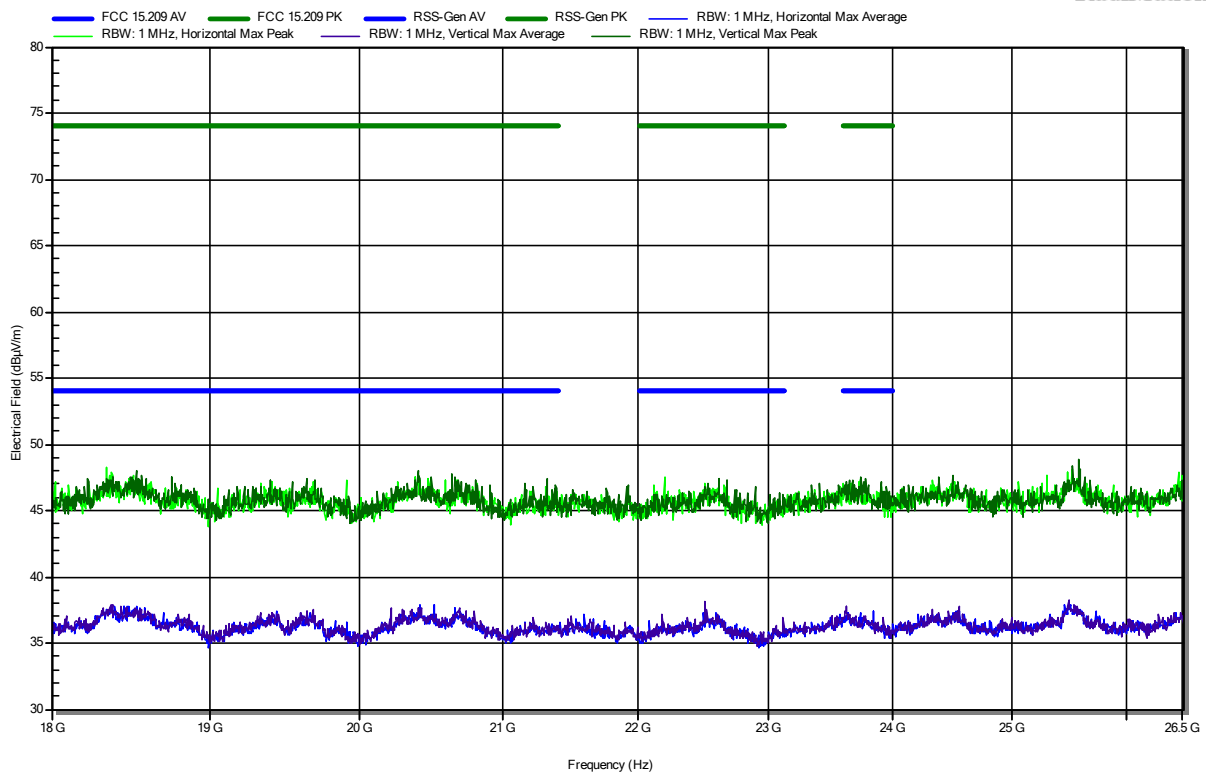


Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: False, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Amplifier Research AT4560, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2440 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-20
 Note:

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RadiMation

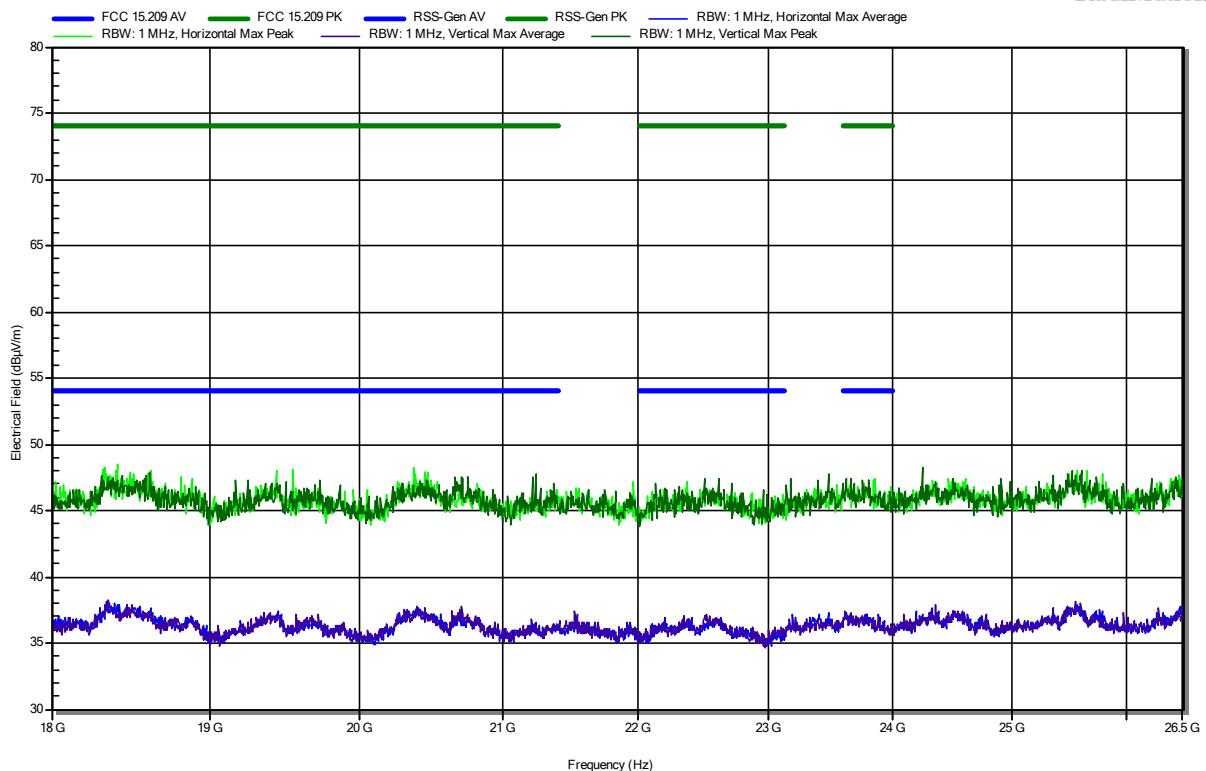


Radiated Spurious Emissions according to FCC 15.247

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: False, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Amplifier Research AT4560, Vertical
 Measurement distance: 3 m
 Mode: Tx; BTLE, 2480 MHz, 1 Mbps, data length 255 Byte, PRBS9, power 0 dBm
 Test Date: 2022-01-20
 Note:

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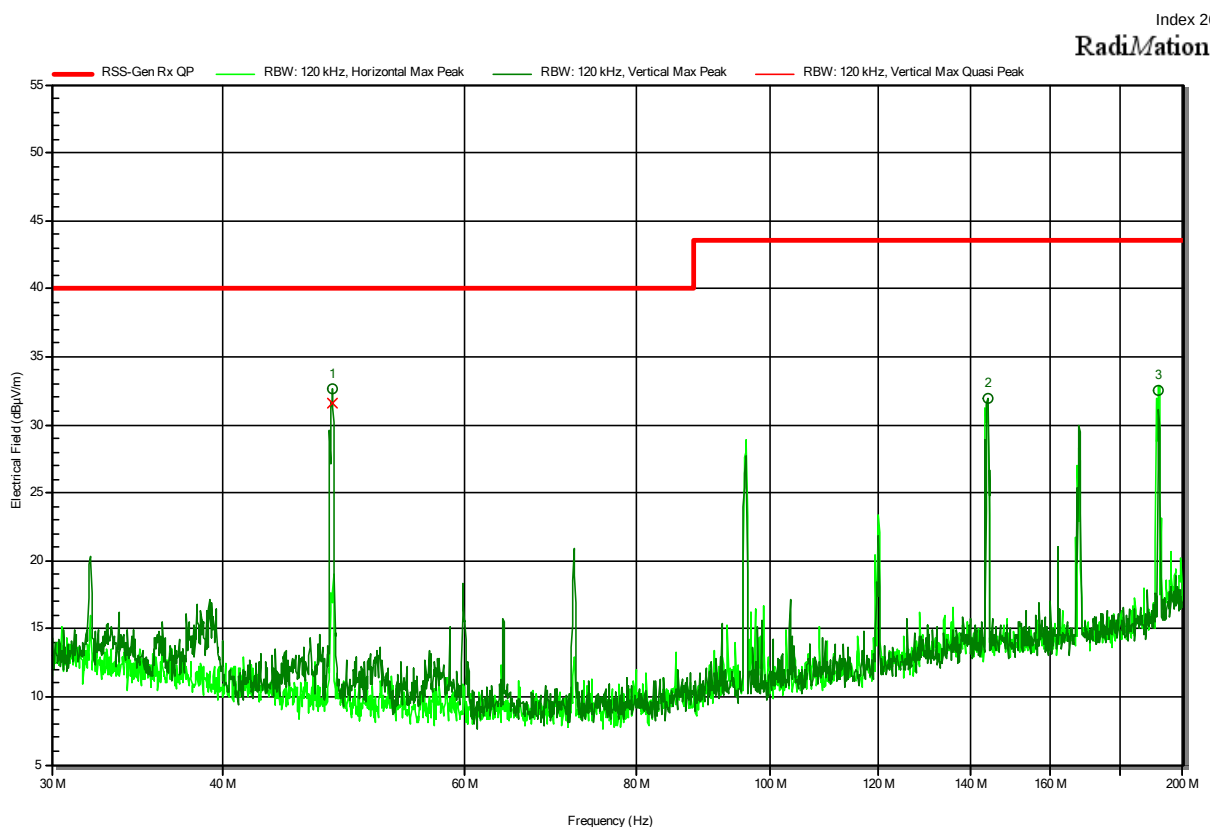
RadiMation



ANNEX B Receiver spurious emissions

Radiated Spurious Emissions according to FCC 15.247, RSS-247 Issue 2

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Rx; BT-LE 2440 MHz
 Test Date: 2022-01-31
 Note:



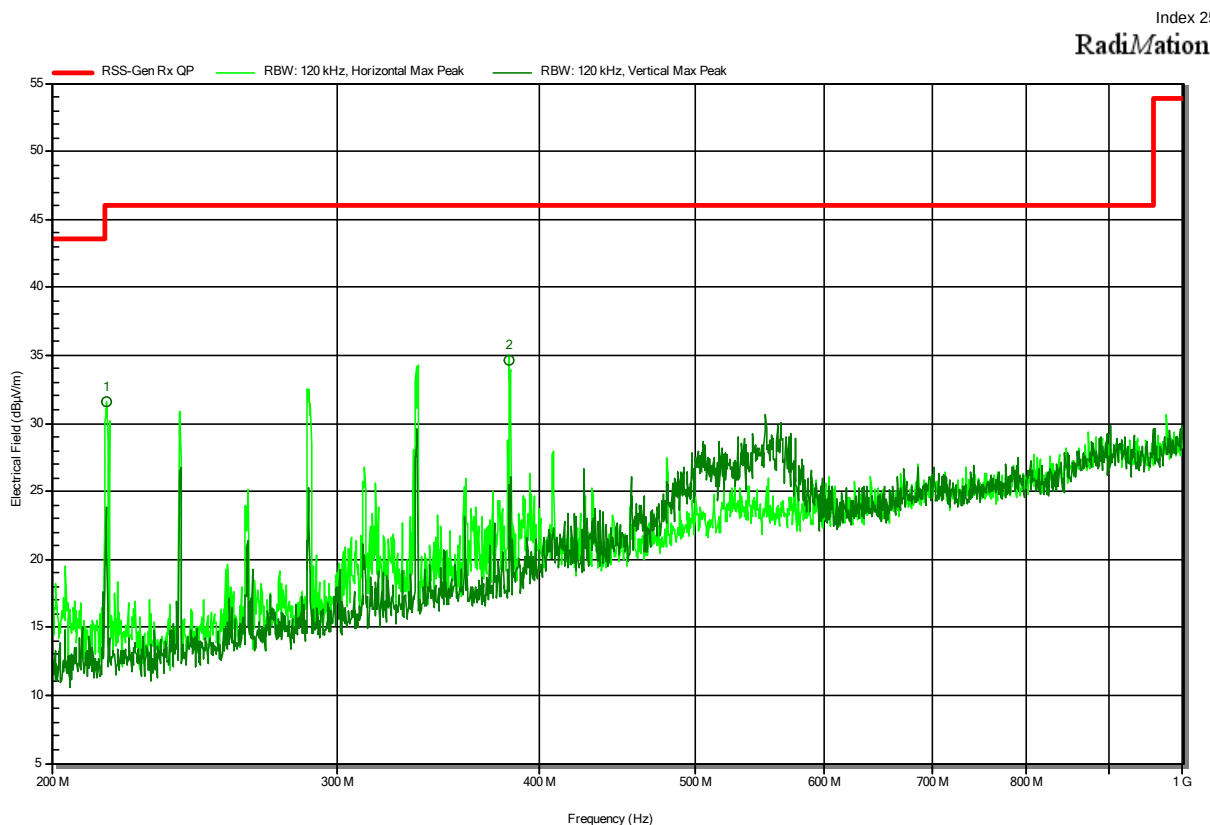
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
144.087 MHz	32 dBµV/m	43.5 dBµV/m	-11.52 dB	Pass	Vertical
192.061 MHz	32.5 dBµV/m	43.5 dBµV/m	-10.98 dB	Pass	Horizontal
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
47.9945 MHz	31.6 dBµV/m	40 dBµV/m	-8.44 dB	Pass	Vertical

Test Report No.: G0M-2111-1148-TFC247BL-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to FCC 15.247, RSS-247 Issue 2

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Rx; BT-LE 2440 MHz
 Test Date: 2022-01-31
 Note:



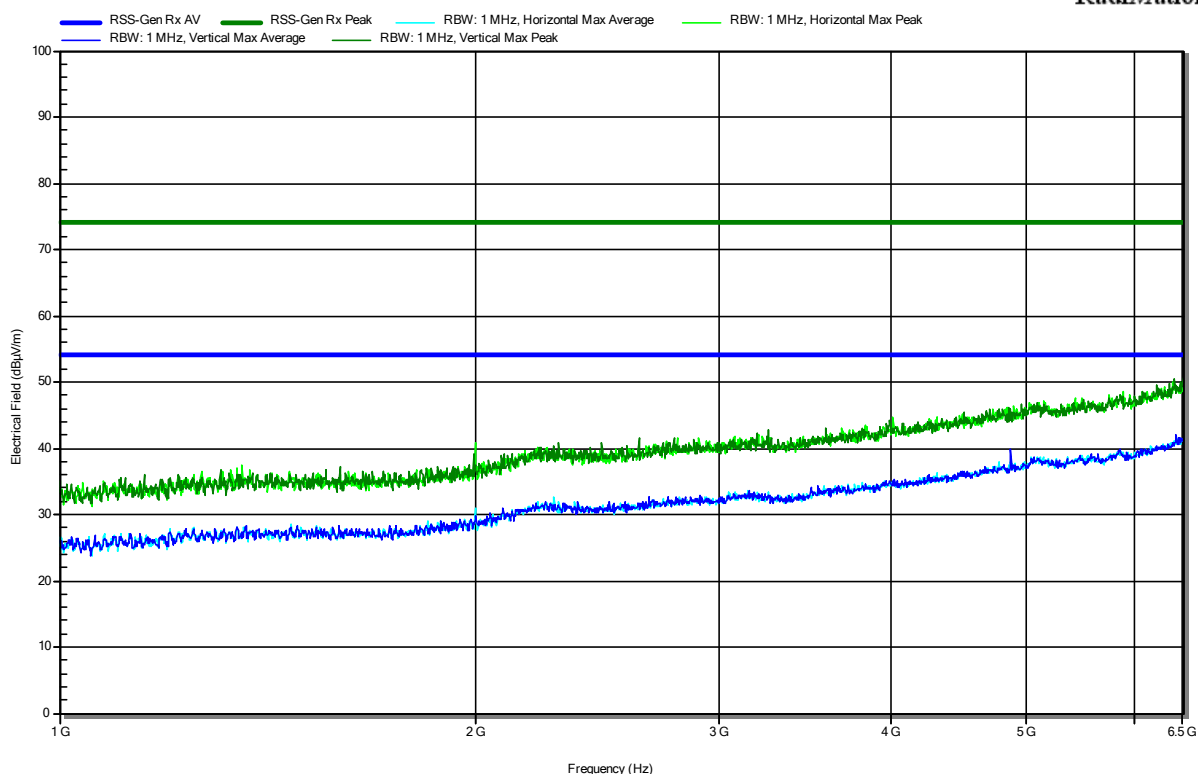
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
216.38 MHz	31.6 dBµV/m	46 dBµV/m	-14.45 dB	Pass	Horizontal
383.42 MHz	34.6 dBµV/m	46 dBµV/m	-11.38 dB	Pass	Horizontal

Radiated Spurious Emissions according to FCC 15.247, RSS-247 Issue 2

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Rx; BT-LE 2440 MHz
 Test Date: 2022-01-31
 Note:

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RadiMation

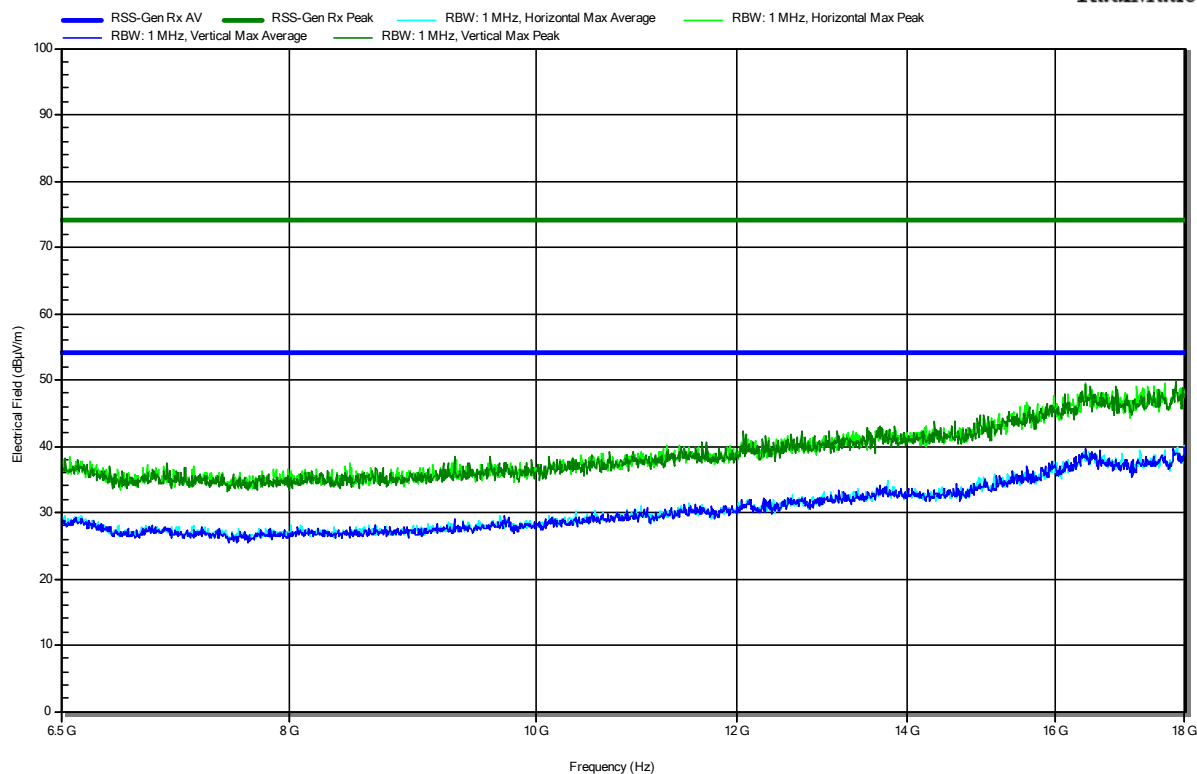


Radiated Spurious Emissions according to FCC 15.247, RSS-247 Issue 2

Project Number: G0M-2111-1148
 Applicant: Corsano Health B.V.
 Model Description: Wearable Bracelet for continuous monitoring of body metrics
 Model: CardioWatch 287-2
 Test Sample ID: 38099
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.6 VDC Battery (5 VDC voltage source)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Rx; BT-LE 2440 MHz
 Test Date: 2022-01-31
 Note:

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RadiMation



== = END OF TEST REPORT == =