





FCC LISTED, REGISTRATION NUMBER: 720267

IC LISTED REGISTRATION NUMBER IC 4621A-1 Informe de ensayo nº: Test report No:

NIE: 49476RRF.002A1

Test report (Modification 1) USA FCC Part 15.247, 15.209 CANADA RSS-247, RSS-Gen

Radio Frequency Devices. Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz.

Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.

General Requirements and Information for the Certification of Radio Apparatus.

Identificación del objeto ensayado:	Bicycle Lock
Identification of item tested	
Marca: Trademark	AXA
Modelo y/o referencia tipo: Model and /or type reference	AXA E-RL
Other identification of the product:	FCC ID: 2AIQH-AXA-ERL-01 IC: 21586-AXAERL01
Final HW version:	V1.1
Final SW version:	V1.0
Características: Features	Bluetooth Low Energy
Fabricante:	AXA STENMAN NEDERLAND B.V.
Manufacturer	Energiestraat 2, 3903 AV Veenendaal, Netherlands
Método de ensayo solicitado, norma: Test method requested, standard	USA FCC Part 15.247 10-1-15 Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz.
	USA FCC Part 15.209 10-1-15 Edition: Radiated emission limits; general requirements.
	CANADA RSS-247 Issue 1 (May 2015).
	CANADA RSS-Gen Issue 4 (November 2014).
	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v03r05 dated 04/08/2016.
	ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Resultado :: Summary	IN COMPLIANCE





Aprobado por (nombre / cargo y firma): Approved by (name / position & signature)	A. Llamas RF Lab. Manager
Fecha de realización: Date of issue	2016-06-23
Formato de informe No: Report template No	FDT11_18





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Competences and guarantees

AT4 wireless is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

AT4 wireless is a laboratory with a measurement facility in compliance with the requirements of Section 2.948 of the FCC rules and has been added to the list of facilities whose measurements data will be accepted in conjuction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Registration Number: 720267.

AT4 wireless is a laboratory with a measurement site in compliance with the requirements of RSS 212, Issue 1 (Provisional) and has been added to the list of filed sites of the Canadian Certification and Engineering Bureau. Reference File Number: IC 4621A-1.

In order to assure the traceability to other national and international laboratories, AT4 wireless has a calibration and maintenance program for its measurement equipment.

AT4 wireless guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at AT4 wireless at the time of performance of the test.

AT4 wireless is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of AT4 wireless.

General conditions

- 1. This report is only referred to the item that has undergone the test.
- 2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
- 3. This document is only valid if complete; no partial reproduction can be made without previous written permission of AT4 wireless.
- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of AT4 wireless and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the AT4 wireless internal document PODT000.

Usage of samples

Samples undergoing test have been selected by: the client

Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
49476/003	Bluetooth Low Energy lock with integral antenna	AXA E-RL		2016-05-09

1. Sample S/01 has undergone following test(s).

All radiated tests indicated in appendix A.





Sample S/02 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
49476/002	Bluetooth Low Energy lock with antenna connector	AXA E-RL		2016-05-09

1. Sample S/02 has undergone following test(s).

All conducted tests indicated in appendix A.

Test sample description

The test sample consists of an electronic bicycle lock which can be opened by the use of a mobile phone.

Identification of the client

AXA STENMAN NEDERLAND B.V.

Energiestraat 2, 3903 AV Veenendaal, Netherlands

Testing period

The performed test started on 2016-05-09 and finished on 2016-05-18.

The tests have been performed at AT4 wireless.

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %
Shielding effectiveness	> 100 dB
Electric insulation	$> 10 \text{ k}\Omega$
Reference resistance to earth	<1Ω





In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %
Air pressure Min. = 860 mbar Max. = 1060 mbar	
Shielding effectiveness	> 100 dB
Electric insulation	$> 10 \text{ k}\Omega$
Reference resistance to earth	<1Ω
Normal site attenuation (NSA)	< ±4 dB at 10 m distance between item under test and receiver antenna, (30 MHz to 1000 MHz)
Field homogeneity	More than 75% of illuminated surface is between 0 and 6 dB (26 MHz to 1000 MHz).

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar
Shielding effectiveness	> 100 dB
Electric insulation	$> 10 \text{ k}\Omega$
Reference resistance to earth	< 1 Ω

Modifications to the reference test report

It was introduced the following modifications in respect to the test report number 49476RRF.002 related with the same samples, in the next clauses and sub-clauses:

Clauses / Sub-clauses	Modification	Justification
Cover sheet	Model name is changed to AXA E-RL	Client's request
	Inclusion of FCC ID and IC codes for Other identification of the product	Requested by Certification Body
Usage of samples	Model name in tables is changed to AXA E-RL	Client's request

This modification test report cancels and replaces the test report 49476RRF.002.

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Remarks and comments

1: Used instrumentation:

Conducted Measurements

1.	Spectrum analyser Agilent E4440A	Last Cal. date 2015/10	Cal. due date 2017/10
2.	DC power supply R&S NGPE 40/40	2014/11	2017/11
Radiat	ed Measurements	Loot Cal. data	Cal dua data
	Semianechoic Absorber Lined Chamber ETS FACT3	Last Cal. date	Cal. due date
1.	200STP	N.A.	N.A.
2.	BiconicalLog antenna ETS LINDGREN 3142E	2014/03	2017/03
3.	Multi Device Controller EMCO 2090	N.A.	N.A.
4.	Double-ridge Guide Horn antenna 1-18 GHz SCHWARZBECK BBHA 9120 D	2013/11	2016/11
5.	Broadband Horn antenna 18-40 GHz SCHWARZBECK BBHA 9170	2014/03	2017/03
6.	EMI Test Receiver R&S ESU 40	2016/03	2018/03
7.	Spectrum analyser Rohde & Schwarz FSW50	2015/12	2017/12
8.	RF pre-amplifier 10 MHz-6 GHz SCHWARZBECK BBV9743	2015/09	2016/09
9.	RF pre-amplifier 1-18 GHz Bonn Elektronik BLMA 0118-1M	2016/02	2018/02
10.	RF pre-amplifier 18-40 GHz BONN ELEKTRONIK BLMA 1840-1M	2015/12	2017/12

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Testing verdicts

Not applicable:	N/A
Pass:	P
Fail:	F
Not measured:	N/M

FCC PART 15 PARAGRAPH / RSS-247		VERDICT			
		NA	P	F	NM
Section 15.247 Subclause (a) (2) / RSS-247 5.2. (1)	6 dB Bandwidth		P		
Section 15.247 Subclause (b) / RSS-247 5.4. (4)	Maximum output power and antenna gain		P		
Section 15.247 Subclause (d) / RSS-247 5.5	Emission limitations conducted (Transmitter)	Р			
Section 15.247 Subclause (d) / RSS-247 5.5	Band-edge emissions compliance (Transmitter)		P		
Section 15.247 Subclause (e) / RSS-247 5.2. (2)	Power spectral density		P		
Section 15.247 Subclause (d) / RSS-247 5.5	Emission limitations radiated (Transmitter)		P		

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Appendix A – Test result (Bluetooth Low Energy)

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TEST CONDITIONS

Power supply (V):

 $V_{nominal} = 3.0 \text{ Vdc}$

Type of power supply = DC voltage from battery.

Type of antenna = Integral antenna.

Declared Gain for antenna (maximum) = -2 dBi

TEST FREQUENCIES:

Lowest channel: 2402 MHz Middle channel: 2440 MHz Highest channel: 2480 MHz

CONDUCTED MEASUREMENTS

The equipment under test was set up in a shielded room and it is connected to the spectrum analyzer using a calibrated low loss RF cable. The reading in the spectrum analyzer is corrected with the cable loss.



RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m for the frequency range 30 MHz-1000 MHz (30 MHz-1000 MHz Bilog antenna) and at a distance of 1m for the frequency range 1 GHz-25 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40 GHz horn antenna).

For radiated emissions in the range 1 GHz-25 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

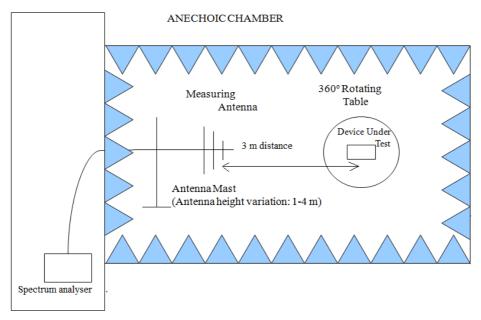
The equipment under test was set up on a non-conductive (wooden) platform 1.5 meter above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.



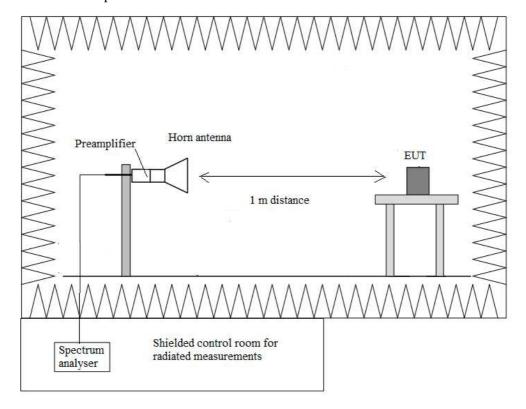


Radiated measurements setup f < 1 GHz



Shielded Control Room For Radiated Measurements

Radiated measurements setup f > 1 GHz



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Occupied Bandwidth

RESULTS

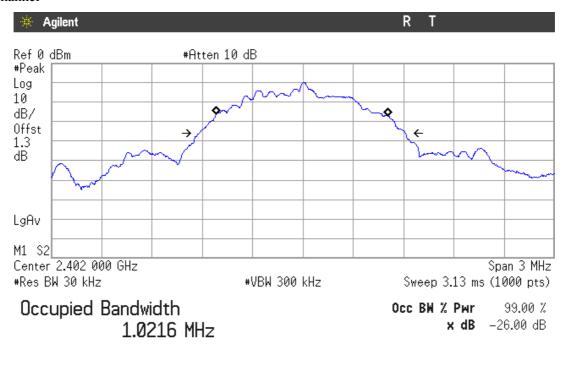
(see next plots).

	Lowest frequency	Middle frequency	Highest frequency
	2402 MHz	2440 MHz	2480 MHz
99% bandwidth (MHz)	1.022	1.018	1.024
-26 dBc bandwidth (MHz)	1.231	1.231	1.231
Measurement uncertainty (kHz)		<± 5.0	



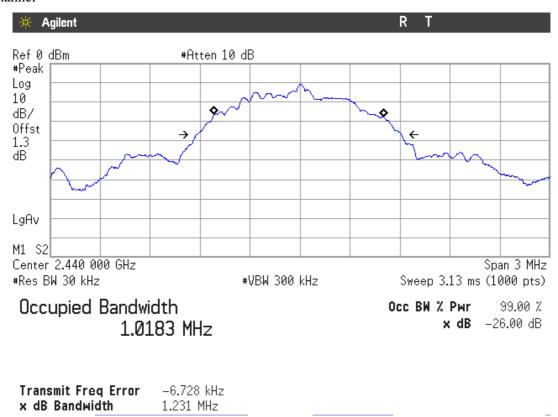


Lowest Channel



Transmit Freq Error -4.367 kHz x dB Bandwidth 1.231 MHz

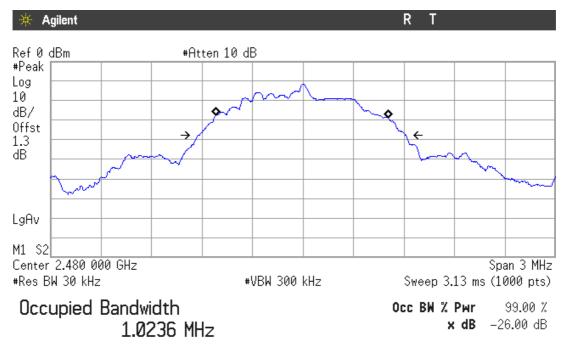
Middle Channel







Highest channel



Transmit Freq Error -7.022 kHz x dB Bandwidth 1.231 MHz





Section 15.247 Subclause (a) (2) / RSS-247 5.2. (1). 6 dB Bandwidth

SPECIFICATION

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

6 dB Bandwidth (see next plots).

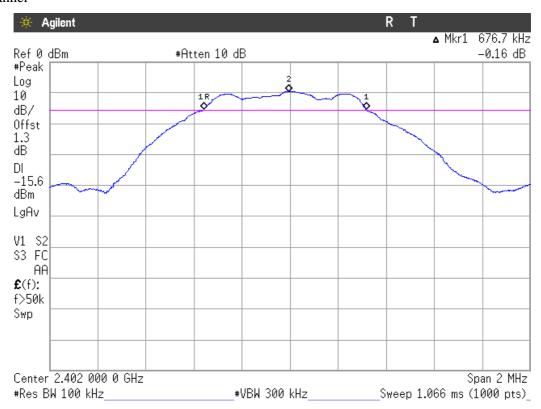
	Lowest frequency	Middle frequency	Highest frequency
	2402 MHz	2440 MHz	2480 MHz
6 dB Spectrum bandwidth (kHz)	676.7	678.7	680.7
Measurement uncertainty (kHz)		<±11.0	



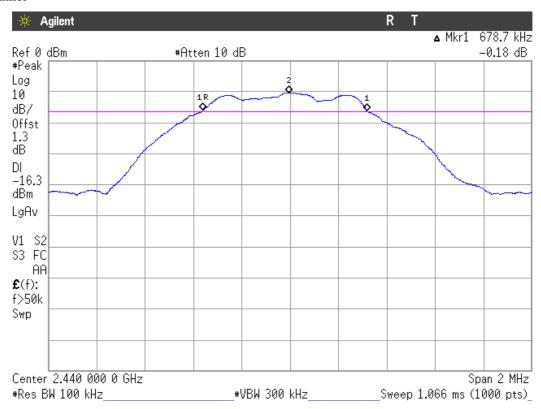


6 dB BANDWIDTH.

Lowest Channel



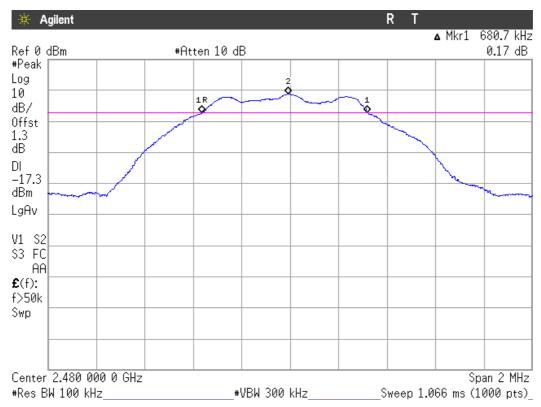
Middle Channel







Highest Channel







Section 15.247 Subclause (b) / RSS-247 5.4. (4). Maximum output power and antenna gain

SPECIFICATION

For systems using digital modulation in the 2400-2483.5 MHz band: 1 watt (30 dBm). The e.i.r.p. shall not exceed 4 W (36 dBm) (Canada).

RESULTS

The maximum peak conducted output power was measured using the method according to point 9.1.1. of Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v03r05 dated 04/08/2016.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power.

MAXIMUM OUTPUT POWER. See next plots.

Maximum declared antenna gain: -2 dBi.

	Lowest frequency	Middle frequency	Highest frequency
	2402 MHz	2440 MHz	2480 MHz
Maximum conducted power (dBm)	-9.51	-10.18	-11.12
Maximum EIRP power (dBm)	-11.51	-12.18	-13.12
Measurement uncertainty (dB)		<±0.78	

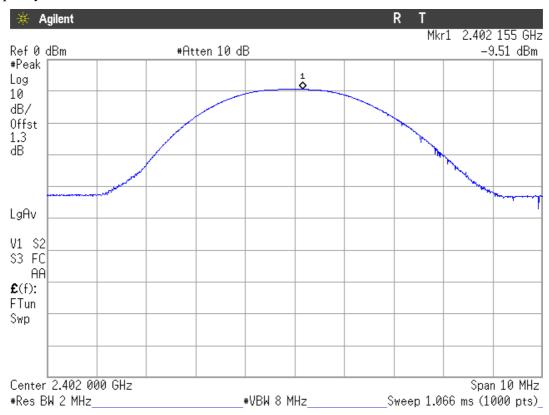
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.



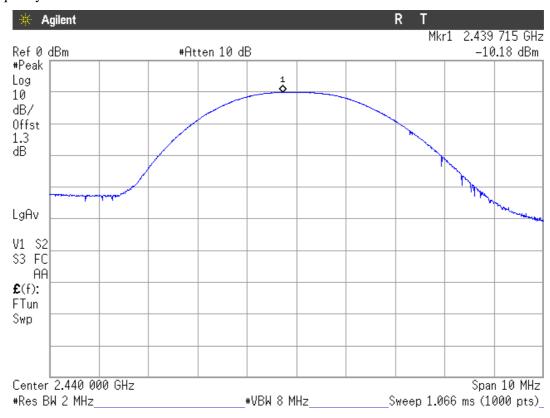


CONDUCTED PEAK POWER.

Lowest frequency



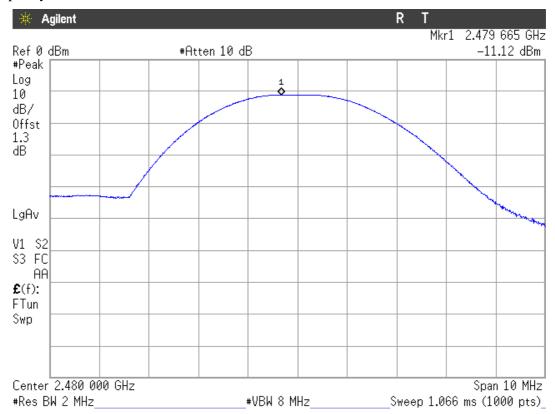
Middle frequency







Highest frequency







Section 15.247 Subclause (d) / RSS-247 5.5. Emission limitations conducted (Transmitter)

SPECIFICATION

In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

RESULTS:

Reference Level Measurement

	Lowest frequency	Middle frequency	Highest frequency
	2402 MHz	2440 MHz	2480 MHz
Reference Level Measurement (dBm)	-9.56	-10.34	-11.32
Measurement uncertainty (dB)		<±2.03	

Lowest frequency 2402 MHz:

Bowest frequency 210	/2 TITLE:				
Spurious frequency (GHz)	Measured level (dBm)	Cable loss (dB)	Offset (dB)	Corrected level (dBm)	Limit (dBm)
4.804	-40.20	2.06	1.3	-39.44	-29.56
7.206	-44.04	2.51	1.3	-42.83	-29.56

Middle frequency 2440 MHz:

Spurious frequency (GHz)	Measured level (dBm)	Cable loss (dB)	Offset (dB)	Corrected level (dBm)	Limit (dBm)
4.880	-38.10	2.11	1.3	-37.29	-30.34
7.319	-45.01	2.56	1.3	-43.75	-30.34

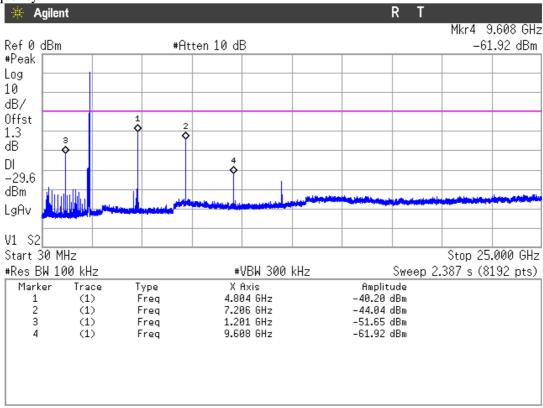
Highest frequency 2480 MHz:

Spurious frequency (GHz)	Measured level (dBm)	Cable loss (dB)	Offset (dB)	Corrected level (dBm)	Limit (dBm)
4.959	-38.18	2.16	1.3	-37.32	-31.32
7.438	-45.14	2.60	1.3	-43.84	-31.32



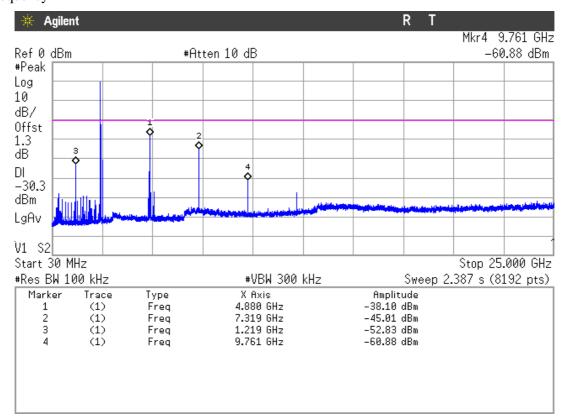


Lowest frequency



Note: The peak shown in the plot above the limit is the carrier frequency.

Middle frequency

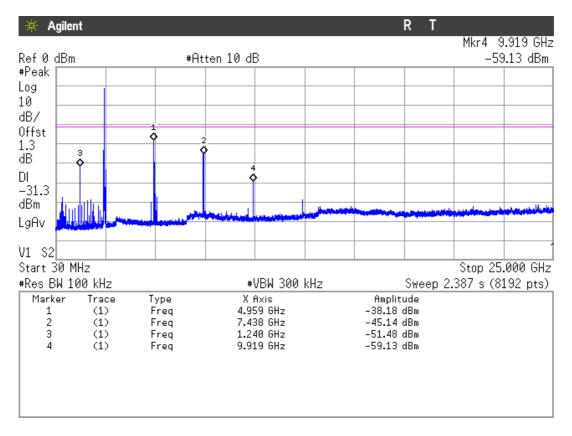


Note: The peak shown in the plot above the limit is the carrier frequency.





Highest frequency



Note: The peak shown in the plot above the limit is the carrier frequency.





Section 15.247 Subclause (d) / RSS-247 5.5. Band-edge emissions compliance (Transmitter)

SPECIFICATION

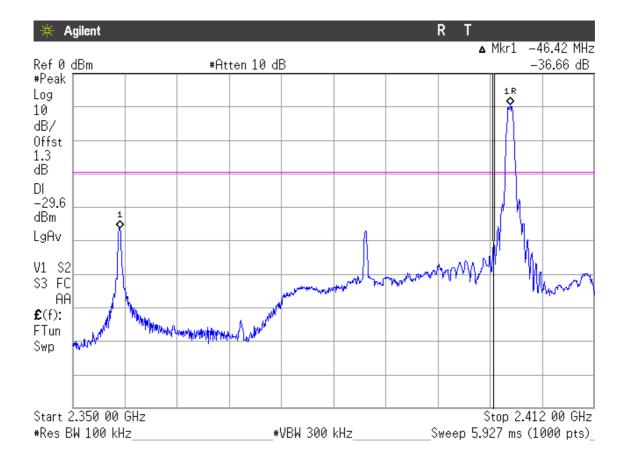
In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

RESULTS:

Note: Radiated measurements were used to show compliance with the limits in the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

1. LOW FREQUENCY SECTION. CONDUCTED.

See next plot.

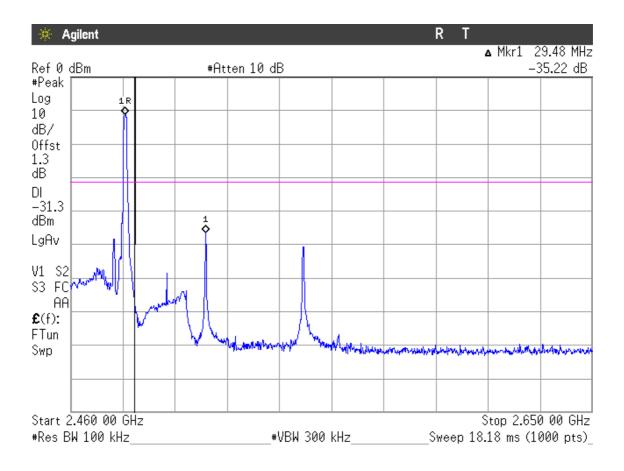






2. HIGH FREQUENCY SECTION. CONDUCTED.

See next plot.



Measurement uncertainty (dB) $< \pm 2.03$	Measurement uncertainty (dB)	< ±2.03
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Section 15.247 Subclause (e) / RSS-247 5.2. (2) Power spectral density

SPECIFICATION

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

The maximum power spectral density level in the fundamental emission was measured using the method PKPSD (Peak PSD) according to point 10.2. of Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v03r05 dated 04/08/2016.

Power spectral density (see next plots).

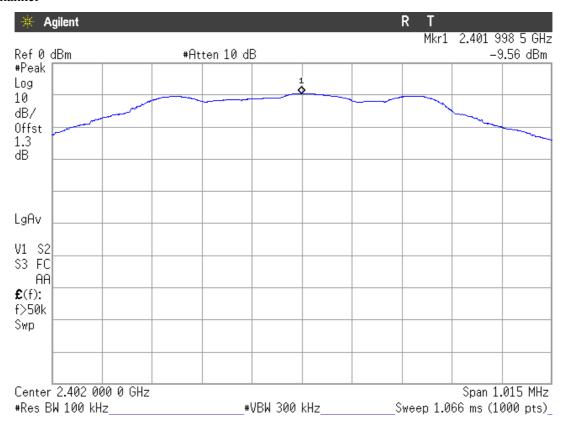
	Lowest frequency	Middle frequency	Highest frequency
	2402 MHz	2440 MHz	2480 MHz
Power spectral density (dBm)	-9.56	-10.35	-11.32
Measurement uncertainty (dB)	<±0.78		



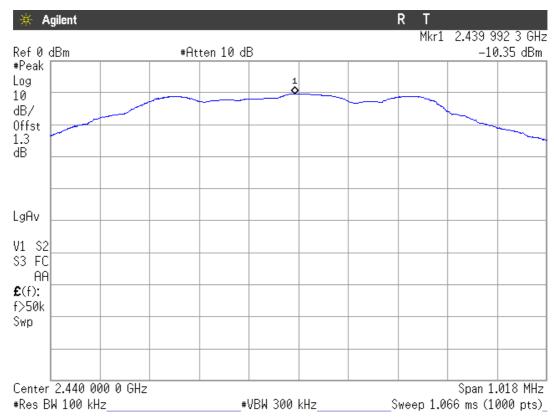


POWER SPECTRAL DENSITY

Lowest Channel



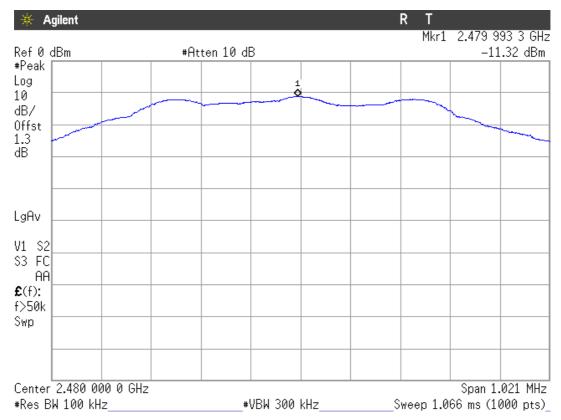
Middle Channel







Highest Channel







Section 15.247 Subclause (d) / RSS-247 5.5. Emission limitations radiated (Transmitter)

SPECIFICATION

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)) / RSS-Gen 8.9.:

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-1000 MHz and at distance of 1m for the frequency range 1 GHz-25 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.





Frequency range 30 MHz-1000 MHz.

The spurious signals detected do not depend on the operating channel.

All peaks are more than 20 dB below the limit.

Frequency range 1 GHz-25 GHz

The results in the next tables show the maximum measured levels in the 1-25 GHz range including the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz (see next plots).

Spurious signals with peak levels above the average limit (54 $dB\mu V/m$ at 3 m) are measured with average detector for checking compliance with the average limit.

1. CHANNEL: LOWEST (2402 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
2.30943	Н	Peak	48.58	± 4.87
2.31005	Н	Peak	49.97	± 4.87
2.36524	Н	Peak	49.85	± 4.87
4.80425	V	Peak	49.93	± 4.87
7.20625	V	Peak	45.71	± 4.87

2. CHANNEL: MIDDLE (2440 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
2.48689	V	Peak	50.18	± 4.87
4.88075	V	Peak	49.50	± 4.87
7.32025	V	Peak	45.91	± 4.87

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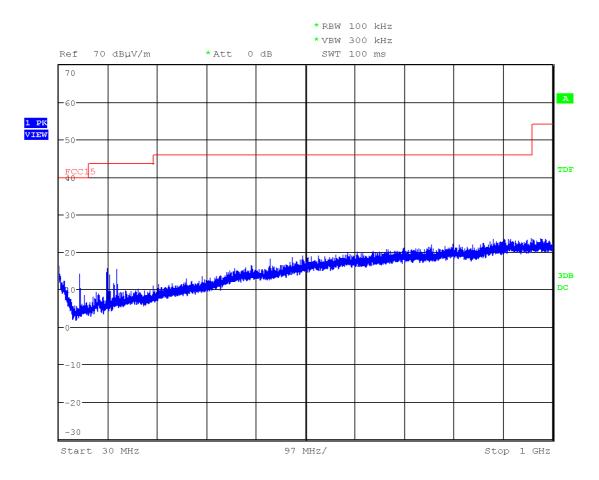
3. CHANNEL: HIGHEST (2480 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
2.42557	V	Peak	46.69	± 4.87
2.48618	V	Peak	50.95	± 4.87
4.96075	V	Peak	50.37	± 4.87
7.43975	Н	Peak	46.11	± 4.87





FREQUENCY RANGE 30 MHz-1000 MHz.

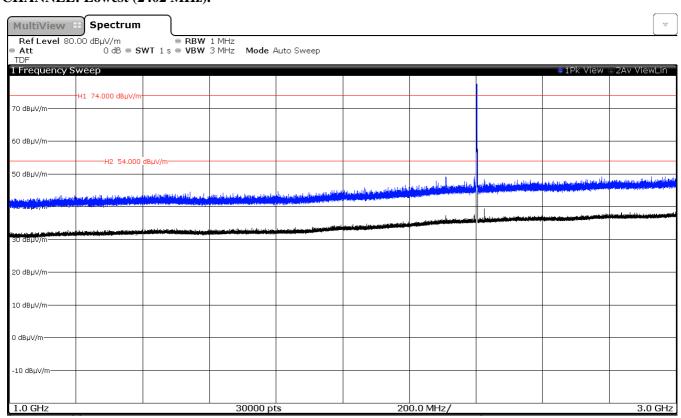


(This plot is valid for all three channels).



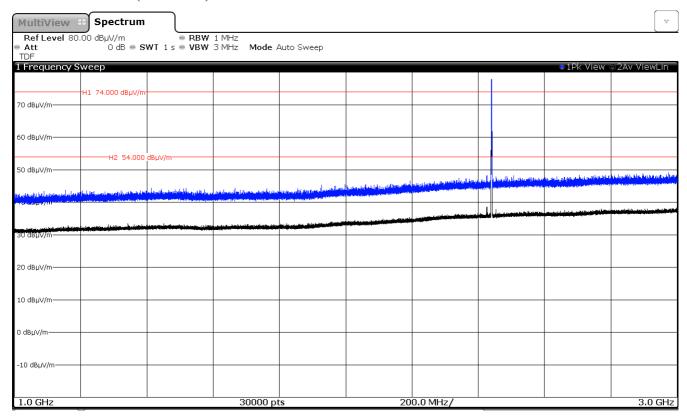


FREQUENCY RANGE 1 GHz to 3 GHz. CHANNEL: Lowest (2402 MHz).



Note: The peak shown in the plot above the limit is the carrier frequency.

CHANNEL: Middle (2440 MHz).



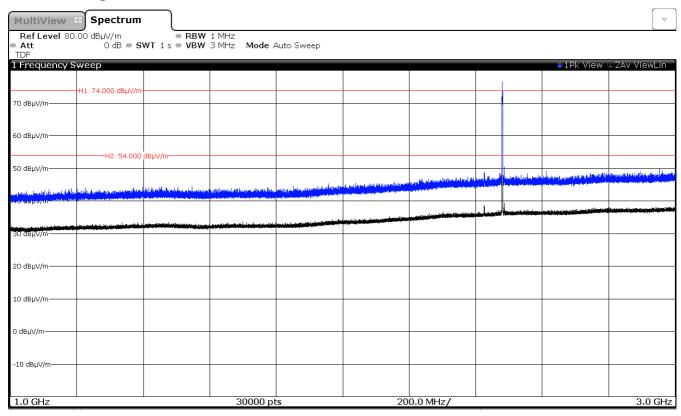
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Note: The peak shown in the plot above the limit is the carrier frequency.





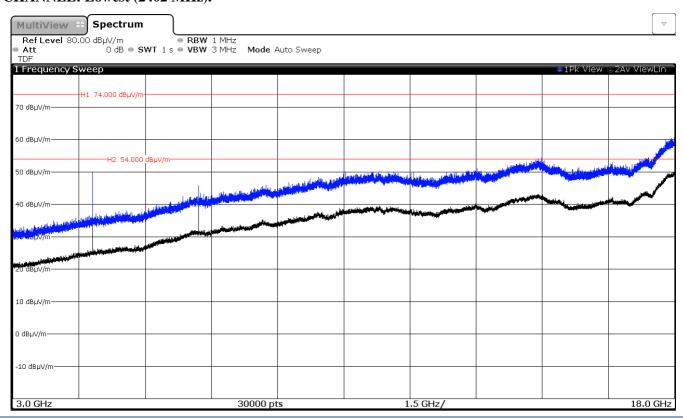
CHANNEL: Highest (2480 MHz).



Note: The peak shown in the plot above the limit is the carrier frequency.

FREQUENCY RANGE 3 GHz to 18 GHz.

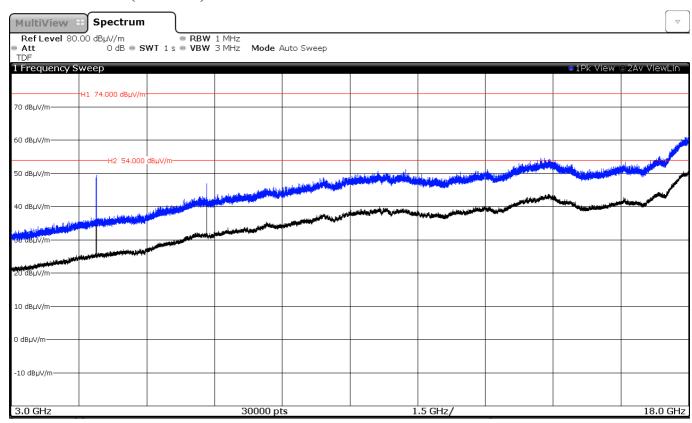
CHANNEL: Lowest (2402 MHz).



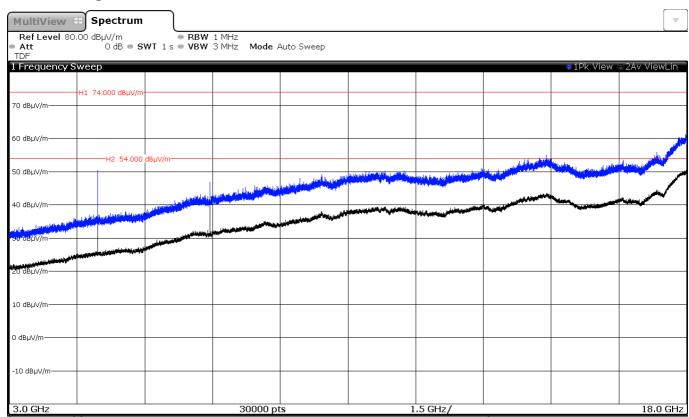




CHANNEL: Middle (2440 MHz).



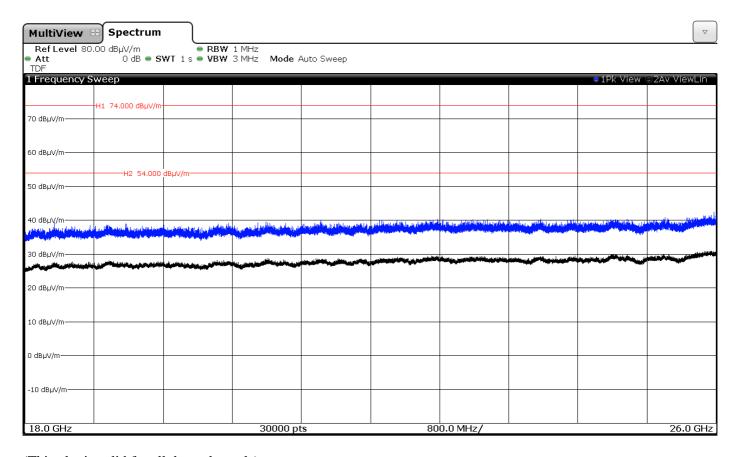
CHANNEL: Highest (2480 MHz).







FREQUENCY RANGE 18 GHz to 26 GHz.



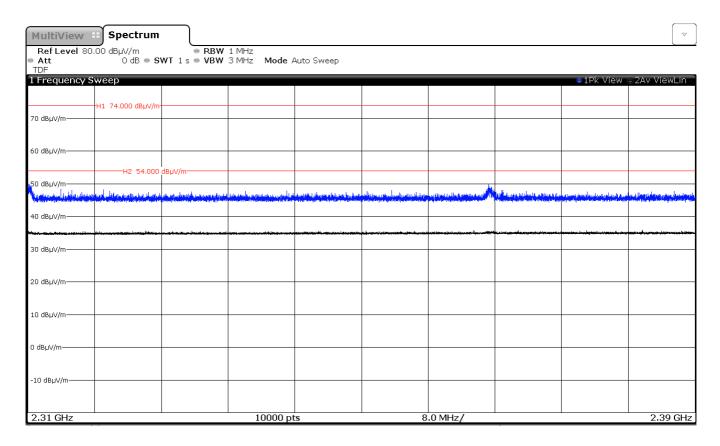
(This plot is valid for all three channels).



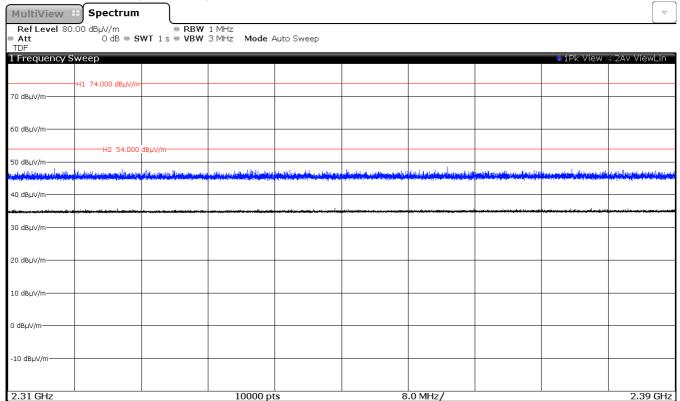


FREQUENCY RANGE 2.31 GHz to 2.39 GHz. (RESTRICTED BAND)

CHANNEL: Lowest (2402 MHz).



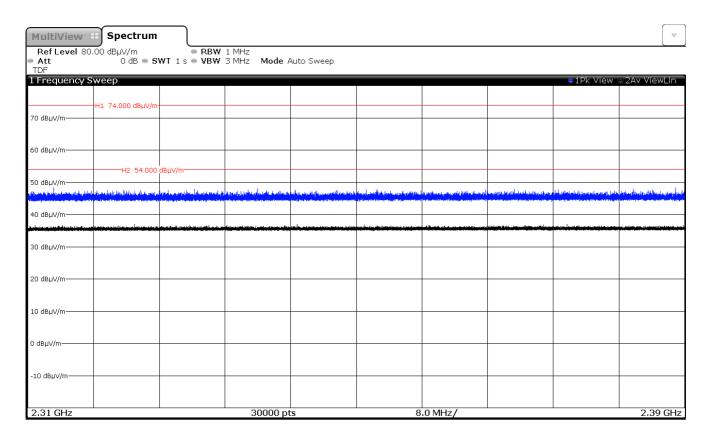
CHANNEL: Middle (2440 MHz).





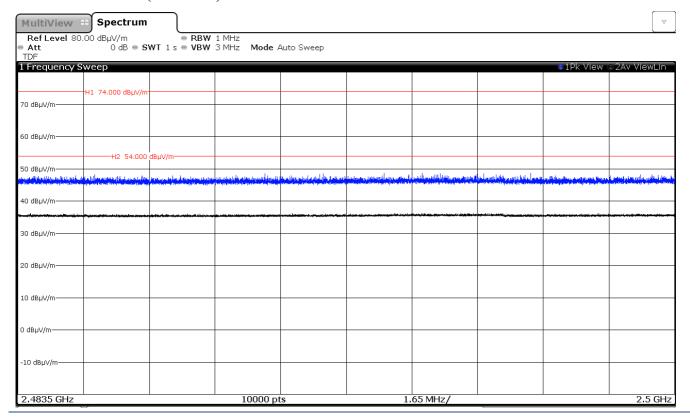


CHANNEL: Highest (2480 MHz).



FREQUENCY RANGE 2.4835 GHz to 2.5 GHz. (RESTRICTED BAND).

CHANNEL: Lowest (2402 MHz).



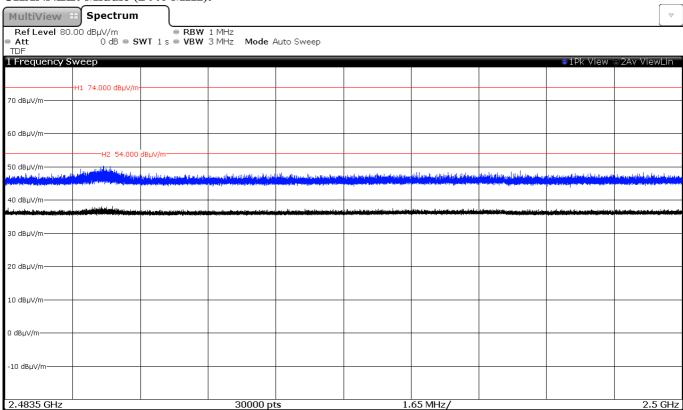
AT4 wireless, S.A.U.

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CHANNEL: Middle (2440 MHz).



CHANNEL: Highest (2480 MHz).

