

ISED CABid: ES1909

Lab. Company Number: 4621A

Test Report No:

77830RRF.005A1

## Partial Test Report

USA FCC Part 15.247, 15.209

CANADA RSS-247, RSS-Gen

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (*) Identification of item tested         | e-bike user interface controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| (*) Trademark                             | Bosch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| (*) Model and /or type reference          | BRC3800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| (*) Other identification of the product   | FCC ID: 2AWRC-BRC3800<br>IC: 26294-BRC3800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| (*) Features                              | Bluetooth Low Energy<br>HW version: 5.1.0<br>SW version: BRC3800_EMC_2.0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applicant                                 | Robert Bosch GmbH<br>Markwiesenstraße 58<br>72770 Reutlingen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test method requested, standard           | USA FCC Part 15.247 (10-1-21 Edition): Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz.<br>USA FCC Part 15.209 (10-1-21 Edition): Radiated emission limits; general requirements.<br>CANADA RSS-247 Issue 3 (August 2023).<br>CANADA RSS-Gen Issue 5 amendment 2 (February 2021).<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. |
| Approved by (name / position & signature) | José Manuel Gómez Galván<br>EMC Consumer & RF<br>Lab. Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Date of issue                             | 2024-09-10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Report template No                        | FDT08_24<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                   |
| Mode          | MIMO Mode                    |
| Pol           | Polarization                 |
| Port          | Active Port                  |
| 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 S.A.U. is an FCC-recognized accredited testing laboratory with appropriate scope of accreditation that covers the performed tests in this report.

DEKRA Testing and Certification S.A.U. is an ISED-recognized accredited testing laboratory, CABid: ES1909, Company Number: 4621A, 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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## General conditions

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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 e-bike user interface controller with BLE.

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 | 77830C_26.1    | eBike Display | BCR3800 | 43826-0589-73-057-00000 | 2024-03-19        | Element Under Test |
| S/01 | 77830C_9.1     | Power Cable   | --      | --                      | 2024-03-19        | 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> |     |     |
|                                    | USB service port (USB-C interface for service)                       | <3m                            | [ ]                  | [ ]      | [ ]                               |     |     |
|                                    | System cable connector (Supply+CAN FD) connected to ebike            | <3m                            | [X]                  | [ ]      | [ ]                               |     |     |
|                                    |                                                                      |                                | [ ]                  | [ ]      | [ ]                               |     |     |
|                                    |                                                                      |                                | [ ]                  | [ ]      | [ ]                               |     |     |
|                                    |                                                                      |                                | [ ]                  | [ ]      | [ ]                               |     |     |
|                                    |                                                                      |                                | [ ]                  | [ ]      | [ ]                               |     |     |
|                                    | Supplementary information to the ports..... :                        |                                |                      |          |                                   |     |     |
| Rated power supply .....           | Voltage and Frequency                                                |                                | Reference poles      |          |                                   |     |     |
|                                    |                                                                      |                                | L1                   | L2       | L3                                | N   | PE  |
|                                    | [ ]                                                                  | AC:                            | [ ]                  | [ ]      | [ ]                               | [ ] | [ ] |
|                                    | [ ]                                                                  | AC:                            | [ ]                  | [ ]      | [ ]                               | [ ] | [ ] |
|                                    | [X]                                                                  | DC: USB port, nom. 5VDC        |                      |          |                                   |     |     |
|                                    | [X]                                                                  | DC: System cable, nom. 13,5VDC |                      |          |                                   |     |     |
| Rated Power .....                  | System cable: max. 2,7W (13,5V/0,2A) / USB port: max. 2,5W (5V/0,5A) |                                |                      |          |                                   |     |     |
| Clock frequencies.....             | 160 MHz, 80 MHz, 53,3 MHz, 48 MHz, 40 MHz, 2 MHz, 1,1 MHz            |                                |                      |          |                                   |     |     |
| Other parameters .....             |                                                                      |                                |                      |          |                                   |     |     |
| Software version .....             | BRC3800_EMC_2.0.0                                                    |                                |                      |          |                                   |     |     |
| Hardware version .....             | 5.1.0                                                                |                                |                      |          |                                   |     |     |
| Dimensions in cm (W x H x D) ..... | 85 mm x 54 mm x 60 mm                                                |                                |                      |          |                                   |     |     |
| Mounting position .....            | [ ]                                                                  | Table top equipment            |                      |          |                                   |     |     |
|                                    | [ ]                                                                  | Wall/Ceiling mounted equipment |                      |          |                                   |     |     |
|                                    | [ ]                                                                  | Floor standing equipment       |                      |          |                                   |     |     |

|                                               |                                         |                          |           |              |
|-----------------------------------------------|-----------------------------------------|--------------------------|-----------|--------------|
|                                               | <input type="checkbox"/> [ ]            | Hand-held equipment      |           |              |
|                                               | <input checked="" type="checkbox"/> [X] | Other: Bicycle handlebar |           |              |
| 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

Robert Bosch GmbH  
Markwiesenstraße 58. 72770 Reutlingen, Germany

## Testing period and place

|               |                                        |
|---------------|----------------------------------------|
| Test Location | DEKRA Testing and Certification S.A.U. |
| Date (start)  | 2024-03-22                             |
| Date (finish) | 2024-03-23                             |

## Document history

| Report number  | Date       | Description                                                                                                                                                                                                                                                                                                          |
|----------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 77830RRF.005   | 2024-05-27 | First release.                                                                                                                                                                                                                                                                                                       |
| 77830RRF.005A1 | 2024-09-10 | First modification. <ul style="list-style-type: none"><li>Additional information on the non-applicability of some test cases is included on page 9.</li><li>On page 12, it is specified that the worst case has been selected after performing a spot check.</li></ul> This report cancels and replaces 77830RRF.005 |

## 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: Daniel Mejías Herrera and Jia Hao Luo Chen.  
Used instrumentation:

| Control No. | Equipment                           | Model        | Manufacturer                | Next Calibration |
|-------------|-------------------------------------|--------------|-----------------------------|------------------|
| 10304       | EMI TEST RECEIVER 2Hz-44GHz         | ESW44        | ROHDE AND SCHWARZ           | 2026-02-19       |
| 05862       | EMI TEST RECEIVER 9kHz-7GHz         | ESR7         | ROHDE AND SCHWARZ           | 2025-02-15       |
| 07763       | HORN ANTENNA 1-18GHz                | BBHA 9120D   | SCHWARZBECK MESS-ELEKTRONIK | 2026-01-16       |
| 06495       | HORN ANTENNA 18-40GHz               | BBHA 9170    | SCHWARZBECK                 | 2024-03-19       |
| 09968       | HYBRID BILOG ANTENNA 30MHz-6GHz     | 3142E        | ETS LINDGREN                | 2026-09-22       |
| 07862       | PRE-AMPLIFIER G>30dB 18-40GHz       | BLMA 1840-3G | BONN ELEKTRONIK             | 2025-04-02       |
| 07769       | PREAMPLIFIER 30dB 500MHz-18GHz      | BBV 9718 C   | SCHWARZBECK                 | 2025-03-13       |
| 08130       | SEMIANECHOIC ABSORBER LINED CHAMBER | P29419       | ALBATROSS                   | --               |
| 08134       | SHIELDED ROOM                       | P29419       | ALBATROSS PROJECTS GMBH     | --               |
| 04848       | SOFTWARE FOR EMC/RF TESTING         | EMC32        | ROHDE AND SCHWARZ           | --               |
| 07550       | TEMPERATURE AND HUMIDITY PROBE      | HWg-STE      | HW GROUP                    | 2025-04-24       |
| 07549       | TEMPERATURE AND HUMIDITY PROBE      | HWg-STE      | HW GROUP                    | 2025-04-24       |

## Testing verdicts

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

## Summary

### Bluetooth Low Energy 5.0 (1Mbps)

| 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/A     | (1)    |
| FCC 15.247 (b) / RSS-247 5.4. (d)                 | Maximum output power and antenna gain        | N/A     | (1)    |
| FCC 15.247 (d) / RSS-247 5.5.                     | Band-edge emissions compliance (Transmitter) | N/A     | (1)    |
| FCC 15.247 (e) / RSS-247 5.2. (b)                 | Power spectral density                       | N/A     | (1)    |
| FCC 15.247 (d) / RSS-247 5.5.                     | Emission limitations radiated (Transmitter)  | P       | --     |
| <u>Supplementary information and remarks:</u>     |                                              |         |        |
| 1. Test not requested due to C2PC partial testing |                                              |         |        |

# Appendix A: Test results. Bluetooth Low Energy (1Mbps)

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# TEST CONDITIONS

(\*): Data provided by the client.

POWER SUPPLY (\*):

Vnominal: 13.5V DC  
Type of Power Supply: 13.5V DC

ANTENNA (\*):

Type of Antenna: Integral Antenna  
Maximum Declared Antenna Gain: 5.0 dBi

TEST FREQUENCIES (\*):

| Modulation | Data rates | High Channel |
|------------|------------|--------------|
| BTLE GFSK  | 1 Mbit/s   | 2480 MHz (*) |

(\*) High Channel has been selected as worst case. After performing a spot check, it was concluded that the worst case is the Middle Channel.

During transmitter test the EUT was controlled by a SW tool provided by the client to operate in a continuous transmit mode on the modulation schemes and test channels as required.

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).

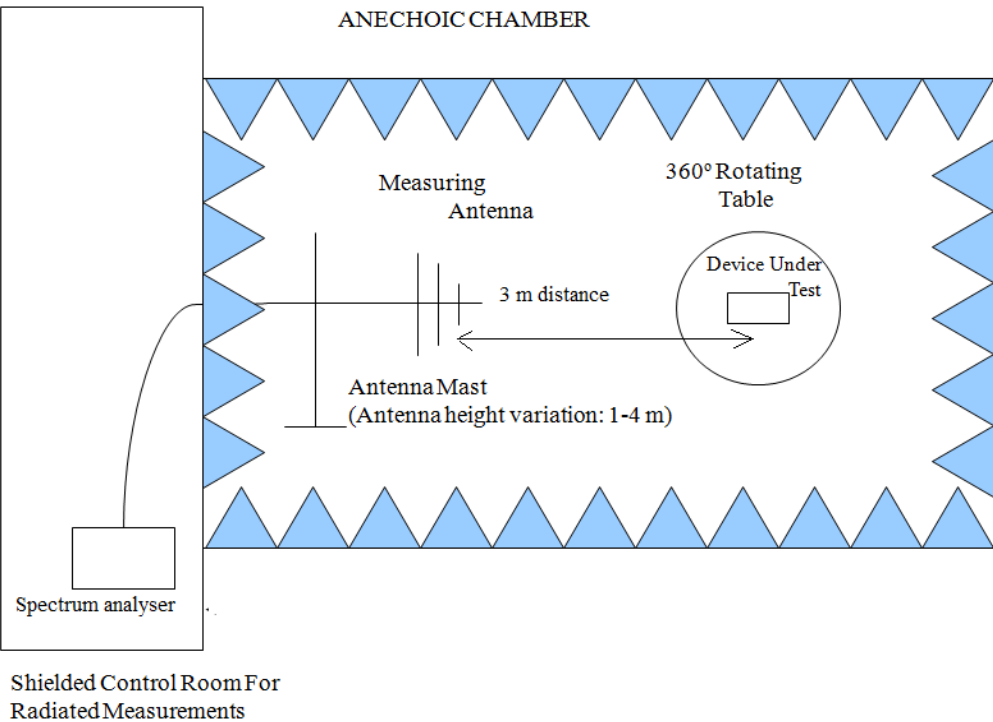
For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

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.

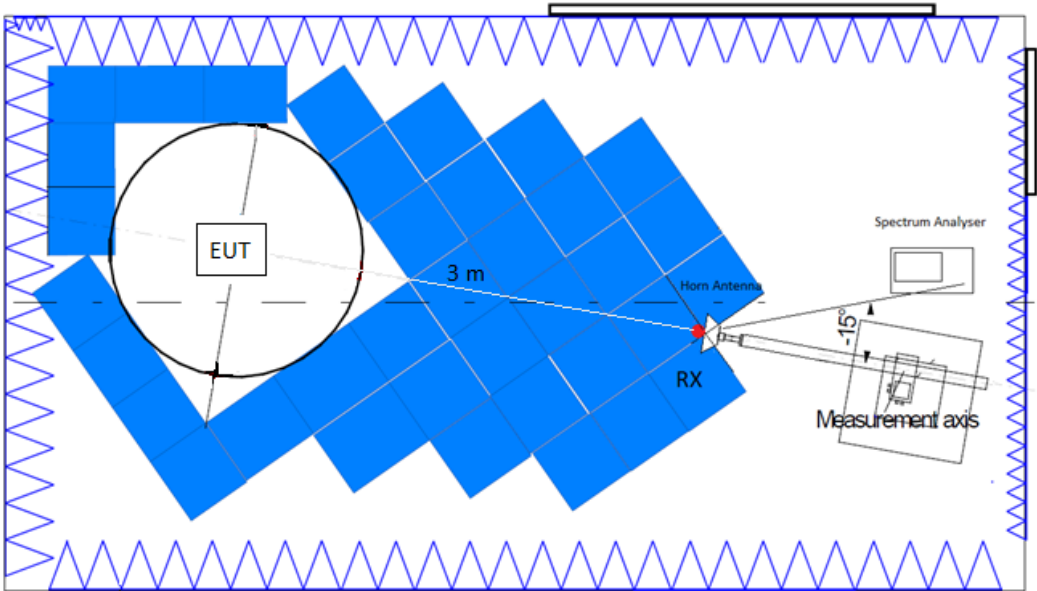
Measurements were made in both horizontal and vertical planes of polarization.

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.

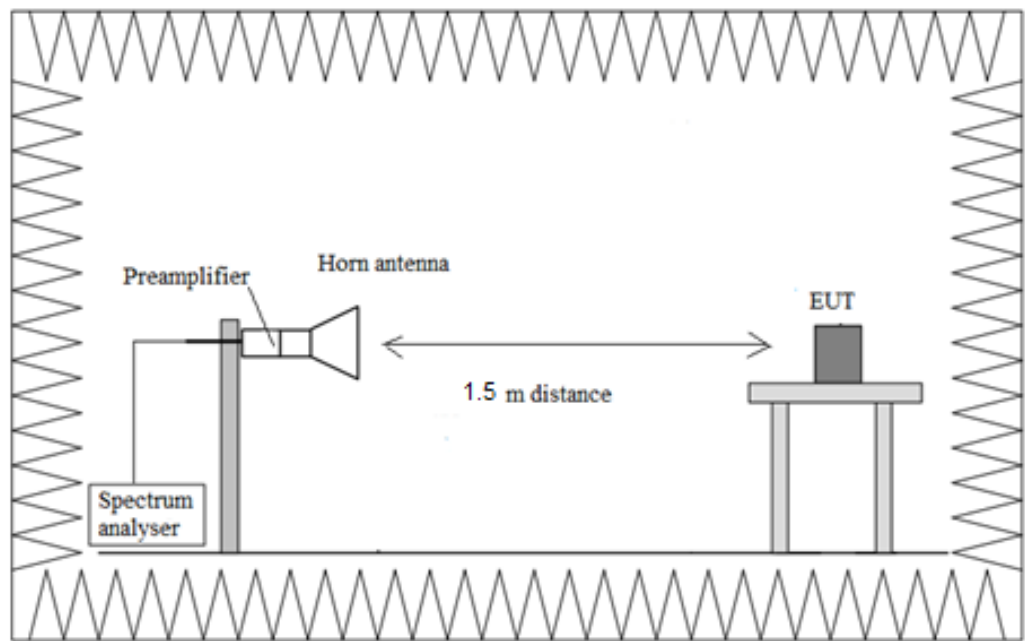
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup  $f > 17\text{ GHz}$ :



# TEST CASES DETAILS

## 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 (µV/m) | Field strength (dBµV/m) | Measurement distance (m) |
|-----------------------|-----------------------|-------------------------|--------------------------|
| 0.009-0.490           | 2400/F(kHz)           | -                       | 300                      |
| 0.490-1.705           | 24000/F(kHz)          | -                       | 30                       |
| 1.705 - 30.0          | 30                    | -                       | 30                       |
| 30 - 88               | 100                   | 40                      | 3                        |
| 88 - 216              | 150                   | 43.5                    | 3                        |
| 216 - 960             | 200                   | 46                      | 3                        |
| 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 (GFSK 1 Mbit/s)

MIMO Mode: SISO

Results

| Freq Rng (GHz) | Equipment                         | Freq (MHz) | Port | Unwanted Freq (MHz) | Unwanted Lvl (dBµV/m) | Pol | Detector |
|----------------|-----------------------------------|------------|------|---------------------|-----------------------|-----|----------|
| [0.03, 1]      | Digital Transmission System (DTS) | 2480.00000 | 1    | 119.967             | 26.41                 | V   | PK       |
|                |                                   |            |      | 119.967             | 24.52                 | V   | QP       |
|                |                                   |            |      | 440.116             | 34.24                 | V   | PK       |
|                |                                   |            |      | 440.116             | 30.39                 | V   | QP       |
|                |                                   |            |      | 600.505             | 35.56                 | V   | PK       |
|                |                                   |            |      | 600.505             | 28.51                 | V   | QP       |
|                |                                   |            |      | 720.494             | 31.69                 | H   | PK       |
|                |                                   |            |      | 720.494             | 35.26                 | H   | QP       |
| [1, 3]         |                                   | 2480.00000 |      | 2483.600            | 66.69                 | H   | PK       |
|                |                                   |            |      | 2483.600            | 42.01                 | H   | AVG      |
| [3, 17]        |                                   | 2480.00000 |      | 4959.500            | 41.92                 | H   | PK       |
|                |                                   |            |      | 4959.500            | 36.68                 | H   | AVG      |
|                |                                   |            |      | 7439.500            | 49.53                 | V   | PK       |
|                |                                   |            |      | 7439.500            | 43.88                 | V   | AVG      |

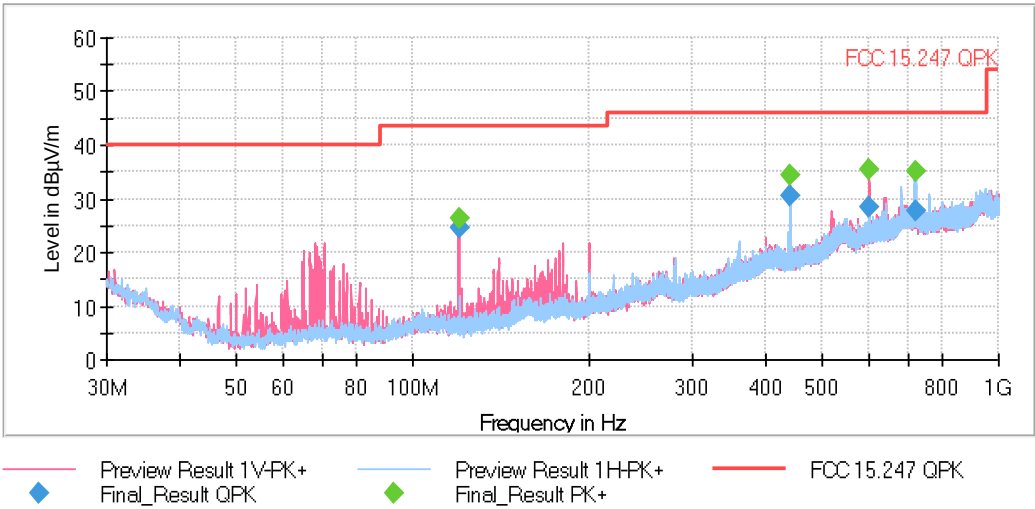
Verdict

Pass

Attachments

Frequency Range GHz = [0.03, 1]      Equipment Type = Digital Transmission System (DTS)  
Modulation = BTLE (GFSK 1 Mbit/s)      Frequency MHz = 2480.00000  
MIMO Mode = SISO      Active Port = 1

Images:



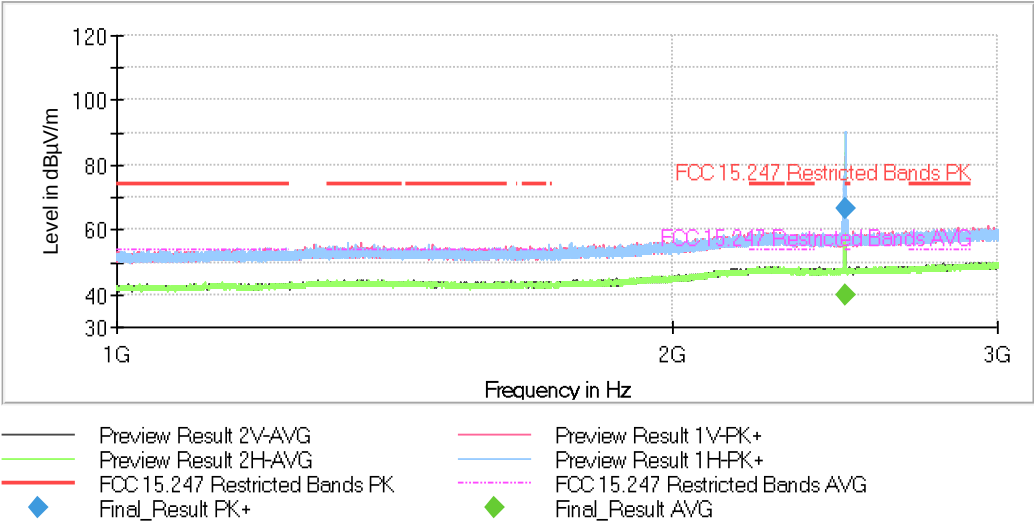
Tables:

Spectrum Analyzer Parameters

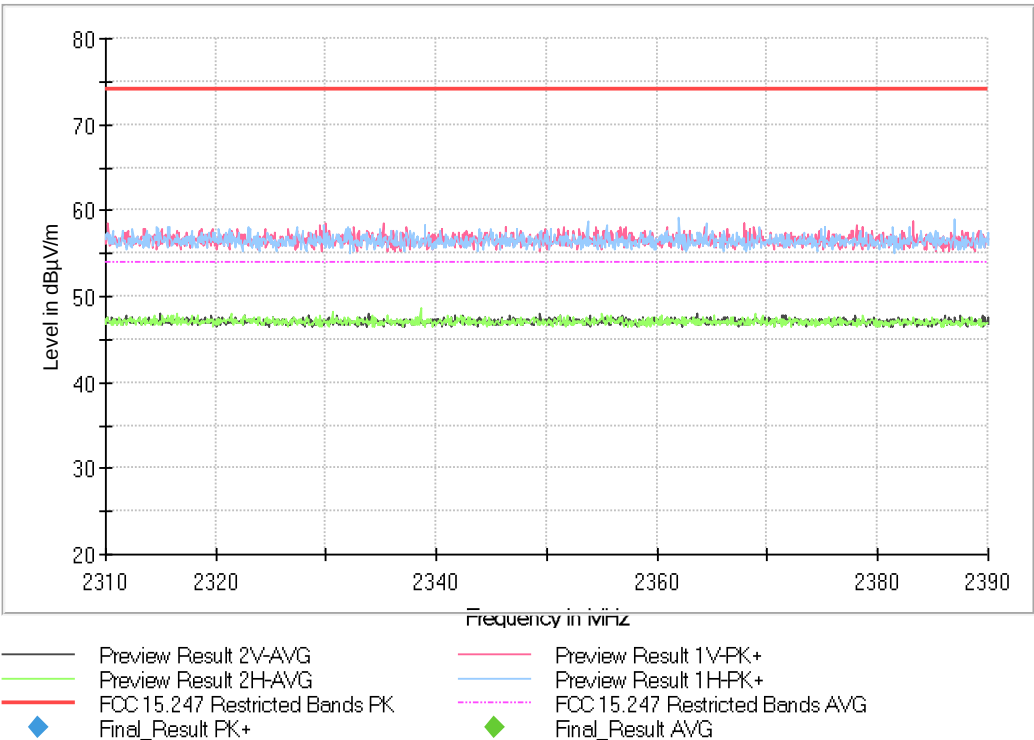
|  | Subrange          | Step Size | Detectors | Bandwidth | Sweep Time | Preamp |
|--|-------------------|-----------|-----------|-----------|------------|--------|
|  | Receiver: [ESR 7] |           |           |           |            |        |
|  | 30 MHz - 1 GHz    | 48,5 kHz  | PK+       | 100 kHz   | 1 s        | 20 dB  |

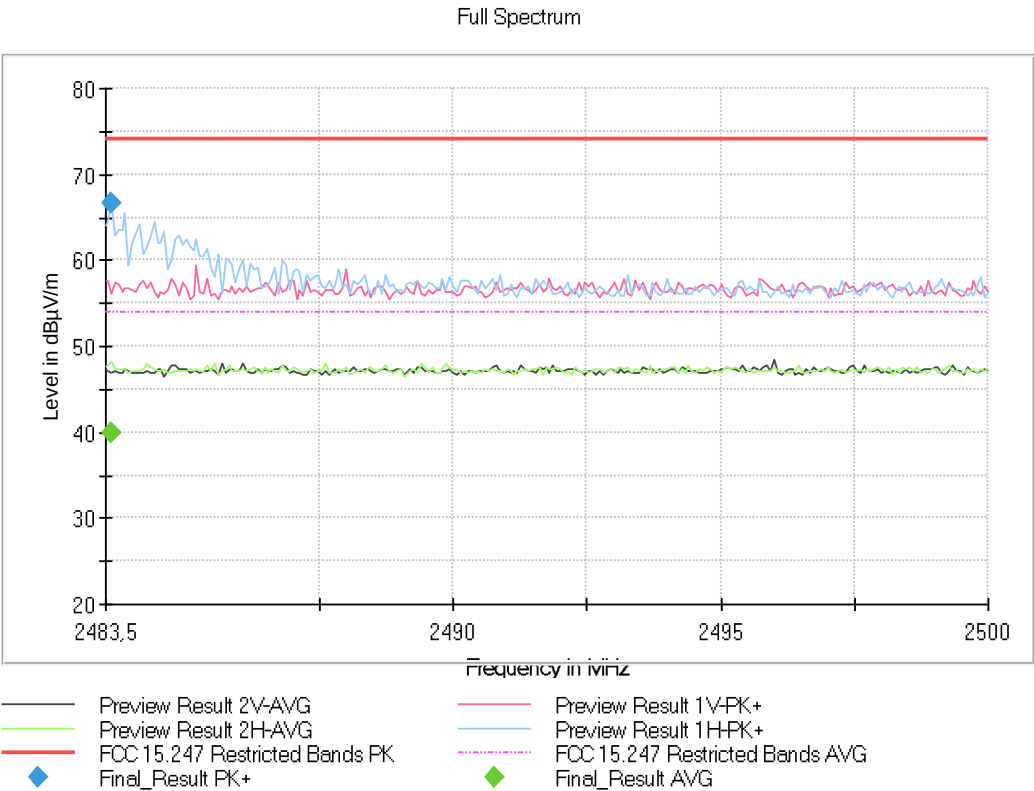
Frequency Range GHz = [1, 3]      Equipment Type = Digital Transmission System (DTS)  
Modulation = BTLE (GFSK 1 Mbit/s)      Frequency MHz = 2480.00000  
MIMO Mode = SISO      Active Port = 1

Images:



Full Spectrum



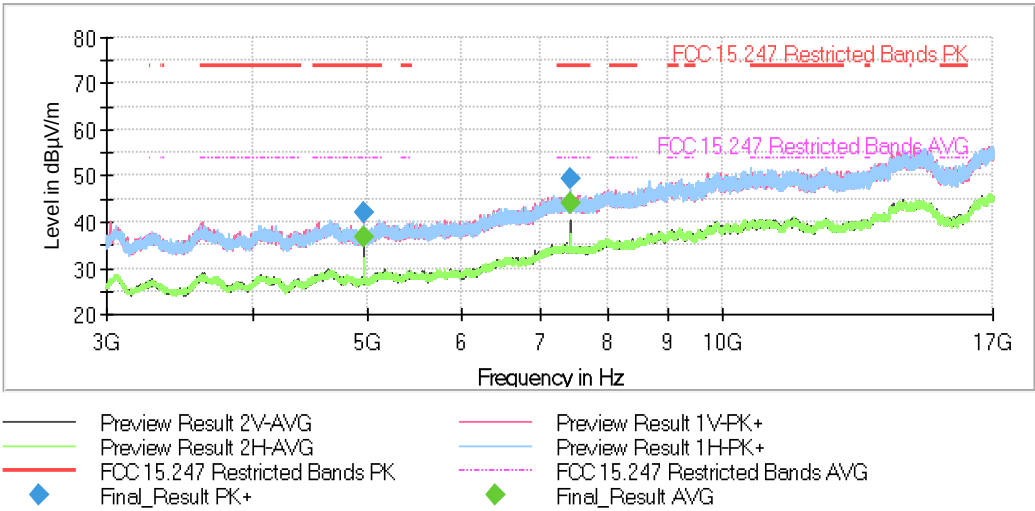


Tables:  
Spectrum Analyzer Parameters

|  | Subrange           | Step Size  | Detectors | Bandwidth | Sweep Time | Preamp |
|--|--------------------|------------|-----------|-----------|------------|--------|
|  | Receiver: [ESW 44] |            |           |           |            |        |
|  | 1 GHz - 3 GHz      | 66,667 kHz | PK+ ; AVG | 1 MHz     | 1 s        | 0 dB   |

Frequency Range GHz = [3, 17]      Equipment Type = Digital Transmission System (DTS)  
Modulation = BTLE (GFSK 1 Mbit/s)      Frequency MHz = 2480.00000  
MIMO Mode = SISO      Active Port = 1

Images:



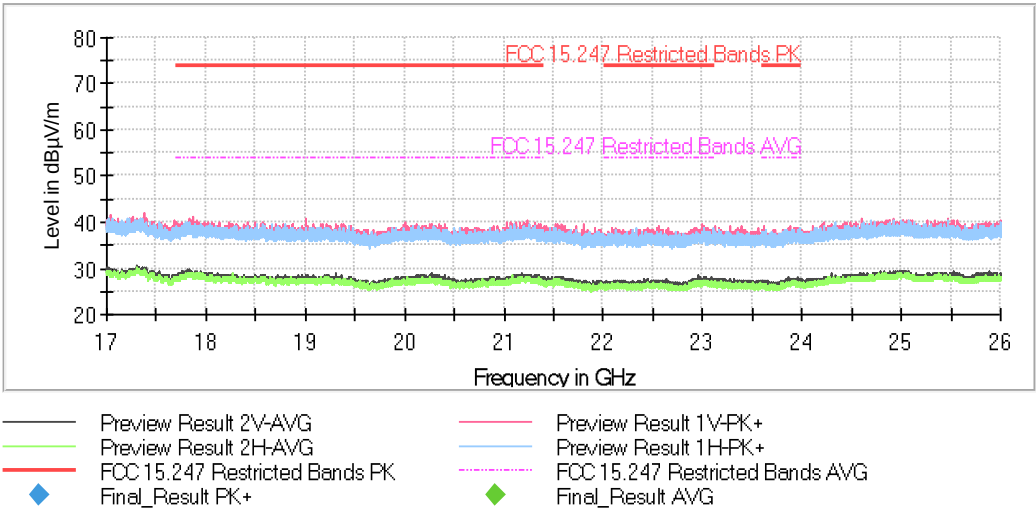
Tables:

Spectrum Analyzer Parameters

|  | Subrange           | Step Size | Detectors | Bandwidth | Sweep Time | Preamp |
|--|--------------------|-----------|-----------|-----------|------------|--------|
|  | Receiver: [ESW 44] |           |           |           |            |        |
|  | 3 GHz - 17 GHz     | 500 kHz   | PK+ ; AVG | 1 MHz     | 1 s        | 0 dB   |

Frequency Range GHz = [17, 26]      Equipment Type = Digital Transmission System (DTS)  
Modulation = BTLE (GFSK 1 Mbit/s)      Frequency MHz = 2480.00000  
MIMO Mode = SISO      Active Port = 1

Images:



Tables:

Spectrum Analyzer Parameters

|  | Subrange           | Step Size | Detectors | Bandwidth | Sweep Time | Preamp |
|--|--------------------|-----------|-----------|-----------|------------|--------|
|  | Receiver: [ESW 44] |           |           |           |            |        |
|  | 17 GHz - 26 GHz    | 500 kHz   | PK+ ; AVG | 1 MHz     | 1 s        | 0 dB   |