



FCC LISTED, REGISTRATION  
NUMBER: 720267

ISED LISTED REGISTRATION  
NUMBER 4621A-2

Informe de ensayo nº:  
Test report No:

**NIE: 55320RRF.003**

## 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.

|                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Identificación del objeto ensayado.....:</b><br>Identification of item tested                | Remote control                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Marca .....</b><br>Trademark                                                                 | Phonak                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Modelo y/o referencia tipo .....</b><br>Model and /or type reference                         | Roger Covert C remote                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Other identification of the product .....</b>                                                | FCC ID: KWCACC04<br>IC:2262A-ACC04                                                                                                                                                                                                                                                                                                                                                           |
| <b>Final HW version .....</b>                                                                   | 3.0                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Final SW version .....</b>                                                                   | 1.0.36310                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Características .....</b><br>Features                                                        | Not provided data                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Solicitante .....</b><br>Applicant                                                           | Phonak Inc<br>4520 Weaver Parkway, Warrenville 60555, IL, USA                                                                                                                                                                                                                                                                                                                                |
| <b>Método de ensayo solicitado, norma.....:</b><br>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.<br>USA FCC Part 15.209 10-1-16 Edition: Radiated emission limits; general requirements.<br>CANADA RSS-247 Issue 2 (February 2017).<br>CANADA RSS-Gen Issue 4 (November 2014).<br>ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices. |
| <b>Resultado.....:</b><br>Summary                                                               | IN COMPLIANCE                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Aprobado por (nombre / cargo y firma) .....</b><br>Approved by (name / position & signature) | A. Llamas<br>RF Lab. Manager<br>                                                                                                                                                                                                                                                                         |
| <b>Fecha de realización .....</b><br>Date of issue                                              | 2017-12-22                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Formato de informe No. ....:</b><br>Report template No                                       | FDT08_20                                                                                                                                                                                                                                                                                                                                                                                     |

Firmado digitalmente  
por ALEJANDRO  
LLAMAS RODRIGUEZ  
Fecha: 2017.12.22  
12:11:03 +01'00'

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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 conjunction 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

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2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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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.

## 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 |
|------------|-------------------|-----------------------|-----------|-------------------|
| 55320/006  | Remote control RF | Roger Covert C remote | ---       | 2017-10-23        |

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 |
|------------|--------------------------------|-----------------------|-----------|-------------------|
| 55320/014  | Remote Control RF<br>conducted | Roger Covert C remote | ---       | 2017-10-23        |

Auxiliary elements used with the sample S/02:

| Control N° | Description               | Model | Serial N° | Date of reception |
|------------|---------------------------|-------|-----------|-------------------|
| 55320/020  | RF wire conducted testing | ---   | ---       | 2017-10-23        |

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

## Test sample description

The test sample consists of a remote control.

## Identification of the client

PHONAK COMMUNICATIONS AG  
Laenggasse 17  
3280 Murten, Switzerland

## Testing period

The performed test started on 2017-10-25 and finished on 2017-11-27.  
The tests have been performed at DEKRA Testing and Certification.

## Environmental conditions

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

|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Temperature</b>                   | Min. = 15 °C<br>Max. = 35 °C |
| <b>Relative humidity</b>             | Min. = 20 %<br>Max. = 75 %   |
| <b>Shielding effectiveness</b>       | > 100 dB                     |
| <b>Electric insulation</b>           | > 10 kΩ                      |
| <b>Reference resistance to earth</b> | < 1 Ω                        |

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

|                                      |                                                                                             |
|--------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Temperature</b>                   | Min. = 15 °C<br>Max. = 35 °C                                                                |
| <b>Relative humidity</b>             | Min. = 20 %<br>Max. = 75 %                                                                  |
| <b>Air pressure</b>                  | Min. = 860 mbar<br>Max. = 1060 mbar                                                         |
| <b>Shielding effectiveness</b>       | > 100 dB                                                                                    |
| <b>Electric insulation</b>           | > 10 kΩ                                                                                     |
| <b>Reference resistance to earth</b> | < 1 Ω                                                                                       |
| <b>Normal site attenuation (NSA)</b> | < ±4 dB at 10 m distance between item under test and receiver antenna, (30 MHz to 1000 MHz) |
| <b>Field homogeneity</b>             | 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:

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| <b>Temperature</b>                   | Min. = 15 °C<br>Max. = 35 °C        |
| <b>Relative humidity</b>             | Min. = 20 %<br>Max. = 75 %          |
| <b>Air pressure</b>                  | Min. = 860 mbar<br>Max. = 1060 mbar |
| <b>Shielding effectiveness</b>       | > 100 dB                            |
| <b>Electric insulation</b>           | > 10 kΩ                             |
| <b>Reference resistance to earth</b> | < 1 Ω                               |

## Remarks and comments

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

2: Used instrumentation:

### Conducted Measurements

|    |                                           | Last Cal. date | Cal. due date |
|----|-------------------------------------------|----------------|---------------|
| 1. | Signal and Spectrum analyser R&S FSV 40   | 2017/07        | 2019/07       |
| 2. | Spectrum analyser Agilent E4440A          | 2017/10        | 2019/10       |
| 3. | DC 30 V/ 5 A U8002A KEYSIGHT TECHNOLOGIES | N.A.           | N.A.          |
| 4. | Digital Multimeter Fluke 179              | 2017/05        | 2018/05       |

### 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                          | 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 20 MHz-7 GHz PAM-0207                           | 2017/09        | 2018/09       |
| 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       |

## Testing verdicts

|                             |     |
|-----------------------------|-----|
| <b>Not applicable</b> ..... | N/A |
| <b>Pass</b> .....           | P   |
| <b>Fail</b> .....           | F   |
| <b>Not measured</b> .....   | N/M |

### 1. Proprietary protocol 2.4GHz.

| FCC PART 15 PARAGRAPH                                     |                                                           | VERDICT |   |   |    |
|-----------------------------------------------------------|-----------------------------------------------------------|---------|---|---|----|
|                                                           |                                                           | NA      | P | F | NM |
| FCC 15.247 Subclause (a) (1) / RSS-247 Clause 5.1 (b)     | 20 dB Bandwidth and Carrier frequency separation          |         | P |   |    |
| FCC 15.247 Subclause (a)(1)(iii) / RSS-247 Clause 5.1 (d) | Number of hopping channels                                |         | P |   |    |
| FCC 15.247 Subclause (a)(1)(iii) / RSS-247 Clause 5.1 (d) | Time of occupancy (Dwell Time)                            |         | P |   |    |
| FCC 15.247 Subclause (b) / RSS-247 Clause 5.4 (b)         | Maximum peak output power and antenna gain                |         | P |   |    |
| FCC 15.247 Subclause (d) / RSS-247 Clause 5.5.            | Band-edge compliance of conducted emissions (Transmitter) |         | P |   |    |
| FCC 15.247 Subclause (d) / RSS-247 Clause 5.5             | Emission limitations conducted (Transmitter)              |         | P |   |    |
| FCC 15.247 Subclause (d) / RSS-247 Clause 5.5             | Emission limitations radiated (Transmitter)               |         | P |   |    |

## Appendix A – Test result. Proprietary protocol 2.4GHz.

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## TEST CONDITIONS

Power supply (V):

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

Type of power supply = Internal battery (CR2032).

Type of antenna: Internal antenna.

Declared Gain (maximum) = +2 dBi. (Antenna gain)

## 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 low loss RF cables with sma type connectors. The reading in the spectrum analyzer is corrected taking into account the cable loss.



The DC supply voltage is applied using an external power supply which voltage is calibrated using a multimeter.

## RADIATED MEASUREMENTS

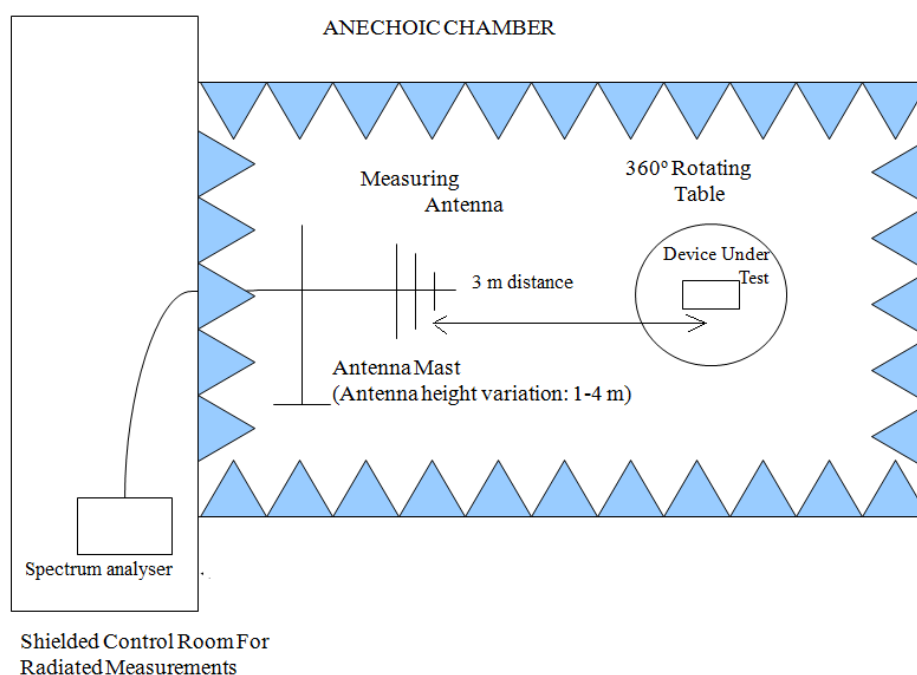
All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m for the frequency range 30 MHz-1000 MHz (30 MHz-1000 MHz Bilog antenna) and at a distance of 1m for the frequency range 1 GHz-25 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40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

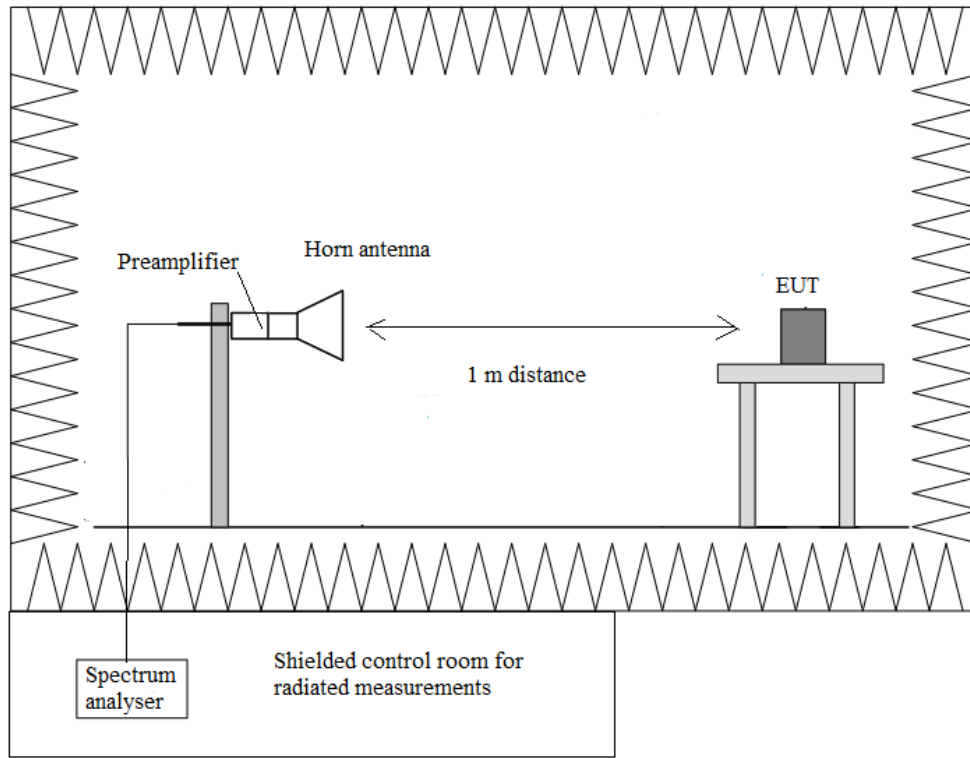
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

### Radiated measurements setup $f < 1$ GHz



## Radiated measurements setup $f > 1$ GHz



## FCC Section 15.247 Subclause (a) (1) / RSS-247 Clause 5.1 (b). 20 dB Bandwidth and Carrier frequency separation

### SPECIFICATION

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

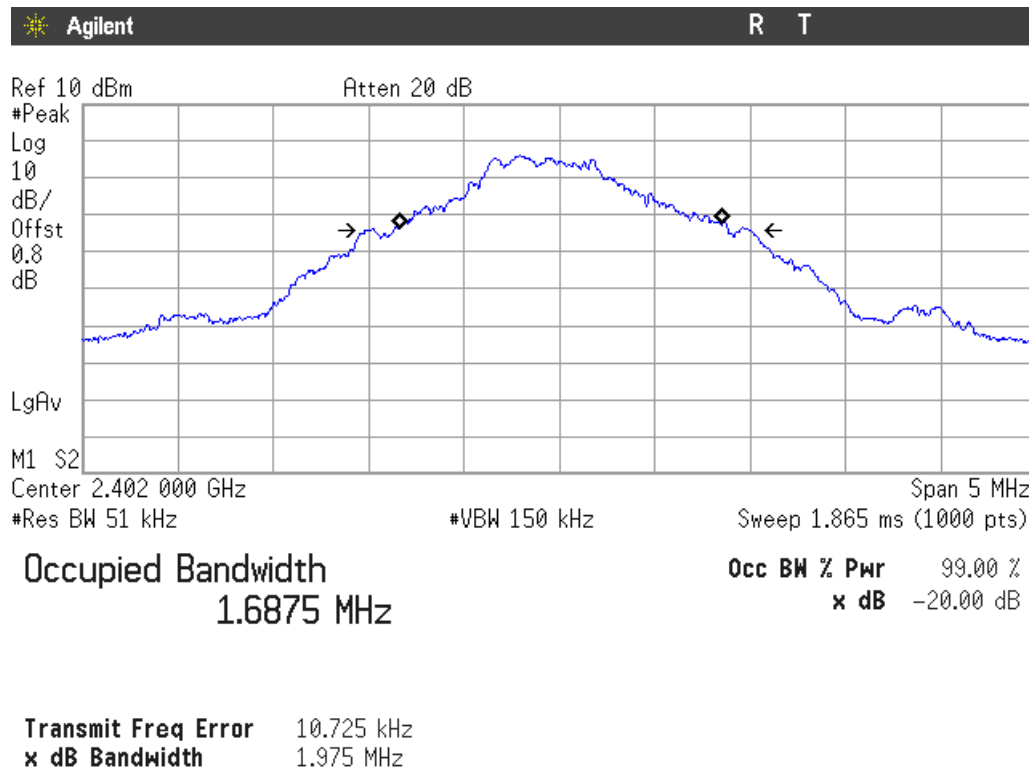
### RESULTS

(See next plots)

|                                | Lowest frequency<br>2402 MHz | Middle frequency<br>2440 MHz | Highest frequency<br>2480 MHz |
|--------------------------------|------------------------------|------------------------------|-------------------------------|
| 20 dB Spectrum bandwidth (kHz) | 1975                         | 1987                         | 1998                          |
| Measurement uncertainty (kHz)  | <±8.33                       |                              |                               |

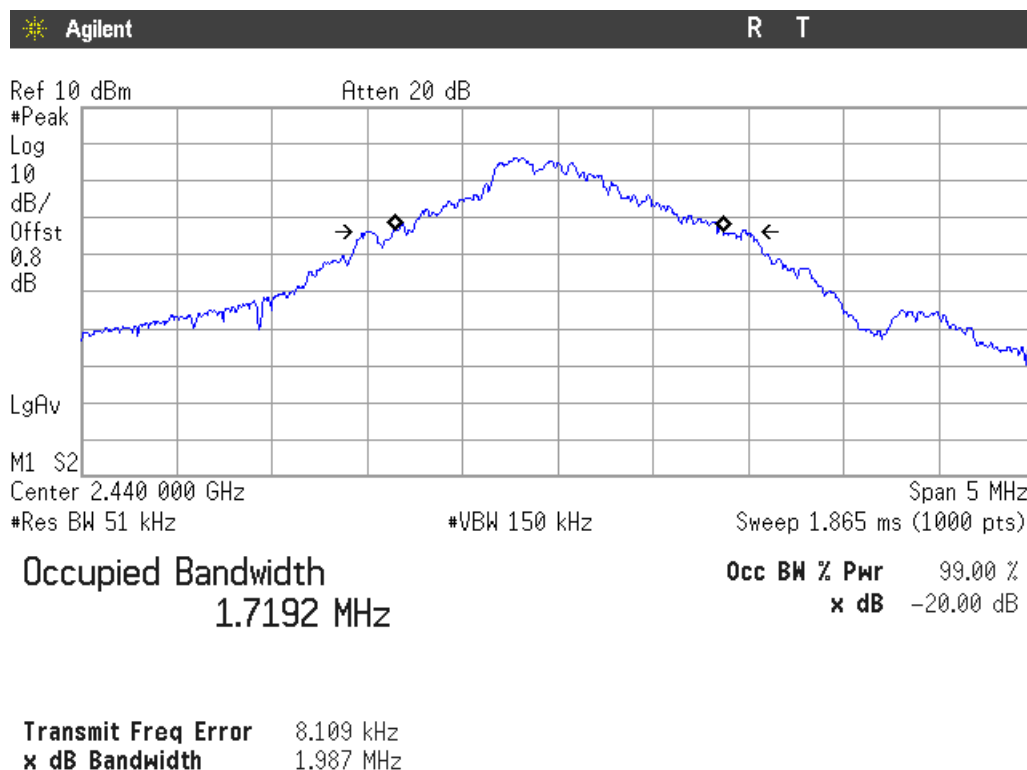
20 dB BANDWIDTH.

Lowest Channel: 2402 MHz.



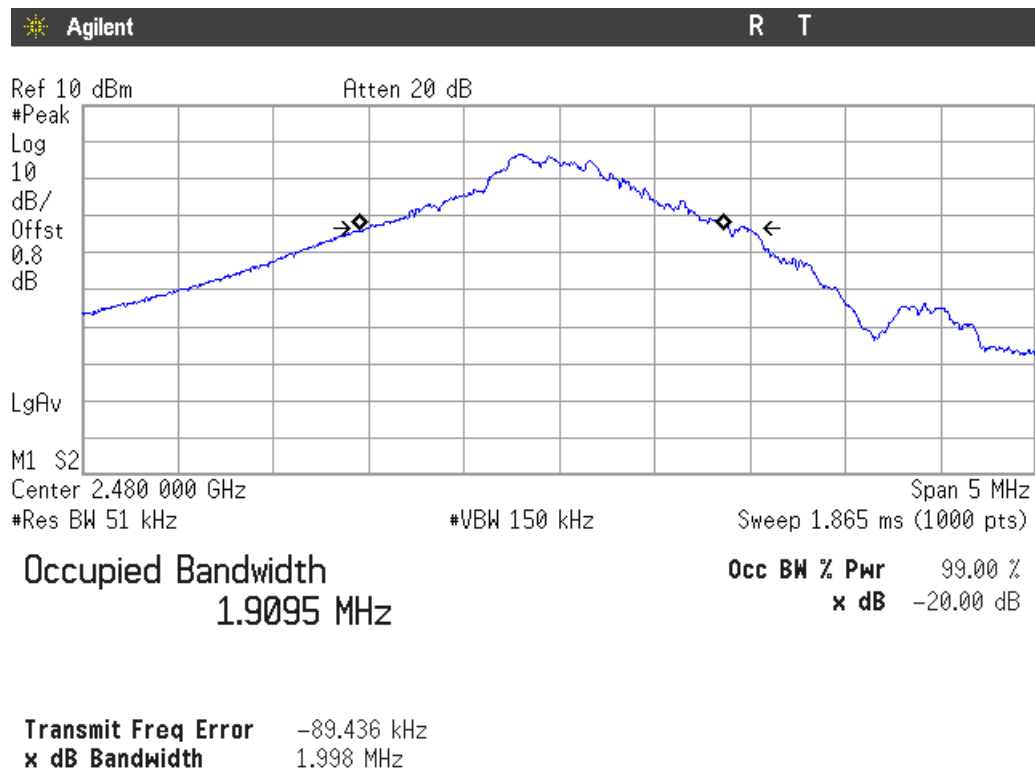
20 dB BANDWIDTH

Middle Channel: 2440 MHz.

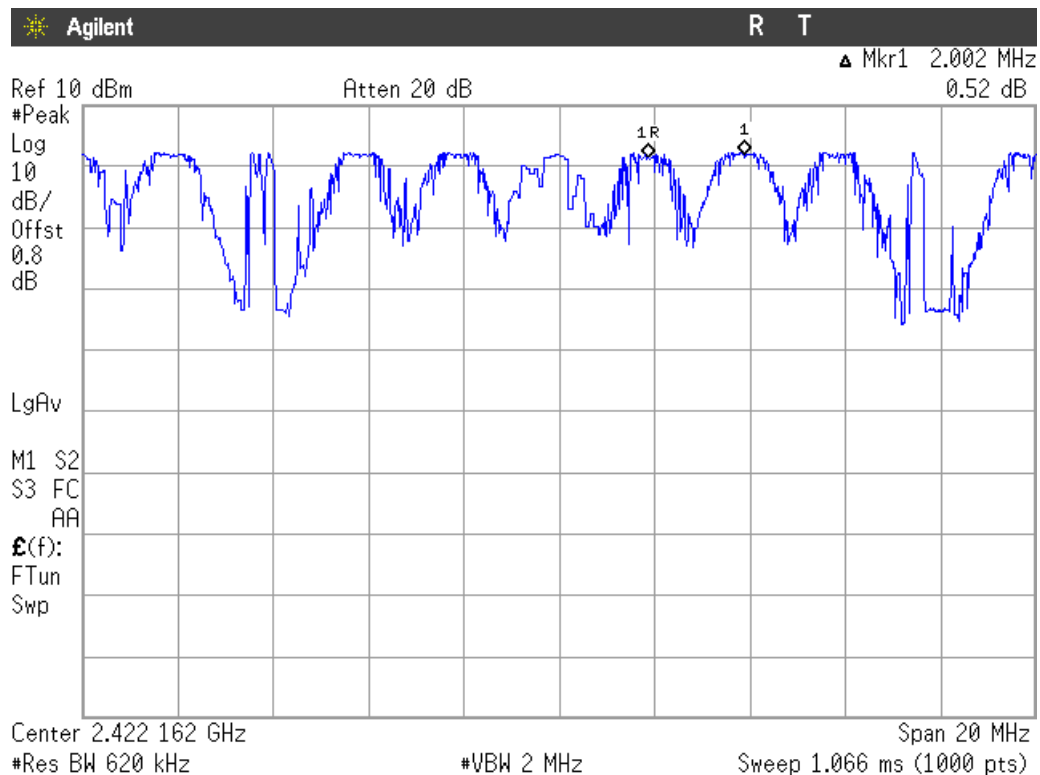


## 20 dB BANDWIDTH

Highest Channel: 2480 MHz.



## Carrier frequency separation



The hopping channel carrier frequencies are separated by a minimum of the 20 dB bandwidth of the hopping channel.

Verdict: PASS

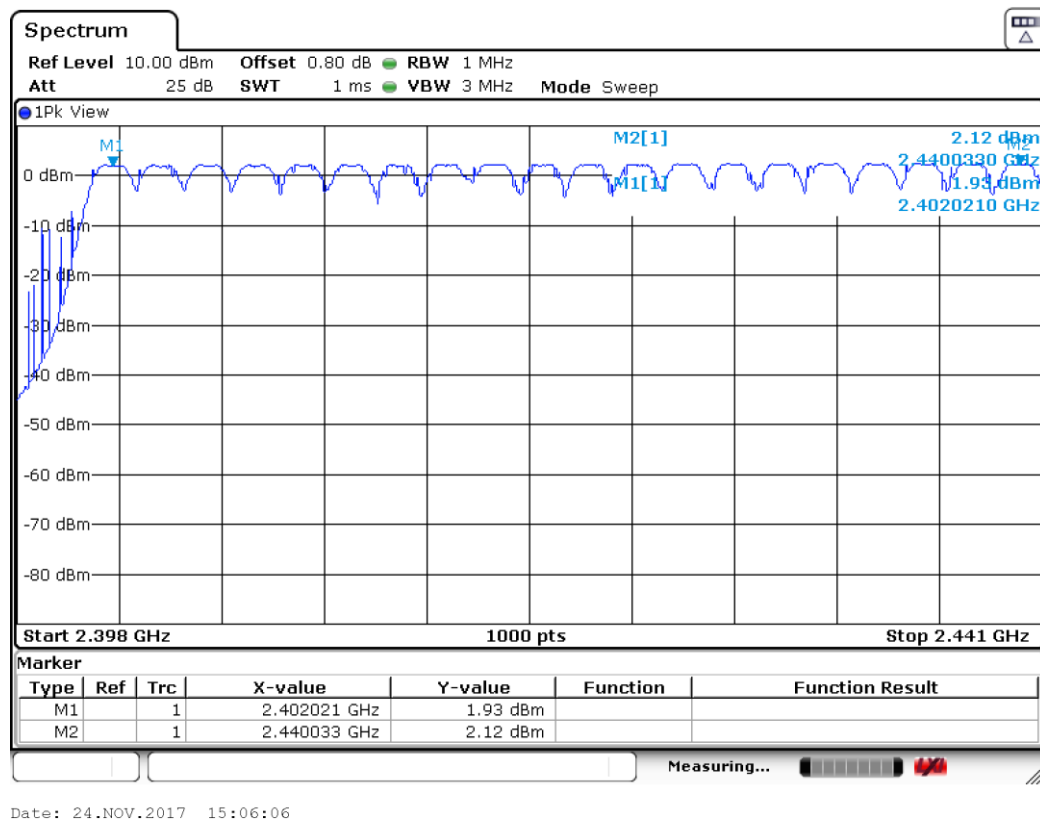
## FCC Section 15.247 Subclause (a)(1)(iii) / RSS-247 Clause 5.1 (d). Number of hopping channels

### SPECIFICATION

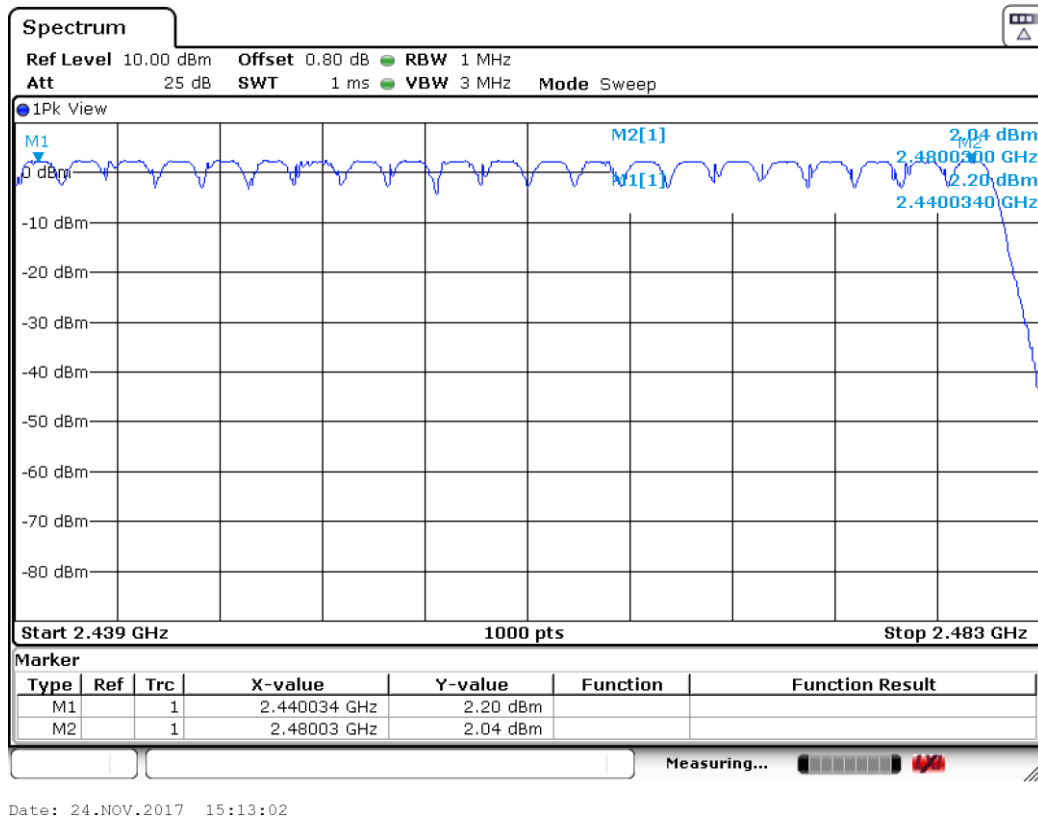
Frequency hopping system in the 2400-2483.5 MHz band shall use at least 15 channels.

### RESULTS

The number of hopping channels is 40. (see next plots).



Number of hopping frequencies: 20



Number of hopping frequencies: 20

Total number of hopping frequencies: 40

Verdict: PASS

## FCC Section 15.247 Subclause (a)(1)(iii) / RSS-247 Clause 5.1 (d). Time of occupancy (Dwell Time)

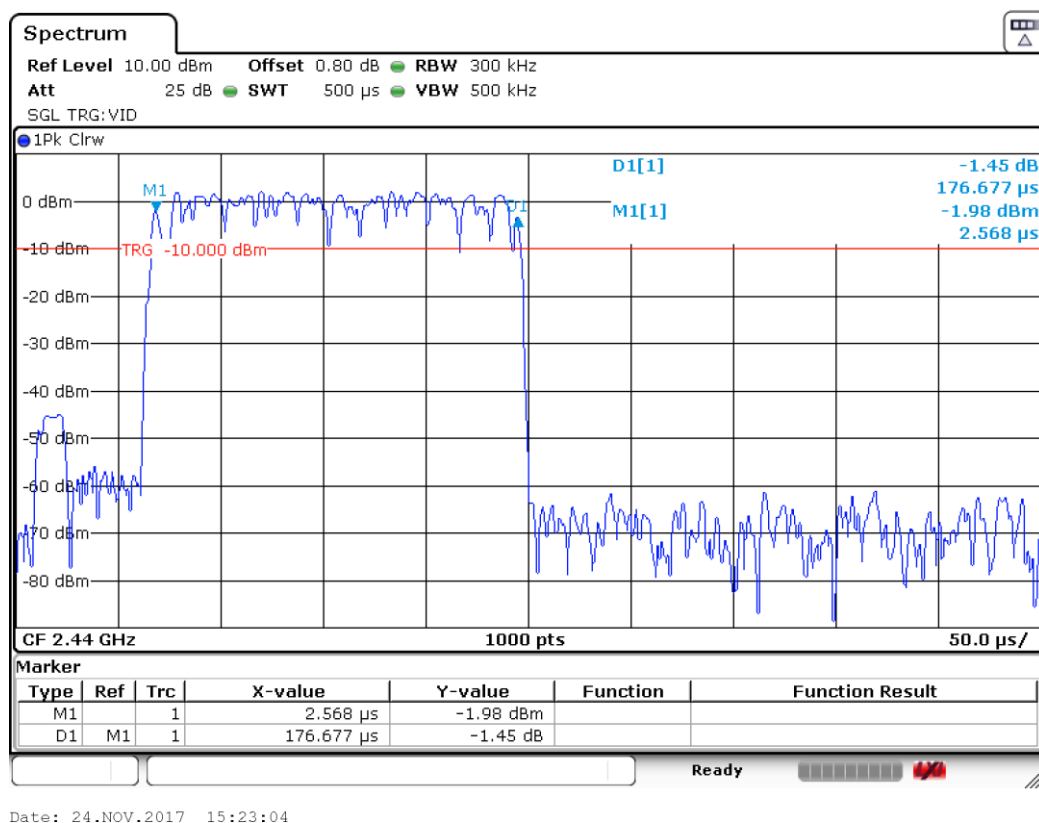
### SPECIFICATION

The average time of occupancy on any channel shall not be greater than 0.4 seconds (400 ms) within a period of 0.4 seconds multiplied by the number of hopping channels employed =  $0.4 \times 40 = 16$  seconds.

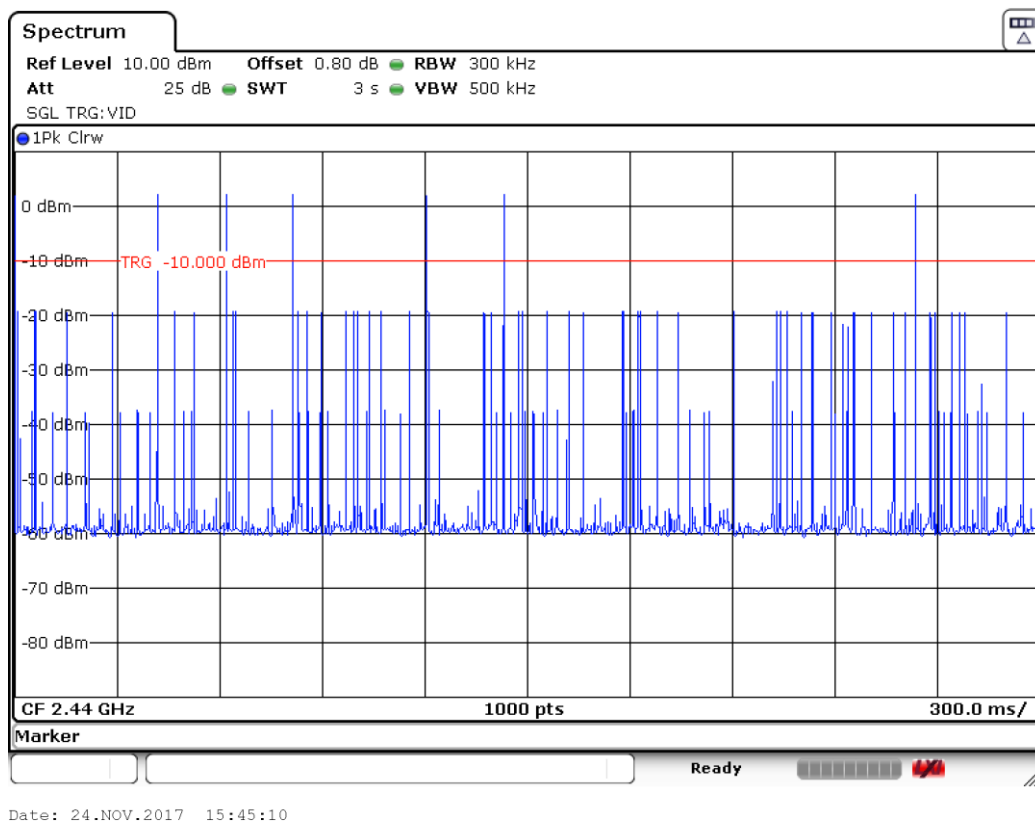
### RESULTS

#### 1. TIME OF OCCUPANCY (DWEELL TIME)

- Tx- time per hop = 176.68  $\mu$ s (see next plot).



-Number of hops over a period of 3 seconds = 6 (see next plot).



Number of hops in the period specified in the requirements = (6 hops) x (16 s / 3 s) = 32 hops.

Averaging time of occupancy = 176.68  $\mu$ s x 32 hops = 5.654 ms per 16 seconds.

|                             |              |
|-----------------------------|--------------|
| Measurement uncertainty (%) | < $\pm$ 0.01 |
|-----------------------------|--------------|

Verdict: PASS

## FCC Section 15.247 Subclause (b) / RSS-247 Clause 5.4 (b). Maximum peak output power and antenna gain

### SPECIFICATION

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels: 1 watt (30 dBm). For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts (20.96 dBm). The e.i.r.p. shall not exceed 0.5 W (RSS-247).

MAXIMUM OUTPUT POWER. See next plots.

Declared Gain for antenna (maximum) = +2 dBi. (Antenna gain)

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

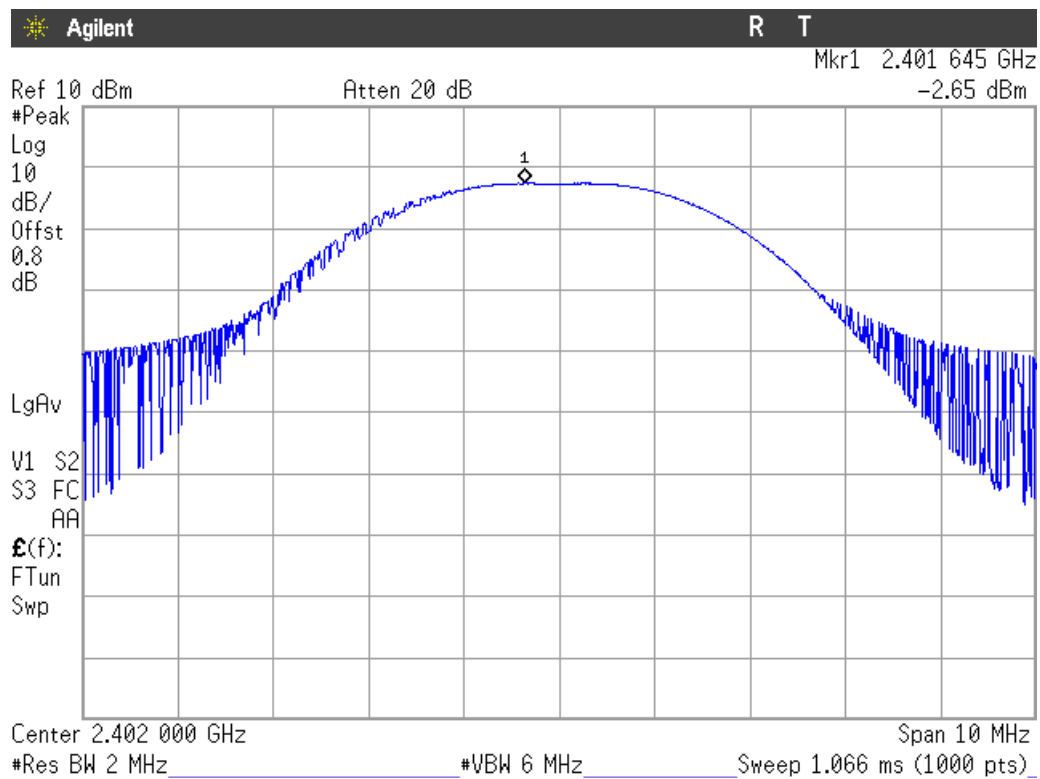
|                              | Lowest frequency<br>2402 MHz | Middle frequency<br>2440 MHz | Highest frequency<br>2480 MHz |
|------------------------------|------------------------------|------------------------------|-------------------------------|
| Maximum peak power (dBm)     | -2.65                        | -2.21                        | -2.09                         |
| Maximum EIRP power (dBm)     | -0.65                        | -0.21                        | -0.09                         |
| 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

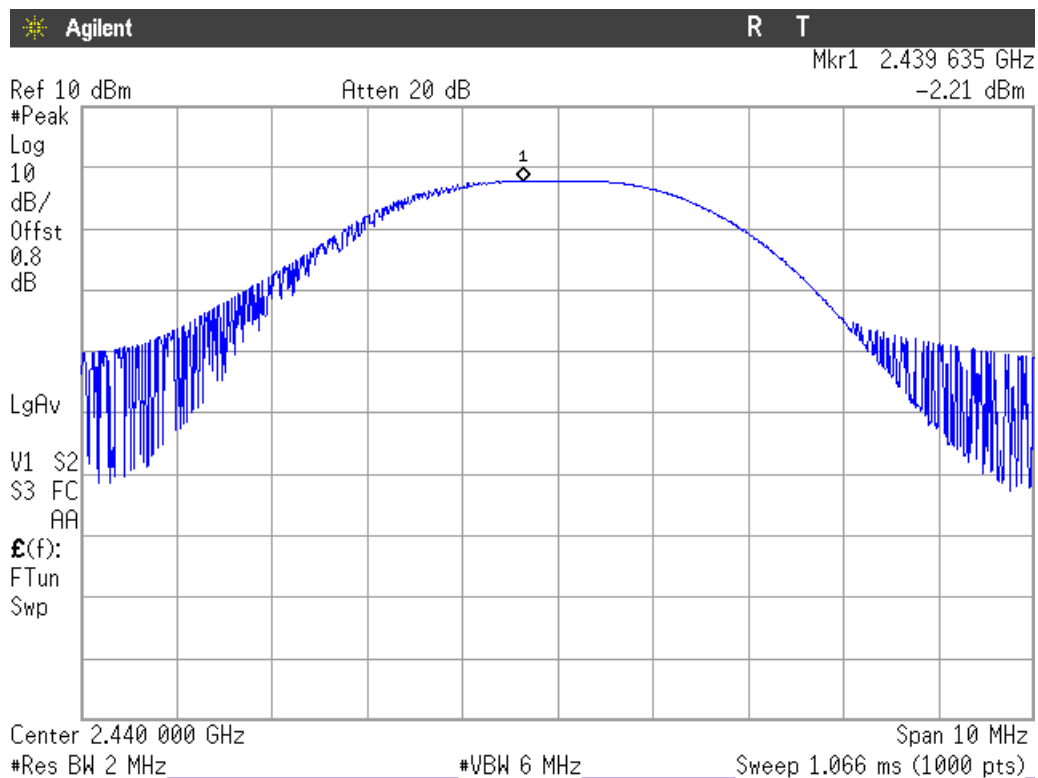
## PEAK OUTPUT POWER (CONDUCTED).

Lowest Channel: 2402 MHz.



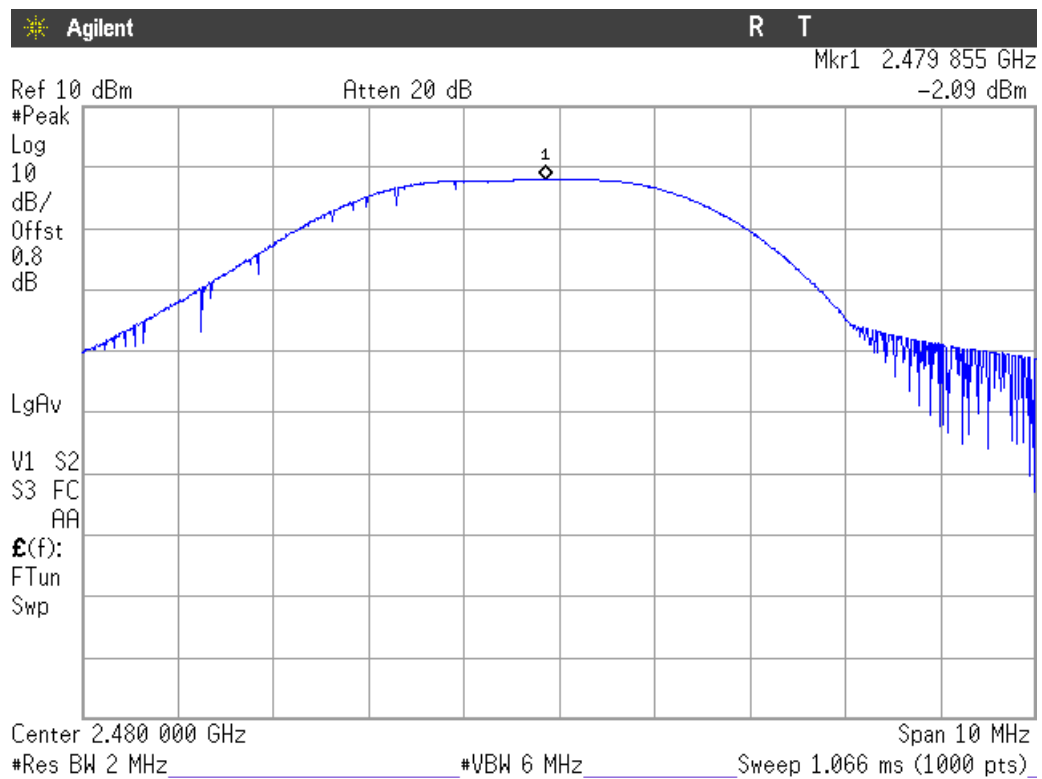
## PEAK OUTPUT POWER (CONDUCTED).

Middle Channel: 2440 MHz.



## PEAK OUTPUT POWER (CONDUCTED).

Highest Channel: 2480 MHz.



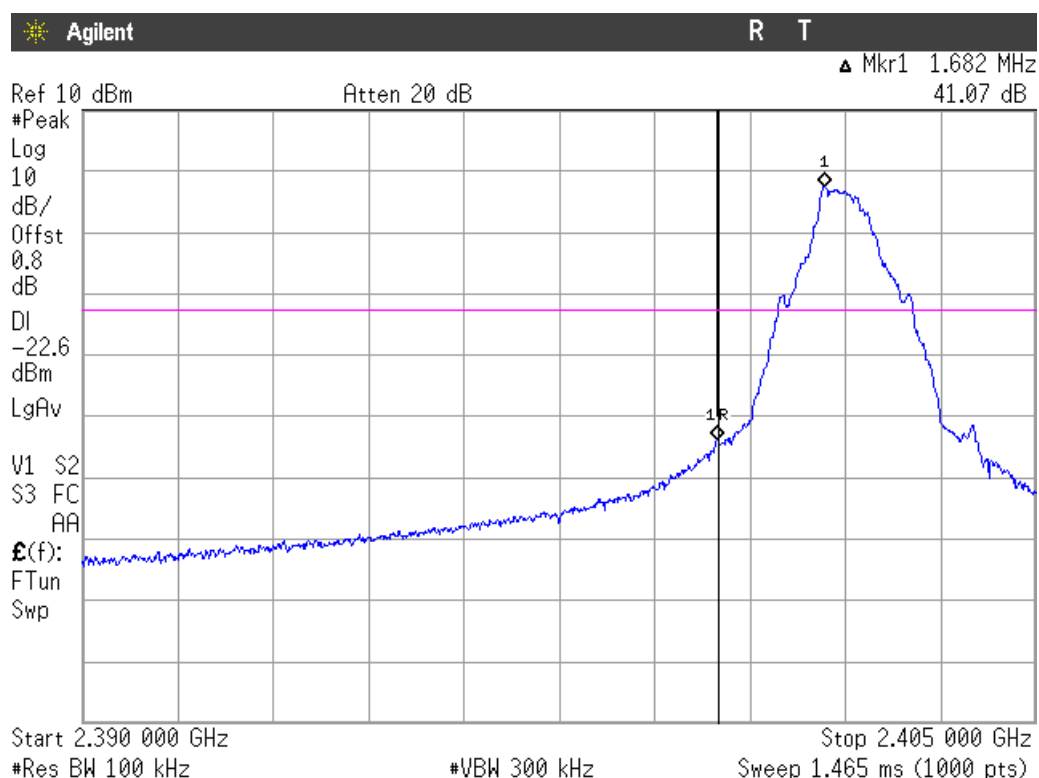
## FCC Section 15.247 Subclause (d) / RSS-247 Clause 5.5. Band-edge compliance of conducted emissions (Transmitter)

### SPECIFICATION

Emissions outside the frequency band in which the intentional radiator is operating shall be at least 20dB below the highest level of the desired power.

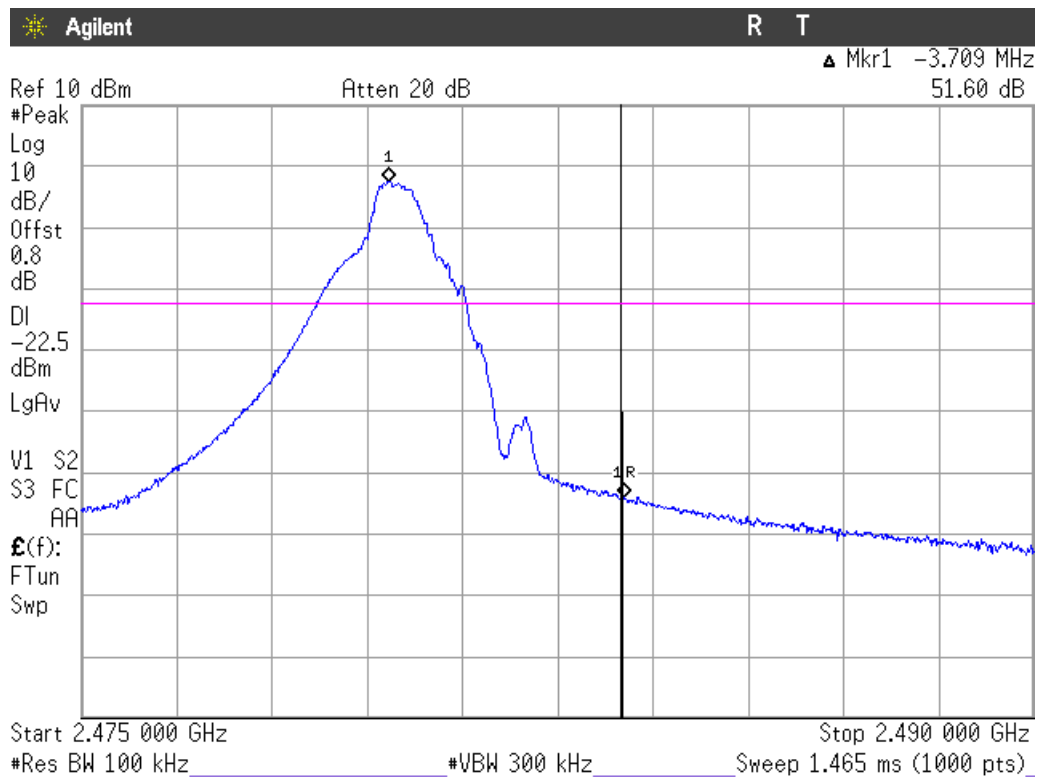
### RESULTS:

1. LOW FREQUENCY SECTION 2402 MHz (HOPPING OFF). See next plot.



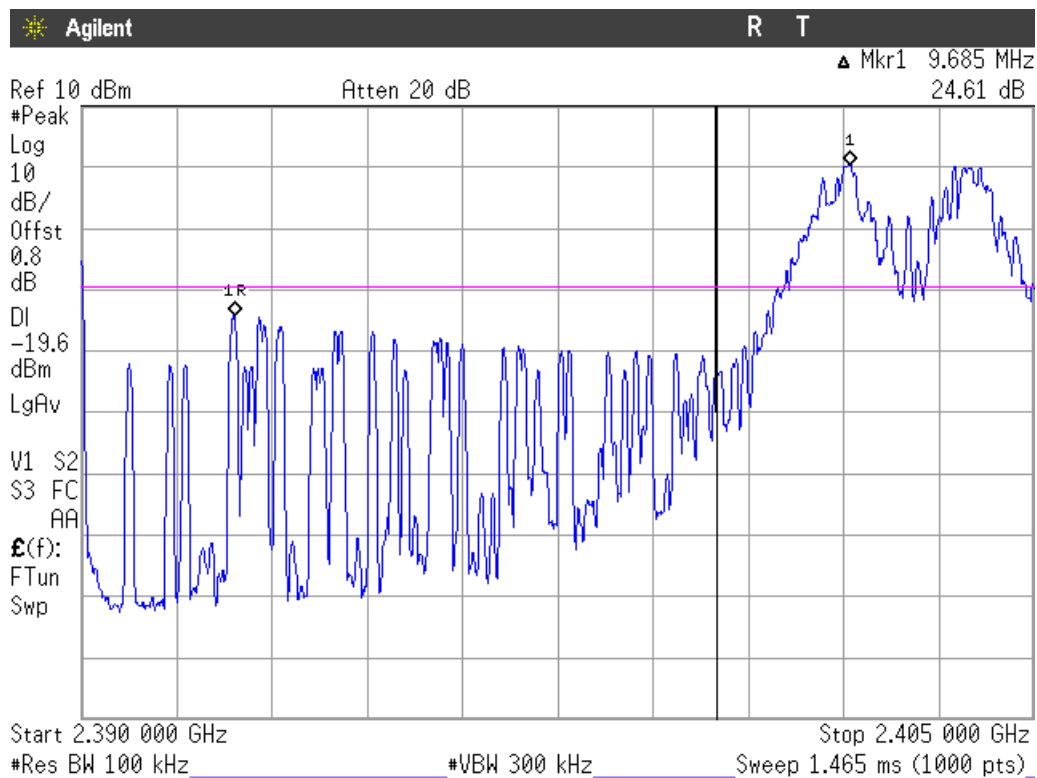
Verdict: PASS

## 2. HIGH FREQUENCY SECTION 2480 MHz (HOPPING OFF). See next plot.



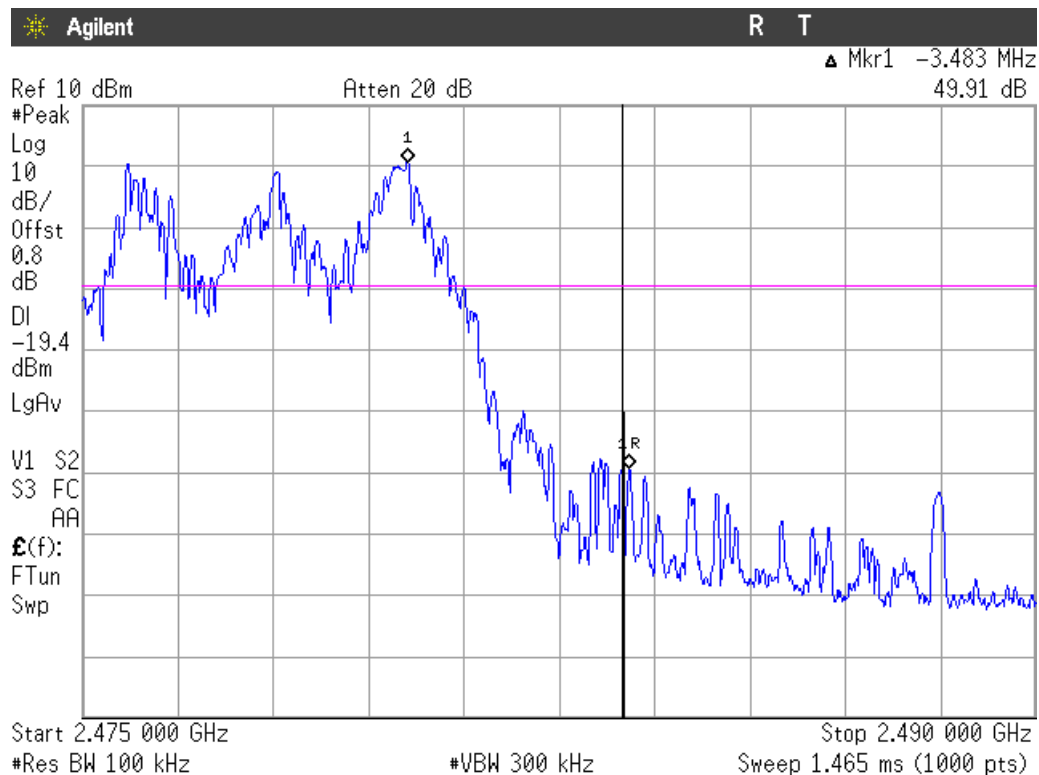
Verdict: PASS

## 3. LOW FREQUENCY SECTION (HOPPING ON). See next plot.



Verdict: PASS

#### 4. HIGH FREQUENCY SECTION (HOPPING ON). See next plot.



Verdict: PASS

|                              |        |
|------------------------------|--------|
| Measurement uncertainty (dB) | <±2.03 |
|------------------------------|--------|

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

### **SPECIFICATION**

In any 100 kHz bandwidths outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

### **RESULTS:**

#### **1. LOW CHANNEL (2402 MHz).**

All peaks are more than 20 dB below the limit.

#### **2.MIDDLE CHANNEL (2440 MHz)**

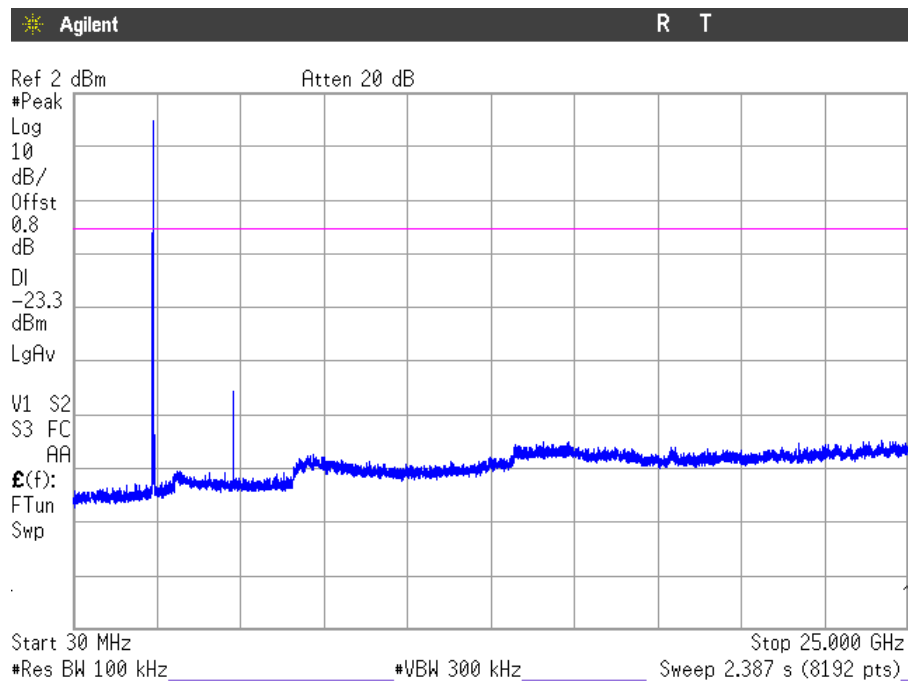
All peaks are more than 20 dB below the limit.

#### **3. HIGH CHANNEL (2480 MHz)**

All peaks are more than 20 dB below the limit.

Verdict: PASS

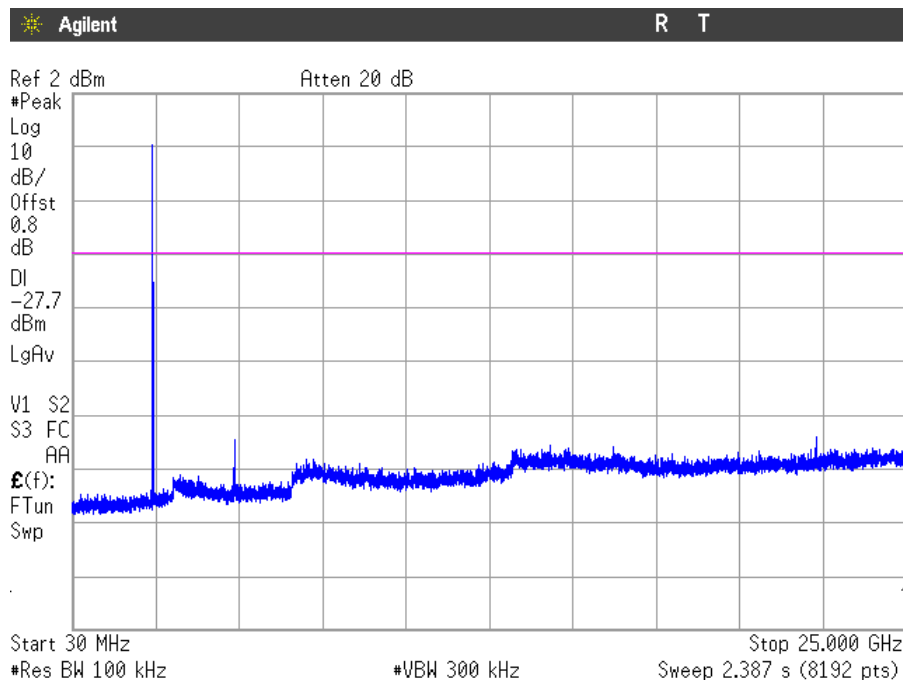
1. LOWEST CHANNEL (2402 MHz): 30 MHz-25 GHz (see next plot).



Note: The peak above the limit is the carrier frequency.

Verdict: PASS

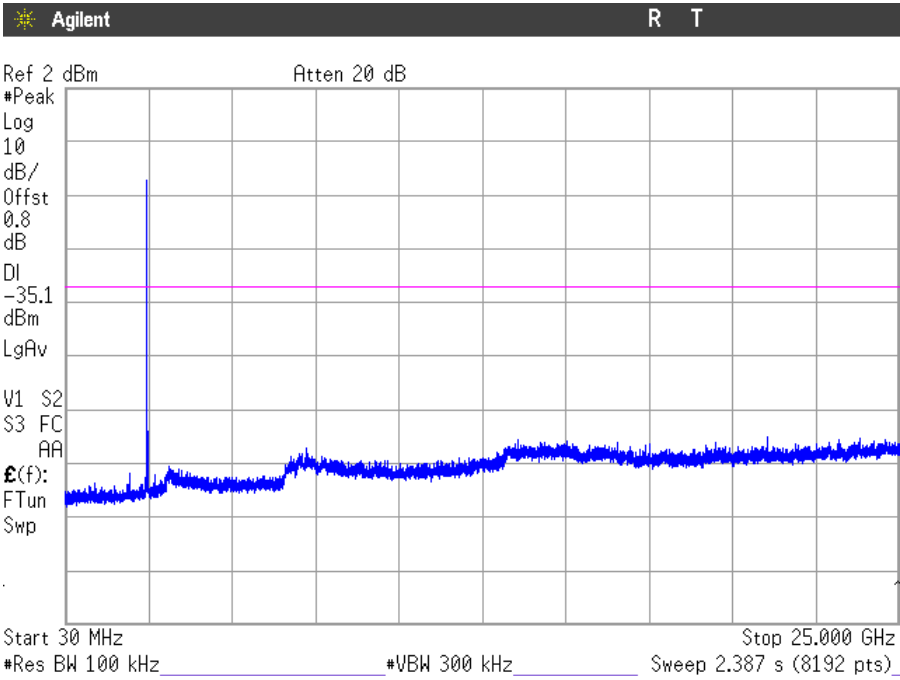
2. MIDDLE CHANNEL (2440 MHz): 30 MHz-25 GHz (see next plot).



Note: The peak above the limits is the carrier frequency.

Verdict: PASS

3. HIGH CHANNEL (2480 MHz): 30 MHz-25 GHz (see next plot).



Note: The peak above the limits is the carrier frequency.

Verdict: PASS

|                              |        |
|------------------------------|--------|
| Measurement uncertainty (dB) | <±2.03 |
|------------------------------|--------|

## FCC Section 15.247 Subclause (d) / RSS-247 Clause 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 ( $\mu\text{V/m}$ ) | Field strength ( $\text{dB}\mu\text{V/m}$ ) | 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.

Note: The spurious emissions below 1 GHz do not depend on either the operating channel in the EUT.

Spurious levels operating (radiated) closest to limit.

| Spurious frequency (MHz) | Polarization | Detector   | Emission Level (dB $\mu$ V/m) | Measurement Uncertainty (dB) |
|--------------------------|--------------|------------|-------------------------------|------------------------------|
| 144.217                  | V            | Quasi-Peak | 21.95                         | $\pm 3.88$                   |
| 151.250                  | V            | Quasi-Peak | 20.15                         | $\pm 3.88$                   |

### 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).

#### 1. CHANNEL: LOWEST (2402 MHz).

| Spurious frequency (GHz) | Polarization | Detector | Emission Level (dB $\mu$ V/m) | Measurement Uncertainty (dB) |
|--------------------------|--------------|----------|-------------------------------|------------------------------|
| 2.38922                  | V            | Peak     | 51.48                         | $\pm 4.87$                   |

#### 2. CHANNEL: MIDDLE (2440 MHz).

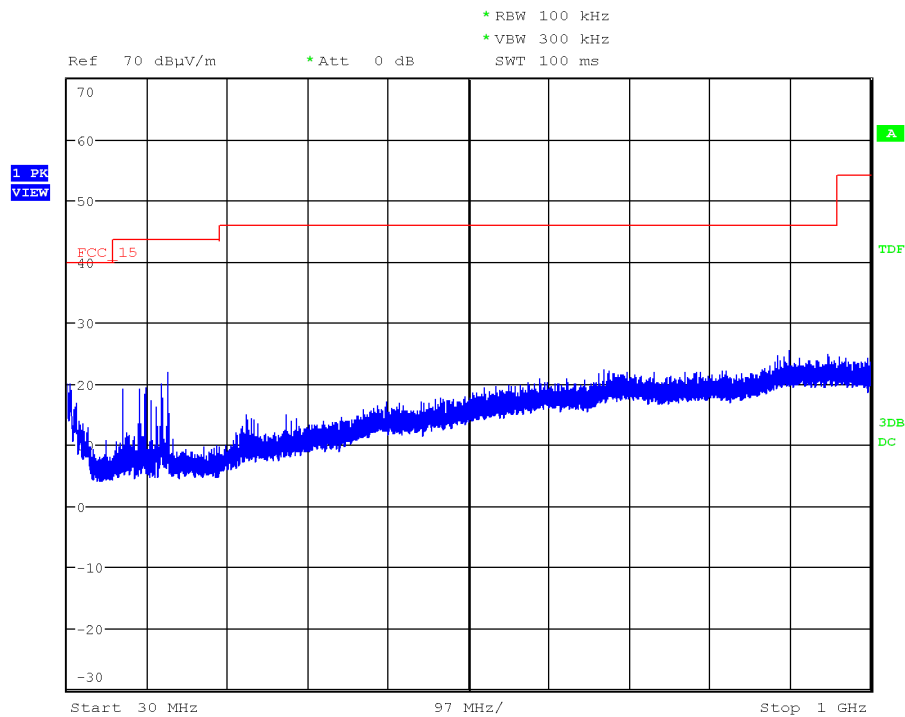
| Spurious frequency (GHz) | Polarization | Detector | Emission Level (dB $\mu$ V/m) | Measurement Uncertainty (dB) |
|--------------------------|--------------|----------|-------------------------------|------------------------------|
| 4.87975                  | V            | Peak     | 39.11                         | $\pm 4.87$                   |

#### 3. CHANNEL: HIGHEST (2480 MHz).

| Spurious frequency (GHz) | Polarization | Detector | Emission Level (dB $\mu$ V/m) | Measurement Uncertainty (dB) |
|--------------------------|--------------|----------|-------------------------------|------------------------------|
| 2.48362                  | V            | Peak     | 60.43                         | $\pm 4.87$                   |
|                          |              | Average  | 39.13                         | $\pm 4.87$                   |
| 4.95975                  | V            | Peak     | 39.67                         | $\pm 4.87$                   |

Verdict: PASS

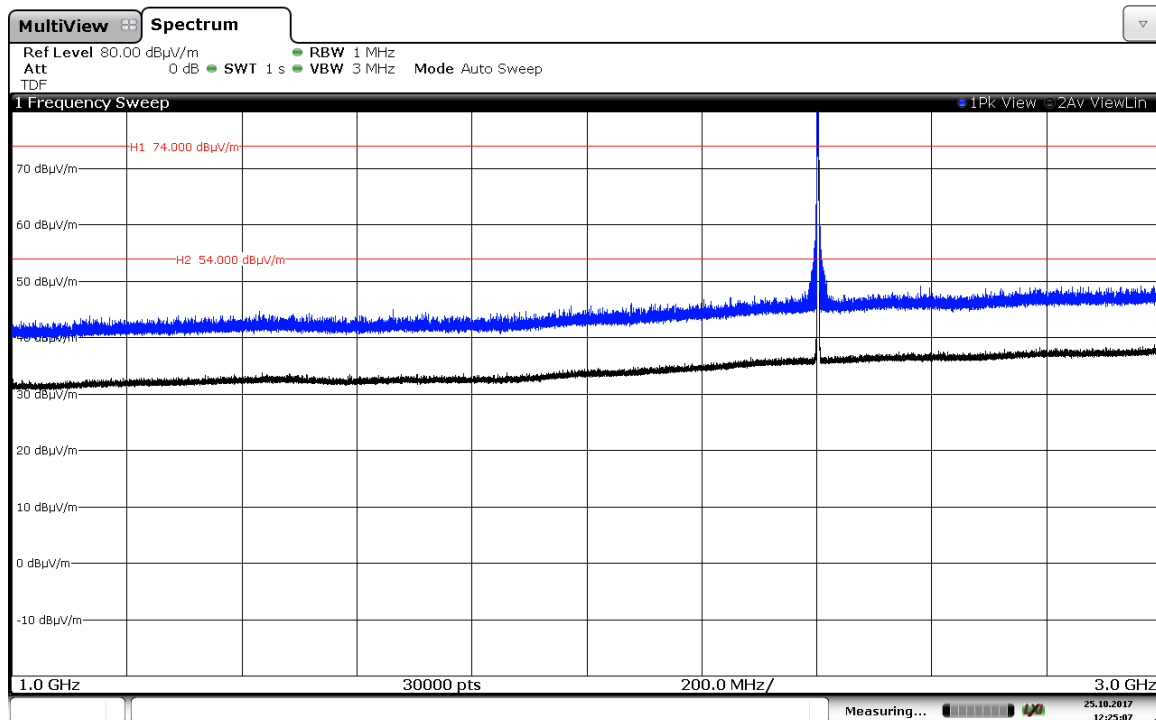
## FREQUENCY RANGE 30 MHz-1000 MHz.



(This plot is valid for all three channels).

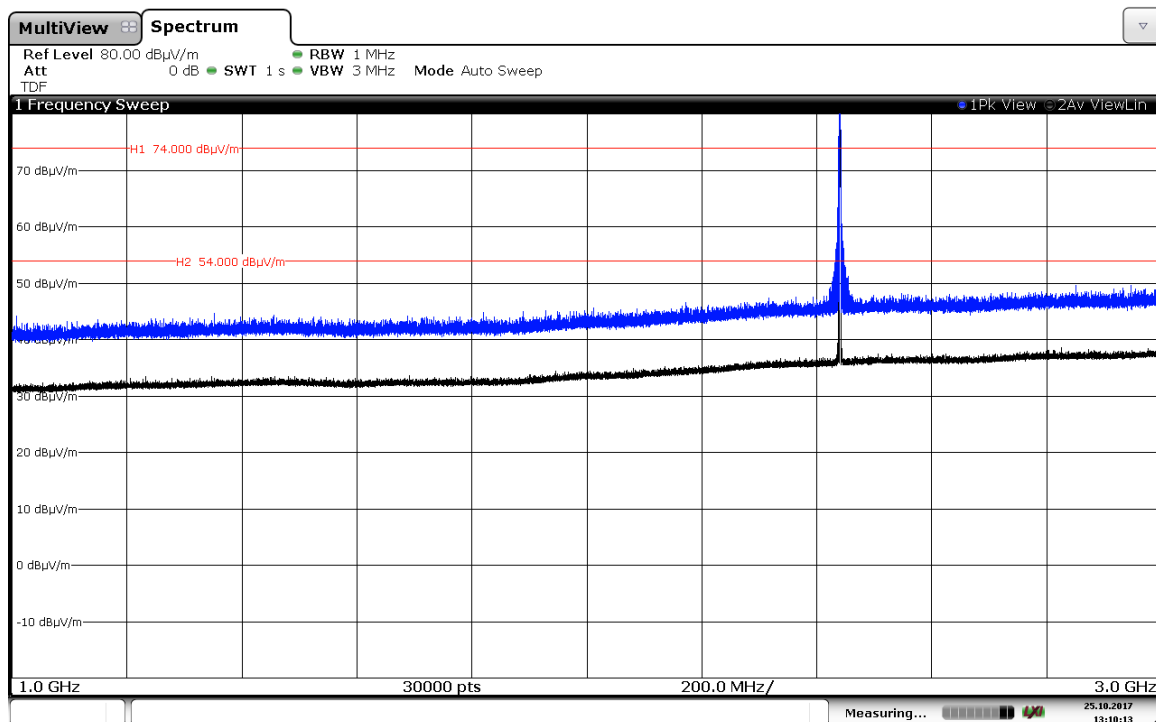
## FREQUENCY RANGE 1 GHz to 3 GHz.

CHANNEL: Lowest (2402 MHz).



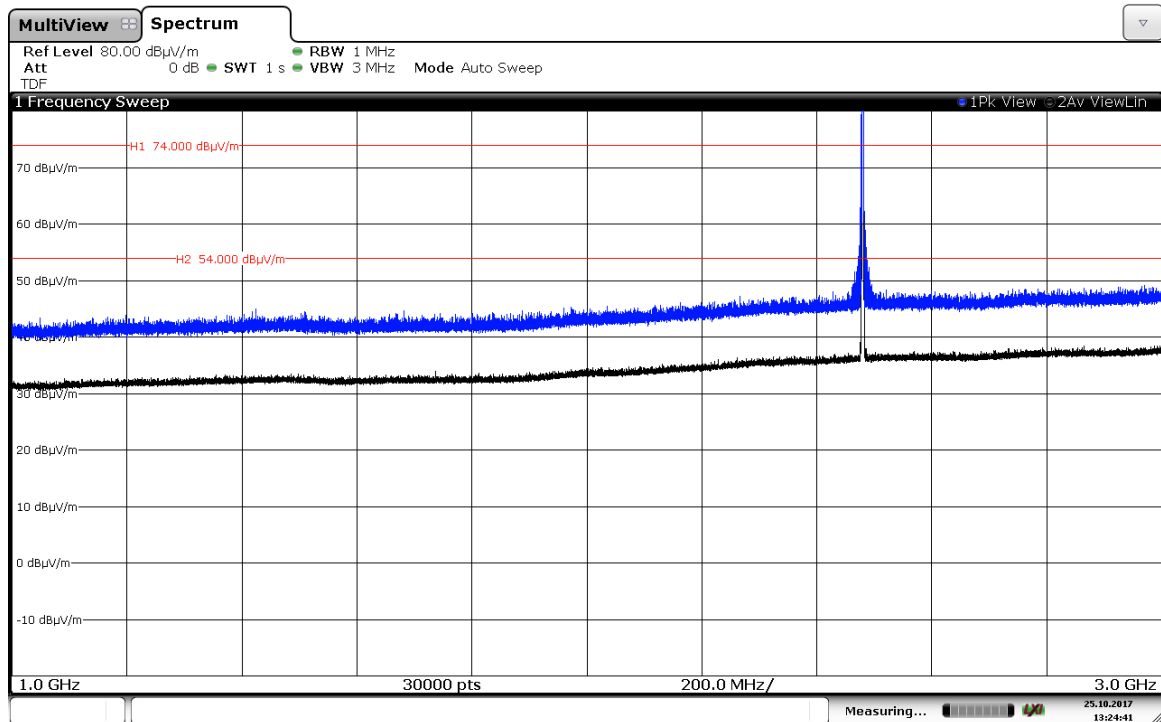
Note: The peak shown in the plot above the limits is the carrier frequency.

CHANNEL: Middle (2440 MHz).



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

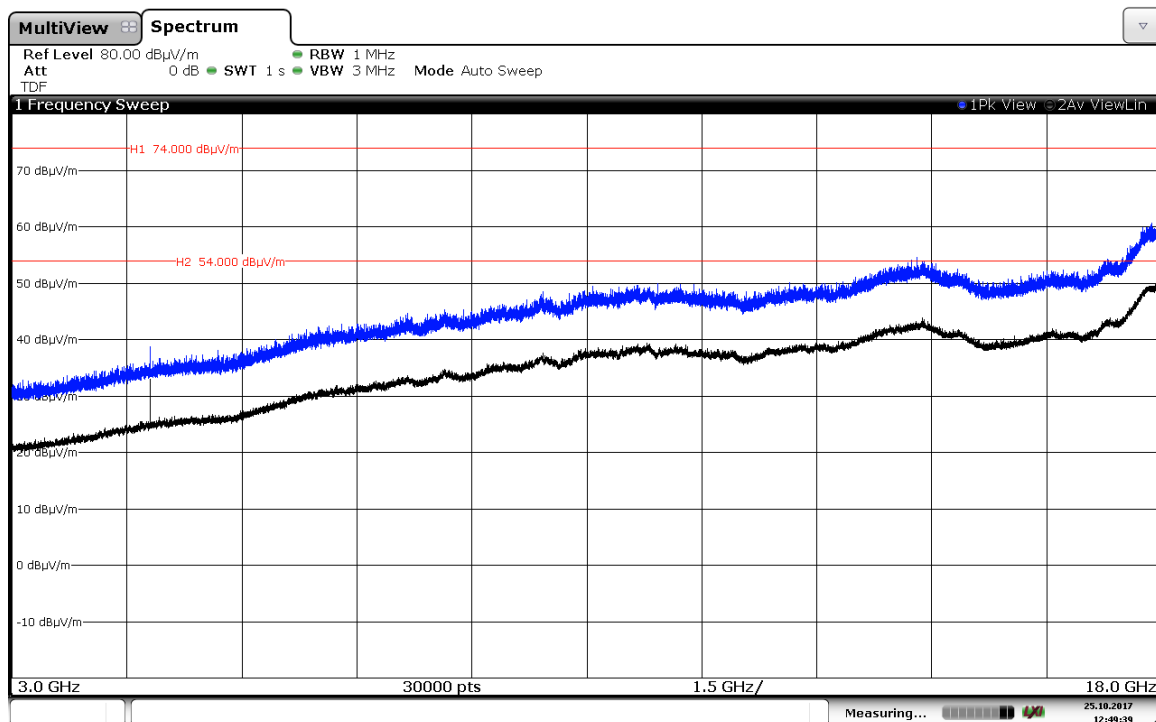
CHANNEL: Highest (2480 MHz).



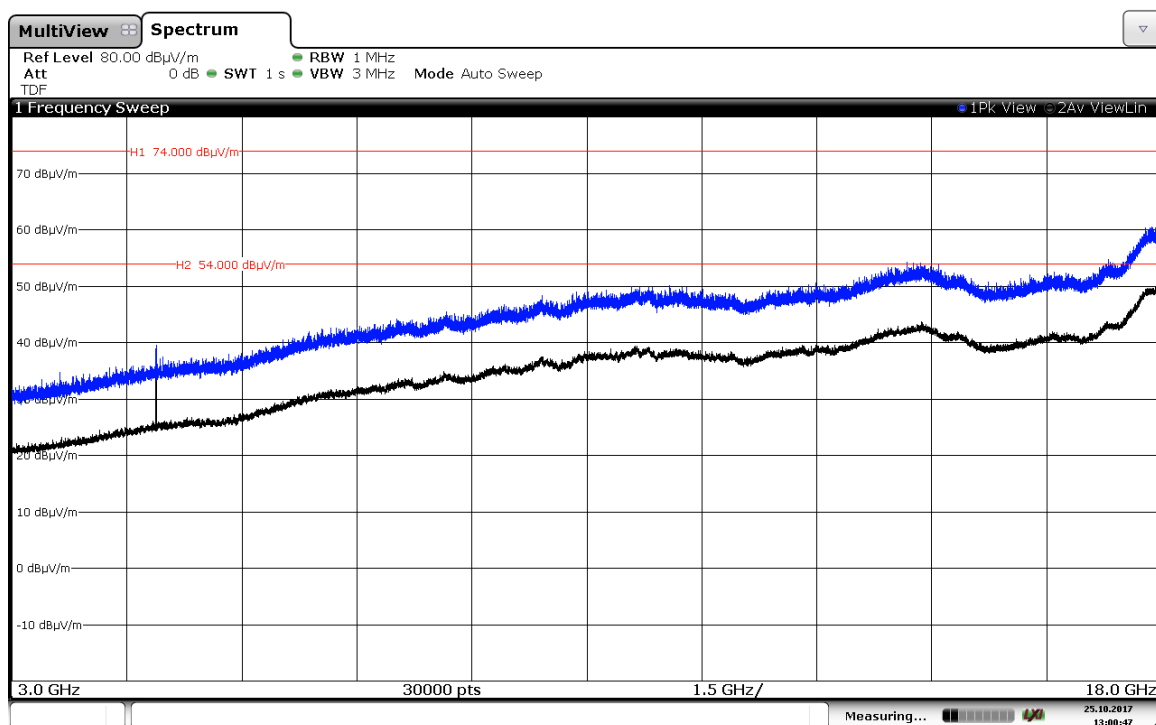
Note: The peak shown in the plot above the limits is the carrier frequency.

## FREQUENCY RANGE 3 GHz to 18 GHz.

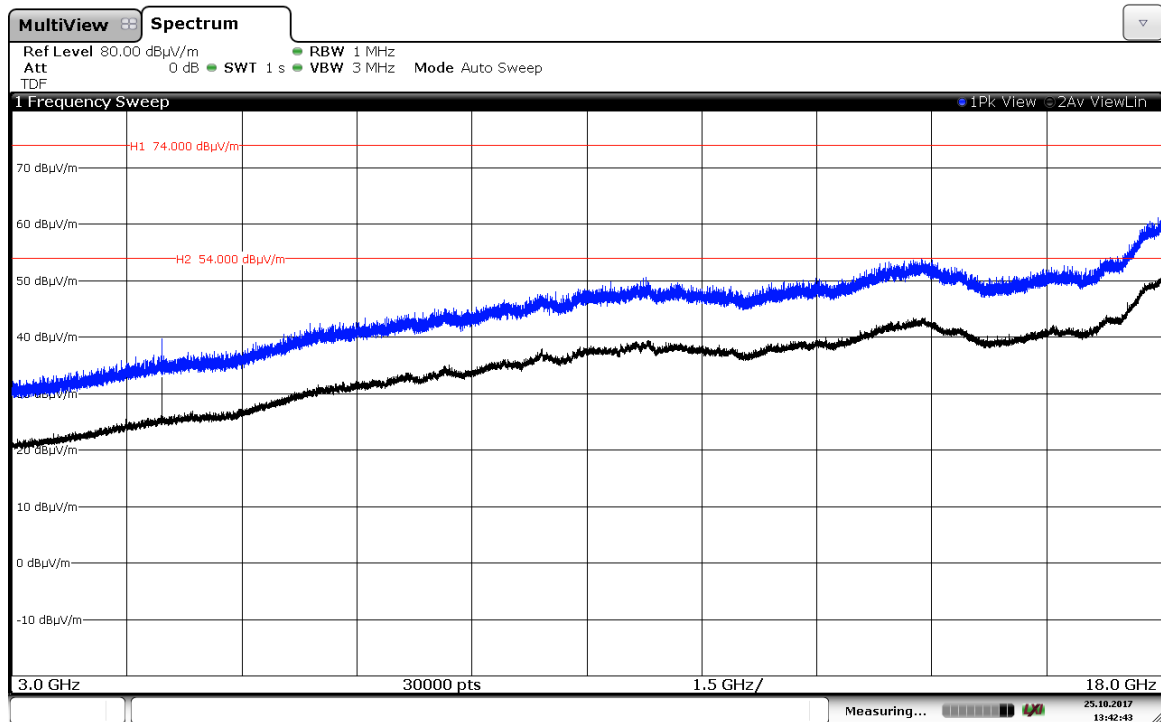
CHANNEL: Lowest (2402 MHz).



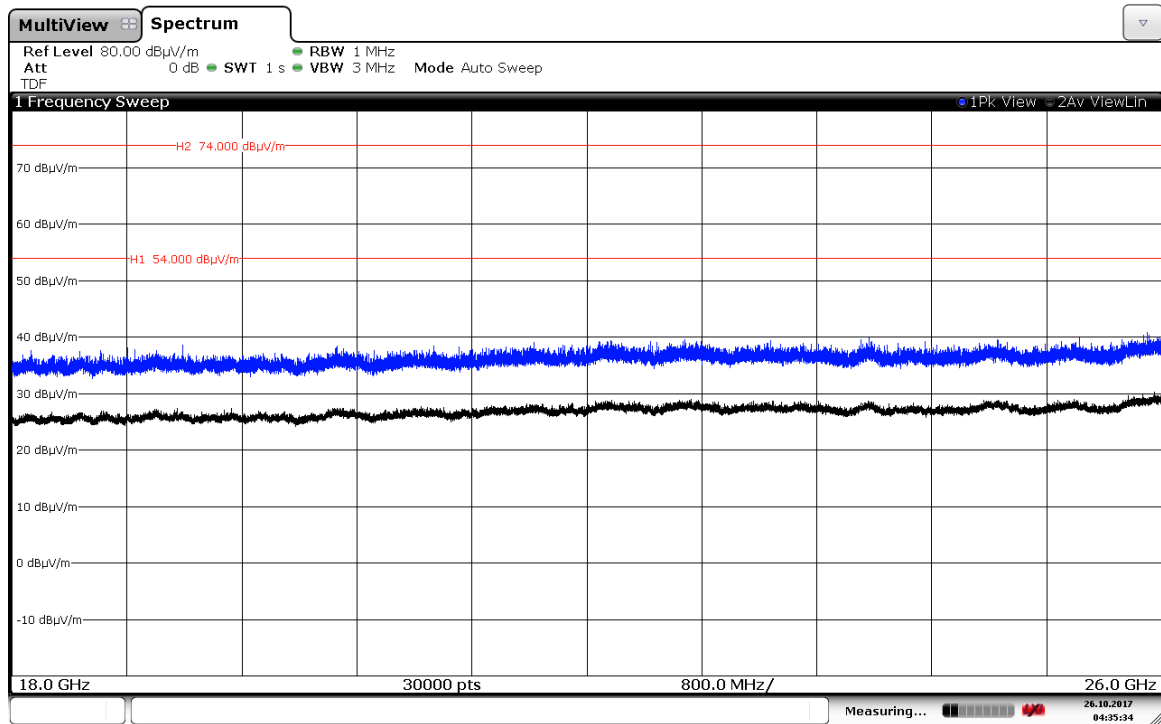
CHANNEL: Middle (2440 MHz).



CHANNEL: Highest (2480 MHz).



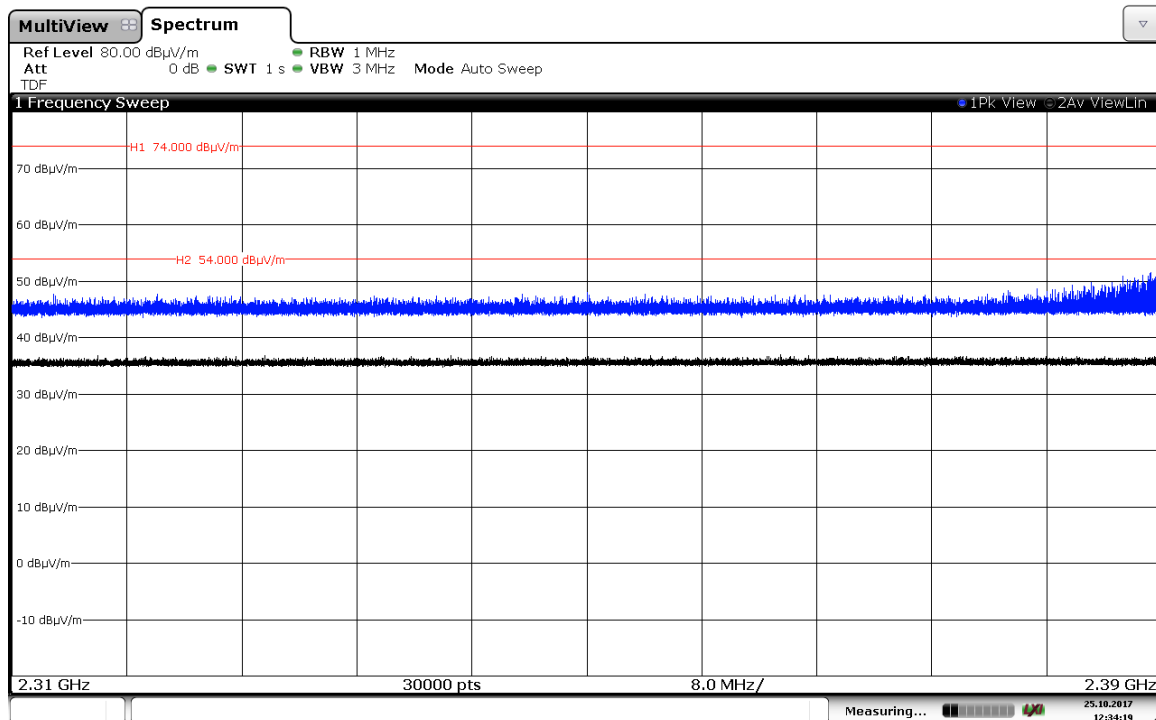
## FREQUENCY RANGE 18 GHz to 26 GHz.



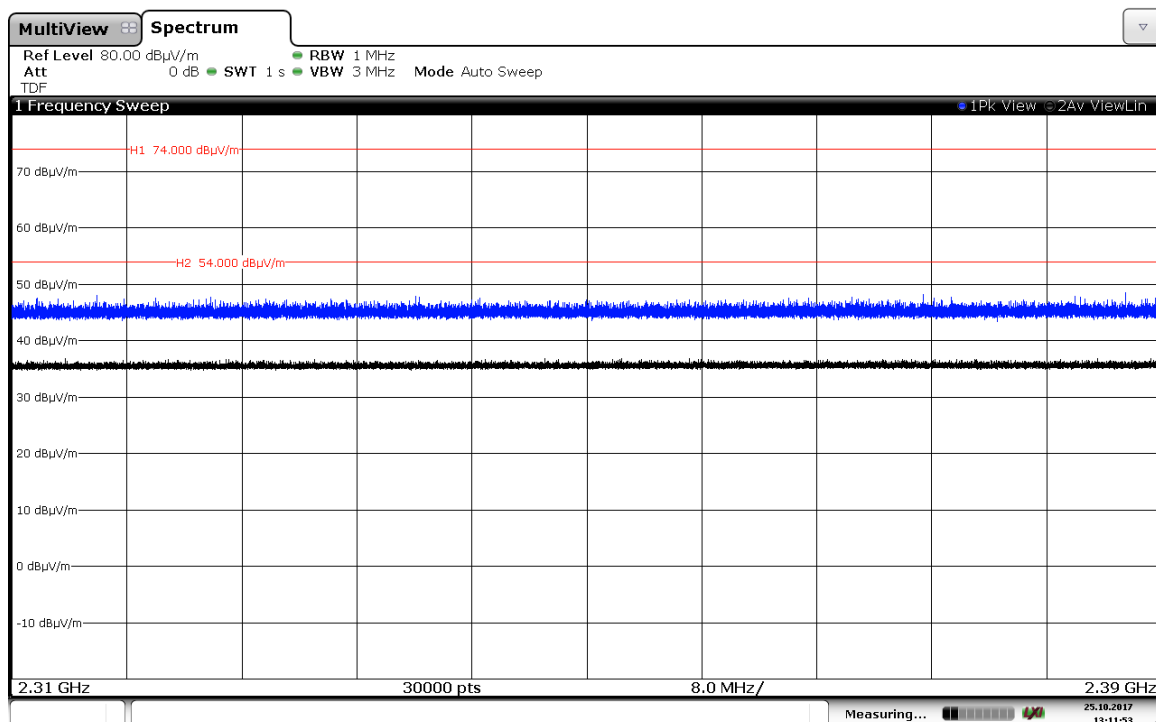
(This plot is valid for all three channels).

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

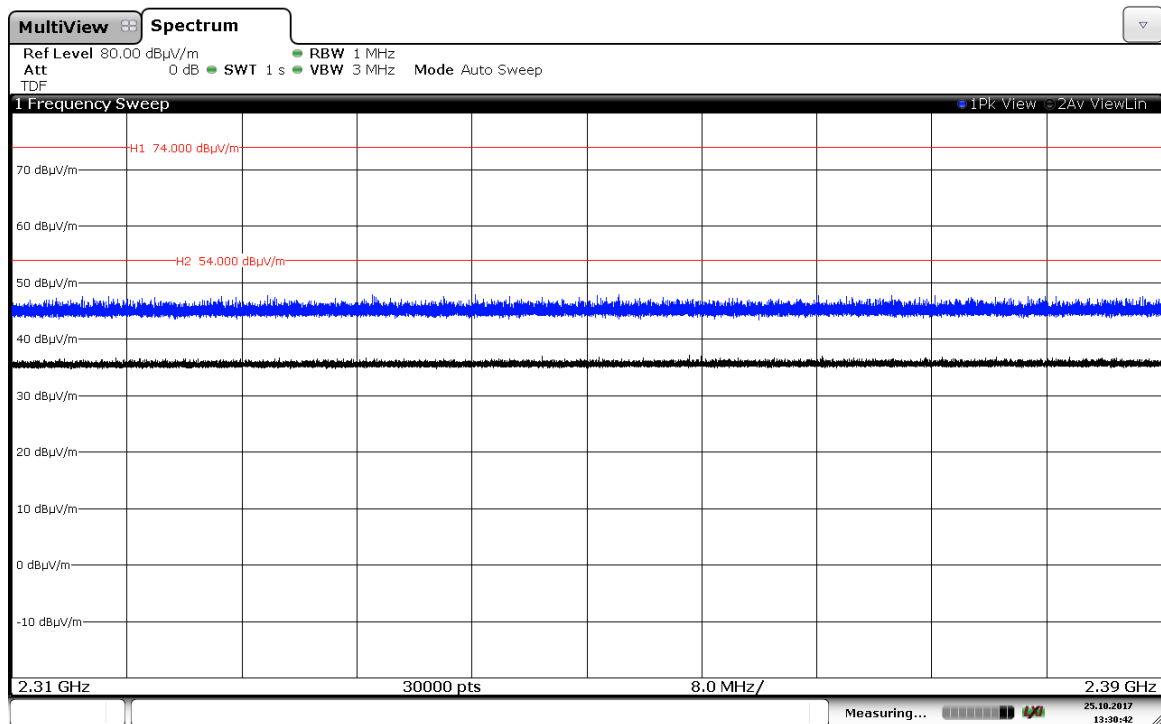
CHANNEL: Lowest



CHANNEL: Middle

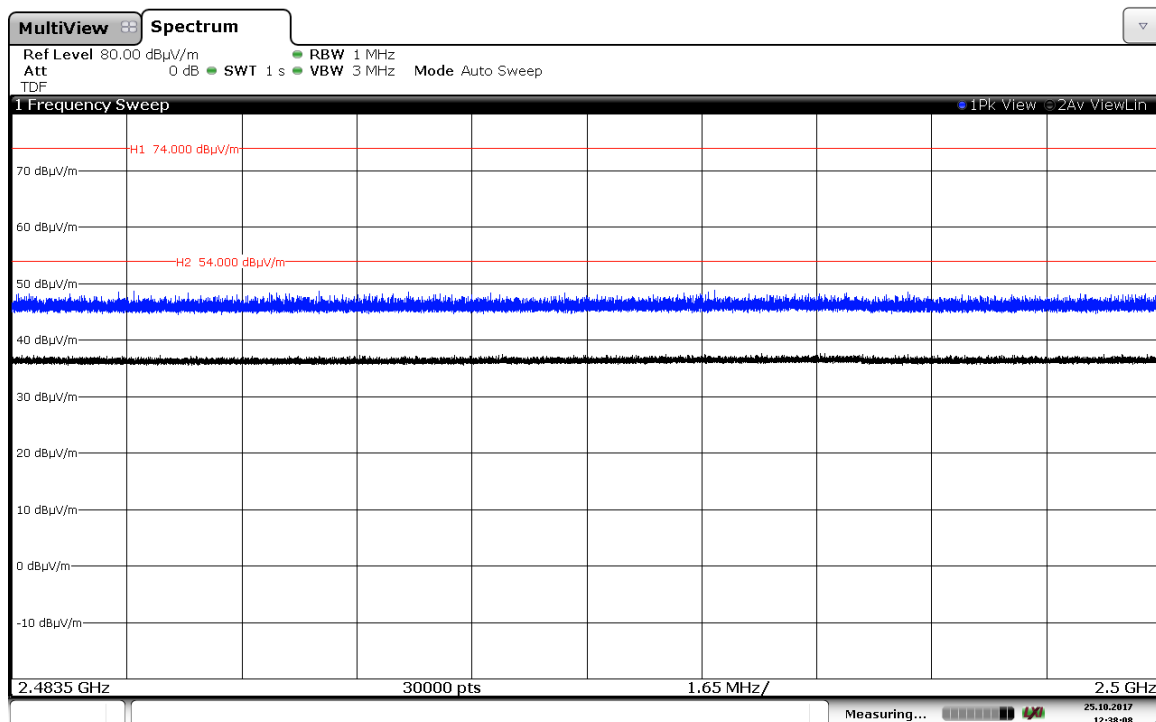


CHANNEL: Highest

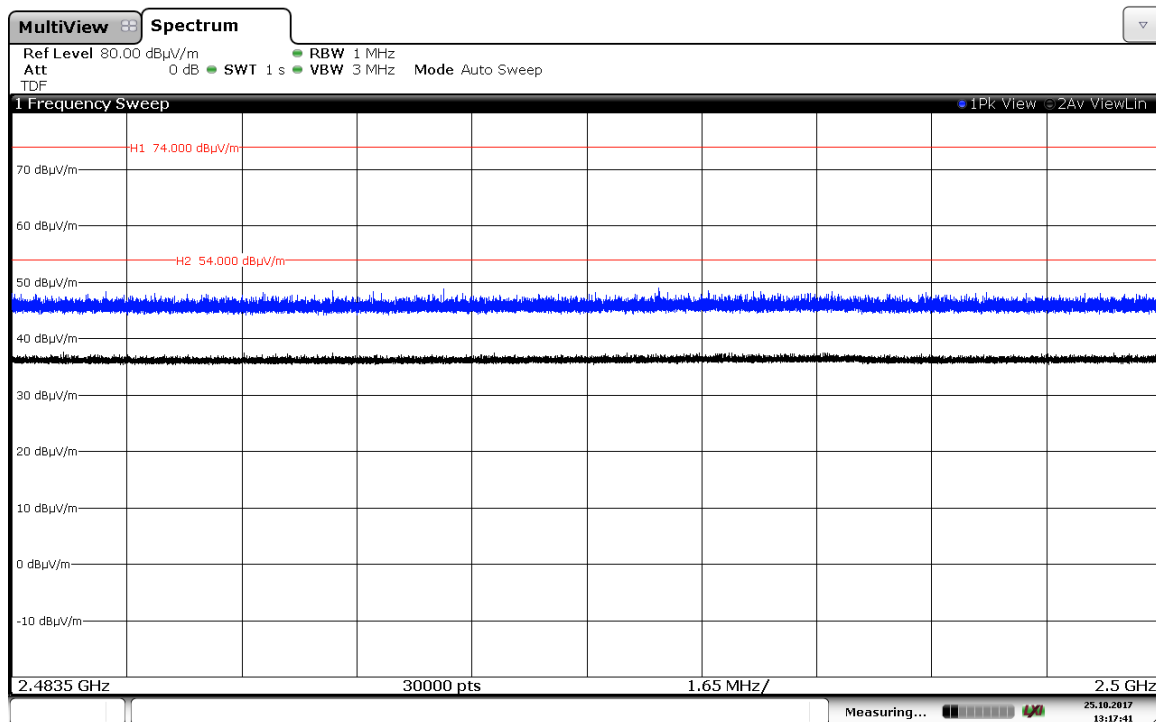


## FREQUENCY RANGE 2.4835 GHz to 2.5 GHz. (RESTRICTED BAND)

CHANNEL: Lowest



CHANNEL: Middle



CHANNEL: Highest

