

ISED CABid: ES1909

Test Report No:

NIE: 70435RRF.002

## Partial Test Report

### USA FCC Part 15.247, 15.209

### CANADA RSS-247, RSS-Gen

|   |  |
|---|--|
| (*) Identification of item tested         | Wellness ring  |
| (*) Trademark                             | ÖURA   |
| (*) Model and /or type reference          | LE1  |
| Other identification of the product       | HW version: BLB_03<br>SW version: 2.6.7<br>FCC ID: 2AD7V-OURA2101<br>IC: 20635-OURA2101  |
| (*) Features                              | Sleep Analysis, Activity Monitoring, Readiness Score, Bluetooth LE   |
| Manufacturer                              | Oura Health Oy<br>Elektroniikkatie 10, 90590 Oulu, Finland   |
| 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>CANADA RSS-247 Issue 2 (February 2017).<br>CANADA RSS-Gen Issue 5 amendment 1 (March 2019).<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.<br>558074 D01 Meas Guidance v05r02 dated April 2, 2019.<br>ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices. |
| Approved by (name / position & signature) | Jose Manuel Gómez<br>Industrial & Automotive<br>EMC Lab. Manager   |
| Date of issue                             | 2022-03-02   |
| Report template No                        | FDT08_23<br>(* ) "Data provided by the client"   |

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## Acronyms

| Acronym ID     | Acronym Description          |
|----------------|------------------------------|
| Detector       | Detector used                |
| Equipment      | Equipment Type               |
| Freq           | Frequency                    |
| Freq Rng       | Frequency Range              |
| MP             | Measurement Point            |
| Mod            | Modulation                   |
| Operation Band | Operation Band               |
| Pol            | Polarization                 |
| Unwanted Freq  | Unwanted Emissions Frequency |
| Unwanted Lvl   | Unwanted Emissions Level     |

## Competences and guarantees

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 covers the performed tests in this report.

DEKRA Testing and Certification is an ISED-recognized accredited testing laboratory, CABid: ES1909, with the appropriate scope of accreditation that covers the performed tests in this 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.

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

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## Uncertainty

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

The total uncertainty of the measurement system for the radiated emissions of EUT from 30 MHz to 1 GHz is: Measurement uncertainty  $\leq \pm 5,35$  dB with factor ( $k = 2$ ).

The total uncertainty of the measurement system for the radiated emissions of EUT from 1 GHz to 17 GHz is: Measurement uncertainty  $\leq \pm 4,32$  dB with factor ( $k = 2$ ).

The total uncertainty of the measurement system for the radiated emissions of EUT from 17 GHz to 26 GHz is: Measurement uncertainty  $\leq \pm 5,51$  dB with factor ( $k = 2$ ).

## 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 consists of a Wellness ring. LE1 is a revolutionary wellness ring and app, designed to help user gets more restful sleep and performs better. It enables user to learn how the lifestyle choices affect user's sleep, and how the quality of the sleep affects user's ability to perform. The LE1 ring can automatically tell when user is sleeping. When user goes to sleep, the LE1 ring analyzes the quality of the rest and recovery by measuring the heart rate (optically), respiration rate, body temperature, and movement. While user is awake, it monitors the duration and intensity of the activities, and the time user spends sitting. The OURA app integrates and visualizes this data to identify patterns between the sleep quality and daily activities. By understanding how well user slept and recharged, it can determine the readiness to perform and help user adjust the intensity and duration of the day's activities. It can also uncover actionable insights for changes to the daily activities that can help user sleep better..

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 results.

## Usage of samples

Samples undergoing test have been selected by: The client.

| Id   | Control Number | Description | Model         | Serial N° | Date of Reception | Application        |
|------|----------------|-------------|---------------|-----------|-------------------|--------------------|
| S/01 | 70435B_1       | Smart ring  | LE1 (size 11) | --        | 2022-01-19        | Element Under Test |
| S/01 | 70435B_19      | USB cable   | --            | --        | 2022-01-19        | Element Under Test |
| S/01 | 70435B_9       | Charger #1  | LE1           | --        | 2022-01-19        | Element Under Test |

Notes referenced to samples during the project:

| Id   | Type     |
|------|----------|
| S/01 | Radiated |

## Test sample description

|   |                           |                                |                      |              |                                   |     |     |
|---|---------------------------|--------------------------------|----------------------|--------------|-----------------------------------|-----|-----|
| Ports..... :                                  | Port name and description | Cable                          |                      |              |                                   |     |     |
|   |                           | Specified max length [m]       | Attached during test | Shielded     | Coupled to patient <sup>(3)</sup> |     |     |
|   | .....                     | .....                          | [ ]                  | [ ]          | [ ]                               |     |     |
| Supplementary information to the ports..... : | .....                     |                                |                      |              |                                   |     |     |
| Rated power supply .....                      | Voltage and Frequency     |                                | Reference poles      |              |                                   |     |     |
|   |                           |                                | L1                   | L2           | L3                                | N   | PE  |
|   | [ ]                       | AC: .....                      | [ ]                  | [ ]          | [ ]                               | [ ] | [ ] |
|   | [ ]                       | AC: .....                      | [ ]                  | [ ]          | [ ]                               | [ ] | [ ] |
| [ ]   | DC: .....                 |                                |                      |              |                                   |     |     |
| Rated Power .....                             | .....                     |                                |                      |              |                                   |     |     |
| Clock frequencies..... :                      | .....                     |                                |                      |              |                                   |     |     |
| Other parameters .....                        | .....                     |                                |                      |              |                                   |     |     |
| Software version .....                        | 2.6.7                     |                                |                      |              |                                   |     |     |
| Hardware version .....                        | BLB_03                    |                                |                      |              |                                   |     |     |
| Dimensions in cm (W x H x D) .....            | .....                     |                                |                      |              |                                   |     |     |
| Mounting position .....                       | [ ]                       | Table top equipment            |                      |              |                                   |     |     |
|   | [ ]                       | Wall/Ceiling mounted equipment |                      |              |                                   |     |     |
|   | [ ]                       | Floor standing equipment       |                      |              |                                   |     |     |
|   | [X]                       | Hand-held equipment            |                      |              |                                   |     |     |
|   | [ ]                       | Other: .....                   |                      |              |                                   |     |     |
| Modules/parts..... :                          | Module/parts of test item |                                | Type                 | Manufacturer |                                   |     |     |
|   | .....                     |                                | .....                | .....        |                                   |     |     |
| Accessories (not part of the test item) ..... | Description               |                                | Type                 | Manufacturer |                                   |     |     |
|   | .....                     |                                | .....                | .....        |                                   |     |     |
| Documents as provided by the applicant .....  | Description               |                                | File name            | Issue date   |                                   |     |     |
|   | .....                     |                                | .....                | .....        |                                   |     |     |

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

## Identification of the client

Oura Health Oy  
Elektroniikkatie 10, 90590 Oulu, Finland

## Testing period and place

|                      |  |
|----------------------|--|
| <b>Test Location</b> | DEKRA Testing and Certification S.A.U. |
| <b>Date (start)</b>  | 2022-02-03                             |
| <b>Date (finish)</b> | 2022-02-14                             |

## Document history

| Report number | Date       | Description    |
|---------------|------------|----------------|
| 70435RRF.002  | 2022-02-22 | First release. |

## 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 %   |

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 %   |

## Remarks and comments

The tests have been performed by the technical personnel: Daniel Mejías Herrera and Jaime Barranquero Gómez.

Used instrumentation:

| Equipment                               | Model        | Manufacturer                | Next Calibration |
|---|--------------|-----------------------------|------------------|
| SEMIANECHOIC ABSORBER LINED CHAMBER     | P29419       | ALBATROSS                   | N.A.             |
| SHIELDED ROOM                           | P29419       | ALBATROSS                   | N.A.             |
| SIGNAL AND SPECTRUM ANALYZER 10Hz-40GHz | FSV40        | ROHDE AND SCHWARZ           | 2023-10-22       |
| EMI TEST RECEIVER 20Hz-26.5GHz          | ESU26        | ROHDE AND SCHWARZ           | 2022-11-05       |
| HORN ANTENNA 1-18GHz                    | BBHA 9120D   | SCHWARZBECK MESS-ELEKTRONIK | 2022-11-15       |
| HORN ANTENNA 18-40GHz                   | BBHA 9170    | SCHWARZBECK                 | 2024-03-19       |
| PRE-AMPLIFIER G>30dB 18-40GHz           | BLMA 1840-3G | BONN ELEKTRONIK             | 2023-02-15       |
| PREAMPLIFIER 30dB 500MHz-18GHz          | BBV 9718 C   | SCHWARZBECK                 | 2022-03-01       |
| ULTRALOG ANTENNA 30MHz-6GHz             | HL562E_UPG   | ROHDE AND SCHWARZ           | 2022-10-15       |

## Testing verdicts

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

## Summary

### 1. Bluetooth Low Energy 5.0 (2M, 1M).

| FCC PART 15 PARAGRAPH/ RSS-247                |  |         |        |
|---|--|---------|--------|
| Requirement – Test case                       |  | Verdict | Remark |
| FCC 15.247 (a)(2) / RSS-247 5.2. (a)          | 6 dB Bandwidth                               | N/M     | (1)    |
| FCC 15.247 (b) / RSS-247 5.4. (d)             | Maximum output power and antenna gain        | N/M     | (1)    |
| FCC 15.247 (d) / RSS-247 5.5.                 | Band-edge emissions compliance (Transmitter) | N/M     | (1)    |
| FCC 15.247 (e) / RSS-247 5.2. (b)             | Power spectral density                       | N/M     | (1)    |
| FCC 15.247 (d) / RSS-247 5.5.                 | Emission limitations radiated (Transmitter)  | P       |        |
| <u>Supplementary information and remarks:</u> |  |         |        |
| 1. Only radiated test is requested            |  |         |        |

## Appendix A: Test results. Bluetooth Low Energy 5.0 (2M, 1M)

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## TEST CONDITIONS

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(\*): Data provided by the client.

### POWER SUPPLY (\*):

|                       |          |
|-----------------------|----------|
| Vnominal:             | 3.7 V DC |
| Type of Power Supply: | Battery  |

### ANTENNA (\*):

|                                |           |
|--------------------------------|-----------|
| Type of Antenna:               | Integral  |
| Maximum Declared Antenna Gain: | -24.9 dBi |

### TEST FREQUENCIES (\*):

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

### 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 1.5 m for the frequency range 17 GHz-26 GHz (17 GHz-40 GHz horn antenna).

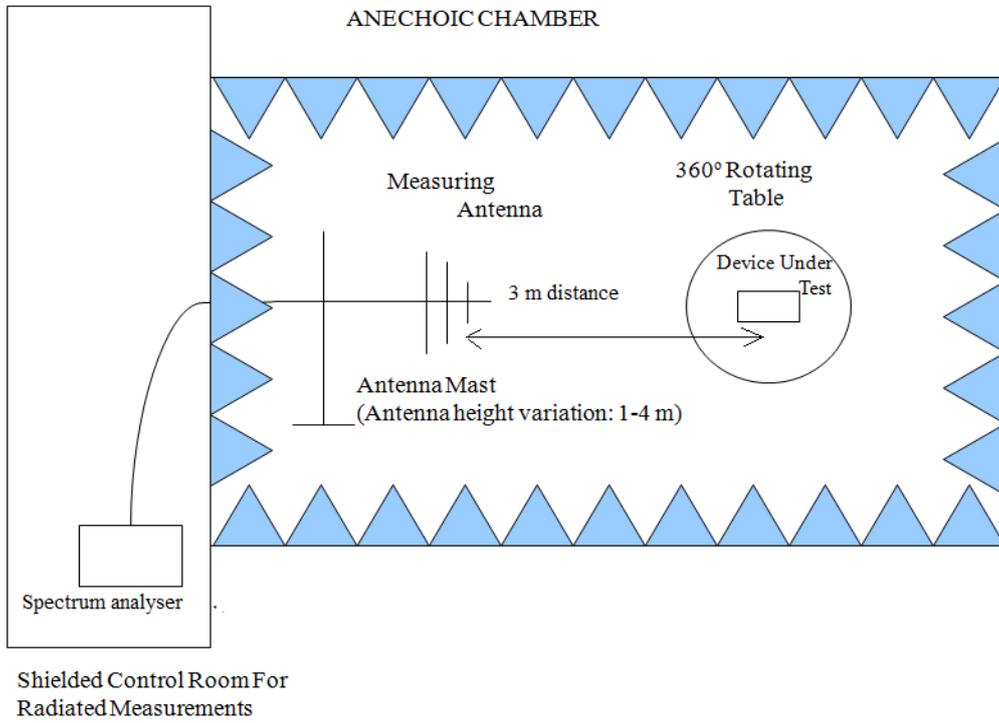
For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

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.

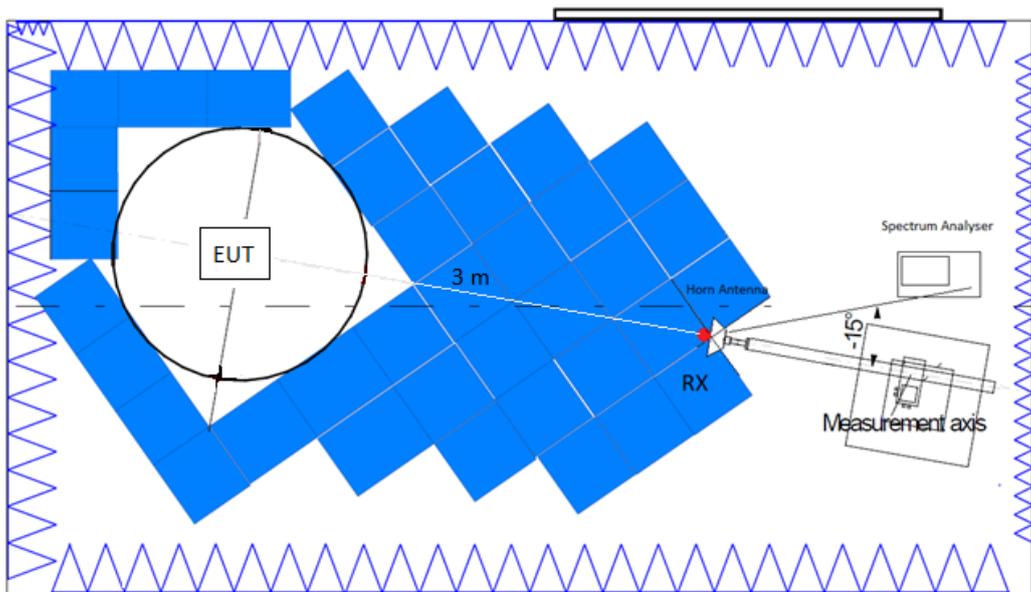
Measurements were made in both horizontal and vertical planes of polarization.

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.

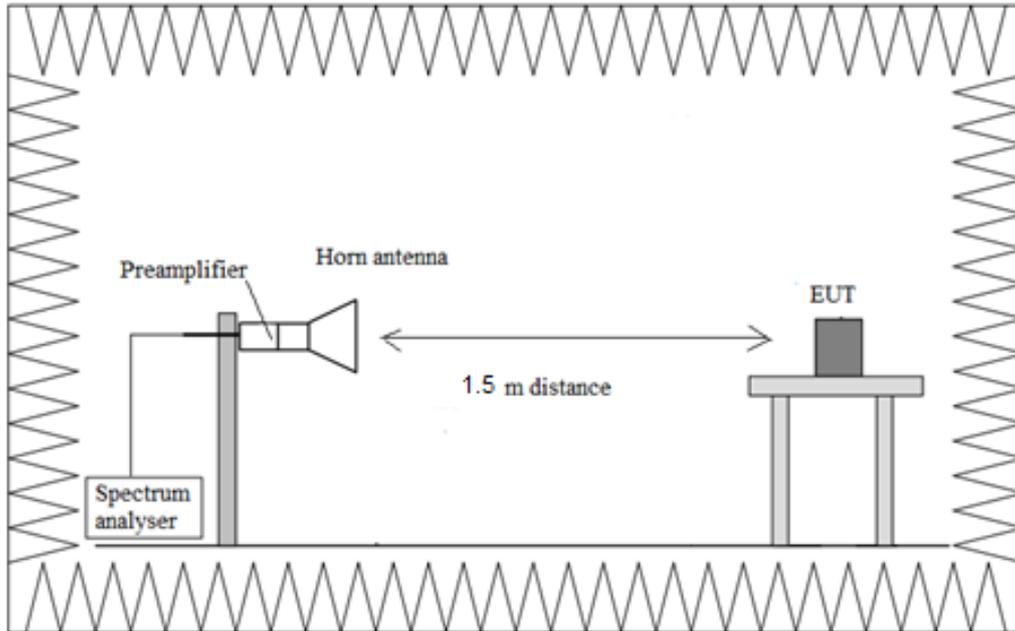
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup  $f > 17$  GHz:



## TEST CASES DETAILS

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### FCC 47 CFR Part 15.247 / RSS-247

### RSS-247 5.5 / FCC 15.247 (d) [RSE] Emission limitations radiated (Transmitter)

#### **Limits**

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 ( $\mu\text{V}/\text{m}$ ) | Field strength ( $\text{dB}\mu\text{V}/\text{m}$ ) | 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                        |
| Above 960             | 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.

Modulation: BTLE 5.0 (GFSK 2 Mbit/s)

**Results**

| Freq (MHz) | Freq Rng (GHz) | Unwanted Freq (MHz) | Unwanted Lvl (dBµV/m) | PoI | Detector |
|------------|----------------|---------------------|-----------------------|-----|----------|
| 2402.00000 | [0.03, 1]      | 33.880              | 26.64                 | V   | PK       |
| 2402.00000 |                | 33.880              | 23.20                 | V   | QP       |
| 2402.00000 |                | 47.411              | 27.64                 | V   | PK       |
| 2402.00000 |                | 47.411              | 25.39                 | V   | QP       |
| 2402.00000 |                | 54.202              | 31.50                 | V   | PK       |
| 2402.00000 |                | 54.202              | 30.34                 | V   | QP       |
| 2402.00000 |                | 60.992              | 30.98                 | V   | PK       |
| 2402.00000 |                | 60.992              | 28.09                 | V   | QP       |
| 2402.00000 |                | 67.781              | 39.35                 | V   | PK       |
| 2402.00000 |                | 67.781              | 38.39                 | V   | QP       |
| 2402.00000 |                | 74.572              | 40.00                 | V   | PK       |
| 2402.00000 |                | 74.572              | 39.09                 | V   | QP       |
| 2402.00000 |                | 88.151              | 39.03                 | V   | PK       |
| 2402.00000 |                | 88.151              | 38.52                 | V   | QP       |
| 2402.00000 |                | 94.893              | 30.87                 | V   | PK       |
| 2402.00000 |                | 94.893              | 29.68                 | V   | QP       |
| 2440.00000 | [0.03, 1]      | 33.880              | 33.17                 | V   | PK       |
| 2440.00000 |                | 33.880              | 31.55                 | V   | QP       |
| 2440.00000 |                | 47.460              | 30.60                 | V   | PK       |
| 2440.00000 |                | 47.460              | 29.28                 | V   | QP       |
| 2440.00000 |                | 54.202              | 32.18                 | V   | PK       |
| 2440.00000 |                | 54.202              | 30.48                 | V   | QP       |
| 2440.00000 |                | 60.992              | 30.95                 | V   | PK       |
| 2440.00000 |                | 60.992              | 27.88                 | V   | QP       |
| 2440.00000 |                | 67.781              | 39.65                 | V   | PK       |
| 2440.00000 |                | 67.781              | 38.47                 | V   | QP       |
| 2440.00000 |                | 74.572              | 40.17                 | V   | PK       |
| 2440.00000 |                | 74.572              | 39.32                 | V   | QP       |
| 2440.00000 |                | 88.103              | 37.30                 | V   | PK       |
| 2440.00000 |                | 88.103              | 36.54                 | V   | QP       |
| 2440.00000 |                | 94.893              | 31.20                 | V   | PK       |
| 2440.00000 |                | 94.893              | 30.25                 | V   | QP       |
| 2480.00000 | [0.03, 1]      | 33.880              | 32.82                 | V   | PK       |
| 2480.00000 |                | 33.880              | 30.98                 | V   | QP       |
| 2480.00000 |                | 40.670              | 29.45                 | V   | PK       |
| 2480.00000 |                | 40.670              | 27.64                 | V   | QP       |

| Freq (MHz) | Freq Rng (GHz) | Unwanted Freq (MHz) | Unwanted Lvl (dBµV/m) | Pol | Detector |
|------------|----------------|---------------------|-----------------------|-----|----------|
| 2480.00000 |                | 47.460              | 30.66                 | V   | PK       |
| 2480.00000 |                | 47.460              | 29.20                 | V   | QP       |
| 2480.00000 |                | 54.202              | 32.04                 | V   | PK       |
| 2480.00000 |                | 54.202              | 30.61                 | V   | QP       |
| 2480.00000 |                | 60.992              | 31.50                 | V   | PK       |
| 2480.00000 |                | 60.992              | 28.42                 | V   | QP       |
| 2480.00000 |                | 67.781              | 38.73                 | V   | PK       |
| 2480.00000 |                | 67.781              | 37.87                 | V   | QP       |
| 2480.00000 |                | 74.572              | 40.20                 | V   | PK       |
| 2480.00000 |                | 74.572              | 39.33                 | V   | QP       |
| 2480.00000 |                | 88.103              | 36.71                 | V   | PK       |
| 2480.00000 |                | 88.103              | 36.08                 | V   | QP       |
| 2480.00000 |                | 94.893              | 31.07                 | V   | PK       |
| 2480.00000 |                | 94.893              | 30.06                 | V   | QP       |
| 2440.00000 | [3, 17]        | 15028.000           | 59.97                 | H   | PK       |
| 2440.00000 |                | 15028.000           | 49.45                 | H   | AVG      |

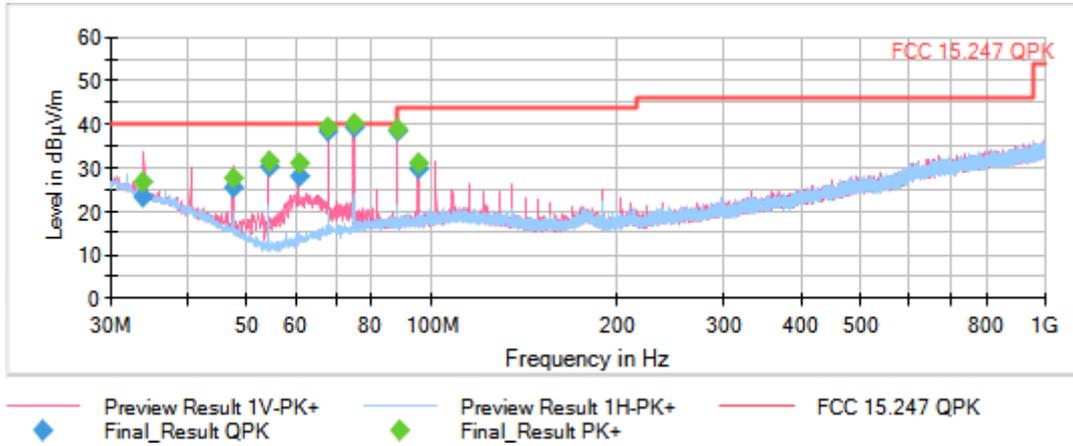
**Verdict**

Pass

**Attachments**

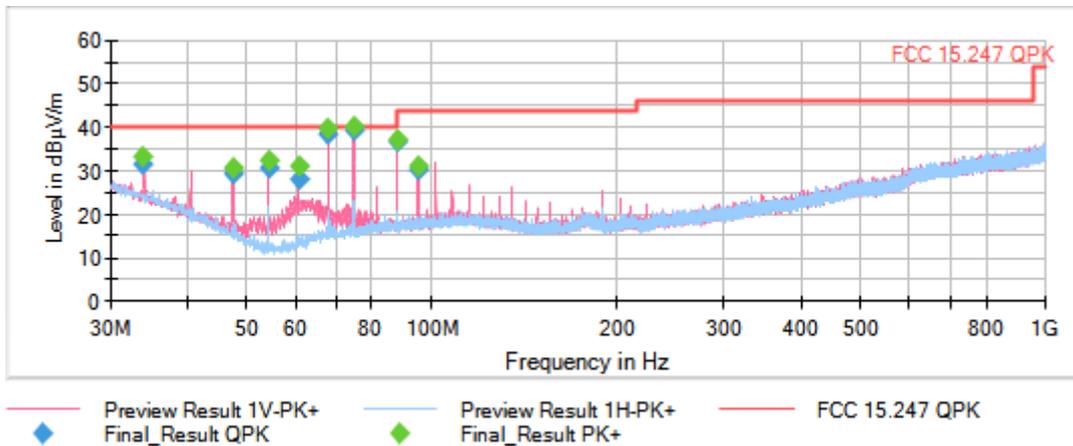
**Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [0.03, 1], Measurement Point = 1**

Images:



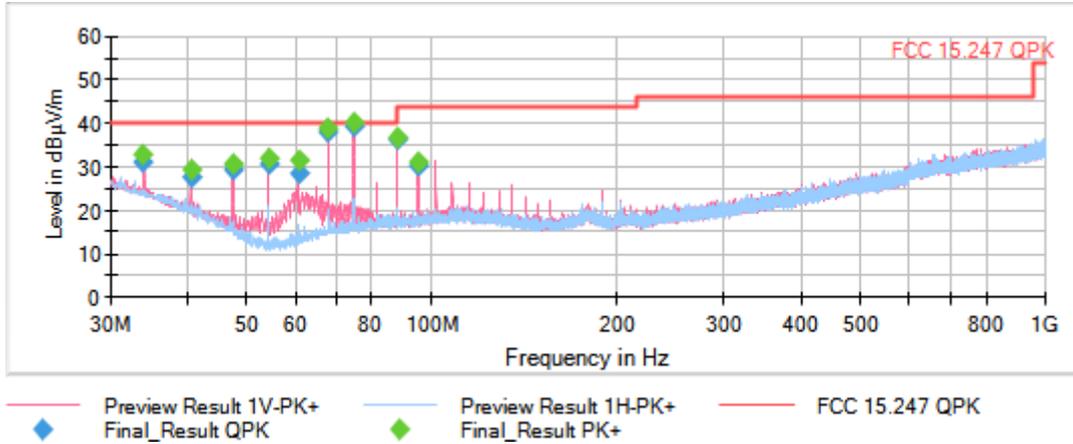
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Images:



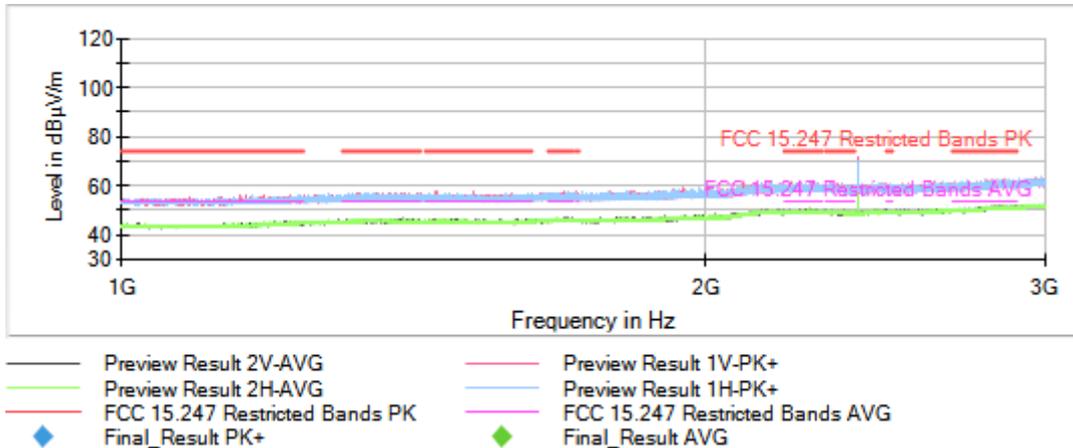
Operation Band MHz = [2400, 2483.5], Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [0.03, 1], Measurement Point = 1

Images:

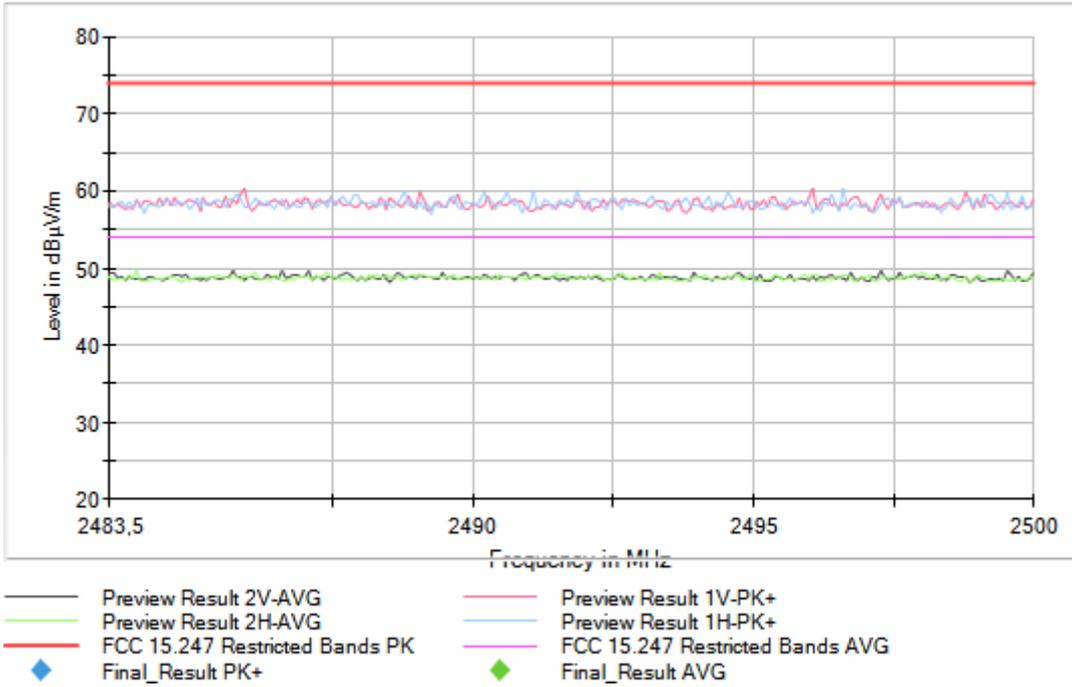


Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [1, 3], Measurement Point = 1

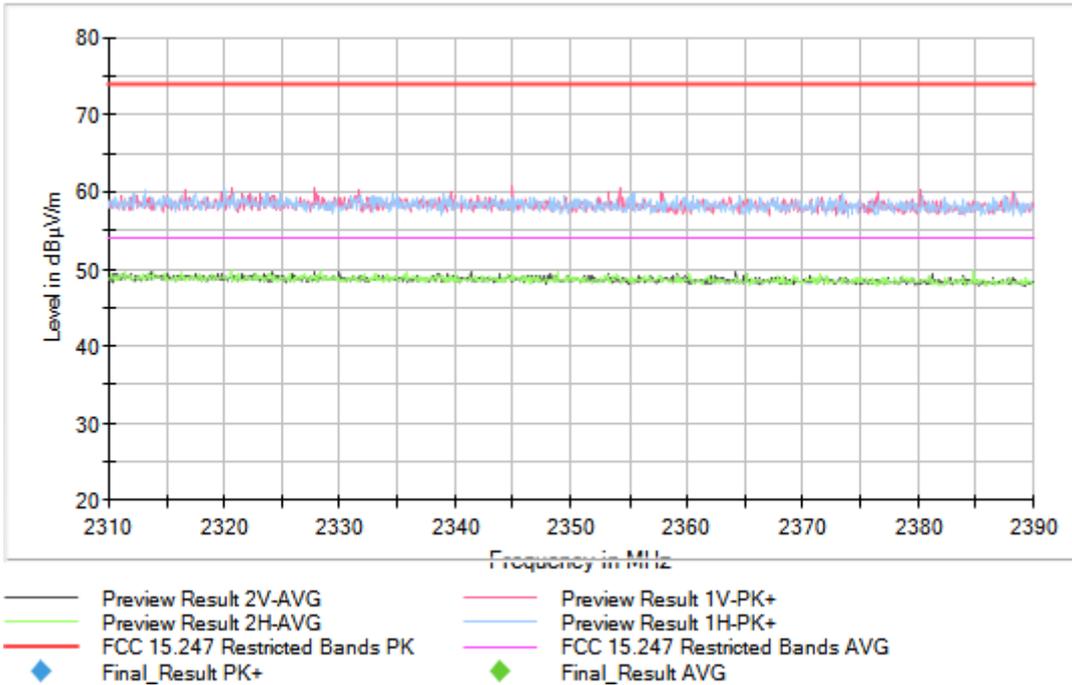
Images:



Full Spectrum

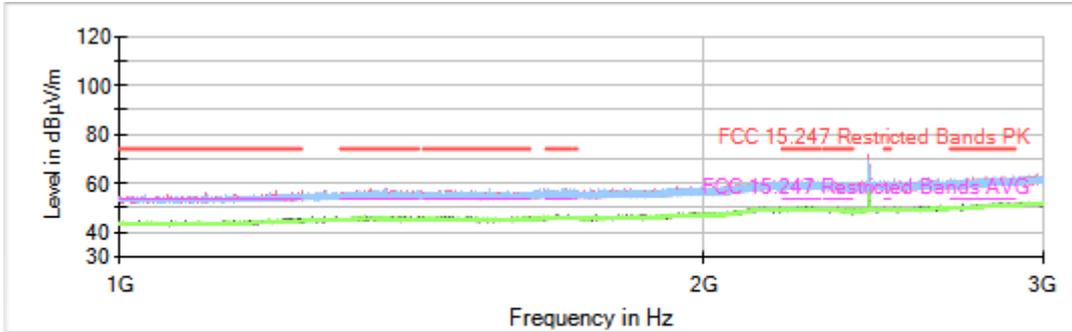


Full Spectrum



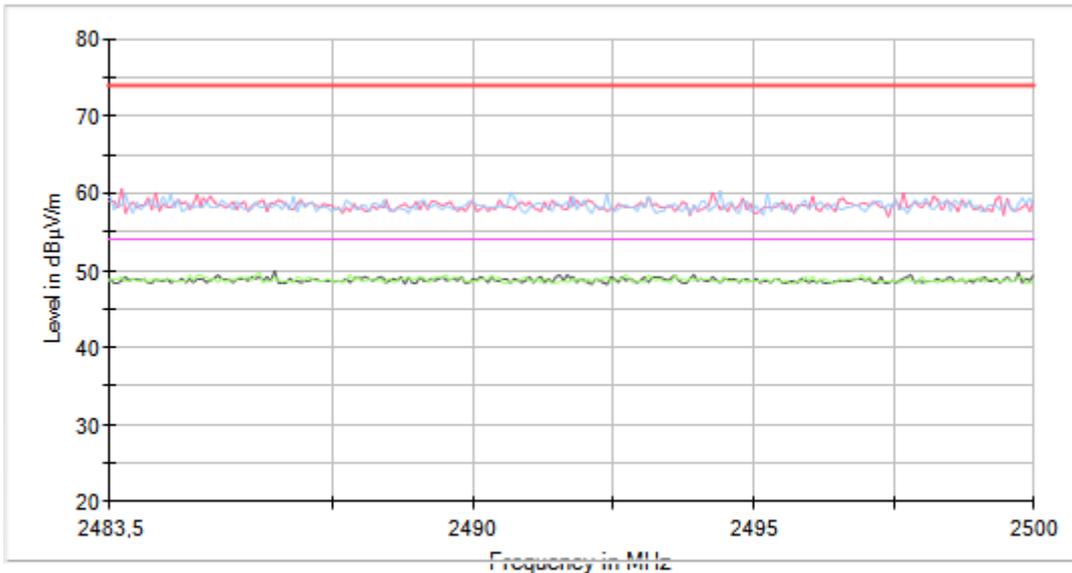
**Operation Band MHz = [2400, 2483.5], Frequency MHz = 2440.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [1, 3], Measurement Point = 1**

Images:



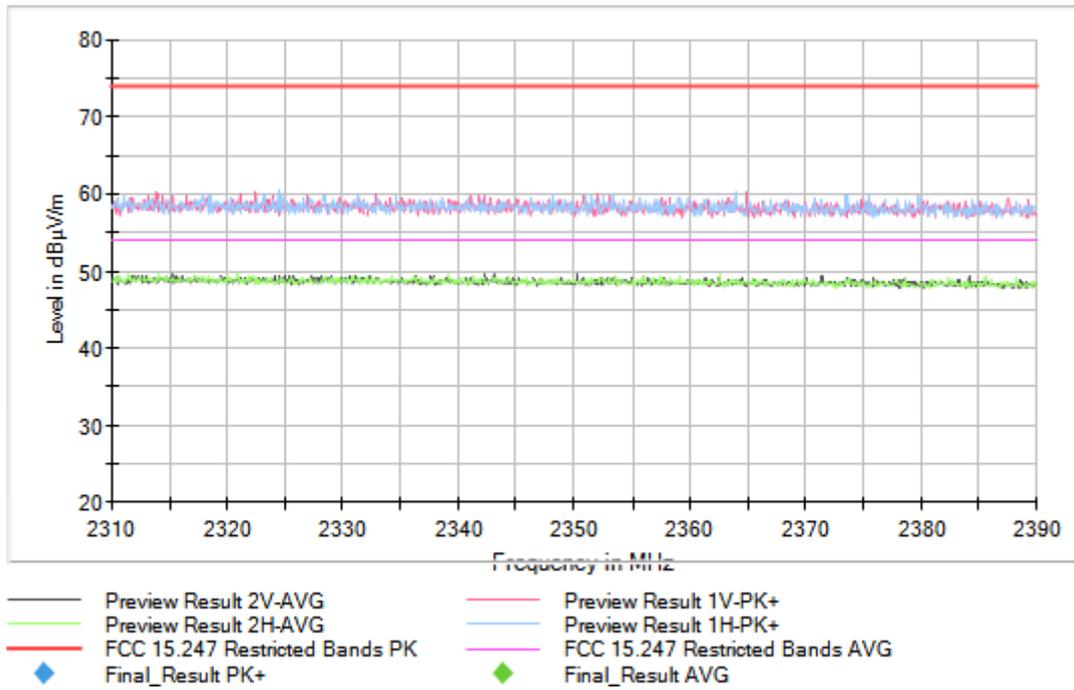
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands PK
- FCC 15.247 Restricted Bands AVG
- ◆ Final\_Result PK+
- ◆ Final\_Result AVG

Full Spectrum



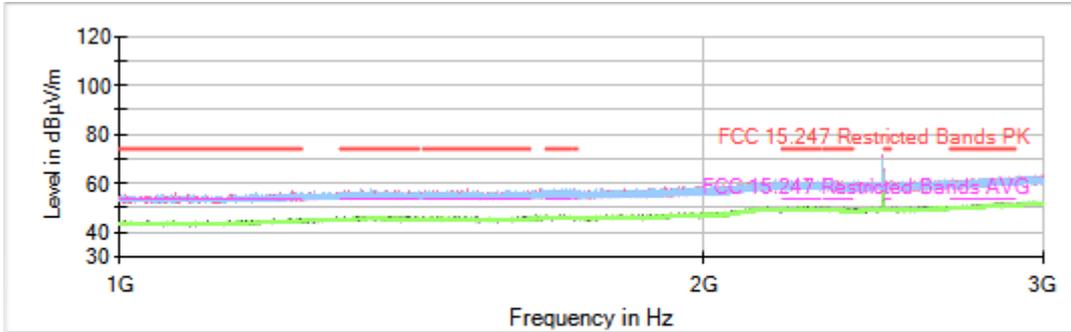
- Preview Result 2V-AVG
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- FCC 15.247 Restricted Bands PK
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- ◆ Final\_Result PK+
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### Full Spectrum



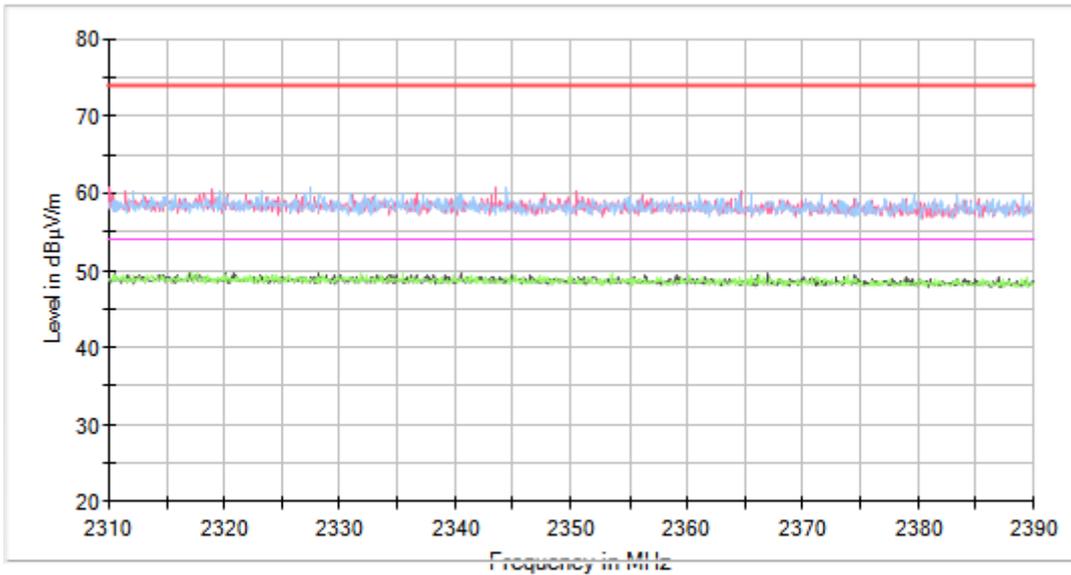
**Operation Band MHz = [2400, 2483.5], Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [1, 3], Measurement Point = 1**

Images:



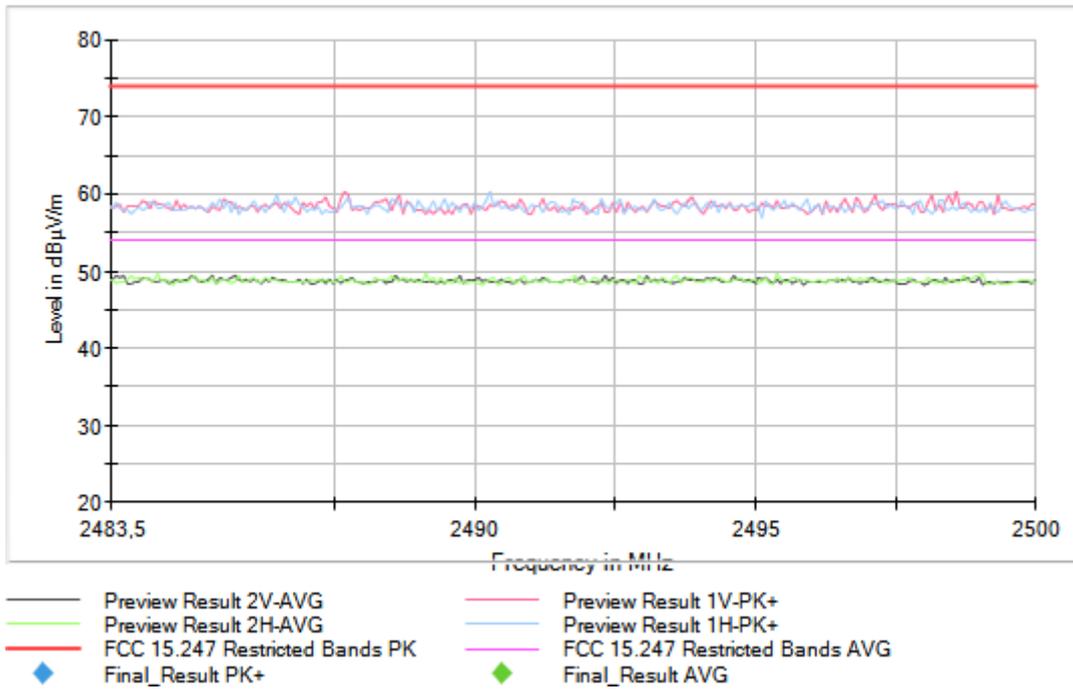
- Preview Result 2V-AVG
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- ◆ Final\_Result PK+
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- FCC 15.247 Restricted Bands PK
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Full Spectrum



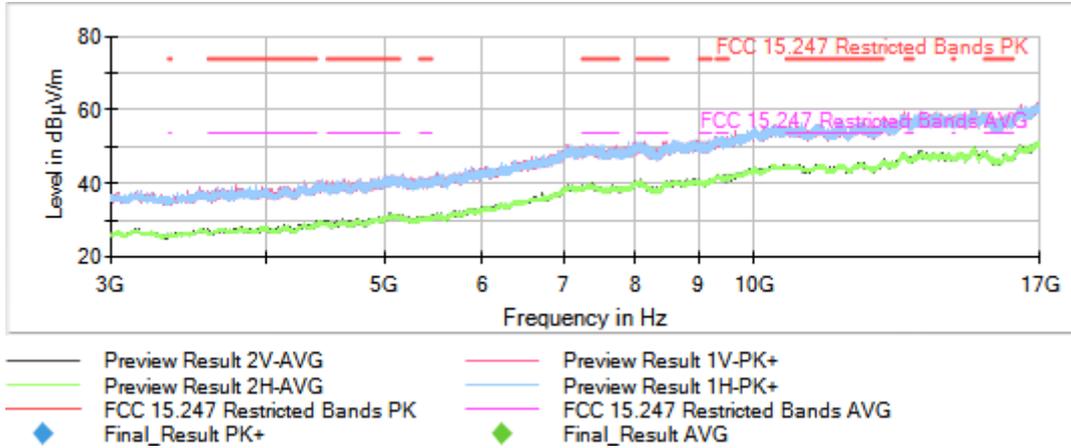
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### Full Spectrum



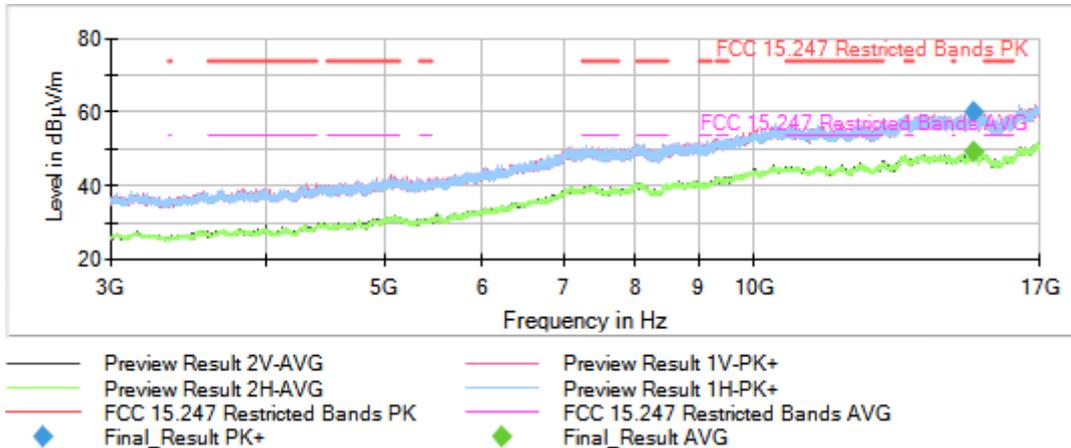
Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [3, 17], Measurement Point = 1

Images:



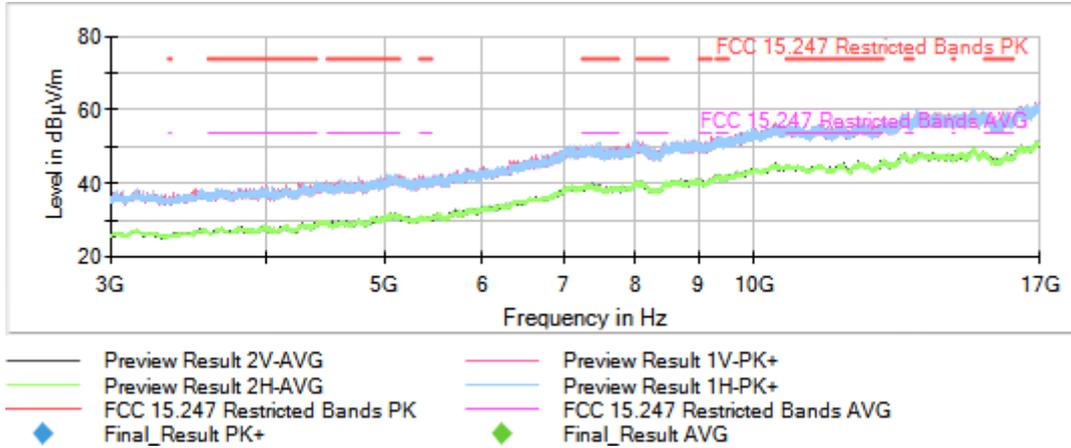
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Images:



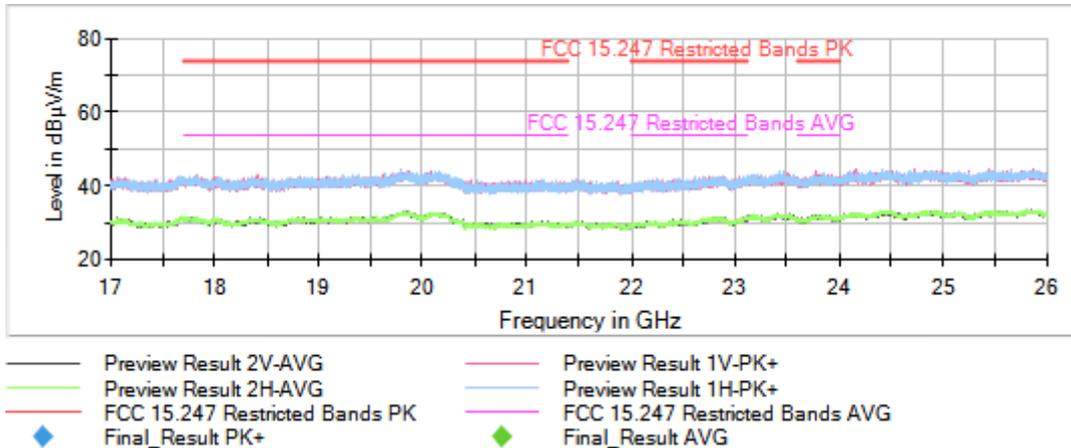
**Operation Band MHz = [2400, 2483.5], Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [3, 17], Measurement Point = 1**

Images:



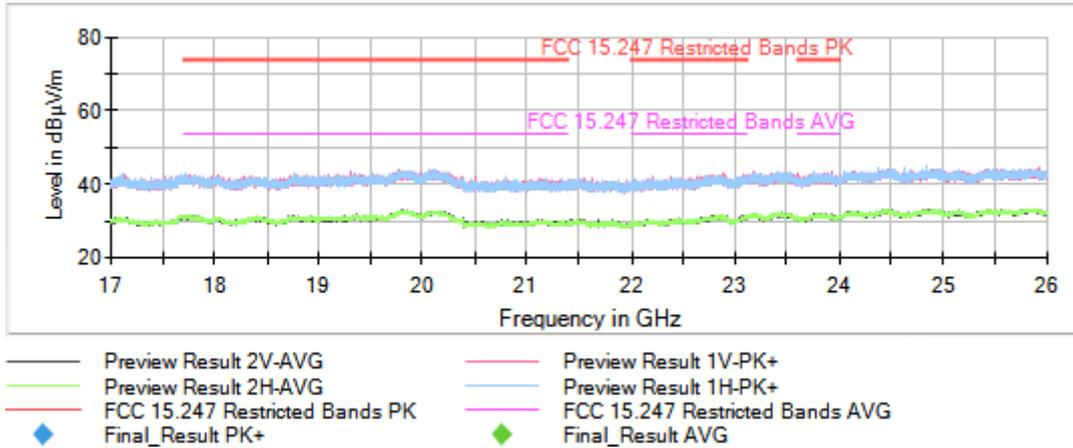
**Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [17, 26], Measurement Point = 1**

Images:



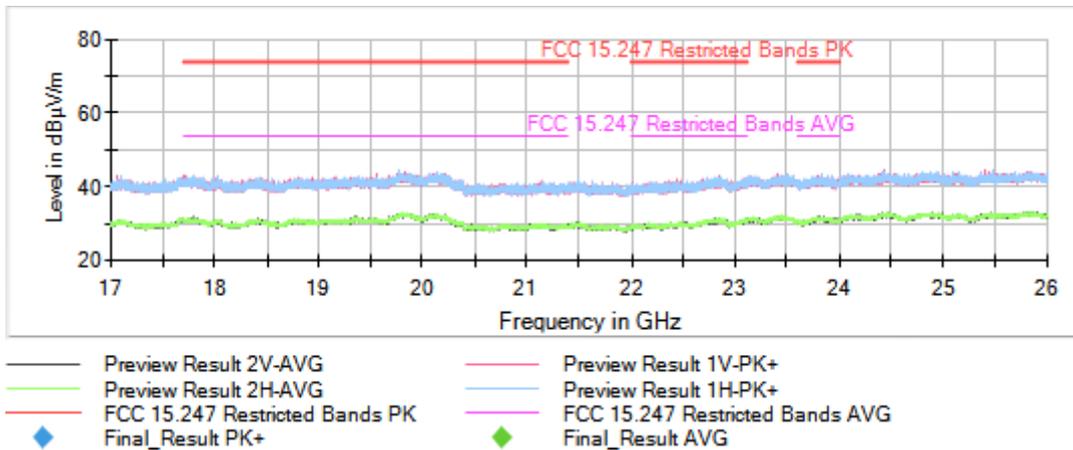
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Images:



Operation Band MHz = [2400, 2483.5], Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [17, 26], Measurement Point = 1

Images:



Modulation: BTLE 5.0 (GFSK 1 Mbit/s)

**Results**

| Freq (MHz) | Freq Rng (GHz) | Unwanted Freq (MHz) | Unwanted Lvl (dBµV/m) | Pol | Detector |
|------------|----------------|---------------------|-----------------------|-----|----------|
| 2402.00000 | [0.03, 1]      | 33.880              | 33.92                 | V   | PK       |
| 2402.00000 |                | 33.880              | 31.74                 | V   | QP       |
| 2402.00000 |                | 54.250              | 37.13                 | V   | PK       |
| 2402.00000 |                | 54.250              | 35.38                 | V   | QP       |
| 2402.00000 |                | 67.781              | 38.61                 | V   | PK       |
| 2402.00000 |                | 67.781              | 37.38                 | V   | QP       |
| 2402.00000 |                | 74.572              | 35.22                 | V   | PK       |
| 2402.00000 |                | 74.572              | 34.06                 | V   | QP       |
| 2402.00000 |                | 88.103              | 38.62                 | V   | PK       |
| 2402.00000 |                | 88.103              | 38.00                 | V   | QP       |
| 2402.00000 |                | 94.893              | 34.26                 | V   | PK       |
| 2402.00000 |                | 94.893              | 33.48                 | V   | QP       |
| 2440.00000 | [0.03, 1]      | 101.683             | 34.16                 | V   | PK       |
| 2440.00000 |                | 101.683             | 33.11                 | V   | QP       |
| 2440.00000 |                | 33.880              | 33.56                 | V   | PK       |
| 2440.00000 |                | 33.880              | 31.31                 | V   | QP       |
| 2440.00000 |                | 47.460              | 31.01                 | V   | PK       |
| 2440.00000 |                | 47.460              | 28.67                 | V   | QP       |
| 2440.00000 |                | 54.202              | 34.91                 | V   | PK       |
| 2440.00000 |                | 54.202              | 32.72                 | V   | QP       |
| 2440.00000 |                | 67.781              | 38.15                 | V   | PK       |
| 2440.00000 |                | 67.781              | 37.12                 | V   | QP       |
| 2440.00000 |                | 74.523              | 30.48                 | V   | PK       |
| 2440.00000 |                | 74.523              | 28.46                 | V   | QP       |
| 2440.00000 |                | 88.103              | 38.68                 | V   | PK       |
| 2440.00000 |                | 88.103              | 38.11                 | V   | QP       |
| 2440.00000 |                | 94.893              | 34.17                 | V   | PK       |
| 2440.00000 |                | 94.893              | 33.31                 | V   | QP       |
| 2480.00000 | [0.03, 1]      | 101.683             | 33.97                 | V   | PK       |
| 2480.00000 |                | 101.683             | 32.98                 | V   | QP       |
| 2480.00000 |                | 33.880              | 32.77                 | V   | PK       |
| 2480.00000 |                | 33.880              | 30.20                 | V   | QP       |
| 2480.00000 |                | 47.411              | 28.06                 | V   | PK       |
| 2480.00000 |                | 47.411              | 25.13                 | V   | QP       |
| 2480.00000 |                | 54.202              | 35.23                 | V   | PK       |
| 2480.00000 |                | 54.202              | 33.13                 | V   | QP       |
| 2480.00000 |                | 67.781              | 38.57                 | V   | PK       |

| Freq (MHz) | Freq Rng (GHz) | Unwanted Freq (MHz) | Unwanted Lvl (dBµV/m) | Pol | Detector |
|------------|----------------|---------------------|-----------------------|-----|----------|
| 2480.00000 |                | 67.781              | 37.60                 | V   | QP       |
| 2480.00000 |                | 74.572              | 35.55                 | V   | PK       |
| 2480.00000 |                | 74.572              | 34.36                 | V   | QP       |
| 2480.00000 |                | 88.103              | 38.49                 | V   | PK       |
| 2480.00000 |                | 88.103              | 37.87                 | V   | QP       |
| 2480.00000 |                | 94.893              | 34.31                 | V   | PK       |
| 2480.00000 |                | 94.893              | 33.54                 | V   | QP       |

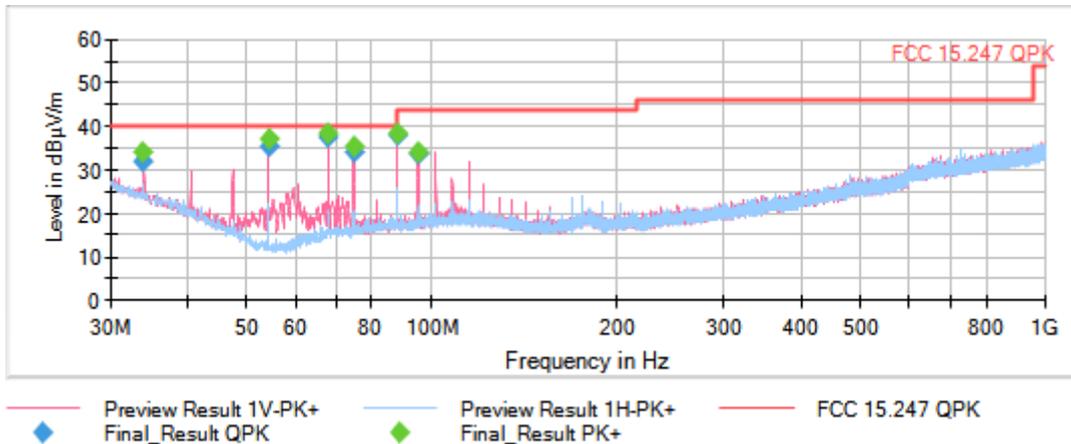
**Verdict**

Pass

**Attachments**

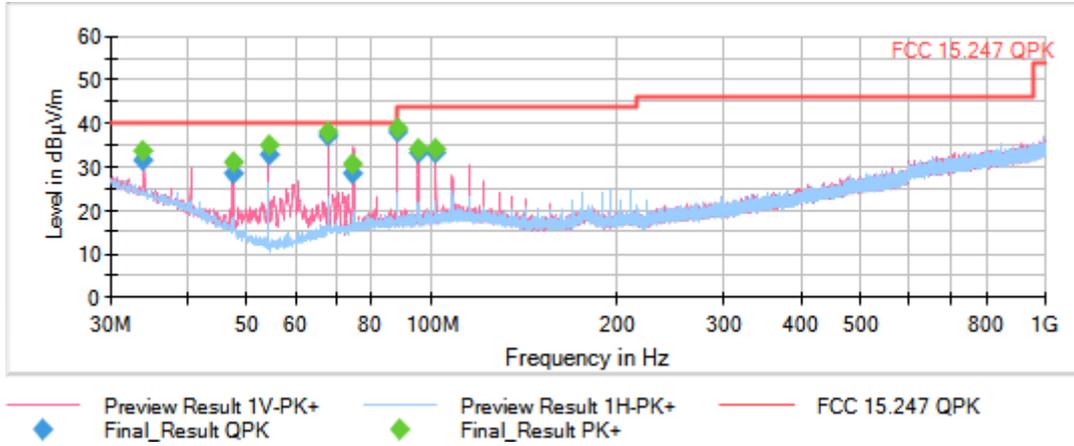
Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [0.03, 1], Measurement Point = 1

**Images:**



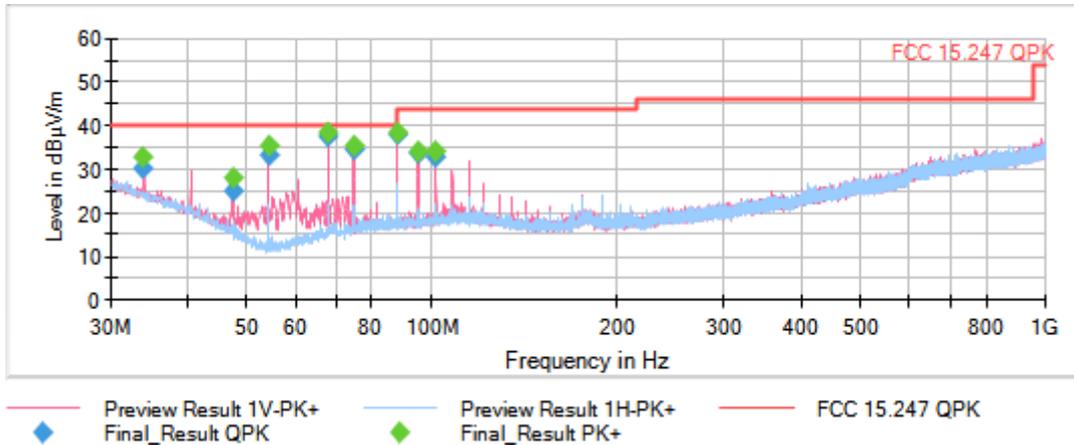
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Images:



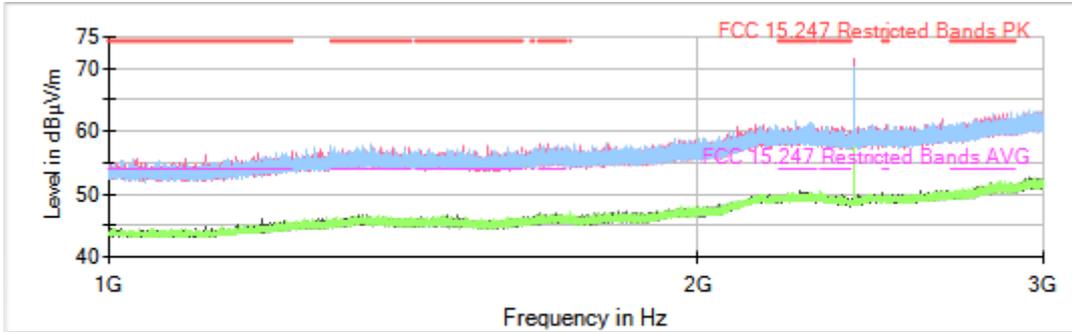
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Images:



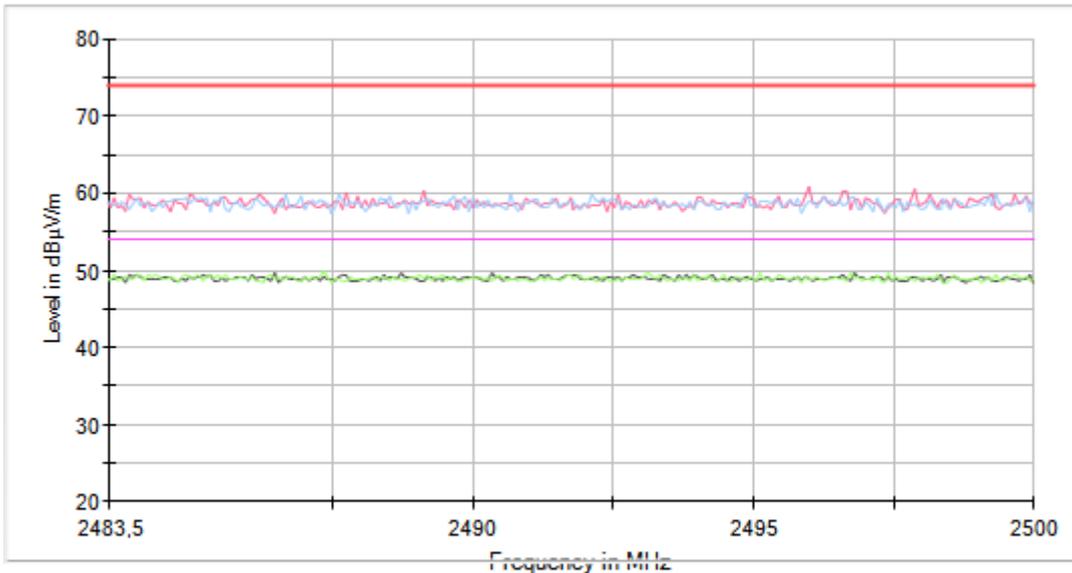
Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [1, 3], Measurement Point = 1

Images:



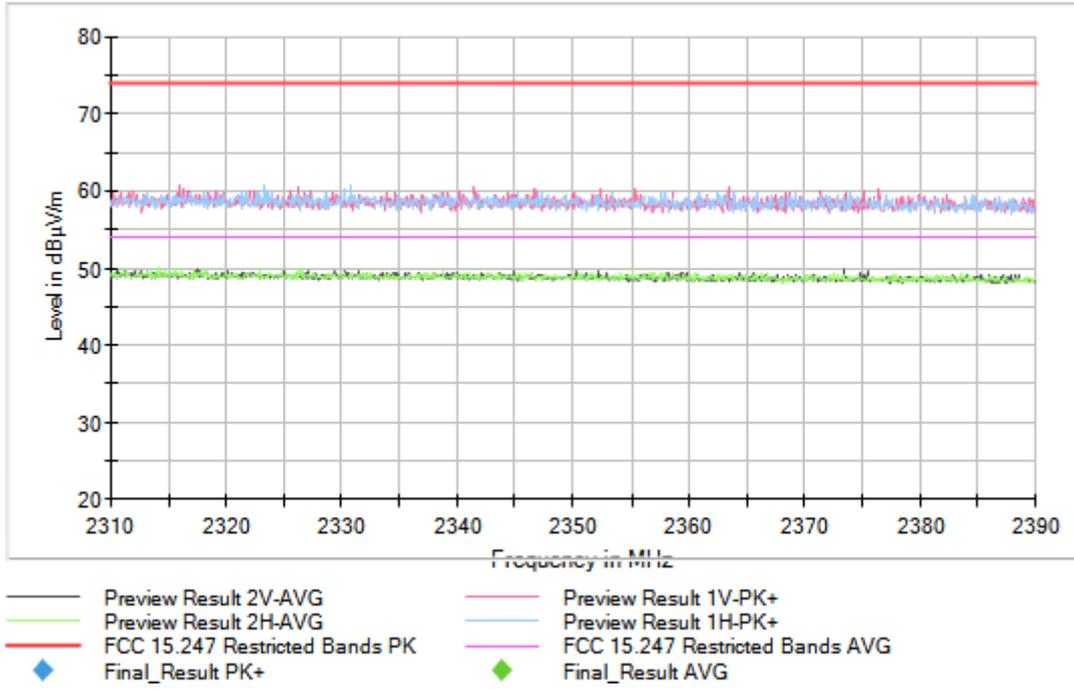
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- ◆ Final\_Result PK+
- ◆ Final\_Result AVG
- FCC 15.247 Restricted Bands PK
- FCC 15.247 Restricted Bands AVG

Full Spectrum



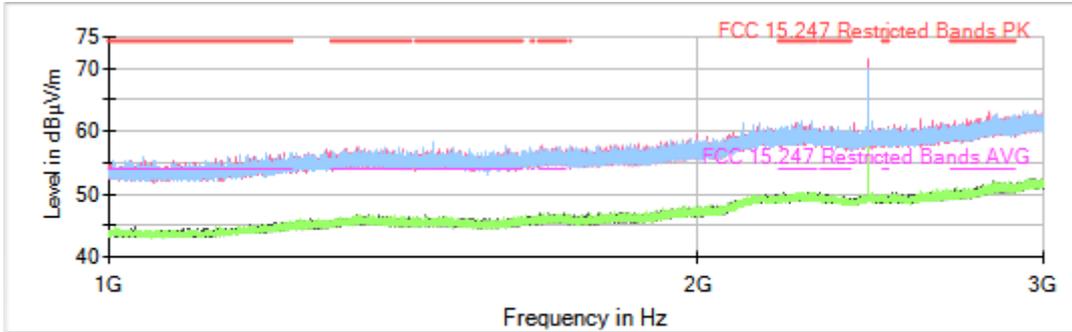
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Full Spectrum



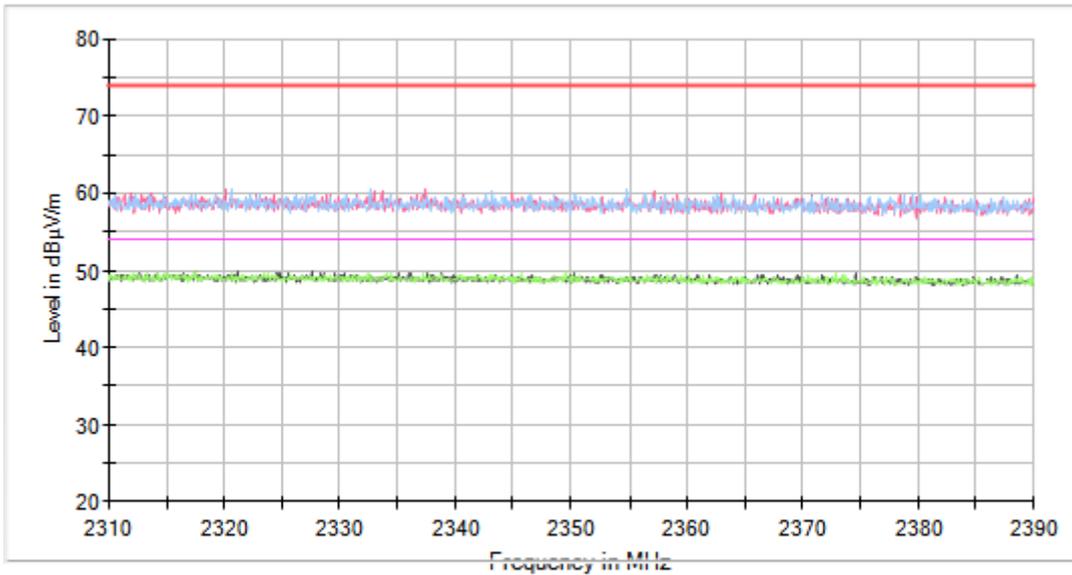
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Images:



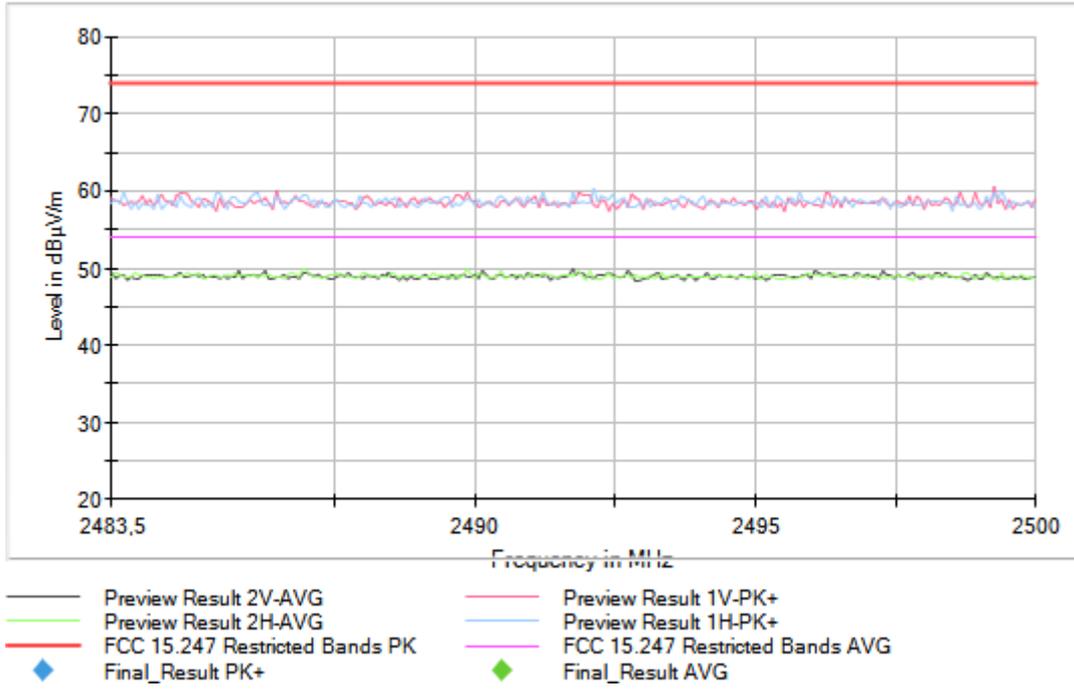
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- ◆ Final\_Result PK+
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Full Spectrum



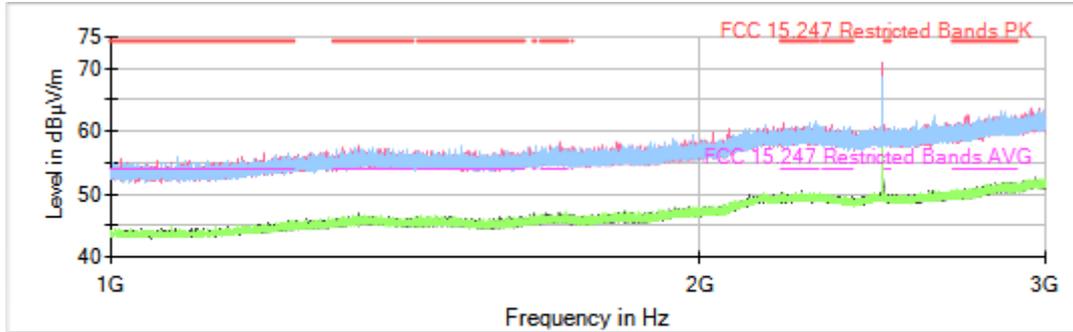
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Full Spectrum

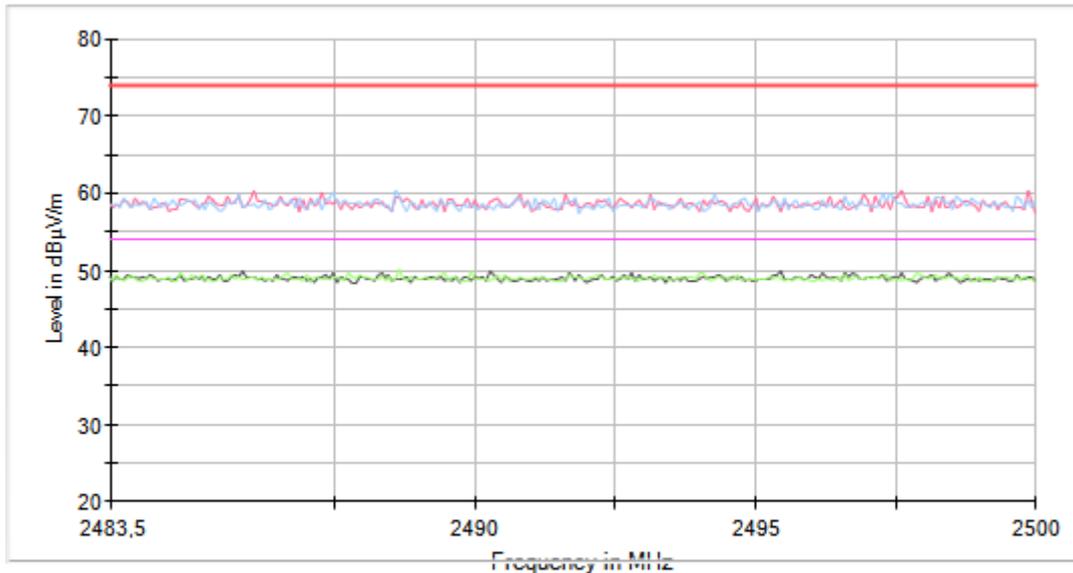


**Operation Band MHz = [2400, 2483.5], Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [1, 3], Measurement Point = 1**

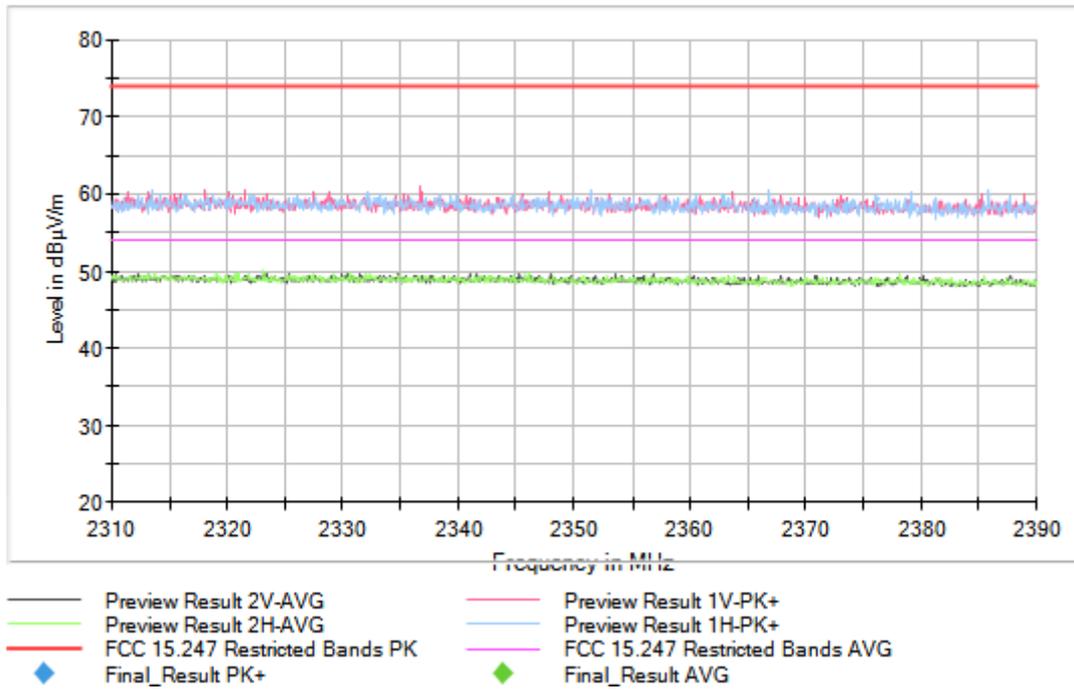
Images:



Full Spectrum

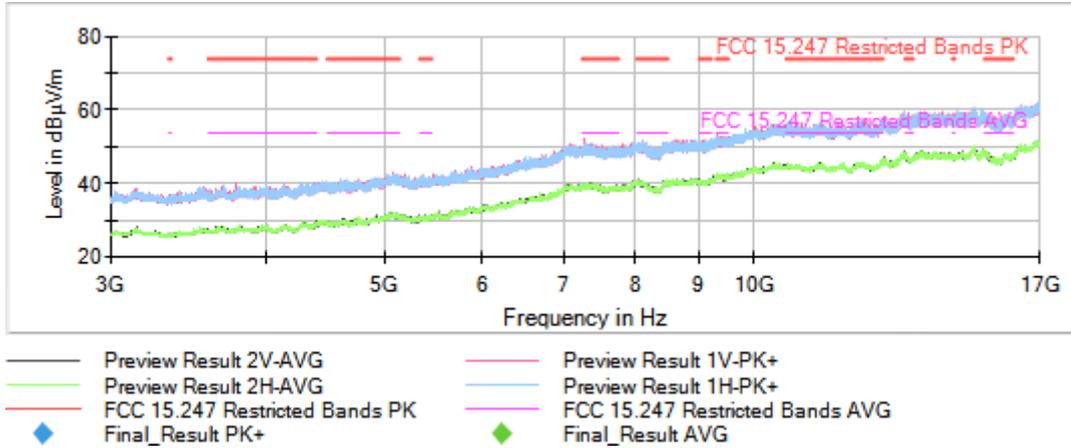


### Full Spectrum



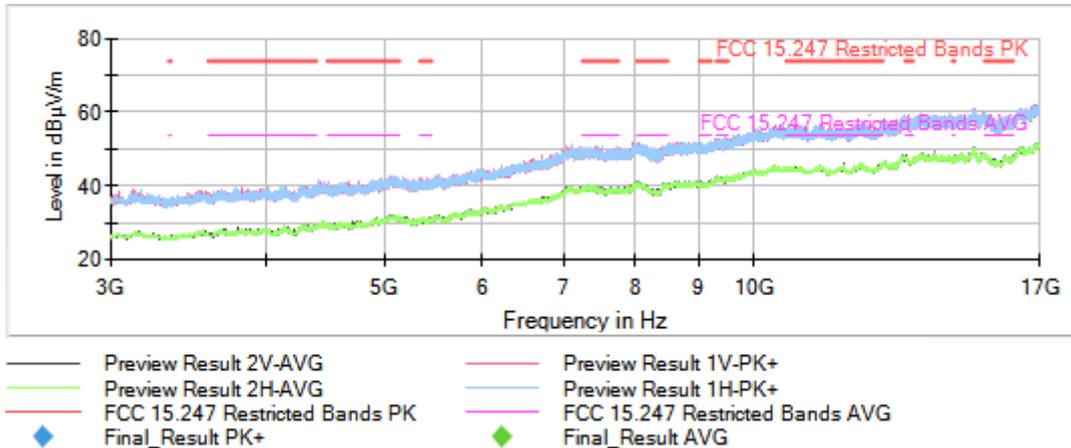
**Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [3, 17], Measurement Point = 1**

Images:



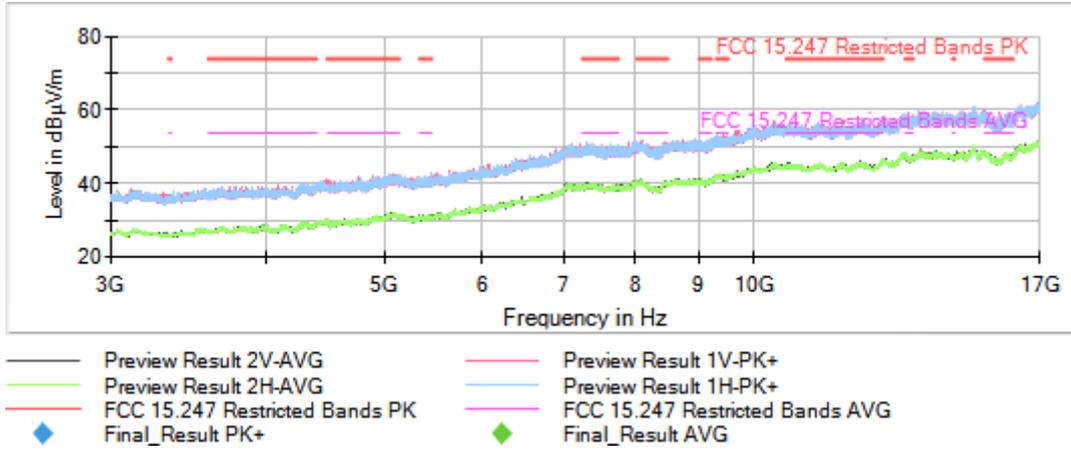
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Images:



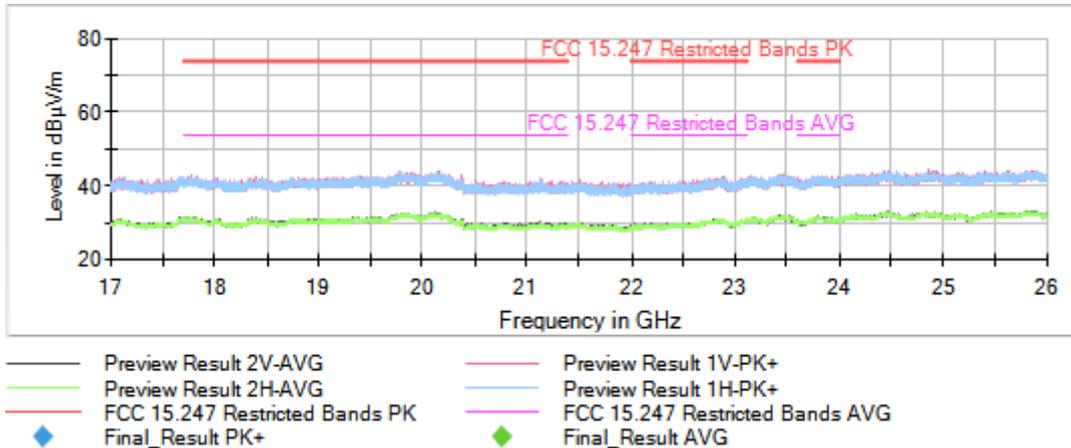
**Operation Band MHz = [2400, 2483.5], Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [3, 17], Measurement Point = 1**

Images:



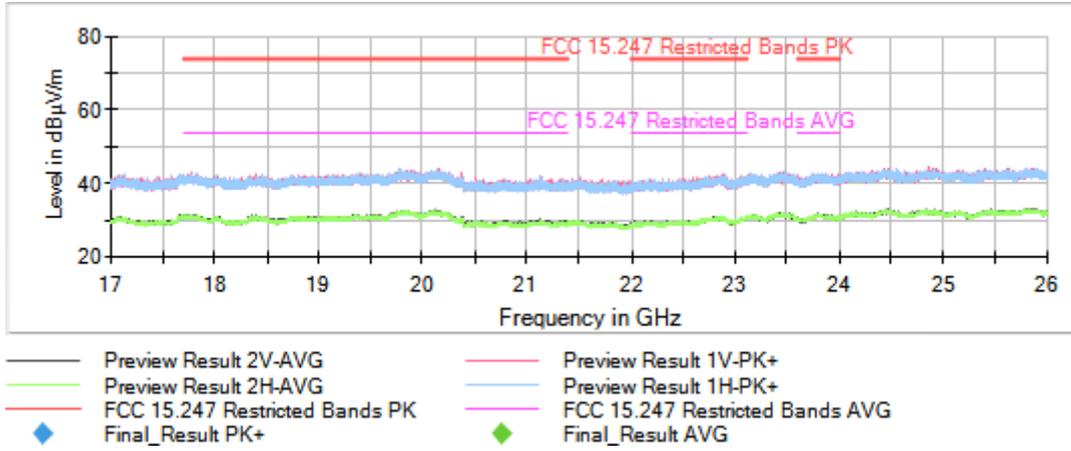
**Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [17, 26], Measurement Point = 1**

Images:



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Images:



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