



FCC LISTED, REGISTRATION NUMBER: 720267

ISED LISTED REGISTRATION NUMBER 4621A-2

Informe de ensayo nº: Test report No:

NIE: 53898RRF.015

Test report

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.

1	- Thromation for the Certification of Radio Apparatus.
Identificación del objeto ensayado: Identification of item tested	Internal node including all mechanical variants
Marca: Trademark	SALTO RFnet internal Node
Modelo y/o referencia tipo: Model and /or type reference	RF2MODULE
Other identification of the product:	FCC ID: UKCRF2MODULE IC: 10088A-RF2MODULE
Final HW version:	1.0
Final SW version:	0038, 0039, 0040, 0042, 0043, 0071, 0089, 0099
Características: Features	Tested on W0BW/ E0102
Solicitante: Applicant	SALTO Systems, S.L.
Applicant	Arkotz 9, Polígono Lanbarren 20180, Oiartzun, Gipuzkoa, SPAIN
Método de ensayo solicitado, norma: Test method requested, standard	USA FCC Part 15.247 10-1-16 Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz.
	USA FCC Part 15.209 10-1-16 Edition: Radiated emission limits; general requirements.
	CANADA RSS-247 Issue 2 (February 2017).
	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 v04 dated 04/05/2017.
	ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Resultado: Summary	IN COMPLIANCE

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Approbado por (nombre / cargo y firma): Approved by (name / position & signature)	A. Llamas RF Lab. Manager
Fecha de realización: Date of issue	2018-03-06
Formato de informe No: Report template No	FDT08_20



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Competences and guarantees

DEKRA Testing and Certification 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.

DEKRA Testing and Certification 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.

DEKRA Testing and Certification 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: ISED 4621A-2.

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

DEKRA Testing and Certification 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 DEKRA Testing and Certification at the time of performance of the test.

DEKRA Testing and Certification 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.

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General conditions

- $1. \ \ \, \text{This report is only referred to the item that has undergone the test.}$
- 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 DEKRA Testing and Certification.
- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Testing and Certification.internal document PODT000.

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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
53898C/012	Electronic lock	W0BW/ E0102		2017-08-18
53898C/036 Module IEEE802.15.4		RF2MODULE		2017-11-08

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 N°	Date of reception
53898C/043	Module IEEE802.15.4	RF2MODULE		2017-11-14
53898C/027	Control (radio)			2017-08-21
53898C/028	Batterybox Module 802.15.4			2017-08-21
53898C/030	Cable radio (black connectors)			2017-08-21
53898C/034	Module NFC Mifare (radiated)			2017-08-21

Sample S/02 has undergone following test(s).
 All conducted tests indicated in appendix A.

Test sample description

The test sample consists of a SALTO RFnet internal Node, based on IEEE802.15.4 standard technology.

Identification of the client

SALTO Systems, S.L. Arkotz 9, Polígono Lanbarren 20180, Oiartzun, Gipuzkoa, SPAIN

Testing period

The performed test started on 2017-11-10 and finished on 2017-12-22.

The tests have been performed at DEKRA Testing and Certification.

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Environmental conditions

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

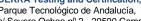
Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %
Shielding effectiveness	> 100 dB
Electric insulation	$> 10 \text{ k}\Omega$
Reference resistance to earth	<1Ω

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	<1Ω





Remarks and comments

1; The tests have been performed by the technical personnel: Pedro Parada and Gonzalo Rueda.

2: Used instrumentation:

Conducted Measurements

1.	Signal analyzer R&S FSV40	Last Cal. date 2017/07	Cal. due date 2019/07
Radiat	ed Measurements		
		Last Cal. date	Cal. due date
1.	Semianechoic Absorber Lined Chamber ETS FACT3 200STP	N.A.	N.A.
2.	BiconicalLog antenna ETS LINDGREN 3142E	2015/06	2018/06
3.	Multi Device Controller EMCO 2090	N.A.	N.A.
4.	Double-ridge Guide Horn antenna 1-18 GHz SCHWARZBECK BBHA 9120 D	2016/11	2019/11
5.	Broadband Horn antenna 18-40 GHz SCHWARZBECK BBHA 9170	2017/03	2020/03
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 30 MHz-6 GHz Bonn Elektronik BLNA 0360-01N	2017/07	2018/07
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

Testing verdicts

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

1.802.15.4

FCC PART 15 PARAGRAPH / RSS-247		VERDICT			
		NA	P	F	NM
Section 15.247 Subclause (a) (2) / RSS-247 5.2. (a)	6 dB Bandwidth		P		
Section 15.247 Subclause (b) / RSS-247 5.4. (d)	Maximum output power and antenna gain		P		
Section 15.247 Subclause (d) / RSS-247 5.5	Emission limitations conducted (Transmitter)		P		
Section 15.247 Subclause (d) / RSS-247 5.5	Band-edge emissions compliance (Transmitter)		P		
Section 15.247 Subclause (e) / RSS-247 5.2. (b)	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 (802.15.4 radio)

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TEST CONDITIONS

Power supply (V):

 $V_{nominal} = 4.5 \text{ Vdc}$

Type of power supply = DC voltage from battery.

Type of antenna = Internal antenna

Declared Gain for antenna (maximum) = +1.7 dBi

TEST FREQUENCIES:

Lowest channel: 2405 MHz Middle channel: 2445 MHz Highest channel: 2480 MHz

CONDUCTED MEASUREMENTS

The equipment under test was set up in a shielded room and it is directly connected to the spectrum analyzer.



The DC supply voltage is applied using internal batteries fully charged.

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).

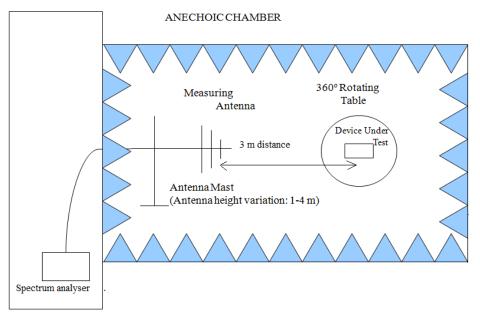
For radiated emissions in the range 1 GHz-25 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform 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.

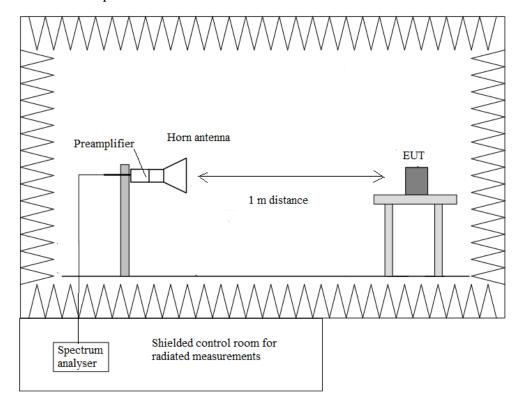


Radiated measurements setup f < 1 GHz



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
	2405 MHz	2445 MHz	2480 MHz
99% bandwidth (MHz)	2.863	2.856	2.975
-26 dBc bandwidth (MHz)	5.159	4.998	5.124
Measurement uncertainty (kHz)		<± 2.80	

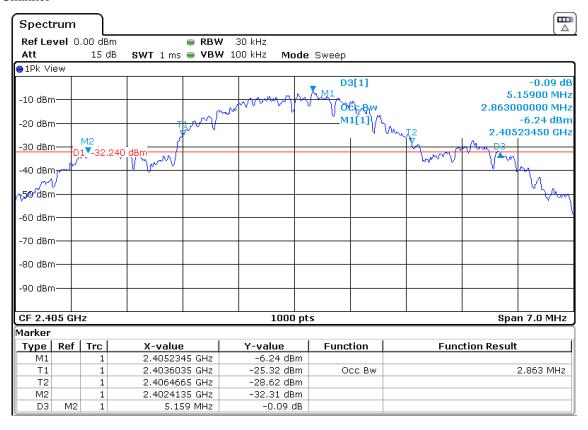
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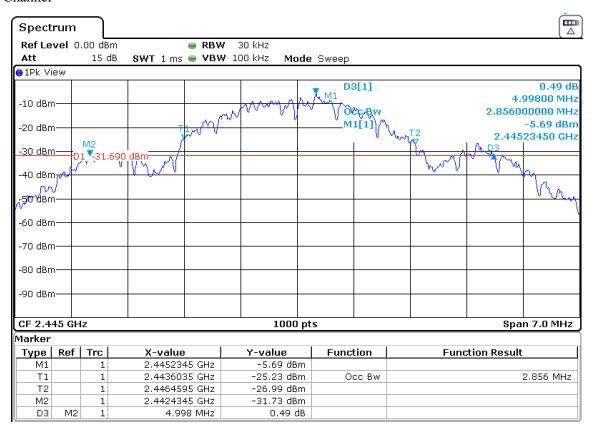


Occupied bandwidth:

Lowest Channel



Middle Channel

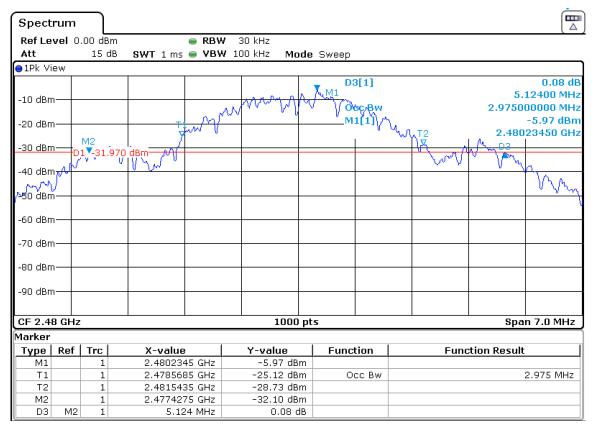


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Highest channel





Section 15.247 Subclause (a) (2) / RSS-247 5.2. (a). 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
	2405 MHz	2445 MHz	2480 MHz
6 dB Spectrum bandwidth (kHz)	1620	1565	1535
Measurement uncertainty (kHz)		<±2.15	

Verdict: PASS

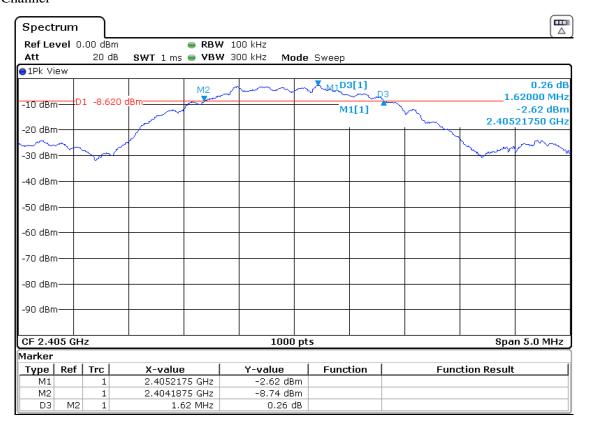
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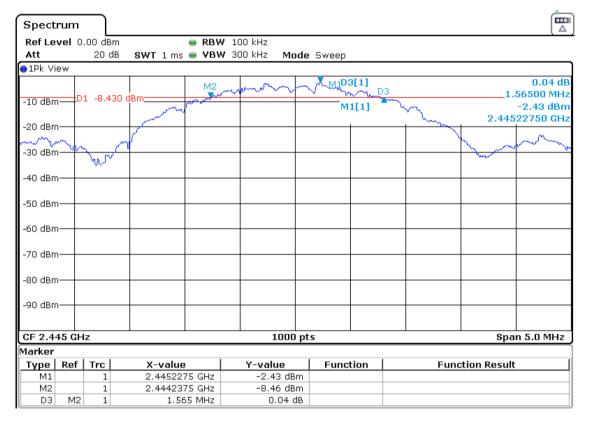


6 dB BANDWIDTH.

Lowest Channel



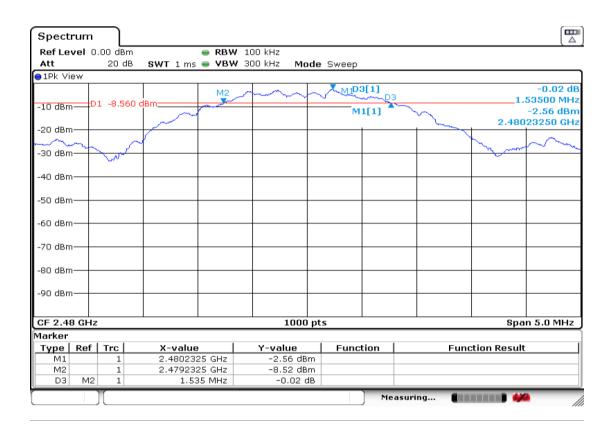
Middle Channel



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Highest Channel





Section 15.247 Subclause (b) / RSS-247 5.4. (d). 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 v04 dated 04/05/2017.

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: +1.7 dBi.

	Lowest frequency	Middle frequency	Highest frequency
	2405 MHz	2445 MHz	2480 MHz
Maximum conducted power (dBm)	2.04	1.86	1.62
Maximum EIRP power (dBm)	3.74	3.56	3.32
Measurement uncertainty (dB)		<±1.20	

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.

Verdict: PASS

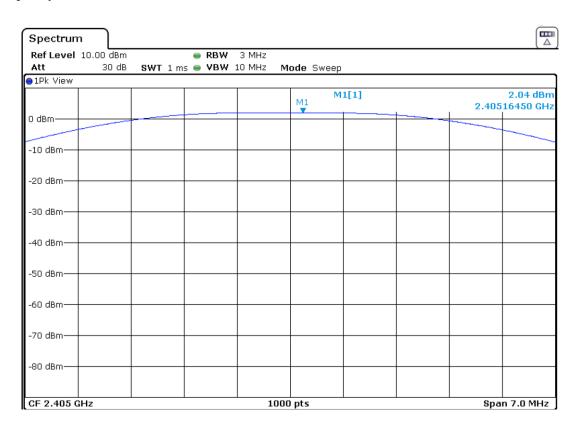
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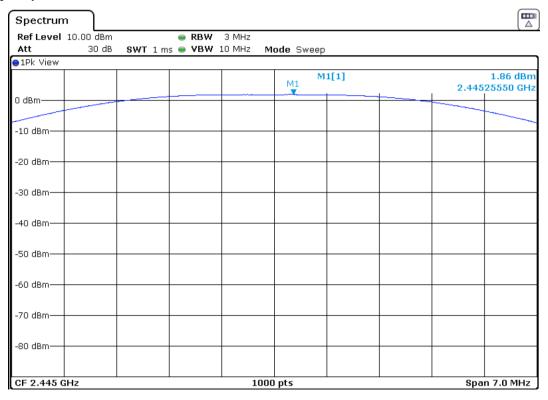


CONDUCTED PEAK POWER.

Lowest frequency

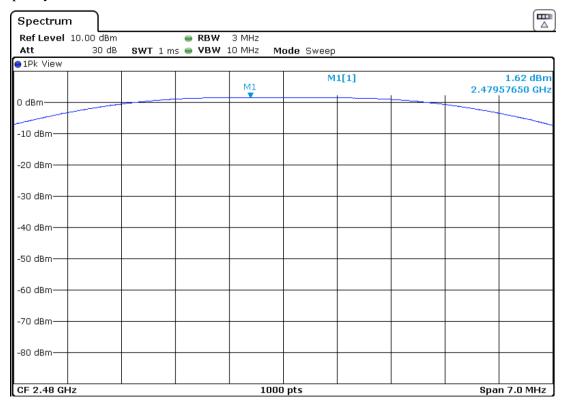


Middle frequency





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	
	2405 MHz	2445 MHz	2480 MHz	
Reference Level Measurement (dBm)	-2.56	-2.36	-2.52	
Measurement uncertainty (dB)		<±1.20		

Lowest frequency 2405 MHz:

All peaks are more than 20 dB below the limit.

Middle frequency 2445 MHz:

All peaks are more than 20 dB below the limit.

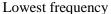
Highest frequency 2480 MHz:

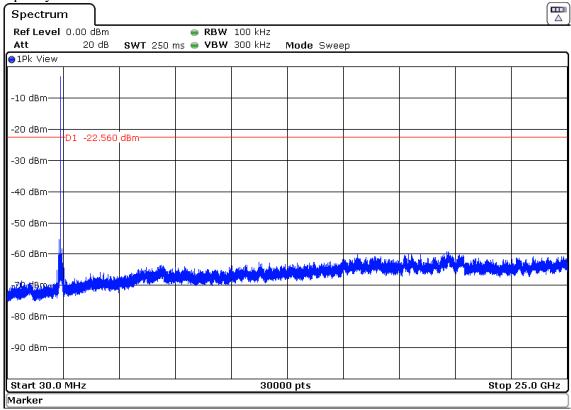
All peaks are more than 20 dB below the limit.

Measurement uncertainty (dB): < 1.20

Verdict: PASS

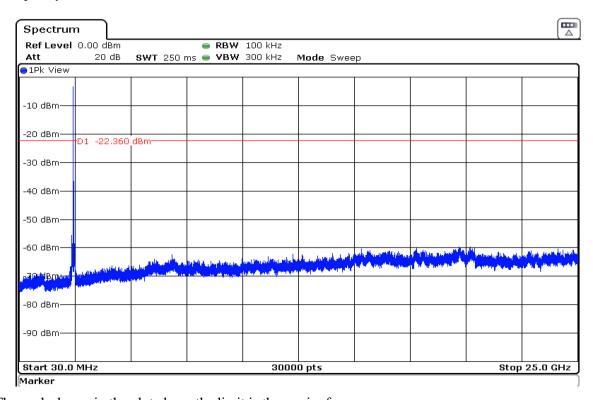






Note: The peak shown in the plot above the limit is the carrier frequency.

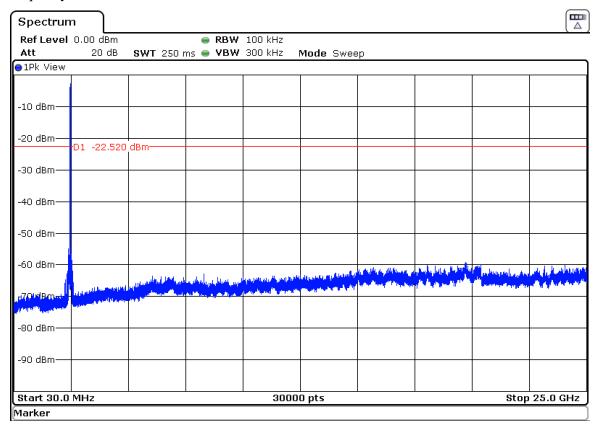
Middle frequency



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)

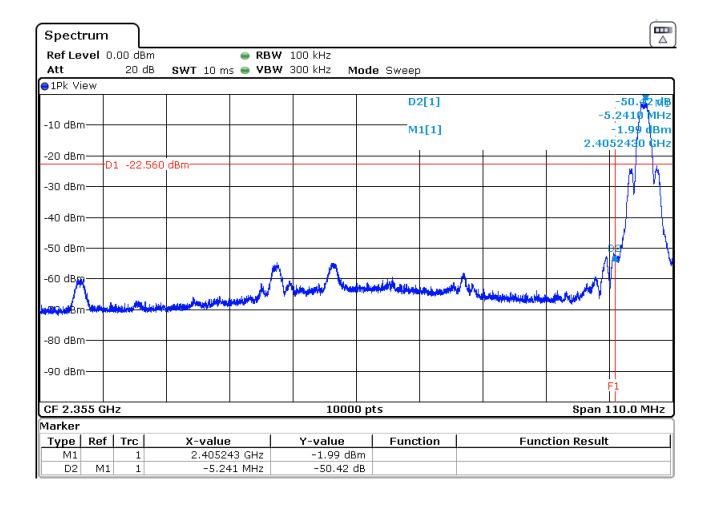
SPECIFICATION

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:

1. LOW FREQUENCY SECTION. CONDUCTED.

See next plot.

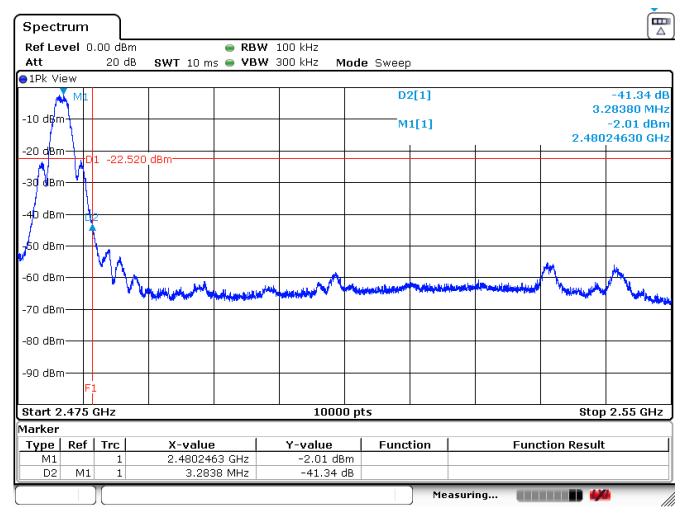


Verdict: PASS



2. HIGH FREQUENCY SECTION. CONDUCTED.

See next plot.



Measurement uncertainty (dB)	< ±1.20

Verdict: PASS

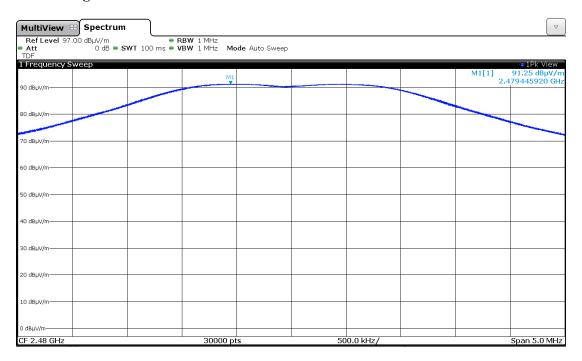


Band-edge compliance of radiated emissions.

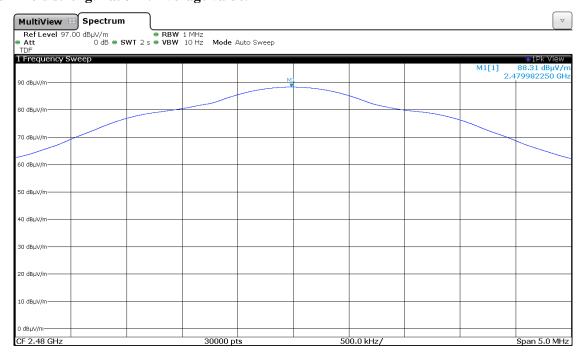
Maximum peak and average field strength of fundamental emission at 3 m distance

HIGHEST CHANNEL (2480 MHz):

Maximum field strength at 3 m. Peak value.

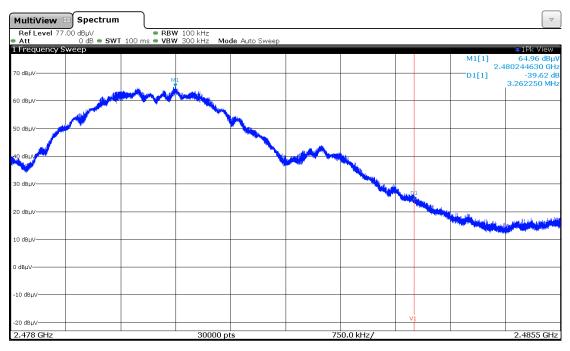


Maximum field strength at 3 m. Average value.





BAND-EDGE COMPLIANCE. RADIATED. Marker-Delta Method.



Note: No correction is applied for this relative measurement.

Band edge compliance of radiated emissions

Fundamental max. average value 3 m	Delta value	Calculated value 3 m	Limit
88.31 dBμV/m	39.62 dB	48.69 dBμV/m	54 dBμV/m

Fu	undamental max. Peak value 3 m	Delta value	Calculated value 3 m	Limit
	$91.25~dB\mu V/m$	39.62 dB	$51.63~dB\mu V/m$	74 dBμV/m

Verdict: PASS



Section 15.247 Subclause (e) / RSS-247 5.2. (b) 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 v04 dated 04/05/2017.

Power spectral density (see next plots).

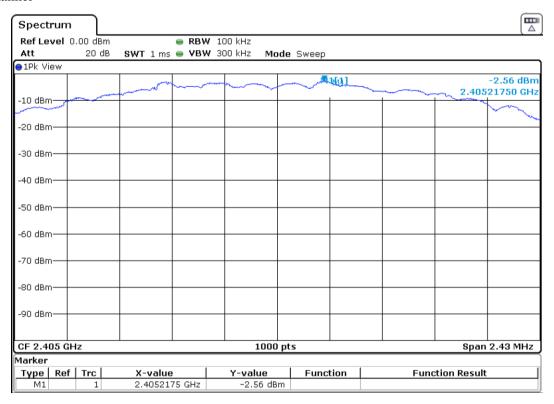
	Lowest frequency	Middle frequency	Highest frequency
	2405 MHz	2445 MHz	2480 MHz
Power spectral density (dBm)	-2.56	-2.36	-2.52
Measurement uncertainty (dB)		<±1.20	

Verdict: PASS

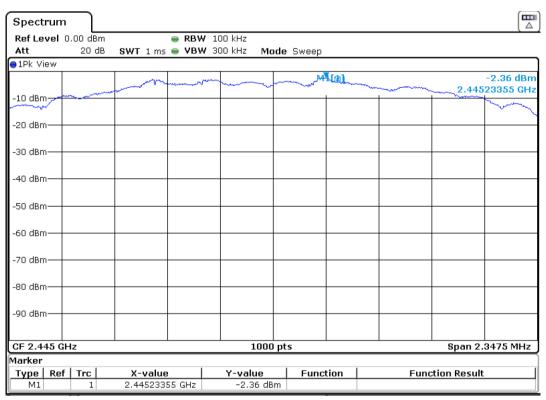


POWER SPECTRAL DENSITY

Lowest Channel



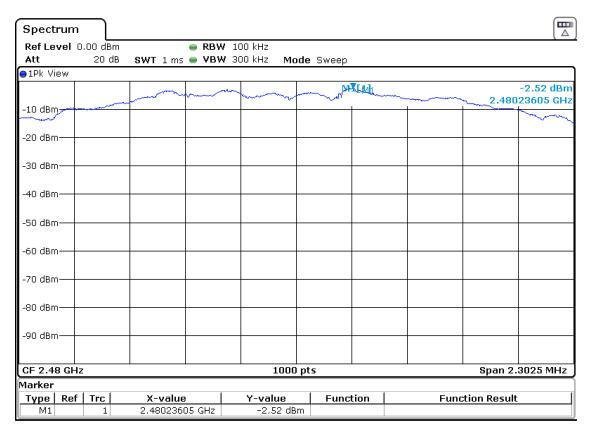
Middle Channel



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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):

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.

RSS-247. Attenuation below the general field strength limits specified in RSS-Gen is not required.

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.

No radiated spurious signals were detected at less than 20 dB respect to the limit for both the lowest and highest operating channels.

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). For band-edge compliance of radiated emissions inside the restricted band 2.4835-2.5 GHz see section Section "15.247 Subclause (d) / RSS-247 5.5. Band-edge emissions compliance (Transmitter)" above.

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

1. CHANNEL: LOWEST (2405 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
2.3411	Н	Peak	45.75	± 4.87
2.3505	Н	Peak	49.00	± 4.87
4.8103	Н	Peak	45.28	± 4.87

2. CHANNEL: MIDDLE (2445 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
2.3814	Н	Peak	48.56	± 4.87
4.8898	Н	Peak	44.84	± 4.87

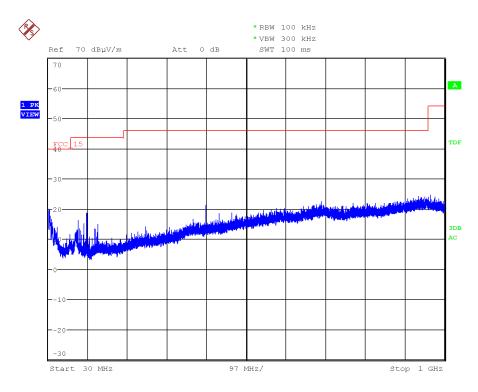
3. CHANNEL: HIGHEST (2480 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
2.48551	Н	Peak	50.16	± 4.87
4.9603	Н	Peak	41.74	± 4.87

Verdict: PASS



FREQUENCY RANGE 30 MHz-1000 MHz.

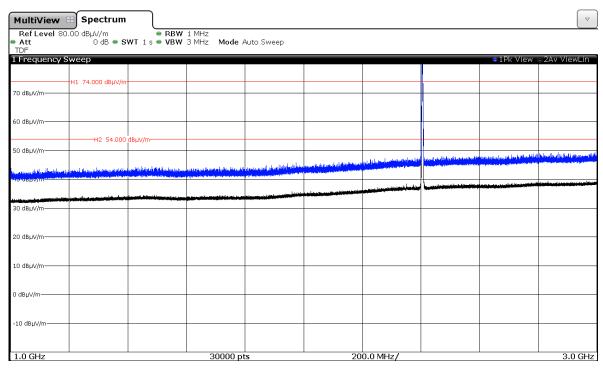


(This plot is valid for all three channels).



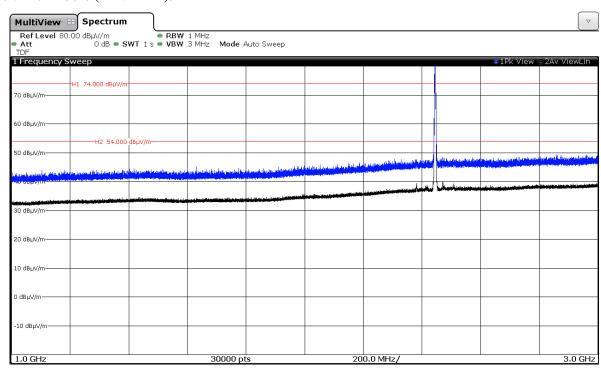
FREQUENCY RANGE 1 GHz to 3 GHz.

CHANNEL: Lowest (2405 MHz).



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

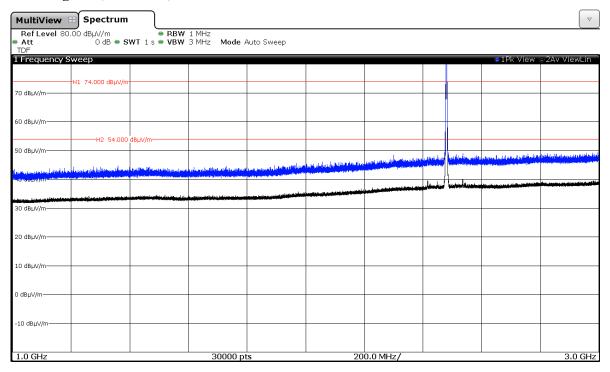
CHANNEL: Middle (2445 MHz).



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



CHANNEL: Highest (2480 MHz).

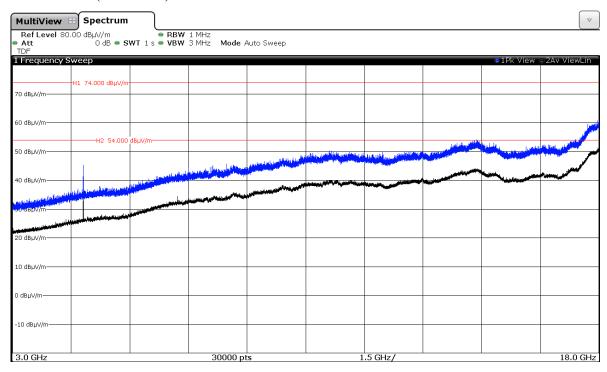


Note: The peak shown in the plot above the limit is the carrier frequency.

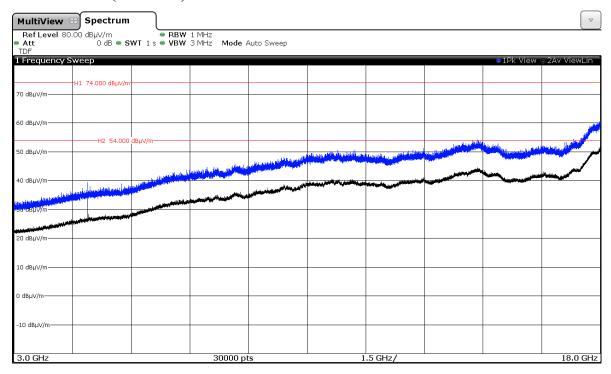


FREQUENCY RANGE 3 GHz to 18 GHz.

CHANNEL: Lowest (2405 MHz).

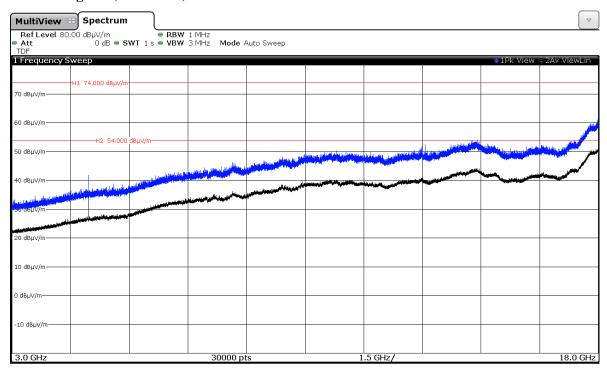


CHANNEL: Middle (2445 MHz).



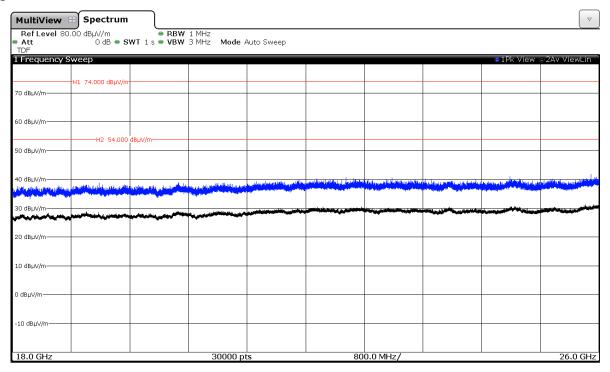


CHANNEL: Highest (2480 MHz).





FREQUENCY RANGE 18 GHz to 26 GHz.

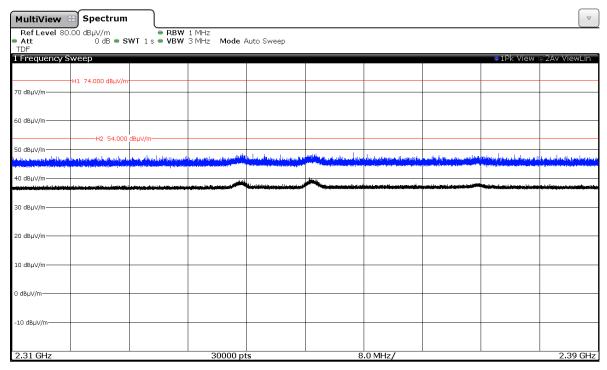


(This plot is valid for all three channels).

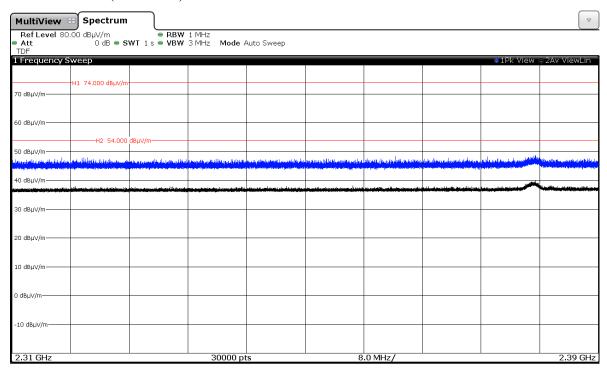


FREQUENCY RANGE 2.31 GHz to 2.39 GHz. (RESTRICTED BAND)

CHANNEL: Lowest (2405 MHz).

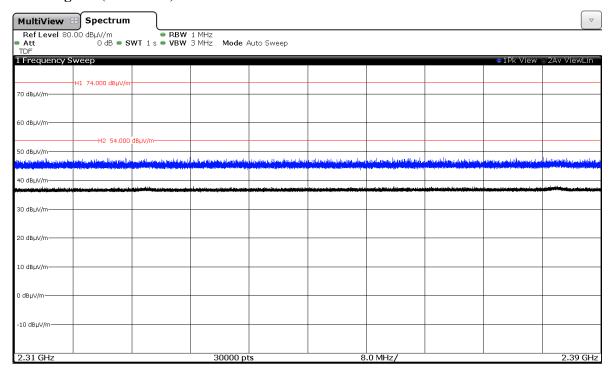


CHANNEL: Middle (2445 MHz).





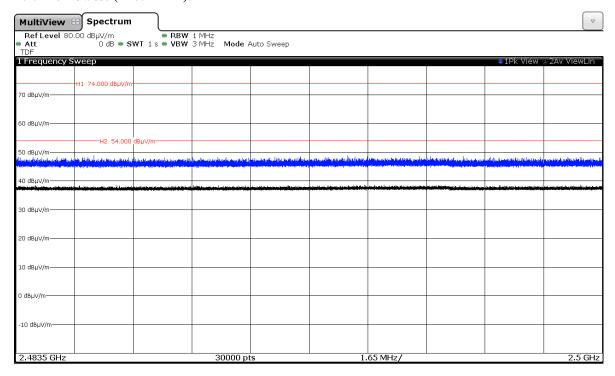
CHANNEL: Highest (2480 MHz).



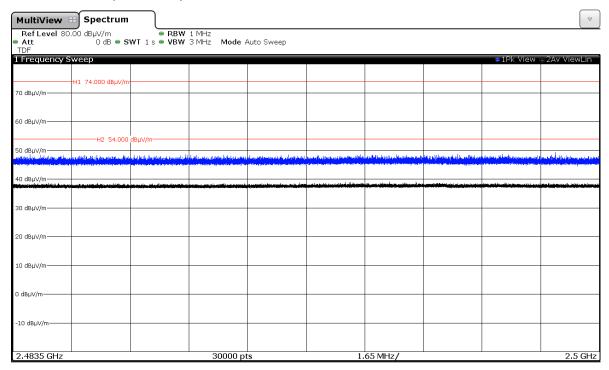


FREQUENCY RANGE 2.4835 GHz to 2.5 GHz. (RESTRICTED BAND).

CHANNEL: Lowest (2405 MHz).

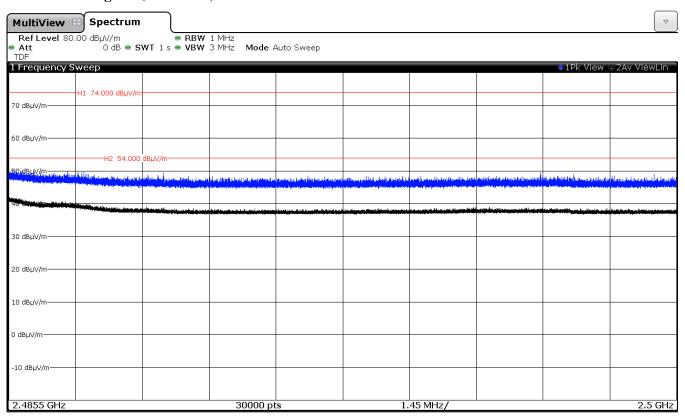


CHANNEL: Middle (2445 MHz).





CHANNEL: Highest (2480 MHz).



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