Report No.: SEWM2209000164RG03 Rev.: 01 Page: 1 of 60

TEST REPORT

| Application No.: | SEWM2209000164RG |
|--------------------------|--|
| Applicant: | Quectel Wireless Solutions Co., Ltd. |
| Address of Applicant: | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233 |
| Manufacturer: | Quectel Wireless Solutions Co., Ltd. |
| Address of Manufacturer: | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233 |
| EUT Description: | Multi-mode Smart LTE Module |
| Model No.: | SC206E-NA |
| Trade Mark: | Quectel |
| FCC ID: | XMR2022SC206ENA |
| Standards: | FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C |
| Date of Receipt: | 2022/05/07 |
| Date of Test: | 2022/05/10 to 2022/06/24 |
| Date of Issue: | 2022/09/07 |
| Test Result : | PASS * |

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

anta Sun

Panta Sun Wireless Laboratory Manager



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 2 of 60

1 Version

| | | Revision Record | | |
|---------|---------|------------------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2022/09/07 | | Original |

| Prepared By | Weller Liu) / Test Engineer |
|-------------|-----------------------------|
| Checked By | (Well Wei) / Reviewer |



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 3 of 60

2 Test Summary

SG

| Test Item | FCC Rule No. | Test Method | Test Result | Result |
|---|------------------|--|-------------|--------|
| Antenna Requirement | 15.203/15.247(b) | | Clause 4.1 | PASS |
| AC Power Line Conducted Emission | 15.207 | ANSI C63.10 2013 Section 6.2 | Clause 4.2 | PASS |
| Conducted Output Power | 15.247 (b)(3) | ANSI C63.10 2013 Section11.9.2.3 | Clause 4.4 | PASS |
| DTS (6 dB) Bandwidth & 99% Occupied Bandwidth | 15.247 (a)(2) | ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3 | Clause 4.5 | PASS |
| Power Spectral Density | 15.247 (e) | ANSI C63.10 2013 Section 11.10.2 | Clause 4.6 | PASS |
| Band-edge for RF Conducted Emissions | 15.247(d) | ANSI C63.10 2013 Section 11.11 | Clause 4.7 | PASS |
| RF Conducted Spurious Emissions | 15.247(d) | ANSI C63.10 2013 Section 11.11 | Clause 4.8 | PASS |
| Radiated Spurious Emissions | 15.205/15.209 | ANSI C63.10 2013 Section 11.12 | Clause 4.9 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 15.205/15.209 | ANSI C63.10 2013 Section 11.12 | Clause 4.10 | PASS |



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 4 of 60

Remark for SEWA2205000012RG03 issue on 2022/06/24:

According to customer statement, SC200E-NA has two versions of samples, full test LPDDR4X version, LPDDR3 version to check LPDDR4X worse mode, the final report only presents the worst data of the two versions.

Remark for SEWM2209000164RG03 issue on 2022/09/07:

This test report (Report No.: SEWM2209000164RG03 issue on 2022/09/07) is based on the original report with report number SEWA2205000012RG03 issue on 2022/06/24.

Review this report and original report, this report just changing FCC ID, Model No. and Software Version, Which according to the declaration letter from client.

Therefore in this report all items do not need to retest and all test data in this report are based on the previous report with report number SEWA2205000012RG03 issue on 2022/06/24.



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 5 of 60

Contents

| 1 | Versio | on | 2 |
|---|---------|--|----|
| 2 | Test S | Summary | 3 |
| 3 | Gener | al Information | 6 |
| | 3.1 | Details of Client | 6 |
| | 3.2 | Test Location | 6 |
| | 3.3 | Test Facility | 6 |
| | 3.4 | General Description of EUT | 7 |
| | 3.5 | Test Environment | 9 |
| | 3.6 | Description of Support Units | 9 |
| 4 | Test re | esults and Measurement Data | 10 |
| | 4.1 | Antenna Requirement | 10 |
| | 4.2 | AC Power Line Conducted Emissions | 11 |
| | 4.3 | Duty Cycle | 15 |
| | 4.4 | Conducted Output Power | 16 |
| | 4.5 | DTS (6 dB) Bandwidth | 17 |
| | 4.6 | Power Spectral Density | 18 |
| | 4.7 | Band-edge for RF Conducted Emissions | 19 |
| | 4.8 | RF Conducted Spurious Emissions | 20 |
| | 4.9 | Radiated Spurious Emissions | 21 |
| | 4.10 | Restricted bands around fundamental frequency | 24 |
| 5 | Measu | urement Uncertainty (95% confidence levels, k=2) | 26 |
| 6 | Equipr | ment List | 27 |
| 7 | Photog | graphs - EUT Constructional Details | 27 |



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 6 of 60

3 General Information

3.1 Details of Client

| Applicant: | Quectel Wireless Solutions Co., Ltd. |
|---|---|
| Address of Applicant:Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233 | |
| Manufacturer: Quectel Wireless Solutions Co., Ltd. | |
| Address of Manufacturer: | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233 |

3.2 Test Location

| Company: | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. |
|----------------|--|
| Address: | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Post code: | 215000 |
| Test engineer: | Lves Cheng, Tizzy Song |

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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Report No.: SEWM2209000164RG03 Rev.: 01 Page: 7 of 60

3.4 General Description of EUT

S

| EUT Description: | Multi-mode Smart LTE Module | | |
|--|---|--|--|
| Model No.: | SC206E-NA | | |
| Trade Mark: | Quectel | | |
| Hardware Version: | LPDDR4X: R1.0 LPDDR3: R1.1 | | |
| Software Version: | SC206ENANAR60A02 | | |
| Operation Frequency: | 2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39. | | |
| Bluetooth version: | Bluetooth V5.0 | | |
| Modulation Type: | GFSK | | |
| Number of Channel: | 40 | | |
| Potos Tupo*: | ⊠Provided by client | | |
| Rates Type*: | 1M PHY | | |
| Antenna Type: | 🖾 External, 🗌 Integrated | | |
| | 0.47dBi(Ant0) | | |
| Antenna Gain: | Note: The antenna gain are derived from the gain information report provided by the manufacturer. | | |
| RF Cable*: | ⊠Provided by client | | |
| | 0.5dB | | |
| Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this | | | |

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

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| | | | | Rep Rev Pag | | | 164RG03 |
|---------|-----------|---------|--------------|-------------------|-----------|---------|-----------|
| | | Opera | tion Frequen | cy of each ch | nannel | | |
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0 | 2402MHz | 10 | 2422MHz | 20 | 2442MHz | 30 | 2462MHz |
| 1 | 2404MHz | 11 | 2424MHz | 21 | 2444MHz | 31 | 2464MHz |
| 2 | 2406MHz | 12 | 2426MHz | 22 | 2446MHz | 32 | 2466MHz |
| 3 | 2408MHz | 13 | 2428MHz | 23 | 2448MHz | 33 | 2468MHz |
| 4 | 2410MHz | 14 | 2430MHz | 24 | 2450MHz | 34 | 2470MHz |
| 5 | 2412MHz | 15 | 2432MHz | 25 | 2452MHz | 35 | 2472MHz |
| 6 | 2414MHz | 16 | 2434MHz | 26 | 2454MHz | 36 | 2474MHz |
| 7 | 2416MHz | 17 | 2436MHz | 27 | 2456MHz | 37 | 2476MHz |
| 8 | 2418MHz | 18 | 2438MHz | 28 | 2458MHz | 38 | 2478MHz |
| 9 | 2420MHz | 19 | 2440MHz | 29 | 2460MHz | 39 | 2480MHz |
| Pomark. | | | | | | | |

Remark:

S

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency |
|---------------------------|-----------|
| The Lowest channel(CH0) | 2402MHz |
| The Middle channel(CH19) | 2440MHz |
| The Highest channel(CH39) | 2480MHz |



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 9 of 60

3.5 Test Environment

| Environment Parameter | 101.0 kPa Selected Values During Tests | | |
|-----------------------------------|--|-----|--|
| Relative Humidity | 44~60 % RH Ambient | | |
| Value | Temperature(°C) Voltage(V) | | |
| NTNV | 22~25 | 3.8 | |
| LTNV | -35 | 3.8 | |
| HTNV | 75 | 3.8 | |
| Remark: | | | |
| NV: Normal Voltage | | | |
| NT: Normal Temperature | | | |
| LT: Low Extreme Test Temperature | | | |
| HT: High Extreme Test Temperature | | | |

3.6 Description of Support Units

| Description | Manufacturer | Model No. | | |
|---|--------------|-------------|--|--|
| Mother board | Quectel | EVB-G2_V1.3 | | |
| Demarky all above the information of table are provided by client | | | | |

Remark: all above the information of table are provided by client.



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 10 of 60

4 Test results and Measurement Data

4.1 Antenna Requirement

| Standard requirement: | 47 CFR Part 15C Section 15.203 /247(b) |
|-----------------------|--|
|-----------------------|--|

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Non-standard antenna connector is used.

The antenna peak gain of EUT is less than 6 dBi, Therefore, it is not necessary to reduce maximum peak output power limit.



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 11 of 60

4.2 AC Power Line Conducted Emissions

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| Test Requirement: | 47 CFR Part 15C Section 15.207 | | | |
|-----------------------|--|--------------------------|-----------|--|
| Test Method: | ANSI C63.10: 2013 Section 6.2 | | | |
| Test Frequency Range: | 150kHz to 30MHz | | | |
| Receiver Setup: | RBW = 9kHz, VBW = 30 | kHz | | |
| Limit: | t: Limit (dBuV) | | | |
| | Frequency range(MHz) | Quasi-peak | Average | |
| | 0.15-0.5 | 66 to 56* | 56 to 46* | |
| | 0.5-5 | 56 | 46 | |
| | 5-30 | 60 | 50 | |
| | * Decreases with the log | arithm of the frequency. | | |
| Test Procedure: | 5-30 60 50 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to | | | |

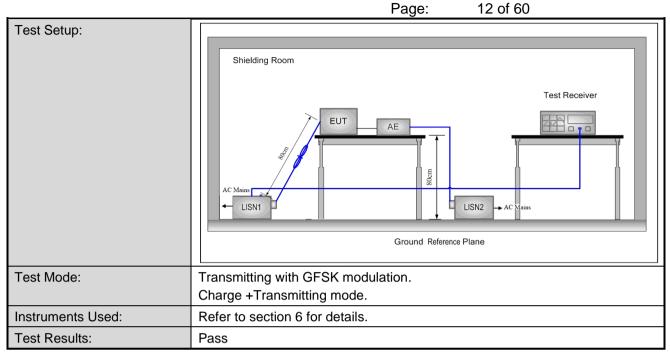


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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 12 of 60





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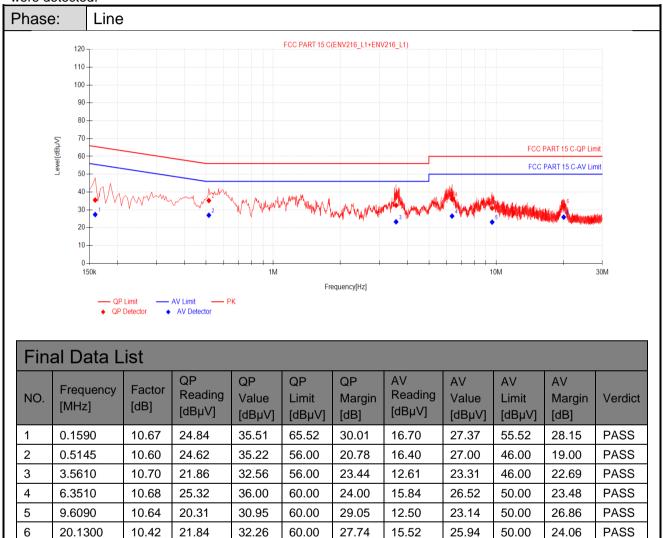
 Rev.:
 01

 Page:
 13 of 60

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Reading + Factor(Lisn factor + cable loss).

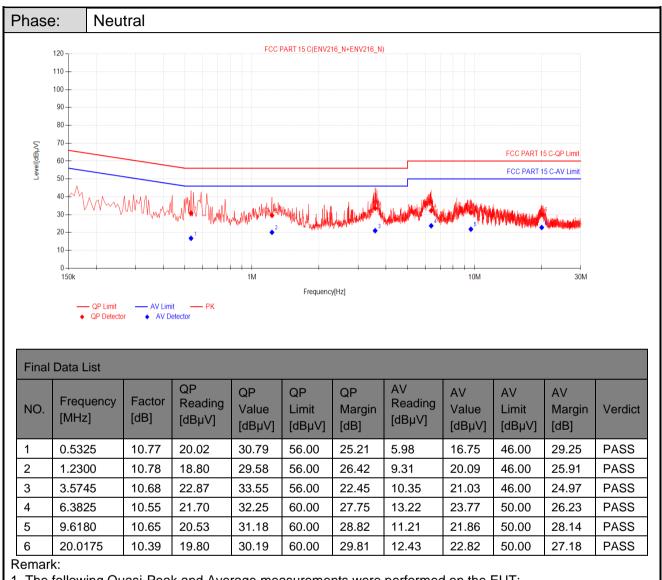


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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 14 of 60



1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Reading + Factor(Lisn factor + cable loss).



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 15 of 60

4.3 Duty Cycle

The detailed test data see: Appendix



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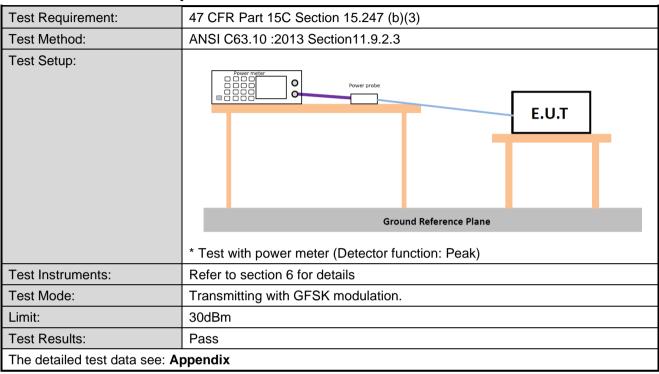
 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 16 of 60

4.4 Conducted Output Power

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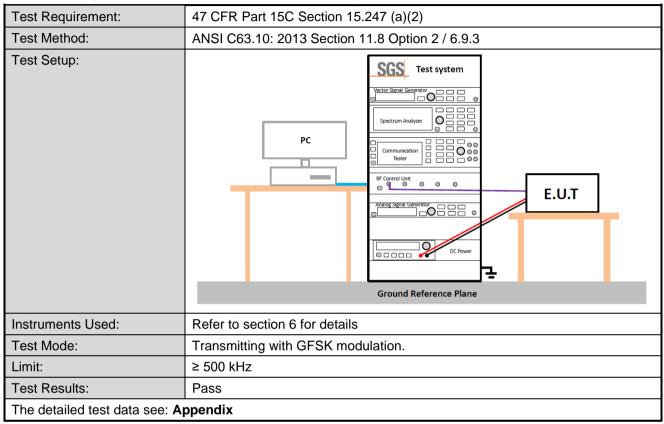
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Report No.: SEWM2209000164RG03 Rev.: 01 Page: 17 of 60

4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 18 of 60

Test Requirement: 47 CFR Part 15C Section 15.247 (e) **Test Method:** ANSI C63.10 :2013 Section 11.10.2 Test Setup: SGS Test system Vector Signal Generator 0 PC Communication Control Unit 0 0 0 E.U.T 0 DC Pov 00000 ŀ Ground Reference Plane **Test Instruments:** Refer to section 6 for details Test Mode: Transmitting with GFSK modulation. Limit: ≤8.00dBm/3kHz **Test Results:** Pass The detailed test data see: Appendix

4.6 Power Spectral Density

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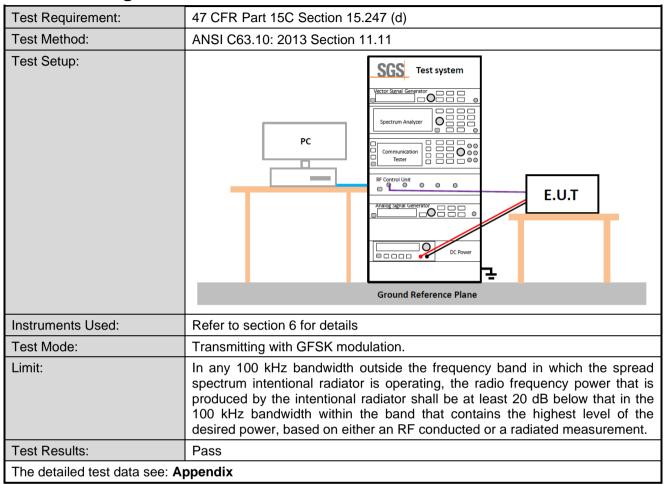
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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 19 of 60

4.7 Band-edge for RF Conducted Emissions





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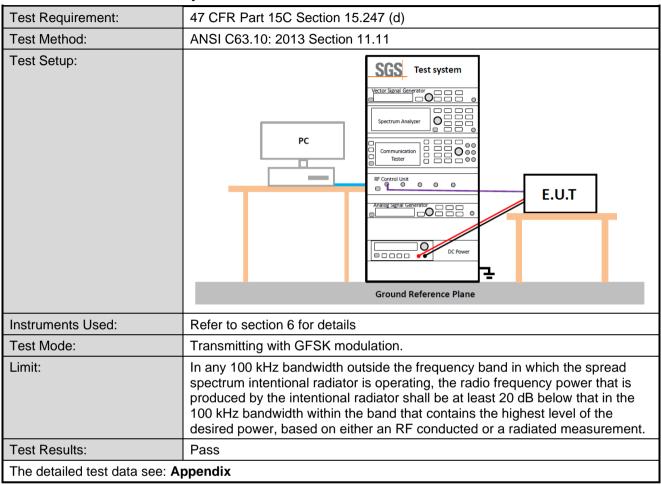
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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 20 of 60

4.8 **RF Conducted Spurious Emissions**





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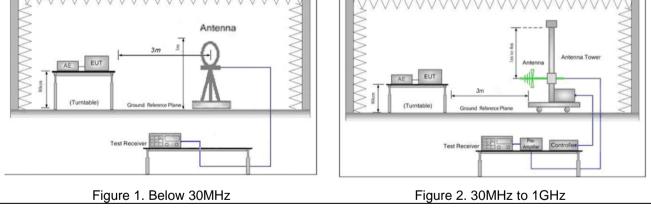
 Rev.:
 01

 Page:
 21 of 60

4.9 Radiated Spurious Emissions

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| | - | | | | | |
|---|---|-------------------------------------|-------------------|------------|-----------------------------|--|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | | | | | |
| Test Method: | ANSI C63.10 :2013 Section 11.12 | | | | | |
| Test Site: | Measurement Distance: | 3m (Semi-Anecho | oic Chamber) |) | | |
| Limit: | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) | |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 | |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 | |
| | 1.705MHz-30MHz | 30 | - | - | 30 | |
| | 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 | |
| | 88MHz-216MHz 150 43.5 Quasi-p | | | | | |
| | 216MHz-960MHz | 216MHz-960MHz 200 4 | | | 3 | |
| | 960MHz-1GHz | 1GHz 500 54.0 | | Quasi-peak | 3 | |
| | Above 1GHz | 500 | 54.0 | Average | 3 | |
| Remark: 15.35(b),Unless otherwise specified, the limit on peak radio freque emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total per emission level radiated by the device. | | | | | nit | |
| Test Setup: | | | | | | |
| | | | | | | |





| | Report No.: SEWM2209000164RG03 Rev.: 01 Page: 22 of 60 |
|---------------------|--|
| | Antenna Tower Im or 3m Im or 3m I |
| | Figure 3. Above 1 GHz |
| Test Procedure: | a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. (Distance from antenna to EUT is 1m for measurements >18GHz). |
| | c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, |
| | which was mounted on the top of a variable-height antenna tower. |
| | d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. |
| | e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. |
| | f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. |
| | g. Test the EUT in the lowest channel, the middle channel ,the Highest channel. |
| | h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. |
| | i. Repeat above procedures until all frequencies measured was complete. |
| | j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported |
| | k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. |
| | At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB. |
| Test Configuration: | Measurements Below 1000MHz |
| | • RBW = 120 kHz |
| | • VBW = 300 kHz |
| | Detector = Peak |
| | Trace mode = max hold |



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| | | Rev.: | SEWM2209000164RG03 01 | | |
|------------------------|---|-----------------|---------------------------------|--|--|
| · | | Page: | 23 of 60 | | |
| | Peak Measurements Above 1000 MHz | | | | |
| | • RBW = 1 MHz | | | | |
| | • VBW ≥ 3 MHz | | | | |
| | Detector = Peak | | | | |
| | Sweep time = auto | | | | |
| | Trace mode = max hold | | | | |
| | Average Measurements Above 1000M | Hz | | | |
| | • RBW = 1 MHz | | | | |
| | • VBW ≥ [3 *RBW] | 5 | | | |
| | Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. | | | | |
| | Sweep time = auto | | | | |
| | Perform a trace average of at least 1 | 00 traces. | | | |
| | Value = Reading + Factor(Antenna Fac | tor + Cable los | ss – Preamplifier Factor). | | |
| Exploratory Test | Transmitting with GFSK modulation. | | | | |
| Mode: | Charge + Transmitting mode. | | | | |
| Final Test Mode: | Transmitting with GFSK modulation. | | | | |
| | Pretest the EUT at Charge + Transmitti | ing mode, | | | |
| | For below 1GHz part, through pre-sca the worst case is recorded in the report | | ase is the lowest channel. Only | | |
| Instruments Used: | Refer to section 6 for details | | | | |
| Test Results: | Pass | | | | |
| The detailed test data | see: Appendix | | | | |



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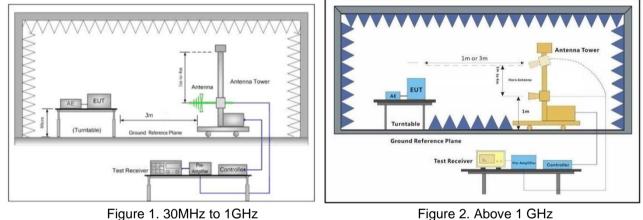
Report No.: SEWM2209000164RG03 Rev.: 01 Page: 24 of 60

4.10Restricted bands around fundamental frequency

| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | | | | | |
|-------------------|---|---------------------------------|---------------|--|--|--|
| Test Method: | ANSI C63.10: 2013 Section | ANSI C63.10: 2013 Section 11.12 | | | | |
| Test Site: | Measurement Distance: 3m | (Semi-Anechoic Cham | ber) | | | |
| Limit: | Frequency Limit (dBuV/m) Remark | | | | | |
| | 30MHz-88MHz | 40.0 | Quasi-peak | | | |
| | 88MHz-216MHz | 43.5 | Quasi-peak | | | |
| | 216MHz-960MHz | 46.0 | Quasi-peak | | | |
| | Quasi-peak | | | | | |
| | Above 1GHz | 54.0 | Average Value | | | |
| | Above IGHZ | 74.0 | Peak Value | | | |

Test Setup:

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| | Figure 1. 3 | UMHZ to 1GHZ | Figure 2. Above 1 GHZ |
|-----------------|-------------|--|--|
| Test Procedure: | a. | above the ground at a | UT was placed on the top of a rotating table 0.8 meters 3 or 10 meter semi-anechoic camber. The table was determine the position of the highest radiation. |
| | b. | meters above the grou | EUT was placed on the top of a rotating table 1.5 nd at a 3 meter semi-anechoic camber. The table was determine the position of the highest radiation. |
| | C. | | or 10 meters away from the interference-receiving ounted on the top of a variable-height antenna tower. |
| | d. | to determine the max | varied from one meter to four meters above the ground mum value of the field strength. Both horizontal and the antenna are set to make the measurement. |
| | e. | then the antenna was | mission, the EUT was arranged to its worst case and tuned to heights from 1 meter to 4 meters and the urned from 0 degrees to 360 degrees to find the |
| | f. | The test-receiver syst Bandwidth with Maxim | em was set to Peak Detect Function and Specified um Hold Mode. |
| | g. | | e end of the restricted band closest to the transmit ppliance. Also measure any emissions in the restricted |



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| | Report No.: SEWM2209000164RG03 Rev.: 01 Page: 25 of 60 |
|----------------------------|--|
| | bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. |
| Test Configuration: | Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ [3 *RBW] Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. Sweep time = auto Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss). |
| Exploratory Test Mode: | Transmitting with GFSK modulation. Charge + Transmitting mode. |
| Final Test Mode: | Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report. |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |
| The detailed test data see | : Appendix |



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Report No.: SEWM2209000164RG03 Rev.: 01 Page: 26 of 60

5 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty |
|-----|-------------------------------|----------------------------|
| 1 | Total RF power, conducted | ±0.54dB |
| 2 | RF power density, conducted | ±1.03dB |
| 3 | Spurious emissions, conducted | ±0.54dB |
| 4 | Radio Frequency | ±1.0% |
| 5 | Duty Cycle | ±0.37% |
| 6 | Occupied Bandwidth | ±1.0% |
| 7 | Conduction Emission | ± 2.90dB (150kHz to 30MHz) |
| | | ± 3.13dB (9k -30MHz) |
| 0 | | ± 4.80dB (30M -1GHz) |
| 8 | Radiated Emission | ± 4.80dB (1GHz to 18GHz) |
| | | ± 4.80dB (Above 18GHz) |

Remark:

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The Ulab (lab Uncertainty) is less than Ucispi/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 27 of 60

6 Equipment List

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| RF Test Equipment | | | | | | |
|-----------------------------------|---------------|---------------------------------|---------------|------------|-----------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| Shielding Room | Brilliant-emc | N/A | SUWI-04-01-06 | 2021/05/08 | 2024/05/07 | |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-07 | 2022/02/16 | 2023/02/15 | |
| Signal Analyzar | ROHDE&SCHWARZ | FSV3030 | SUWI-01-02-02 | 2021/05/28 | 2022/05/27 | |
| Signal Analyzer | | | | 2022/05/17 | 2023/05/16 | |
| Measurement Software | Tonscend | JS1120-3 Test System V3.1.55 | SUWI-02-09-09 | NCR | NCR | |
| DC Power Supply | HYELEC | HY3005B | SUWI-01-18-01 | 2022/02/15 | 2023/02/14 | |
| Power meter | Anritsu | ML2495A | SUWI-01-31-01 | 2021/12/04 | 2022/12/03 | |
| Pulse power sensor | Anritsu | MA2411B | SUWI-01-32-01 | 2021/12/04 | 2022/12/03 | |

| CE Test System | | | | | | |
|-----------------------------------|---------------|---------------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| Shielding Room | Brilliant-emc | N/A | SUWI-04-03-01 | 2021/05/08 | 2024/05/07 | |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-01 | 2022/02/19 | 2023/02/18 | |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-02 | 2022/02/19 | 2023/02/18 | |
| Measurement Software | Tonscend | JS32-CE V4.0.0.2 | SUWI-02-09-05 | NCR | NCR | |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2022/02/19 | 2023/02/18 | |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-06 | 2022/02/16 | 2023/02/15 | |



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Report No.: SEWM2209000164RG03 Rev.: 01 28 of 60 Page:

| Page. 20 01 00 | | | | | | | | |
|-----------------------------------|--|----------------------|---------------|--------------------------|--------------------------|--|--|--|
| RSE Test Equipment | | | | | | | | |
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | | | |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | SUWI-04-02-01 | 2021/05/08 | 2024/05/07 | | | |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-05 | 2022/02/16 | 2023/02/15 | | | |
| Signal Analyzer* | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2021/05/28 2022/05/28 | 2022/05/27 2023/05/27 | | | |
| Signal Analyzer | KEYSIGHT | N9020A | SUWI-01-02-05 | 2021/12/04 | 2022/12/03 | | | |
| Test receiver | est receiver ROHDE&SCHWARZ | | SUWI-01-10-01 | 2022/02/19 | 2023/02/18 | | | |
| DC Power Supply | Power Supply HYELEC | | SUWI-01-18-01 | 2022/02/15 | 2023/02/14 | | | |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | VULB 9163 | SUWI-01-11-01 | 2021/05/16 | 2023/05/15 | | | |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | BBHA 9120D | SUWI-01-11-02 | 2021/05/16 | 2023/05/15 | | | |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | BBHA 9170 | SUWI-01-11-03 | 2021/05/14 | 2023/05/13 | | | |
| Amplifier | Tonscend | TAP9K3G40 | SUWI-01-14-01 | 2022/02/14 | 2023/02/13 | | | |
| Amplifier | Amplifier Tonscend | | SUWI-01-14-02 | 2022/02/14 | 2023/02/13 | | | |
| Amplifier | Tonscend | TAP18040048 | SUWI-01-14-03 | 2022/02/19 | 2023/02/18 | | | |
| Active Loop Antenna | ctive Loop Antenna MESS- ELEKTRONIK | | SUWI-01-21-01 | 2021/06/10 | 2023/06/09 | | | |
| Measurement Software | Tonscend | JS32-RE V4.0.0.0 | SUWI-02-09-04 | NCR | NCR | | | |
| Measurement Software | Tonscend | JS32-RSE V4.0.0.1 | SUWI-02-09-06 | NCR | NCR | | | |

*Note: This equipment was not used for testing on 2022/05/27.



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7 **Photographs - Setup Photos**

Refer to Appendix A.2 WLAN Setup Photos.



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 31 of 60

DTS Bandwidth Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------------|---------|---------|------------|---------|
| BLE_1M | Ant0 | 2402 | 0.67 | 2401.66 | 2402.32 | ≥0.5 | PASS |
| | | 2440 | 0.67 | 2439.66 | 2440.33 | ≥0.5 | PASS |
| | | 2480 | 0.67 | 2479.66 | 2480.33 | ≥0.5 | PASS |



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 32 of 60



Test Graphs

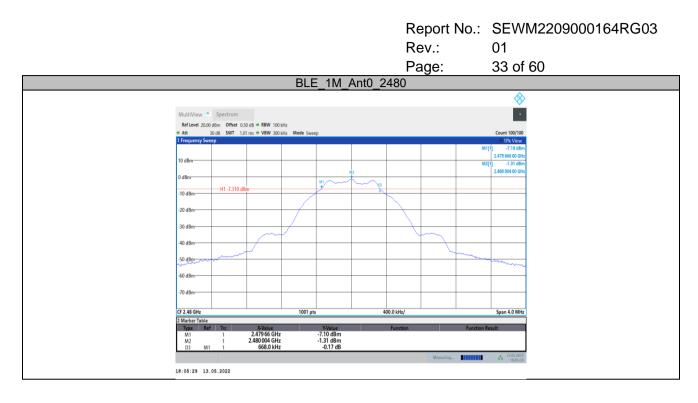


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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 34 of 60

Occupied Channel Bandwidth Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-------------|---------|----------------|-----------|----------|----------|------------|---------|
| BLE_1M Ant0 | | 2402 | 1.031 | 2401.485 | 2402.516 | | |
| | 2440 | 1.032 | 2439.485 | 2440.518 | | | |
| | | 2480 | 1.031 | 2479.486 | 2480.517 | | |



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Report No.: SEWM2209000164RG03 Rev.: 01 35 of 60 Page:



Test Graphs



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 37 of 60

Maximum conducted output power Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Powert[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|-------------------------------|-------------------------|---------|
| | | 2402 | 0.35 | ≤30 | PASS |
| BLE_1M | Ant0 | 2440 | 1.23 | ≤30 | PASS |
| | | 2480 | 1.20 | ≤30 | PASS |



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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 38 of 60

Maximum power spectral density Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| | | 2402 | -14.94 | ≤8.00 | PASS |
| BLE_1M | Ant0 | 2440 | -14.05 | ≤8.00 | PASS |
| | | 2480 | -14.07 | ≤8.00 | PASS |



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Report No.: SEWM2209000164RG03 Rev.: 01 39 of 60 Page:



Test Graphs

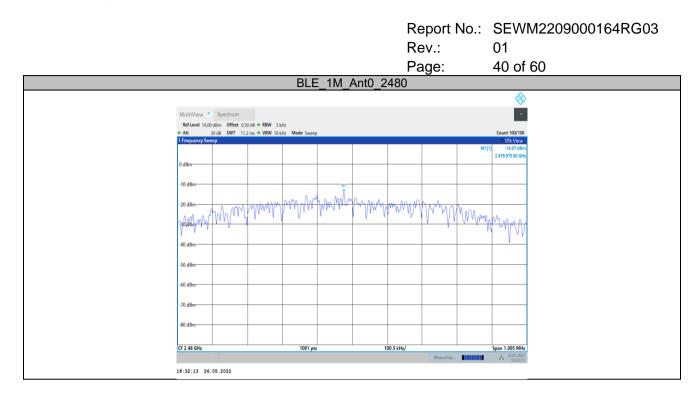


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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 41 of 60

Band edge measurements

Test Graphs





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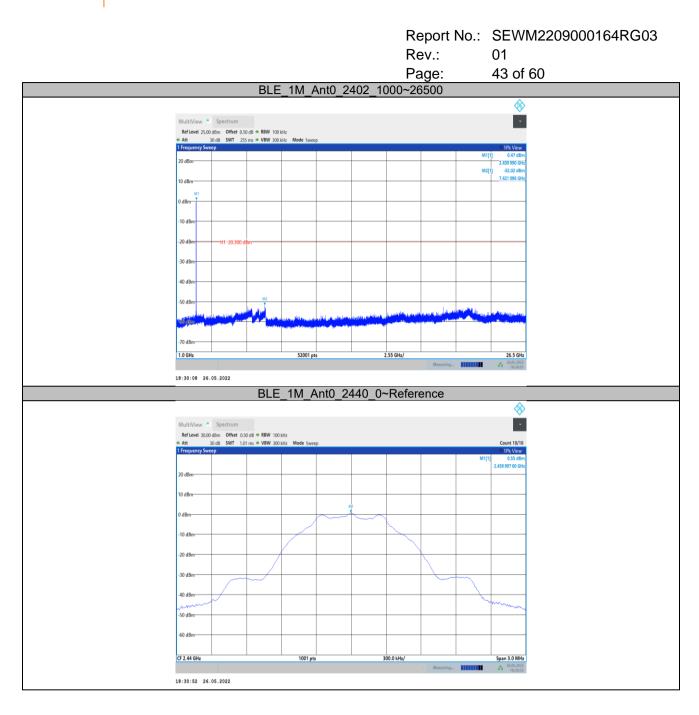
 Page:
 42 of 60

Conducted Spurious Emission Test Graphs





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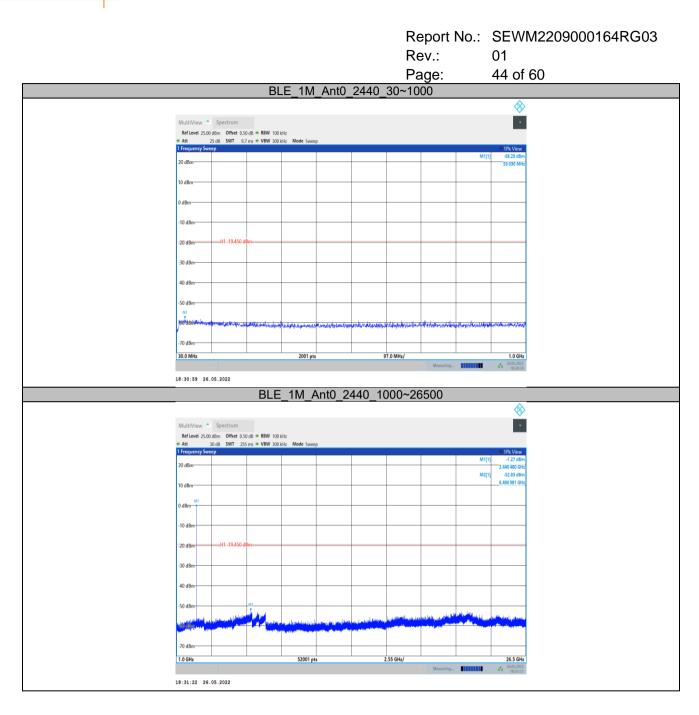




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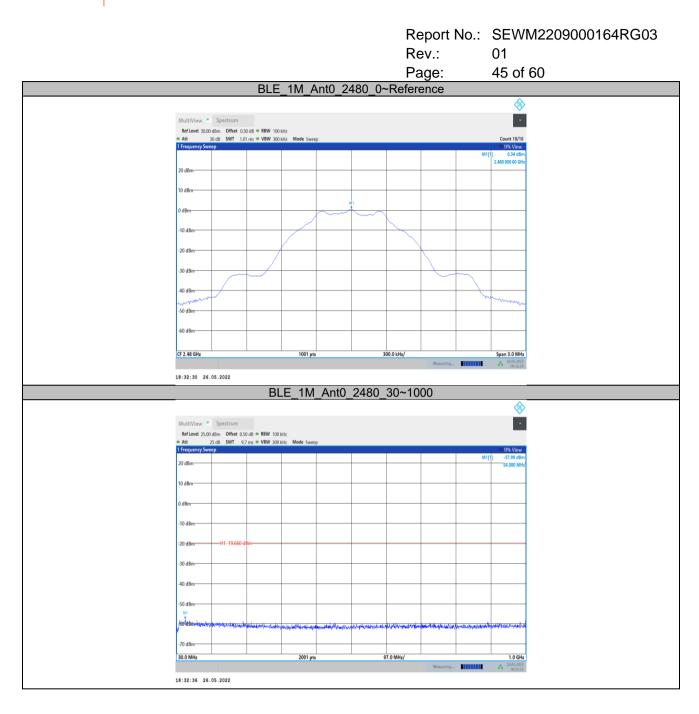




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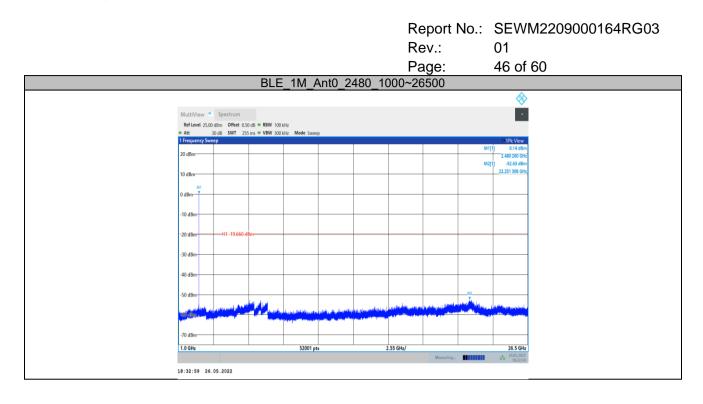




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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 47 of 60

Duty Cycle Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| BLE_1M | Ant0 | 2402 | 0.39 | 0.63 | 61.90 | 2.08 |



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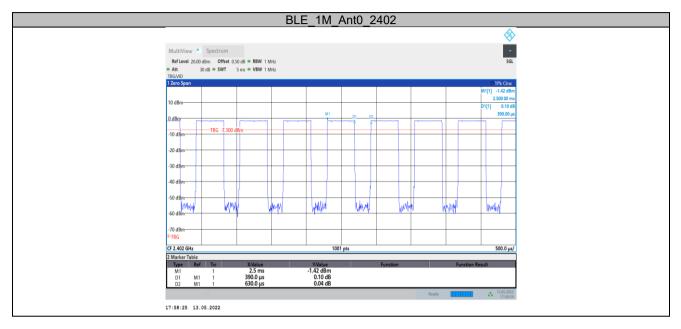
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 SEWM2209000164RG03

 Rev.:
 01

 Page:
 48 of 60



Test Graphs



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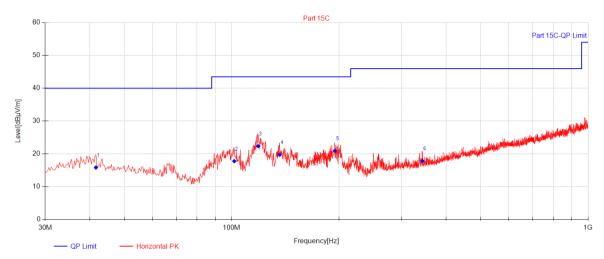
 Rev.:
 01

 Page:
 49 of 60

Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE _ Channel 39



| Final | Final Data List | | | | | | | | | | | | |
|-------|-----------------|---------|--------|----------|----------|-----------|--------|-------|------------|--|--|--|--|
| | Frequency | Reading | Factor | QP Value | QP Limit | QP Margin | Height | Angle | Datadi | | | | |
| NO. | [MHz] | [dBµV] | [dB] | [dBµV/m] | [dBµV/m] | [dB] | [cm] | [°] | Polarity | | | | |
| 1 | 41.64 | 38.15 | -22.32 | 15.83 | 40.00 | 24.17 | 155 | 84 | Horizontal | | | | |
| 2 | 101.78 | 43.28 | -25.50 | 17.78 | 43.50 | 25.72 | 166 | 237 | Horizontal | | | | |
| 3 | 118.755 | 46.41 | -24.05 | 22.36 | 43.50 | 21.14 | 184 | 260 | Horizontal | | | | |
| 4 | 136.4575 | 42.06 | -22.33 | 19.73 | 43.50 | 23.77 | 172 | 75 | Horizontal | | | | |
| 5 | 195.1425 | 45.18 | -24.23 | 20.95 | 43.50 | 22.55 | 190 | 285 | Horizontal | | | | |
| 6 | 343.0675 | 38.19 | -20.39 | 17.80 | 46.00 | 28.20 | 140 | 299 | Horizontal | | | | |



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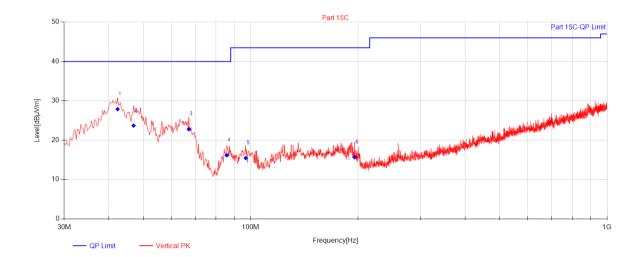
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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 50 of 60



| Final | Final Data List | | | | | | | | | | | | |
|-------|-----------------|---------|--------|----------|----------|-----------|--------|-------|----------|--|--|--|--|
| NO. | Frequency | Reading | Factor | QP Value | QP Limit | QP Margin | Height | Angle | Polarity | | | | |
| NO. | [MHz] | [dBµV] | [dB] | [dBµV/m] | [dBµV/m] | [dB] | [cm] | [°] | rolanty | | | | |
| 1 | 42.3675 | 50.26 | -22.37 | 27.89 | 40.00 | 12.11 | 152 | 146 | Vertical | | | | |
| 2 | 46.975 | 46.28 | -22.57 | 23.71 | 40.00 | 16.29 | 184 | 171 | Vertical | | | | |
| 3 | 67.1025 | 47.89 | -25.11 | 22.78 | 40.00 | 17.22 | 179 | 251 | Vertical | | | | |
| 4 | 85.775 | 42.89 | -26.72 | 16.17 | 40.00 | 23.83 | 123 | 73 | Vertical | | | | |
| 5 | 96.93 | 41.49 | -26.03 | 15.46 | 43.50 | 28.04 | 254 | 105 | Vertical | | | | |
| 6 | 196.1125 | 40.13 | -24.43 | 15.70 | 43.50 | 27.80 | 268 | 89 | Vertical | | | | |



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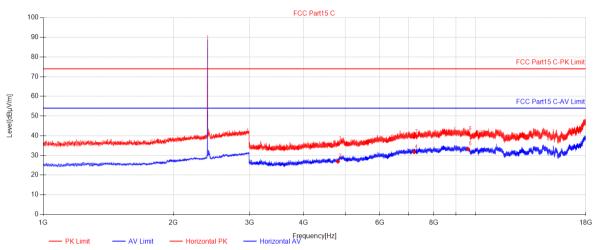
 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 51 of 60

Transmitter emission Above 1GHz

BLE_1M_Channel 00



| Final | Final Data List | | | | | | | | | | | |
|-------|--------------------|-------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|------------|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 4804.0000 | 48.93 | -13.21 | 35.72 | 74.00 | 38.28 | 241 | 299 | Horizontal | | | |
| 2 | 4804.0000 | 40.06 | -13.21 | 26.85 | 54.00 | 27.15 | 152 | 24 | Horizontal | | | |
| 3 | 7206.0000 | 46.16 | -6.84 | 39.32 | 74.00 | 34.68 | 166 | 88 | Horizontal | | | |
| 4 | 7206.0000 | 38.52 | -6.84 | 31.68 | 54.00 | 22.32 | 184 | 300 | Horizontal | | | |
| 5 | 9608.0000 | 34.42 | -1.22 | 33.20 | 54.00 | 20.80 | 172 | 45 | Horizontal | | | |
| 6 | 9608.0000 | 42.10 | -1.22 | 40.88 | 74.00 | 33.12 | 230 | 130 | Horizontal | | | |



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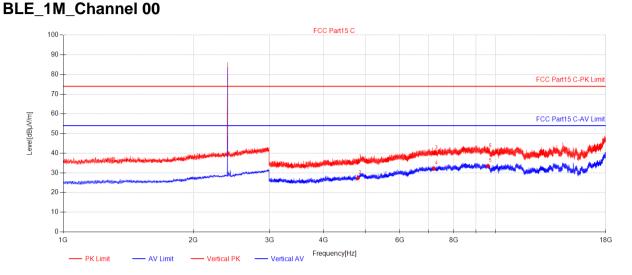
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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 52 of 60



| Final | Final Data List | | | | | | | | | | | | |
|-------|--------------------|-------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 4804.0000 | 48.59 | -13.21 | 35.38 | 74.00 | 38.62 | 188 | 355 | Vertical | | | | |
| 2 | 4804.0000 | 40.46 | -13.21 | 27.25 | 54.00 | 26.75 | 175 | 87 | Vertical | | | | |
| 3 | 7206.0000 | 46.75 | -6.84 | 39.91 | 74.00 | 34.09 | 176 | 128 | Vertical | | | | |
| 4 | 7206.0000 | 39.00 | -6.84 | 32.16 | 54.00 | 21.84 | 194 | 359 | Vertical | | | | |
| 5 | 9608.0000 | 34.77 | -1.22 | 33.55 | 54.00 | 20.45 | 201 | 214 | Vertical | | | | |
| 6 | 9608.0000 | 42.19 | -1.22 | 40.97 | 74.00 | 33.03 | 133 | 355 | Vertical | | | | |



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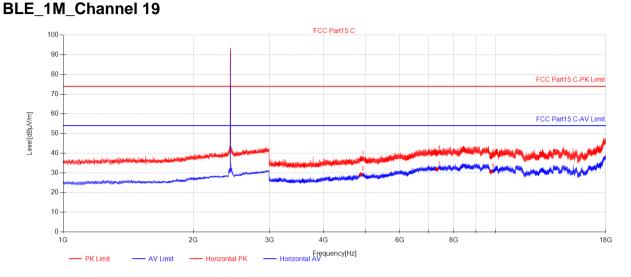
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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 53 of 60



| Final | Final Data List | | | | | | | | | | | | |
|-------|--------------------|-------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|------------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 4880.0000 | 49.83 | -12.99 | 36.84 | 74.00 | 37.16 | 168 | 105 | Horizontal | | | | |
| 2 | 4880.0000 | 42.19 | -12.99 | 29.20 | 54.00 | 24.80 | 180 | 168 | Horizontal | | | | |
| 3 | 7320.0000 | 39.05 | -7.15 | 31.90 | 54.00 | 22.10 | 164 | 146 | Horizontal | | | | |
| 4 | 7320.0000 | 47.30 | -7.15 | 40.15 | 74.00 | 33.85 | 194 | 1 | Horizontal | | | | |
| 5 | 9760.0000 | 31.73 | -1.20 | 30.53 | 54.00 | 23.47 | 233 | 62 | Horizontal | | | | |
| 6 | 9760.0000 | 39.16 | -1.20 | 37.96 | 74.00 | 36.04 | 172 | 146 | Horizontal | | | | |



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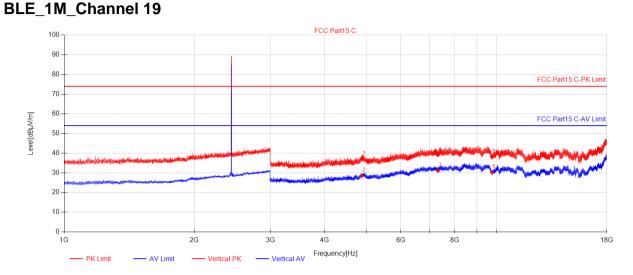
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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 54 of 60



| Final | Final Data List | | | | | | | | | | | |
|-------|--------------------|-------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|----------|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 4880.0000 | 50.24 | -12.99 | 37.25 | 74.00 | 36.75 | 177 | 271 | Vertical | | | |
| 2 | 4880.0000 | 41.53 | -12.99 | 28.54 | 54.00 | 25.46 | 191 | 40 | Vertical | | | |
| 3 | 7320.0000 | 38.23 | -7.15 | 31.08 | 54.00 | 22.92 | 168 | 146 | Vertical | | | |
| 4 | 7320.0000 | 46.25 | -7.15 | 39.10 | 74.00 | 34.90 | 194 | 61 | Vertical | | | |
| 5 | 9760.0000 | 31.42 | -1.20 | 30.22 | 54.00 | 23.78 | 254 | 40 | Vertical | | | |
| 6 | 9760.0000 | 39.34 | -1.20 | 38.14 | 74.00 | 35.86 | 172 | 209 | Vertical | | | |



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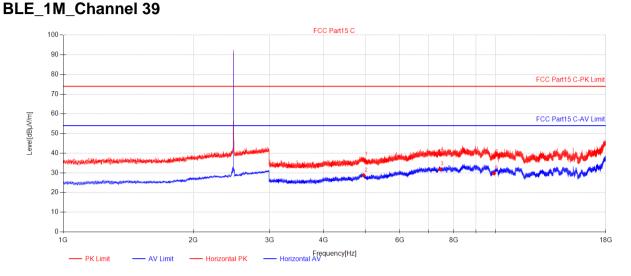
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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 55 of 60



| Final | Final Data List | | | | | | | | | | | | |
|-------|--------------------|-------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|------------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 4960.0000 | 49.48 | -12.83 | 36.65 | 74.00 | 37.35 | 123 | 146 | Horizontal | | | | |
| 2 | 4960.0000 | 41.49 | -12.83 | 28.66 | 54.00 | 25.34 | 254 | 20 | Horizontal | | | | |
| 3 | 7440.0000 | 38.67 | -6.83 | 31.84 | 54.00 | 22.16 | 214 | 275 | Horizontal | | | | |
| 4 | 7440.0000 | 46.15 | -6.83 | 39.32 | 74.00 | 34.68 | 126 | 5 | Horizontal | | | | |
| 5 | 9920.0000 | 30.62 | -0.93 | 29.69 | 54.00 | 24.31 | 188 | 83 | Horizontal | | | | |
| 6 | 9920.0000 | 38.95 | -0.93 | 38.02 | 74.00 | 35.98 | 194 | 209 | Horizontal | | | | |



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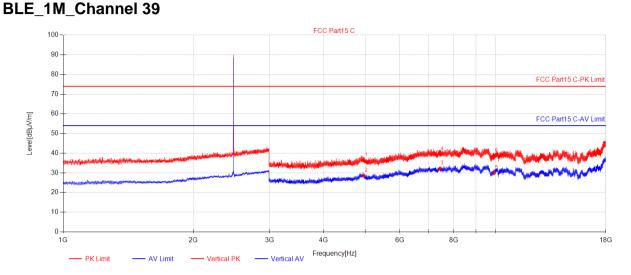
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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 56 of 60



| Final | Final Data List | | | | | | | | | | | |
|-------|--------------------|-------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|----------|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 4960.0000 | 49.14 | -12.83 | 36.31 | 74.00 | 37.69 | 211 | 294 | Vertical | | | |
| 2 | 4960.0000 | 41.35 | -12.83 | 28.52 | 54.00 | 25.48 | 184 | 316 | Vertical | | | |
| 3 | 7440.0000 | 39.02 | -6.83 | 32.19 | 54.00 | 21.81 | 235 | 356 | Vertical | | | |
| 4 | 7440.0000 | 46.25 | -6.83 | 39.42 | 74.00 | 34.58 | 196 | 168 | Vertical | | | |
| 5 | 9920.0000 | 30.89 | -0.93 | 29.96 | 54.00 | 24.04 | 155 | 336 | Vertical | | | |
| 6 | 9920.0000 | 39.49 | -0.93 | 38.56 | 74.00 | 35.44 | 180 | 104 | Vertical | | | |



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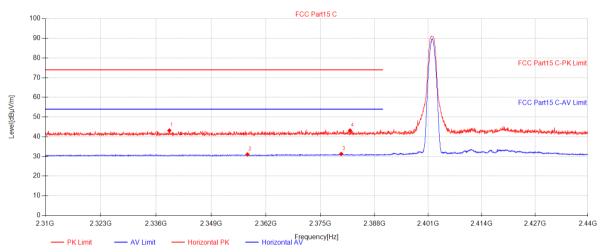
 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 57 of 60

Restricted bands around fundamental frequency

BLE_1M_Channel 00



| Final | Final Data List | | | | | | | | | | | |
|-------|--------------------|-------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|------------|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 2339.12 | 40.04 | 3.09 | 43.13 | 74.00 | 30.87 | 236 | 130 | Horizontal | | | |
| 2 | 2357.6233 | 27.92 | 3.08 | 31.00 | 54.00 | 23.00 | 236 | 130 | Horizontal | | | |
| 3 | 2380.0267 | 28.15 | 3.08 | 31.23 | 54.00 | 22.77 | 236 | 130 | Horizontal | | | |
| 4 | 2382.15 | 40.08 | 3.08 | 43.16 | 74.00 | 30.84 | 236 | 130 | Horizontal | | | |



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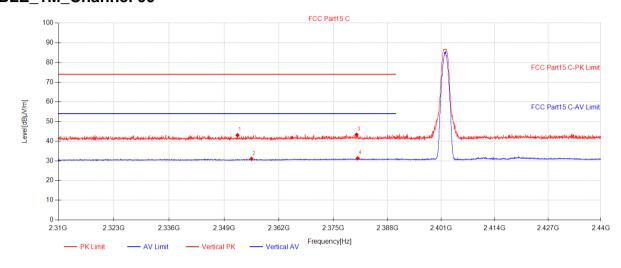
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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 58 of 60



| Final Data List | | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|----------|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2352.1633 | 39.99 | 3.08 | 43.07 | 74.00 | 30.93 | 145 | 144 | Vertical |
| 2 | 2355.5 | 27.94 | 3.08 | 31.02 | 54.00 | 22.98 | 145 | 144 | Vertical |
| 3 | 2380.59 | 40.24 | 3.08 | 43.32 | 74.00 | 30.68 | 145 | 144 | Vertical |
| 4 | 2380.85 | 28.22 | 3.08 | 31.30 | 54.00 | 22.70 | 145 | 144 | Vertical |





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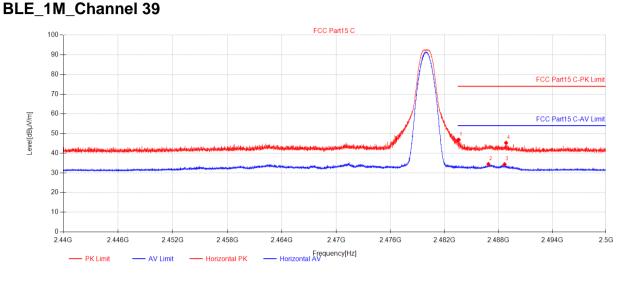
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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 59 of 60



| Final Data List | | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|------------|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2483.5825 | 43.25 | 3.60 | 46.85 | 74.00 | 27.15 | 155 | 346 | Horizontal |
| 2 | 2486.8825 | 30.83 | 3.62 | 34.45 | 54.00 | 19.55 | 155 | 346 | Horizontal |
| 3 | 2488.69 | 30.72 | 3.63 | 34.35 | 54.00 | 19.65 | 155 | 346 | Horizontal |
| 4 | 2488.8475 | 41.61 | 3.63 | 45.24 | 74.00 | 28.76 | 155 | 346 | Horizontal |



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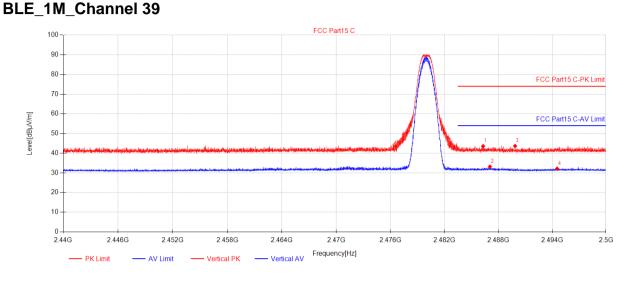
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 Report No.:
 SEWM2209000164RG03

 Rev.:
 01

 Page:
 60 of 60



| Final Data List | | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|-------------------|-------------------|----------------|----------------|--------------|----------|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2486.29 | 39.95 | 3.61 | 43.56 | 74.00 | 30.44 | 148 | 269 | Vertical |
| 2 | 2487.0475 | 29.52 | 3.62 | 33.14 | 54.00 | 20.86 | 148 | 269 | Vertical |
| 3 | 2489.8525 | 40.00 | 3.64 | 43.64 | 74.00 | 30.36 | 148 | 269 | Vertical |
| 4 | 2494.54 | 28.46 | 3.67 | 32.13 | 54.00 | 21.87 | 148 | 269 | Vertical |

---End of Report---



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