

Test report No:  
NIE: 69207RRF.003

## 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.

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.

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (*) Identification of item tested         | Left soccer shin guard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| (*) Trademark                             | Humanox Soccer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| (*) Model and /or type reference          | HUOX 50 Soccer shin guard (Left)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Other identification of the product       | HW version: 2.0<br>SW version: 29<br>FCC ID: 2A292-HUX5L25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| (*) Features                              | Bluetooth LE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Applicant                                 | Humanox Soccer, S.A.<br>Lugar de la Oropéndola, Calle "D", 1, - C.P. 11500 –<br>El Puerto de Santa María (Cádiz), Spain.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test method requested, standard           | USA FCC Part 15.247 (10-1-20) Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz.<br>USA FCC Part 15.209 (10-1-20) Edition: Radiated emission limits; general requirements.<br>Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid Systems Devices Operating Under Section 15.247 of the FCC Rules. 558074 D01 Meas Guidance v05r02 dated April 2, 2019.<br>ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices. |
| Summary                                   | IN COMPLIANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Approved by (name / position & signature) | Rafael López<br>Consumer EMC & RF Lab. Manager  2021.11.30 13:15:50 +01'00'                                                                                                                                                                                                                                                                                                                                                                                                         |
| Date of issue                             | 2021-11-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Report template No                        | FDT08_23<br>(*) "Data provided by the client"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Index

Competences and guarantees .....3

General conditions .....3

Uncertainty .....3

Data provided by the client.....3

Usage of samples .....4

Test sample description .....5

Identification of the client.....6

Testing period and place.....6

Document history .....6

Environmental conditions .....6

Remarks and comments .....7

Testing verdicts.....8

Summary .....8

Appendix A: Test results. Bluetooth Low Energy.....9

## Competences and guarantees

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DEKRA Testing and Certification S.A.U. 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 FCC-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

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

DEKRA Testing and Certification S.A.U. 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 S.A.U. at the time of performance of the test.

DEKRA Testing and Certification S.A.U. 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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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 DEKRA Testing and Certification S.A.U.
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## Uncertainty

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

## Data provided by the client

---

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample of the model HUOX 50 Soccer shin guard (Left) is a Soccer shin guard with IoT technology

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of result.

## Usage of samples

---

Samples under 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 |
|------------|-------------------|----------------------------------|-----------|-------------------|
| 69207B/007 | Soccer shin guard | HUOX 50 Soccer shin guard (Left) | ---       | 2021/10/13        |

Sample S/01 has undergone the following test(s): Radiated tests indicated in the Appendix A.

- Sample S/02 is composed of the following elements:

| Control N° | Description       | Model                            | Serial N° | Date of reception |
|------------|-------------------|----------------------------------|-----------|-------------------|
| 69207B/016 | Soccer shin guard | HUOX 50 Soccer shin guard (Left) | ---       | 2021/11/26        |

Sample S/02 has undergone the following test(s): Conducted tests indicated in the Appendix A.

## Test sample description

|                                               |                                     |                                        |                          |                          |                                   |                          |                          |
|-----------------------------------------------|-------------------------------------|----------------------------------------|--------------------------|--------------------------|-----------------------------------|--------------------------|--------------------------|
| Ports..... :                                  | Port name and description           | Cable                                  |                          |                          |                                   |                          |                          |
|                                               |                                     | Specified max length [m]               | Attached during test     | Shielded                 | Coupled to patient <sup>(3)</sup> |                          |                          |
|                                               |                                     |                                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          |                          |                          |
| Supplementary information to the ports..... : | N/A                                 |                                        |                          |                          |                                   |                          |                          |
| Rated power supply .....                      | Voltage and Frequency               |                                        | Reference poles          |                          |                                   |                          |                          |
|                                               |                                     |                                        | L1                       | L2                       | L3                                | N                        | PE                       |
|                                               | <input type="checkbox"/>            |                                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> |
|                                               | <input type="checkbox"/>            | DC: 3.8 V                              |                          |                          |                                   |                          |                          |
| Rated Power .....                             | Not provided data                   |                                        |                          |                          |                                   |                          |                          |
| Clock frequencies..... :                      | Not provided data                   |                                        |                          |                          |                                   |                          |                          |
| Other parameters .....                        | Not provided data                   |                                        |                          |                          |                                   |                          |                          |
| Software version .....                        | v28                                 |                                        |                          |                          |                                   |                          |                          |
| Hardware version .....                        | v2.0                                |                                        |                          |                          |                                   |                          |                          |
| Dimensions in cm (W x H x D) .....            | 8 x 17 x 0.8                        |                                        |                          |                          |                                   |                          |                          |
| Mounting position .....                       | <input checked="" type="checkbox"/> | Other: Shinbone of the football player |                          |                          |                                   |                          |                          |
| Modules/parts..... :                          | Module/parts of test item           |                                        | Type                     |                          | Manufacturer                      |                          |                          |
|                                               | Right soccer shin guard             |                                        |                          |                          | Humanox Soccer                    |                          |                          |
| Accessories (not part of the test item) ..... | Description                         |                                        | Type                     |                          | Manufacturer                      |                          |                          |
|                                               | N/A                                 |                                        |                          |                          |                                   |                          |                          |
| Documents as provided by the applicant .....  | Description                         |                                        | File name                |                          | Issue date                        |                          |                          |
|                                               | N/A                                 |                                        |                          |                          |                                   |                          |                          |

<sup>(3)</sup> Only for Medical Equipment

## Identification of the client

Humanox Soccer, S.A.

Lugar de la Oropéndola, Calle "D", 1, - C.P. 11500 –  
El Puerto de Santa María (Cádiz), Spain.

## Testing period and place

|               |                                        |
|---------------|----------------------------------------|
| Test Location | DEKRA Testing and Certification S.A.U. |
| Date (start)  | 2021-10-13                             |
| Date (finish) | 2021-11-26                             |

## Document history

| Report number | Date       | Description   |
|---------------|------------|---------------|
| 69207RRF.003  | 2021-11-30 | First release |

## Environmental conditions

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

|                   |                              |
|-------------------|------------------------------|
| Temperature       | Min. = 15 °C<br>Max. = 35 °C |
| Relative humidity | Min. = 20 %<br>Max. = 75 %   |

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

|                   |                              |
|-------------------|------------------------------|
| Temperature       | Min. = 15 °C<br>Max. = 35 °C |
| Relative humidity | Min. = 20 %<br>Max. = 75 %   |

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

|                   |                              |
|-------------------|------------------------------|
| Temperature       | Min. = 15 °C<br>Max. = 35 °C |
| Relative humidity | Min. = 20 %<br>Max. = 75 %   |

## Remarks and comments

The tests have been performed by the technical personnel: Jaime Barranquero and Victoria Olmedo.

Used instrumentation:

### Radiated Measurements:

|    |                                                               | Last Calibration | Due Calibration |
|----|---------------------------------------------------------------|------------------|-----------------|
| 1. | Semianechoic Absorber Lined Chamber ALBATROSS P29419          | N.A.             | N.A.            |
| 2. | Shielded Room ALBATROSS P29419                                | N.A.             | N.A.            |
| 3. | Ultralog Antenna 30MHz-6GHz, ROHDE AND SCHWARZ HL562E_UPG     | 2019/10          | 2022/10         |
| 4. | EMI Test Receiver 2Hz-44GHz, ROHDE AND SCHWARZ ESW44          | 2019/10          | 2021/10         |
| 5. | Horn Antenna 1-18 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9120 D | 2019/11          | 2022/11         |
| 6. | HORN ANTENNA 18-40GHz SCHWARZBECK BBHA 9170                   | 2021/03          | 2024/03         |
| 7. | PRE-AMPLIFIER 30dB 500MHz-18GHz, SCHWARZBECK BBV 9718 C       | 2021/02          | 2022/02         |
| 8. | PRE-AMPLIFIER G>30dB 18-40GHz BONN ELEKTRONIK BLMA 1840-3G    | 2019/11          | 2021/11         |

### Conducted Measurements

|    |                                                                     | Last Calibration | Due Calibration |
|----|---------------------------------------------------------------------|------------------|-----------------|
| 1. | Shielded Room ETS LINDGREN S101                                     | N/A              | N/A             |
| 2. | Signal and Spectrum Analyzer 10 Hz - 40 GHz ROHDE AND SCHWARZ FSV40 | 2021/02          | 2023/02         |
| 3. | Open Switch Unit up to 7.5GHz ROHDE AND SCHWARZ OSP-B157W8 PLUS     | 2021/08          | 2023/08         |
| 4. | Open Switch Unit up to 40 GHz ROHDE AND SCHWARZ OSP-B157Wx          | N.A.             | N.A.            |

## Testing verdicts

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

## Summary

### Bluetooth Low Energy (5.0)

| FCC PART 15 PARAGRAPH                            |                                              |         |        |
|--------------------------------------------------|----------------------------------------------|---------|--------|
| Requirement – Test case                          |                                              | Verdict | Remark |
| FCC 15.247 (a)(2)                                | 6 dB Bandwidth                               | P       |        |
| FCC 15.247 (b)                                   | Maximum output power and antenna gain        | P       |        |
| FCC 15.247 (d)                                   | Band-edge emissions compliance (Transmitter) | P       |        |
| FCC 15.247 (e)                                   | Power spectral density                       | P       |        |
| FCC 15.247 (d)                                   | Emission limitations radiated (Transmitter)  | P       |        |
| <u>Supplementary information and remarks:</u>    |                                              |         |        |
| (1) The equipment only supports BLE5.0 at 2Mbps. |                                              |         |        |

## Appendix A: Test results. Bluetooth Low Energy

|                                                                          |    |
|--------------------------------------------------------------------------|----|
| TEST CONDITIONS.....                                                     | 11 |
| Occupied Bandwidth.....                                                  | 14 |
| FCC 47 CFR Part 15.247 (a) (2) 6 dB Bandwidth .....                      | 16 |
| FCC 15.247 (b) Maximum output power and antenna gain .....               | 18 |
| FCC 15.247 (d) Band-edge emissions compliance (Transmitter).....         | 21 |
| FCC 15.247 (e) Power spectral density .....                              | 23 |
| FCC Section 15.247 (d). Emission limitations radiated (Transmitter)..... | 25 |

## TEST CONDITIONS

### POWER SUPPLY (V):

|                       |                   |
|-----------------------|-------------------|
| V nominal:            | 3.8 Vdc.          |
| Type of Power Supply: | Internal battery. |

### ANTENNA:

|                                |                 |
|--------------------------------|-----------------|
| Type of Antenna:               | Internal (PCB). |
| Maximum Declared Antenna Gain: | +3.3 dBi        |

### TEST FREQUENCIES:

|                 |          |
|-----------------|----------|
| Low Channel:    | 2402 MHz |
| Middle Channel: | 2440 MHz |
| High Channel:   | 2480 MHz |

### CONDUCTED MEASUREMENTS:

The equipment under test was set up in a shielded room and it is connected to the TS8997 using a low loss RF cable. The reading of the spectrum analyser is corrected taking into account the cable loss.



### RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (bilog antenna for the range between 30 MHz to 1000 MHz and 1 GHz-17 GHz double ridge horn antenna) is situated at a distance of 3 m and at a distance of 1 m for the frequency range 17 GHz-26 GHz (17 GHz-40 GHz horn antenna).

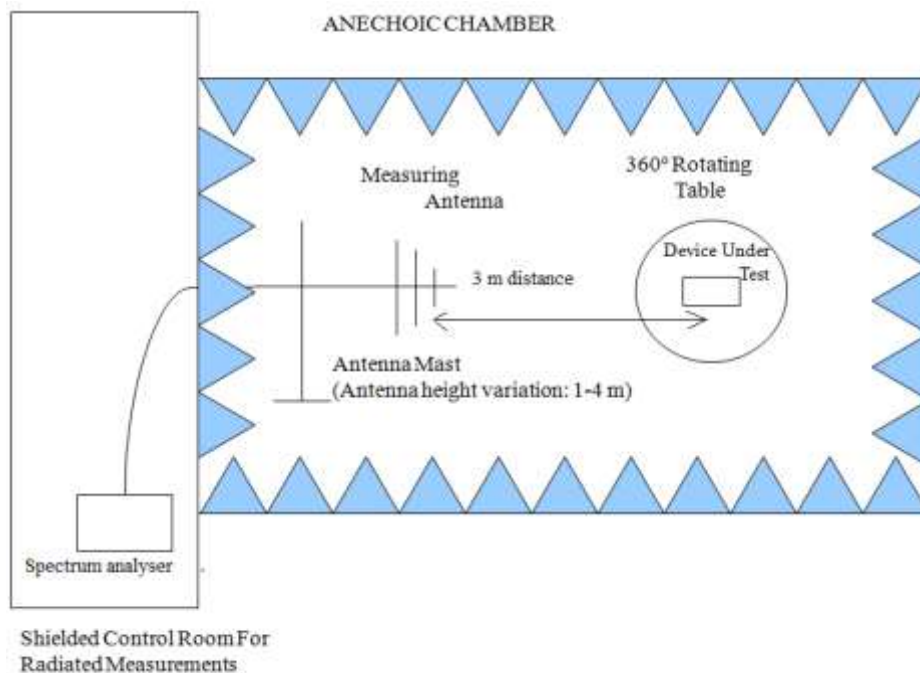
For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

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 (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

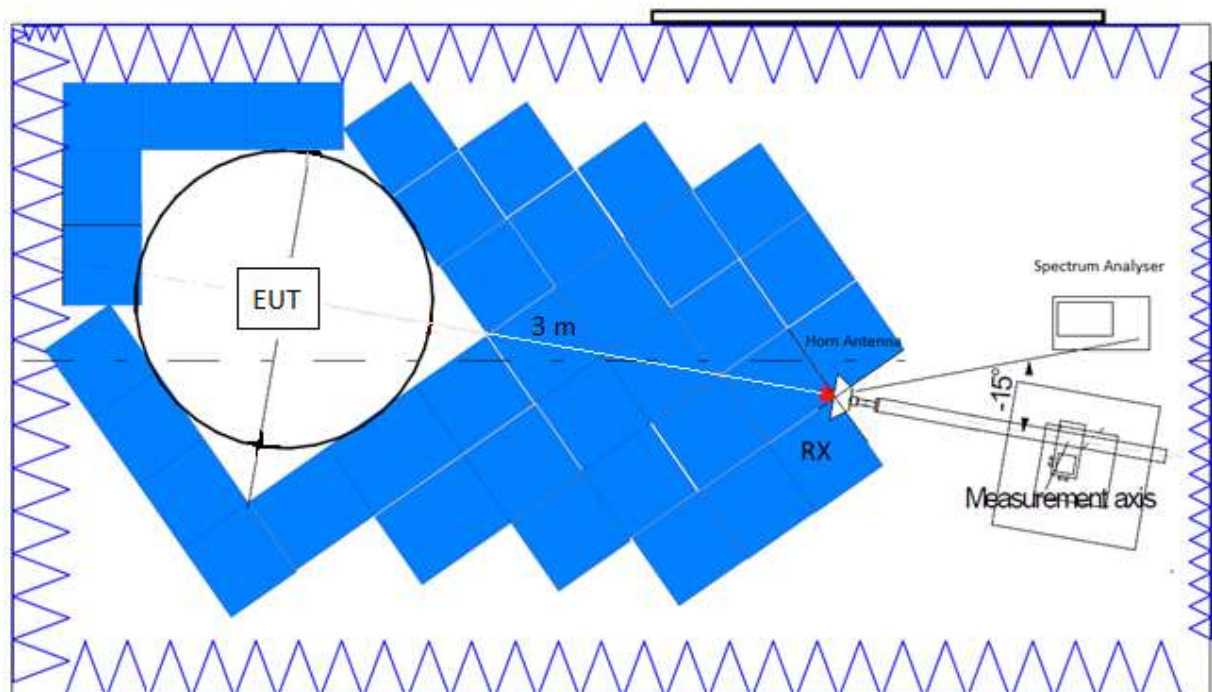
Measurements were made in both horizontal and vertical planes of polarization.

A resolution bandwidth / video bandwidth of 100 kHz / 300 kHz was used for frequencies below 1 GHz and 1 MHz / 3 MHz for frequencies above 1 GHz.

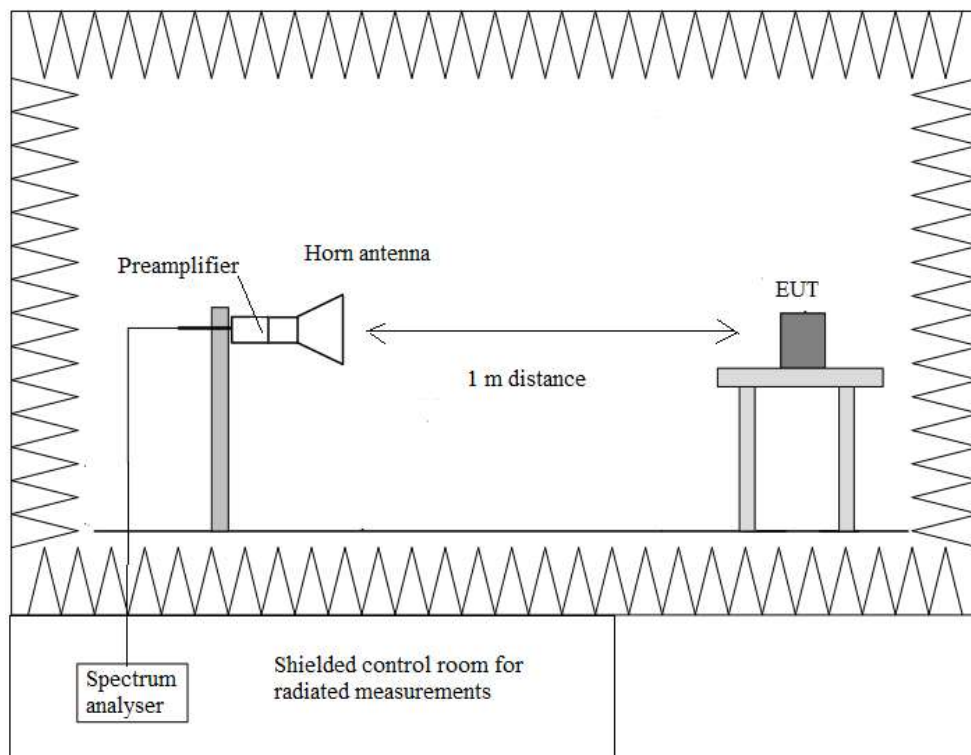
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1GHz to 17 GHz:



Radiated measurements setup  $f > 17$  GHz:



Occupied Bandwidth

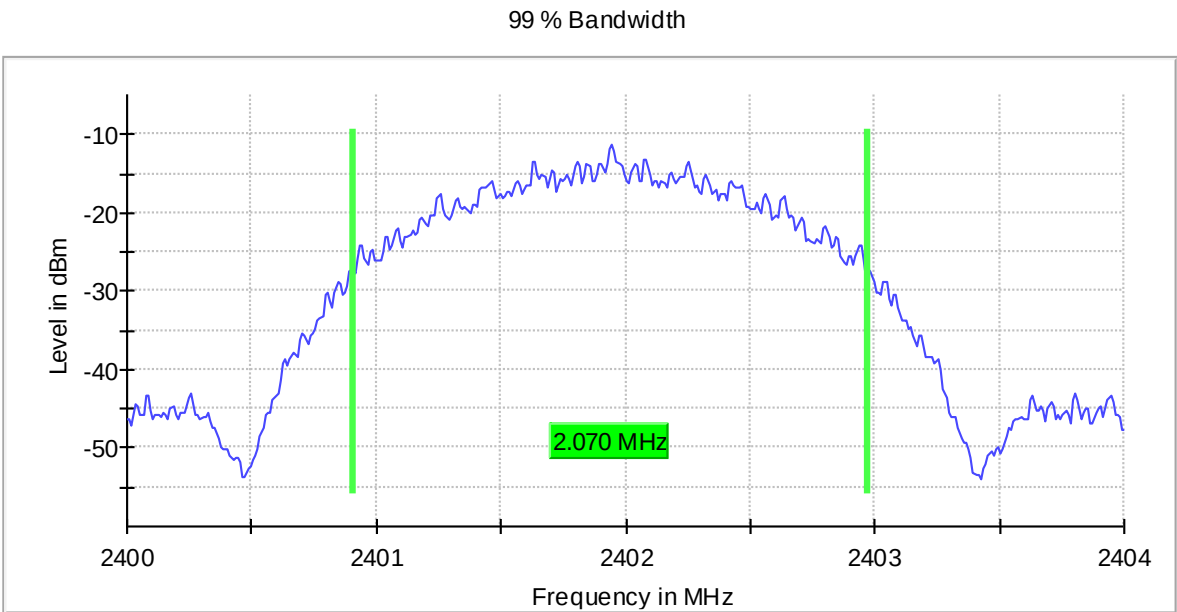
RESULTS:

- 2M modulation

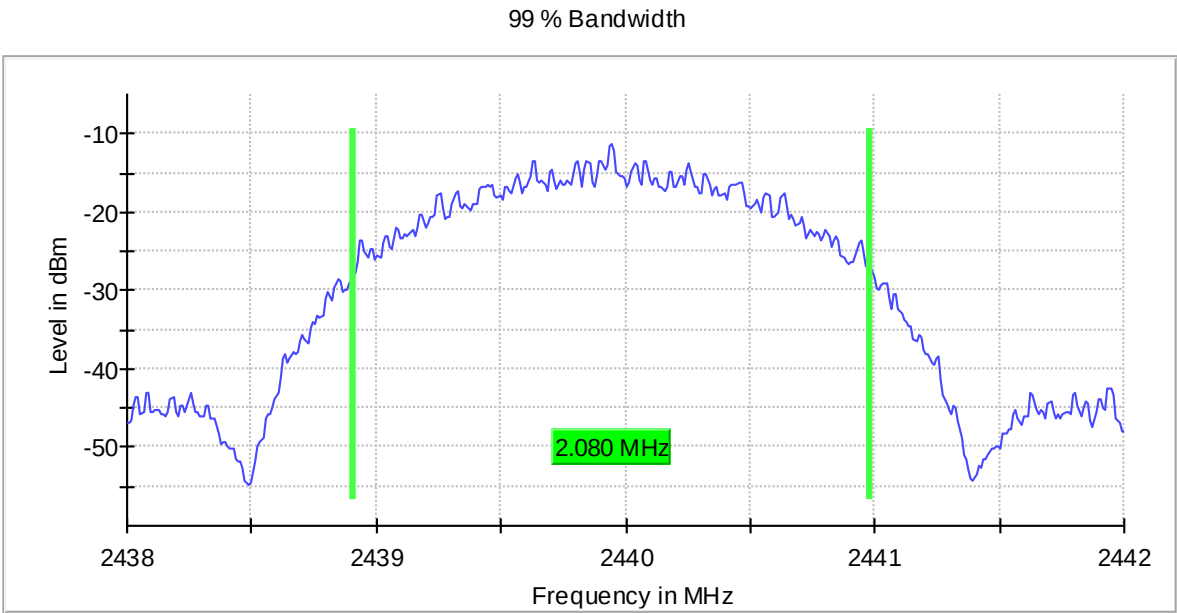
|                             | Low Channel<br>2402 MHz | Middle Channel<br>2440 MHz | High Channel<br>2480 MHz |
|-----------------------------|-------------------------|----------------------------|--------------------------|
| 99% bandwidth (MHz)         | 2070                    | 2080                       | 2090                     |
| Measurement uncertainty (%) | <± 2.08                 |                            |                          |

Verdict: PASS

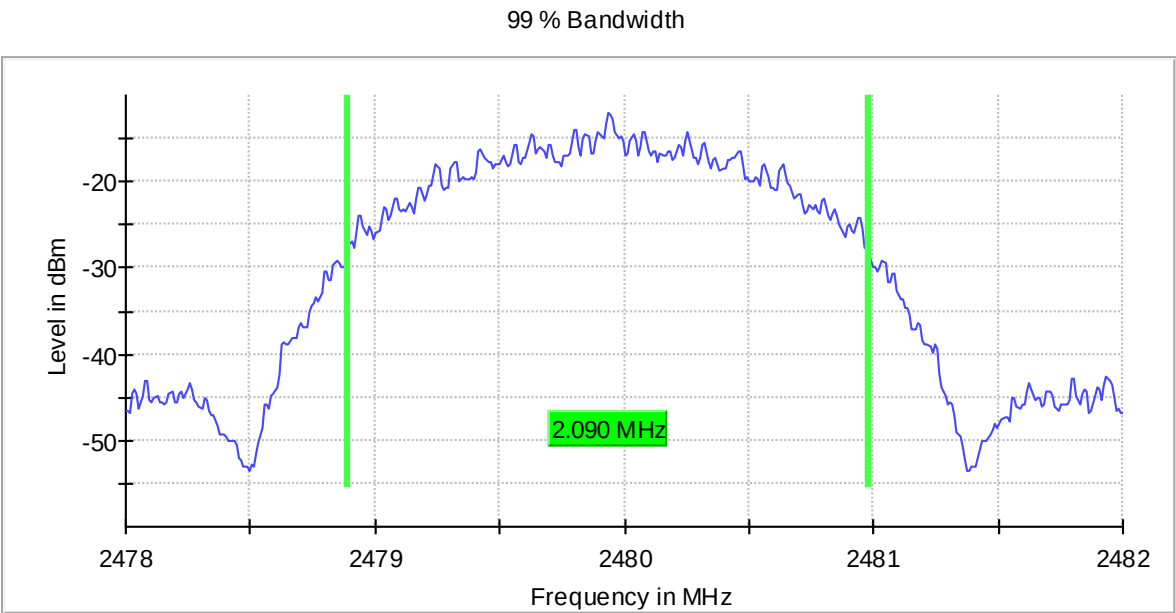
- Low Channel:



- Middle Channel:



- High Channel:



## FCC 47 CFR Part 15.247 (a) (2) 6 dB Bandwidth

### Limits

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

### Results

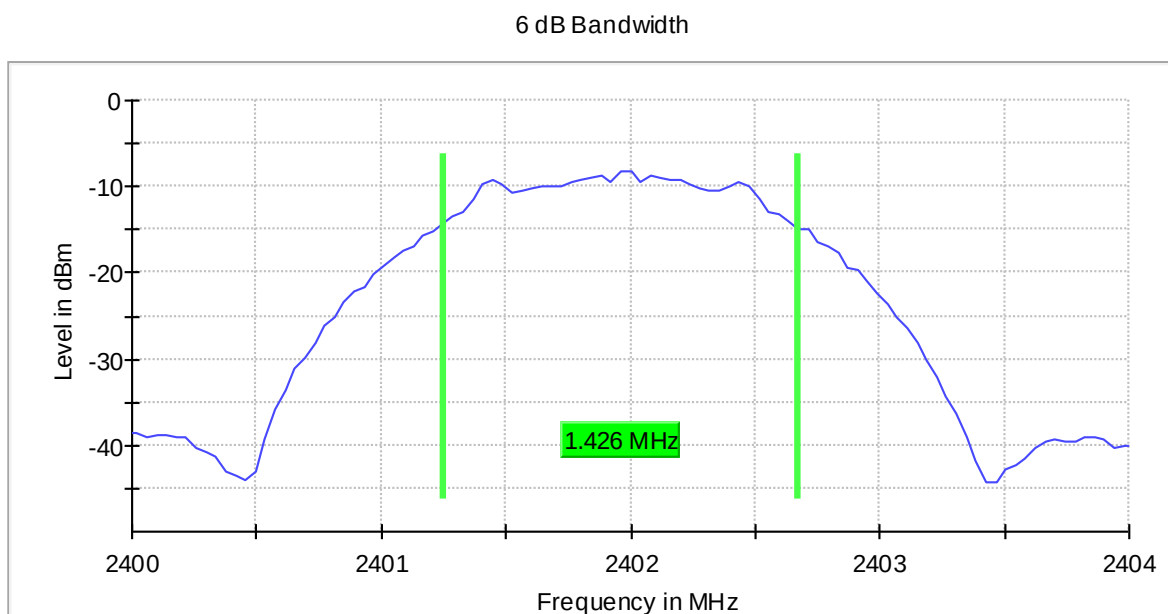
Modulation: BTLE 5.0 (GFSK 2 Mbit/s)

|                               | Low Channel<br>2402 MHz | Middle Channel<br>2440 MHz | High Channel<br>2480 MHz |
|-------------------------------|-------------------------|----------------------------|--------------------------|
| 6 dB Spectrum bandwidth (kHz) | 1426                    | 1505                       | 1465                     |
| Measurement uncertainty (%)   | <±2.08                  |                            |                          |

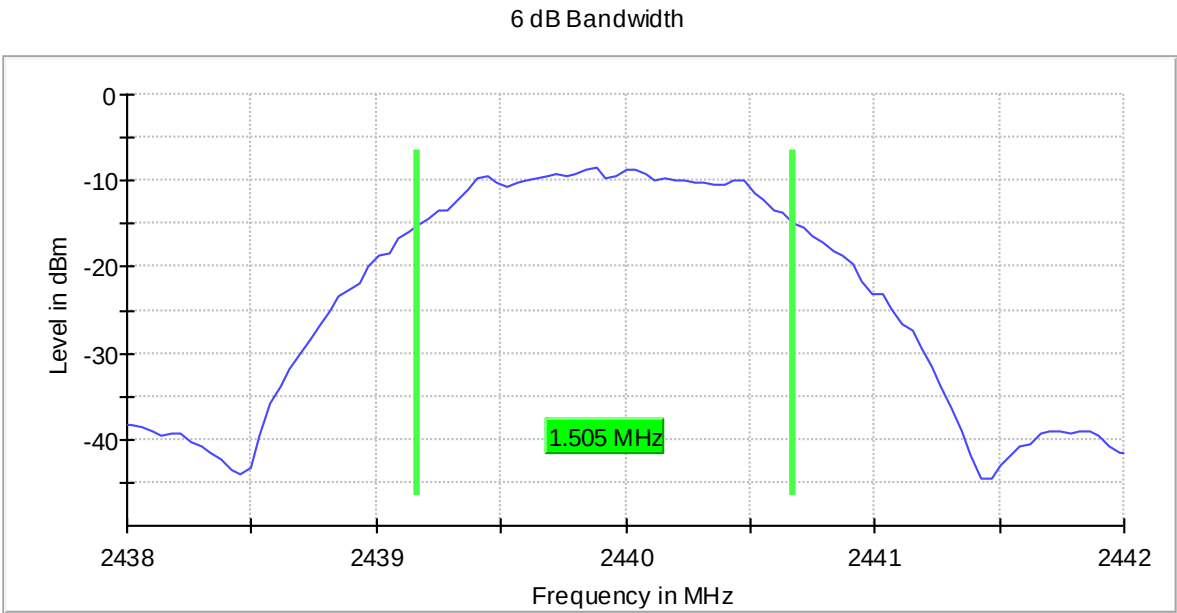
Measurement Uncertainty (dB): < ± 4.94

Verdict: PASS

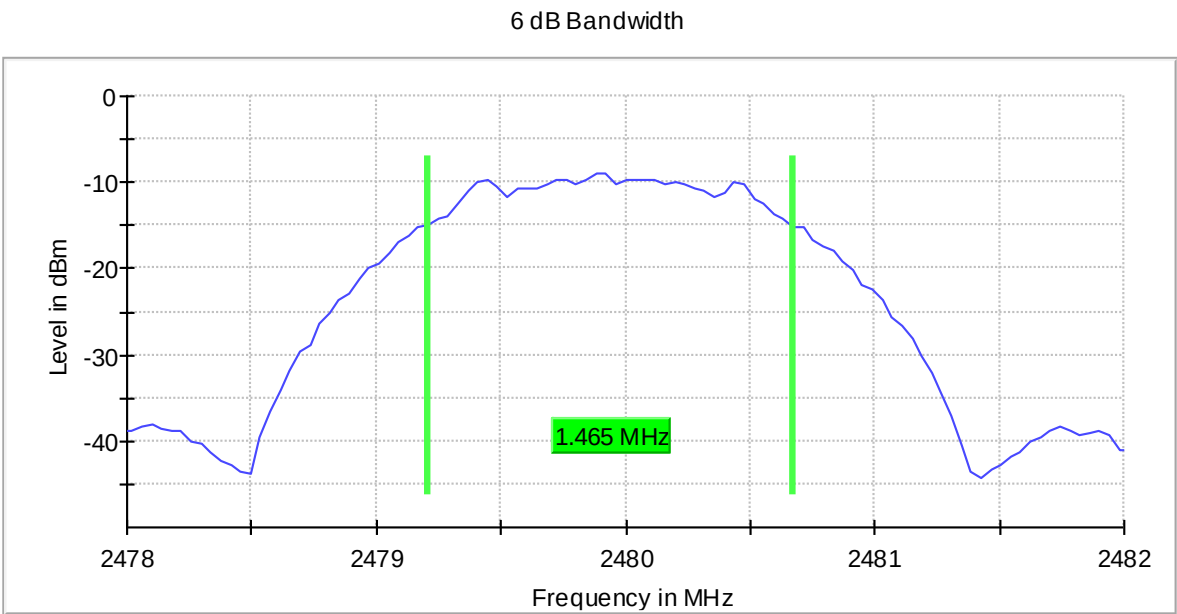
- Low Channel:



- Middle Channel:



- High Channel:



## FCC 15.247 (b) Maximum output power and antenna gain

### SPECIFICATION:

For systems using digital modulation in the 2400-2483.5 MHz band: 1 watt (30 dBm).

### RESULTS:

The maximum peak conducted output power level in the fundamental emission was measured using the method according to point 11.9.1.1 "RBW  $\geq$  DTS bandwidth" of ANSI C.63.10-2013.

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

Maximum Declared Antenna Gain: 3.3 dBi

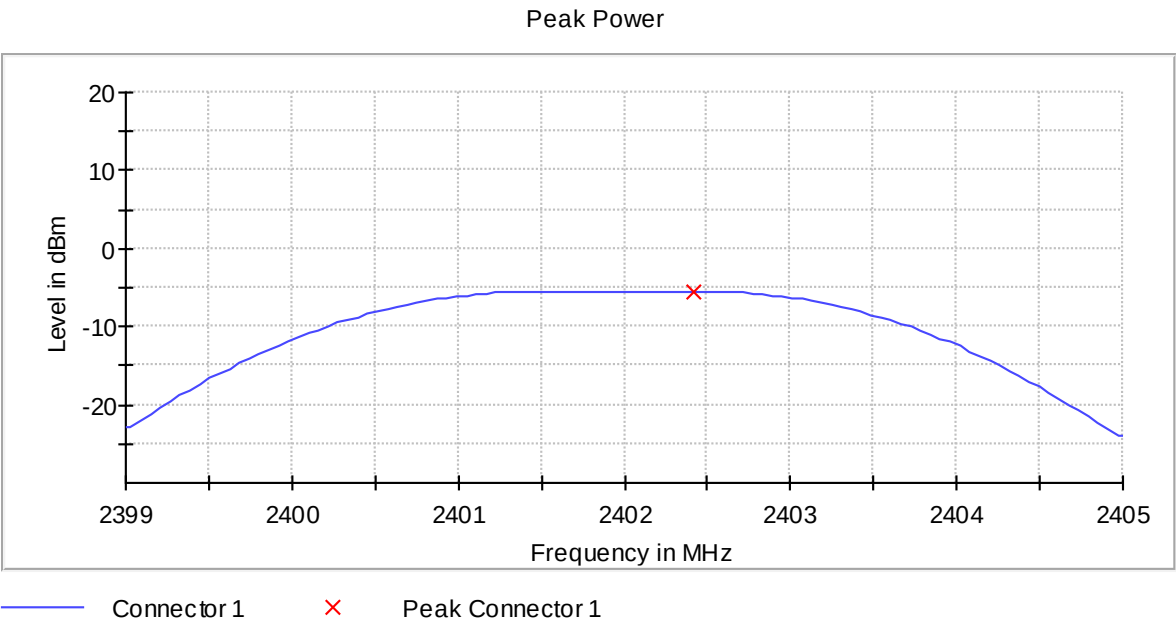
- **2M modulation**

|                               | Low Channel<br>2402 MHz | Middle Channel<br>2440 MHz | High Channel<br>2480 MHz |
|-------------------------------|-------------------------|----------------------------|--------------------------|
| Maximum Conducted Power (dBm) |                         |                            |                          |
| Maximum EIRP Power (dBm)      |                         |                            |                          |
| Measurement uncertainty (dB)  | < $\pm$ 0.99            |                            |                          |

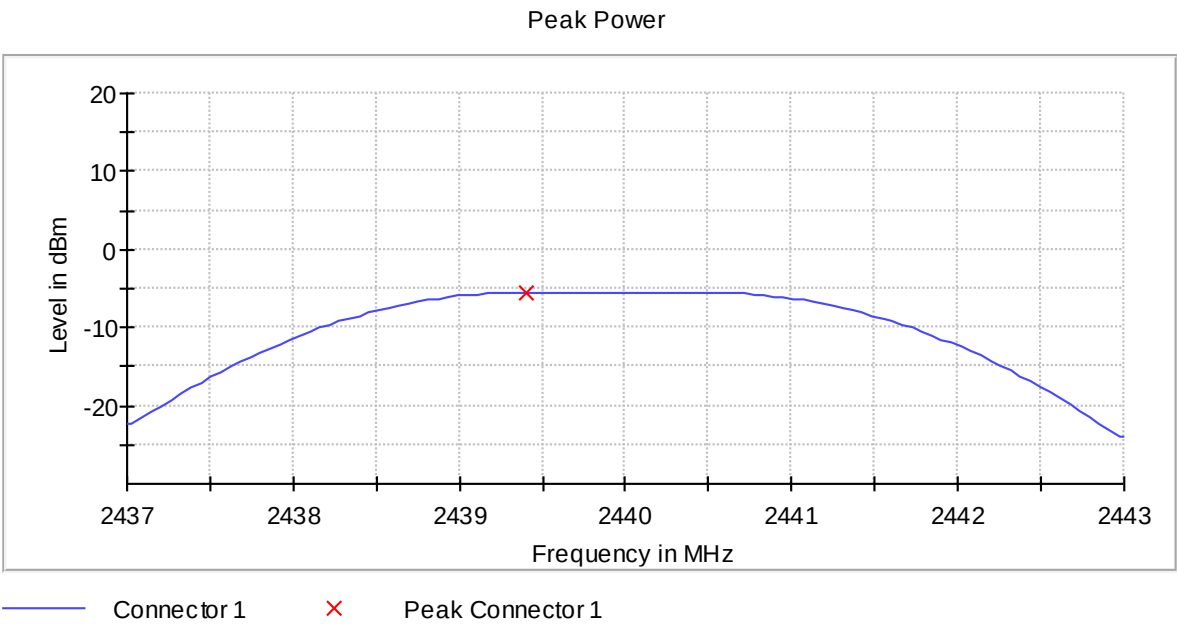
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Verdict: PASS

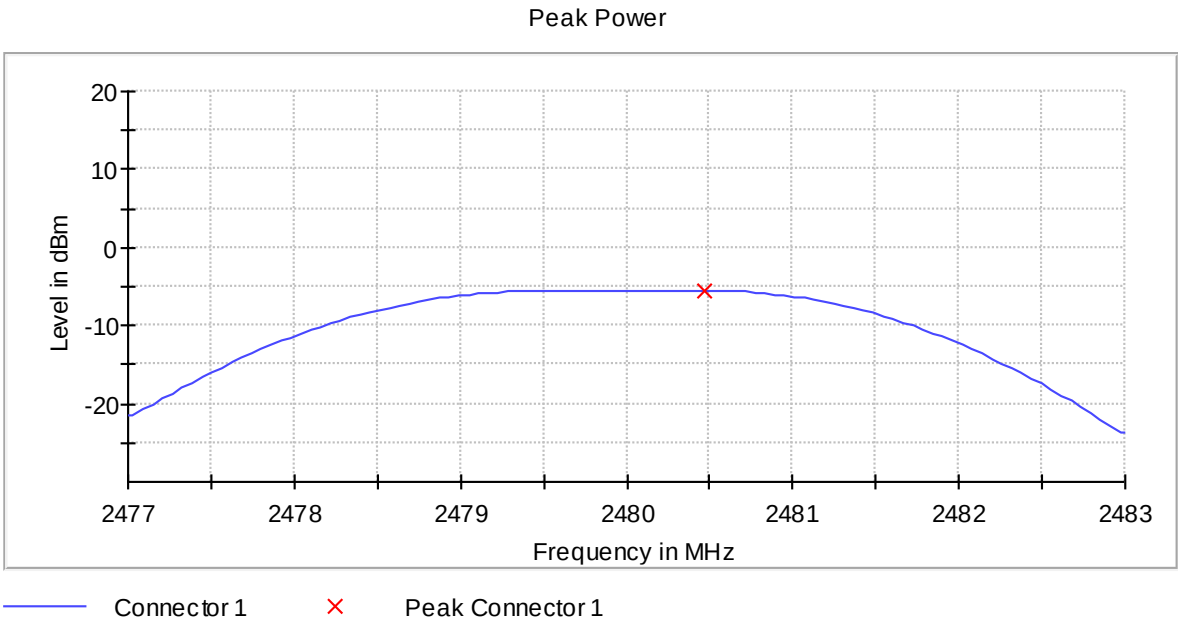
- Low Channel:



- Middle Channel:



- High Channel:



## FCC 15.247 (d) Band-edge emissions compliance (Transmitter)

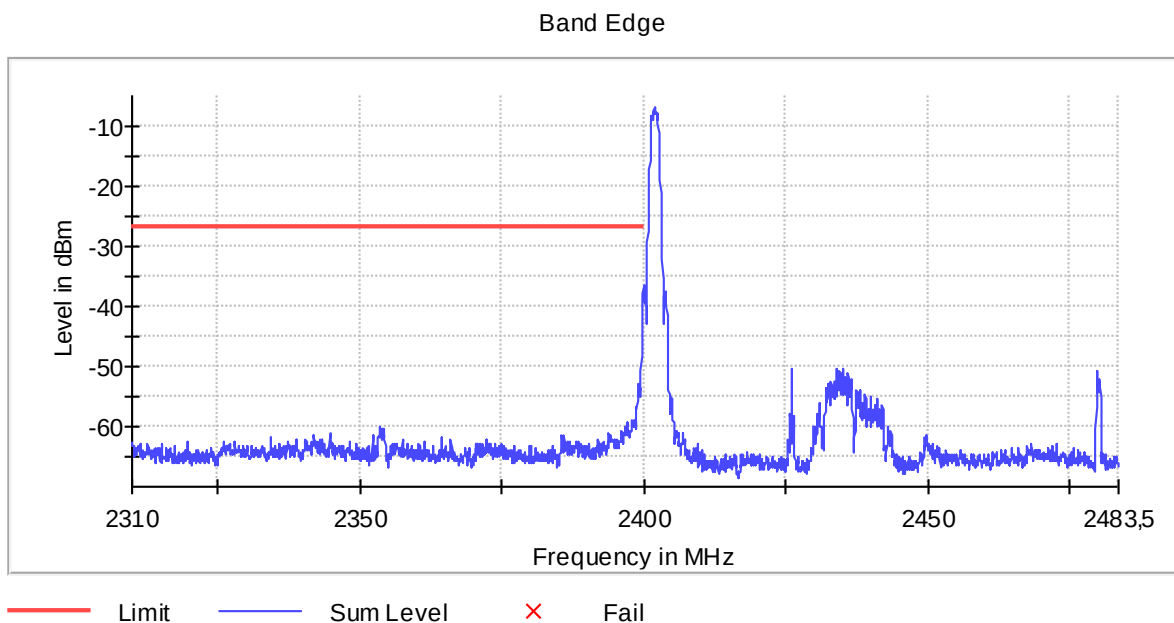
### SPECIFICATION:

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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

### RESULTS:

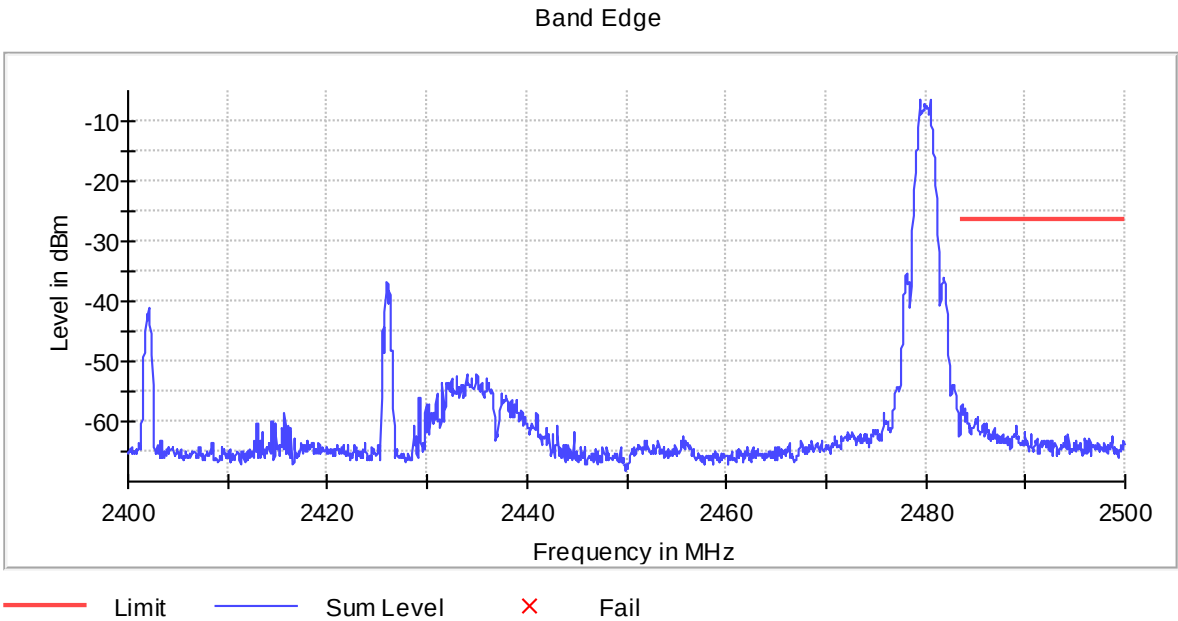
- **2M modulation**

- Low Channel:



Verdict: PASS

- High Channel:



Verdict: PASS

|                              |        |
|------------------------------|--------|
| Measurement uncertainty (dB) | <±0.89 |
|------------------------------|--------|

FCC 15.247 (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:

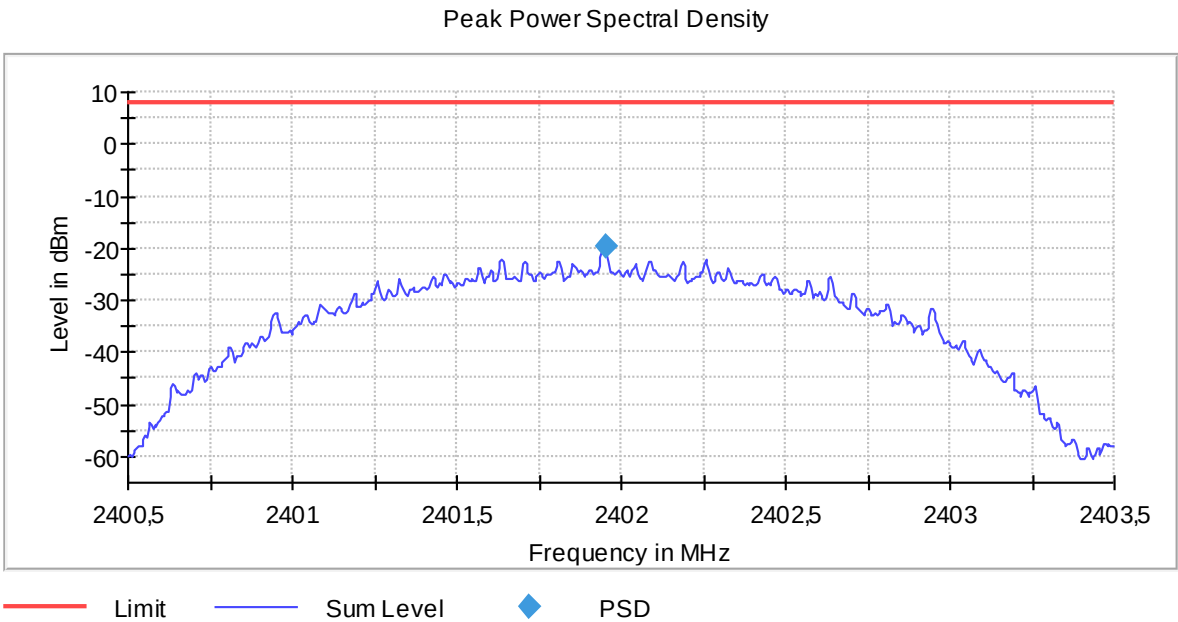
The maximum power spectral density level in the fundamental emission was measured using the method according to point 11.10.2.” Method PKPSD (peak PSD)” of ANSI C.63.10-2013.

- 2M modulation

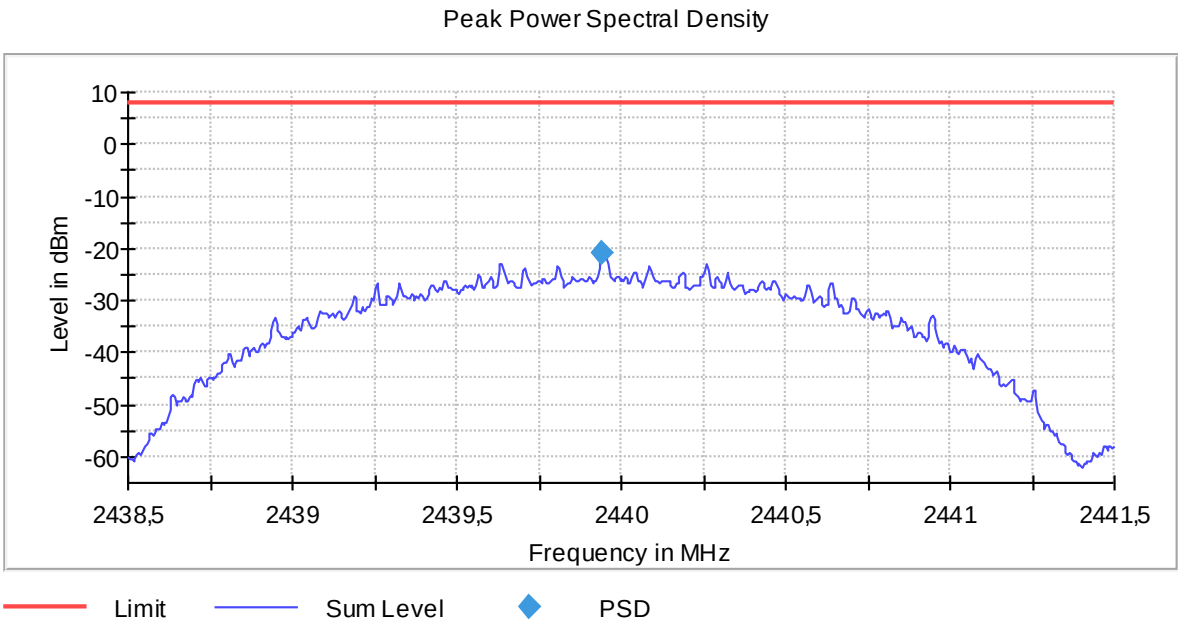
|                              | Low Channel<br>2402 MHz | Middle Channel<br>2440 MHz | High Channel<br>2480 MHz |
|------------------------------|-------------------------|----------------------------|--------------------------|
| Power Spectral Density (dBm) | -19.718                 | -20.958                    | -21.243                  |
| Measurement uncertainty (dB) | <±0.99                  |                            |                          |

Verdict: PASS

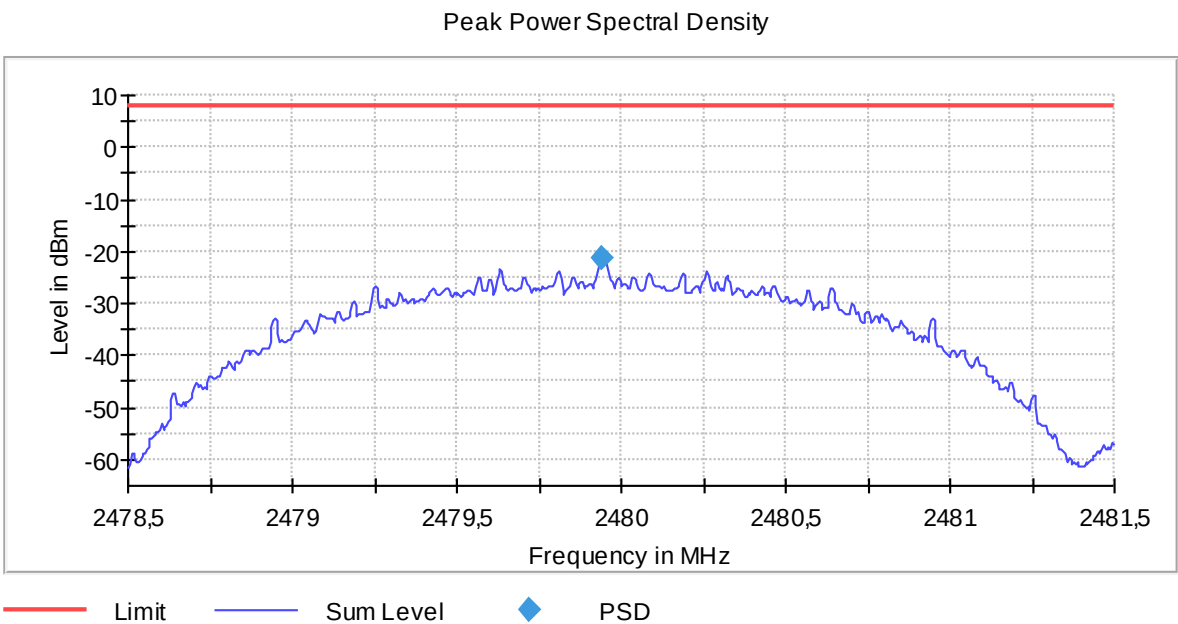
- Low Channel:



- Middle Channel:



- High Channel:



## FCC Section 15.247 (d). Emission limitations radiated (Transmitter)

### SPECIFICATION:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 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 - 10000           | 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-17 GHz and at distance of 1m for the frequency range 17 GHz-26 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 - 1 GHz:

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

No spurious emissions at less than 20 dB from the limit:

Measurement Uncertainty (dB):  $< \pm 4.94$

Verdict: PASS

### Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

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

- LOW CHANNEL. Spurious frequencies detected at less than 20 dB below the limit:

| Spurious Frequency (GHz) | Emission Level (dB $\mu$ V/m) | Polarization | Detector | Measurement Uncertainty (dB) |
|--------------------------|-------------------------------|--------------|----------|------------------------------|
| 4.8045                   | 57.37                         | H            | Peak     | $< \pm 4.60$                 |
|                          | 51.69                         |              | Average  | $< \pm 4.60$                 |
| 7.2040                   | 67.16                         | H            | Peak     | $< \pm 4.60$                 |

- MIDDLE CHANNEL. Spurious frequencies detected at less than 20 dB below the limit:

| Spurious Frequency (GHz) | Emission Level (dB $\mu$ V/m) | Polarization | Detector | Measurement Uncertainty (dB) |
|--------------------------|-------------------------------|--------------|----------|------------------------------|
| 4.8785                   | 46.38                         | H            | Peak     | $< \pm 4.60$                 |
| 7.3215                   | 60.39                         | H            | Peak     | $< \pm 4.60$                 |
|                          | 51.58                         |              | Average  | $< \pm 4.60$                 |

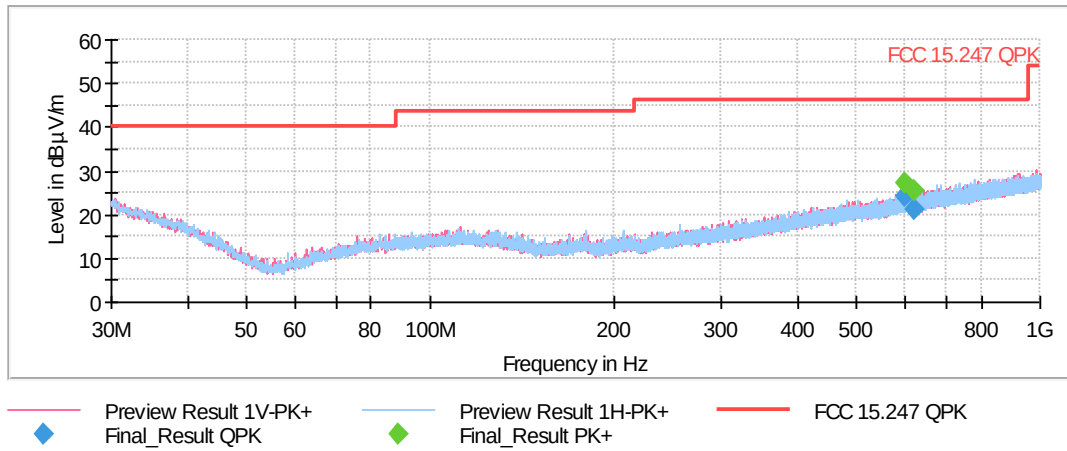
- HIGH CHANNEL. Spurious frequencies detected at less than 20 dB below the limit:

| Spurious Frequency (GHz) | Emission Level (dB $\mu$ V/m) | Polarization | Detector | Measurement Uncertainty (dB) |
|--------------------------|-------------------------------|--------------|----------|------------------------------|
| 4.9610                   | 50.66                         | H            | Peak     | $< \pm 4.60$                 |
| 7.4380                   | 56.35                         | H            | Peak     | $< \pm 4.60$                 |
|                          | 46.03                         |              | Average  | $< \pm 4.60$                 |

Measurement Uncertainty (dB): 1-3 GHz  $< \pm 3.98$   
3-17 GHz  $< \pm 4.60$   
17-26 GHz  $< \pm 4.89$

Verdict: PASS

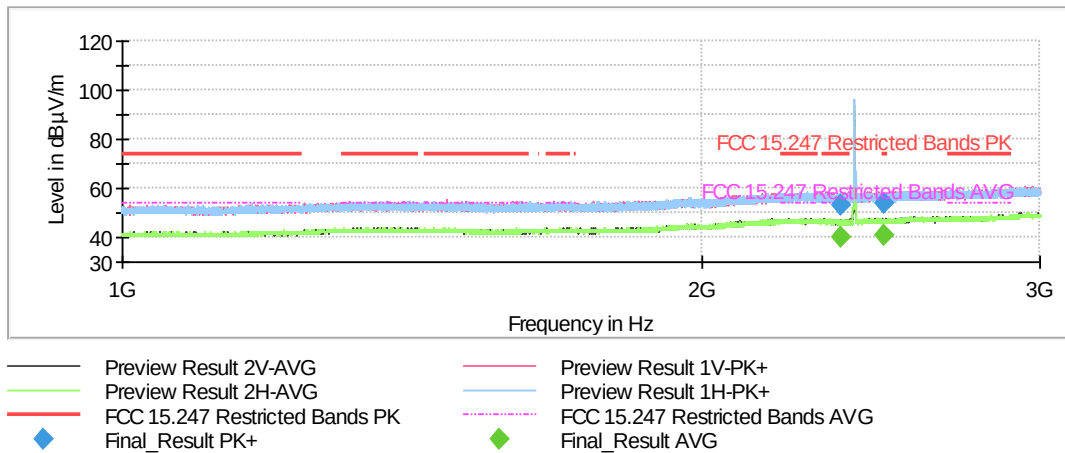
## FREQUENCY RANGE 30 MHz - 1 GHz:



This plot is valid for the Low, Middle and High Channels.

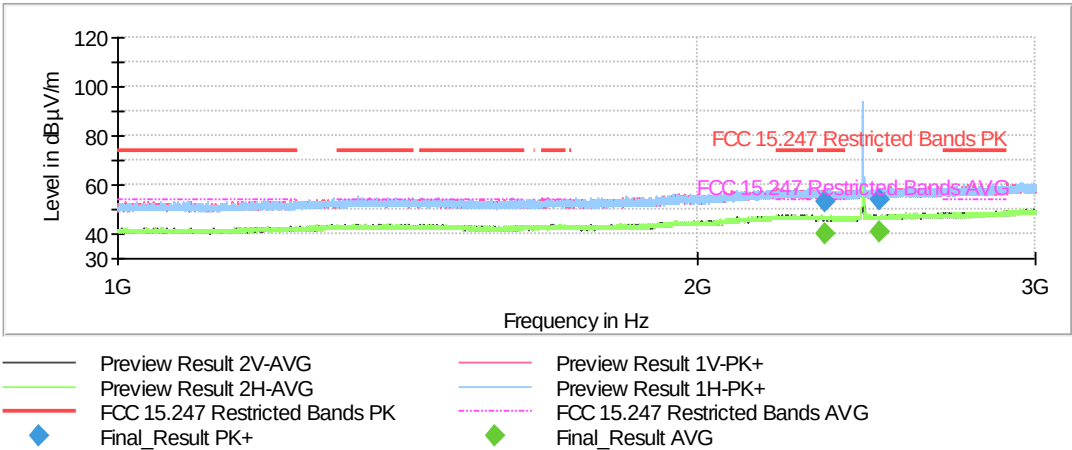
## FREQUENCY RANGE 1 - 3 GHz:

- Low Channel:



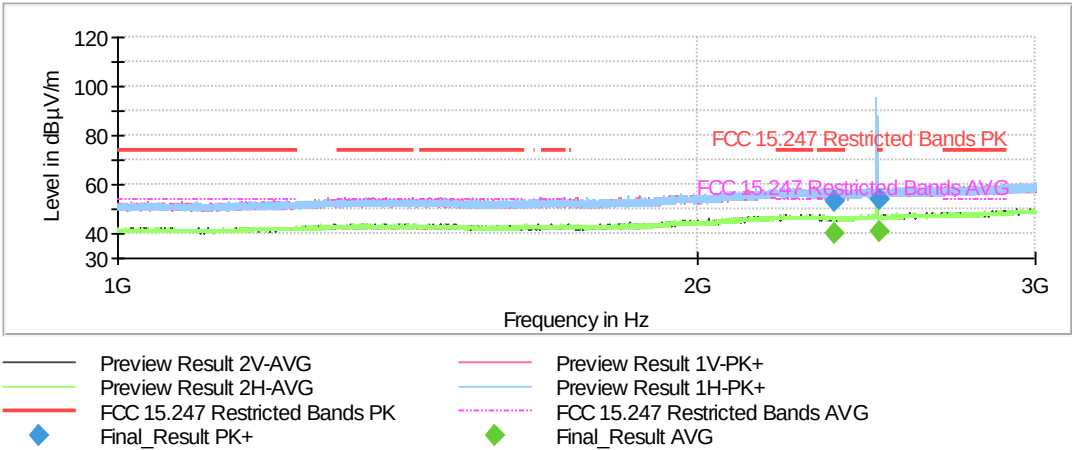
The peak above the limit is the carrier frequency.

- Middle Channel:



The peak above the limit is the carrier frequency.

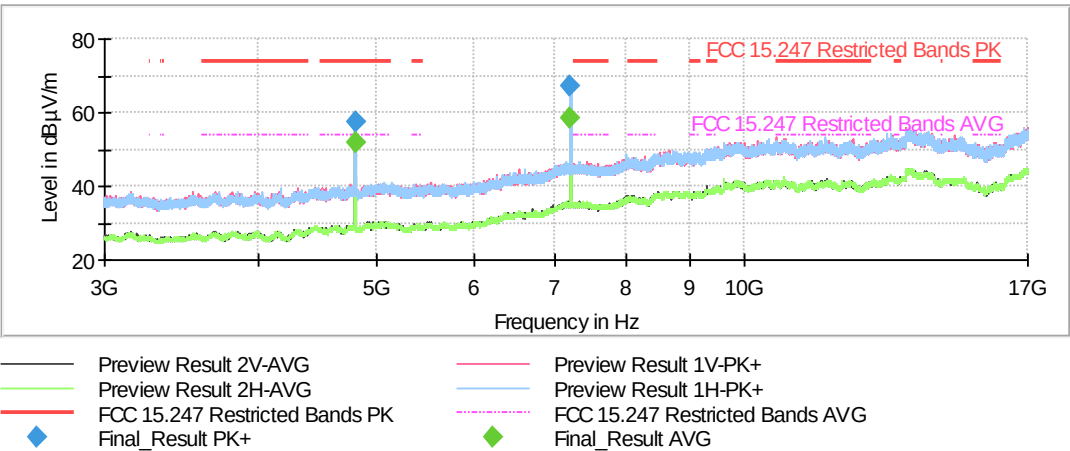
- High Channel:



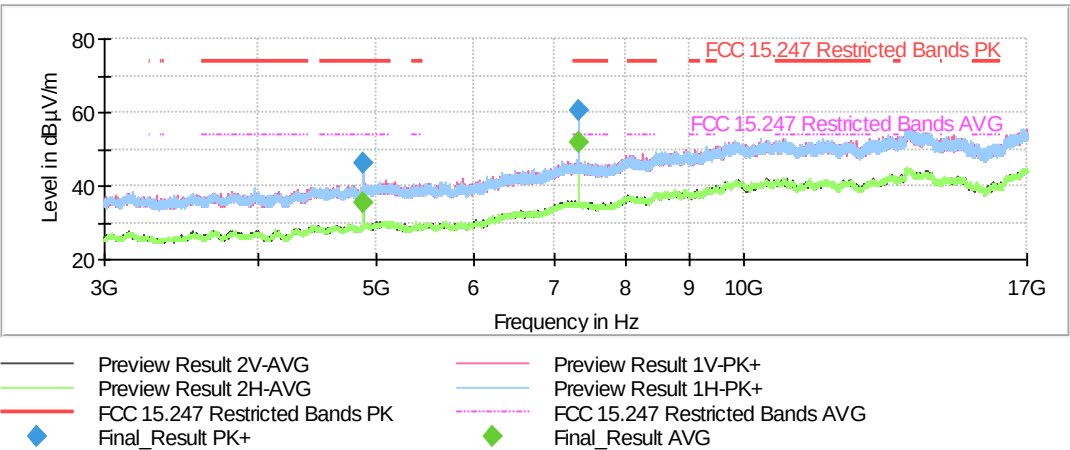
The peak above the limit is the carrier frequency.

FREQUENCY RANGE 3 - 17 GHz:

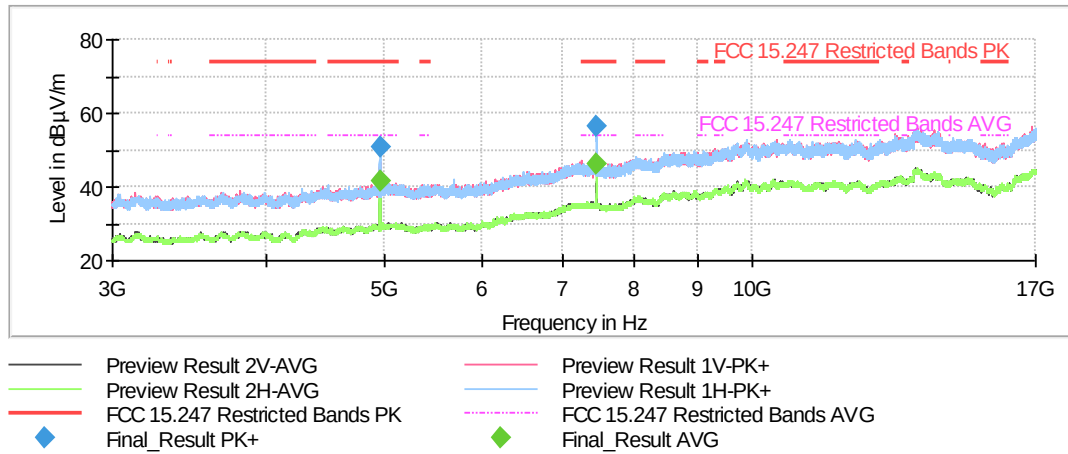
- Low Channel:



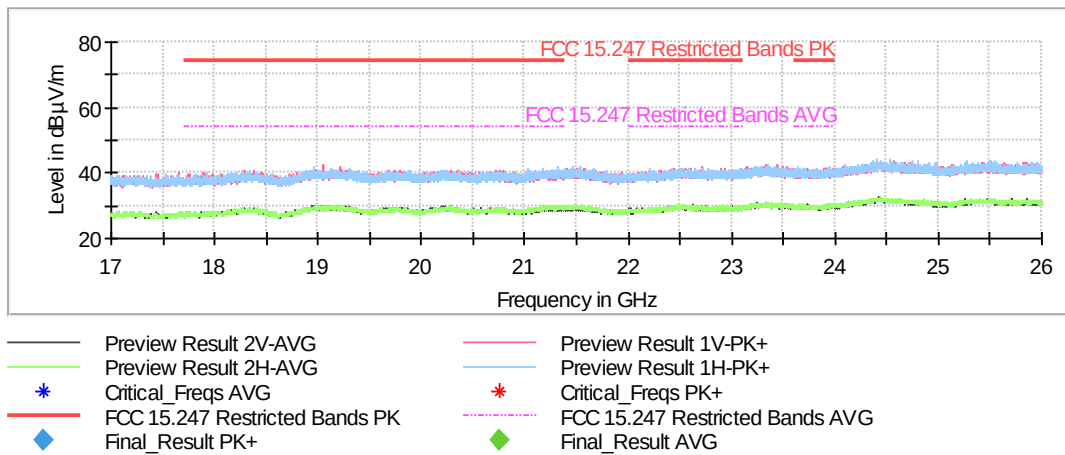
- Middle Channel:



- High Channel:



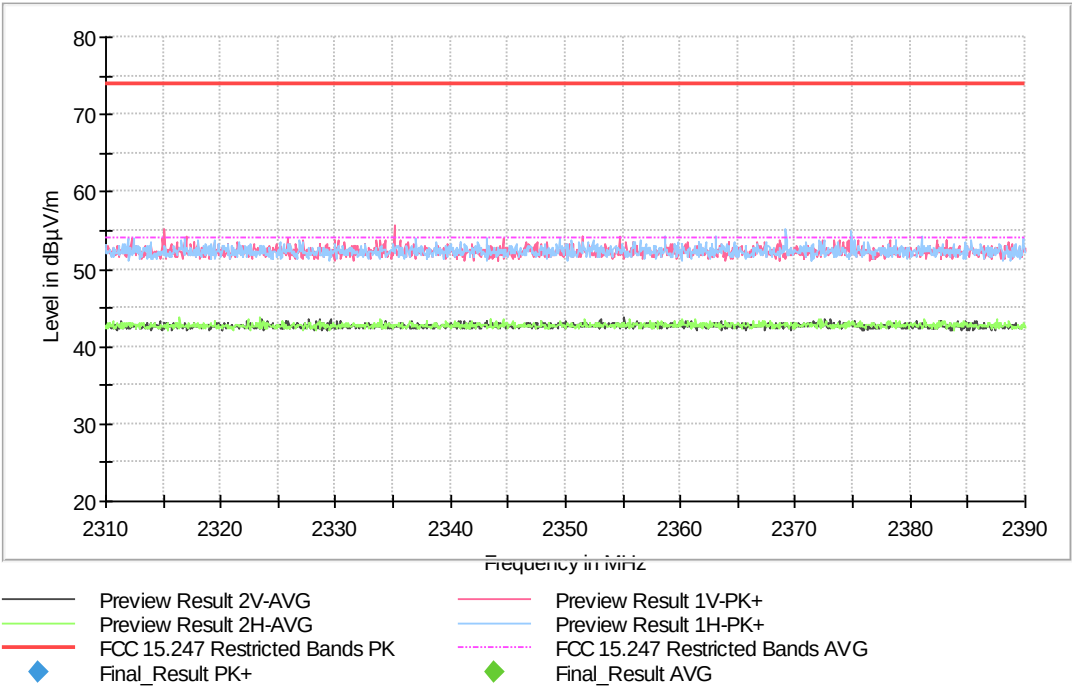
FREQUENCY RANGE 17 - 26 GHz:



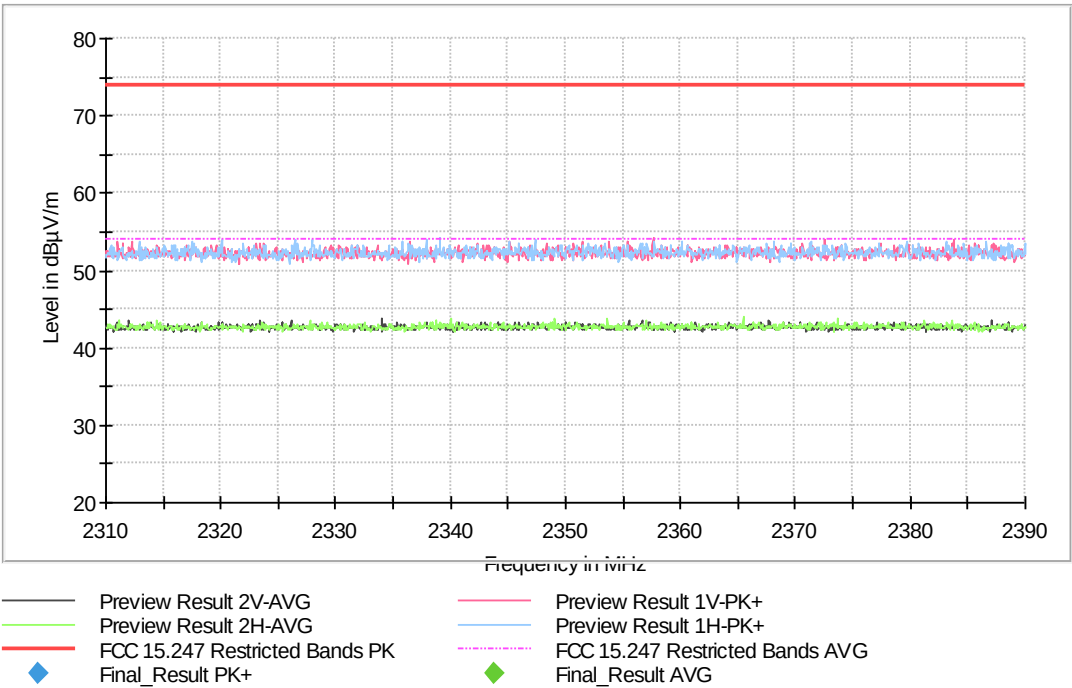
This plot is valid for the Low, Middle and High Channels.

FREQUENCY RANGE 2.31-2.39 GHz:

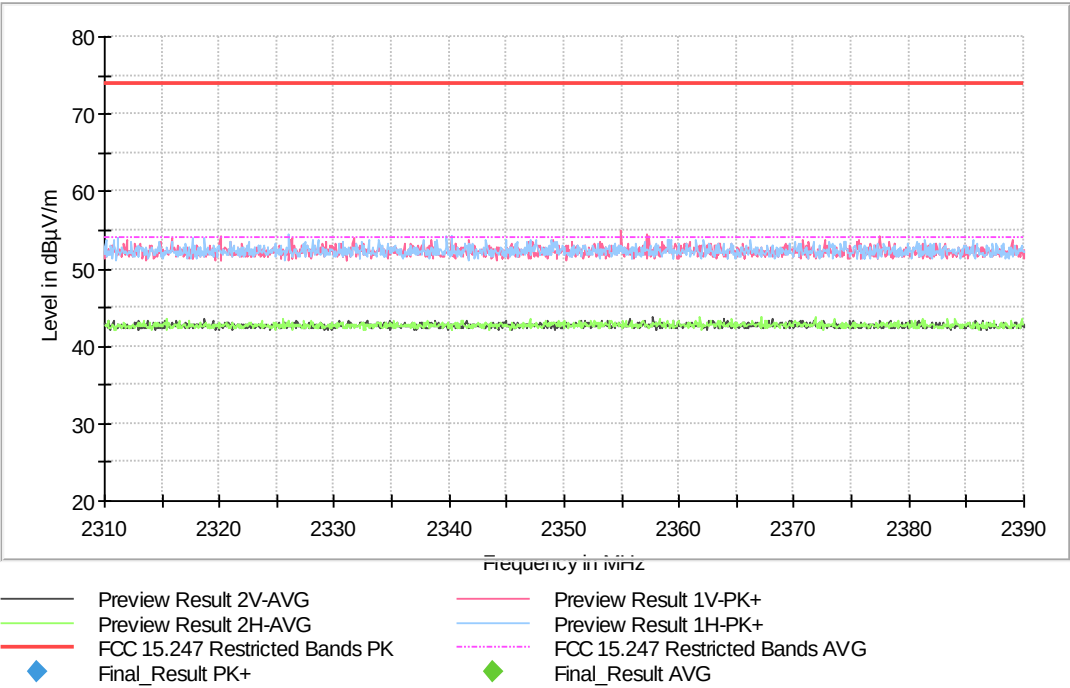
- Low Channel:



- Middle Channel:

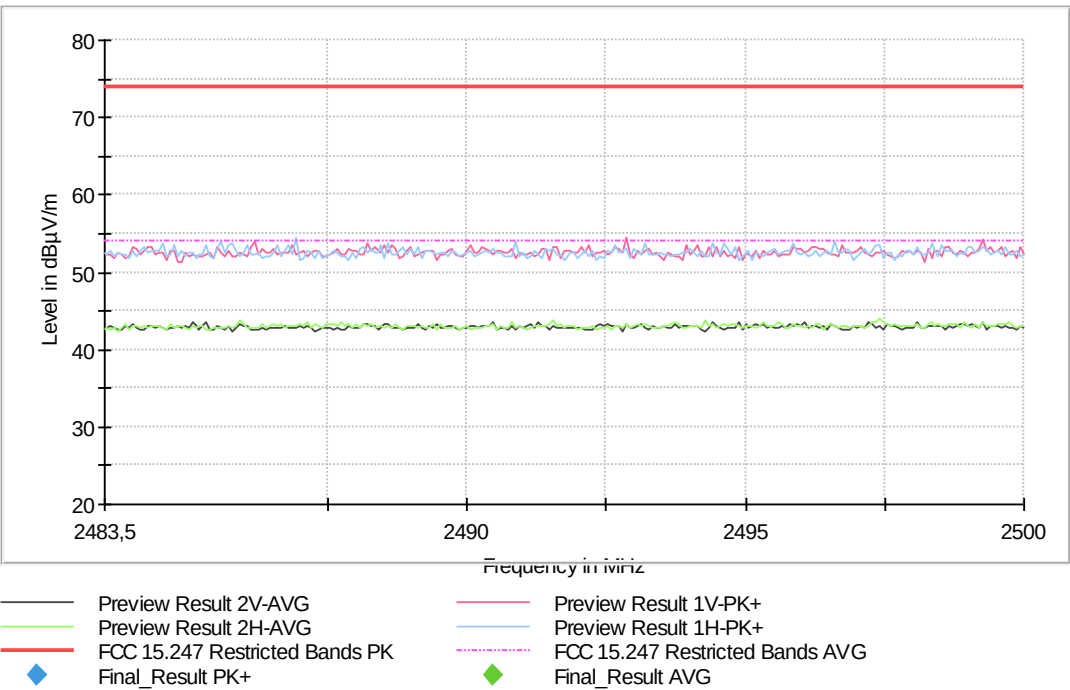


- High Channel:

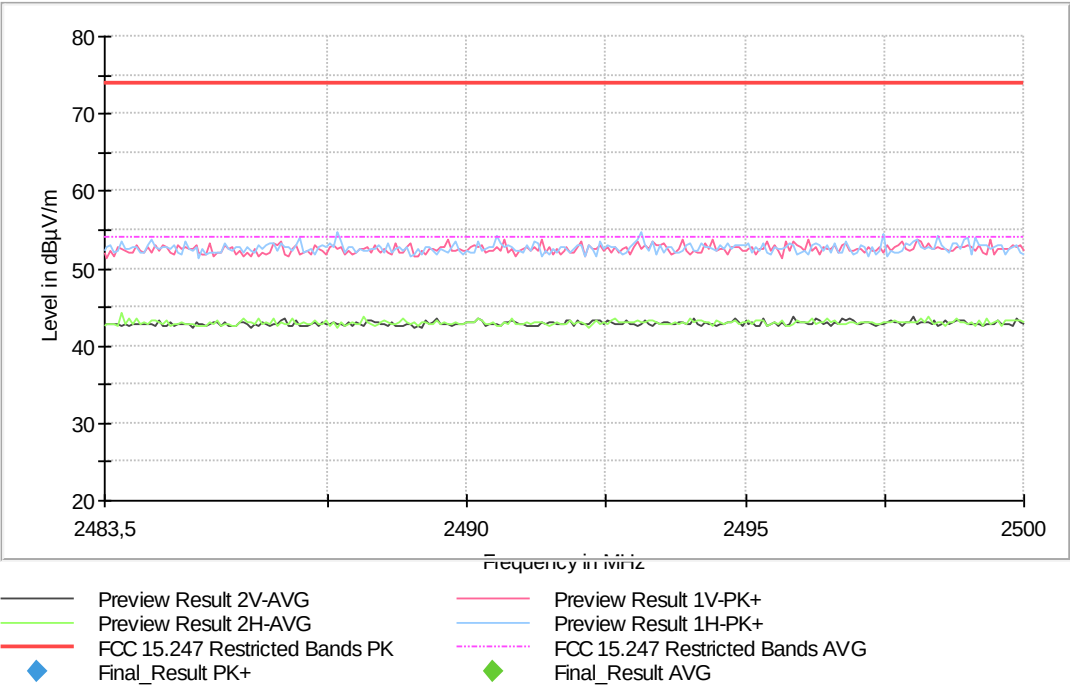


FREQUENCY RANGE 2.4835-2.5 GHz:

- Low Channel:



- Middle Channel:



- High Channel:

