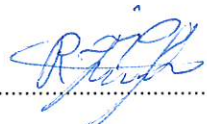


RADIO REPORT FCC 47 CFR Part 15C ISED Canada RSS-247 Digital transmission systems operating within the 2400.0 MHz - 2483.5 MHz band	
Report Reference No	G0M-2201-1252-TFC247BL-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    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	NOWATCH BV
Address	Prinsengracht 769 1017 JZ AMSTERDAM 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	NOWATCH AWEARABLE Bluetooth Bracelet
Model(s)	NX
Additional Model(s)	None
Brand Name(s)	None
Hardware Version(s)	0401
Software Version(s)	2022.02.18.1
FCC ID	2A35XNX
IC	28449-NX
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	2022-04-28	
Report:		
Compiled by	Odai Qawasmeh	
Tested by (+ signature)	Odai Qawasmeh	
Tested by (+ signature) (Responsible for Test)	Wilfried Treffke	
Approved by (+ signature) (Test Lab Engineer)	Radwan Jaafar	
Date of Issue	2022-09-08	
Total number of pages	123	
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	2022-09-08	Initial Release	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
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	NOWATCH AWEARABLE Bluetooth Bracelet	
Model	NX	
Additional Model(s)	None	
Brand Name(s)	None	
Serial Number(s)	Prototype Prototype	Radiated Test Sample ID: 39436 Conducted Test Sample ID: 38830
Hardware Version(s)	0401	
Software Version(s)	2022.02.18.1	
PMN	NOWATCH X	
HVIN	NX	
FVIN	N/A	
HMN	N/A	
FCC ID	2A35XNX	
IC	28449-NX	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	2400.0 MHz - 2483.5 MHz	
Radio technology	Bluetooth LE 5.0	
Bluetooth Specification	LE 1M PHY	Yes
	LE 2M PHY	Yes
	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	IFA
	Manufacturer	Not specified
	Gain	-4.5 dBi
AC/DC-Adapter	Model	NXC
	Vendor	NOWATCH
	Input	120 VAC / 60 Hz
	Output	5 V
Supply Voltage	V _{NOM}	3.85 VDC
Operating Temperature	T _{NOM}	25 °C
Manufacturer	NOWATCH BV Prinsengracht 769 1017 JZ AMSTERDAM Netherlands	

1.3 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Laptop	Lenovo	-	-
SFT	Bluetooth LE DTS over UART	-	-	Test Mode Configuration
AE	USB adapter	NOWATCH	NXC	
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.4 Test Modes

Mode	Description
GFSK 1 Mbps	Mode = Transmit Modulation = GFSK Data rate= 1 Mbps Spreading = None Packet Type = PRBS9 Packet Length = 193 Bytes Duty cycle = 87.7 %
GFSK 2 Mbps	Mode = Transmit Modulation = GFSK Data rate= 2 Mbps Spreading = None Packet Type= PRBS9 Packet Length = 239 Bytes Duty cycle = 83 %
Receive	Mode = Receive
Comment: With the above settings, the highest duty cycles were determined and are therefore used for the measurements.	

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 dBμV. 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 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:

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

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 dBμV + 26 dB/m	= 47.5 dBμV/m	:	47.5 dBμV/m - 57.0 dBμV/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

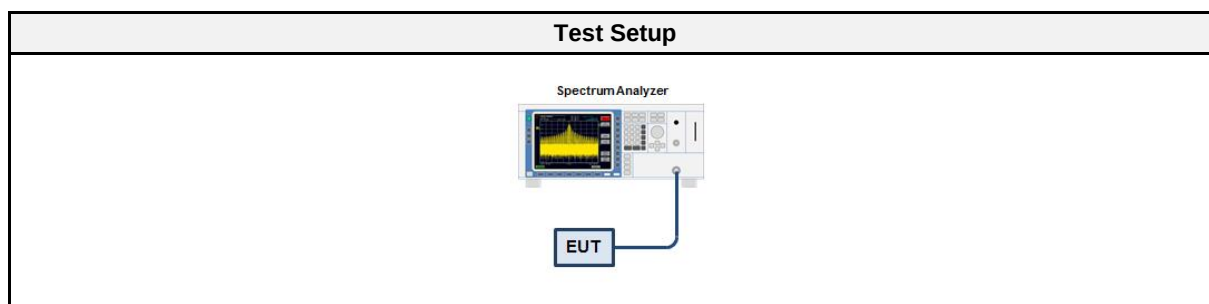
3.1.1 Information

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	38830
Operator	Dr.-Ing. Dhamia Almozani
Date	2022-03-25 + 2022-07-04

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)	Gigalane	CAABN	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

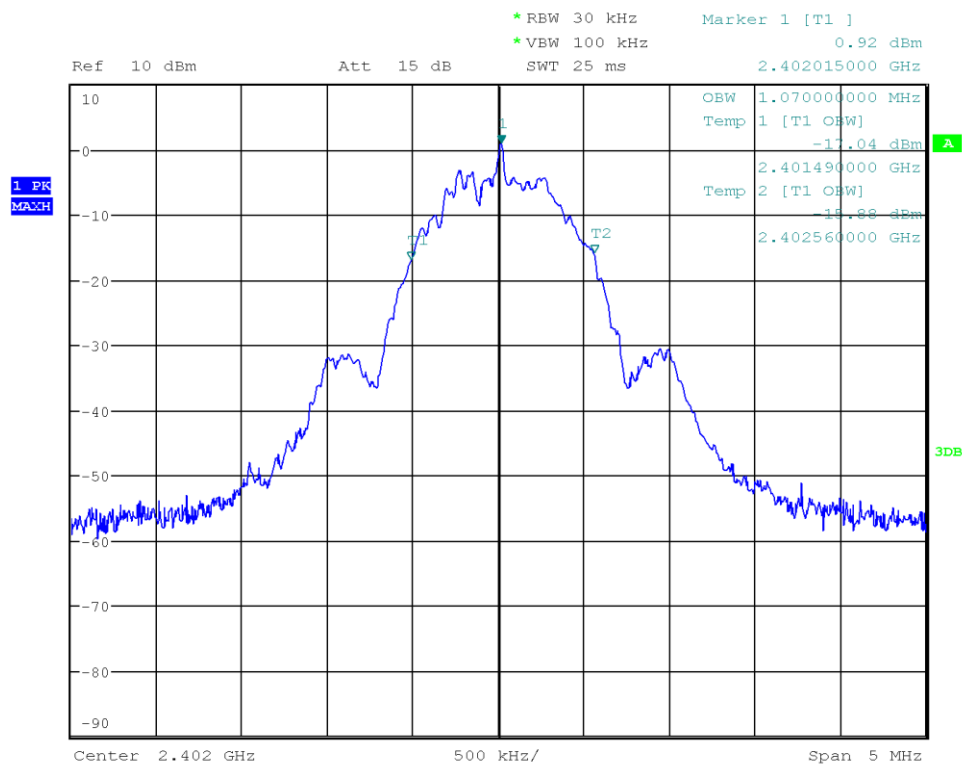
3.1.6 Results

Test Results 1 Mbps		
Mode	Frequency [MHz]	Bandwidth [MHz]
GFSK	2402	1.070
GFSK	2440	1.080
GFSK	2480	1.095

Test Results 2 Mbps		
Mode	Frequency [MHz]	Bandwidth [MHz]
GFSK	2402	2.060
GFSK	2440	2.070
GFSK	2480	2.090

Occupied Bandwidth

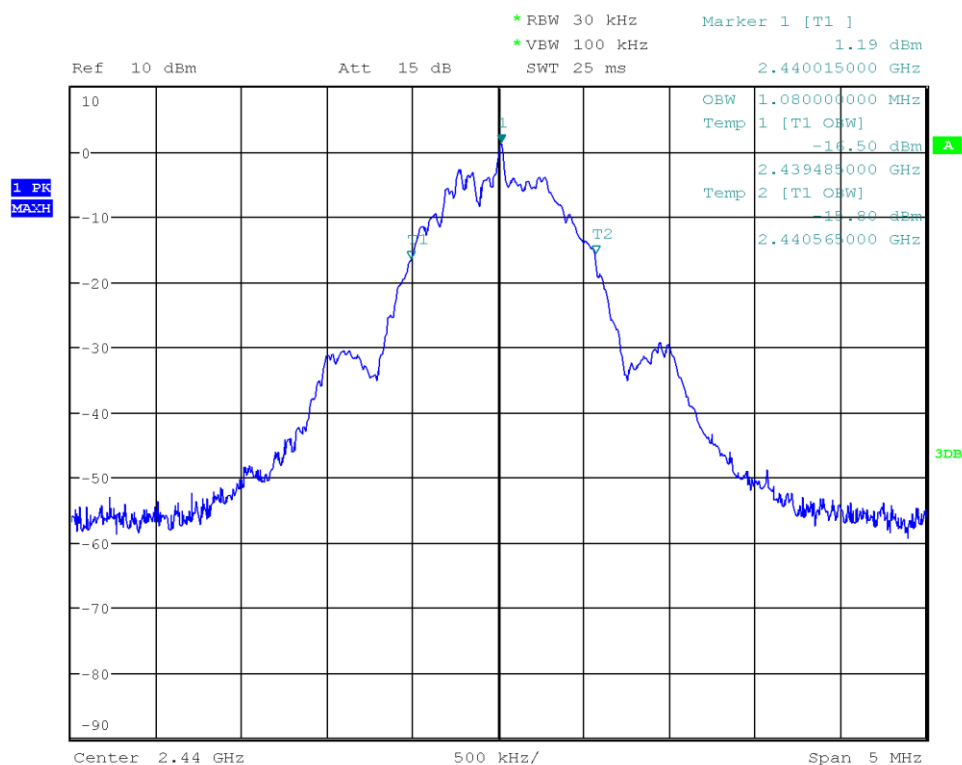
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Occupied Bandwidth [MHz]: 1.070



Date: 25.MAR.2022 14:03:42

Occupied Bandwidth

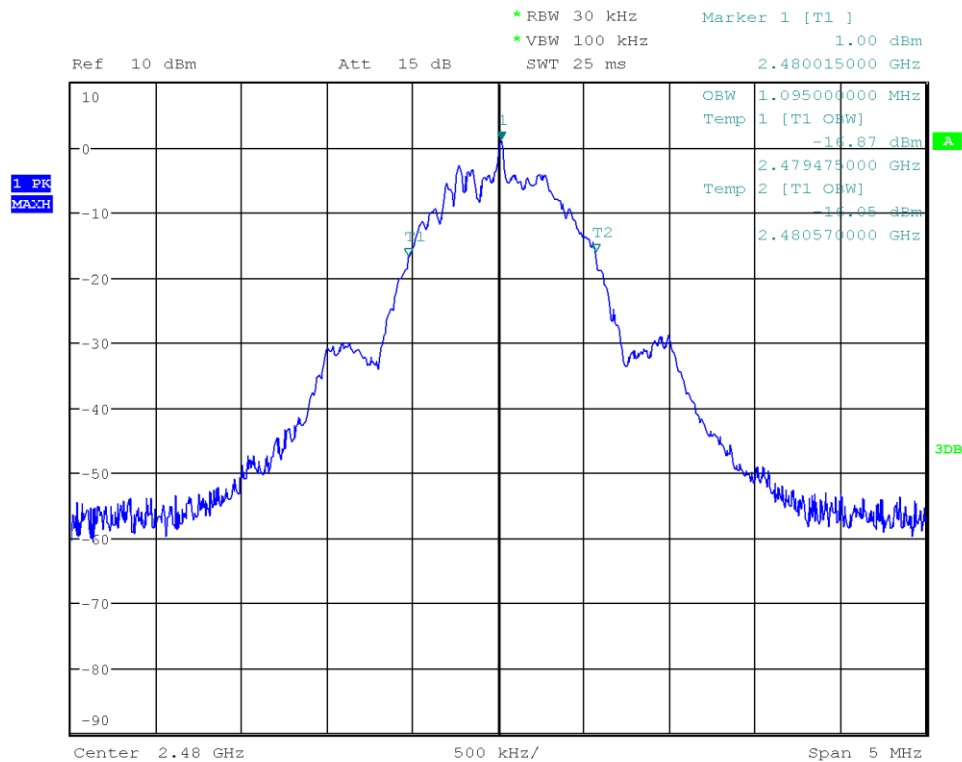
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Occupied Bandwidth [MHz]: 1.080



Date: 25.MAR.2022 14:05:04

Occupied Bandwidth

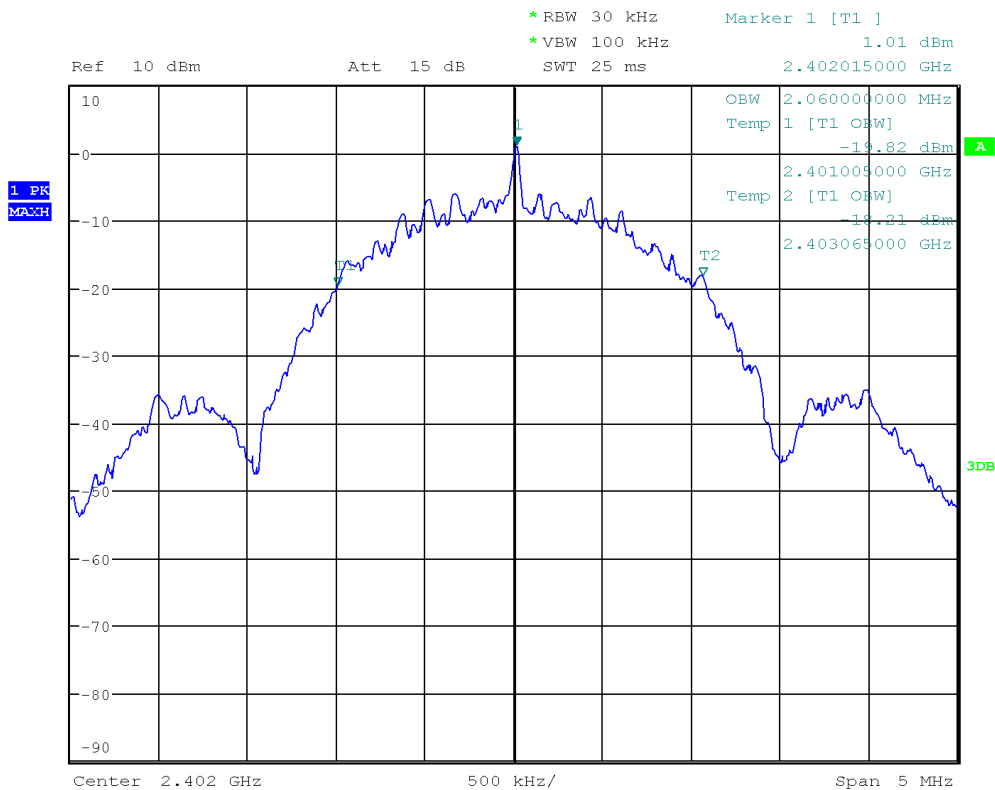
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Occupied Bandwidth [MHz]: 1.095



Date: 25.MAR.2022 14:06:07

Occupied Bandwidth

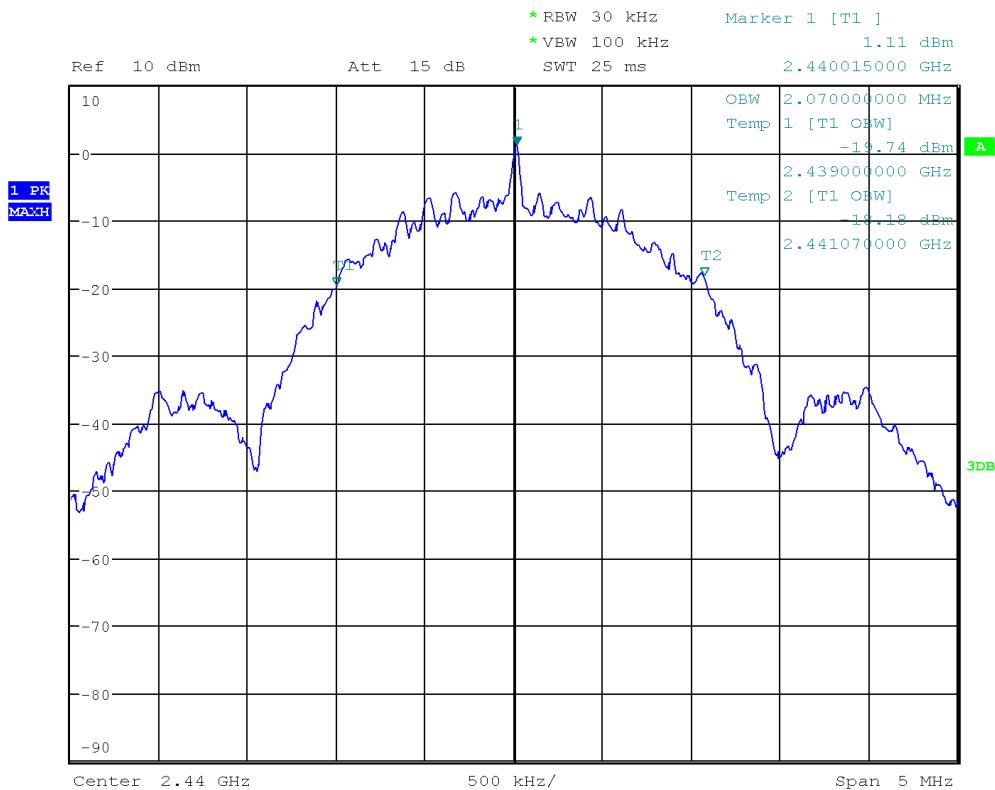
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-07-04
 Occupied Bandwidth [MHz]: 2.060



Date: 4.JUL.2022 10:19:50

Occupied Bandwidth

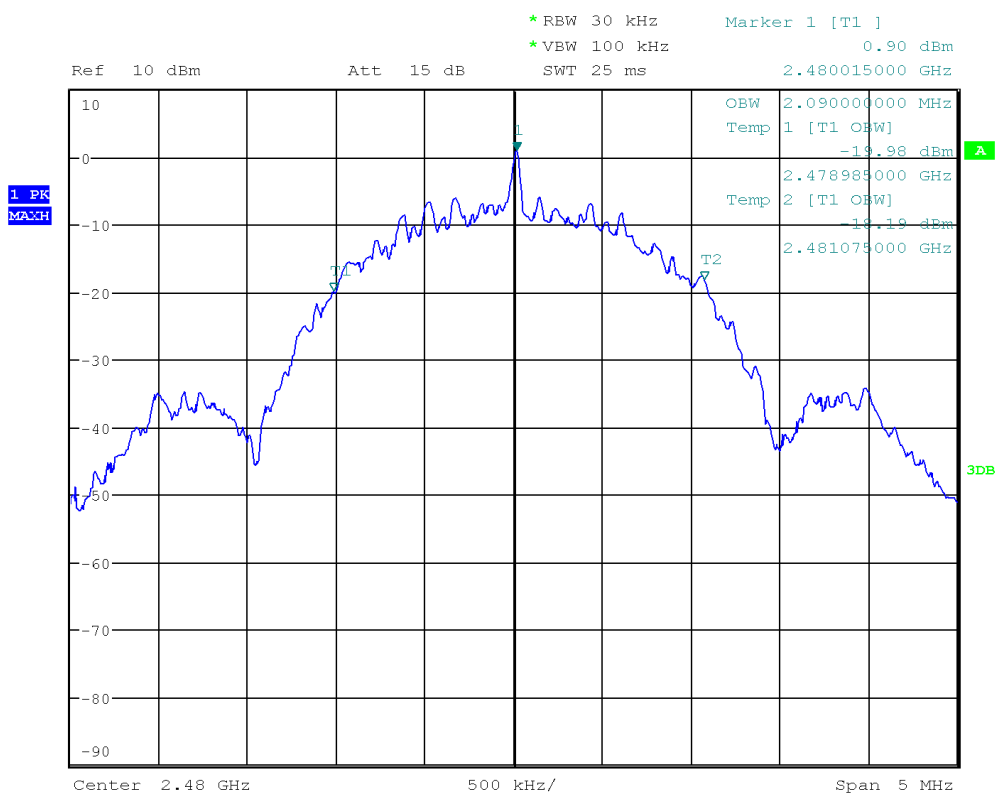
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-07-04
 Occupied Bandwidth [MHz]: 2.070



Date: 4.JUL.2022 10:20:49

Occupied Bandwidth

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: 2022-07-04
 Occupied Bandwidth [MHz]: 2.090



Date: 4.JUL.2022 10:22:07

3.2 Test Conditions and Results - 6 dB bandwidth

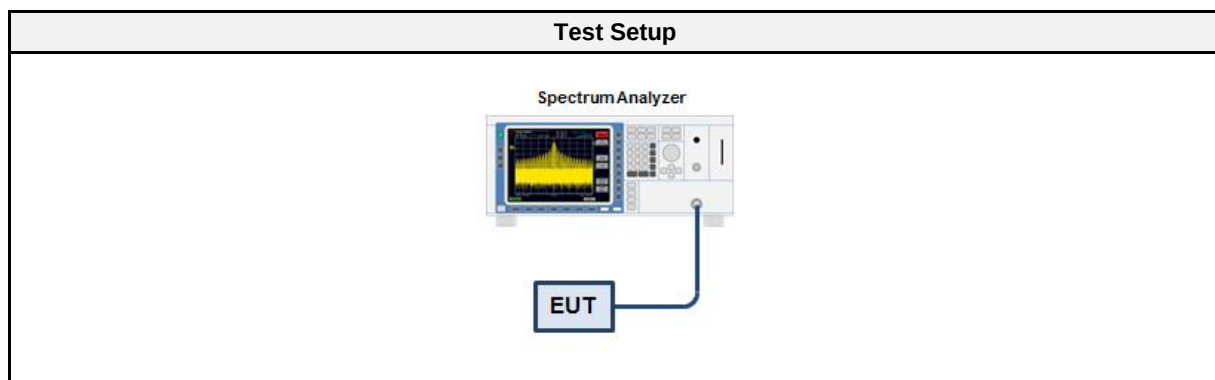
3.2.1 Information

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	Dr.-Ing. Dhamia Almozani
Date	2022-03-25 + 2022-07-04

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)	Gigalane	CAABN	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

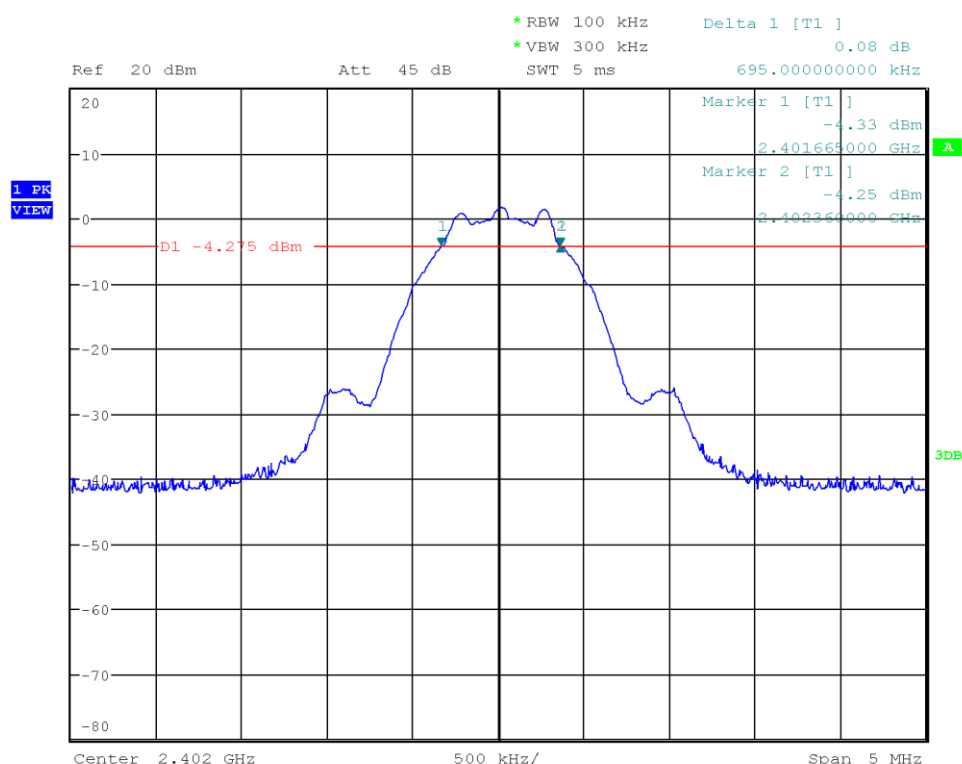
3.2.6 Results

Test Results 1 Mbps				
Mode	Frequency [MHz]	Bandwidth [kHz]	Limit [kHz]	Verdict
GFSK	2402	695	500	PASS
GFSK	2440	695	500	PASS
GFSK	2480	685	500	PASS

Test Results 2 Mbps				
Mode	Frequency [MHz]	Bandwidth [kHz]	Limit [kHz]	Verdict
GFSK	2402	1170	500	PASS
GFSK	2440	1180	500	PASS
GFSK	2480	1180	500	PASS

DTS (6 dB) Bandwidth

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Lower Frequency [MHz]: 2401.665
 Upper Frequency [MHz]: 2402.360
 6 dB Bandwidth [kHz]: 695



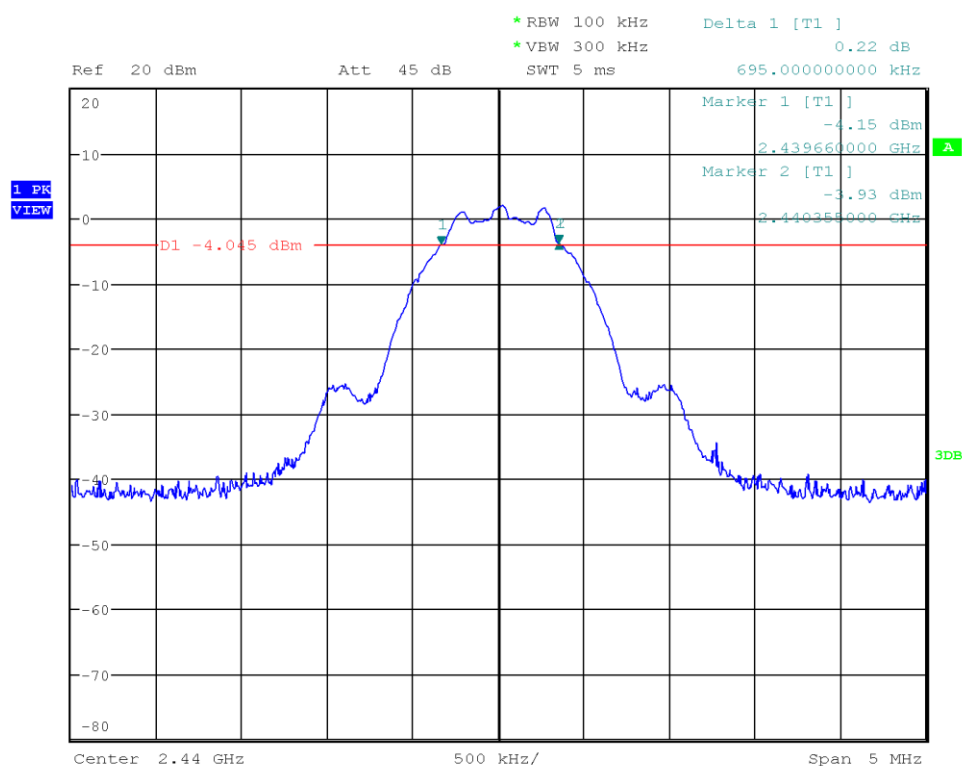
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Test Report No.: G0M-2201-1252-TFC247BL-V01

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

DTS (6 dB) Bandwidth

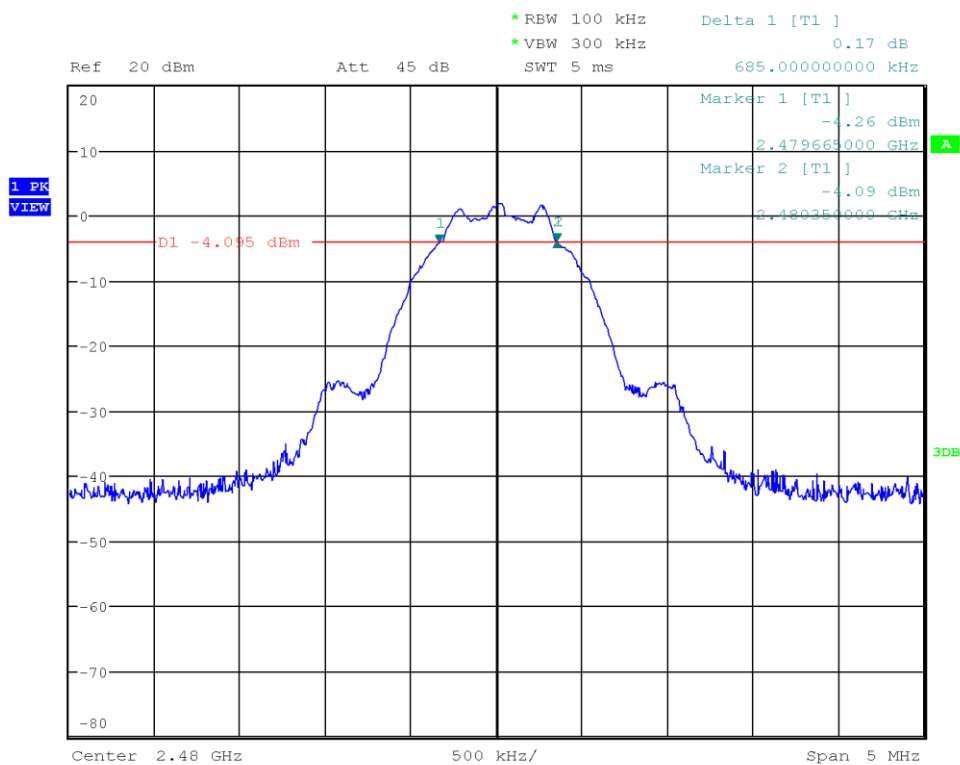
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Lower Frequency [MHz]: 2439.660
 Upper Frequency [MHz]: 2440.355
 6 dB Bandwidth [kHz]: 695



Date: 25.MAR.2022 14:17:35

DTS (6 dB) Bandwidth

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Lower Frequency [MHz]: 2479.665
 Upper Frequency [MHz]: 2480.350
 6 dB Bandwidth [kHz]: 685



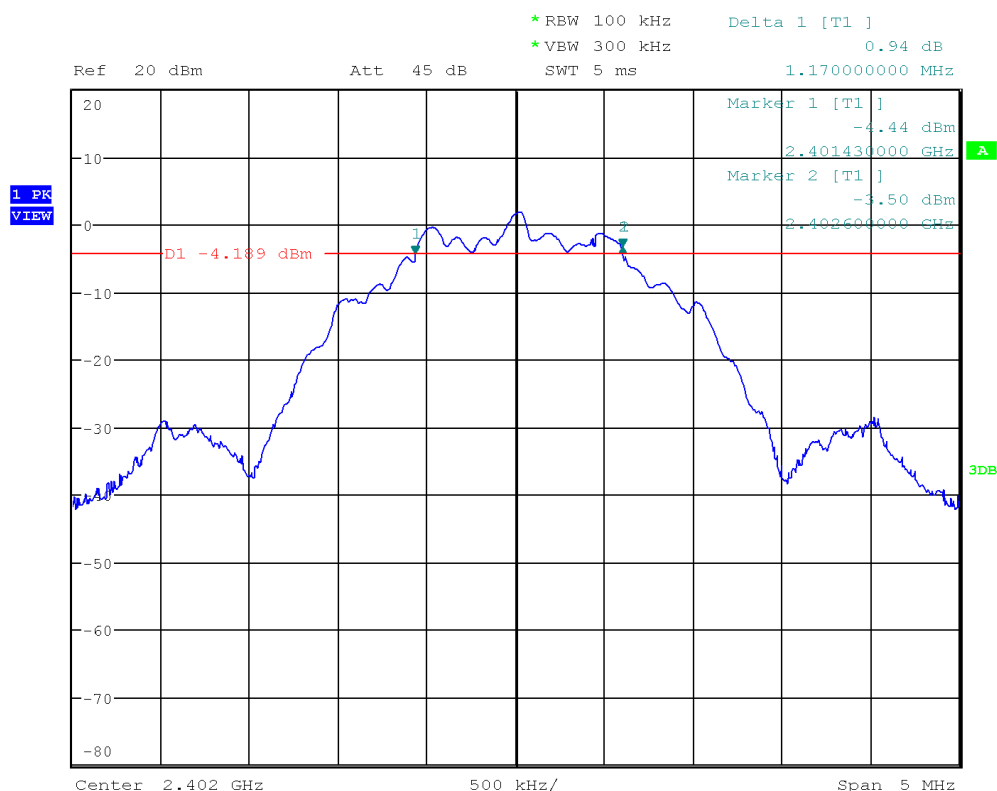
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Test Report No.: G0M-2201-1252-TFC247BL-V01

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

DTS (6 dB) Bandwidth

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: 2022-07-04
 Lower Frequency [MHz]: 2401.430
 Upper Frequency [MHz]: 2402.600
 6 dB Bandwidth [kHz]: 1170



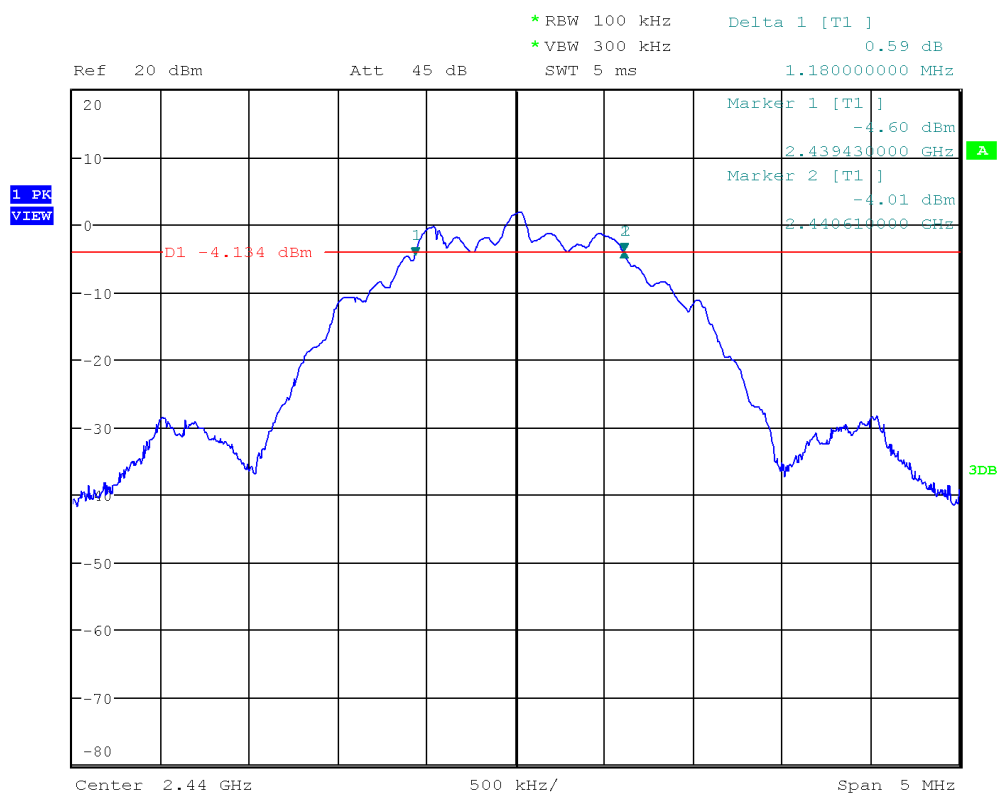
Date: 4.JUL.2022 10:24:44

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

DTS (6 dB) Bandwidth

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: 2022-07-04
 Lower Frequency [MHz]: 2439.430
 Upper Frequency [MHz]: 2440.610
 6 dB Bandwidth [kHz]: 1180



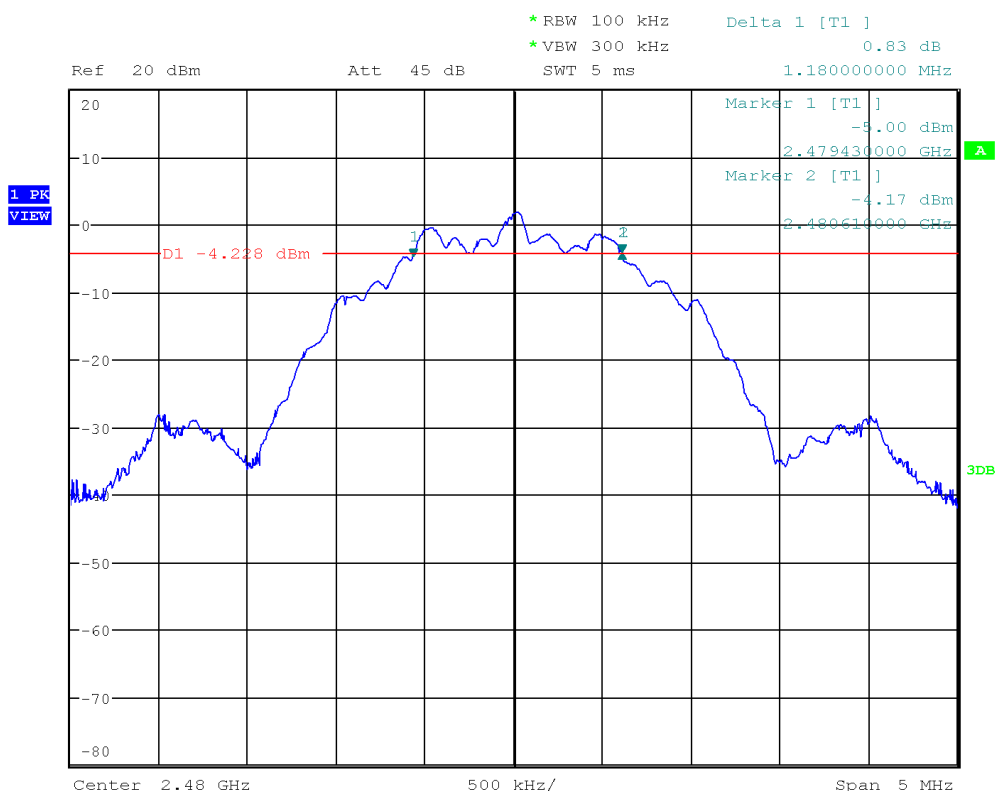
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Test Report No.: G0M-2201-1252-TFC247BL-V01

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

DTS (6 dB) Bandwidth

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: 2022-07-04
 Lower Frequency [MHz]: 2479.430
 Upper Frequency [MHz]: 2480.610
 6 dB Bandwidth [kHz]: 1180



Date: 4.JUL.2022 10:27:12

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

3.3 Test Conditions and Results - Maximum peak conducted output power

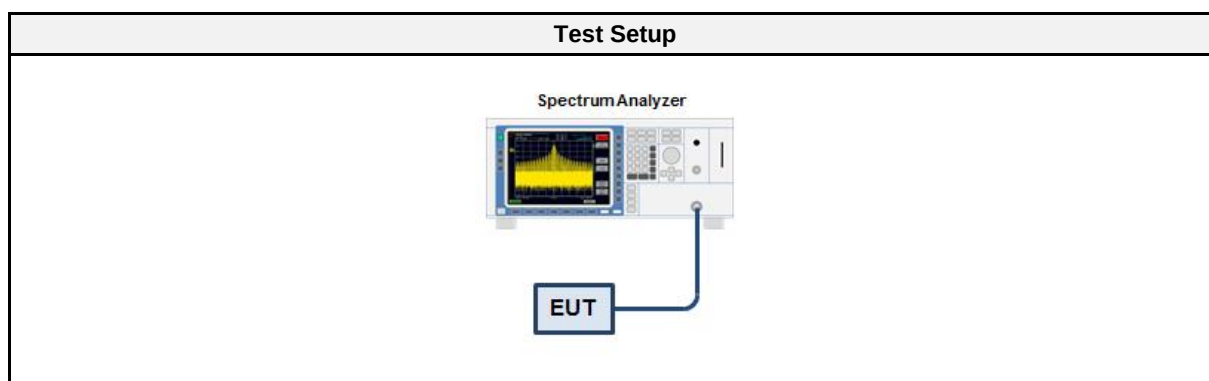
3.3.1 Information

Test Information	
Reference	FCC § 15.247(b); ISSED RSS-247, Issue 2 (section 5.4)
Measurement Method	ANSI C63.10 11.9.1
Measurement Uncertainty	± 2.86 dB
Operator	Dr.-Ing. Dhamia Almozani
Date	2022-03-25 + 2022-07-04

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)	Gigalane	CAABN	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 ≥ 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

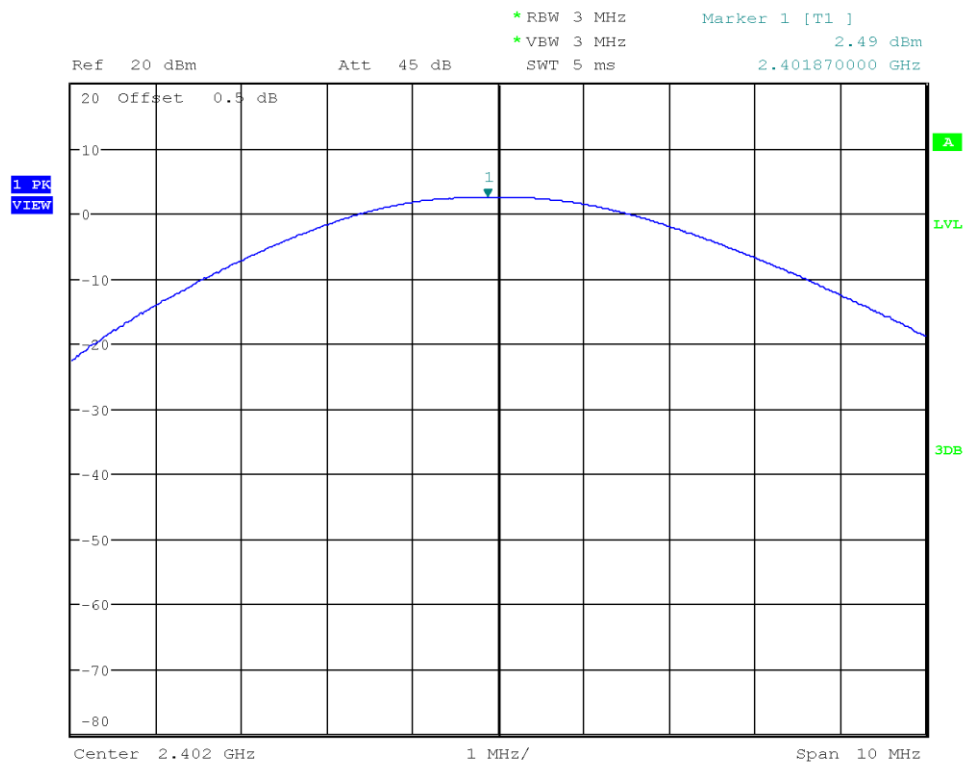
3.3.6 Results3

Test Results 1 Mbps				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	2.493	0.0018	1.0	PASS
2440	2.742	0.0019	1.0	PASS
2480	2.675	0.0019	1.0	PASS

Test Results 2 Mbps				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	2.671	0.0018	1.0	PASS
2440	2.761	0.0019	1.0	PASS
2480	2.686	0.0019	1.0	PASS

Peak Conducted Output Power

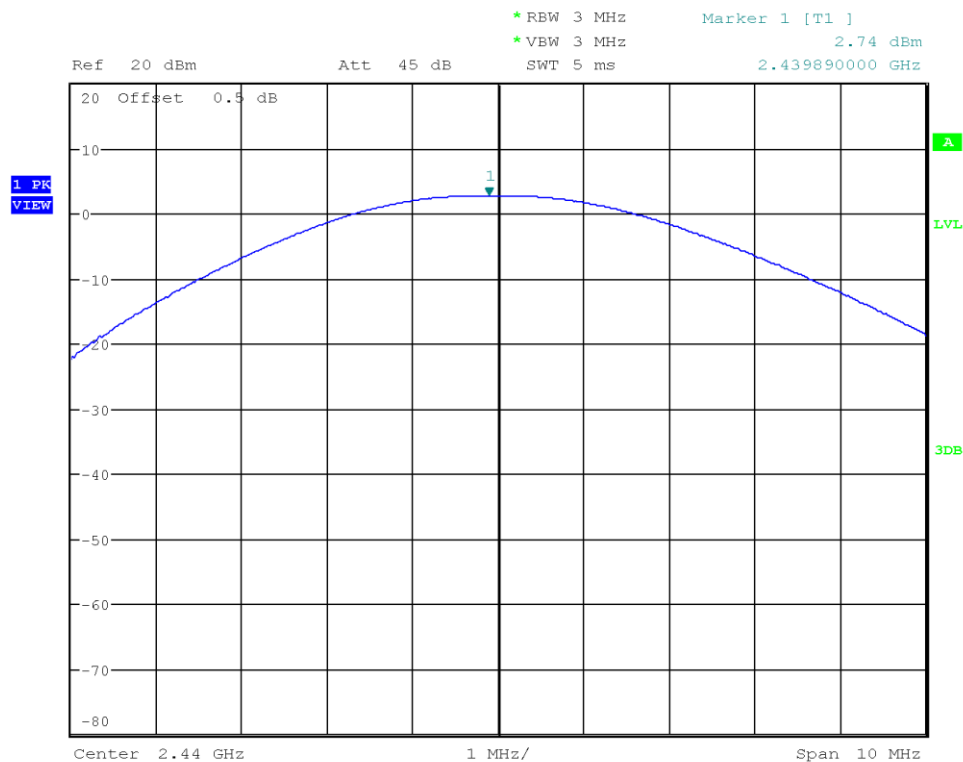
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Peak Power [dBm]: 2.493
 Peak Power [W]: 0.0018



Date: 25.MAR.2022 14:23:23

Peak Conducted Output Power

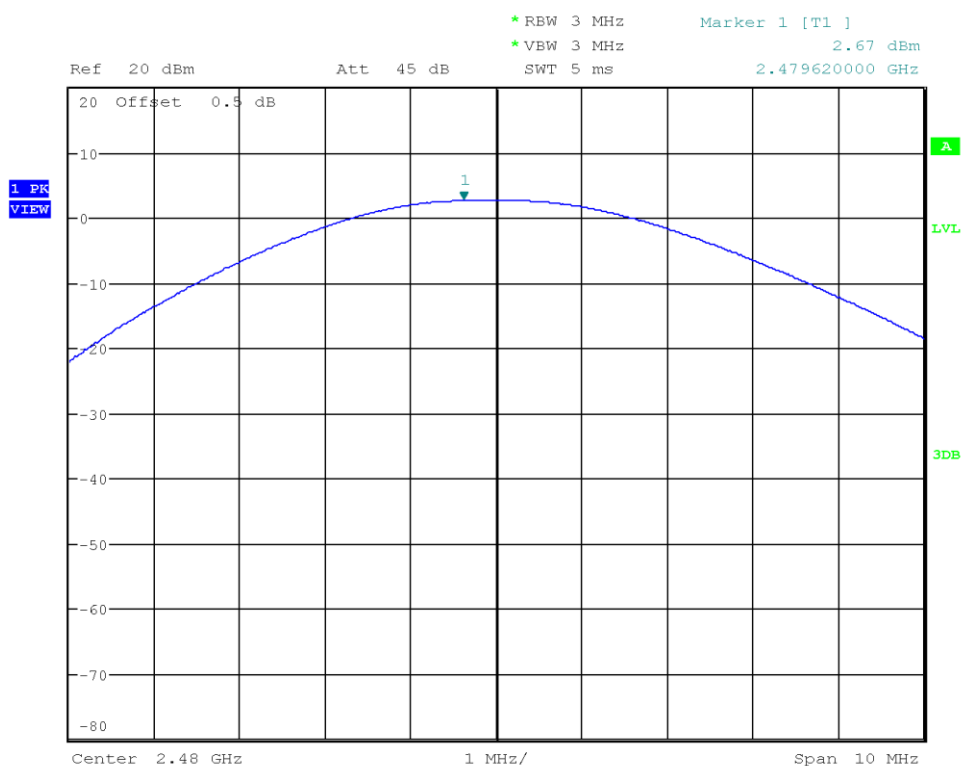
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Peak Power [dBm]: 2.742
 Peak Power [W]: 0.0019



Date: 25.MAR.2022 14:24:39

Peak Conducted Output Power

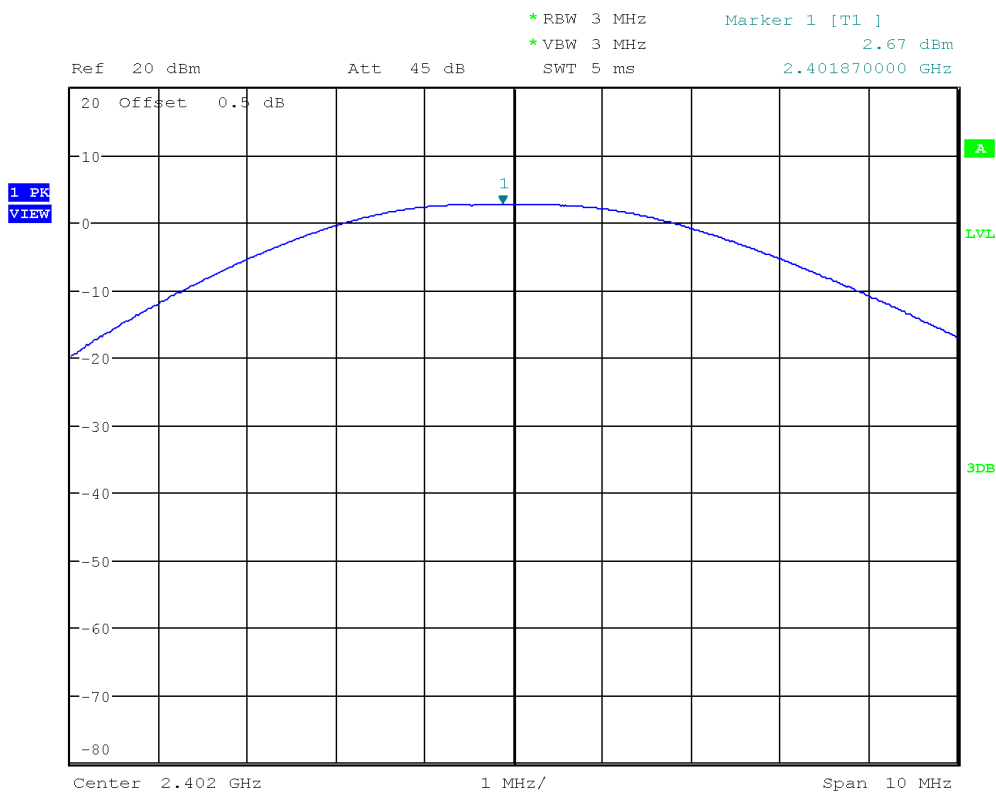
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Peak Power [dBm]: 2.675
 Peak Power [W]: 0.0019



Date: 25.MAR.2022 14:25:52

Peak Conducted Output Power

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: 2022-07-04
 Note: 2 Mbps
 Peak Power [dBm]: 2.671
 Peak Power [W]: 0.0018



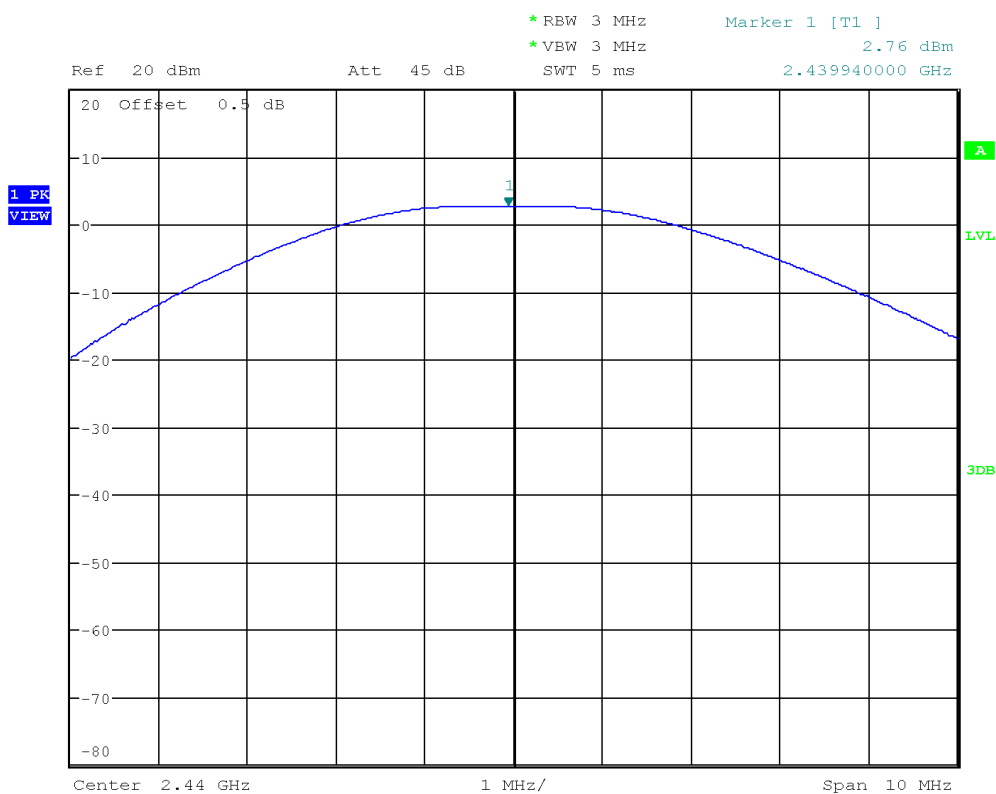
Date: 4.JUL.2022 10:31:01

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Peak Conducted Output Power

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: 2022-07-04
 Note: 2 Mbps
 Peak Power [dBm]: 2.761
 Peak Power [W]: 0.0019



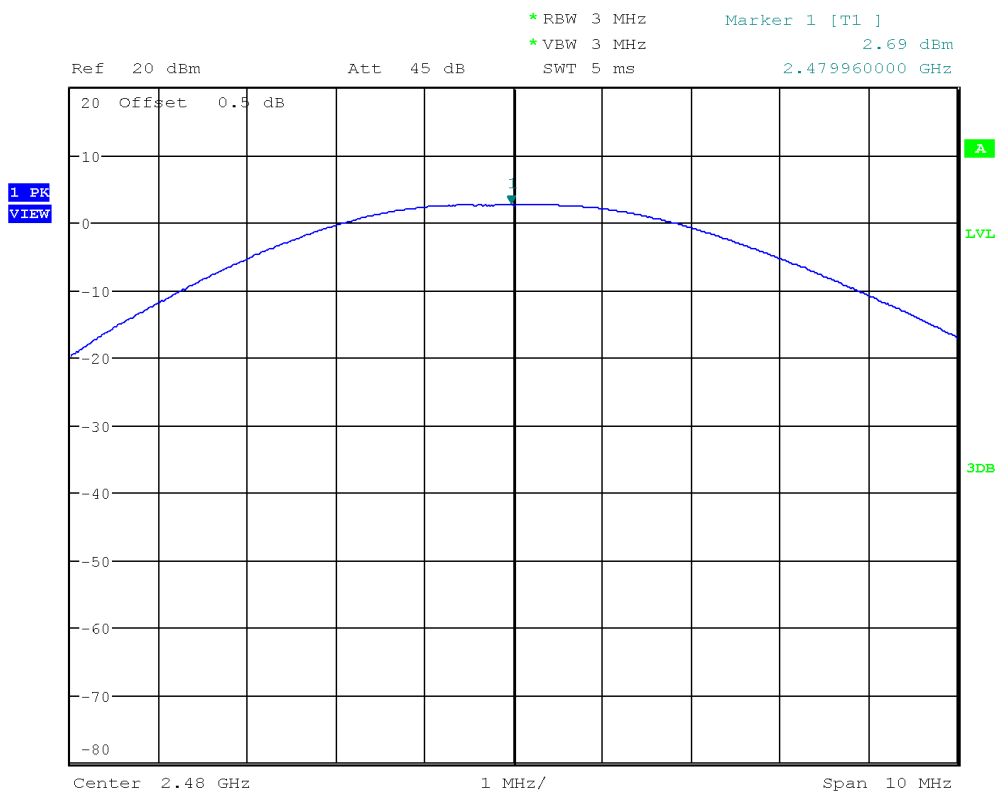
Date: 4.JUL.2022 10:34:03

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Peak Conducted Output Power

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: 2022-07-04
 Note: 2 Mbps
 Peak Power [dBm]: 2.686
 Peak Power [W]: 0.0019



Date: 4.JUL.2022 10:34:47

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

3.4 Test Conditions and Results - Power spectral density

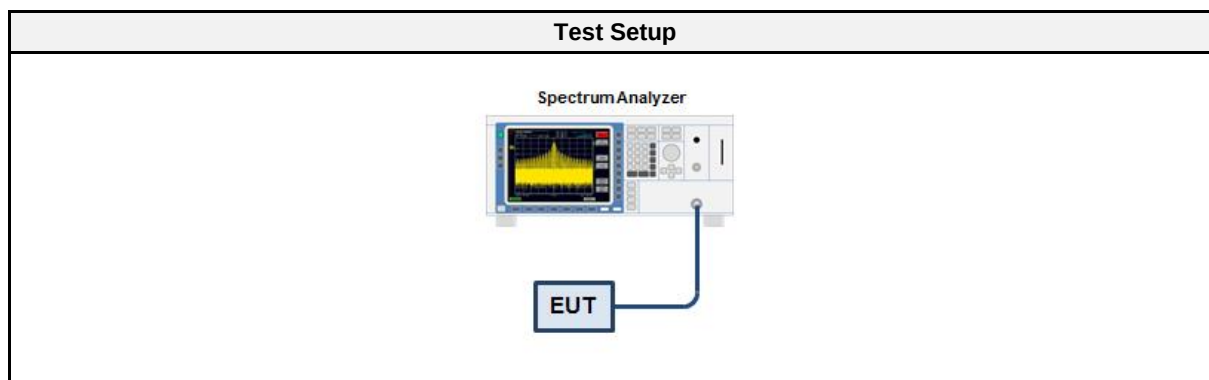
3.4.1 Information

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	Dr.-Ing. Dhamia Almozani
Date	2022-03-25 + 2022-07-04

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)	Gigalane	CAABN	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

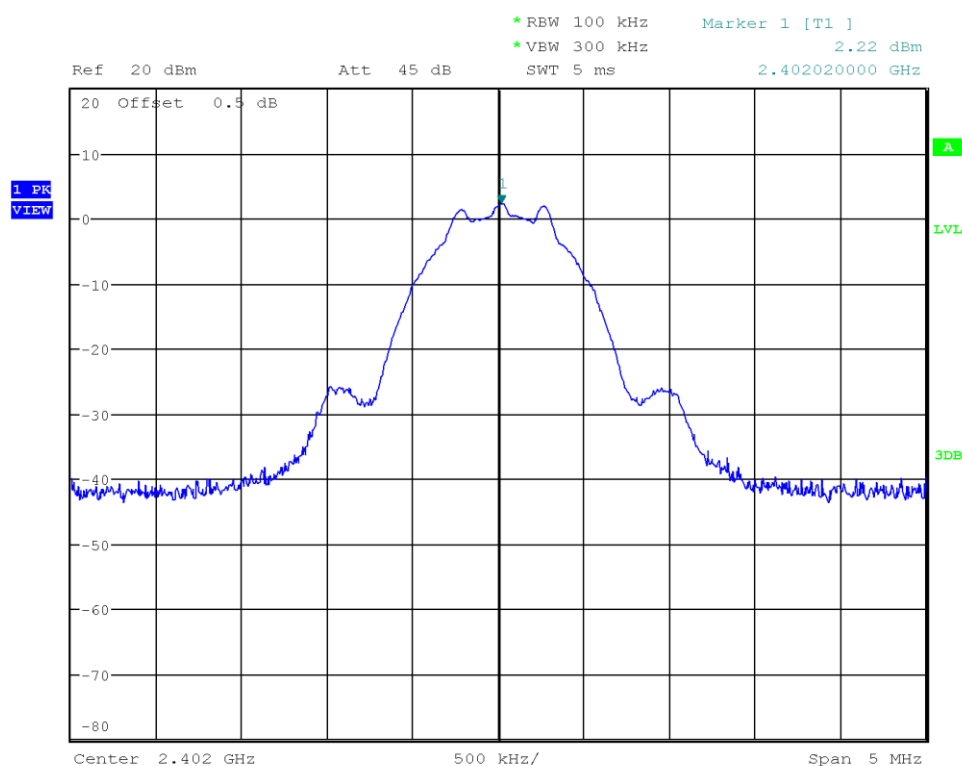
3.4.6 Results

Test Results 1 Mbps			
Channel [MHz]	PSD [dBm/RBW]	Limit [dBm/3kHz]	Verdict
2402	2.225	8.0	PASS
2440	2.481	8.0	PASS
2480	2.421	8.0	PASS
RBW = 100 kHz			

Test Results 2 Mbps			
Channel [MHz]	PSD [dBm/RBW]	Limit [dBm/3kHz]	Verdict
2402	2.401	8.0	PASS
2440	2.426	8.0	PASS
2480	2.359	8.0	PASS
RBW = 100 kHz			

Peak Power Spectral Density

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: 1 Mbps, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Peak Frequency [MHz]: 2402.020
 Spectral Density [dBm/RBW]: 2.225
 Resolution Bandwidth [kHz]: 100 kHz



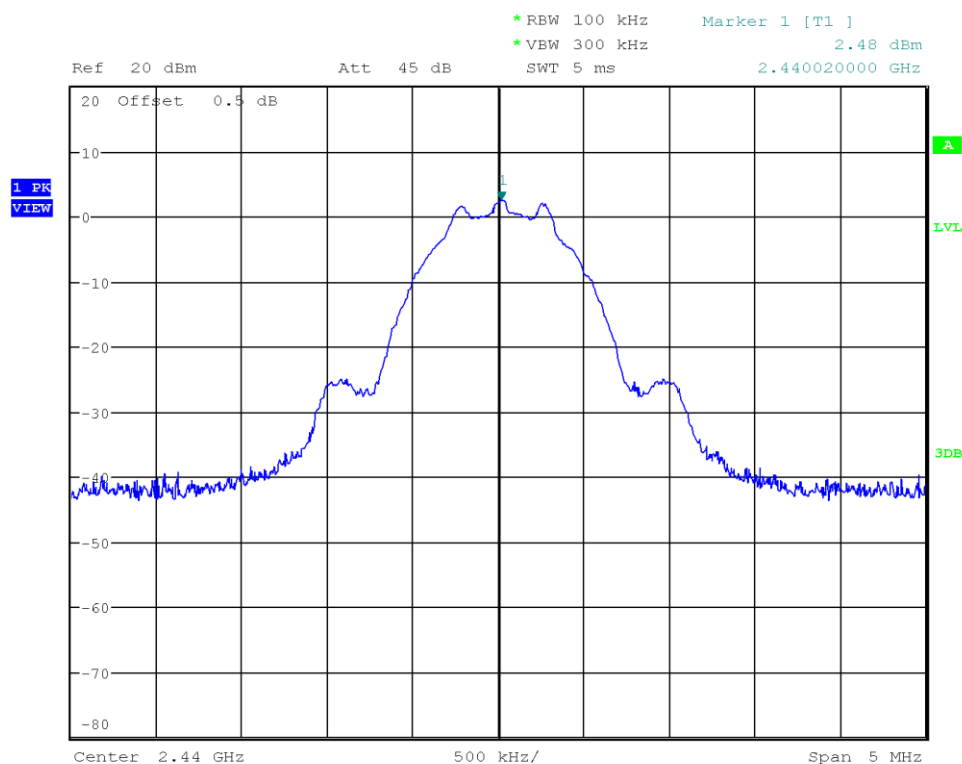
Date: 25.MAR.2022 14:29:06

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Peak Power Spectral Density

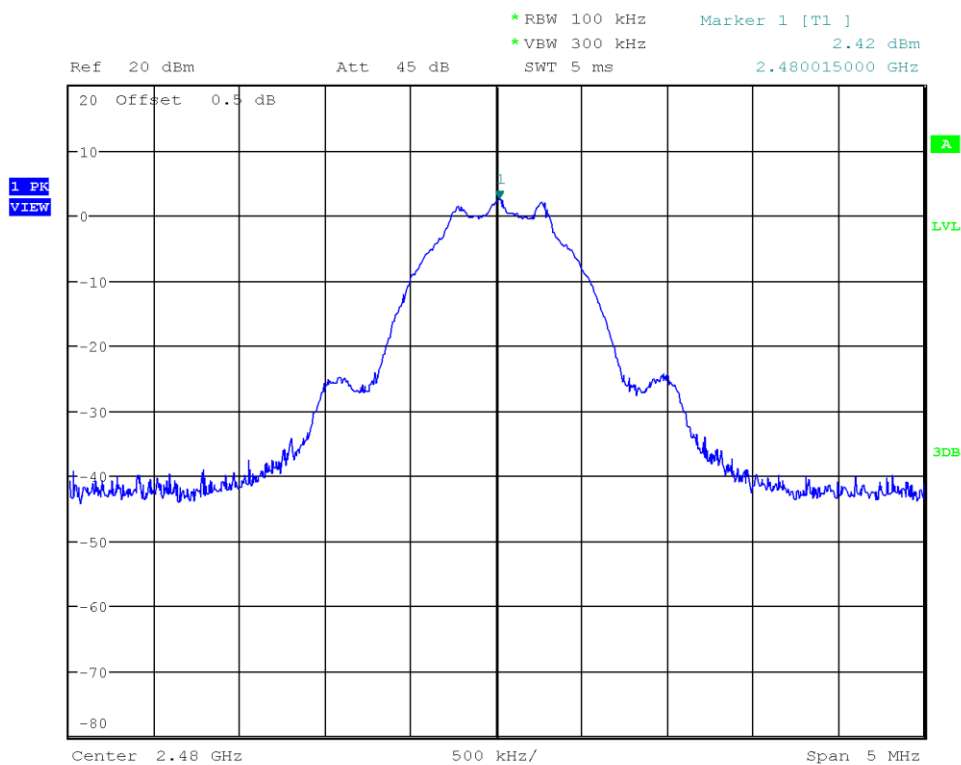
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: 1 Mbps, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Peak Frequency [MHz]: 2440.020
 Spectral Density [dBm/RBW]: 2.481
 Resolution Bandwidth [kHz]: 100 kHz



Date: 25.MAR.2022 14:30:17

Peak Power Spectral Density

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: 1 Mbps, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Peak Frequency [MHz]: 2480.015
 Spectral Density [dBm/RBW]: 2.421
 Resolution Bandwidth [kHz]: 100 kHz



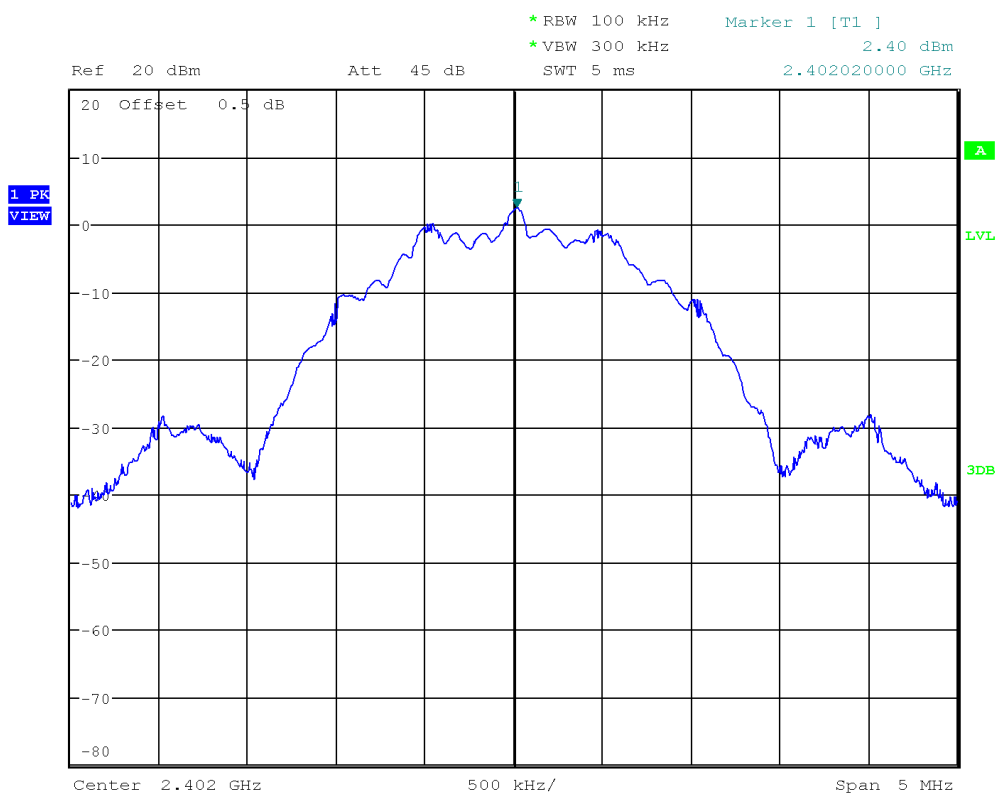
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Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Peak Power Spectral Density

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: 2 Mbps, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-07-04
 Peak Frequency [MHz]: 2402.020
 Spectral Density [dBm/RBW]: 2.401
 Resolution Bandwidth [kHz]: 100 kHz



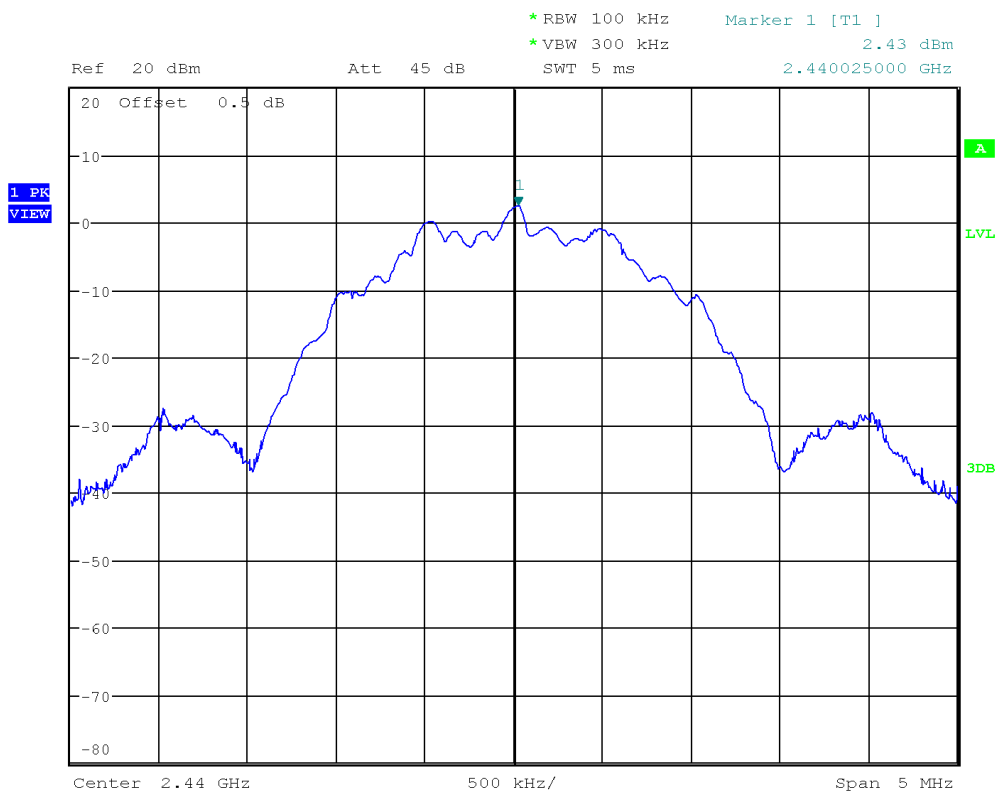
Date: 4.JUL.2022 10:39:26

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Peak Power Spectral Density

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: 2 Mbps, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-07-04
 Peak Frequency [MHz]: 2440.025
 Spectral Density [dBm/RBW]: 2.426
 Resolution Bandwidth [kHz]: 100 kHz



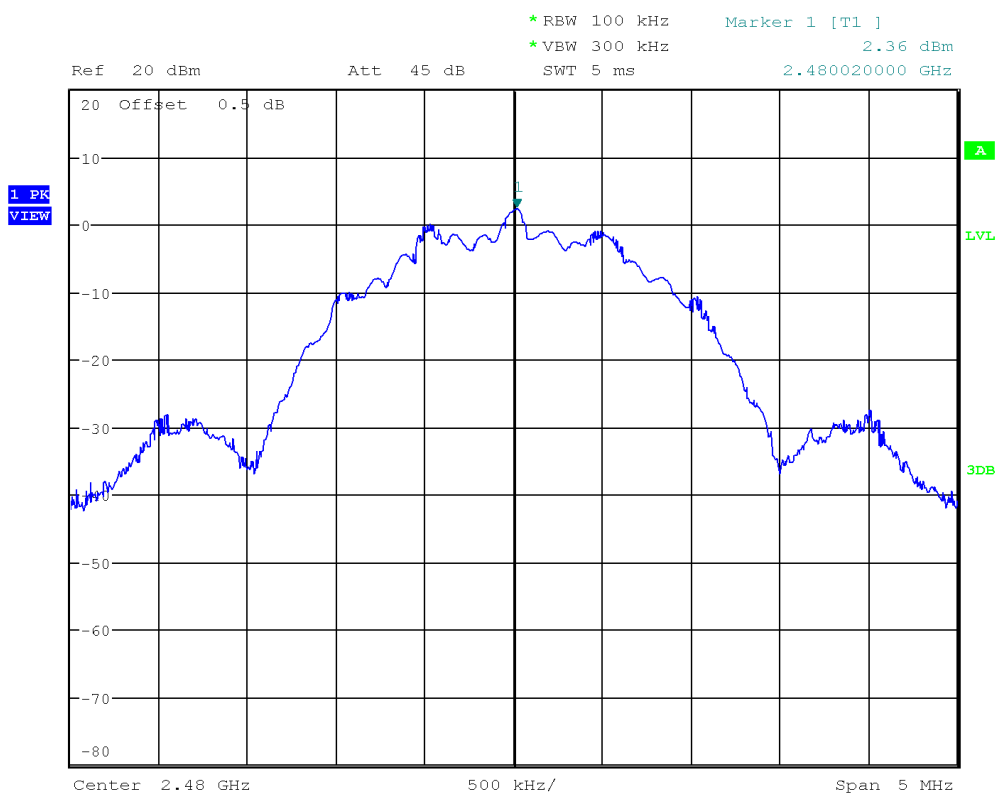
Date: 4.JUL.2022 10:40:41

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Peak Power Spectral Density

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: 2 Mbps, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-07-04
 Peak Frequency [MHz]: 2480.020
 Spectral Density [dBm/RBW]: 2.359
 Resolution Bandwidth [kHz]: 100 kHz



Date: 4.JUL.2022 10:41:27

Test Report No.: G0M-2201-1252-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

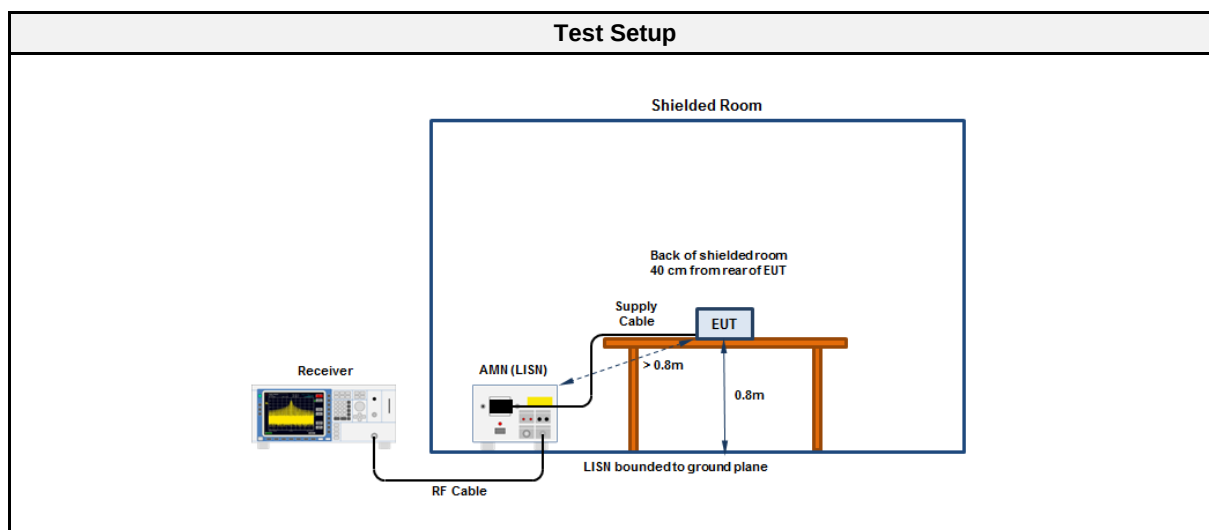
Test Information	
Reference	FCC § 15.207; ISED RSS-247, Issue 2 (section 3.1)
Measurement Method	ANSI C63.10 6.2
Measurement Uncertainty	± 3.82 dB
Operator	Odai Qawasmeh
Date	2022-05-16 + 2022-07-14
Comment	The AC/DC-Adapter 2 was used to perform the powerline measurements.

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

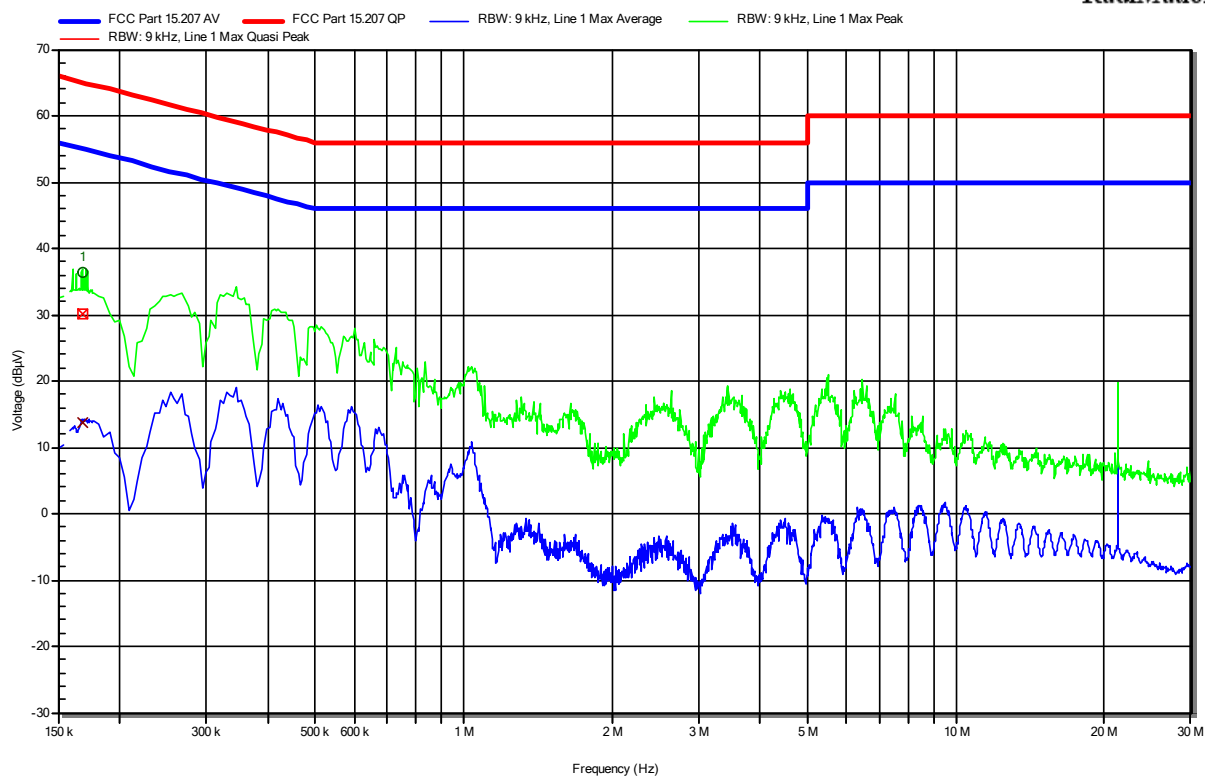
Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESR7	EF00943	2021-08	2022-08
Pulse Limiter	R&S	ESH3-Z2	EF01222	2021-07	2022-07
LISN	Schwarzbeck	NSLK 8127 RC	EF01592	2021-07	2022-07

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127 RC L1
 Operational Mode: BLE, 1 Mbps, 2402 MHz, PRBS9_193 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:

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RadiMation



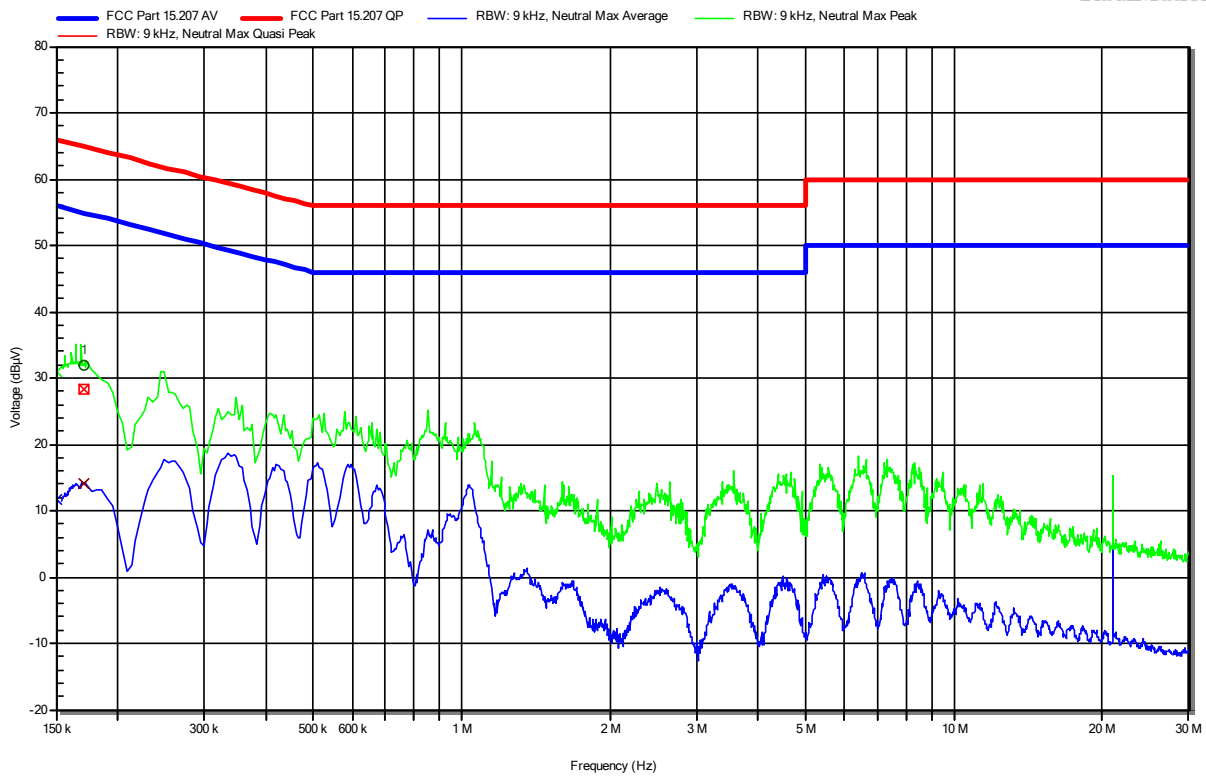
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	168 kHz	30.07 dBμV	65.06 dBμV	-34.99 dB	Pass	Line 1
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	168 kHz	13.72 dBμV	55.06 dBμV	-41.34 dB	Pass	Line 1

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127
 Operational Mode: BLE, 1 Mbps, 2402 MHz, PRBS9_193 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:

Index 27

RadiMation



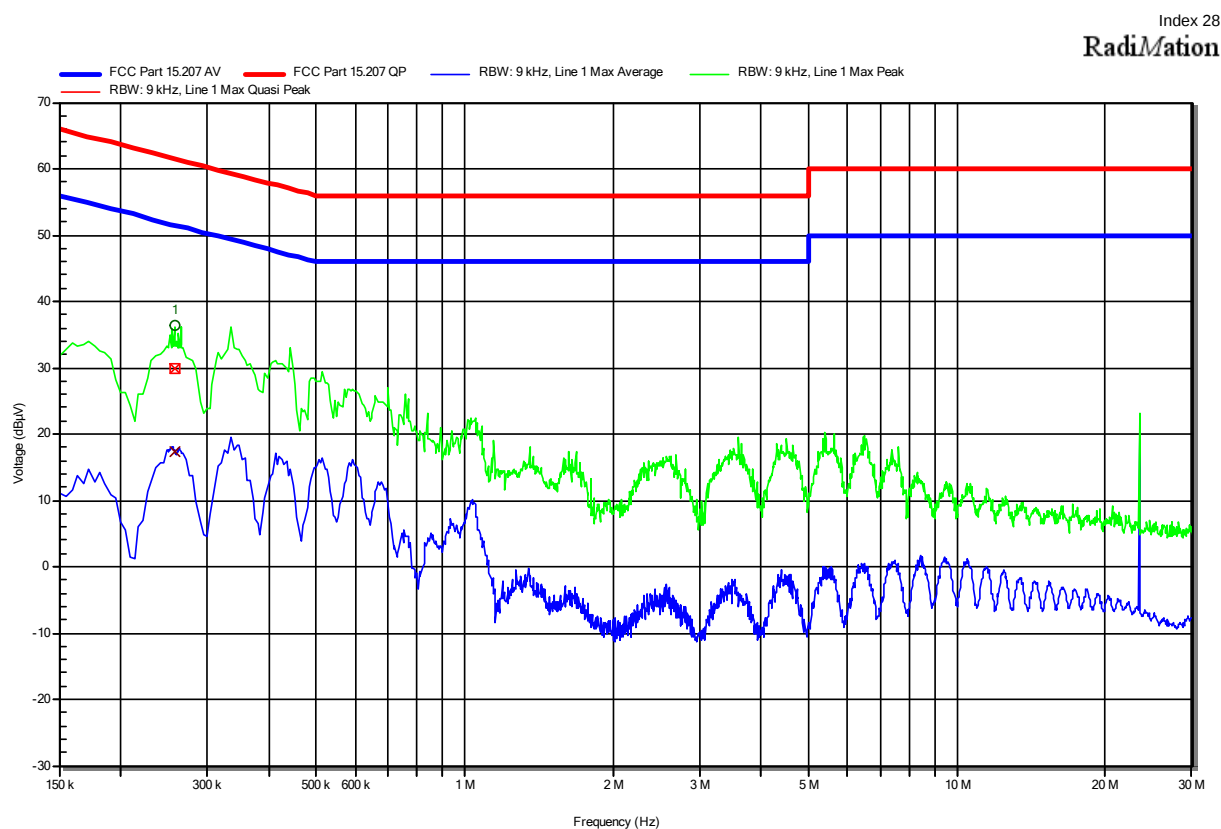
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	170.7 kHz	28.22 dBµV	64.93 dBµV	-36.7 dB	Pass	Neutral
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	170.7 kHz	14.1 dBµV	54.93 dBµV	-40.82 dB	Pass	Neutral

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127 RC L1
 Operational Mode: BLE, 1 Mbps, 2440 MHz, PRBS9_193 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:



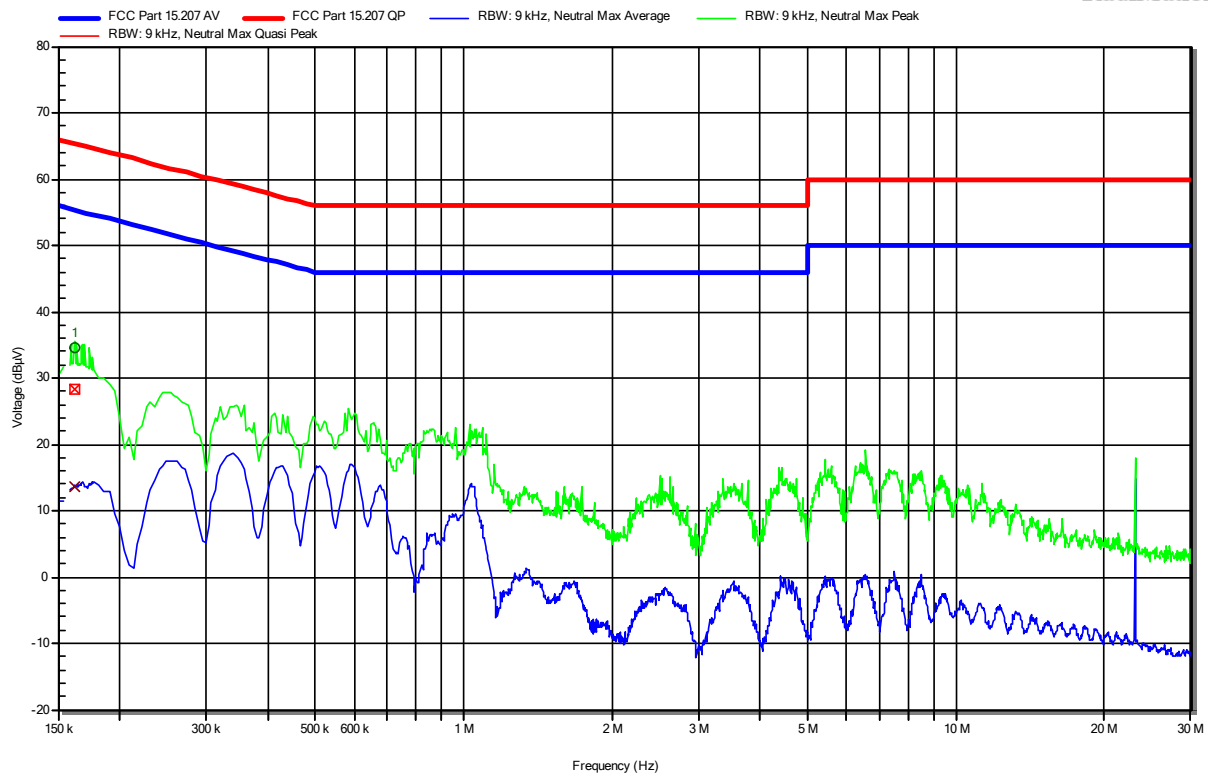
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	258 kHz	29.86 dBµV	61.5 dBµV	-31.64 dB	Pass	Line 1
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	258 kHz	17.46 dBµV	51.5 dBµV	-34.04 dB	Pass	Line 1

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127
 Operational Mode: BLE, 1 Mbps, 2440 MHz, PRBS9_193 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:

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RadiMation



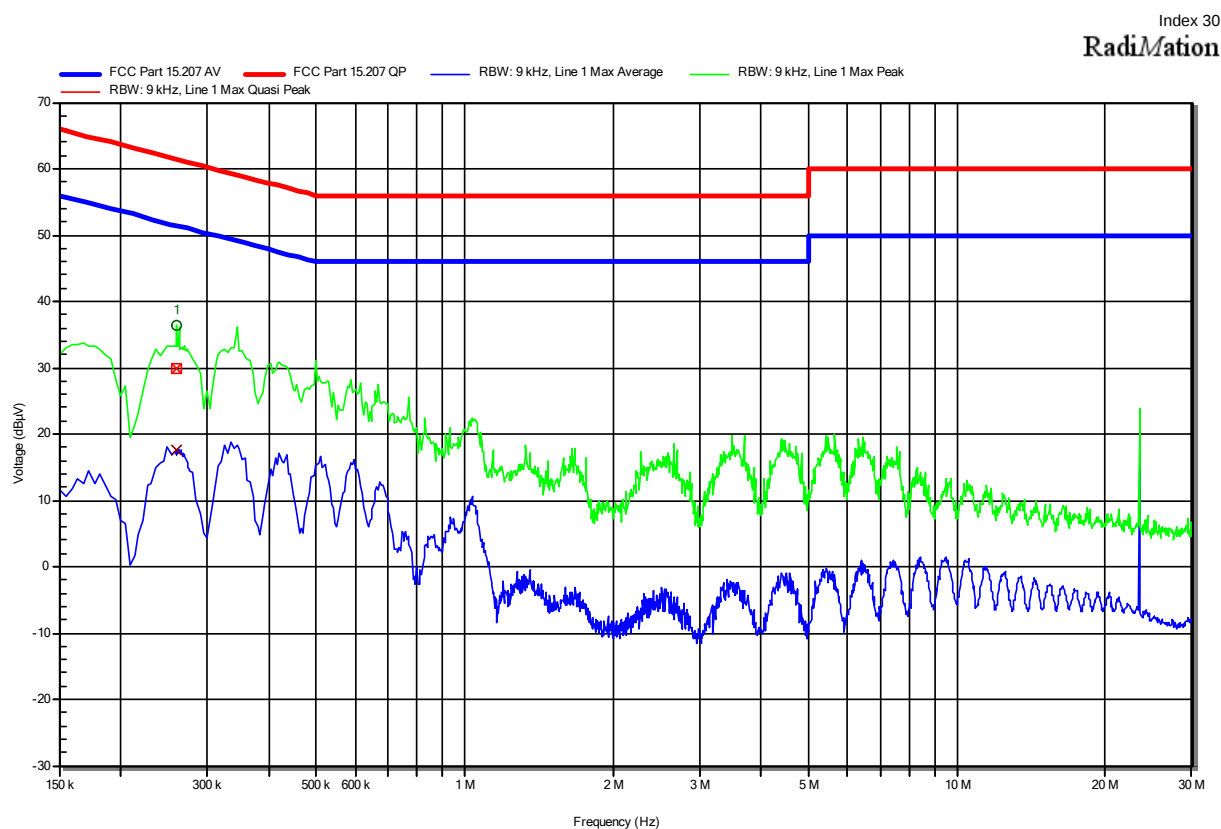
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	162.15 kHz	28.35 dBμV	65.35 dBμV	-37.01 dB	Pass	Neutral
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	162.15 kHz	13.51 dBμV	55.35 dBμV	-41.84 dB	Pass	Neutral

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127 RC L1
 Operational Mode: BLE, 1 Mbps, 2480 MHz, PRBS9_193 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:



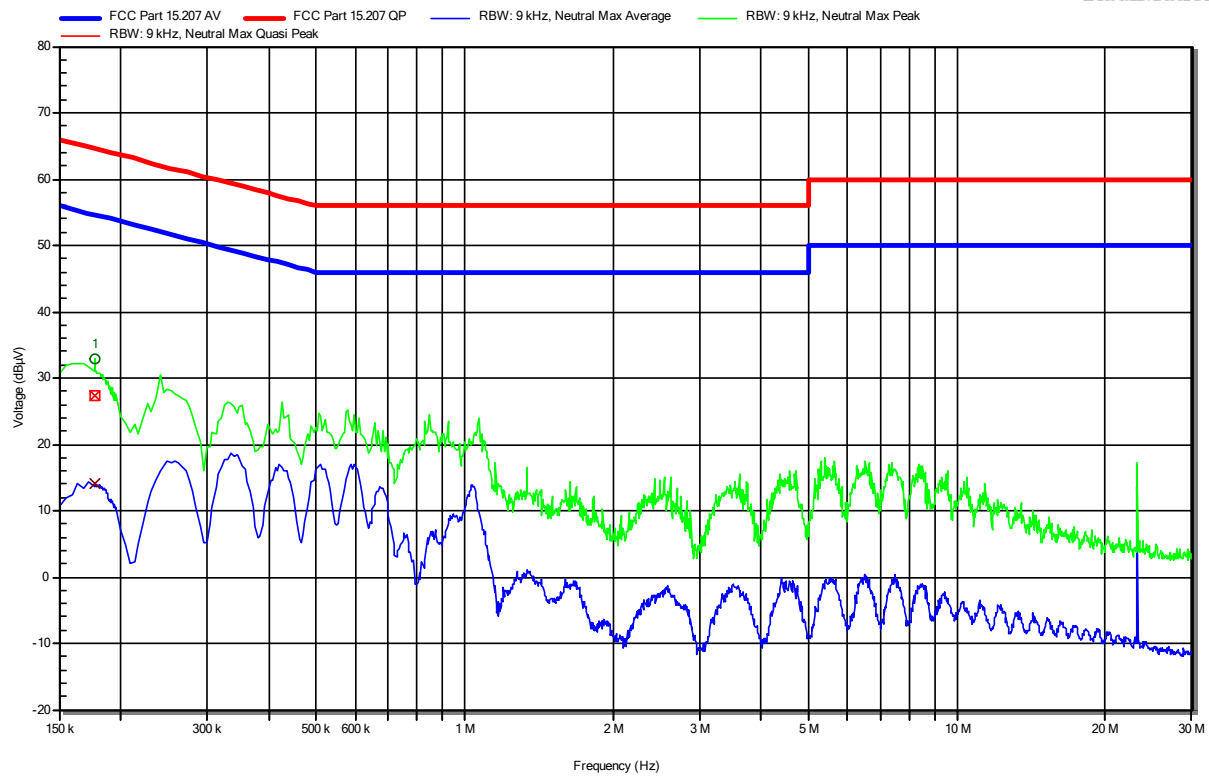
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	259.8 kHz	29.84 dBµV	61.44 dBµV	-31.59 dB	Pass	Line 1
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	259.8 kHz	17.48 dBµV	51.44 dBµV	-33.95 dB	Pass	Line 1

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127
 Operational Mode: BLE, 1 Mbps, 2480 MHz, PRBS9_193 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:

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RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	177.45 kHz	27.41 dBμV	64.6 dBμV	-37.2 dB	Pass	Neutral
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	177.45 kHz	14 dBμV	54.6 dBμV	-40.6 dB	Pass	Neutral

Test Report No.: G0M-2201-1252-TFC247BL-V01

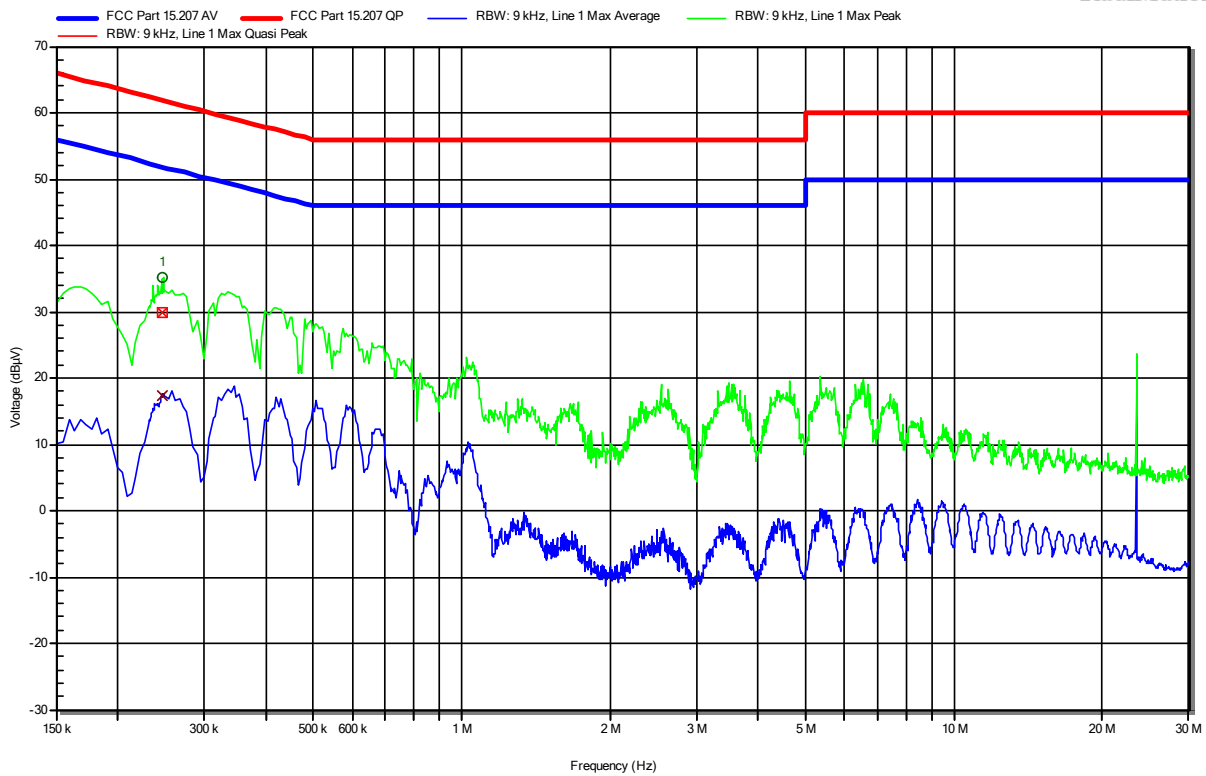
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted emissions at the mains power port according to RSS-247, RSS-Gen Issue 5

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127 RC L1
 Operational Mode: BLE, 2440 MHz
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:

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RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	247.65 kHz	29.77 dBµV	61.84 dBµV	-32.07 dB	Pass	Line 1
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	247.65 kHz	17.24 dBµV	51.84 dBµV	-34.6 dB	Pass	Line 1

Test Report No.: G0M-2201-1252-TFC247BL-V01

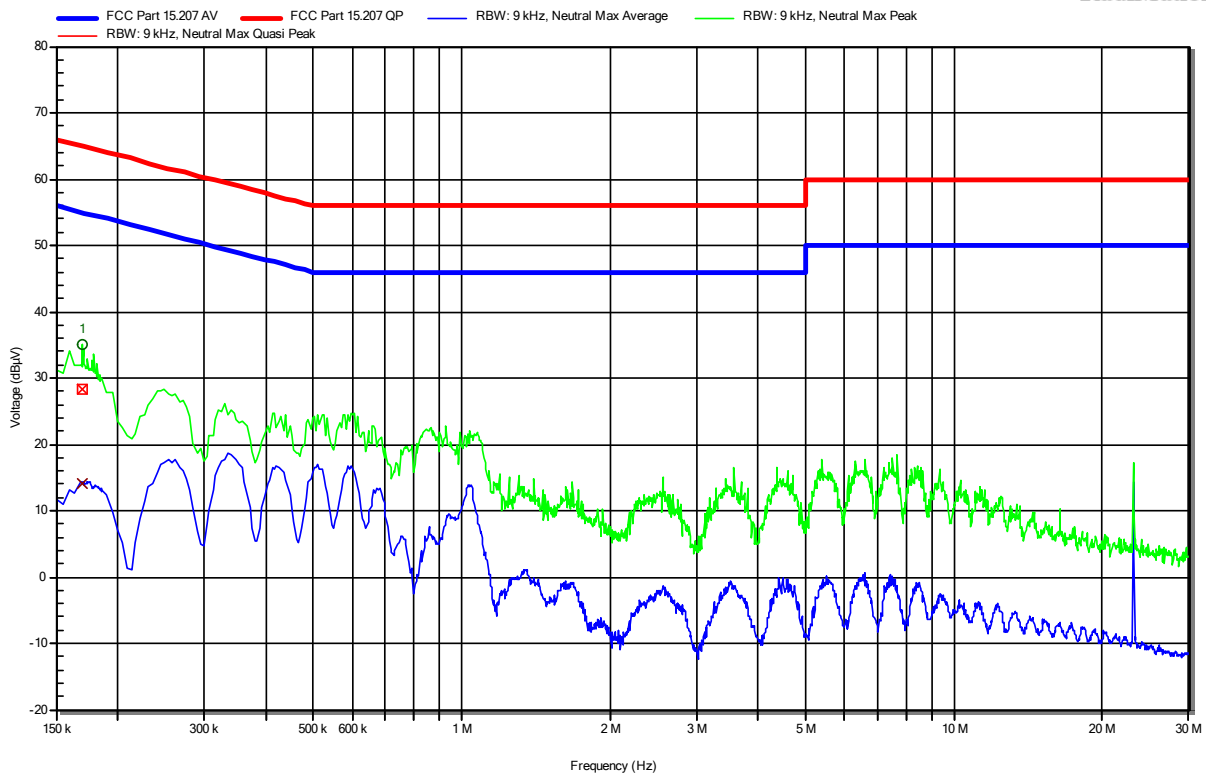
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted emissions at the mains power port according to RSS-247, RSS-Gen Issue 5

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127
 Operational Mode: BLE, 2440 MHz
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:

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RadiMation



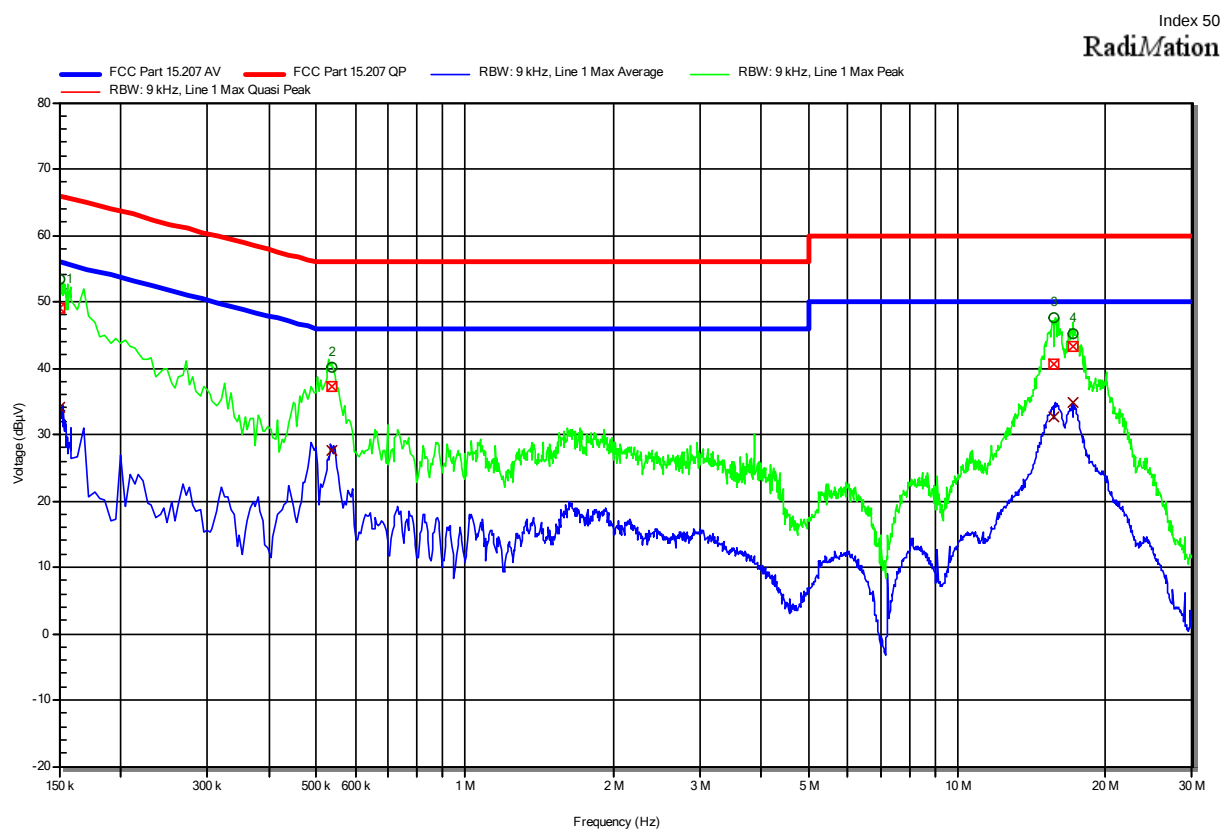
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	169.8 kHz	28.19 dBμV	64.97 dBμV	-36.78 dB	Pass	Neutral
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	169.8 kHz	14.12 dBμV	54.97 dBμV	-40.85 dB	Pass	Neutral

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-07-14
 Operating Conditions: ambient temperature: 21 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127 RC L1
 Operational Mode: BLE, 2 Mbps, 2402 MHz, PRBS9_239 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	150.45 kHz	48.96 dBμV	65.98 dBμV	-17.01 dB	Pass	Line 1
2	539.25 kHz	37.13 dBμV	56 dBμV	-18.87 dB	Pass	Line 1
3	15.68 MHz	40.63 dBμV	60 dBμV	-19.37 dB	Pass	Line 1
4	17.129 MHz	43.14 dBμV	60 dBμV	-16.86 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	150.45 kHz	34.05 dBμV	55.98 dBμV	-21.93 dB	Pass	Line 1
2	539.25 kHz	27.65 dBμV	46 dBμV	-18.35 dB	Pass	Line 1
3	15.68 MHz	32.58 dBμV	50 dBμV	-17.42 dB	Pass	Line 1
4	17.129 MHz	34.81 dBμV	50 dBμV	-15.19 dB	Pass	Line 1

Test Report No.: G0M-2201-1252-TFC247BL-V01

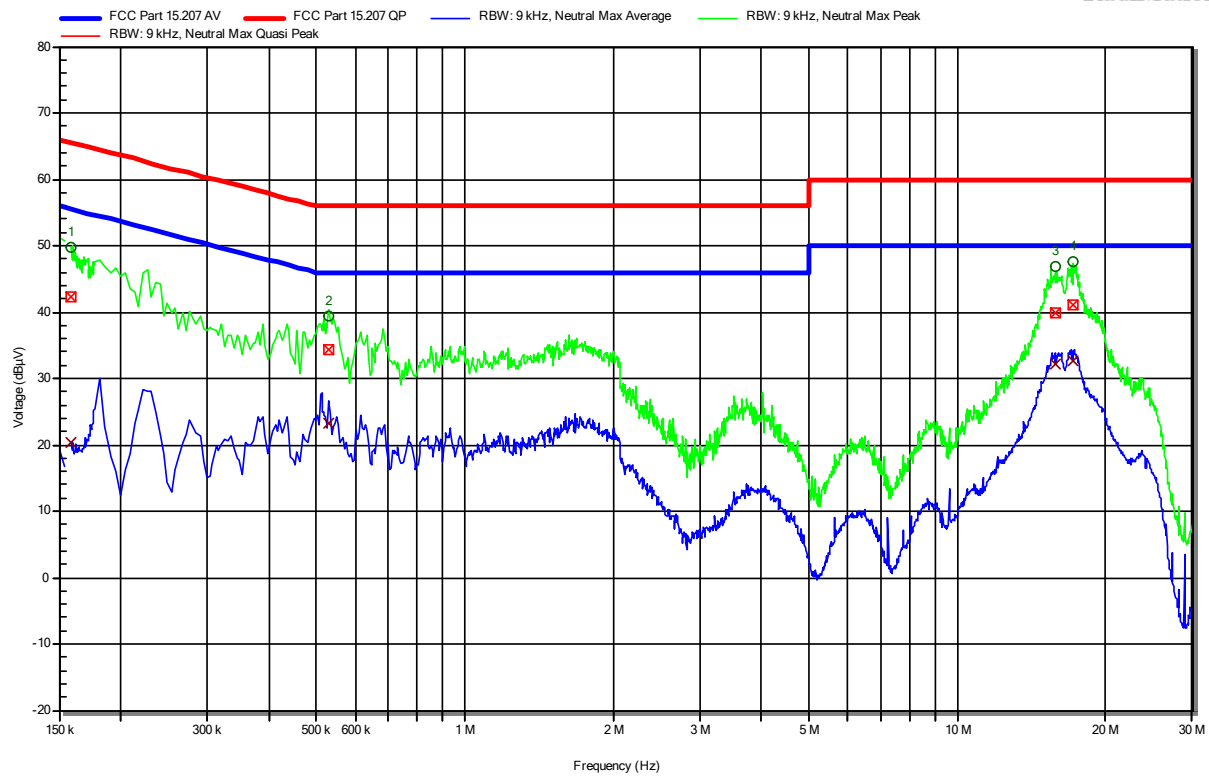
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-07-14
 Operating Conditions: ambient temperature: 21 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127
 Operational Mode: BLE, 2 Mbps, 2402 MHz, PRBS9_239 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:

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RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	159 kHz	42.35 dBµV	65.52 dBµV	-23.17 dB	Pass	Neutral
2	528 kHz	34.37 dBµV	56 dBµV	-21.63 dB	Pass	Neutral
3	15.837 MHz	39.8 dBµV	60 dBµV	-20.2 dB	Pass	Neutral
4	17.115 MHz	41.16 dBµV	60 dBµV	-18.84 dB	Pass	Neutral

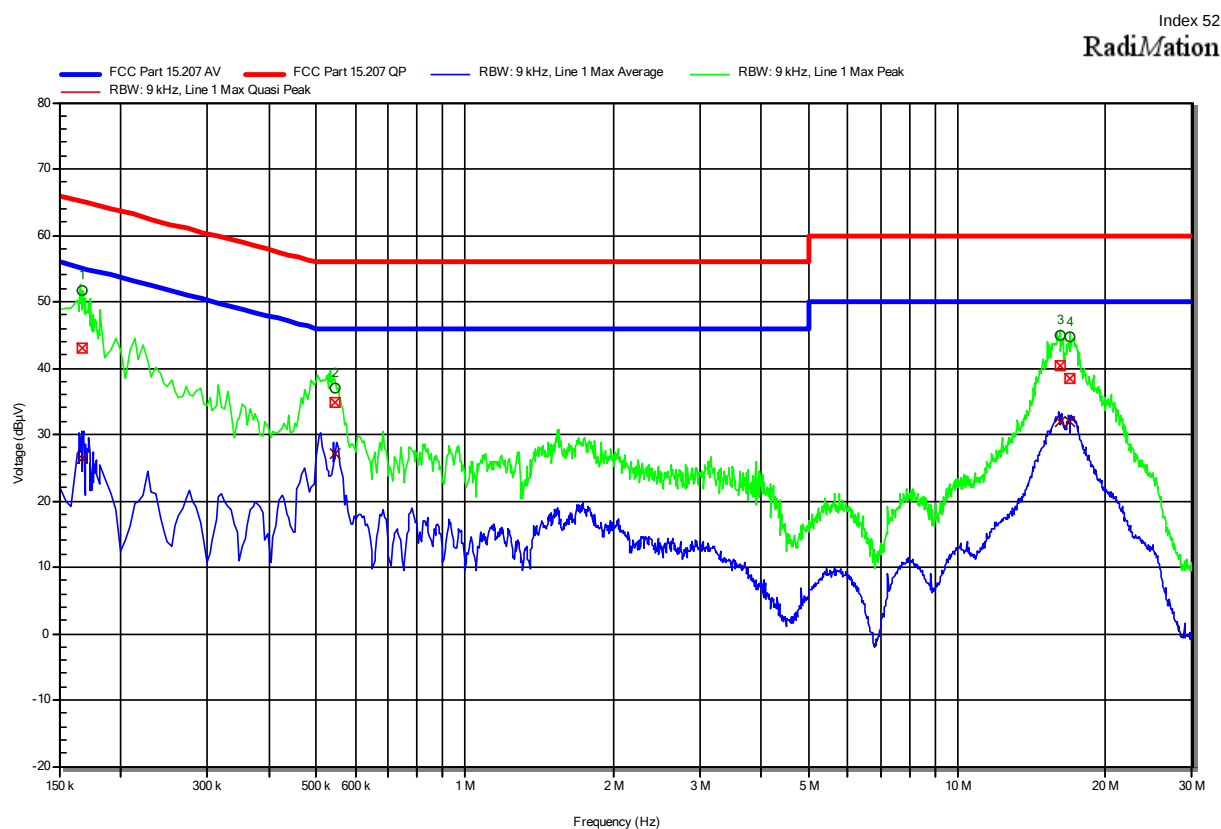
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	159 kHz	20.27 dBµV	55.52 dBµV	-35.25 dB	Pass	Neutral
2	528 kHz	23.35 dBµV	46 dBµV	-22.65 dB	Pass	Neutral
3	15.837 MHz	32.12 dBµV	50 dBµV	-17.88 dB	Pass	Neutral
4	17.115 MHz	32.61 dBµV	50 dBµV	-17.39 dB	Pass	Neutral

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-07-14
 Operating Conditions: ambient temperature: 21 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127 RC L1
 Operational Mode: BLE, 2 Mbps, 2440 MHz, PRBS9_239 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	167.1 kHz	43.13 dBµV	65.1 dBµV	-21.98 dB	Pass	Line 1
2	546 kHz	34.83 dBµV	56 dBµV	-21.17 dB	Pass	Line 1
3	16.206 MHz	40.29 dBµV	60 dBµV	-19.71 dB	Pass	Line 1
4	16.922 MHz	38.46 dBµV	60 dBµV	-21.54 dB	Pass	Line 1

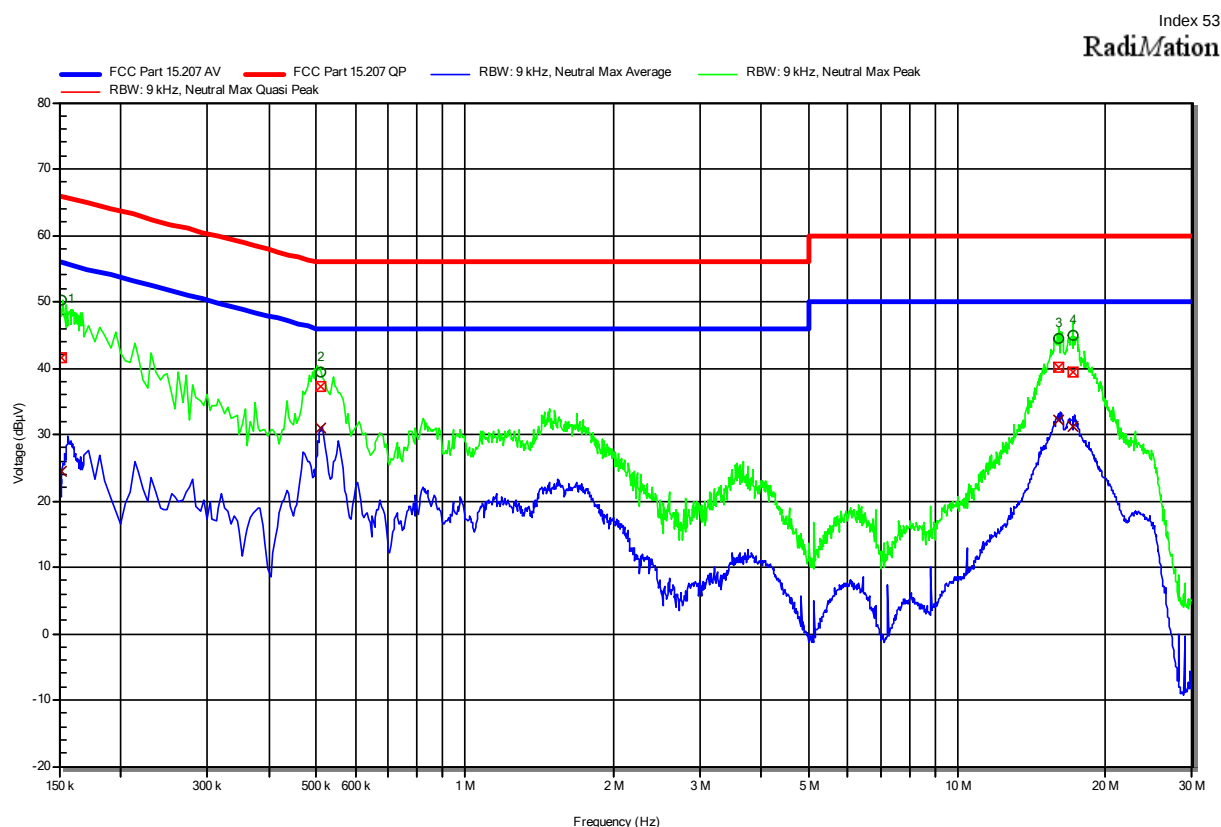
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	167.1 kHz	26.45 dBµV	55.1 dBµV	-28.66 dB	Pass	Line 1
2	546 kHz	27.11 dBµV	46 dBµV	-18.89 dB	Pass	Line 1
3	16.206 MHz	32.01 dBµV	50 dBµV	-17.99 dB	Pass	Line 1
4	16.922 MHz	31.94 dBµV	50 dBµV	-18.06 dB	Pass	Line 1

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-07-14
 Operating Conditions: ambient temperature: 21 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127
 Operational Mode: BLE, 2 Mbps, 2440 MHz, PRBS9_239 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	152.25 kHz	41.5 dBµV	65.88 dBµV	-24.38 dB	Pass	Neutral
2	509.55 kHz	37.32 dBµV	56 dBµV	-18.68 dB	Pass	Neutral
3	16.107 MHz	40.12 dBµV	60 dBµV	-19.88 dB	Pass	Neutral
4	17.21 MHz	39.48 dBµV	60 dBµV	-20.52 dB	Pass	Neutral

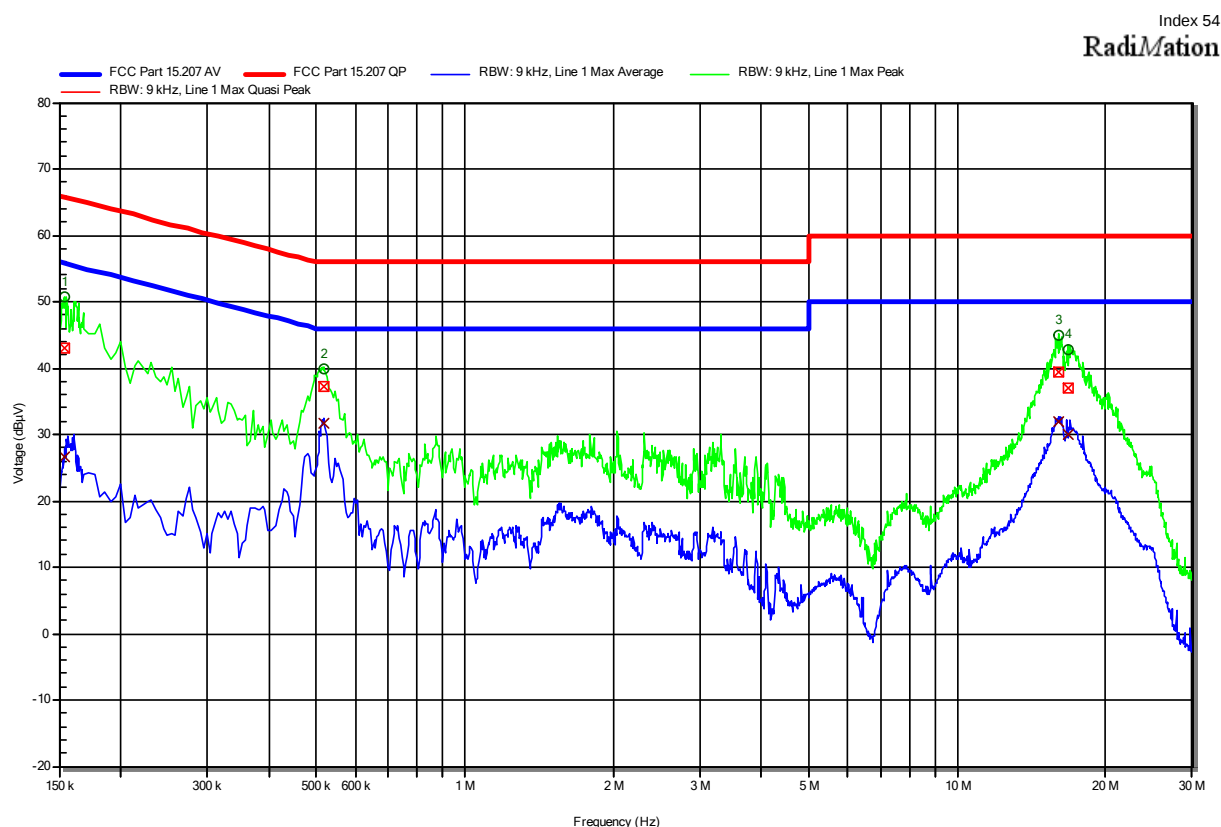
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	152.25 kHz	24.5 dBµV	55.88 dBµV	-31.38 dB	Pass	Neutral
2	509.55 kHz	31.06 dBµV	46 dBµV	-14.94 dB	Pass	Neutral
3	16.107 MHz	32.25 dBµV	50 dBµV	-17.75 dB	Pass	Neutral
4	17.21 MHz	31.23 dBµV	50 dBµV	-18.77 dB	Pass	Neutral

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-07-14
 Operating Conditions: ambient temperature: 21 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127 RC L1
 Operational Mode: BLE, 2 Mbps, 2480 MHz, PRBS9_239 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	153.6 kHz	43.07 dBµV	65.8 dBµV	-22.73 dB	Pass	Line 1
2	518.55 kHz	37.23 dBµV	56 dBµV	-18.77 dB	Pass	Line 1
3	16.107 MHz	39.29 dBµV	60 dBµV	-20.71 dB	Pass	Line 1
4	16.746 MHz	36.97 dBµV	60 dBµV	-23.03 dB	Pass	Line 1

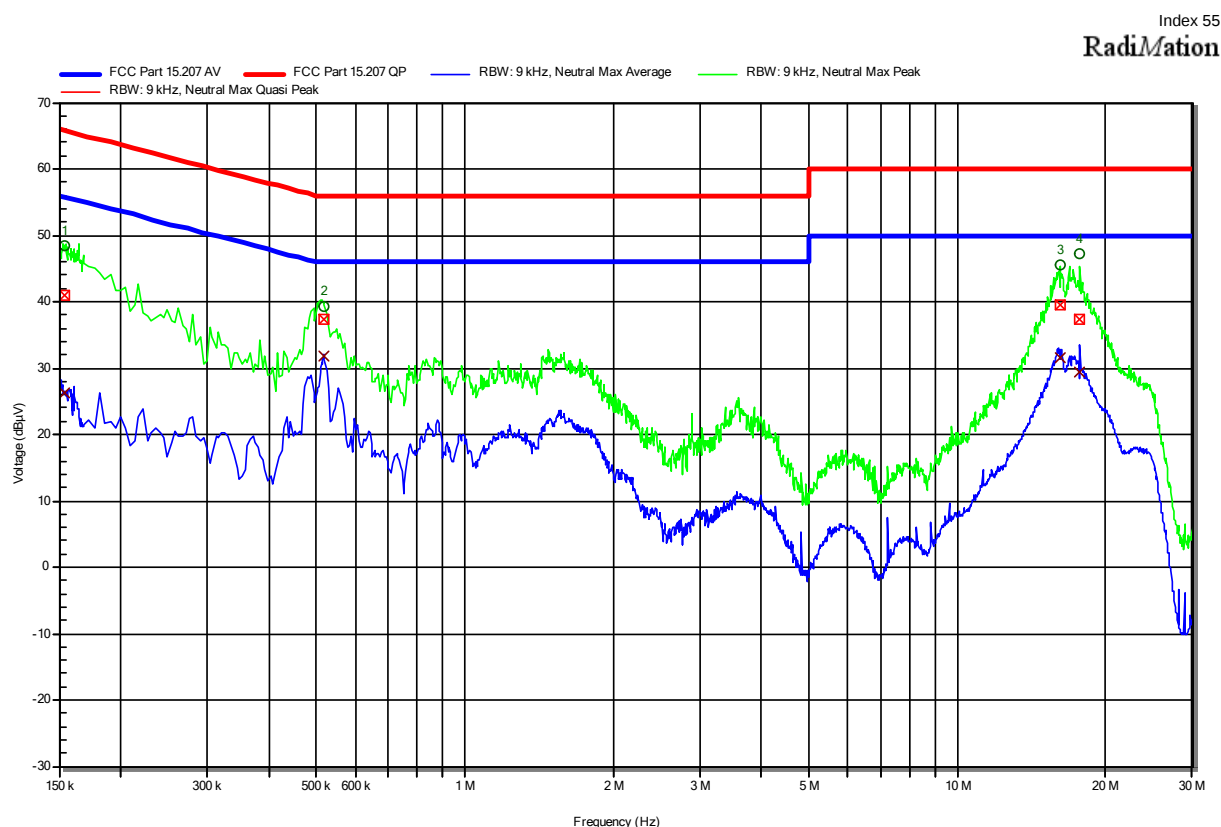
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	153.6 kHz	26.74 dBµV	55.8 dBµV	-29.06 dB	Pass	Line 1
2	518.55 kHz	31.68 dBµV	46 dBµV	-14.32 dB	Pass	Line 1
3	16.107 MHz	31.83 dBµV	50 dBµV	-18.17 dB	Pass	Line 1
4	16.746 MHz	29.9 dBµV	50 dBµV	-20.1 dB	Pass	Line 1

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-07-14
 Operating Conditions: ambient temperature: 21 °Celsius
 power input: 3.85 V DC (Lithium Batt.)
 LISN: Schwarzbeck NSLK 8127
 Operational Mode: BLE, 2 Mbps, 2480 MHz, PRBS9_239 Bytes
 EUT Configuration:
 Applied to Port: 120 VAC / 60 Hz
 Note 1:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	154.05 kHz	40.9 dBµV	65.78 dBµV	-24.88 dB	Pass	Neutral
2	518.55 kHz	37.27 dBµV	56 dBµV	-18.73 dB	Pass	Neutral
3	16.152 MHz	39.59 dBµV	60 dBµV	-20.41 dB	Pass	Neutral
4	17.7 MHz	37.25 dBµV	60 dBµV	-22.75 dB	Pass	Neutral

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	154.05 kHz	26.16 dBµV	55.78 dBµV	-29.62 dB	Pass	Neutral
2	518.55 kHz	31.75 dBµV	46 dBµV	-14.25 dB	Pass	Neutral
3	16.152 MHz	31.68 dBµV	50 dBµV	-18.32 dB	Pass	Neutral
4	17.7 MHz	29.34 dBµV	50 dBµV	-20.66 dB	Pass	Neutral

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

3.6 Test Conditions and Results - Band-edge compliance

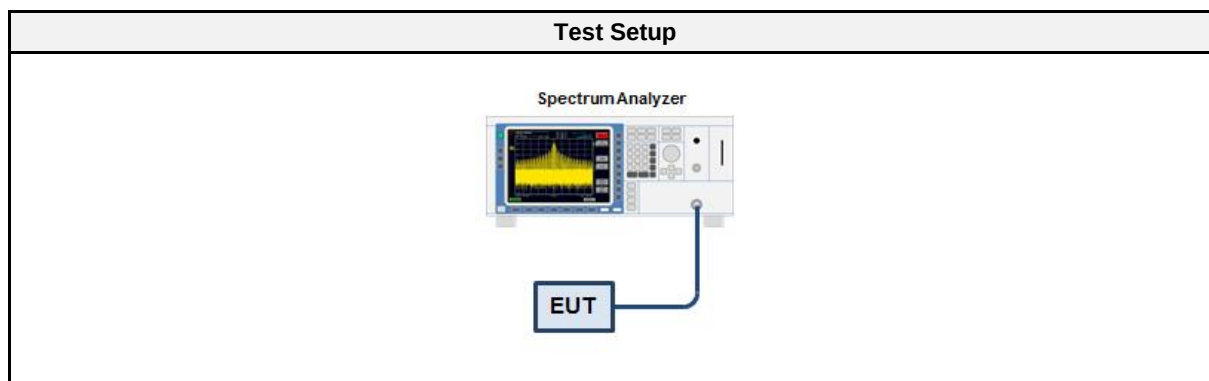
3.6.1 Information

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	Dr.-Ing. Dhamia Almozani
Date	2022-03-25 + 2022-07-04

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)	Gigalane	CAABN	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

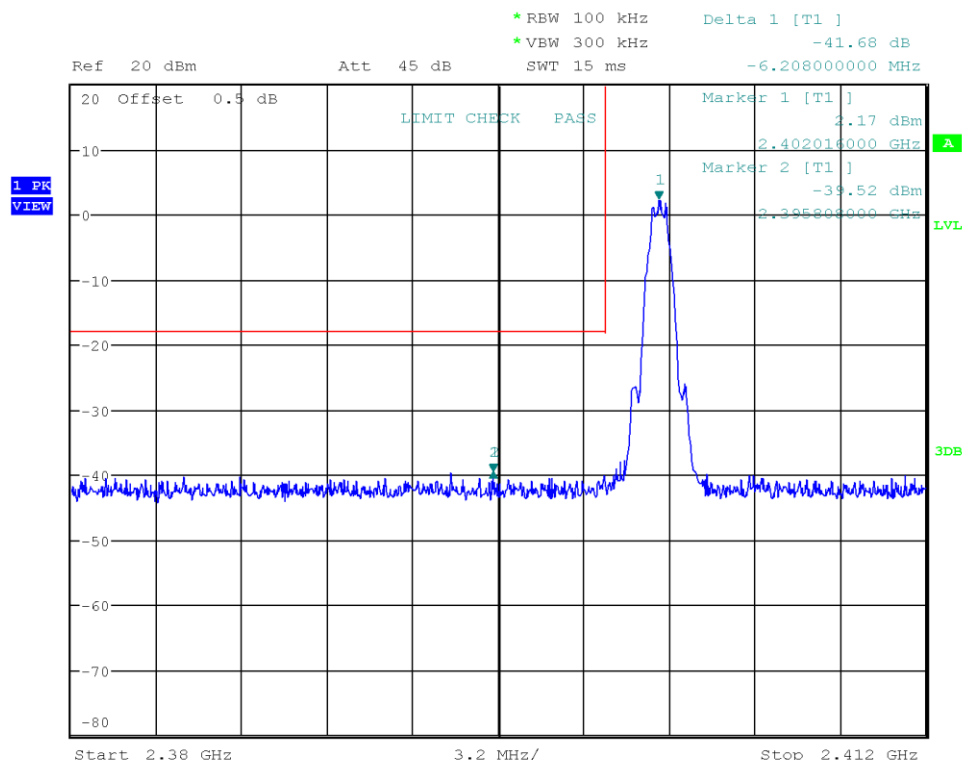
3.6.6 Results

Test Results 1 Mbps				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
GFSK	2402	-41.68	-20	PASS
GFSK	2480	-41.73	-20	PASS

Test Results 2 Mbps				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
GFSK	2402	-31.09	-20	PASS
GFSK	2480	-41.94	-20	PASS

Emissions in nonrestricted frequency bands at the Band-edge

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Band-edge: Lower
 In-band Frequency [MHz]: 2402.016
 Max. in-band Level [dBm/100 kHz]: 2.166
 Out-of-band Frequency [MHz]: 2395.808
 Max. out-of-band Level [dBm/100 kHz]: -39.517
 Attenuation [dB]: -41.68



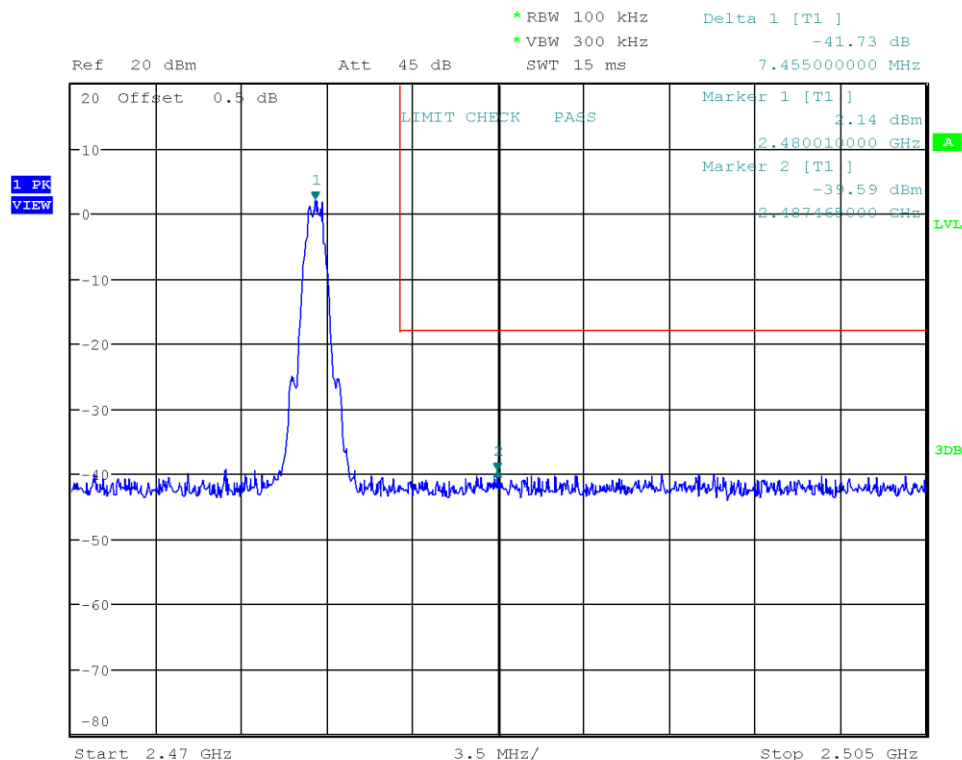
Date: 25.MAR.2022 14:35:48

Test Report No.: G0M-2201-1252-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-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Band-edge: Upper
 In-band Frequency [MHz]: 2480.01
 Max. in-band Level [dBm/100 kHz]: 2.14
 Out-of-band Frequency [MHz]: 2487.465
 Max. out-of-band Level [dBm/100 kHz]: -39.594
 Attenuation [dB]: -41.73



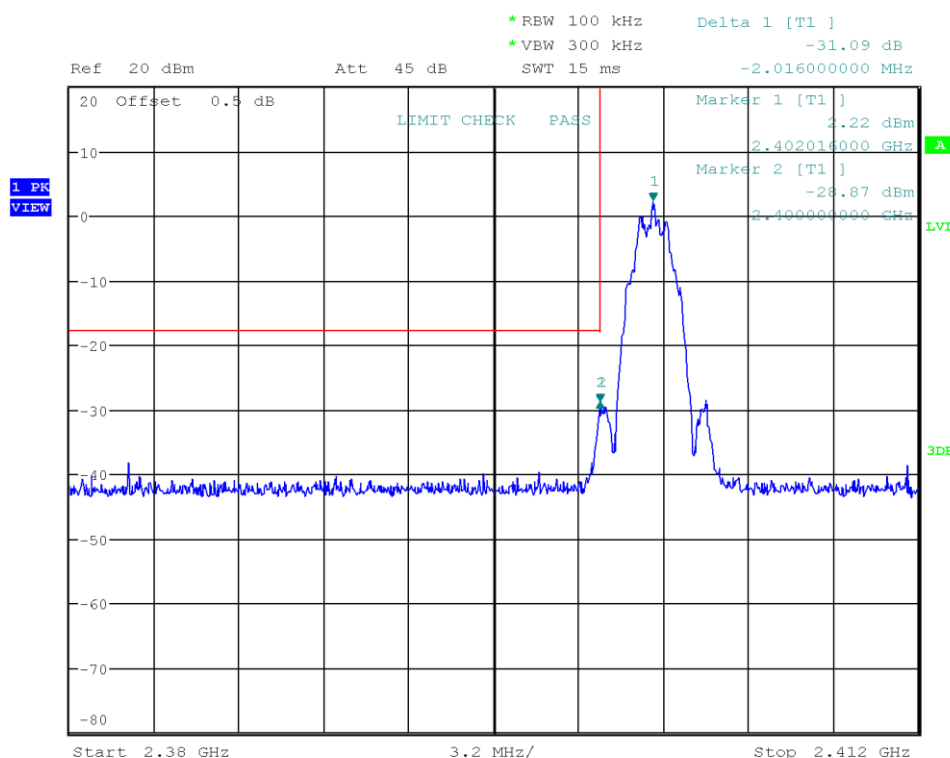
Date: 25.MAR.2022 14:37:05

Test Report No.: G0M-2201-1252-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-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: 2022-07-04
 Note: 2 Mbps
 Band-edge: Lower
 In-band Frequency [MHz]: 2402.016
 Max. in-band Level [dBm/100 kHz]: 2.216
 Out-of-band Frequency [MHz]: 2400.0
 Max. out-of-band Level [dBm/100 kHz]: -28.875
 Attenuation [dB]: -31.09



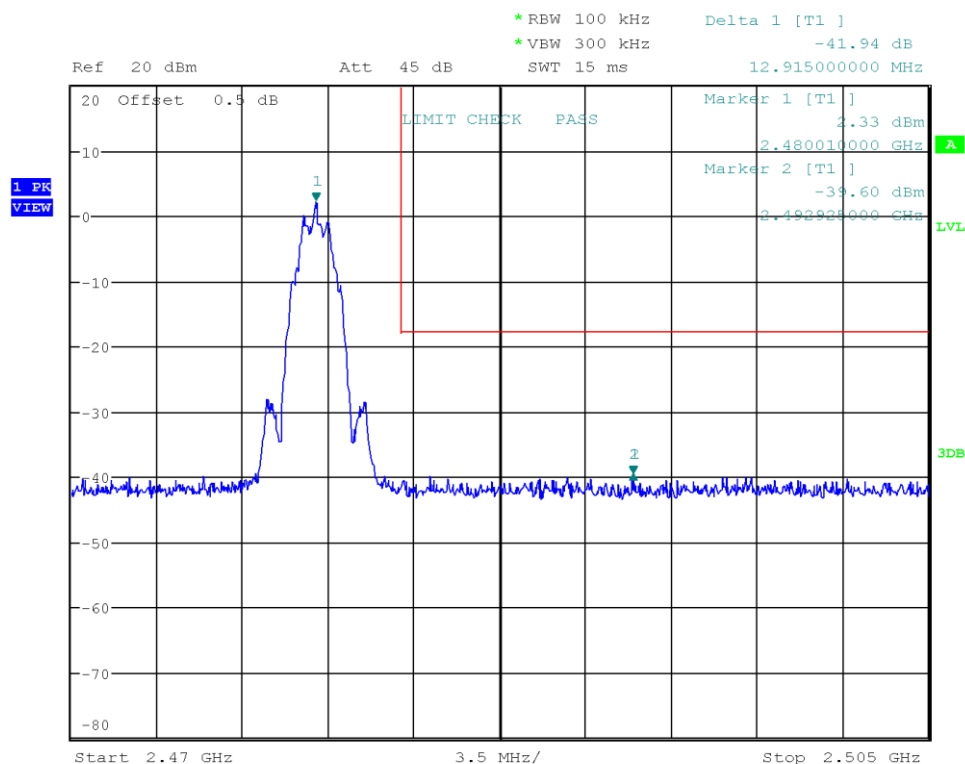
Date: 4.JUL.2022 10:47:50

Test Report No.: G0M-2201-1252-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-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: 2022-07-04
 Note: 2 Mbps
 Band-edge: Upper
 In-band Frequency [MHz]: 2480.01
 Max. in-band Level [dBm/100 kHz]: 2.332
 Out-of-band Frequency [MHz]: 2492.925
 Max. out-of-band Level [dBm/100 kHz]: -39.605
 Attenuation [dB]: -41.94



Date: 4.JUL.2022 10:45:36

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

3.7 Test Conditions and Results - Conducted spurious emissions

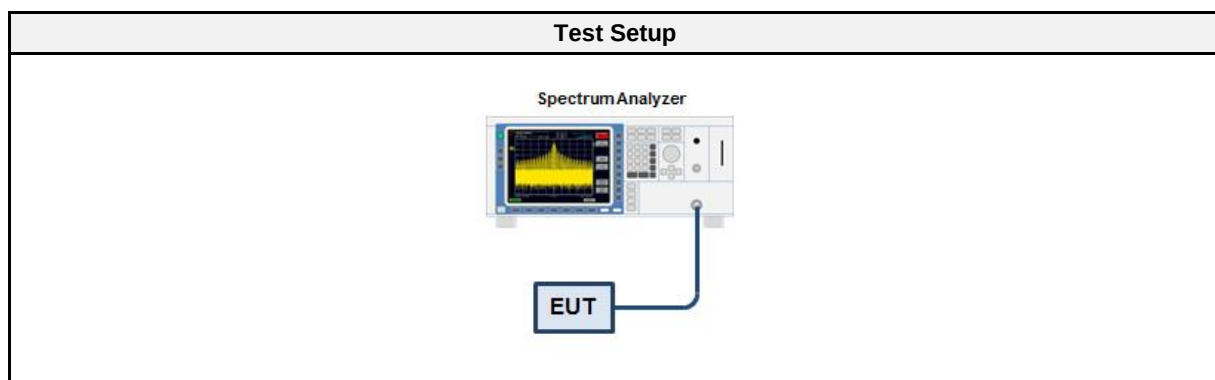
3.7.1 Information

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	Dr.-Ing. Dhamia Almozani
Date	2022-03-25 + 2022-07-04

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)	Gigalane	CAABN	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

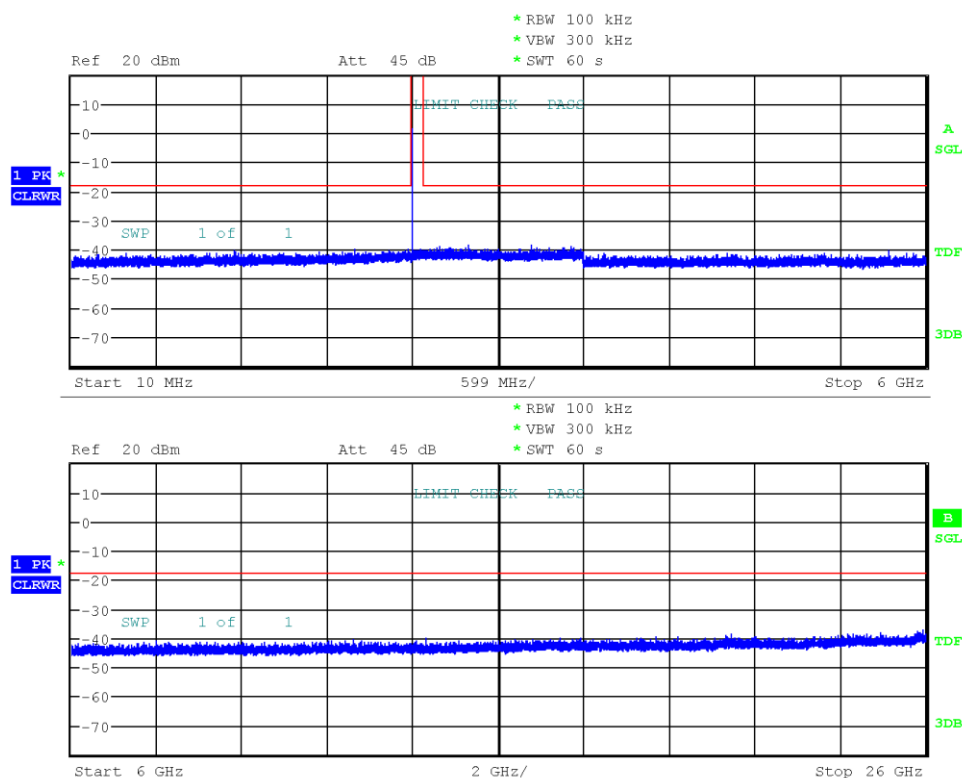
3.7.6 Results

Test Results 1 Mbps		
Mode	Channel [MHz]	Verdict
GFSK	2402	PASS
GFSK	2440	PASS
GFSK	2480	PASS

Test Results 2 Mbps		
Mode	Channel [MHz]	Verdict
GFSK	2402	PASS
GFSK	2440	PASS
GFSK	2480	PASS

Conducted Spurious Emissions

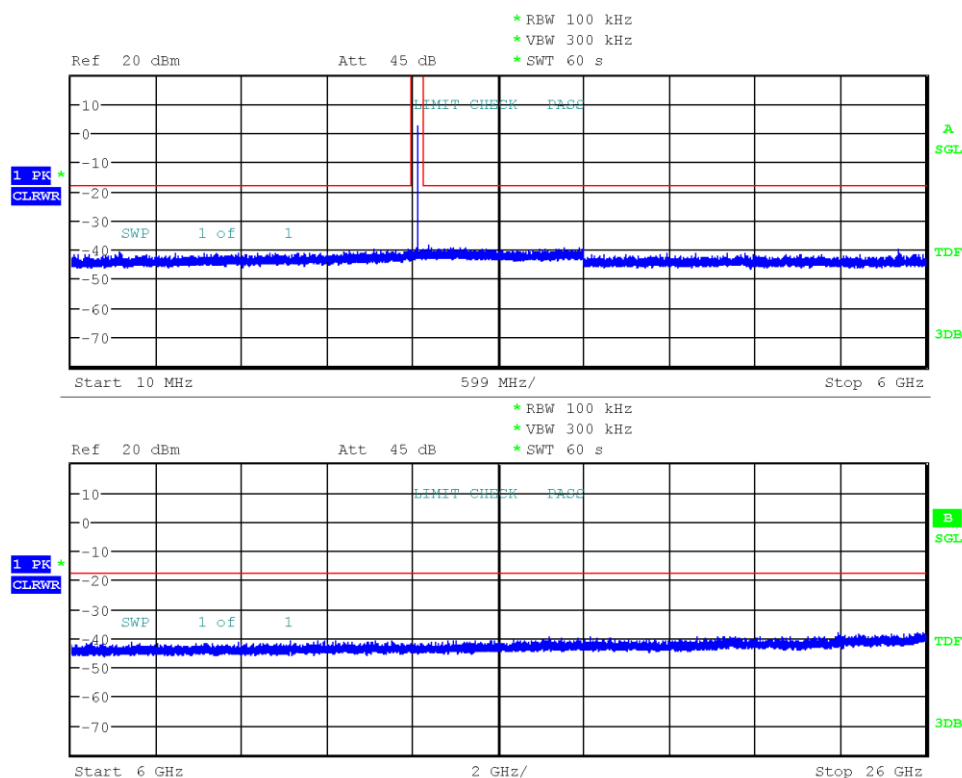
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Max. in-band Frequency [MHz]: 2402.0
 Max. in-band Level [dBm/100 kHz]: 2.3
 Out-of-band Limit [dBm/100 kHz]: -17.7



Date: 25.MAR.2022 14:46:55

Conducted Spurious Emissions

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Max. in-band Frequency [MHz]: 2440.0
 Max. in-band Level [dBm/100 kHz]: 2.5
 Out-of-band Limit [dBm/100 kHz]: -17.5



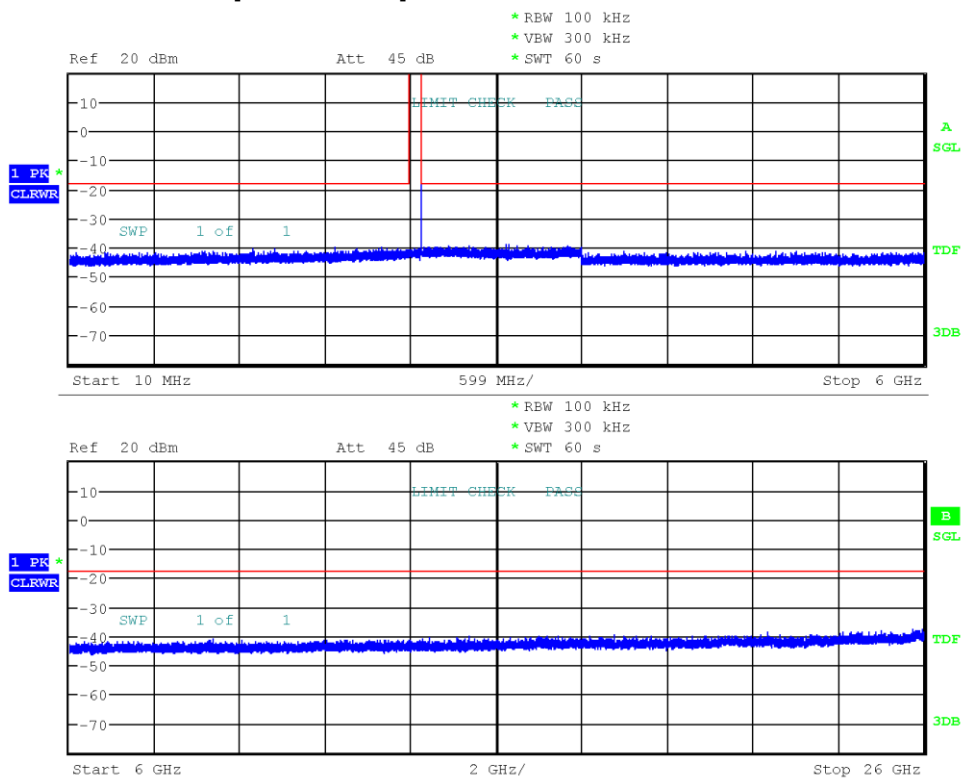
Date: 25.MAR.2022 14:50:36

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Conducted Spurious Emissions

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: Dr.-Ing. Dhamia Almozani
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-03-25
 Max. in-band Frequency [MHz]: 2480.0
 Max. in-band Level [dBm/100 kHz]: 2.5
 Out-of-band Limit [dBm/100 kHz]: -17.5



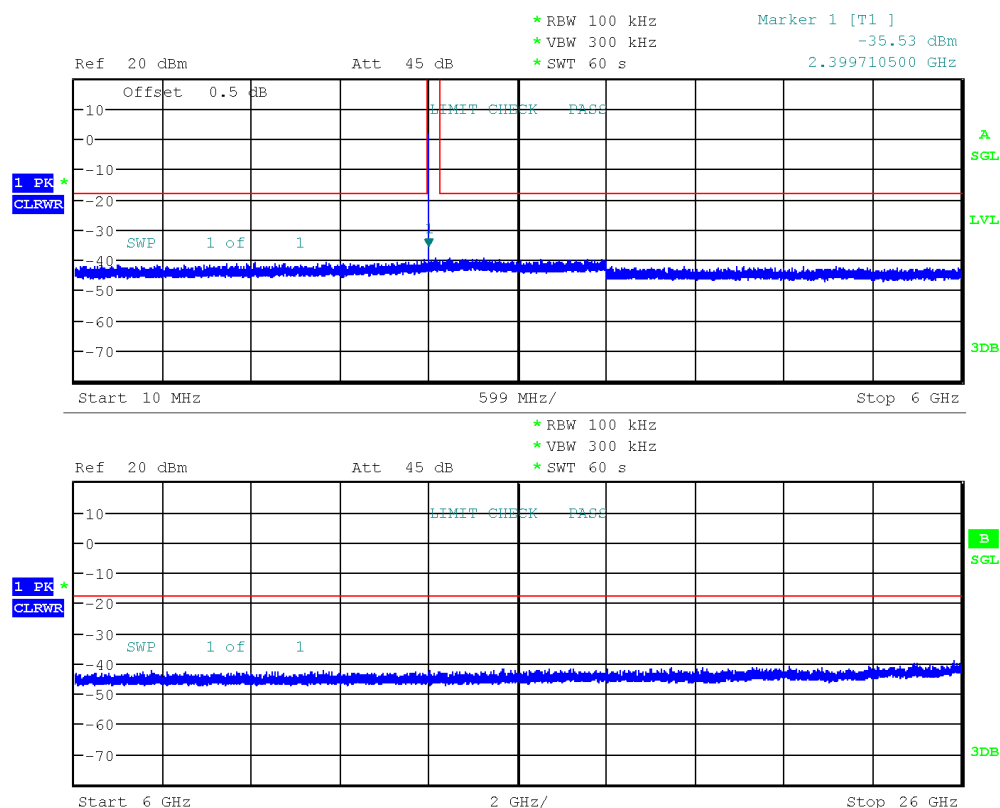
Date: 25.MAR.2022 14:55:24

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Conducted Spurious Emissions

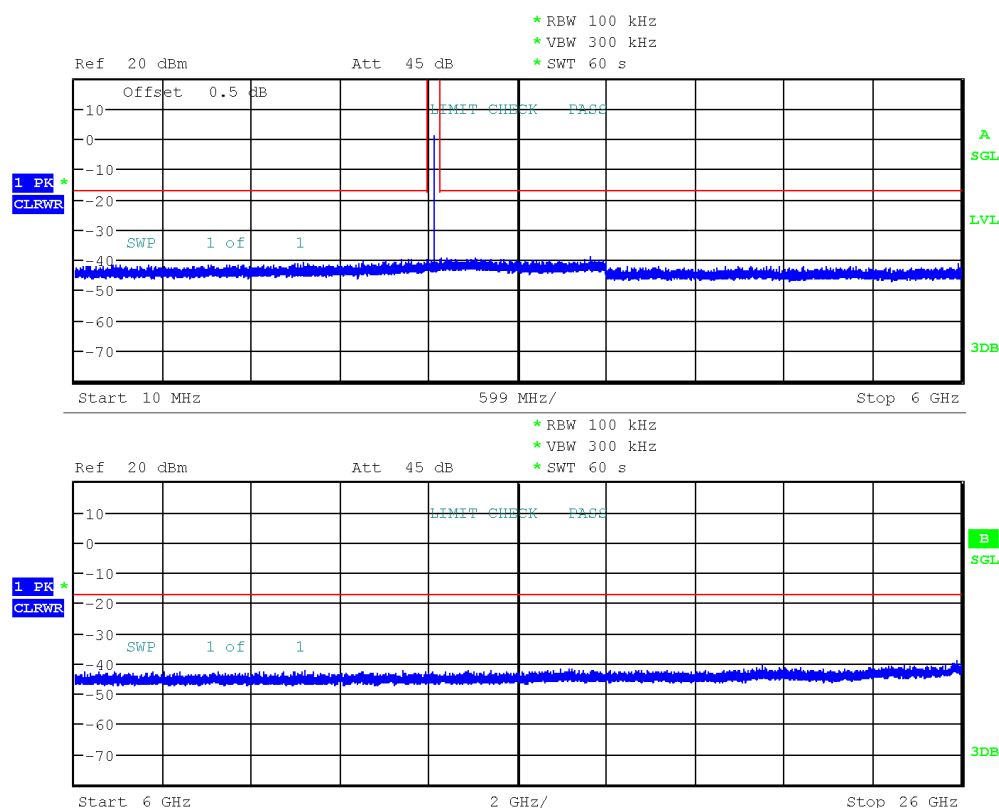
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Odai Qawasmeh
 Test Site: Eurofins Product Service GmbH
 Test Date: 2022-07-04
 Note: 2 Mbps
 Max. in-band Frequency [MHz]: 2402.0
 Max. in-band Level [dBm/100 kHz]: 2.5
 Out-of-band Limit [dBm/100 kHz]: -17.5



Date: 4.JUL.2022 11:29:34

Conducted Spurious Emissions

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: 2022-07-04
 Note: 2 Mbps
 Max. in-band Frequency [MHz]: 2440.0
 Max. in-band Level [dBm/100 kHz]: 2.6
 Out-of-band Limit [dBm/100 kHz]: -17.4



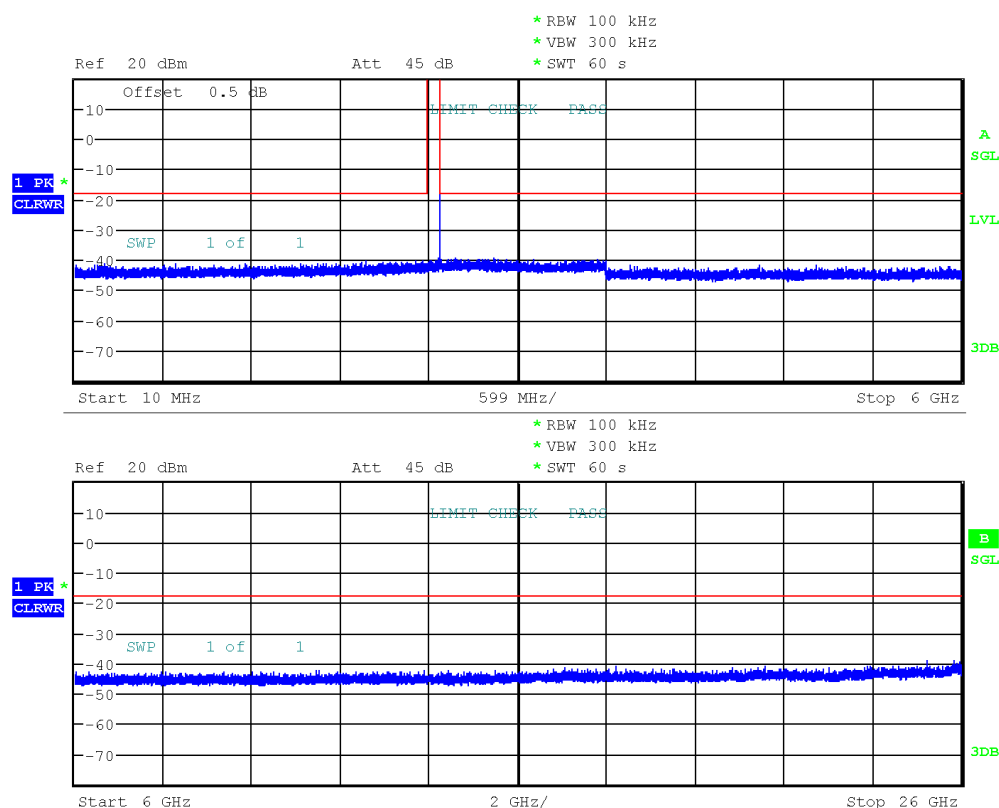
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Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Conducted Spurious Emissions

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38830
 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: 2022-07-04
 Note: 2 Mbps
 Max. in-band Frequency [MHz]: 2480.0
 Max. in-band Level [dBm/100 kHz]: 2.4
 Out-of-band Limit [dBm/100 kHz]: -17.6



Date: 4.JUL.2022 11:21:57

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

3.8 Test Conditions and Results - Transmitter radiated emissions

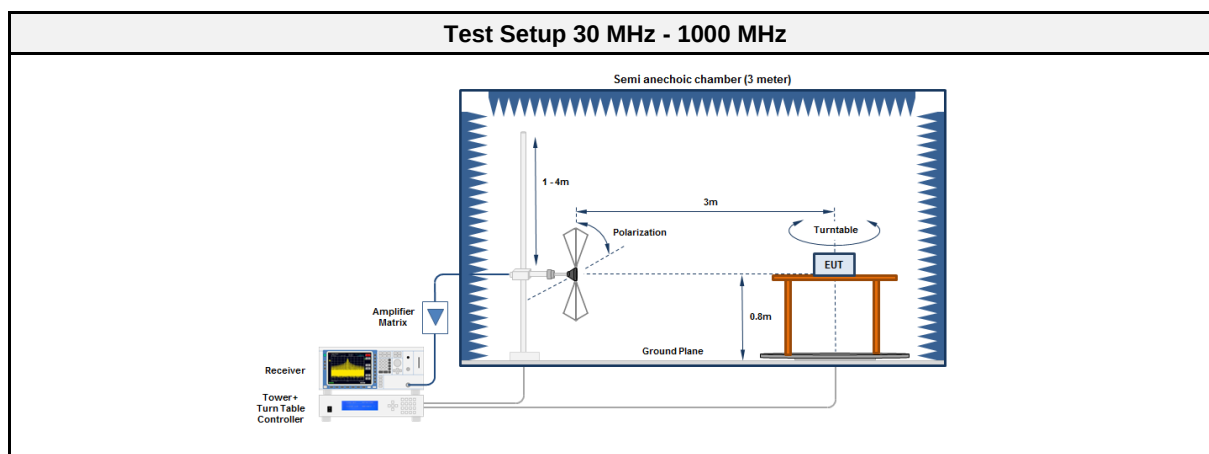
3.8.1 Information

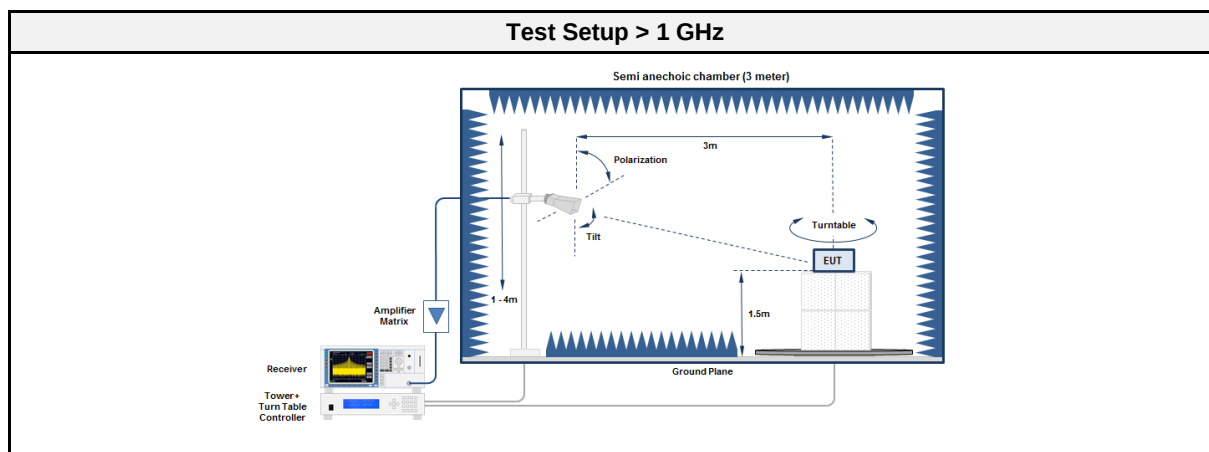
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISSED RSS-Gen, Issue 5 A2 (section 6.13)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6, 11.12
Operator	Radwan Jaafar
Date	2022-04-28 - 2022-07-13

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 - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	-	-
MXE EMI Receiver	Keysight Technologies	N9038A-526/WXP	EF01070	2021-07	2022-07
Biconical antenna	R&S	HK116	EF00030	2021-05	2024-05
LPD antenna	R&S	HL223	EF00187	2019-05	2022-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber	Frankonia	AC2	EF00196	-	-
Spectrum analyzer	R&S	FSU43	EF01631	2021-07	2022-07
Antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2024-03
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2024-03
40GHz High Gain Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.8.5 Procedure

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

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

3.8.6 Results

Test Results 1 Mbps						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2402	113.98	27.60	pk	ver	43.50	-15.88
2402	136.8068	27.70	pk	ver	43.50	-15.81
2402	162.107	25.20	pk	hor	43.50	-18.29
2402	280.94	31.90	pk	hor	46.00	-14.14
2402	327.9	26.70	pk	hor	46.00	-19.27
2402	2325.5	58.61	pk	ver	74.00	-15.39
2402	2325.5	44.89	avg	ver	54.00	-09.11
2440	116.1942	27.70	pk	ver	43.50	-15.80
2440	164.1385	26.20	pk	hor	43.50	-17.36
2440	258.16	27.60	pk	hor	46.00	-18.38
2440	282.8	32.10	pk	hor	46.00	-13.86
2440	400.42	30.60	pk	hor	46.00	-15.42
2440	17762	42.87	pk	ver	74.00	-31.13
2440	17762	31.61	avg	ver	54.00	-22.39
2480	116.6405	26.90	pk	ver	43.50	-16.64
2480	164.2618	25.40	pk	hor	43.50	-18.17
2480	271.1	34.40	pk	hor	46.00	-11.64
2480	407.92	28.10	pk	hor	46.00	-17.91
2480	2496.6	60.16	pk	hor	74.00	-13.84
2480	2496.6	45.71	avg	hor	54.00	-08.29
2480	7477	43.65	pk	ver	74.00	-30.35
2480	7477	31.99	avg	ver	54.00	-22.01

Test Results 2 Mbps						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2402	116.717	26.80	pk	ver	43.50	-16.69
2402	280.26	29.60	pk	hor	46.00	-16.36
2402	609.52	30.10	pk	hor	46.00	-15.94
2402	4803.1	41.12	pk	hor	74.00	-32.88
2402	4803.1	33.17	avg	hor	54.00	-20.83
2440	116.224	26.10	pk	ver	43.50	-17.39
2440	327.68	27.70	pk	hor	46.00	-18.33
2440	400.18	29.50	pk	hor	46.00	-16.50
2440	610.76	29.80	pk	hor	46.00	-16.16
2440	4880.8	39.56	pk	hor	74.00	-34.44
2440	4880.8	32.85	avg	hor	54.00	-21.15
2480	133.258	29.80	pk	ver	43.50	-13.74
2480	258.26	30.50	pk	hor	46.00	-15.47
2480	328.92	28.40	pk	hor	46.00	-17.64
2480	401.48	27.30	pk	hor	46.00	-18.72
2480	610.06	28.20	pk	hor	46.00	-17.83

3.9 Test Conditions and Results - Receiver radiated emissions

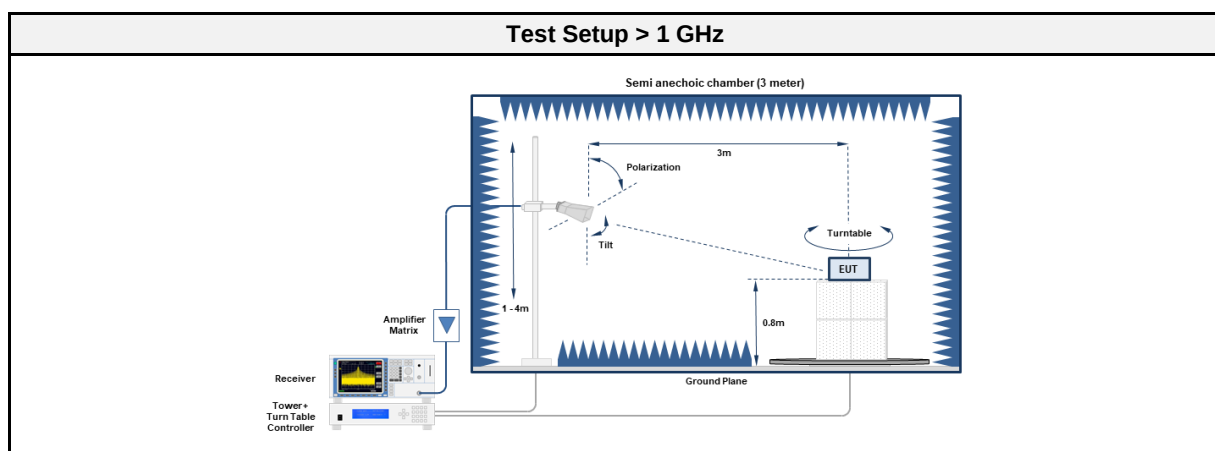
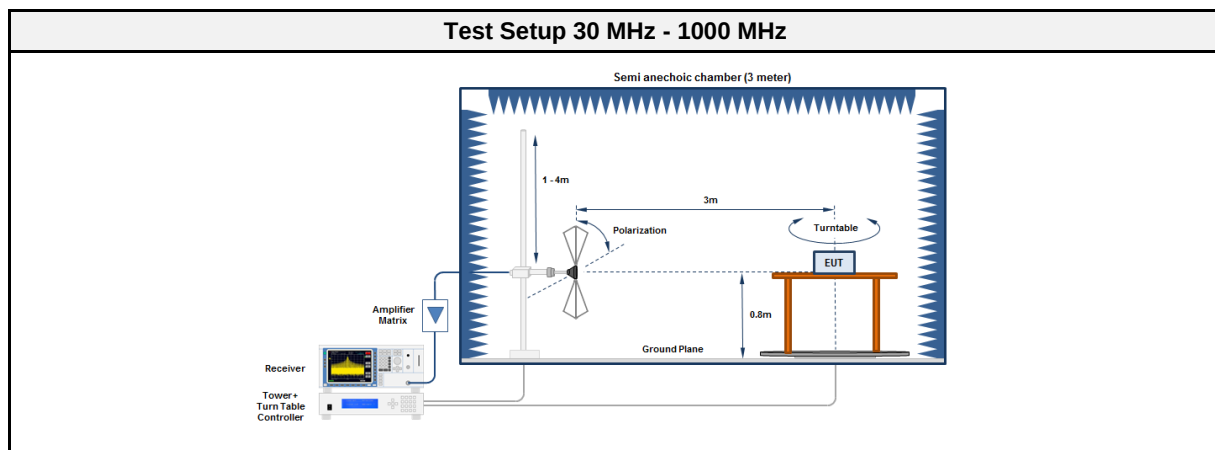
3.9.1 Information

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	2022-05-13

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



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	2021-07	2024-07
MXE EMI Receiver	Keysight Technologies	N9038A-526/WXP	EF01070	2021-07	2022-07
Biconical antenna	R&S	HK116	EF00030	2021-05	2024-05
LPD antenna	R&S	HL223	EF00187	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
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2019-10	2022-10
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-05

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	

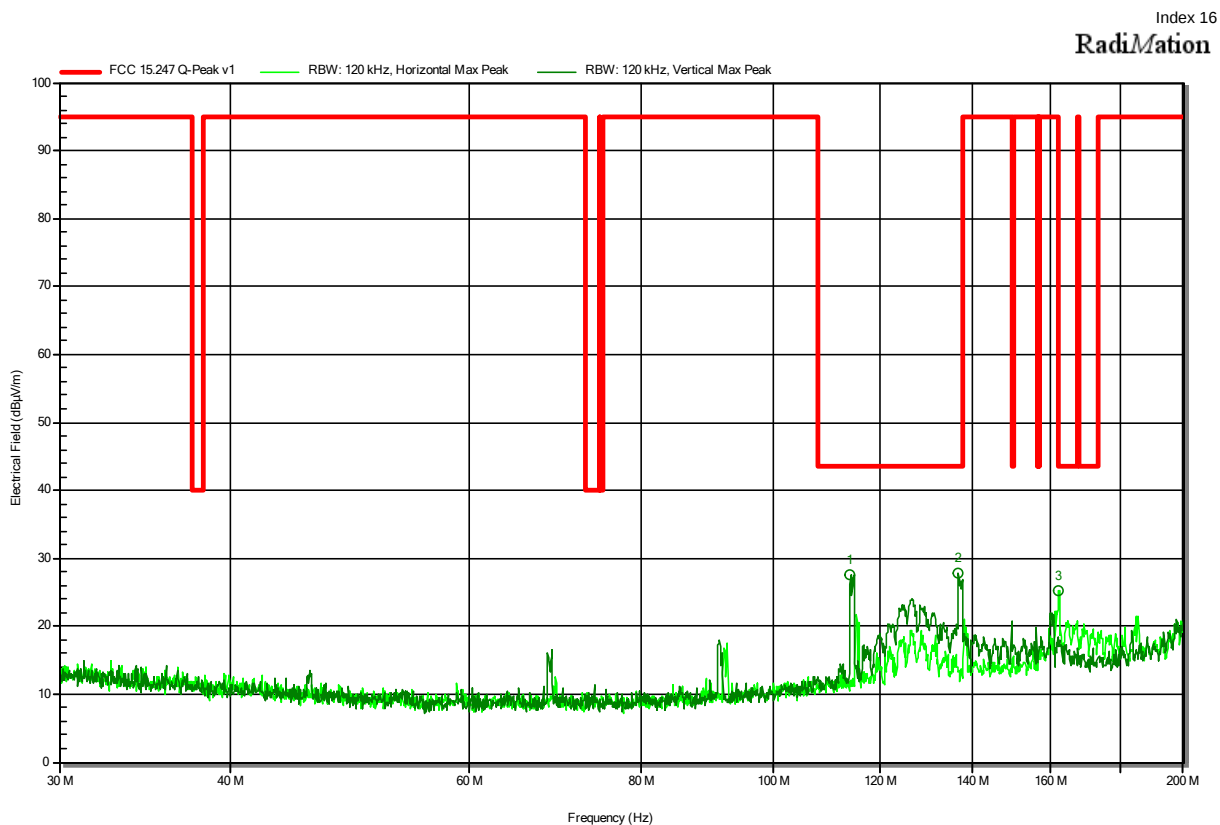
3.9.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2440	128.447	30.60	pk	ver	43.50	-12.91
2440	202.14	31.20	pk	ver	43.50	-12.33
2440	469.4	33.50	pk	hor	46.00	-12.51
2440	530.54	35.30	pk	hor	46.00	-10.68
2440	6493	49.52	pk	hor	74.00	-24.48
2440	6493	40.04	avg	hor	53.98	-13.94
2440	17312	47.53	pk	ver	74.00	-26.47
2440	17312	37.18	avg	ver	53.98	-16.80

ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

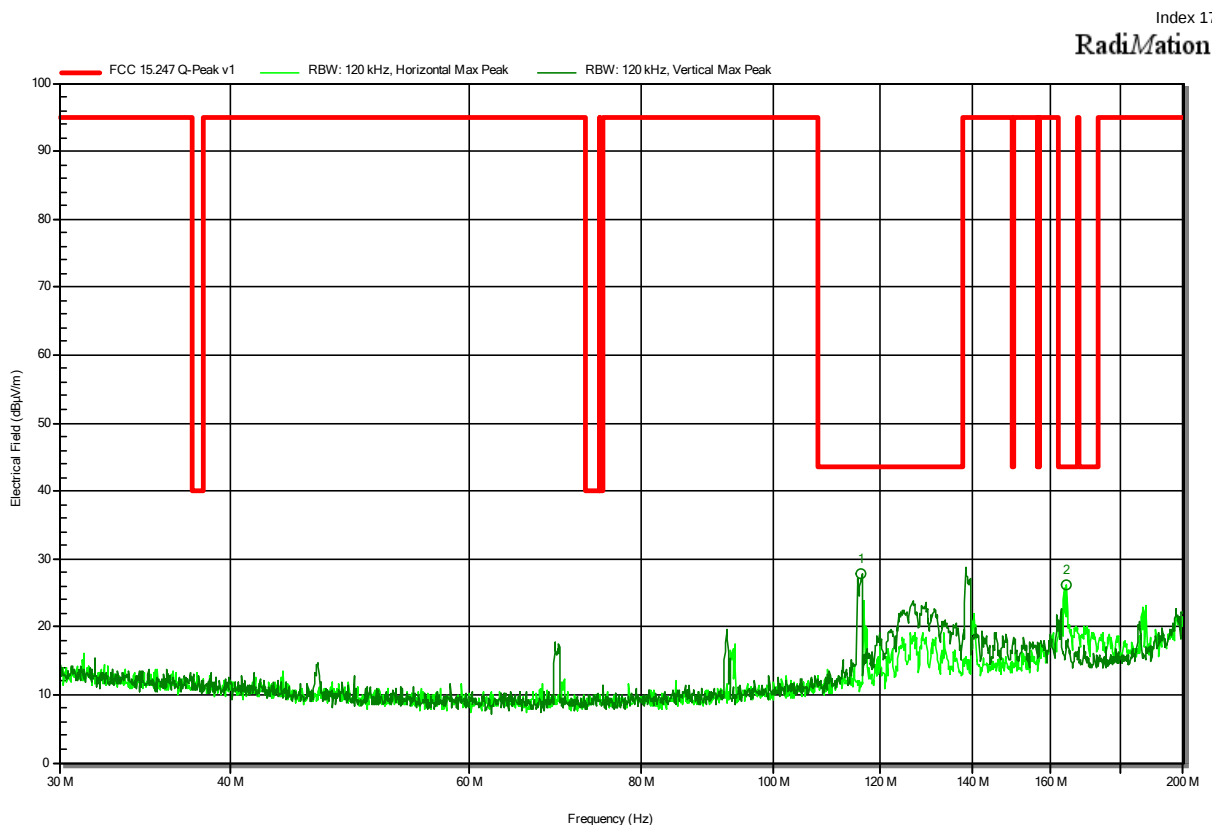
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2402 MHz, PRBS9_193 Bytes
 Test Date: 2022-05-13
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
113.98 MHz	27.6 dBµV/m	43.5 dBµV/m	-15.88 dB	Pass	Vertical
136.8068 MHz	27.7 dBµV/m	43.5 dBµV/m	-15.81 dB	Pass	Vertical
162.107 MHz	25.2 dBµV/m	43.5 dBµV/m	-18.29 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

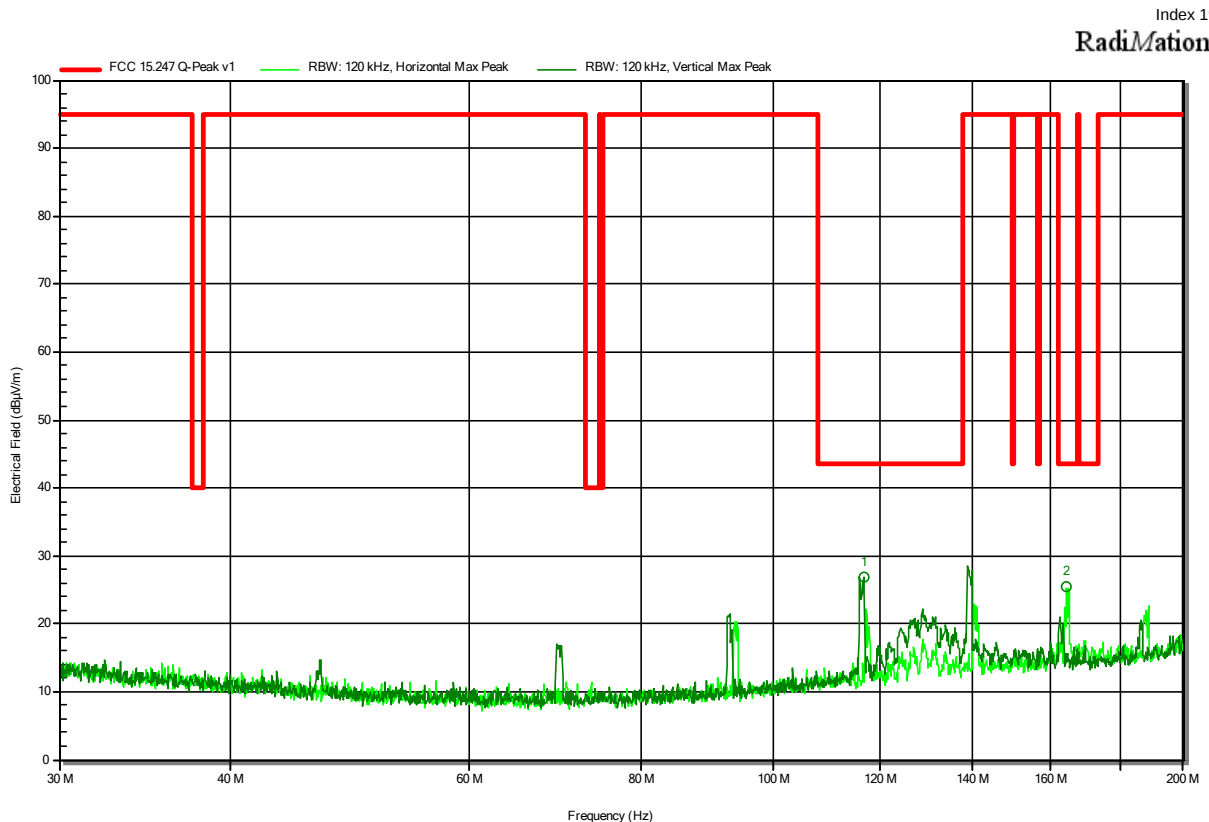
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2440 MHz, PRBS9_193 Bytes
 Test Date: 2022-05-13
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
116.1942 MHz	27.7 dBµV/m	43.5 dBµV/m	-15.8 dB	Pass	Vertical
164.1385 MHz	26.2 dBµV/m	43.5 dBµV/m	-17.36 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2480 MHz, PRBS9_193 Bytes
 Test Date: 2022-05-13
 Note:



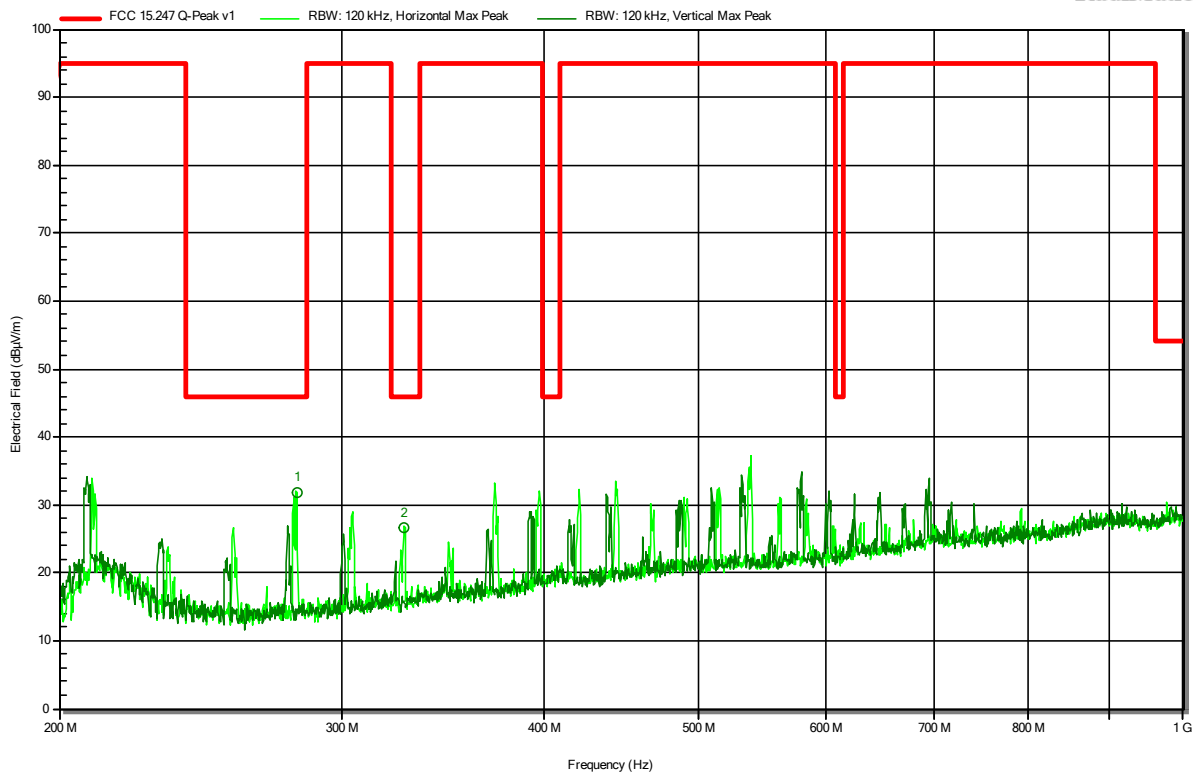
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
116.6405 MHz	26.9 dBµV/m	43.5 dBµV/m	-16.64 dB	Pass	Vertical
164.2618 MHz	25.4 dBµV/m	43.5 dBµV/m	-18.17 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2402 MHz, PRBS9_193 Bytes
 Test Date: 2022-05-13
 Note:

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RadiMation



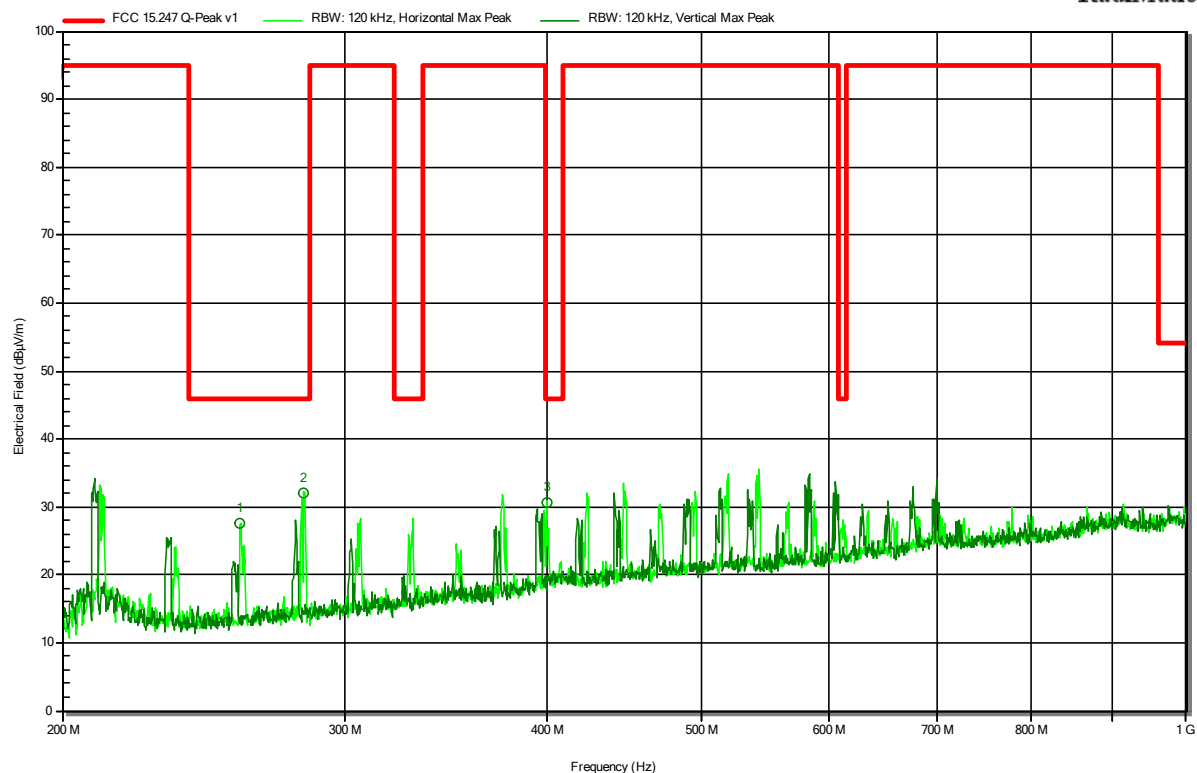
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
280.94 MHz	31.9 dBμV/m	46 dBμV/m	-14.14 dB	Pass	Horizontal
327.9 MHz	26.7 dBμV/m	46 dBμV/m	-19.27 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2440 MHz, PRBS9_193 Bytes
 Test Date: 2022-05-13
 Note:

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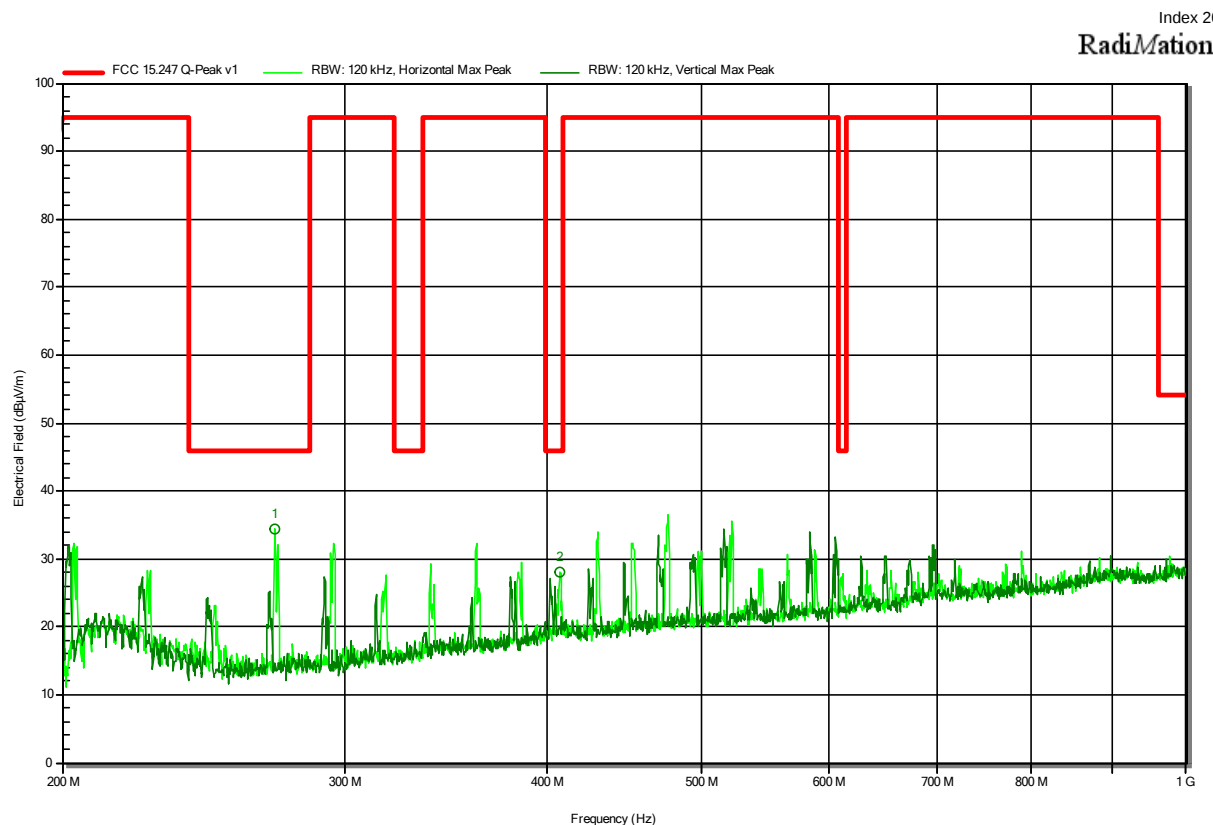
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
258.16 MHz	27.6 dBμV/m	46 dBμV/m	-18.38 dB	Pass	Horizontal
282.8 MHz	32.1 dBμV/m	46 dBμV/m	-13.86 dB	Pass	Horizontal
400.42 MHz	30.6 dBμV/m	46 dBμV/m	-15.42 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2480 MHz, PRBS9_193 Bytes
 Test Date: 2022-05-13
 Note:



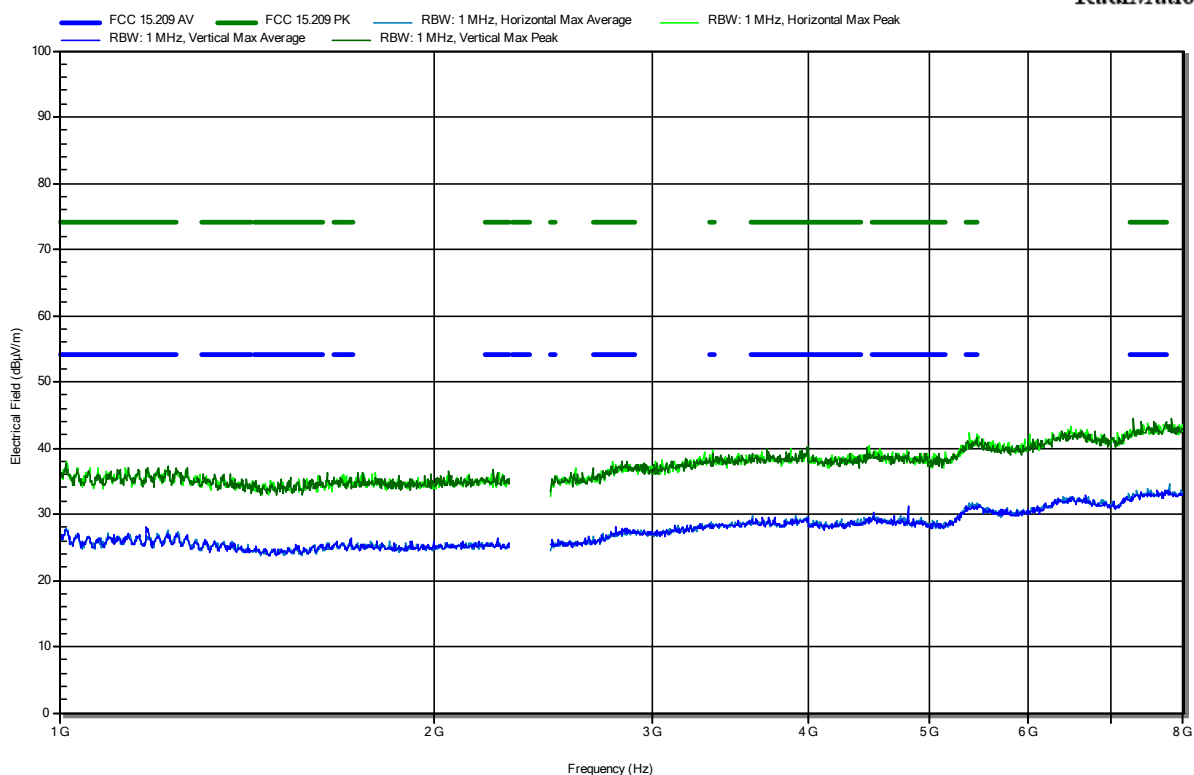
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
271.1 MHz	34.4 dBμV/m	46 dBμV/m	-11.64 dB	Pass	Horizontal
407.92 MHz	28.1 dBμV/m	46 dBμV/m	-17.91 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: R. Jaafar
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2402 MHz, PRBS9_193 Bytes
 Test Date: 2022-04-28
 Note:

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RadiMation

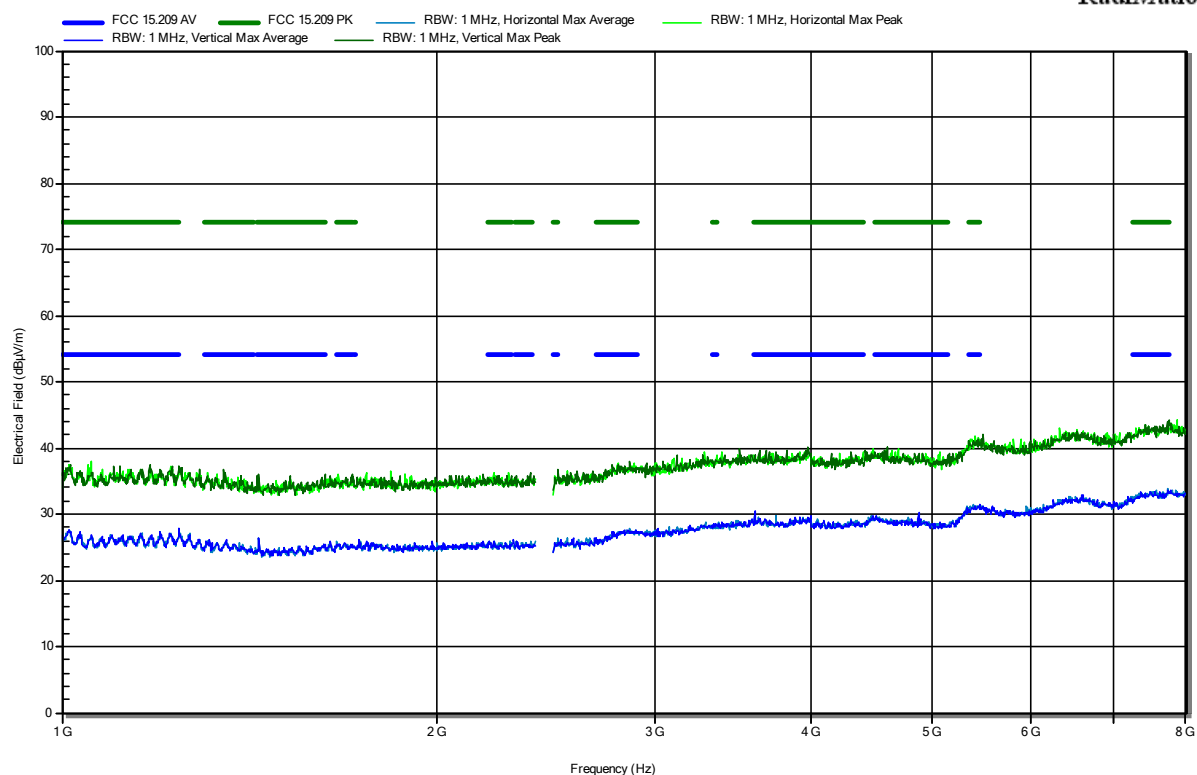


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: R. Jaafar
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2440 MHz, PRBS9_193 Bytes
 Test Date: 2022-04-28
 Note:

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RadiMation

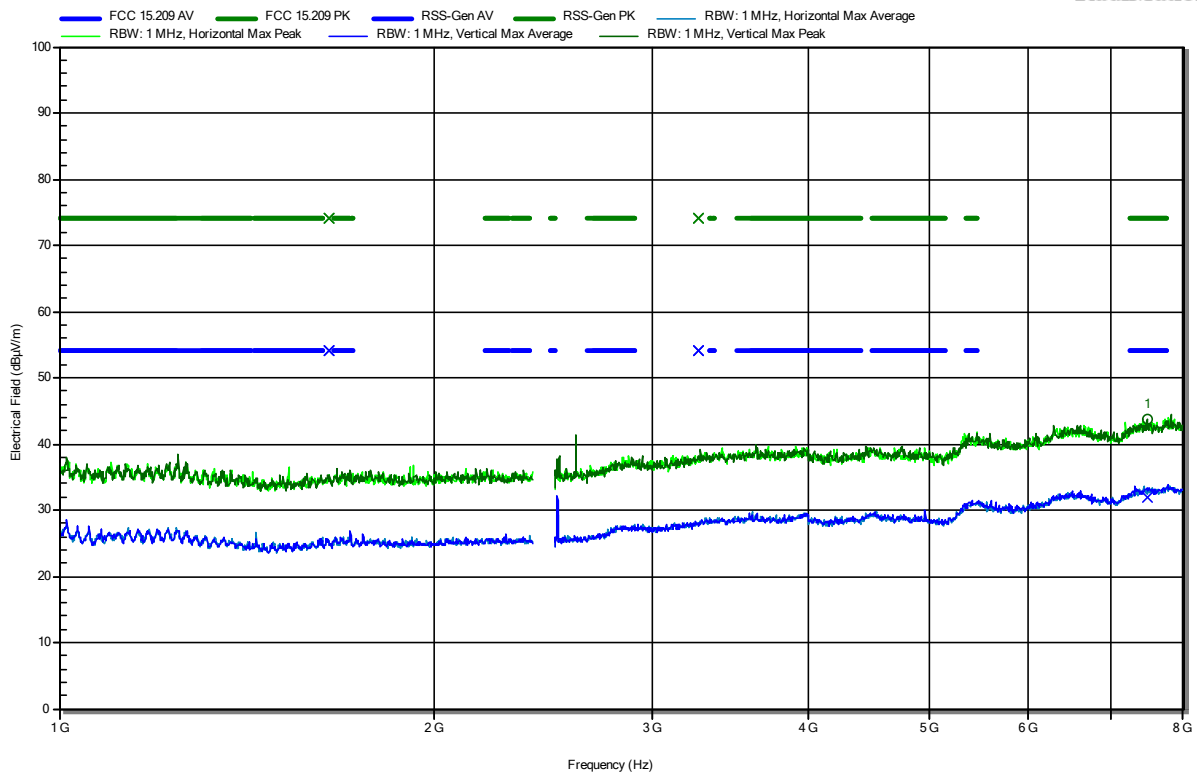


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: R. Jaafar
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2480 MHz, PRBS9_193 Bytes
 Test Date: 2022-04-28
 Note:

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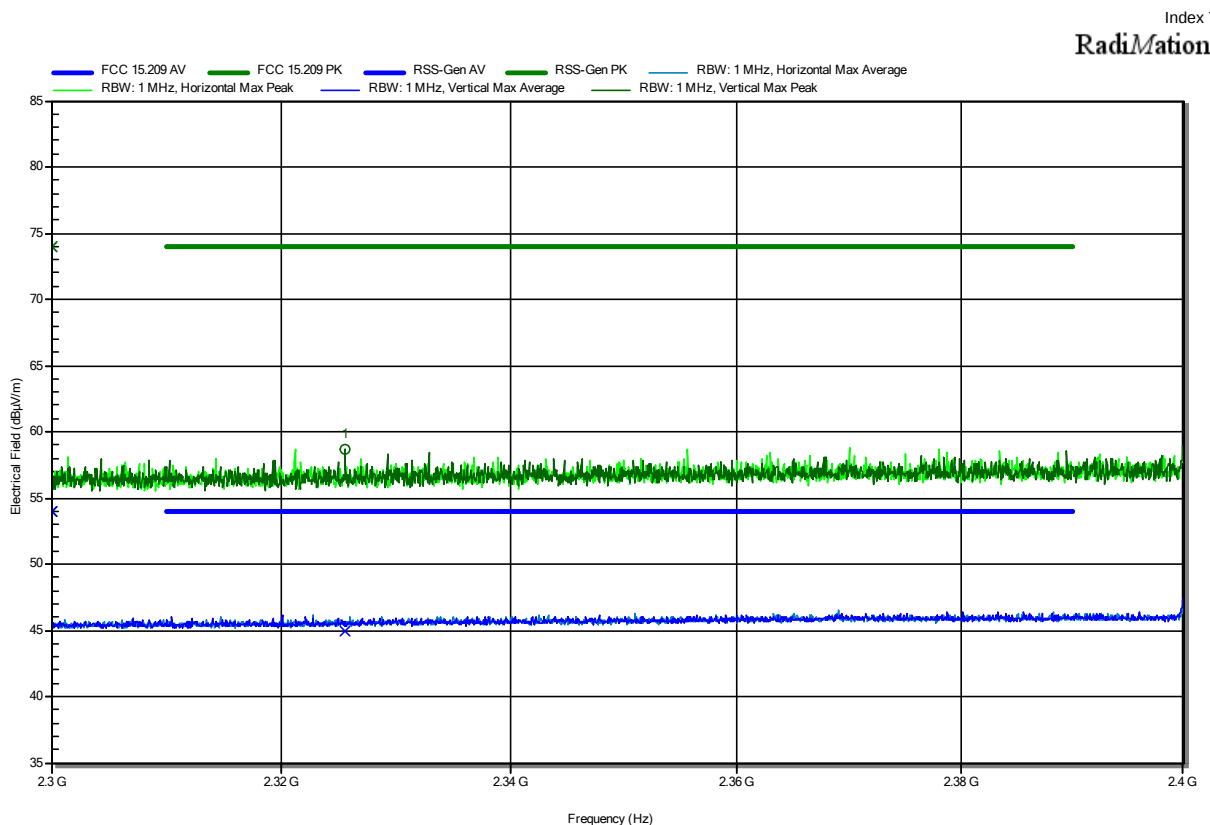
RadiMation



Frequency 7.477 GHz	Peak 43.65 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -30.35 dB	Peak Status Pass	Polarization Vertical
Frequency 7.477 GHz	Average 31.99 dBµV/m	Average Limit 54 dBµV/m	Average Difference -22.01 dB	Average Status Pass	Polarization Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: R. Jaafar
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2402 MHz, PRBS9_193 Bytes
 Test Date: 2022-04-28
 Note: lower band edge



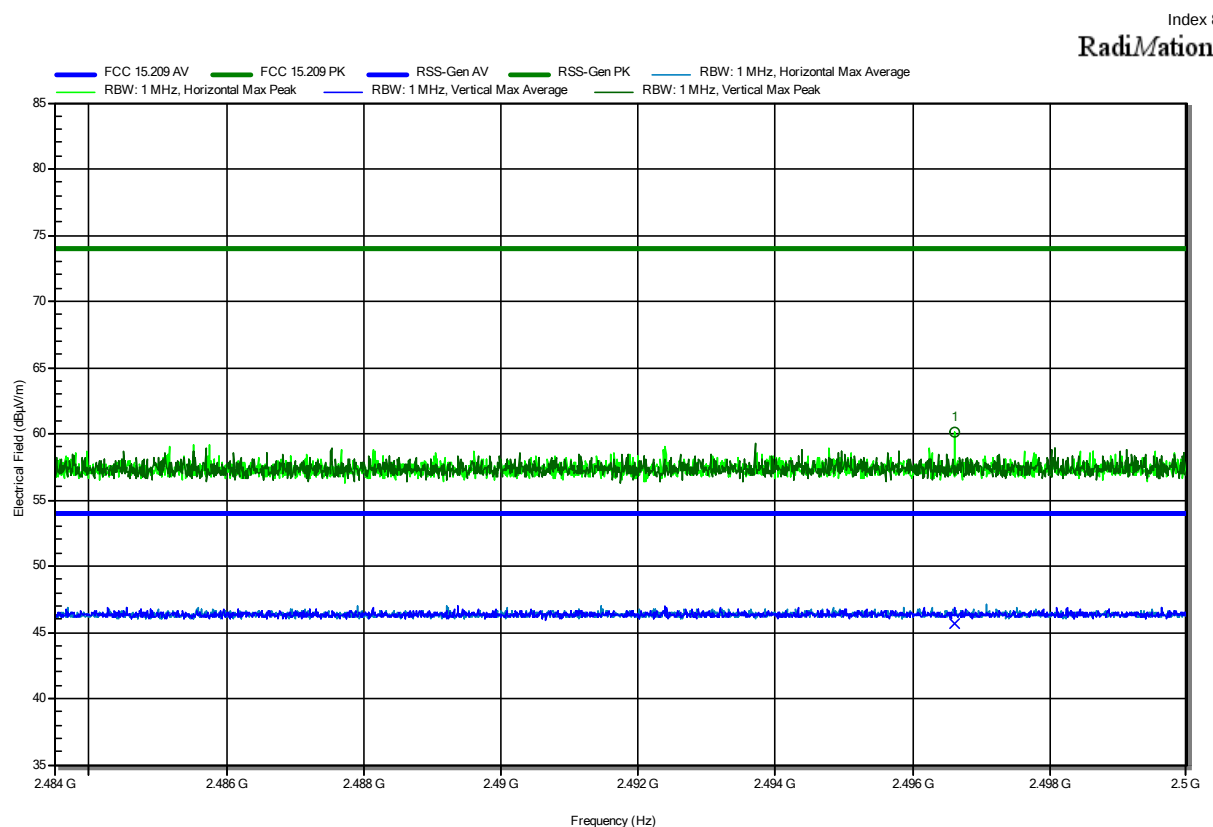
Frequency 2.3255 GHz	Peak 58.61 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -15.39 dB	Peak Status Pass	Polarization Vertical
Frequency 2.3255 GHz	Average 44.89 dBµV/m	Average Limit 54 dBµV/m	Average Difference -9.11 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

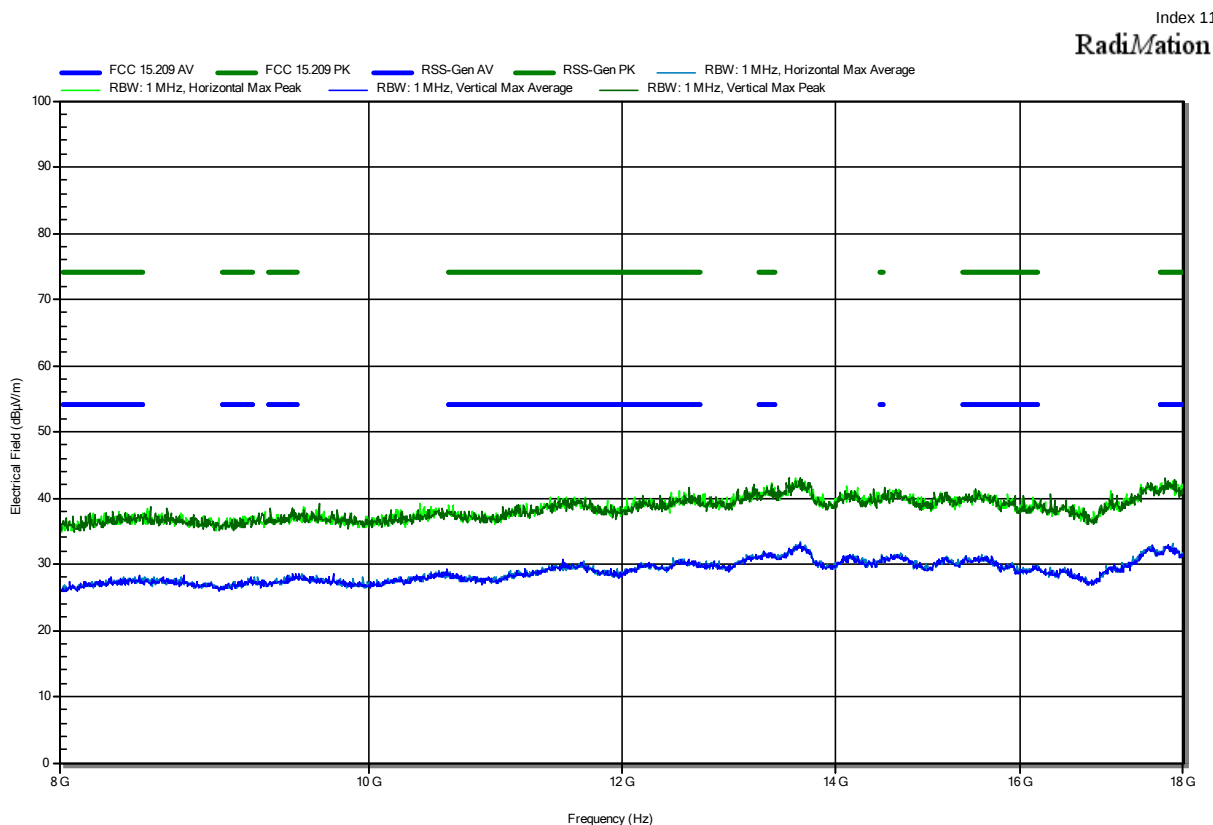
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: R. Jaafar
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2480 MHz, PRBS9_193 Bytes
 Test Date: 2022-04-28
 Note: upper band edge



Frequency 2.4966 GHz	Peak 60.16 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -13.84 dB	Peak Status Pass	Polarization Horizontal
Frequency 2.4966 GHz	Average 45.71 dBµV/m	Average Limit 54 dBµV/m	Average Difference -8.29 dB	Average Status Pass	Polarization Horizontal

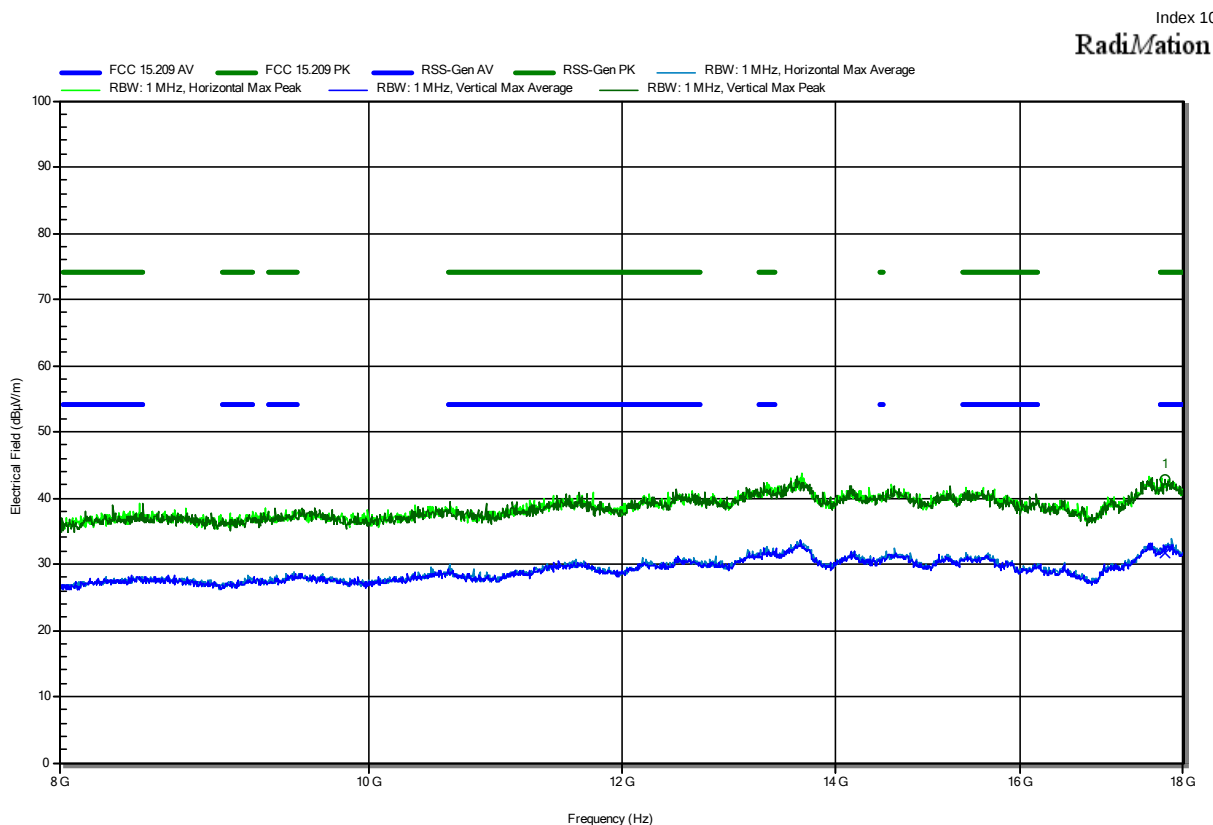
Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: R. Jaafar
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2402 MHz, PRBS9_193 Bytes
 Test Date: 2022-04-28
 Note:



Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: R. Jaafar
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2440 MHz, PRBS9_193 Bytes
 Test Date: 2022-04-28
 Note:



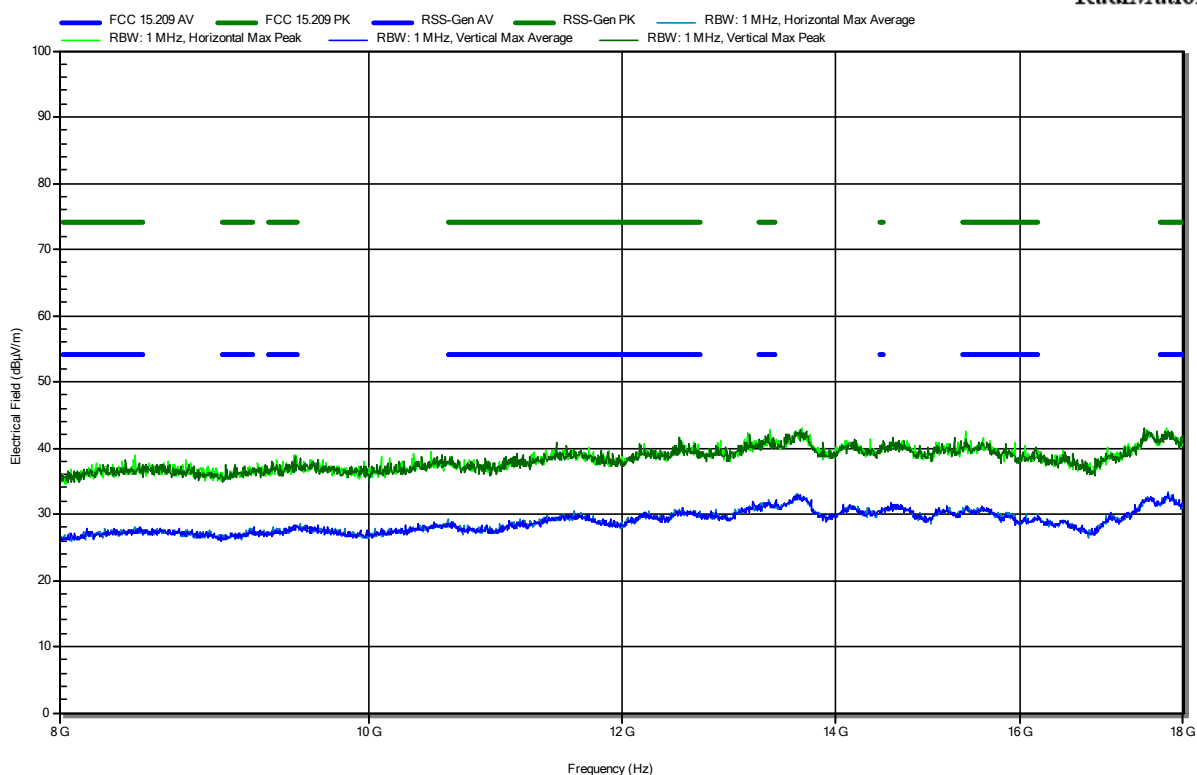
Frequency 17.762 GHz	Peak 42.87 dBV/m	Peak Limit 74 dBV/m	Peak Difference -31.13 dB	Peak Status Pass	Polarization Vertical
Frequency 17.762 GHz	Average 31.61 dBV/m	Average Limit 54 dBV/m	Average Difference -22.39 dB	Average Status Pass	Polarization Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: R. Jaafar
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2480 MHz, PRBS9_193 Bytes
 Test Date: 2022-04-28
 Note:

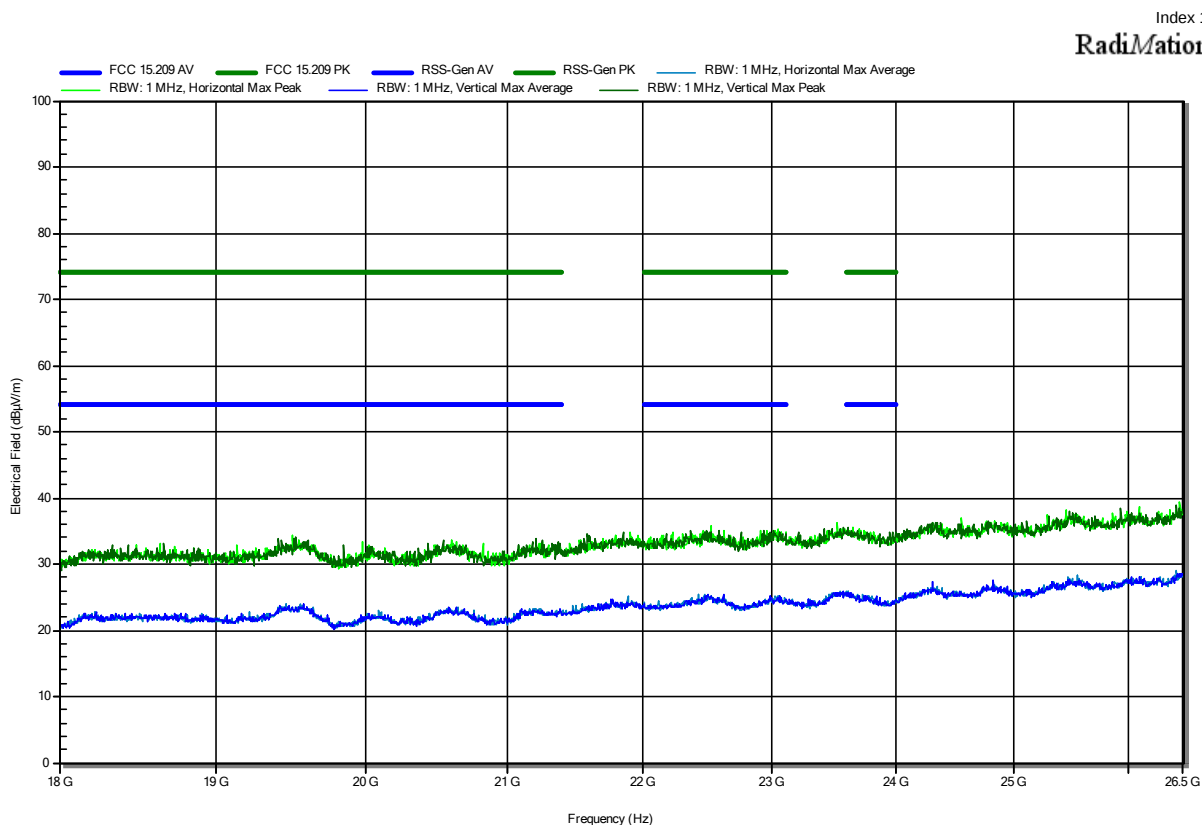
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RadiMation



Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: R. Jaafar
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2402 MHz, PRBS9_193 Bytes
 Test Date: 2022-04-28
 Note:

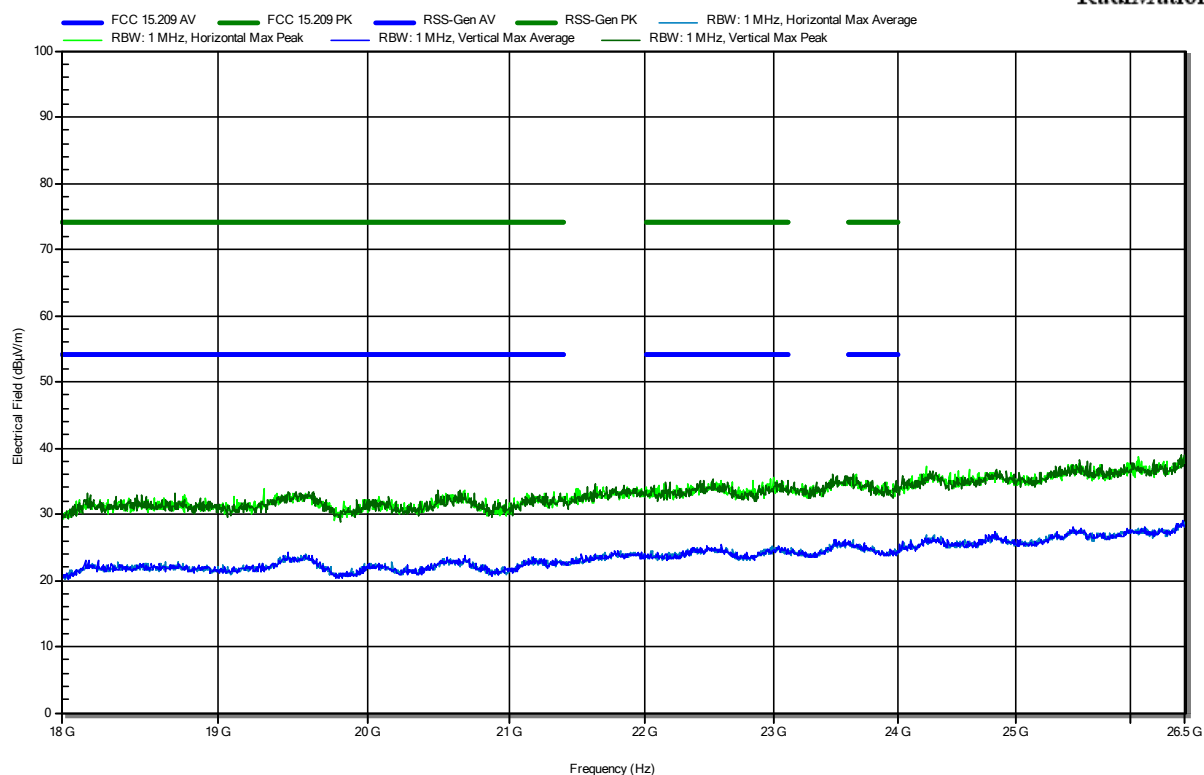


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: R. Jaafar
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2440 MHz, PRBS9_193 Bytes
 Test Date: 2022-04-28
 Note:

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RadiMation

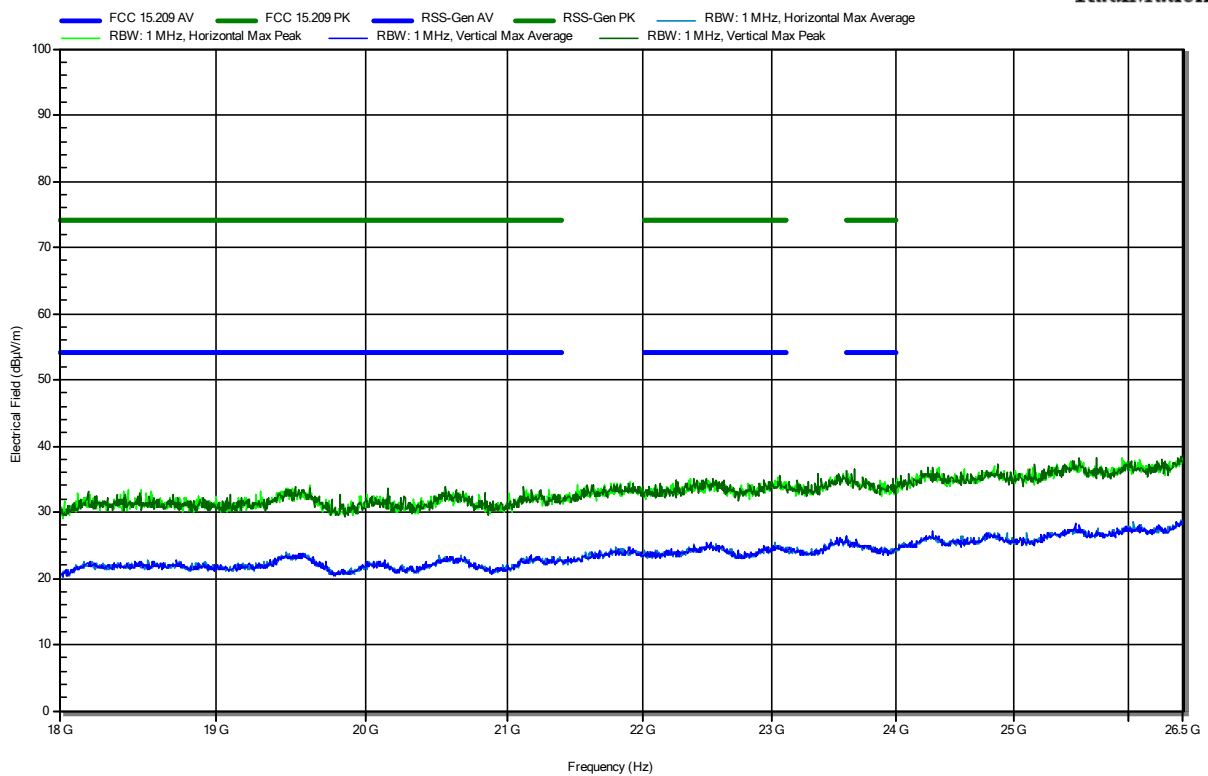


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: R. Jaafar
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 1 Mbps, 2480 MHz, PRBS9_193 Bytes
 Test Date: 2022-04-28
 Note:

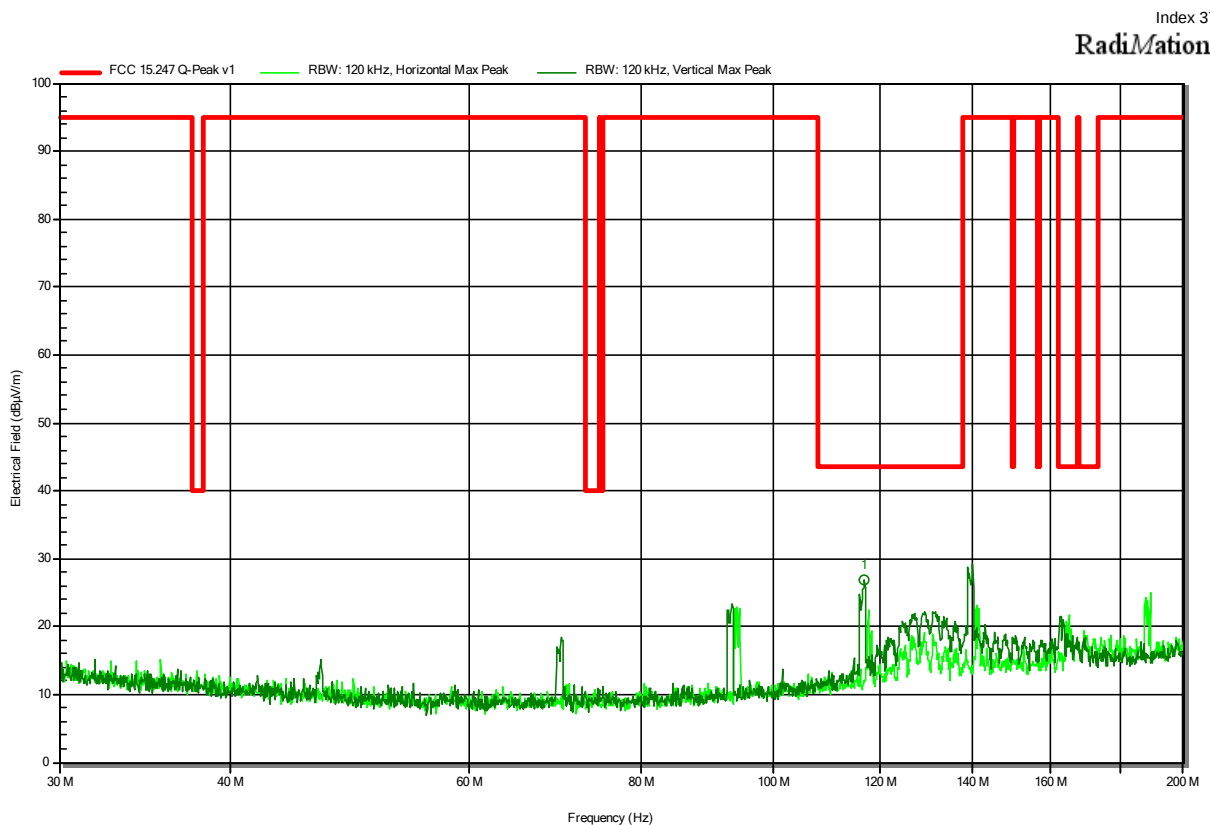
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RadiMation



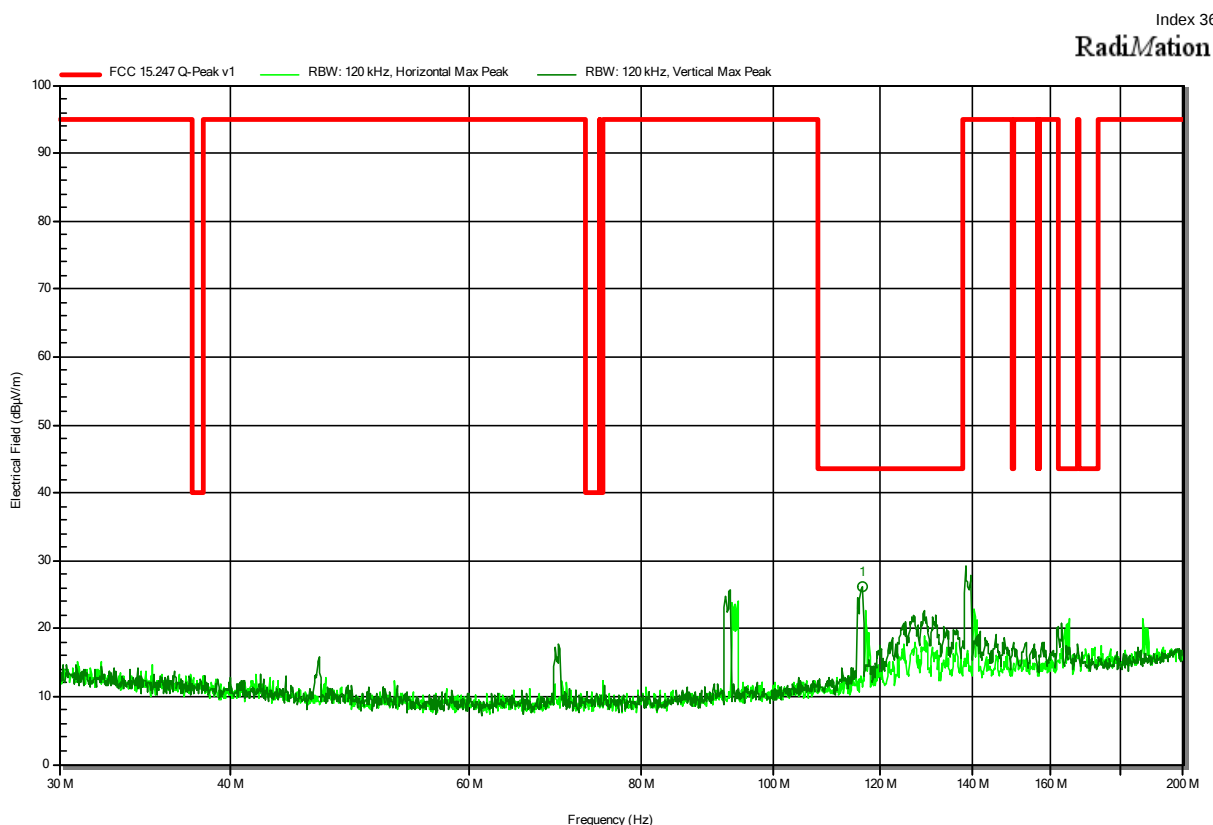
Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2402 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-05
 Note:



Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

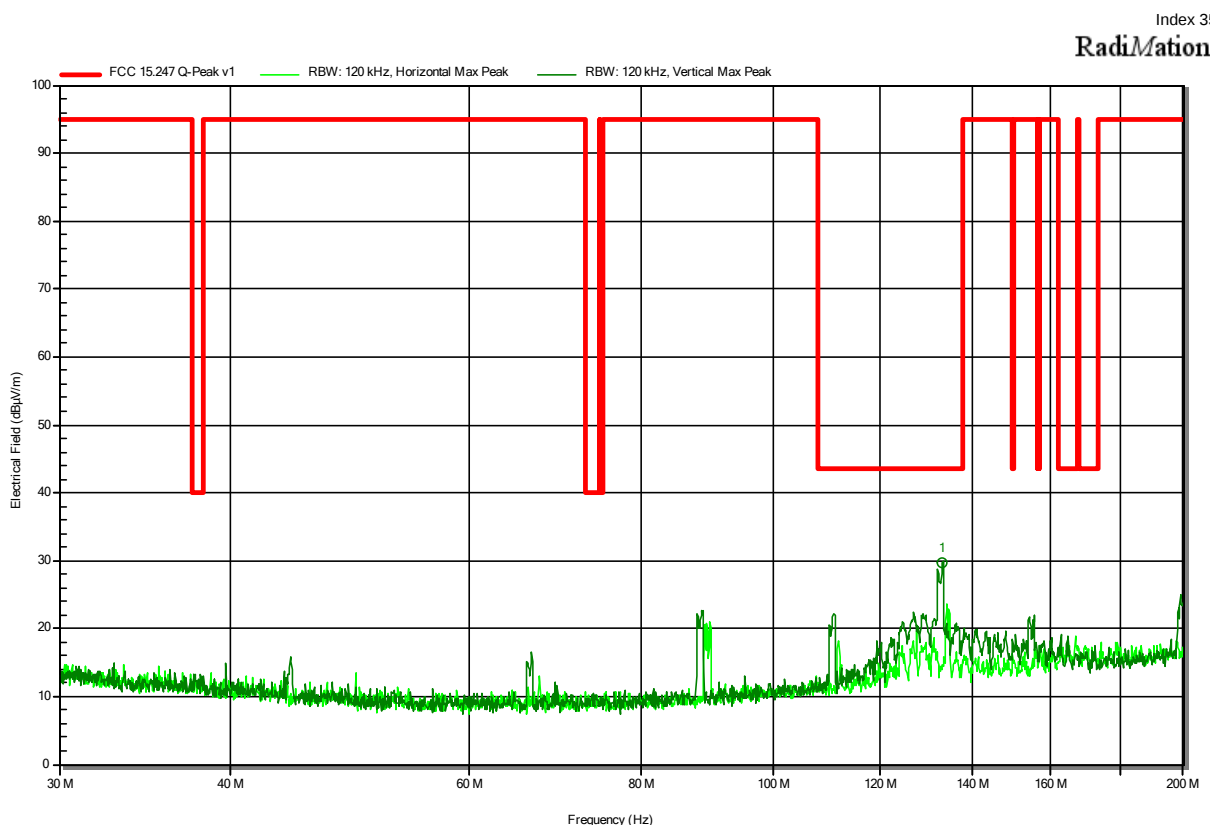
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2440 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-05
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
116.224 MHz	26.1 dBµV/m	43.5 dBµV/m	-17.39 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

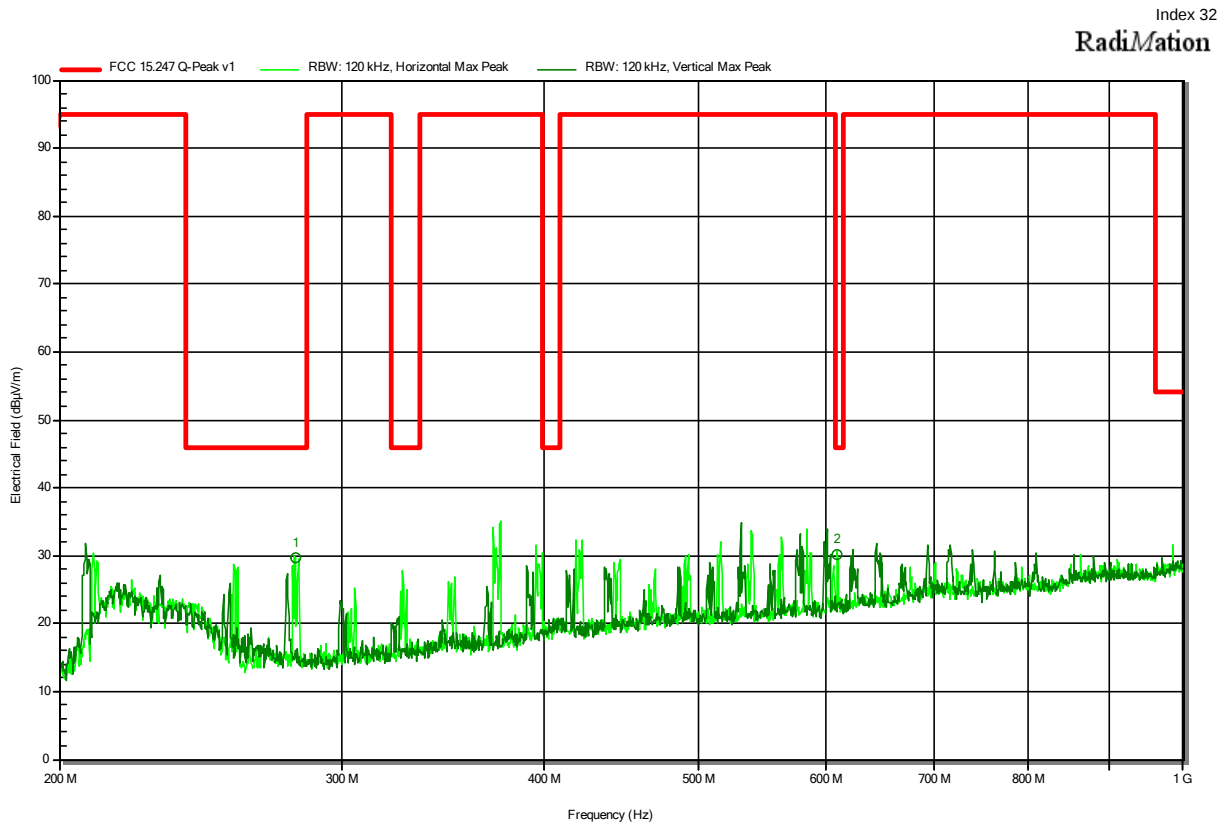
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2480 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-05
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
133.258 MHz	29.8 dBµV/m	43.5 dBµV/m	-13.74 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2402 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-05
 Note:



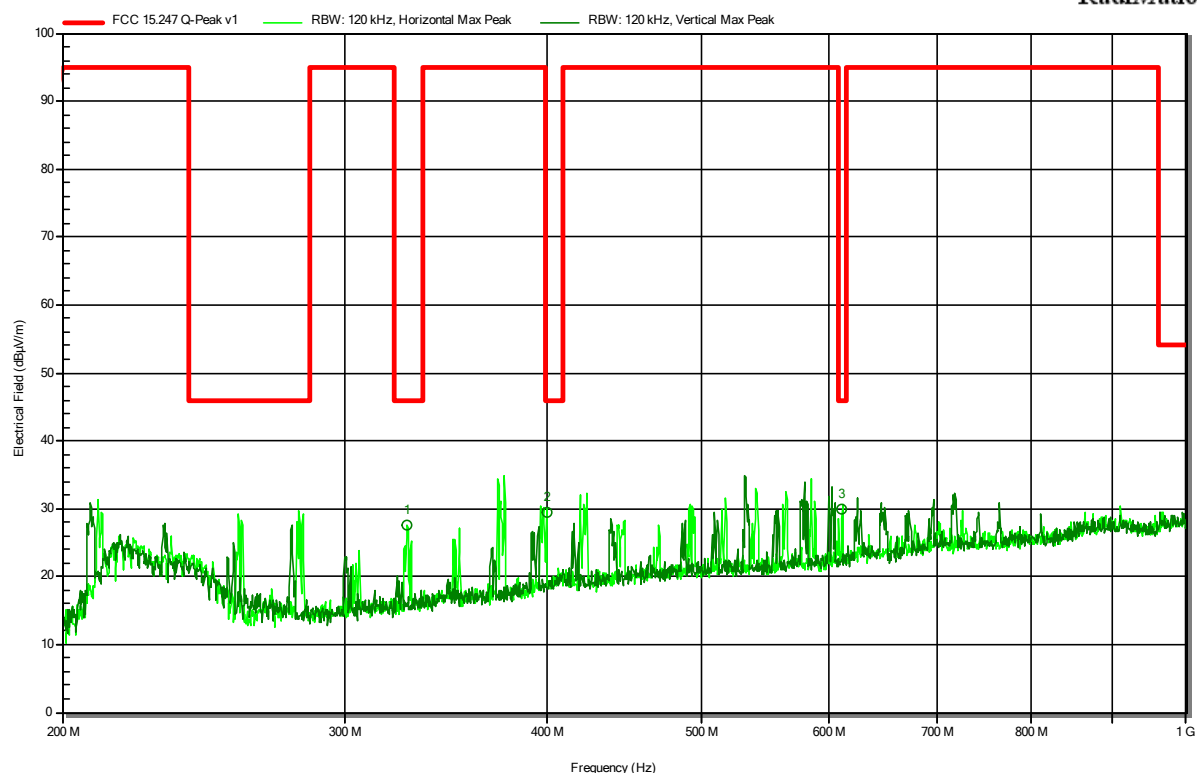
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
280.26 MHz	29.6 dBμV/m	46 dBμV/m	-16.36 dB	Pass	Horizontal
609.52 MHz	30.1 dBμV/m	46 dBμV/m	-15.94 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2440 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-05
 Note:

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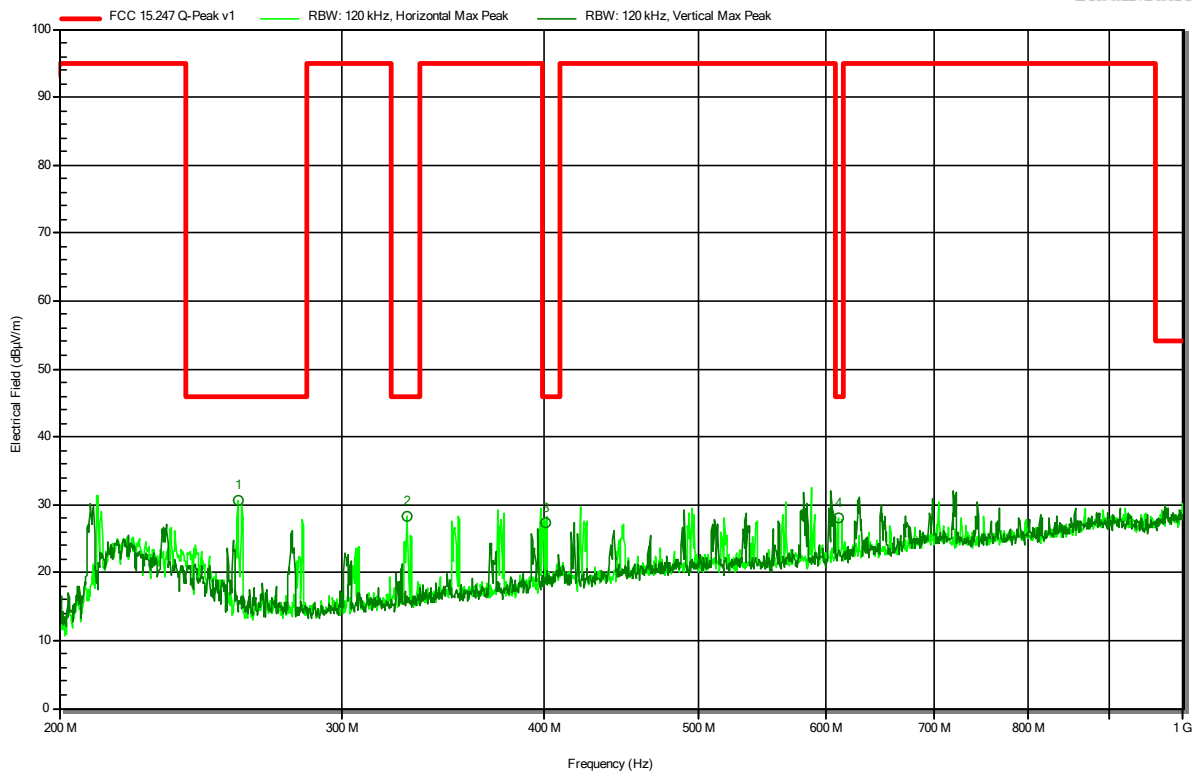
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
327.68 MHz	27.7 dBμV/m	46 dBμV/m	-18.33 dB	Pass	Horizontal
400.18 MHz	29.5 dBμV/m	46 dBμV/m	-16.5 dB	Pass	Horizontal
610.76 MHz	29.8 dBμV/m	46 dBμV/m	-16.16 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2480 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-05
 Note:

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RadiMation



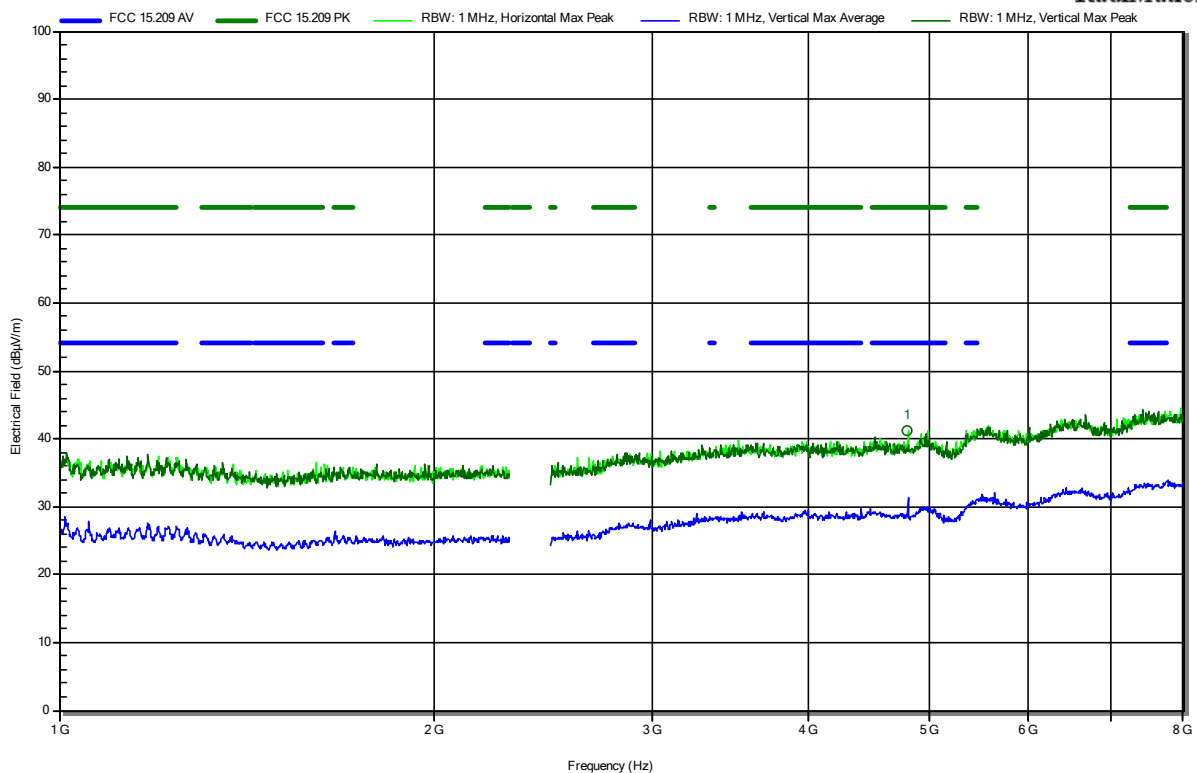
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
258.26 MHz	30.5 dBµV/m	46 dBµV/m	-15.47 dB	Pass	Horizontal
328.92 MHz	28.4 dBµV/m	46 dBµV/m	-17.64 dB	Pass	Horizontal
401.48 MHz	27.3 dBµV/m	46 dBµV/m	-18.72 dB	Pass	Horizontal
610.06 MHz	28.2 dBµV/m	46 dBµV/m	-17.83 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2402 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-13
 Note:

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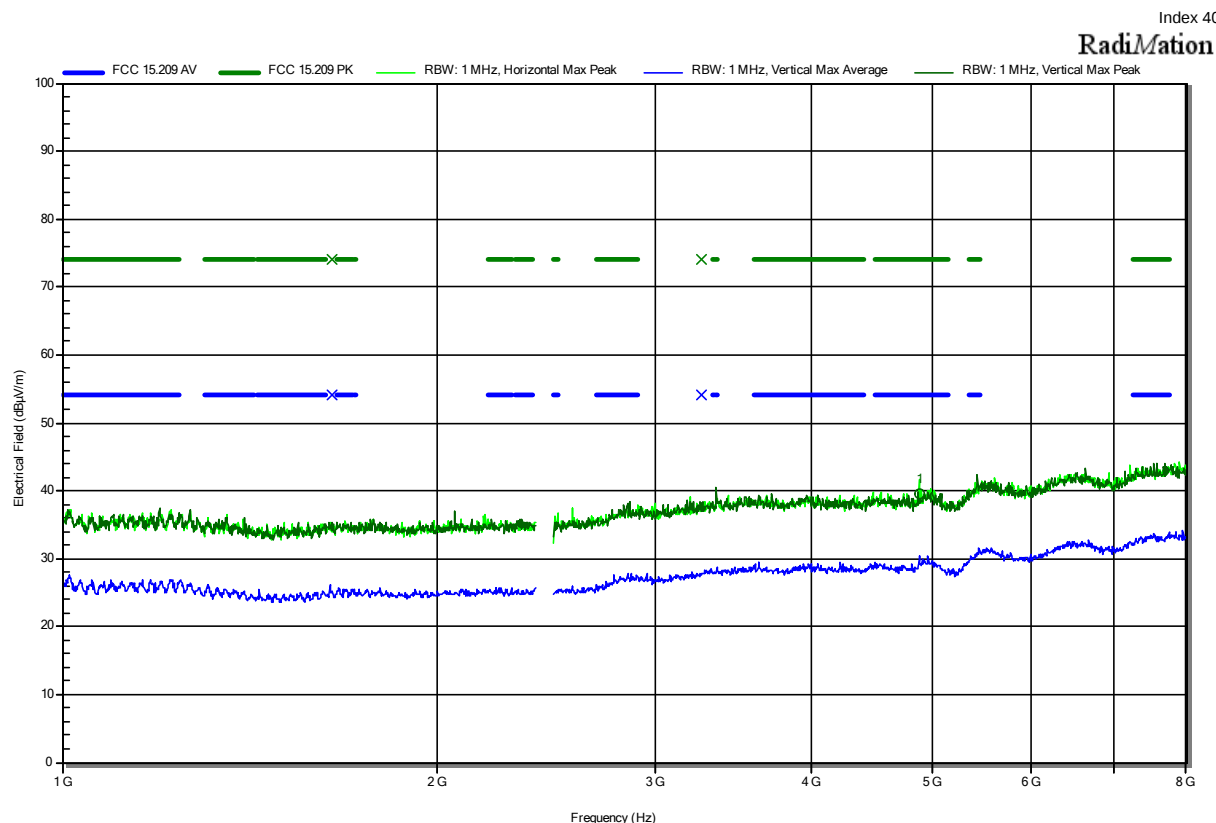
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8031 GHz	41.12 dBμV/m	74 dBμV/m	-32.88 dB	Pass	Horizontal
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8031 GHz	33.17 dBμV/m	54 dBμV/m	-20.83 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2440 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-13
 Note:

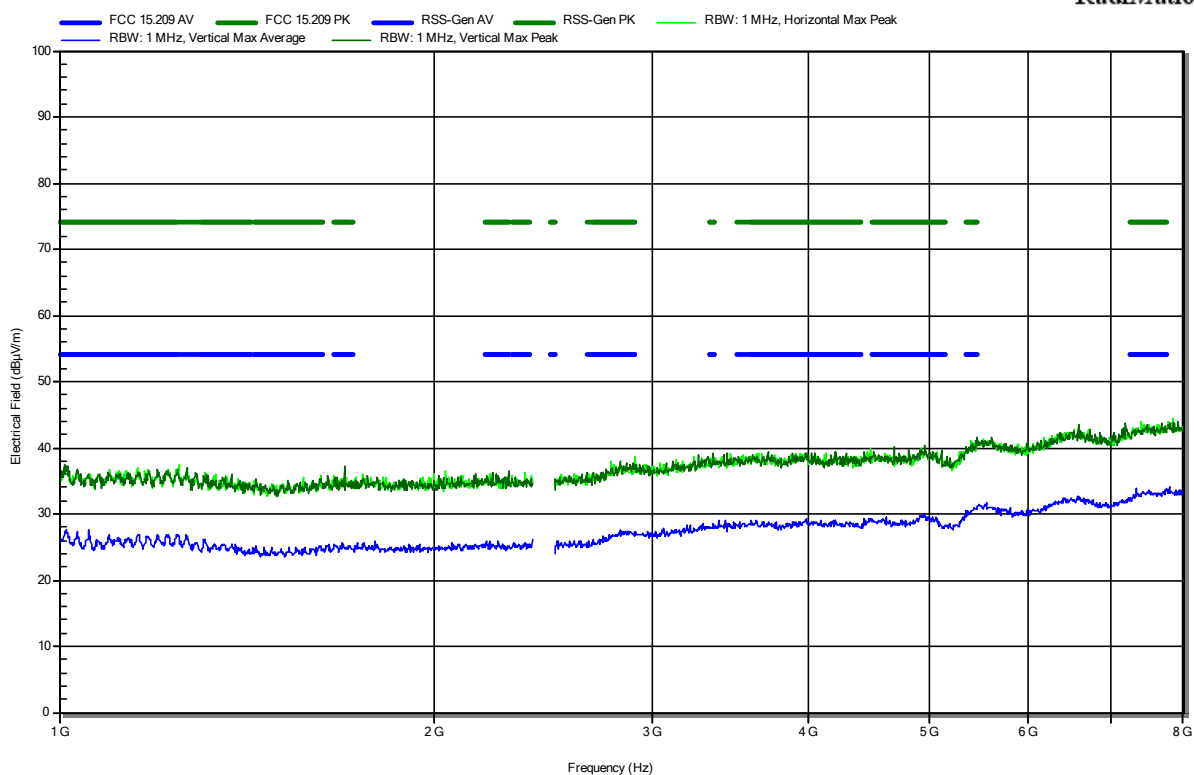


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2480 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-13
 Note:

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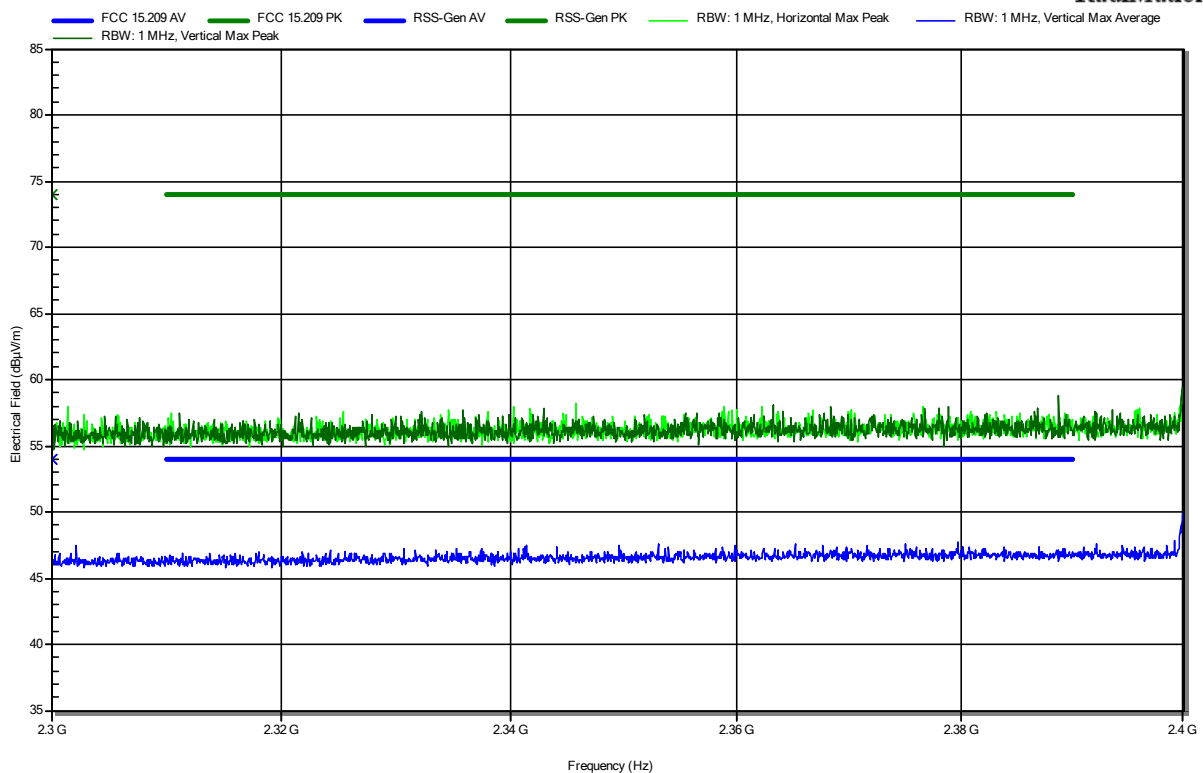


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2402 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-13
 Note: lower bandedge

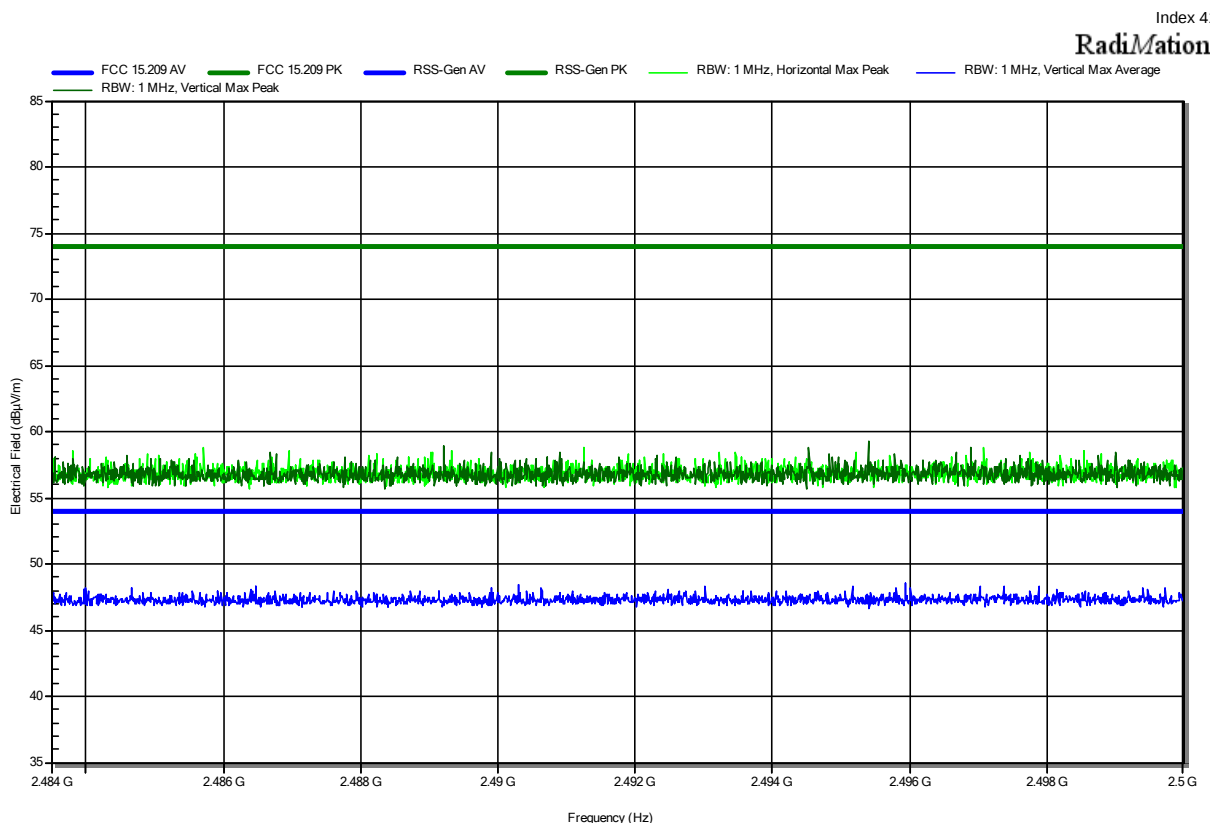
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RadiMation



Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2480 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-13
 Note: upper bandedge

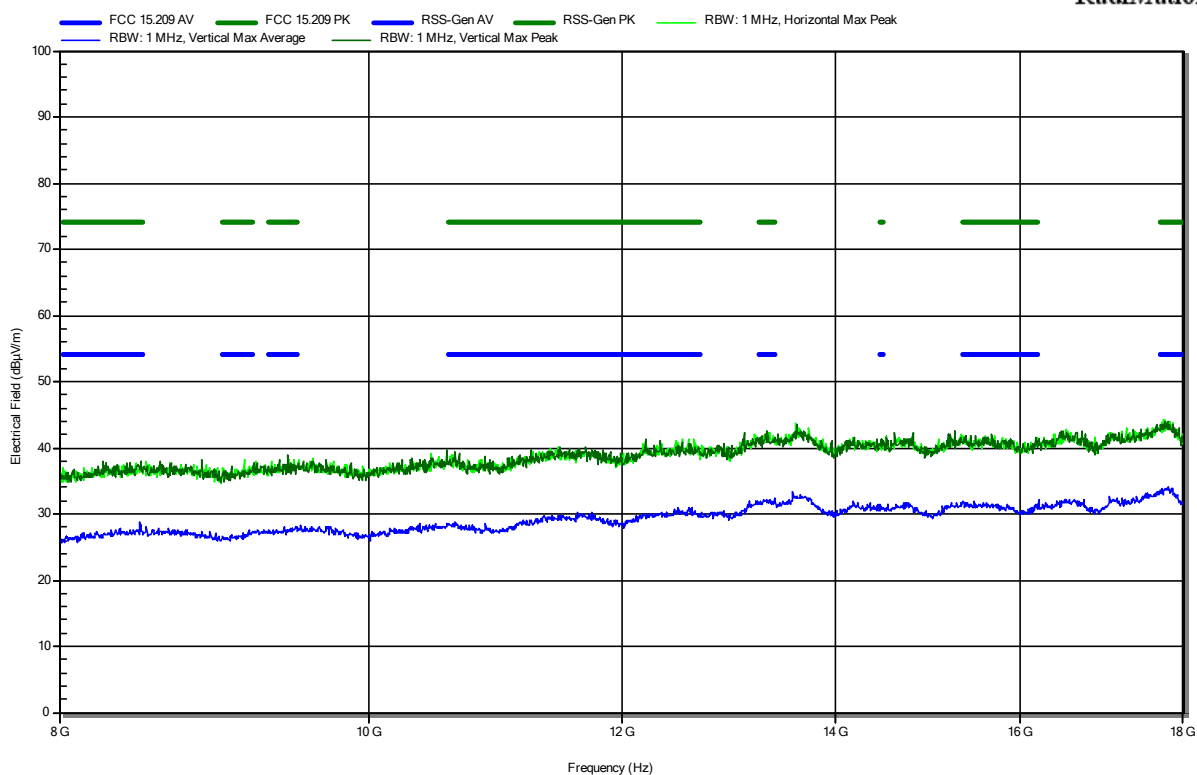


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2402 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-13
 Note:

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RadiMation

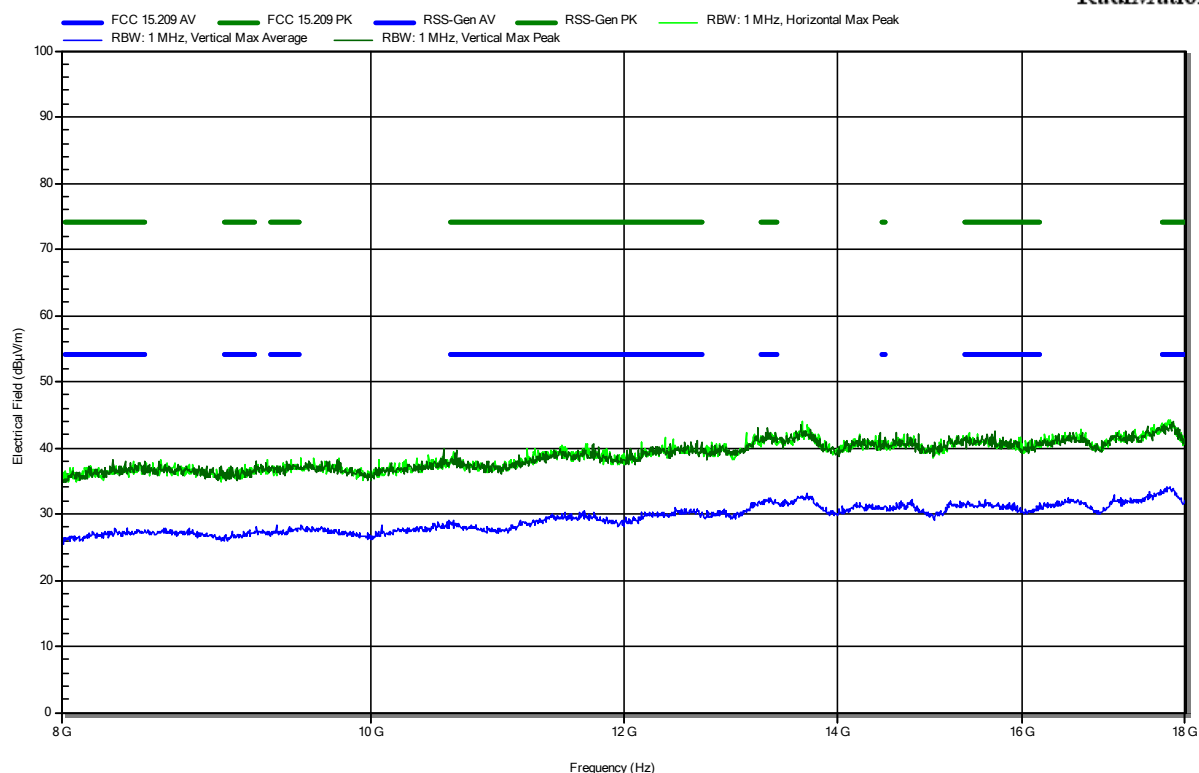


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2440 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-13
 Note:

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RadiMation

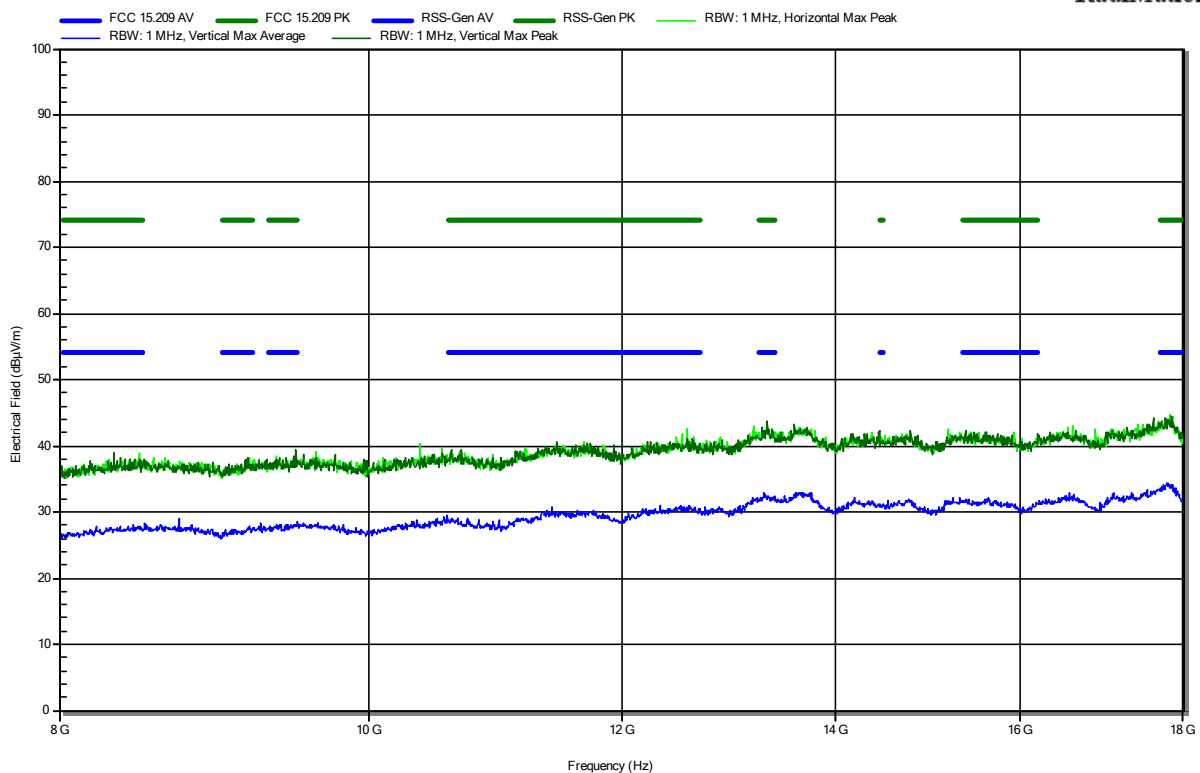


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2480 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-13
 Note:

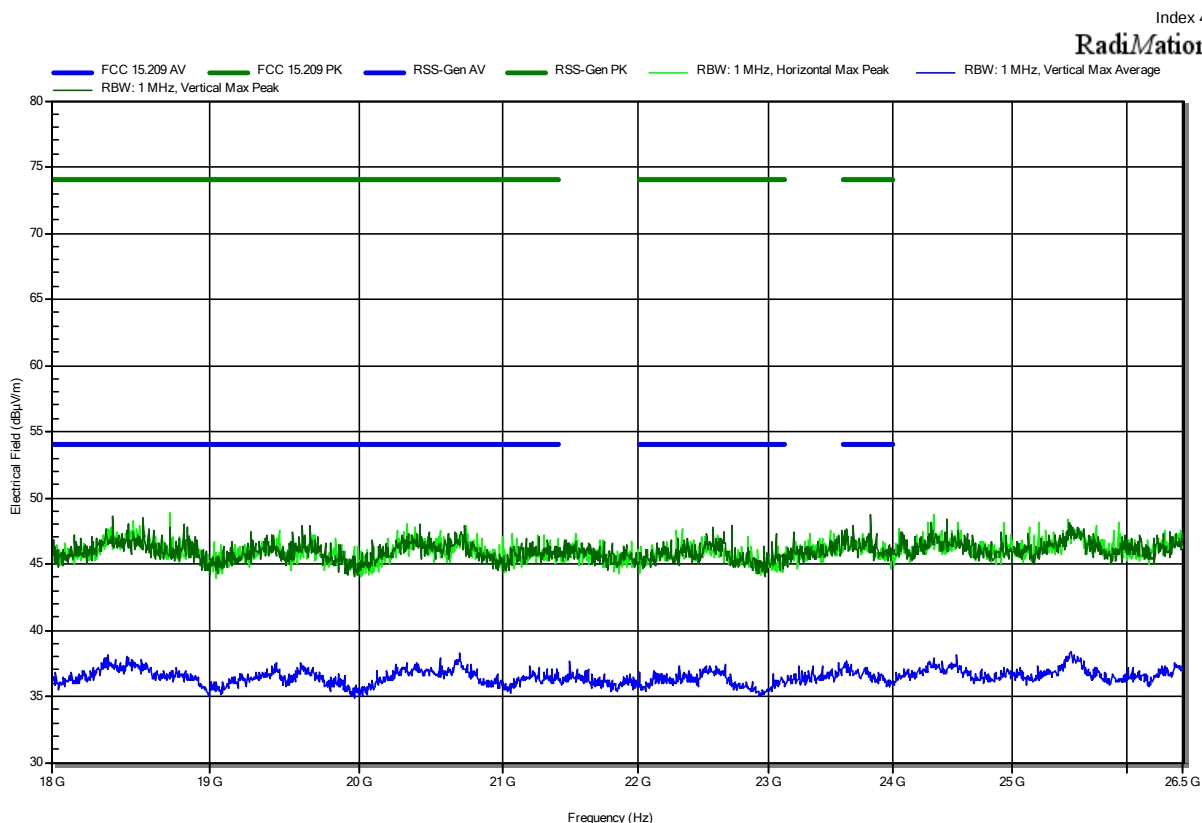
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RadiMation



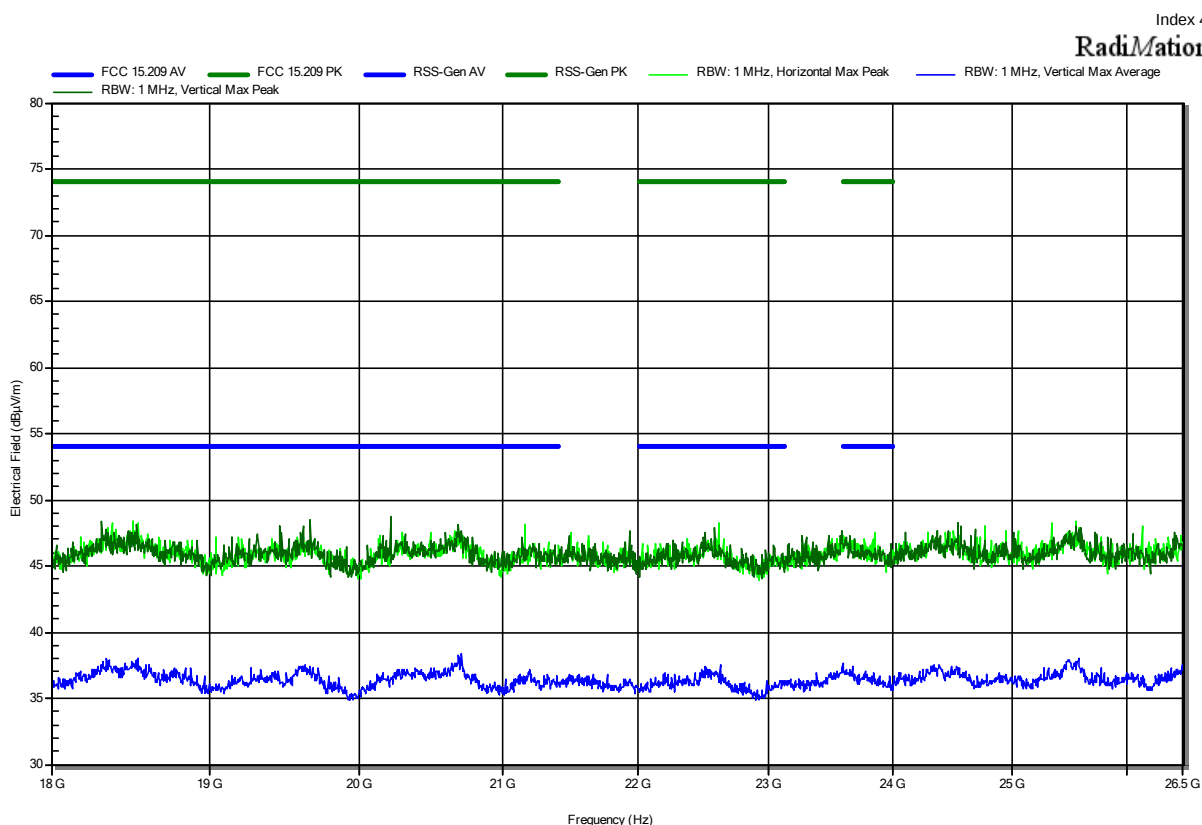
Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2402 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-13
 Note:



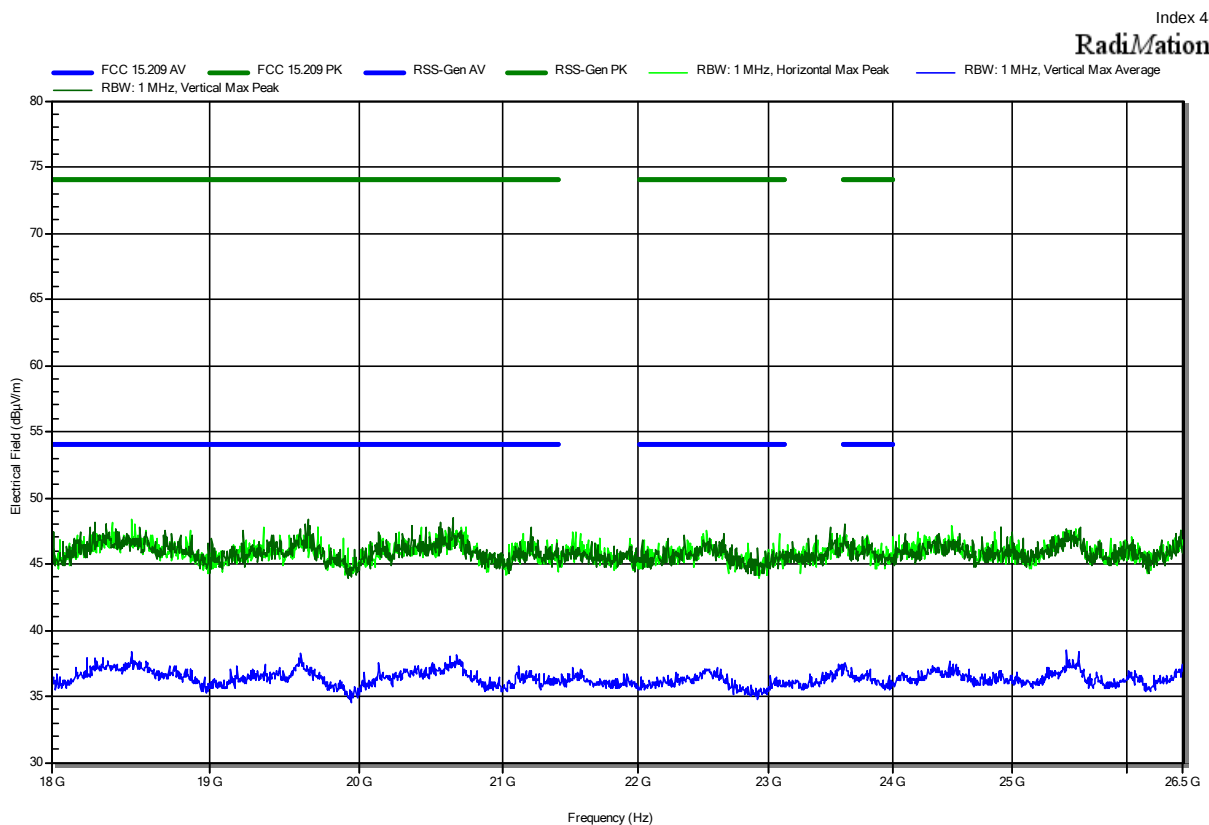
Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2440 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-13
 Note:



Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

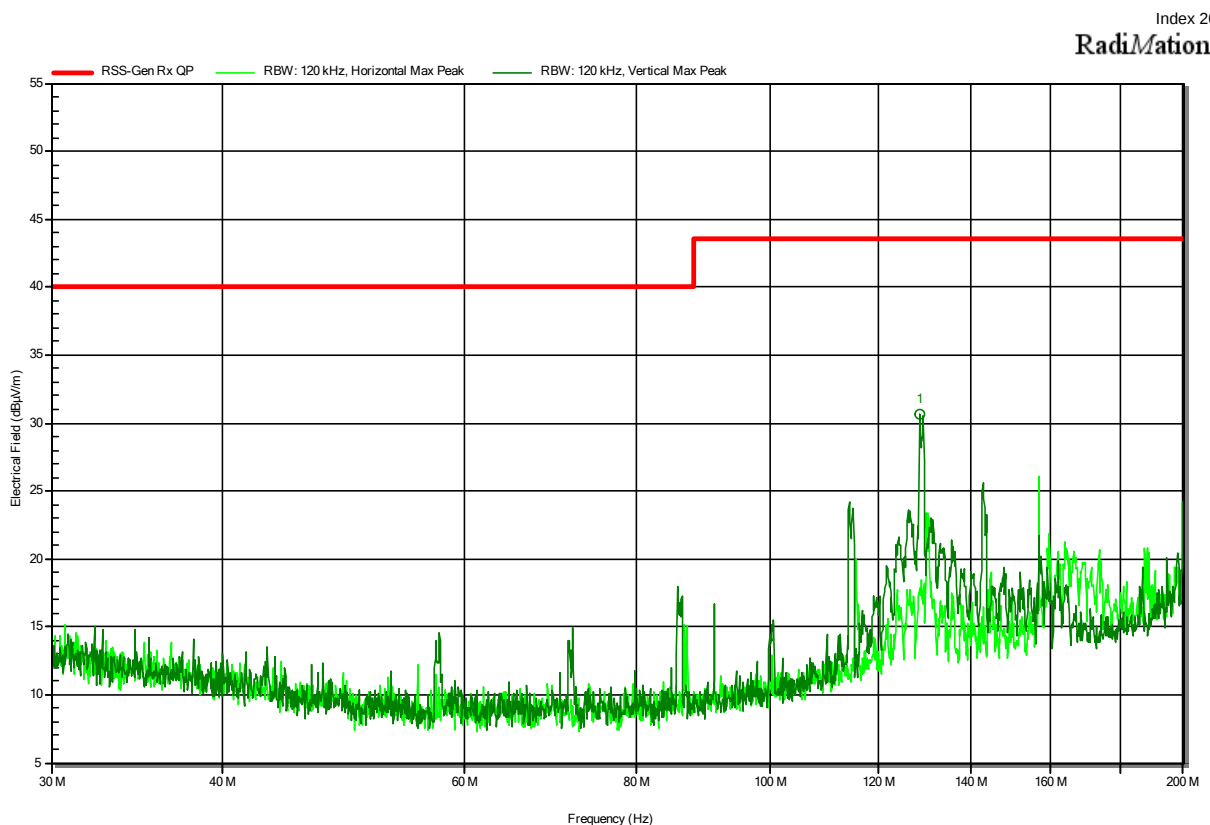
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 2 Mbps, 2480 MHz, PRBS9_239 Bytes
 Test Date: 2022-07-13
 Note:



ANNEX B Receiver spurious emissions

Radiated Spurious Emissions according to RSS-247 – Issue 2, RSS-Gen – Issue 5

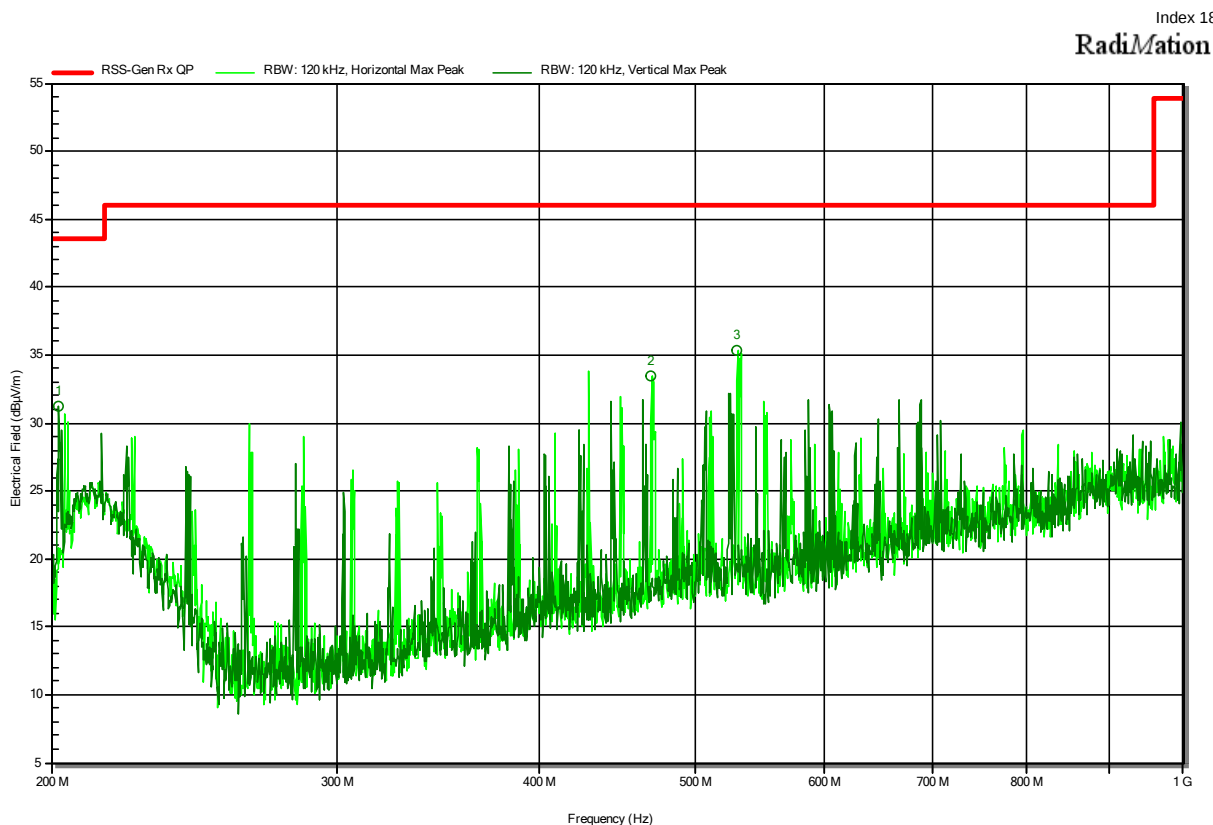
Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: RX; BLE, 2440 MHz
 Test Date: 2022-05-13
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
128.447 MHz	30.6 dBµV/m	43.5 dBµV/m	-12.91 dB	Pass	Vertical

Radiated Spurious Emissions according to RSS-247 – Issue 2, RSS-Gen – Issue 5

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Rx; BLE, 2440 MHz
 Test Date: 2022-05-13
 Note:

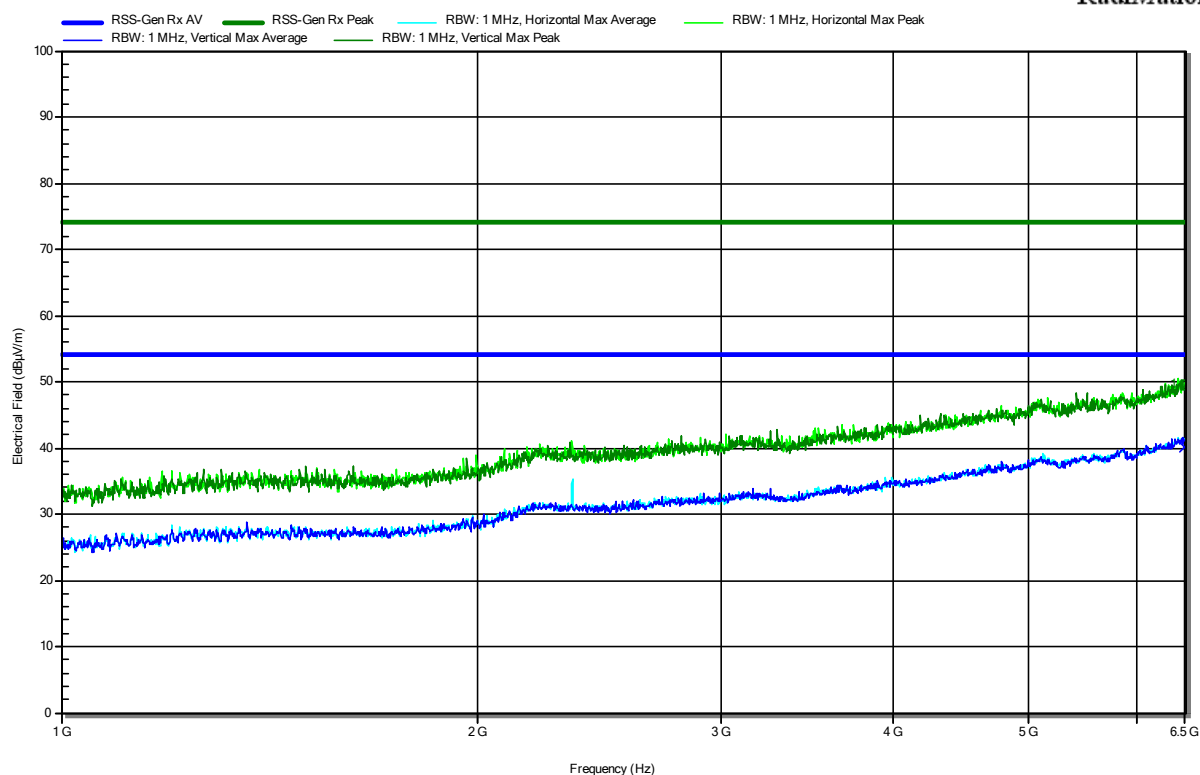


Radiated Spurious Emissions according to RSS-247 – Issue 2, RSS-Gen – Issue 5

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Rx; BLE, 2440 MHz
 Test Date: 2022-05-13
 Note:

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RadiMation



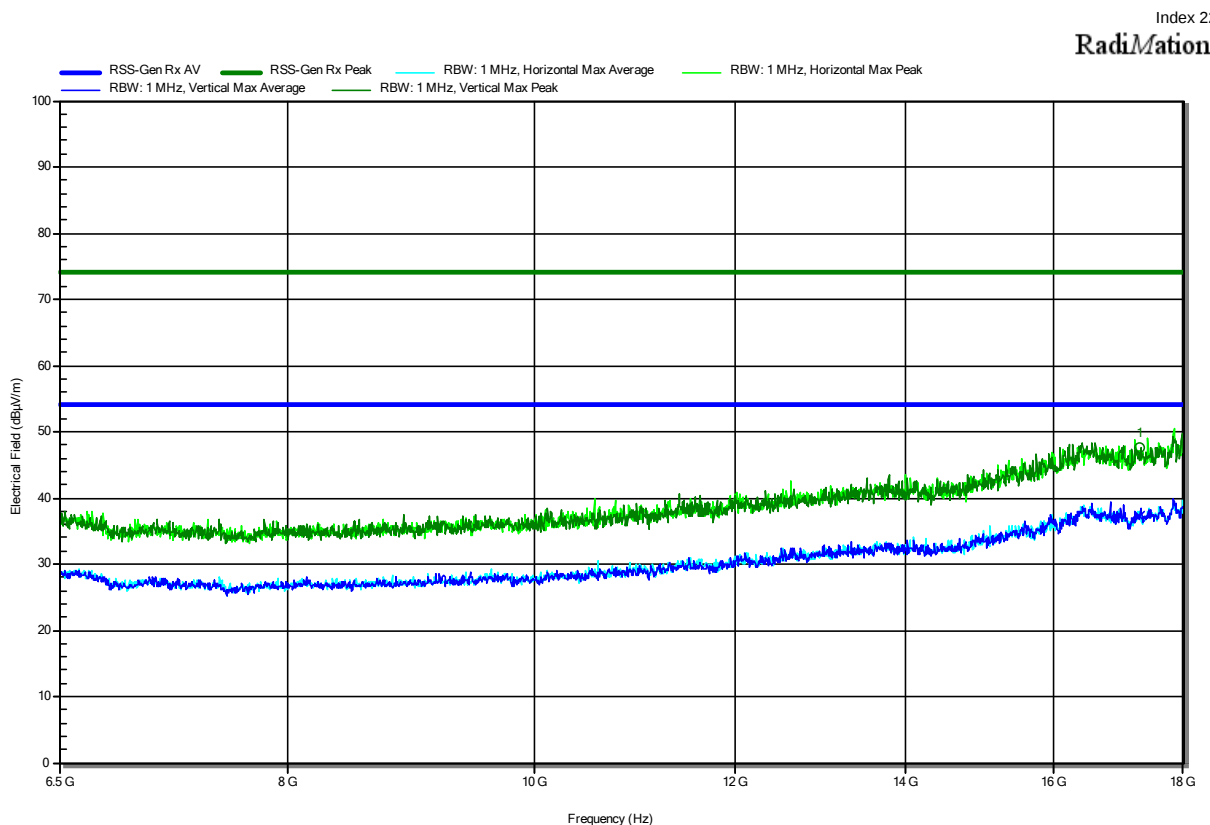
Frequency 6.493 GHz	Peak 49.52 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -24.48 dB	Peak Status Pass	Polarization Horizontal
Frequency 6.493 GHz	Average 40.04 dBµV/m	Average Limit 53.98 dBµV/m	Average Difference -13.94 dB	Average Status Pass	Polarization Horizontal

Test Report No.: G0M-2201-1252-TFC247BL-V01

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

Radiated Spurious Emissions according to RSS-247 – Issue 2, RSS-Gen – Issue 5

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 39436
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.85 V DC (Lithium Batt.)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Rx; BLE, 2440 MHz
 Test Date: 2022-05-13
 Note:



Frequency 17.312 GHz	Peak 47.53 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -26.47 dB	Peak Status Pass	Polarization Vertical
Frequency 17.312 GHz	Average 37.18 dBµV/m	Average Limit 53.98 dBµV/m	Average Difference -16.8 dB	Average Status Pass	Polarization Vertical

== = END OF TEST REPORT == =

Test Report No.: G0M-2201-1252-TFC247BL-V01

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