

FCC LISTED, REGISTRATION
 NUMBER: 720267

Informe de ensayo nº:
 Test report No:

NIE: 48166RRF.002

Test report
USA FCC Part 15.247, 15.209
 Radio Frequency Devices. Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and
 5725 - 5850 MHz.
 Radiated emission limits; general requirements.

| | |
|---|---|
| Identificación del objeto ensayado.....: Identification of item tested | 3.95 Watt AFA Receiver |
| Marca Trade | TesLink |
| Modelo y/o referencia tipo Model and /or type reference | WPR700U1 WPR700L1 |
| Other identification of the product | FCC ID: 2AEFM-WPR700 |
| Final HW version | 01.000.00 |
| Final SW version | 01.000.00 |
| Características Features | BSSv1.3. |
| Fabricante Manufacturer | EMS TECH 10F-1, No. 241, Section 3 Wunsin Rd, Situn Dist., 40753 Taichung City, Taiwan |
| 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. Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v03r04 dated 01/07/2016. 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 | 2016-03-18 |
| Formato de informe No.....: Report template No | FDT08_17 |

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Competences and guarantees

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 conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Registration Number: 720267.

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 N° | Description | Model | Serial N° | Date of reception |
|------------|-----------------------------------|----------|-----------|-------------------|
| 41866/007 | AFA Receiver with interface board | WPR700U1 | --- | 2016-01-21 |

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 N° | Description | Model | Serial N° | Date of reception |
|------------|---|----------|-----------|-------------------|
| 41866/011 | AFA Receiver with interface board and antenna connector | WPR700U1 | --- | 2016-02-16 |

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

Test sample description

The test sample consists of a 3.95 Watt AFA Receiver. When used in conjunction with an AFA certified power transmitting unit will charge electronics devices.

Identification of the client

GILL ELECTRONICS
 725 Bond NW Grand Rapids MI 49503 USA

Testing period

The performed test started on 2016-01-22 and finished on 2016-02-23.
 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 kΩ |
| Reference resistance to earth | < 1 Ω |

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 kΩ |
| Reference resistance to earth | < 1 Ω |
| 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 kΩ |
| Reference resistance to earth | < 1 Ω |

Remarks and comments

1: Used instrumentation:

Conducted Measurements

| | Last Cal. date | Cal. due date |
|-------------------------------------|----------------|---------------|
| 1. Spectrum analyser Agilent E4440A | 2015/10 | 2017/10 |
| 2. DC power supply R&S NGPE 40/40 | 2014/11 | 2017/11 |

Radiated 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 | 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 | 2014/02 | 2016/02 |
| 7. Spectrum analyser Rohde & Schwarz FSW50 | 2015/12 | 2017/12 |
| 8. RF pre-amplifier 10 MHz-6 GHz SCHWARZBECK BBV9743 | 2015/03 | 2016/03 |
| 9. RF pre-amplifier 1-18 GHz Bonn Elektronik BLMA 0118-3A | 2015/05 | 2016/05 |
| 10. RF pre-amplifier 18-40 GHz BONN ELEKTRONIK BLMA 1840-1M | 2015/12 | 2017/12 |

2: Client's statement.



Gill Electronics
5271 Planified Ave, NE
Grand Rapids, MI 49525
United States

Date: March 15th, 2016

Declaration Letter

We,

GILL ELECTRONICS

declare on our sole responsibility that the product

Brand Name: TesLink
Model Name: WPR700U1

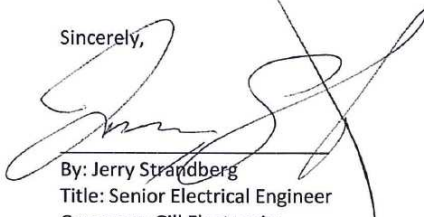
is in all RF related HW and SW identical to the product

Brand Name: TesLink
Model Name: WPR700L1

We declare that the products indicated here are identical regarding electrical behavior. The only difference is that Model Name WPR700U1 has an USB connector and Model Name WPR700L1 has an Apple Lightning connector. Both connectors have DC-Power Transfer capability only; they do not have Data Transfer capability.

And therefore all RF Test Results of WPR700U1 are applicable for WPR700L1.

Sincerely,



By: Jerry Strandberg
Title: Senior Electrical Engineer
Company: Gill Electronics
Telephone: +1 616 559 2722
E-mail: jstrandberg@gill-electronics.com

Testing verdicts

| | |
|-----------------------------|-----|
| Not applicable | N/A |
| Pass | P |
| Fail | F |
| Not measured | N/M |

| FCC PART 15 PARAGRAPH | VERDICT | | | |
|---|---------|---|---|----|
| | NA | P | F | NM |
| Section 15.247 Subclause (a) (2) 6 dB Bandwidth | | P | | |
| Section 15.247 Subclause (b) Maximum output power and antenna gain | | P | | |
| Section 15.247 Subclause (d) Emission limitations conducted (Transmitter) | | P | | |
| Section 15.247 Subclause (d) Band-edge emissions compliance (Transmitter) | | P | | |
| Section 15.247 Subclause (e) Power spectral density | | P | | |
| Section 15.247 Subclause (d) Emission limitations radiated (Transmitter) | | P | | |

Appendix A – Test result

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|--|----|
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TEST CONDITIONS

Power supply (V):

$V_{\text{nominal}} = 1.8 \text{ Vdc}$

Type of power supply = DC voltage from external supply.

Type of antenna = Integral antenna.

Declared Gain for antenna (maximum) = 3.0 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 directly connected to the spectrum analyzer.



RADIATED MEASUREMENTS

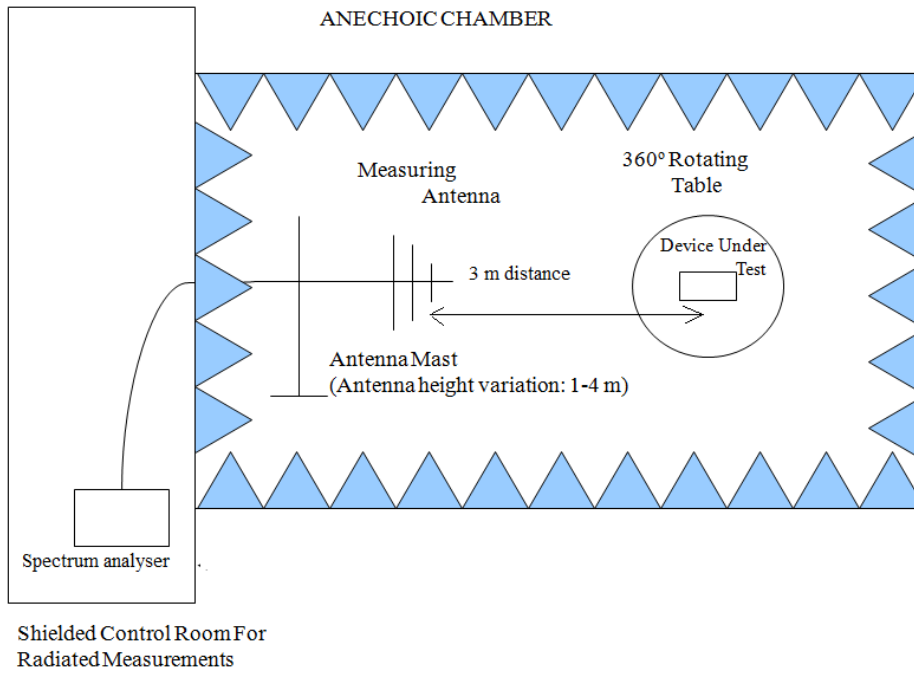
All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m for the frequency range 30 MHz-1000 MHz (30 MHz-1000 MHz Bilog antenna) and at a distance of 1m for the frequency range 1 GHz-25 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40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

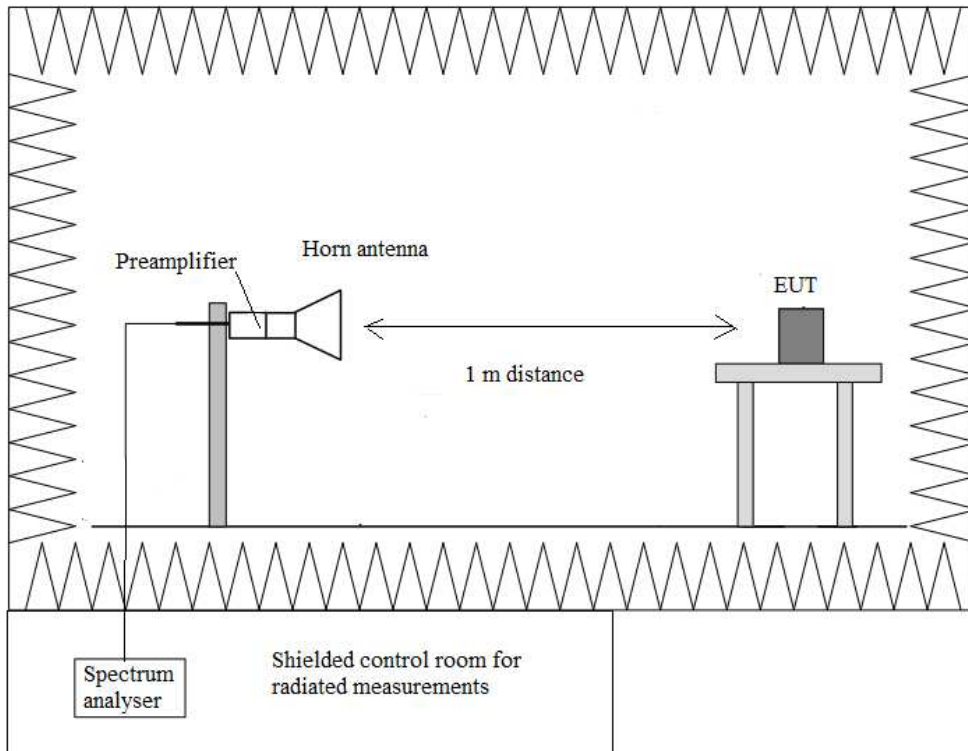
The equipment under test was set up on a non-conductive (wooden) platform 1.5 meter above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

Radiated measurements setup $f < 1$ GHz



Radiated measurements setup $f > 1$ GHz



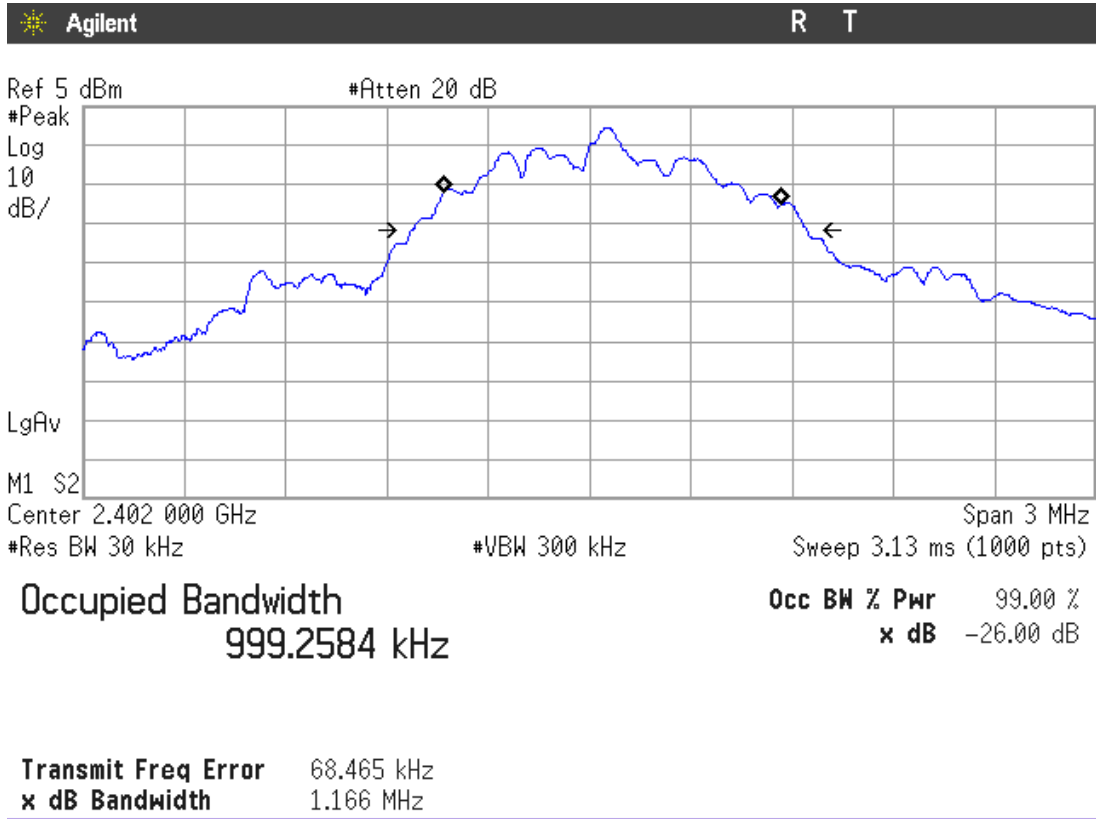
Occupied Bandwidth

RESULTS

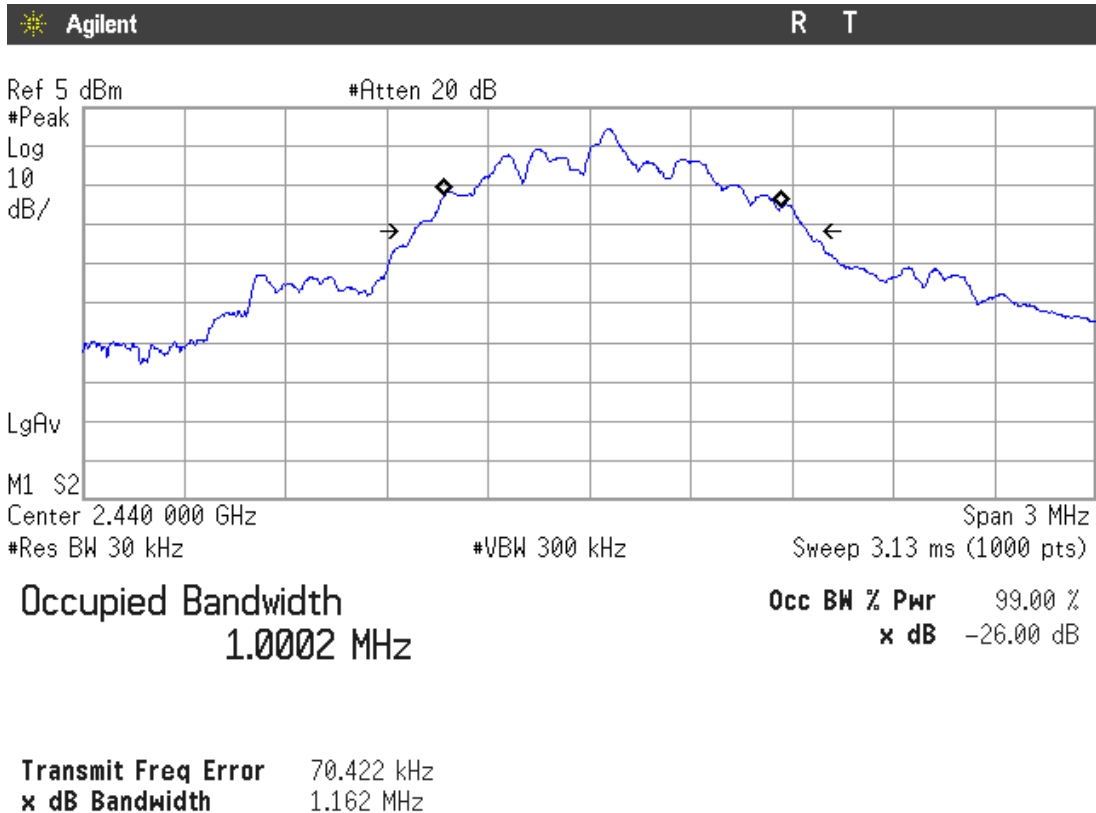
(see next plots).

| | Lowest frequency 2402 MHz | Middle frequency 2440 MHz | Highest frequency 2480 MHz |
|-------------------------------|------------------------------|------------------------------|-------------------------------|
| 99% bandwidth (MHz) | 0.999 | 1.000 | 1.003 |
| -26 dBc bandwidth (MHz) | 1.166 | 1.162 | 1.170 |
| Measurement uncertainty (kHz) | <± 5.0 | | |

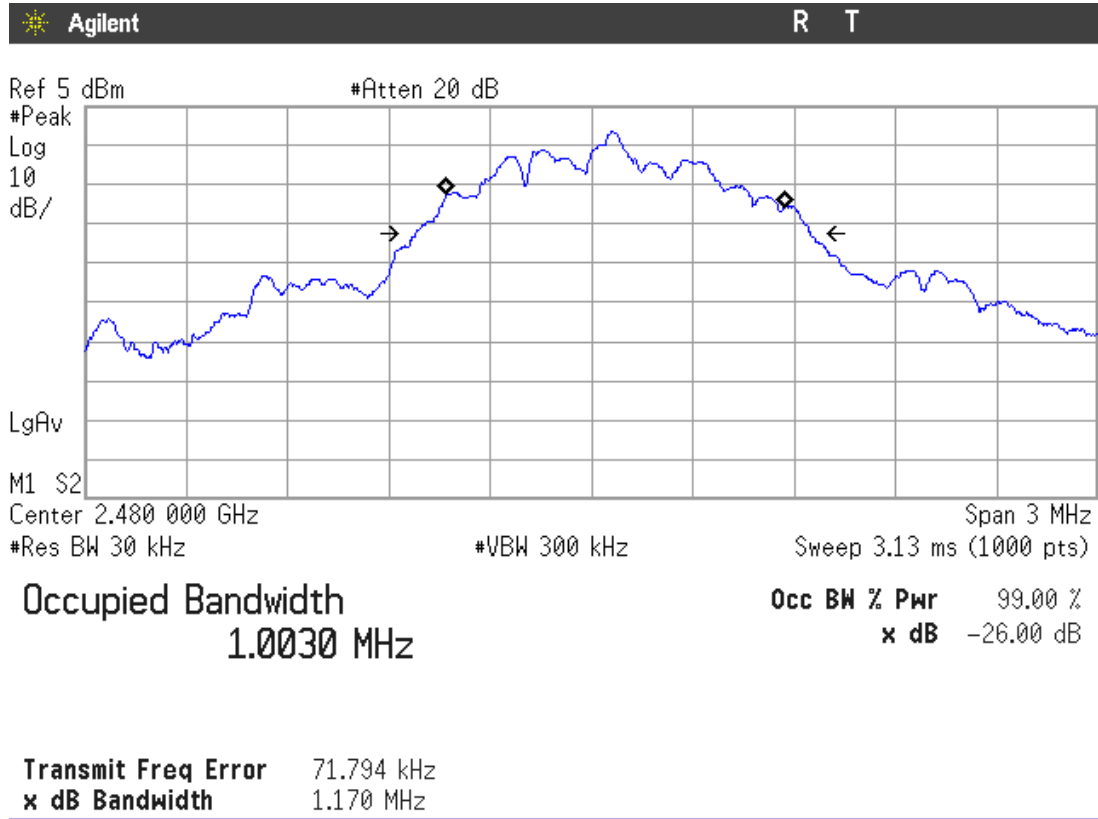
Lowest Channel



Middle Channel



Highest channel



Section 15.247 Subclause (a) (2). 6 dB Bandwidth

SPECIFICATION

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

RESULTS

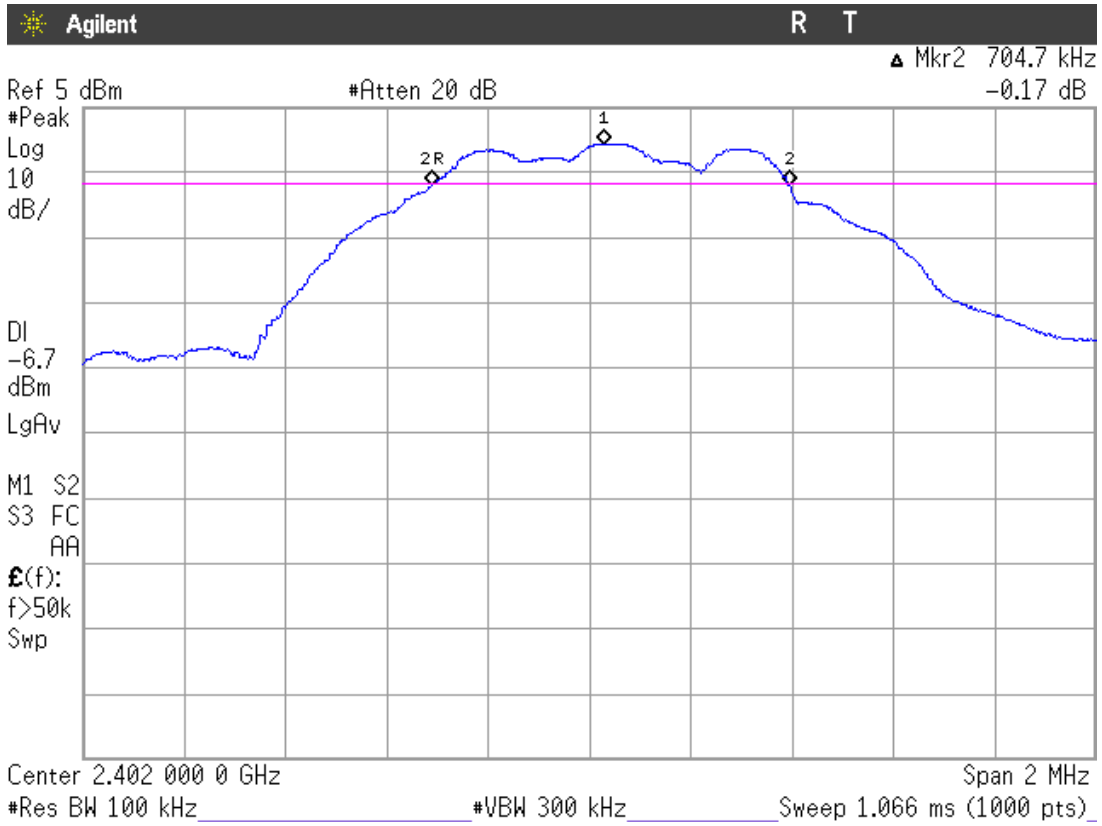
6 dB Bandwidth (see next plots).

| | Lowest frequency 2402 MHz | Middle frequency 2440 MHz | Highest frequency 2480 MHz |
|-------------------------------|------------------------------|------------------------------|-------------------------------|
| 6 dB Spectrum bandwidth (kHz) | 704.7 | 688.7 | 690.7 |
| Measurement uncertainty (kHz) | <±11.0 | | |

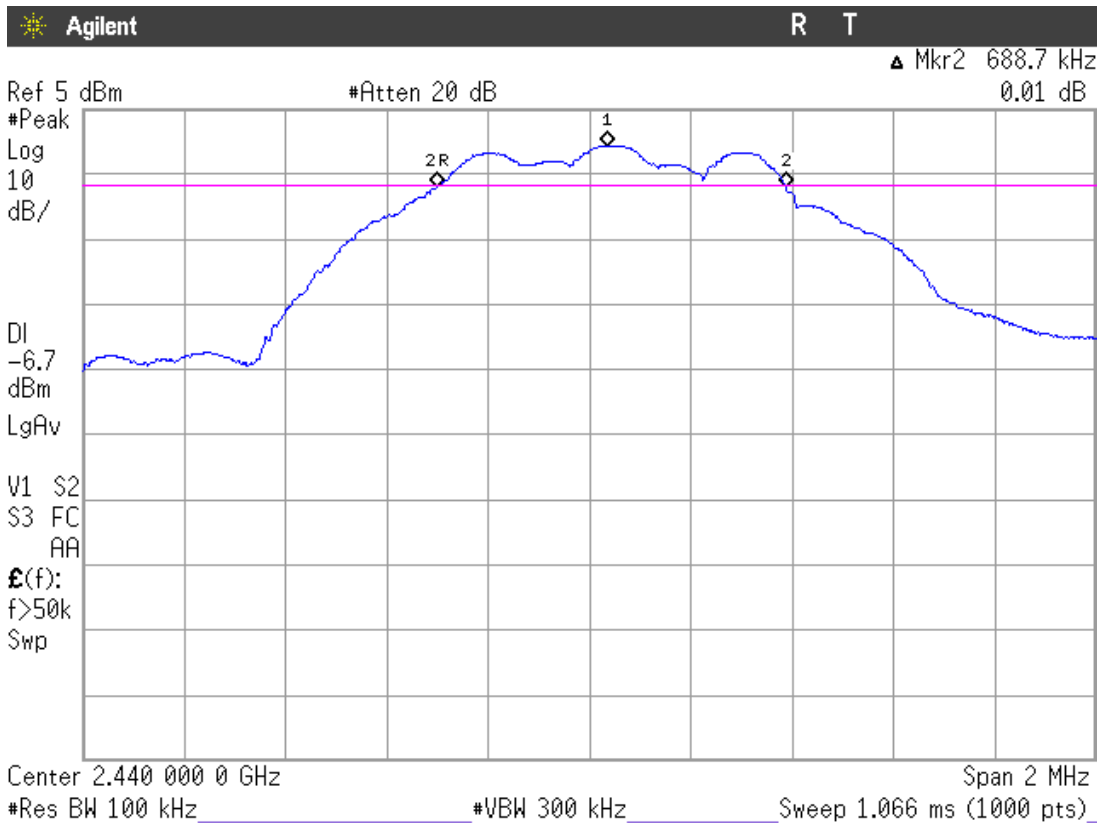
Verdict: PASS

6 dB BANDWIDTH.

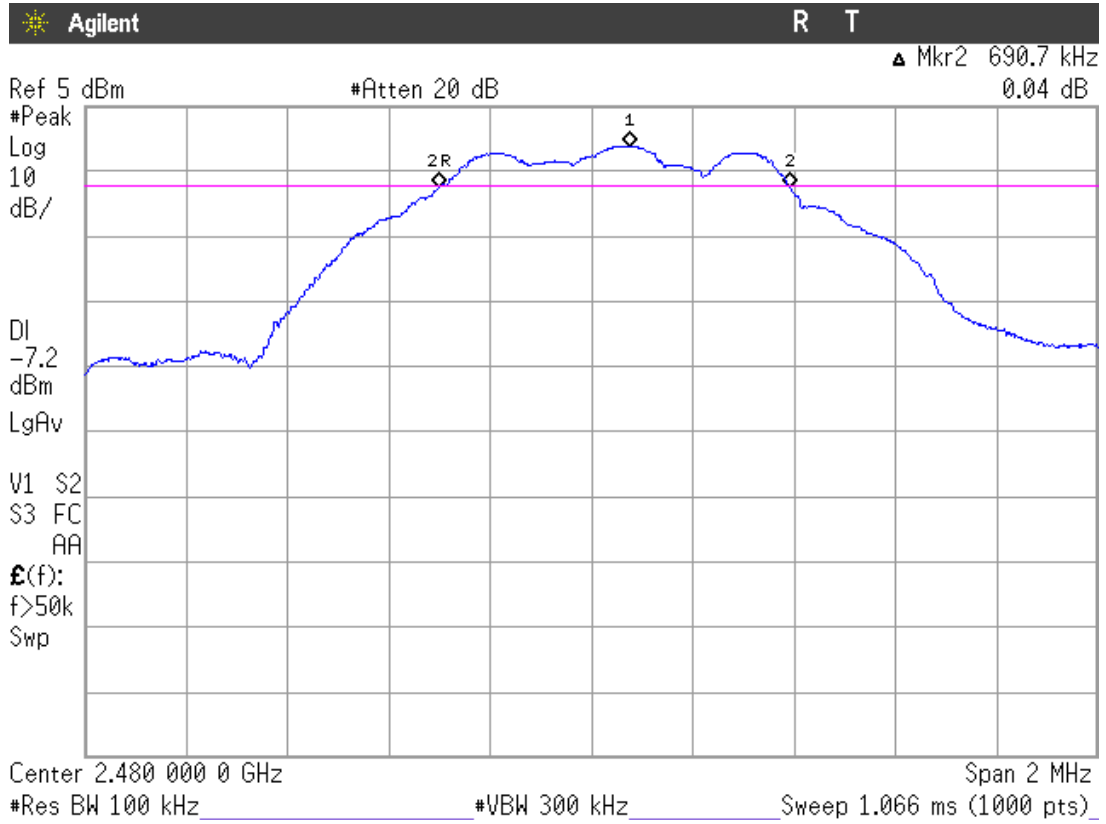
Lowest Channel



Middle Channel



Highest Channel



Section 15.247 Subclause (b). 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 v03r04 dated 07/01/2016.

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: 3.0 dBi.

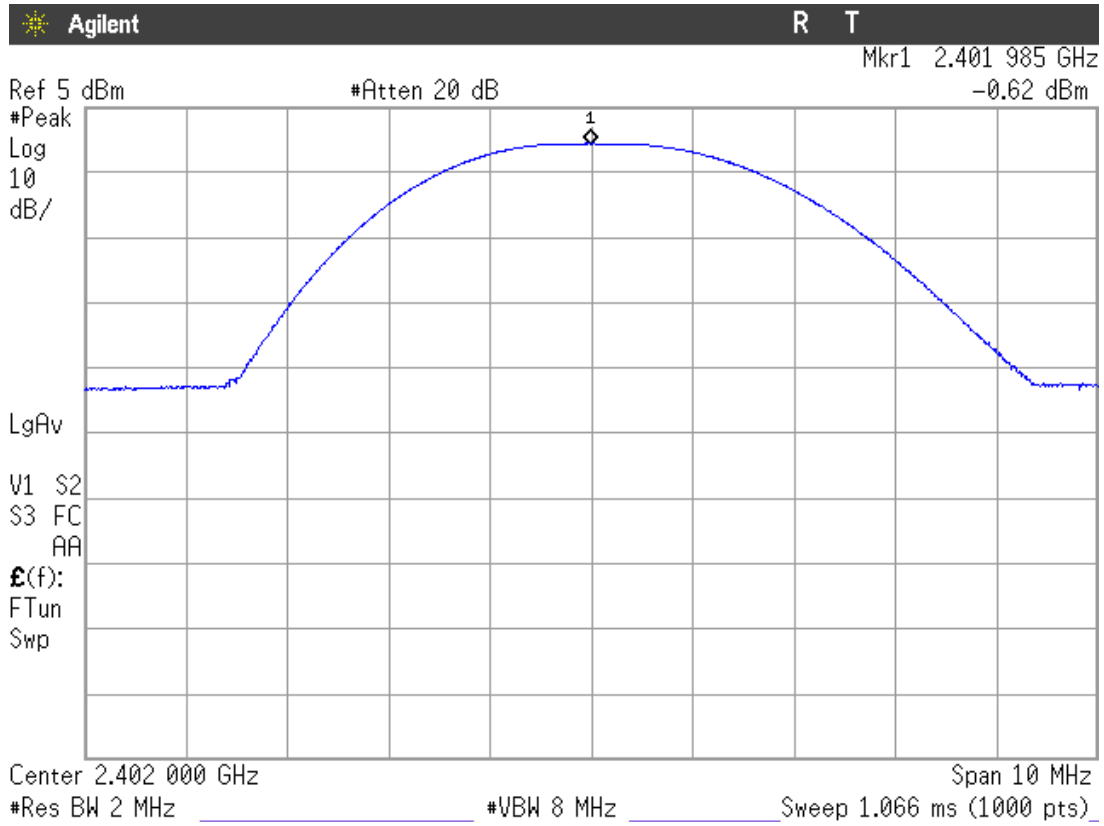
| | Lowest frequency 2402 MHz | Middle frequency 2440 MHz | Highest frequency 2480 MHz |
|------------------------------------|------------------------------|------------------------------|-------------------------------|
| Maximum conducted power (dBm) | -0.62 | -0.70 | -1.17 |
| Maximum corrected EIRP power (dBm) | 2.38 | 2.30 | 1.83 |
| 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.

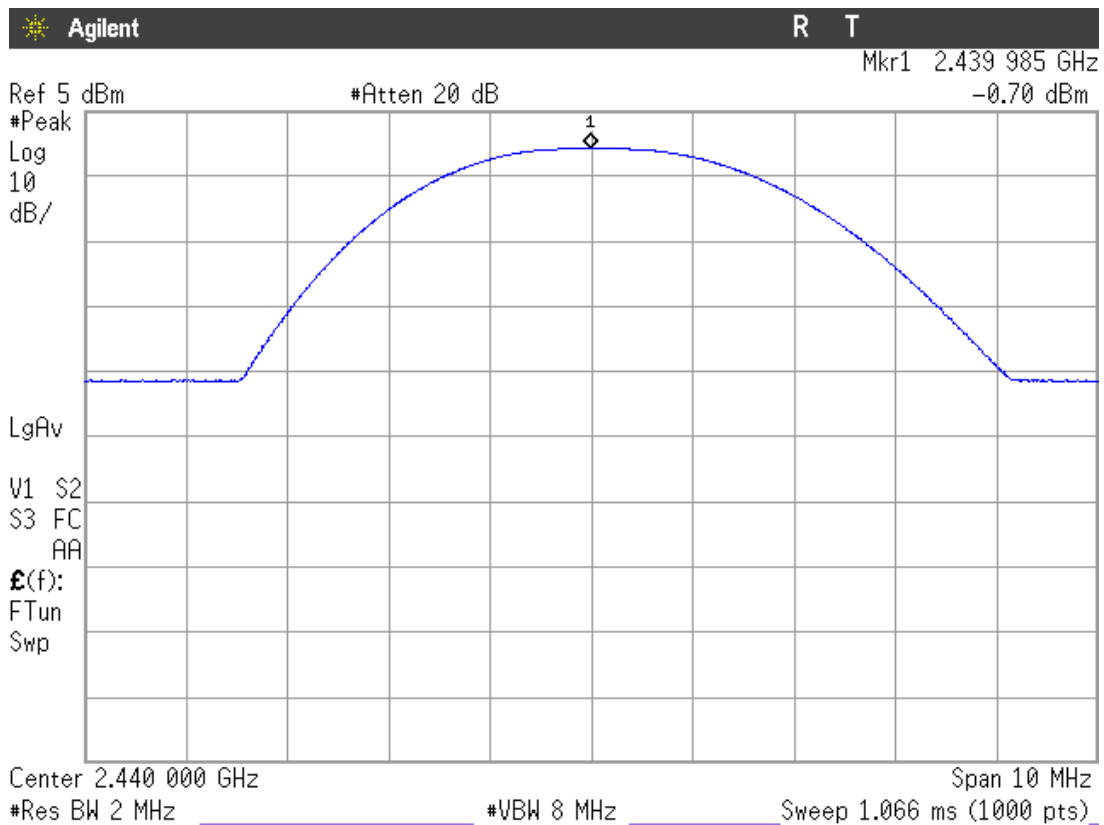
Verdict: PASS

CONDUCTED PEAK POWER.

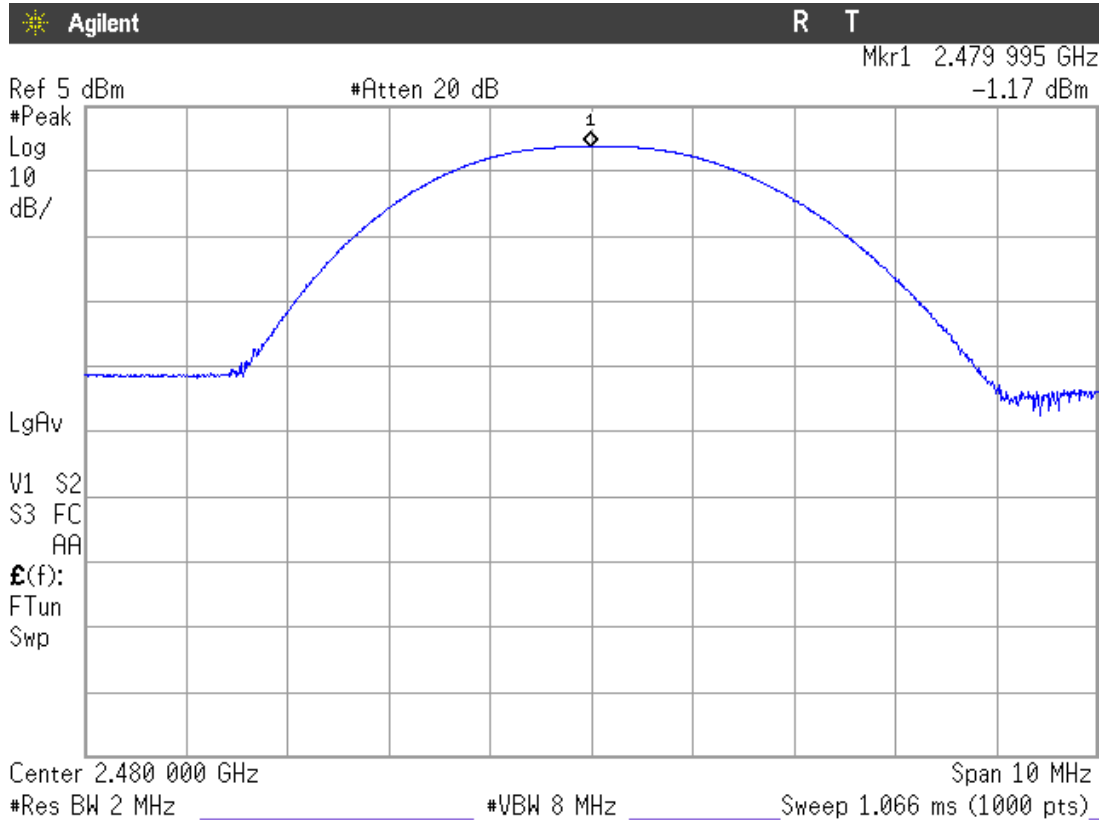
Lowest frequency



Middle frequency



Highest frequency



Section 15.247 Subclause (d). 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 2402 MHz | Middle frequency 2440 MHz | Highest frequency 2480 MHz |
|-----------------------------------|------------------------------|------------------------------|-------------------------------|
| Reference Level Measurement (dBm) | -0.66 | -0.75 | -1.29 |
| Measurement uncertainty (dB) | <±0.78 | | |

Lowest frequency 2402 MHz

All peaks are more than 20 dB below the limit.

Middle frequency 2440 MHz

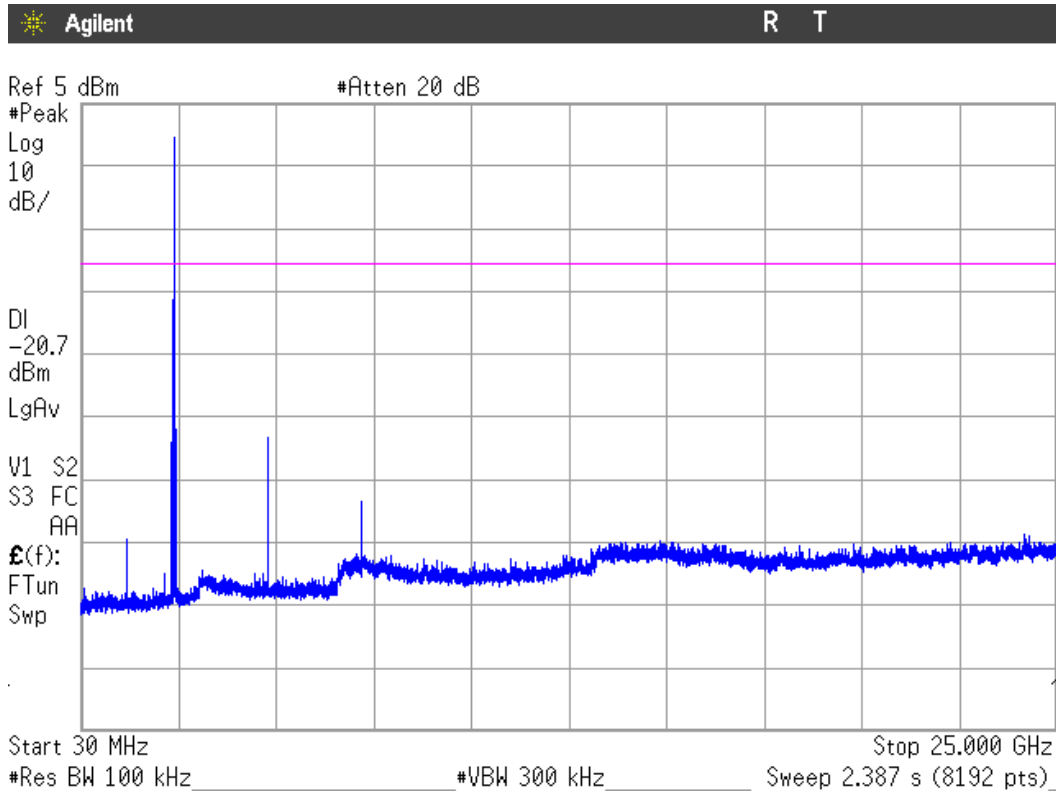
All peaks are more than 20 dB below the limit.

Highest frequency 2480 MHz

All peaks are more than 20 dB below the limit.

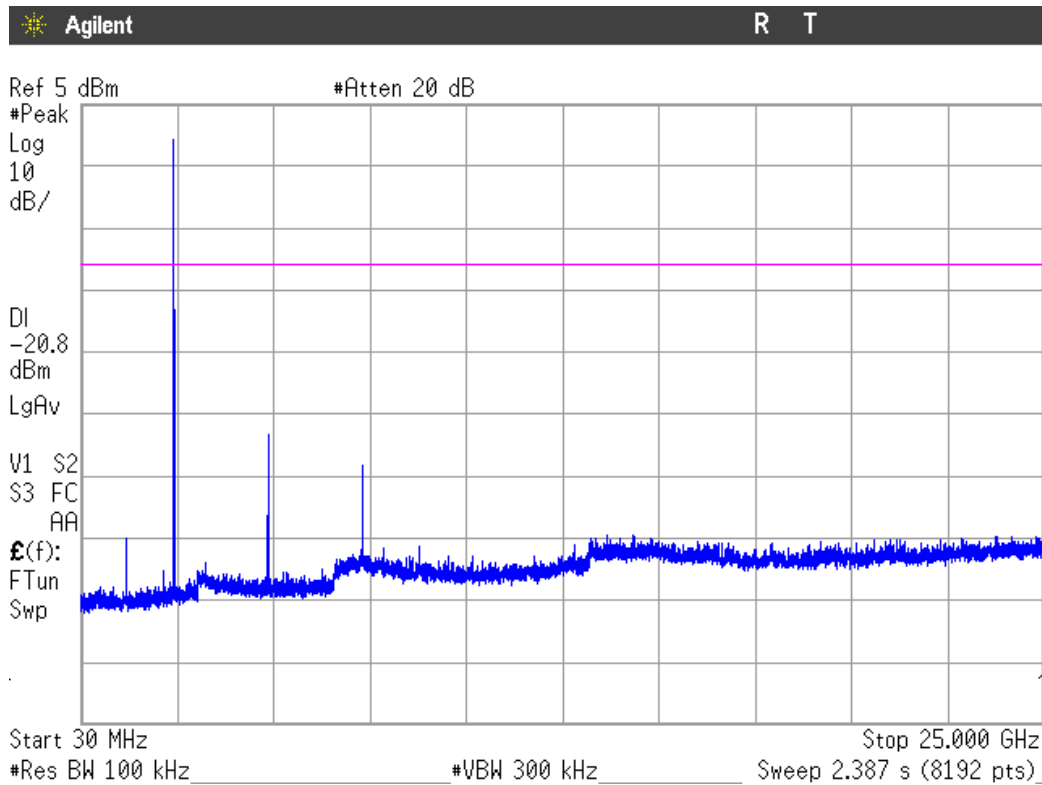
Verdict: PASS

Lowest frequency



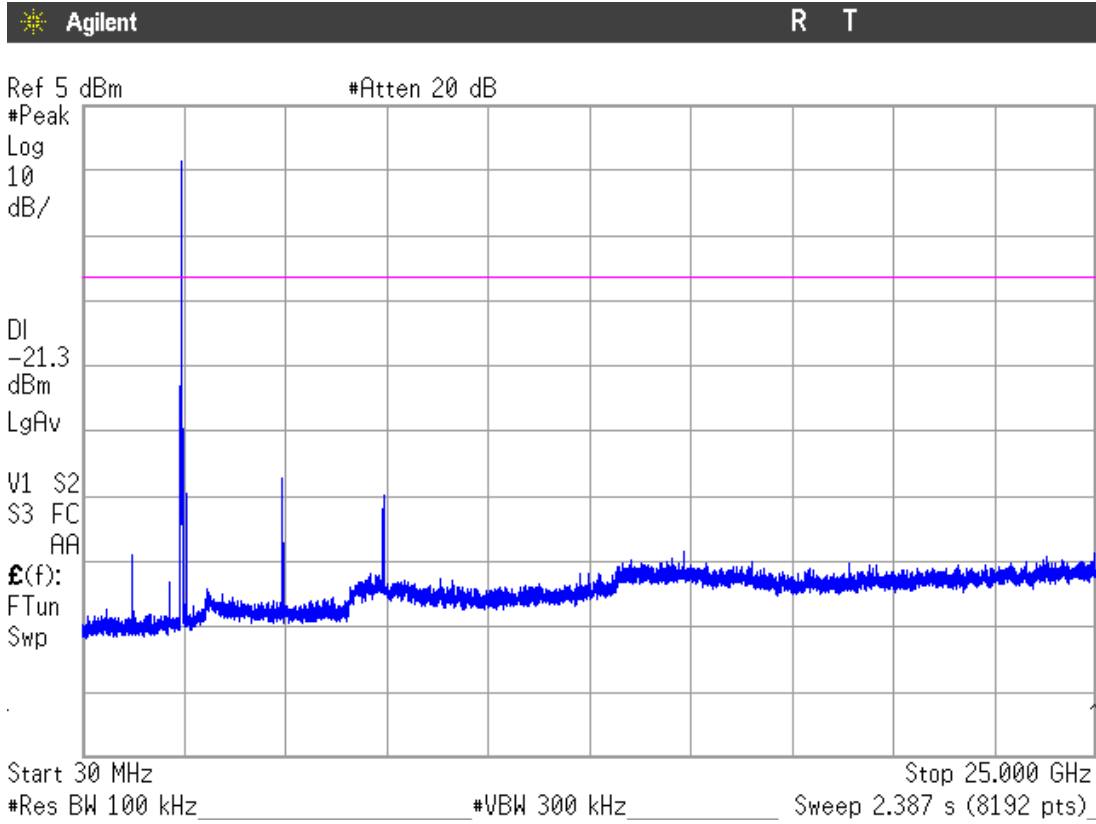
Note: The peak shown in the plot above the limit is the carrier frequency.

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). Band-edge emissions compliance (Transmitter)

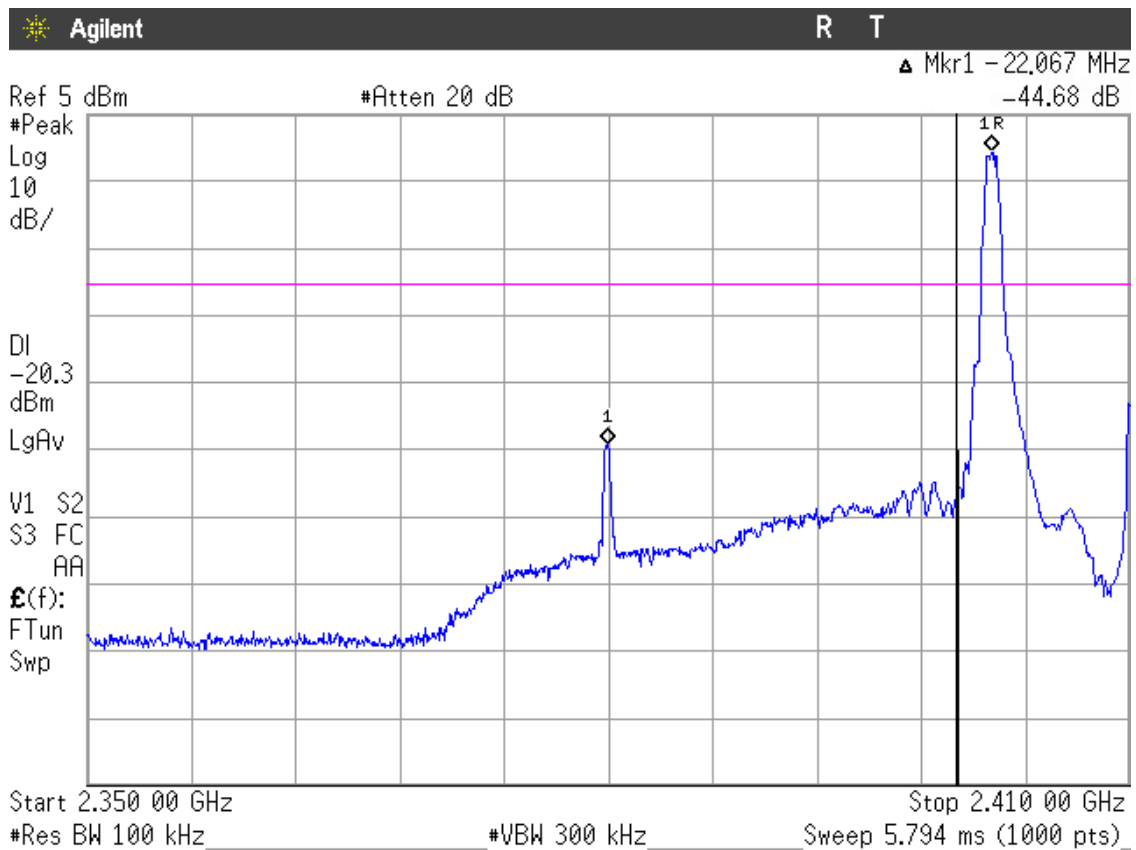
SPECIFICATION

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.

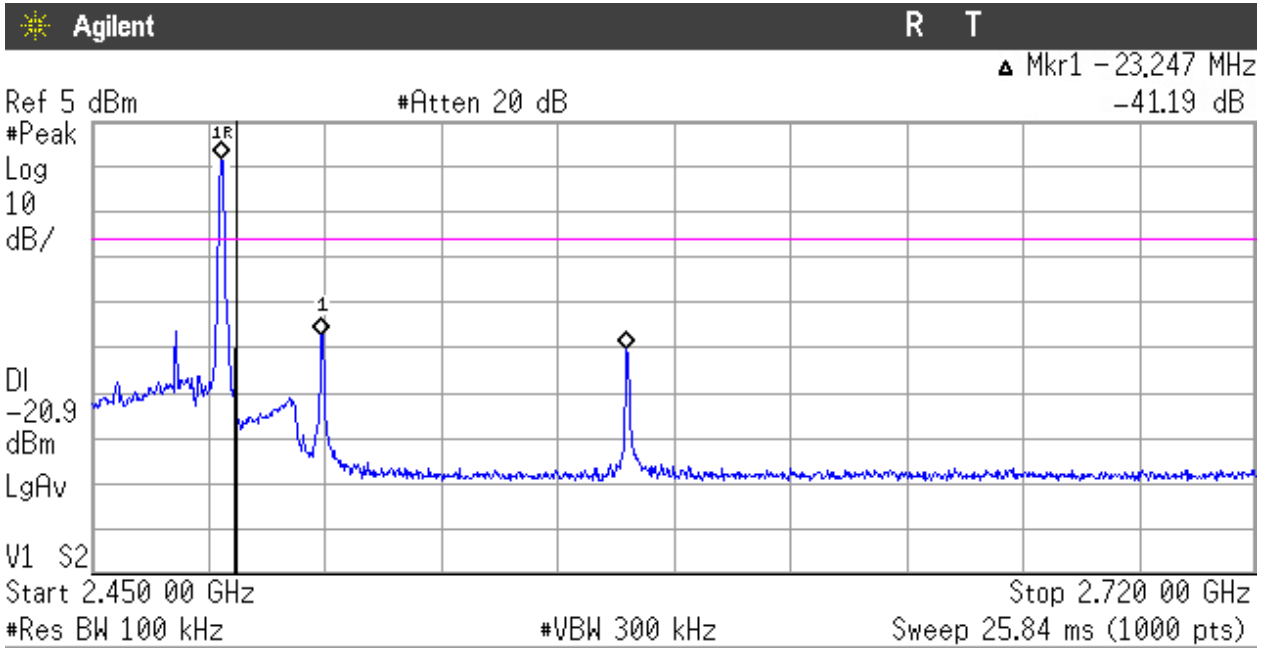
See next plot.



Verdict: PASS

2. HIGH FREQUENCY SECTION. CONDUCTED.

See next plot.



Verdict: PASS

Section 15.247 Subclause (e). 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 v03r04 dated 07/01/2016.

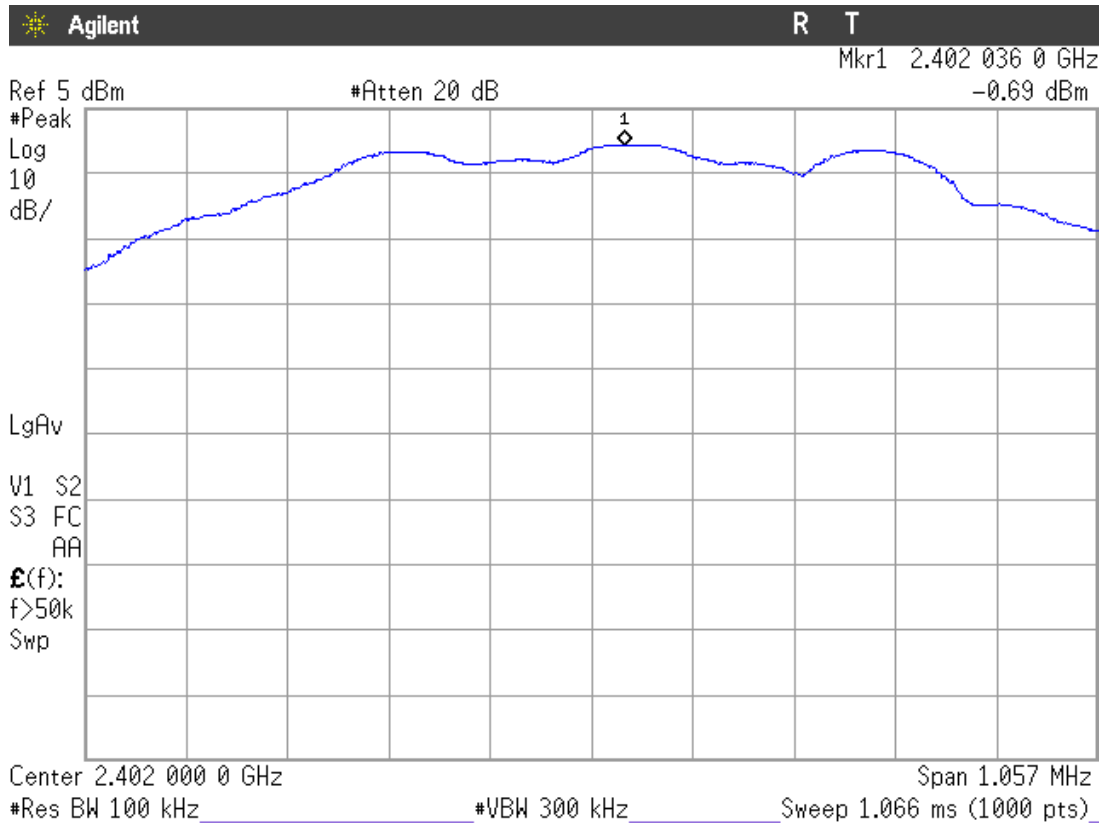
Power spectral density (see next plots).

| | Lowest frequency 2402 MHz | Middle frequency 2440 MHz | Highest frequency 2480 MHz |
|------------------------------|------------------------------|------------------------------|-------------------------------|
| Power spectral density (dBm) | -0.69 | -0.81 | -1.45 |
| Measurement uncertainty (dB) | <±0.78 | | |

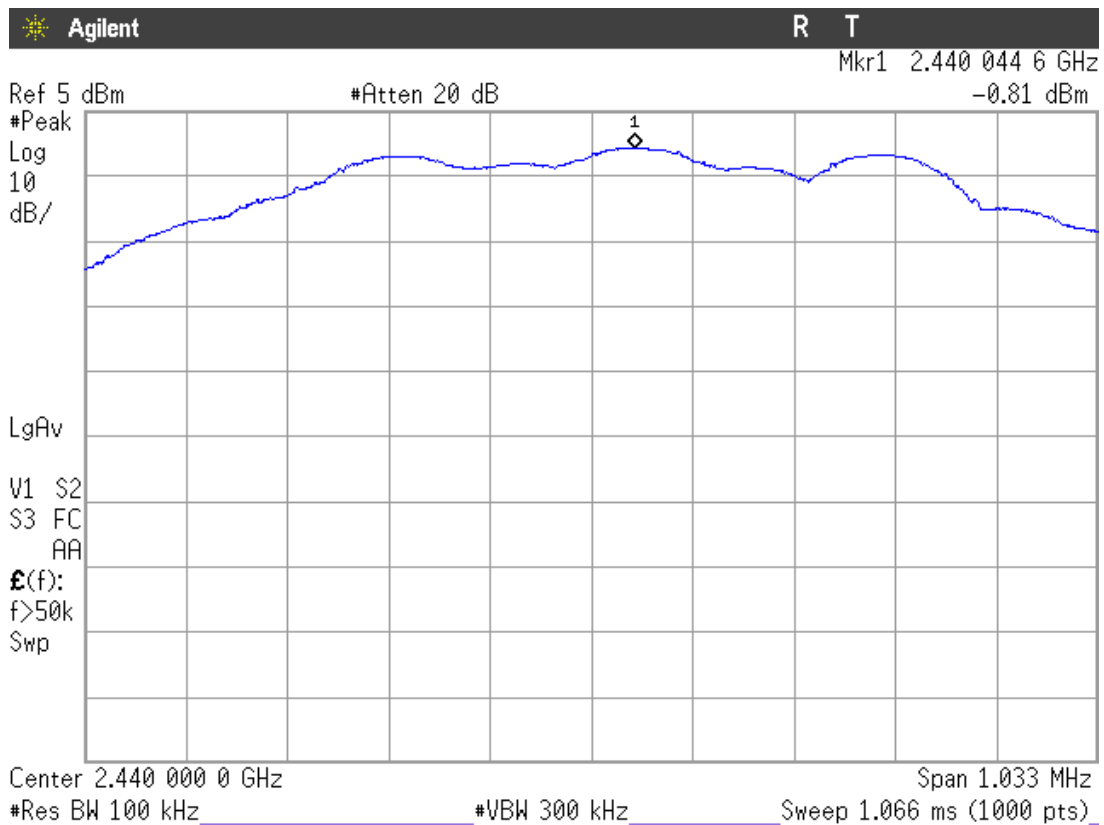
Verdict: PASS

POWER SPECTRAL DENSITY

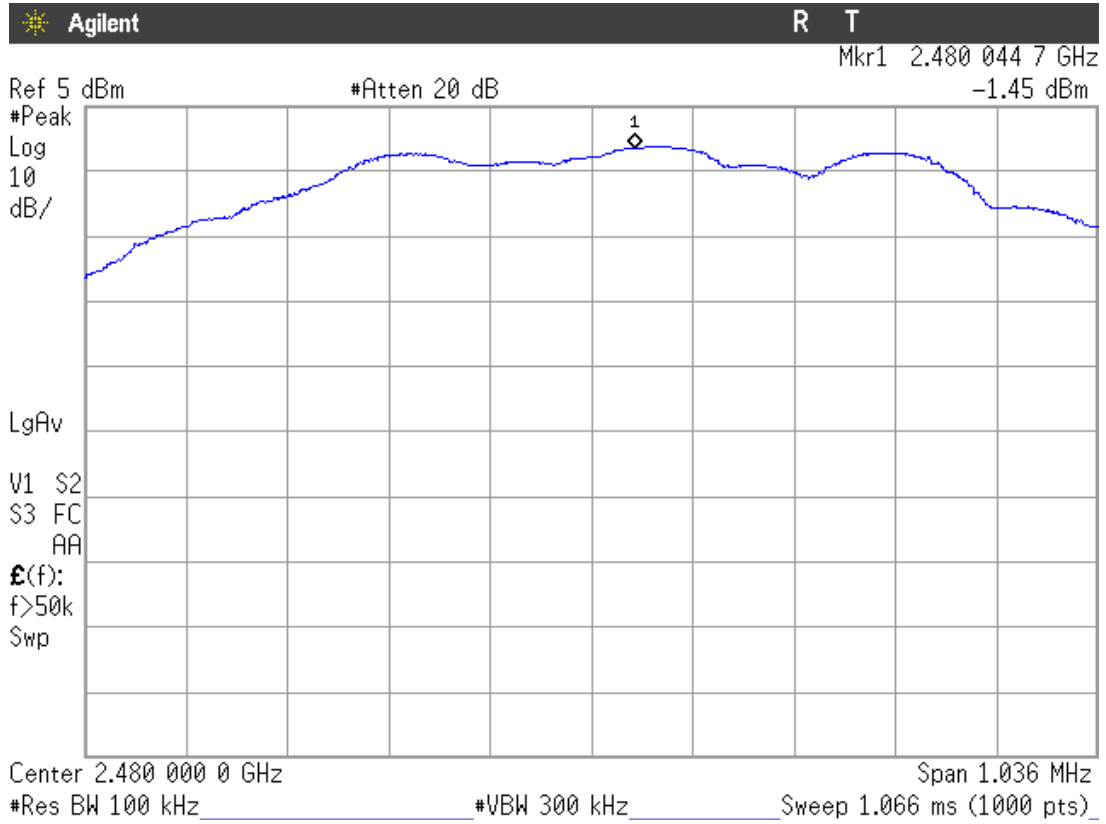
Lowest Channel



Middle Channel



Highest Channel



Section 15.247 Subclause (d). 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)):

| 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.

| Spurious frequency (MHz) | Polarization | Detector | Emission Level (dBµV/m) | Measurement Uncertainty (dB) |
|--------------------------|--------------|------------|-------------------------|------------------------------|
| 168.807000 | V | Quasi-Peak | 28.70 | ± 3.88 |
| 192.378000 | H | Quasi-Peak | 23.87 | ± 3.88 |
| 455.636000 | V | Quasi-Peak | 26.32 | ± 3.88 |
| 529.550000 | H | Quasi-Peak | 26.16 | ± 3.88 |

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 dBµV/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) |
|--------------------------|--------------|----------|-------------------------|------------------------------|
| 2.321020 | V | Peak | 53.30 | ± 4.69 |
| 2.377820 | V | Peak | 56.69 | ± 4.69 |
| | | AVG | 37.83 | ± 4.69 |
| 2.494369 | V | Peak | 49.35 | ± 4.69 |
| 4.803750 | H | Peak | 46.56 | ± 4.69 |
| 7.205750 | V | Peak | 44.51 | ± 4.69 |
| 9.608250 | V | Peak | 49.06 | ± 4.69 |

2. CHANNEL: MIDDLE (2440 MHz).

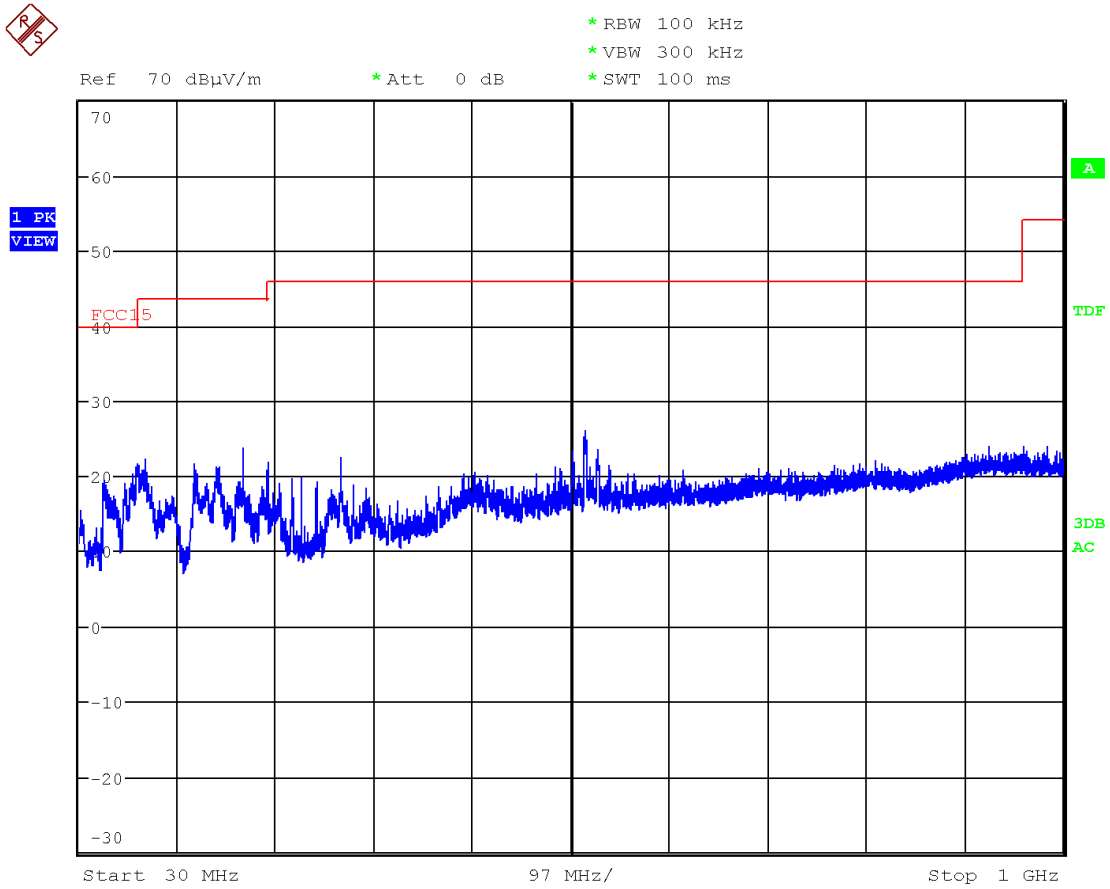
| Spurious frequency (GHz) | Polarization | Detector | Emission Level (dB μ V/m) | Measurement Uncertainty (dB) |
|--------------------------|--------------|----------|-------------------------------|------------------------------|
| 2.366468 | V | Peak | 48.21 | ± 4.69 |
| 2.483610 | V | Peak | 48.69 | ± 4.69 |
| 2.500700 | V | Peak | 54.93 | ± 4.69 |
| | | AVG | 40.67 | ± 4.69 |
| 4.879750 | H | Peak | 48.87 | ± 4.69 |
| 7.319750 | V | Peak | 49.11 | ± 4.69 |
| 9.759250 | V | Peak | 51.52 | ± 4.69 |

3. CHANNEL: HIGHEST (2480 MHz).

| Spurious frequency (GHz) | Polarization | Detector | Emission Level (dB μ V/m) | Measurement Uncertainty (dB) |
|--------------------------|--------------|----------|-------------------------------|------------------------------|
| 2.325044 | V | Peak | 48.29 | ± 4.69 |
| 2.488118 | V | Peak | 57.52 | ± 4.69 |
| | | AVG | 36.77 | ± 4.69 |
| 2.500900 | V | Peak | 57.24 | ± 4.69 |
| | | AVG | 43.76 | ± 4.69 |
| 4.959250 | V | Peak | 53.12 | ± 4.69 |
| 7.439750 | H | Peak | 50.11 | ± 4.69 |
| 9.921250 | V | Peak | 51.50 | ± 4.69 |
| 12.400250 | V | Peak | 49.94 | ± 4.69 |

Verdict: PASS

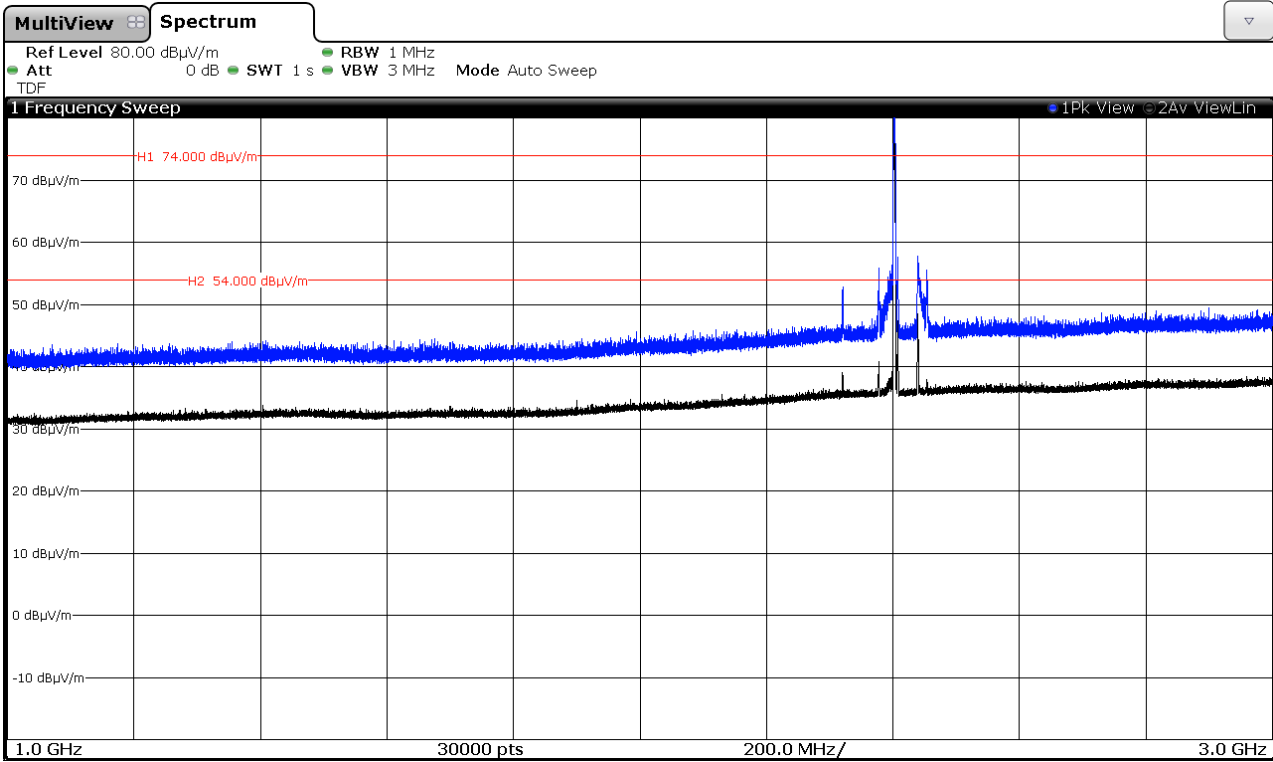
FREQUENCY RANGE 30 MHz-1000 MHz.



(This plot is valid for all three channels).

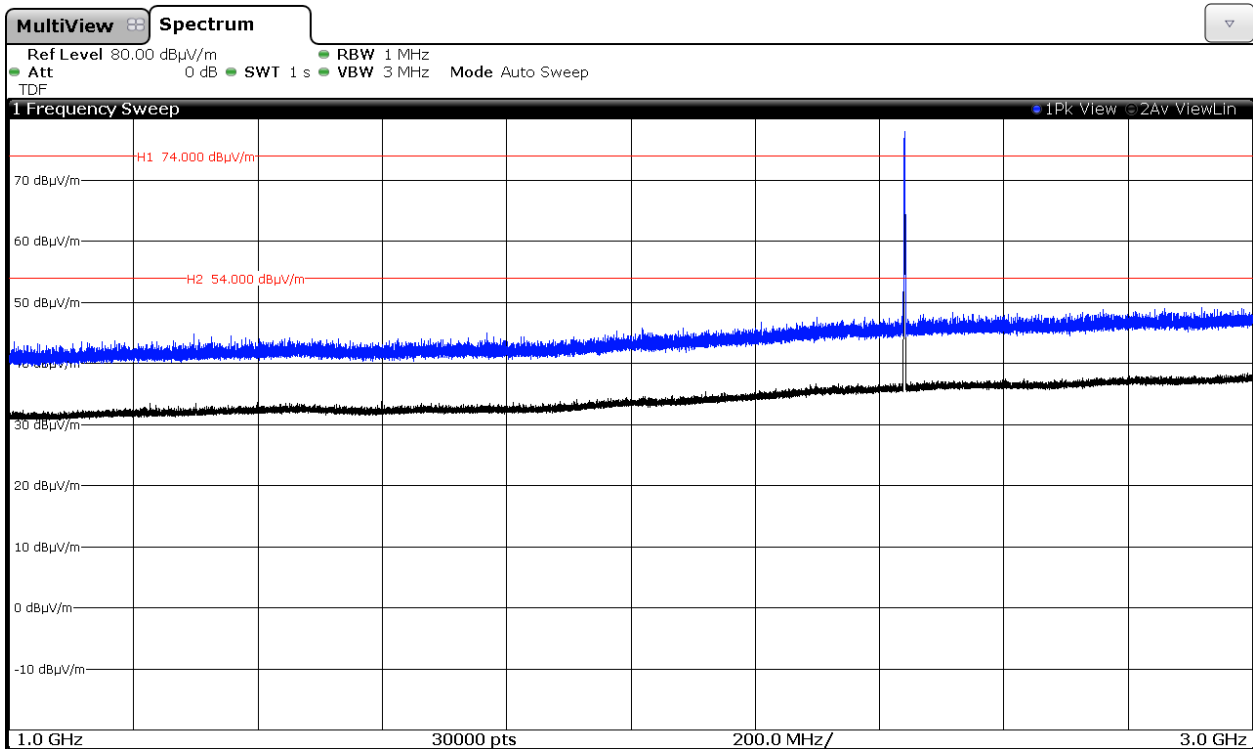
FREQUENCY RANGE 1 GHz to 3 GHz.

CHANNEL: Lowest (2402 MHz).



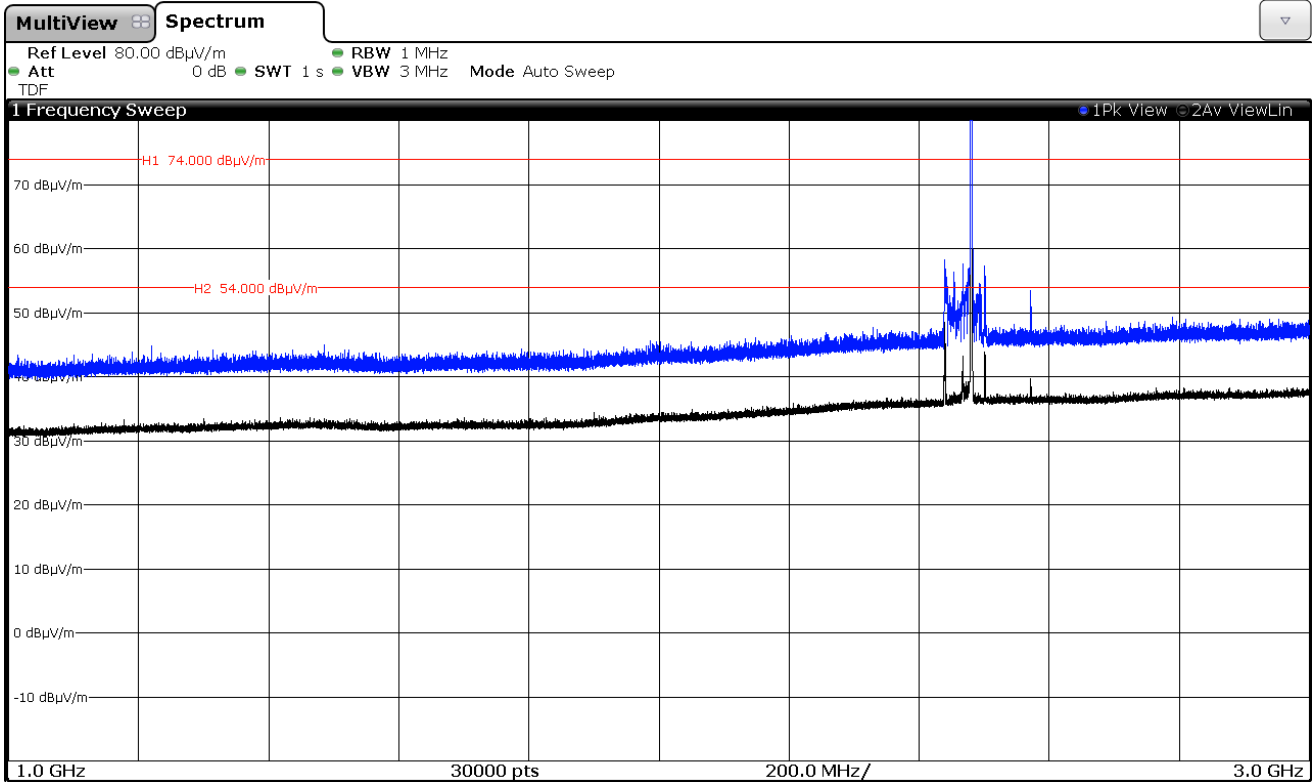
Note: The peak shown in the plot above the limit is the carrier frequency.

CHANNEL: Middle (2440 MHz).



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

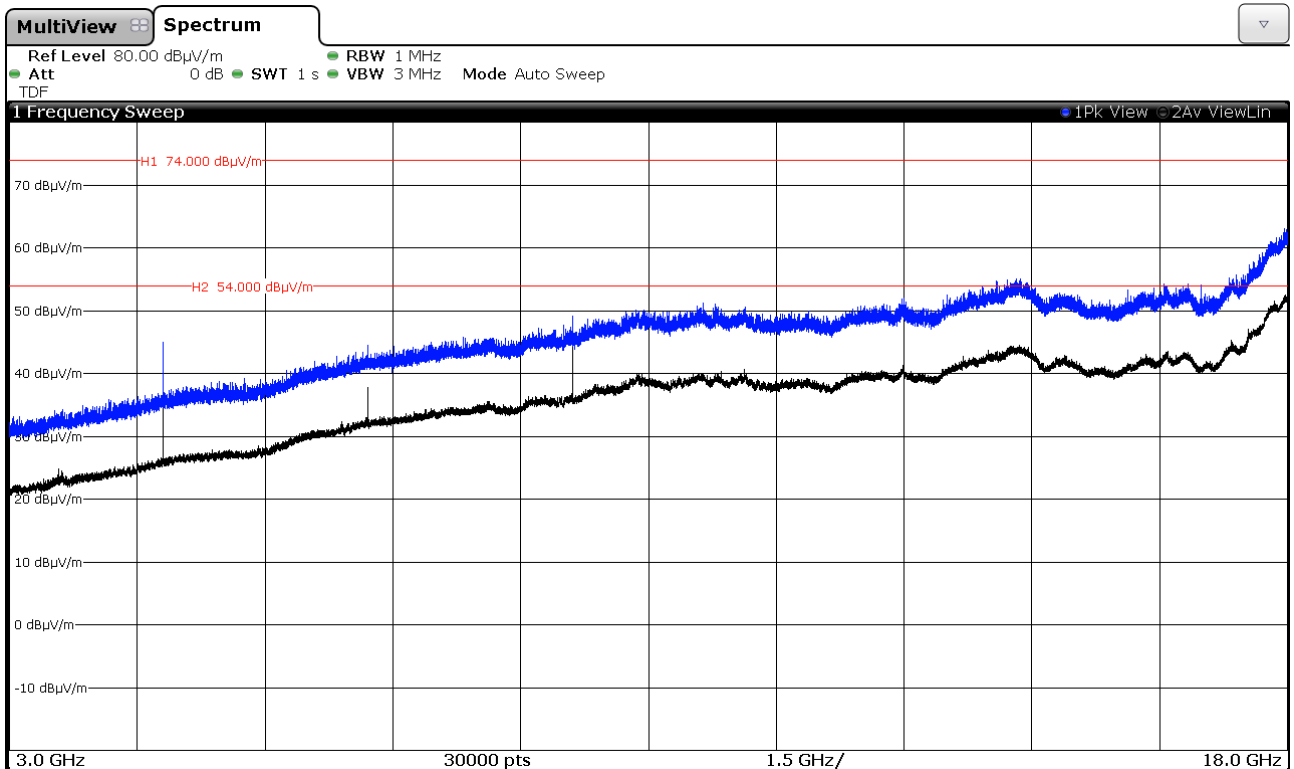
CHANNEL: Highest (2480 MHz).



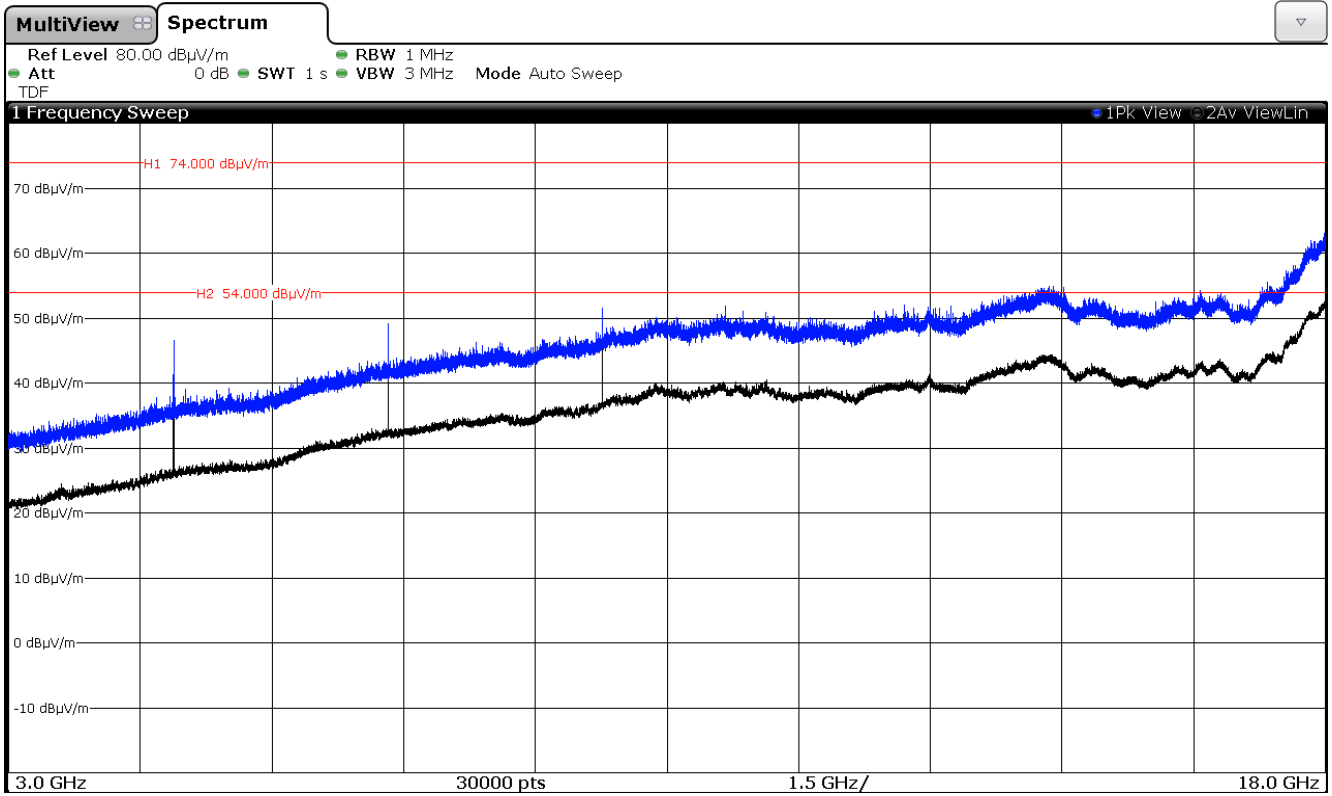
Note: The peak shown in the plot above the limit is the carrier frequency.

FREQUENCY RANGE 3 GHz to 18 GHz.

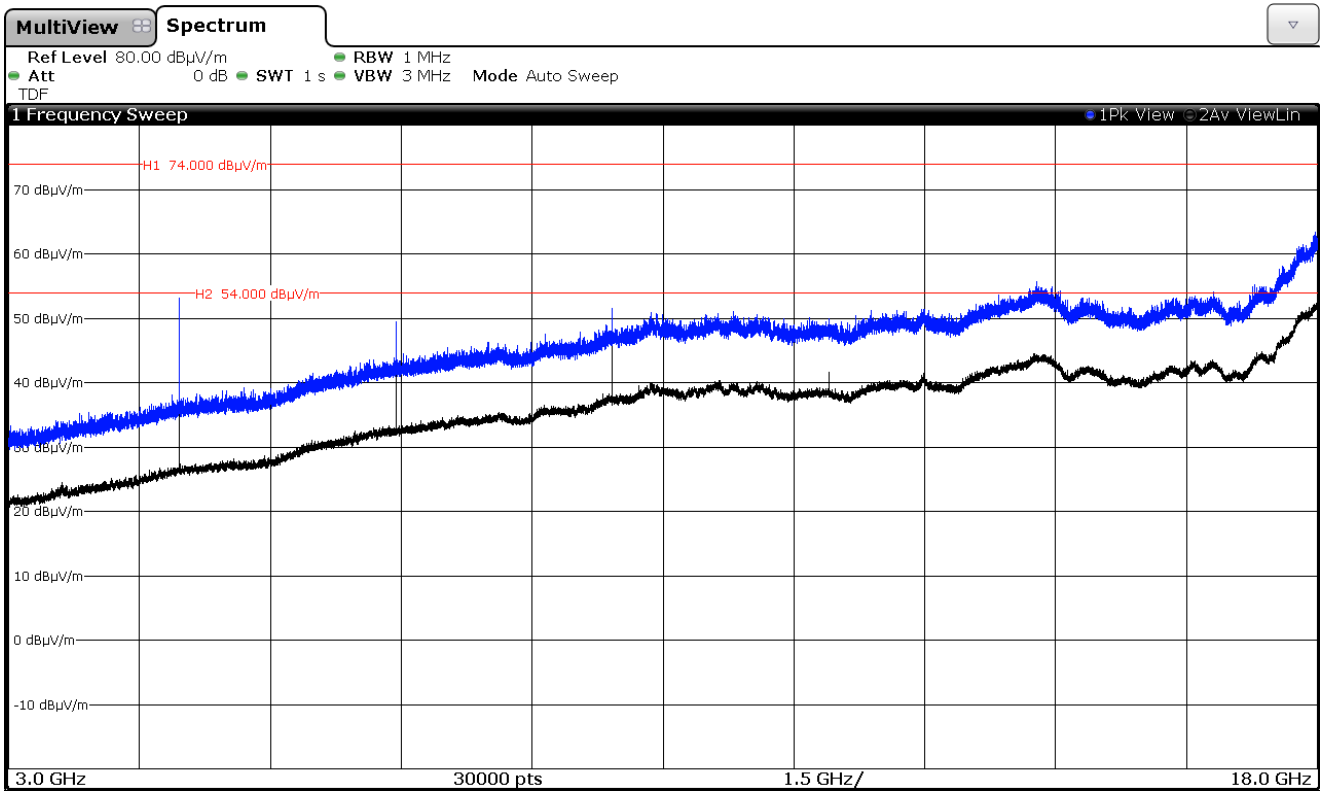
CHANNEL: Lowest (2402 MHz).



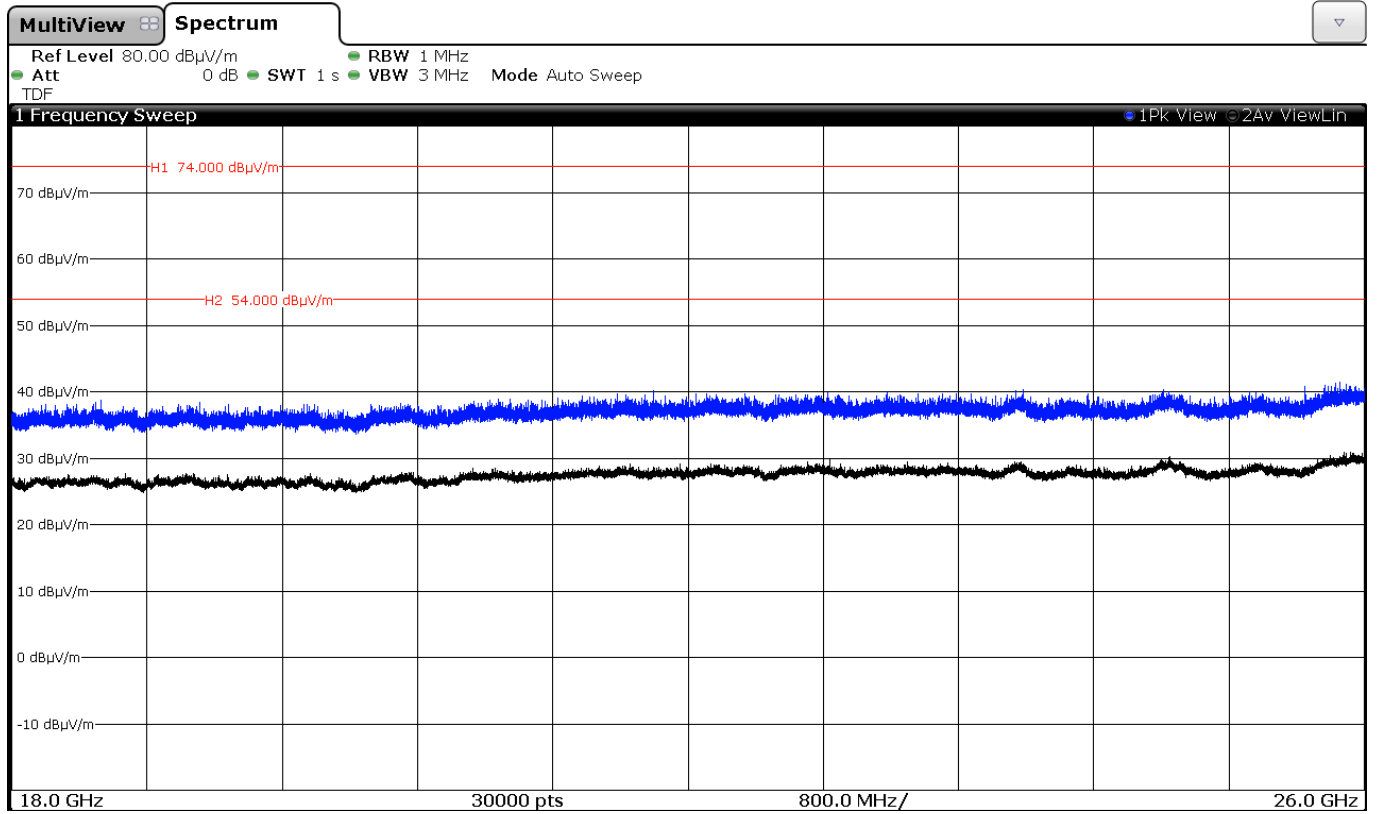
CHANNEL: Middle (2440 MHz).



CHANNEL: Highest (2480 MHz).



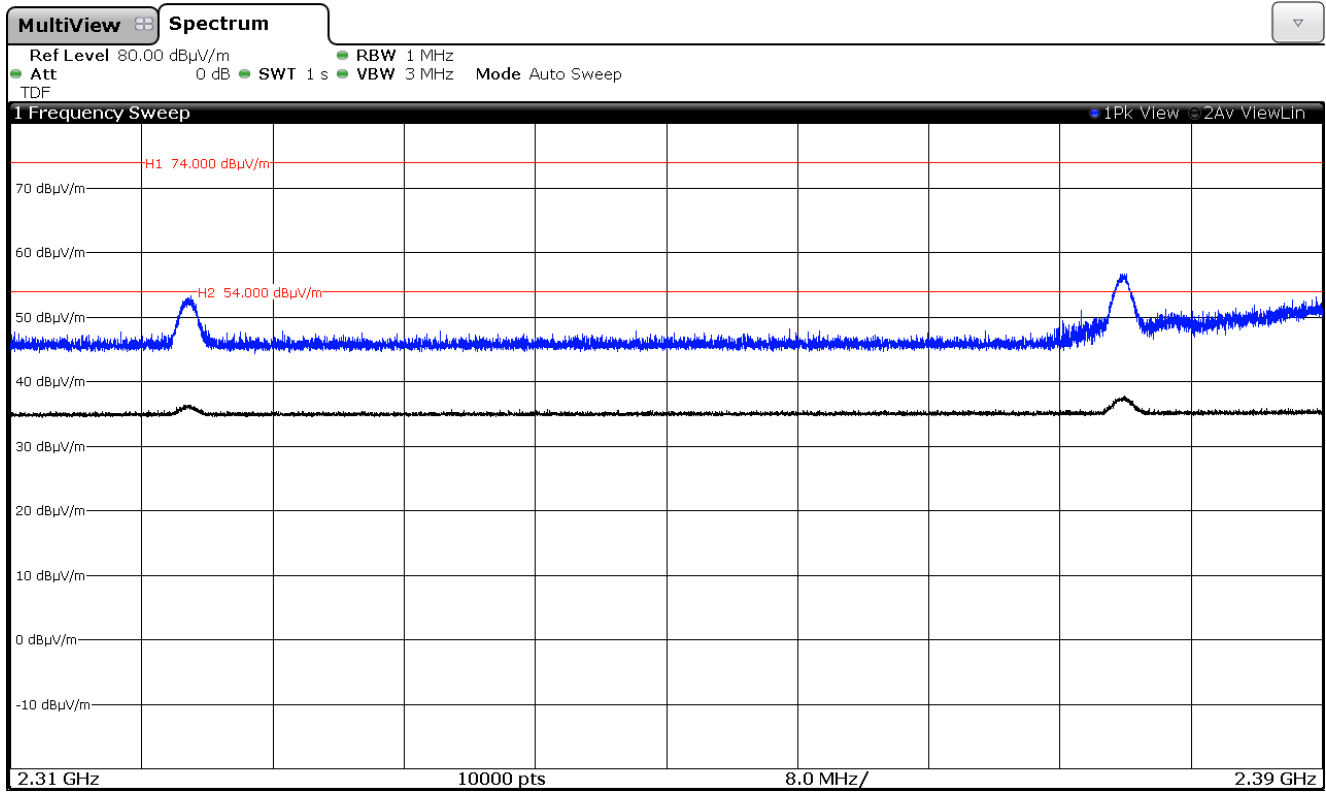
FREQUENCY RANGE 18 GHz to 26 GHz.



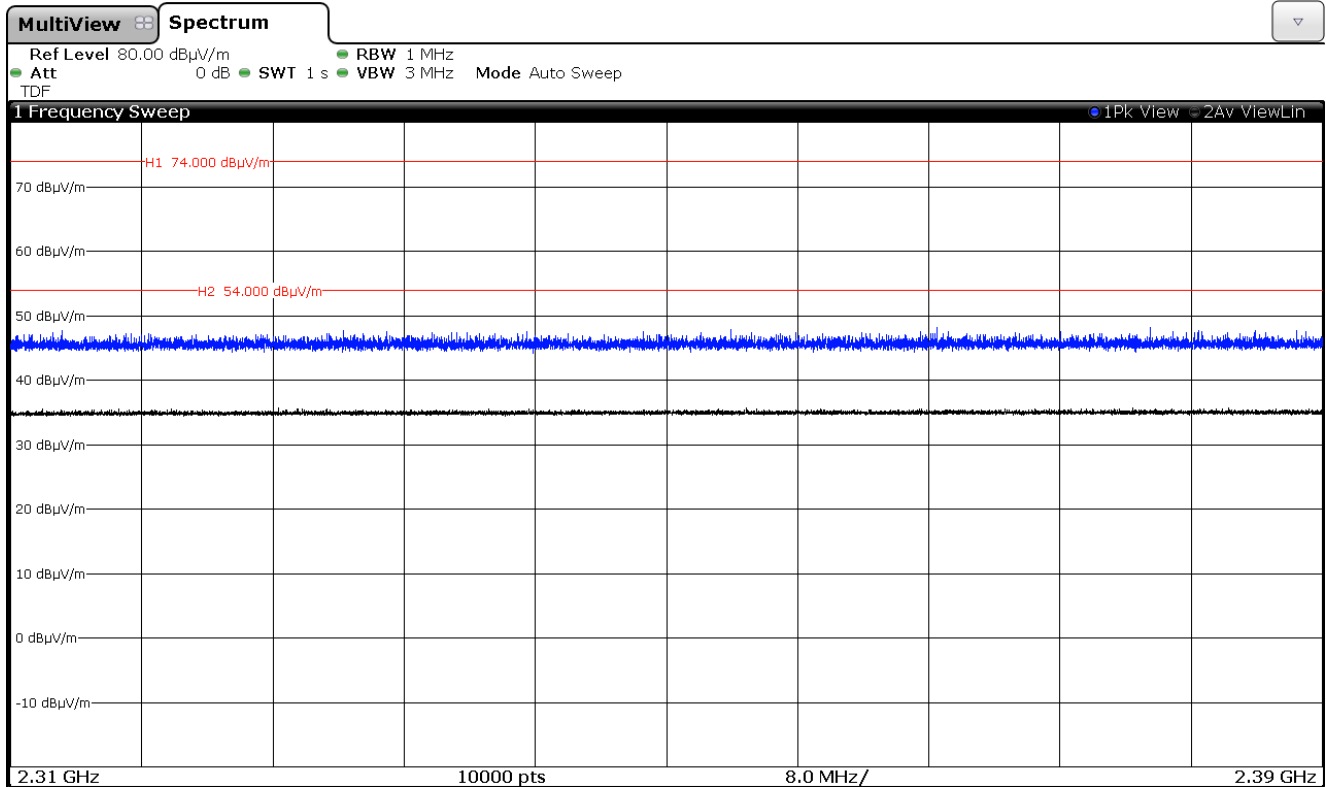
(This plot is valid for all three channels).

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

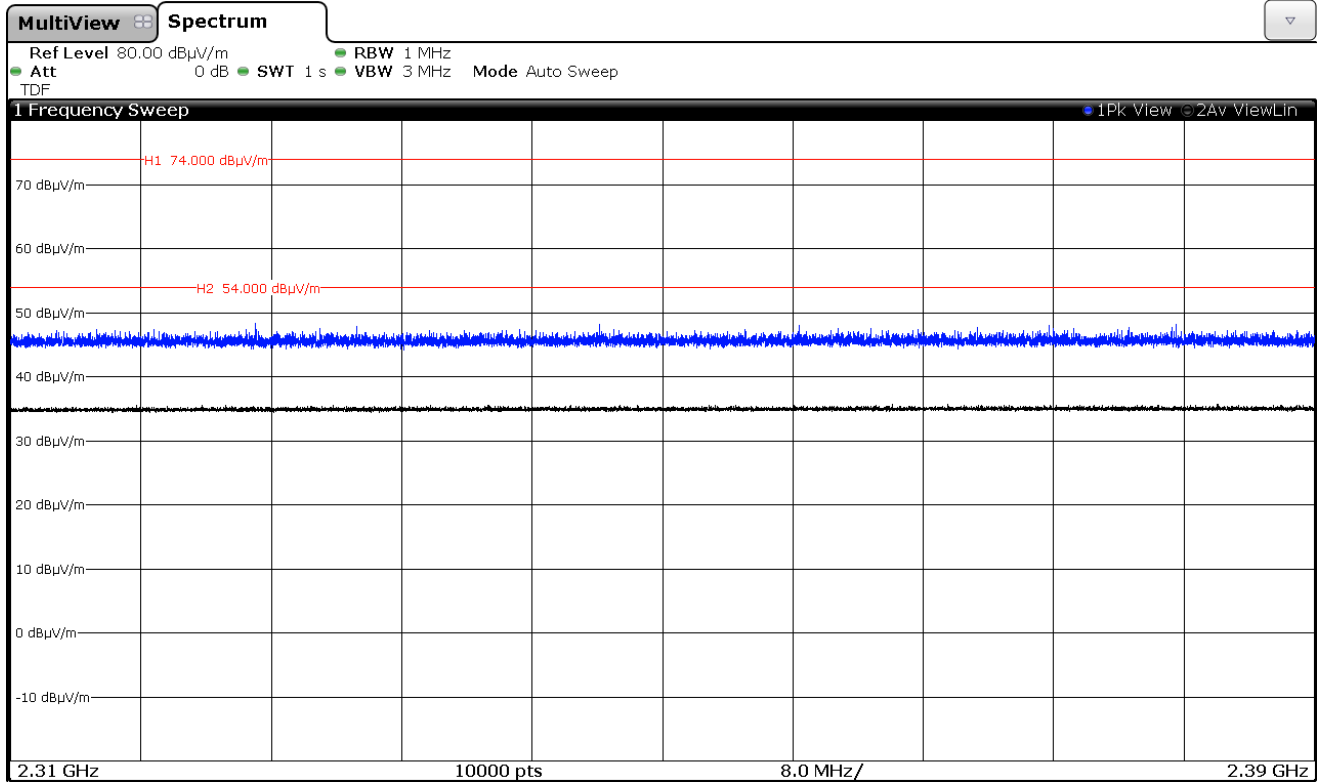
CHANNEL: Lowest (2402 MHz).



CHANNEL: Middle (2440 MHz).

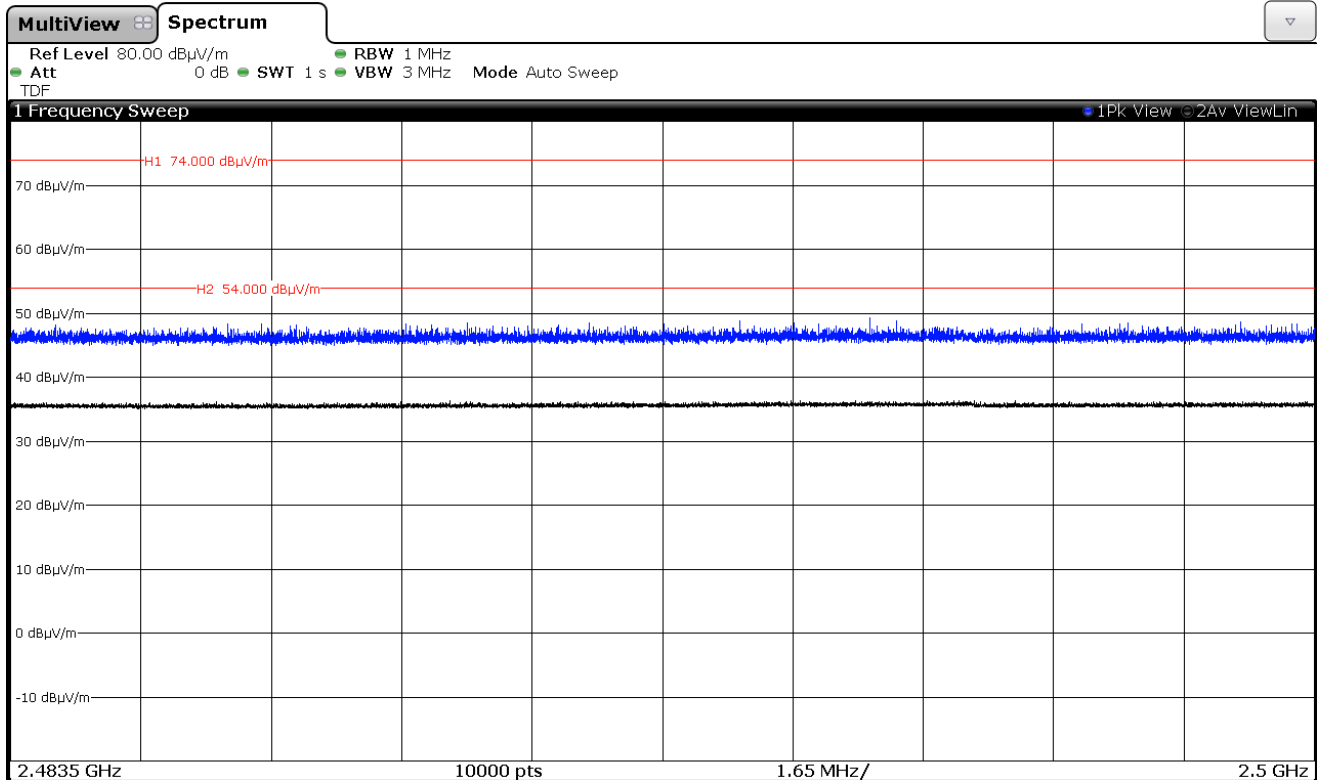


CHANNEL: Highest (2480 MHz).

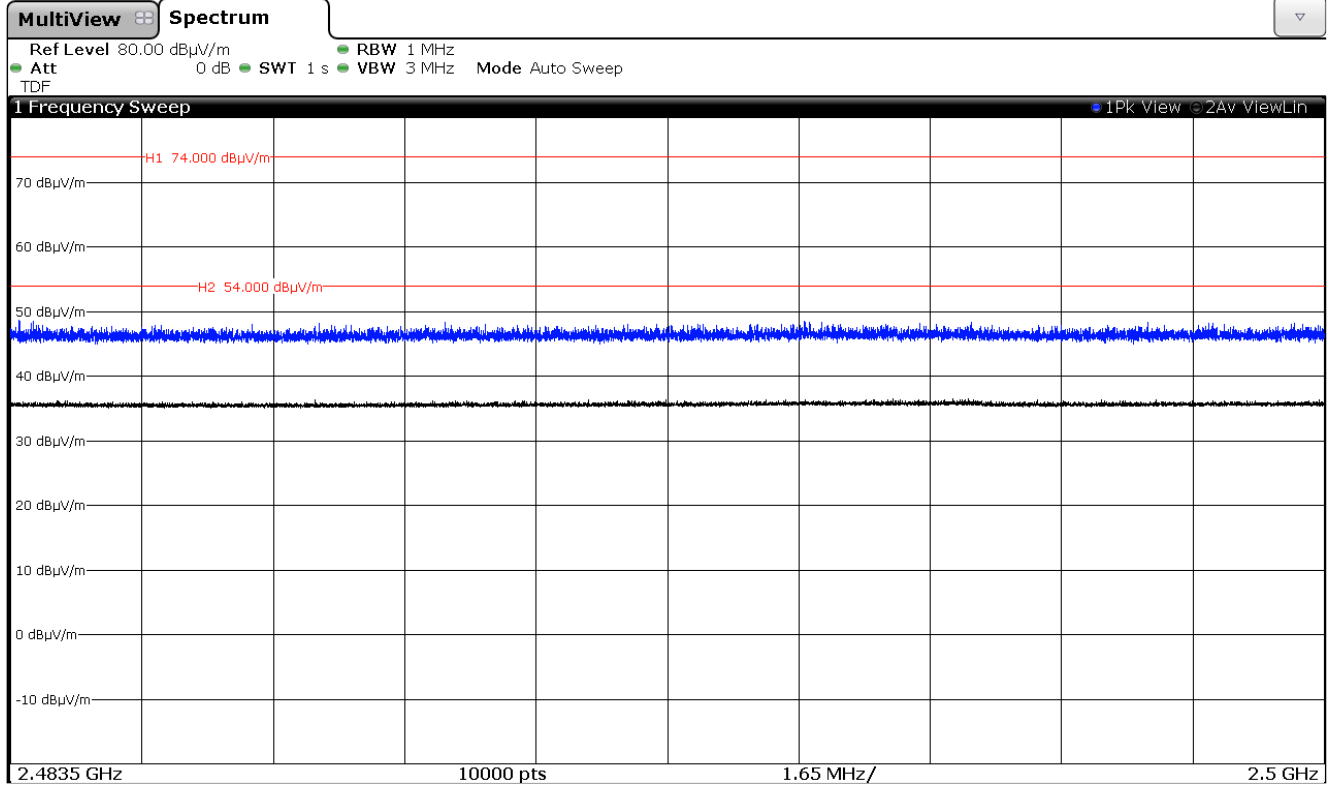


FREQUENCY RANGE 2.4835 GHz to 2.5 GHz. (RESTRICTED BAND)

CHANNEL: Lowest (2402 MHz).



CHANNEL: Middle (2440 MHz).



CHANNEL: Highest (2480 MHz).

