



Element Washington DC LLC

18855 Adams Court, Morgan Hill, CA 95037 USA

Tel. 410.290.6652 / Fax 410.290.6654

<http://www.element.com>



MEASUREMENT REPORT FCC PART 15.519 / ISED RSS-220 Ultra-Wideband

Applicant Name:

Apple Inc.
One Apple Park Way
Cupertino, CA 95014
United States

Date of Testing:

6/7/2022 - 8/5/2022

Test Site/Location:

Element Washington DC LLC
Morgan Hill, CA, USA

Test Report Serial No.:
1C2205090040-13.BCG

| | |
|-------------------|-------------------|
| FCC ID: | BCG-A2774 |
| IC: | 579C-A2774 |
| APPLICANT: | Apple Inc. |

Application Type:

Certification

Model/HVIN:

A2774

EUT Type:

Watch

Operational Frequency:

6489.6MHz (Ch 5) and 7987.2MHz (Ch 9)

FCC Classification:

Ultra-Wideband Transmitter (UWB)

FCC Rule Part(s):

Part 15 Subpart F (15.519)

ISED Specification:

RSS-Gen Issue 5, RSS-220 Issue 1

RSS-220 Subclass:

Hand-held Communication Devices

Test Procedure(s):

ANSI C63.10-2013, KDB 393764 D01 v02r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013 and KDB 393764 D01 v02r01. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez

Executive Vice President



CERT #2041.02

| | | | |
|---|------------------------------------|---------------------------------------|-----------------------------------|
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| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 1 of 63 |

V 10.5 12/15/2021

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Washington DC LLC Test Location

These measurement tests were conducted at the Element facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element located in Morgan Hill, CA 95037, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element facility is a registered (22831) test laboratory with the site description on file with ISED.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A2774** and **IC: 579C-A2774**. The test data contained in this report pertains only to the emissions due to the EUT's Ultra-Wideband (UWB) transmitter.

Test Device Serial No.: DX63VJFV1X, Q9PCFHH76Y, LP626JHJLV

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n WLAN, 802.11a/n UNII, Bluetooth (1x, EDR, HDR4, HDR8, LE1M, LE2M), NFC, UWB, 60.5GHz Transmitter.

For ISED, this device is under subclass 5.3 Hand-held Communication Devices of RSS-220

Data Port UWB Radio Terminal Access: No

| Ch. | Frequency [MHz] | Config | Payload |
|-----|-----------------|--------|---------|
| 5 | 6500 | 0 | 25 |
| | | | 65 |
| | | | 125 |
| | | 1 | 45 |
| | | | 85 |
| | | | 125 |
| | | 4 | 0 |
| | | | 0 |
| | | 9 | 25 |
| | | | 65 |
| | | | 125 |
| | | 1 | 45 |
| | | | 85 |
| | | | 125 |
| | | 4 | 0 |
| | | | 0 |
| | | | 0 |

Table 2-1. UWB Frequency / Channel Operations

| | | | |
|---|--|---------------------------------------|-----------------------------------|
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Notes:

1. This device supports simultaneous multi radio transmission feature, which allows multiple radios to transmit simultaneously at the same antenna. The table below shows all the possible multi radio TX combinations:

| Simultaneous Tx Config | Antenna FCM | | | | |
|------------------------|--------------|----------------------|---------------------|------------|------------|
| | WLAN | Bluetooth | LTE/WCDMA | UNII | UWB |
| | 802.11 b/g/n | BDR, EDR, HDR4/8, LE | Mid band/ High band | 802.11 a/n | Ch.5, Ch.9 |
| Config 1 | ✓ | ✗ | ✗ | ✗ | ✓ |
| Config 2 | ✗ | ✓ | ✗ | ✗ | ✓ |
| Config 3 | ✗ | ✗ | ✓ | ✗ | ✓ |
| Config 4 | ✗ | ✓ | ✓ | ✗ | ✗ |
| Config 5 | ✓ | ✗ | ✓ | ✗ | ✗ |
| Config 6 | ✗ | ✗ | ✓ | ✓ | ✗ |
| Config 7 | ✗ | ✗ | ✓ | ✗ | ✓ |
| Config 8 | ✗ | ✓ | ✓ | ✗ | ✓ |
| Config 9 | ✓ | ✗ | ✓ | ✗ | ✓ |
| Config 10 | ✗ | ✓ | ✓ | ✓ | ✗ |

Table 2-2. Simultaneous Transmission Configurations

✓ = Support; ✗ = NOT Support

2. All above simultaneous transmission configurations have been tested and the worst case configuration was found to be configuration 10 (BT, LTE Band41, and UNII). These results can be found in the RF Bluetooth, RF UNII and RF Part 27b/ RSS-199 reports.

2.3 Antenna Description

Following antenna gain provided by manufacturer was used for the testing.

| Frequency [MHz] | Antenna Gain (dBi) |
|-----------------|--------------------|
| 6250-6750 | -8.0 |
| 7750-8250 | -5.9 |

Table 2-3. Highest Antenna Gain

Note: Antenna Specifications has been attached to Appendix A

| | | | |
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2.4 Test Support Equipment

| Test Support Equipment | | | | | |
|------------------------|--|---|----------------------------------|---|-------------------|
| 1 | Apple Macbook w/AC/DC Adapter | Model: A1398 Model: A1435 | A1398 Model: 993-89846LL/A | S/N: N/A S/N: QHLHY57CJ9 | C2QKP008F6F3 |
| 2 | Apple iPhone | Model: N/A Model: N/A Model: LA2-BD-LG-EVT | N/A Model: LA2-BD-LG-EVT | S/N: N/A S/N: DQ812910CU008V22F S/N: CYV115300H1A2LE03MEVC | N/A |
| 3 | Apple Magnetic Charger Apple Magnetic Charger | Model: A2515 Model: A2515 | A2515 Model: A2515 | S/N: N/A S/N: DLC035202KRMFROA2 | DLC035200UJMFROAJ |
| 4 | Pathfinder Falcon SiP Socket | Model: 920-098626-01 Model: N/A | 920-098626-01 Model: N/A | S/N: N/A S/N: P1 X2538B PF166 | DLC03770065Q6PM1W |
| 5 | DC Power Supply | Model: KPS3010D | KPS3010D | S/N: N/A | N/A |
| 6 | Store Sample Wristband | Model: N/A | N/A | S/N: DLC219400361YDQ2W | |

Table 2-4. Test Support Equipment Used

2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2013 and KDB 393764 D01 v02r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups.

The worst case configuration was for all combinations of the two materials, aluminum, and stainless steel, and various types of wristbands, metal and non-metal wristbands. The EUT was also investigated with and without wireless charger. The worst case configuration found was used for all testing.

For emissions from 960MHz – 18GHz, channel 5 and channel 9 were tested with highest power and worst case configuration. The emissions below 960MHz and above 18GHz were tested with the highest transmitting power and the worst case configuration.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For AC line conducted emission and radiated test below 960MHz, following configuration were investigated and the worst case was reported.

- EUT powered by AC/DC adaptor via USB-C cable with magnetic charger
- EUT powered by host PC via USB-C cable with magnetic charger

| | | | |
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2.6 Software and Firmware

The test was conducted with firmware version watchOS 9.0 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 393764 D01 v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....**None**

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50µH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.8. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

| | | | |
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3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was rotated about its vertical axis while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 shall be considered sufficient to comply with the provisions of this section."

- The antenna(s) of the EUT are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT complies with the requirement of §15.203.

| | | | |
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5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| Contribution | Expanded Uncertainty (\pm dB) |
|----------------------------------|----------------------------------|
| Conducted Bench Top Measurements | 1.77 |
| Line Conducted Disturbance | 2.70 |
| Radiated Disturbance (<30MHz) | 4.38 |
| Radiated Disturbance (<1GHz) | 4.75 |
| Radiated Disturbance (>1GHz) | 5.20 |
| Radiated Disturbance (>18GHz) | 4.72 |

| Parameter | Expanded Uncertainty |
|-----------|----------------------|
| Time | \pm 0.2% |

| | | | |
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6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

| Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|----------------------|-------------|--|------------|--------------|------------|---------------|
| Agilent Technologies | N9030A | 3Hz-44GHz PXA Signal Analyzer | 6/10/2022 | Annual | 6/10/2023 | MY49430244 |
| ATM | 180-442A-KF | 20dB Nominal Gain Horn Antenna | 8/13/2021 | Annual | 8/13/2022 | T058701-01 |
| ETS-Lindgren | 3142E | BiConiLog Antenna (30MHz - 6GHz) | 10/21/2021 | Annual | 10/21/2022 | 208204 |
| ETS-Lindgren | 3117 | Double Ridged Guide Antenna (1-18 GHz) | 5/11/2022 | Annual | 5/11/2023 | 205956 |
| Keysight Technology | N9040B | UXA Signal Analyzer | 2/8/2022 | Annual | 2/8/2023 | MY57212015 |
| Rohde & Schwarz | TS-PR18 | Pre-Amplifier (1GHz - 18GHz) | 1/6/2022 | Annual | 1/6/2023 | 101639 |
| Rohde & Schwarz | FSV40 | Signal Analyzer (10Hz-40GHz) | 3/4/2022 | Annual | 3/4/2023 | 101619 |
| Rohde & Schwarz | ESW26 | EMI Test Receiver | 5/19/2022 | Annual | 5/19/2023 | 101299 |
| Rohde & Schwarz | TS-PR8 | Pre-Amplifier (30MHz - 8GHz) | 1/6/2022 | Annual | 1/6/2023 | 102327 |
| Rohde & Schwarz | ESW44 | EMI Test Receiver | 12/2/2021 | Annual | 12/2/2022 | 101570 |
| Rohde & Schwarz | ENV216 | Two-Line V-Network | 1/14/2022 | Annual | 1/14/2023 | 101364 |
| Rohde & Schwarz | TS-PR1840 | Pre-Amplifier (18GHz - 40GHz) | 4/18/2022 | Annual | 4/18/2023 | 100050 |
| Rohde & Schwarz | TC-TA18 | Cross Polarized Vivaldi Antenna (400MHz-18GHz) | 1/25/2022 | Annual | 1/25/2023 | 101063 |
| Rohde & Schwarz | HFH2-Z2 | Loop Antenna | 4/3/2022 | Annual | 4/3/2023 | 100546 |

Table 6-1. Test Equipment List

Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

| | | | |
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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCG-A2774
 IC: 579C-A2774
 FCC Classification: Ultra-Wideband Transmitter

| FCC Part Section(s) | RSS Section(s) | Test Description | Test Limit | Test Condition | Test Result | Reference |
|----------------------|-----------------------------|---|---|-------------------|-------------|------------------|
| §15.503, §15.519 (b) | RSS-220 [2] | 10dBc Bandwidth | ≥ 500MHz | RADIATED | PASS | Section 7.2, 7.3 |
| § 2.1049 | RSS-Gen [6.7] | Occupied Bandwidth | N/A | | N/A | Section 7.3 |
| §15.519 (e) | RSS-220 [5.3.1(g)] | Maximum Peak Power Spectral Density (Peak EIRP) | < 0 dBm/50MHz EIRP | | PASS | Sections 7.4.1 |
| §15.519 (c) | RSS-220 [5.3.1(d)] | Maximum Average Emission (Average EIRP) | < -41.3 dBm/MHz EIRP | | PASS | Section 7.4.2 |
| §15.519 (a)(1) | RSS-220 [5.3.1(b)] | Cease Transmission Time | See §15.519 (a)(1) and RSS-220 [5.3.1(b)] for details | | PASS | Section 7.5 |
| §15.519 (c) | RSS-220 [5.3.1(d)] | Radiated Emissions Above 960MHz | See table in §15.519 (c) and RSS-220[5.3.1(d)] for details | | PASS | Sections 7.6 |
| §15.519 (d) | RSS-220 [5.3.1(e)] | Radiated Emissions in the 1164 – 1240MHz and 1559 – 1610MHz GPS Bands | See §15.519 (d) and RSS-220 [5.3.1 (e)] for details | | PASS | Sections 7.6 |
| §15.519 (c), §15.209 | RSS-220 [3.4] RSS-Gen [8.9] | Radiate Emissions Below 960MHz | Emissions in restricted bands must meet the radiated limits detailed in §15.209 (RSS-Gen [8.9]) | | PASS | Section 7.7 |
| §15.207 | RSS-Gen [8.8] | AC Line Conducted Emissions 150kHz – 30MHz | < FCC 15.207 limits (RSS-Gen [8.8]) | AC LINE CONDUCTED | PASS | Section 7.8 |

Table 7-1. Summary of Test Results

Notes:

1. All modes of operation were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

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|---|--|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 13 of 63 |

7.2 10dBc Bandwidth Measurement

§15.503 §15.519 (b)

Test Overview and Limit

The UWB bandwidth is the frequency band bounded by the points that are 10 dB below the highest radiated emission, as based on the complete transmission system including the antenna. The upper boundary is designated F_H and the lower boundary is designated F_L . The frequency at which the highest radiated emission occurs is designated F_M .

- The center frequency, F_c , equals $(F_H + F_L)/2$
- The fractional bandwidth equals $2(F_H - F_L) / (F_H + F_L)$

The UWB bandwidth of a device operating under the provisions of this section must be contained between 3100MHz and 10,600MHz.

- a) The minimum permissible 10dBc Bandwidth is 500 MHz**
- b) Fractional bandwidth is equal or greater than 0.20**

Test Procedure Used

ANSI C63.10-2013 – Section 10.1
KDB 393764 D01 v02r01

Test Settings

1. RBW = 1MHz
2. VBW = 3MHz
3. Detector = Peak
4. Trace mode = max hold
5. Sweep = auto couple
6. The trace was allowed to stabilize

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 14 of 63 |

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

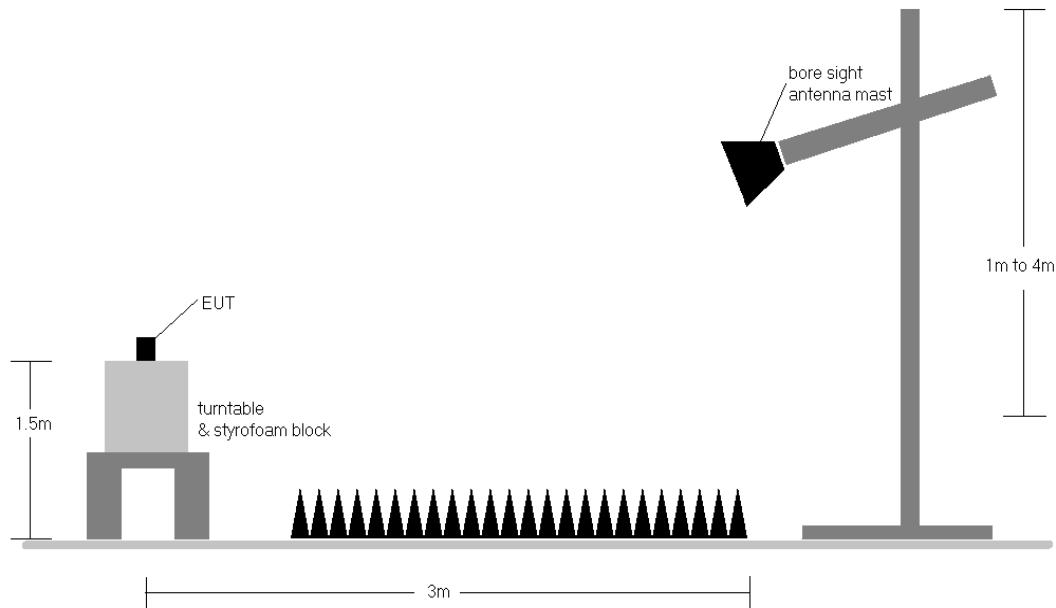


Figure 7-1. Test Setup

Test Notes

1. In those cases where the measured emission spectrum contains multiple (more than two) -10dBc points, the outermost points define the UWB bandwidth (i.e., the widest bandwidth is reported).
2. All modes of operation were investigated and the worst-case emissions are reported.

| | | | |
|---|--|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 15 of 63 |

| Frequency [GHz] | Channel | Config | Payload | F _M [GHz] | F _L [GHz] | F _H [GHz] | F _C [GHz] | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|---------|--------|---------|----------------------|----------------------|----------------------|----------------------|--------------------------|-------------------------|-------------|
| 6.5 | 5 | 0 | 125 | 6.250 | 6.226 | 6.753 | 6.489 | 526.80 | 500 | Pass |

Table 7-2. 10dBc Bandwidth Measurements (UWB, Ch.5, 6.5GHz)

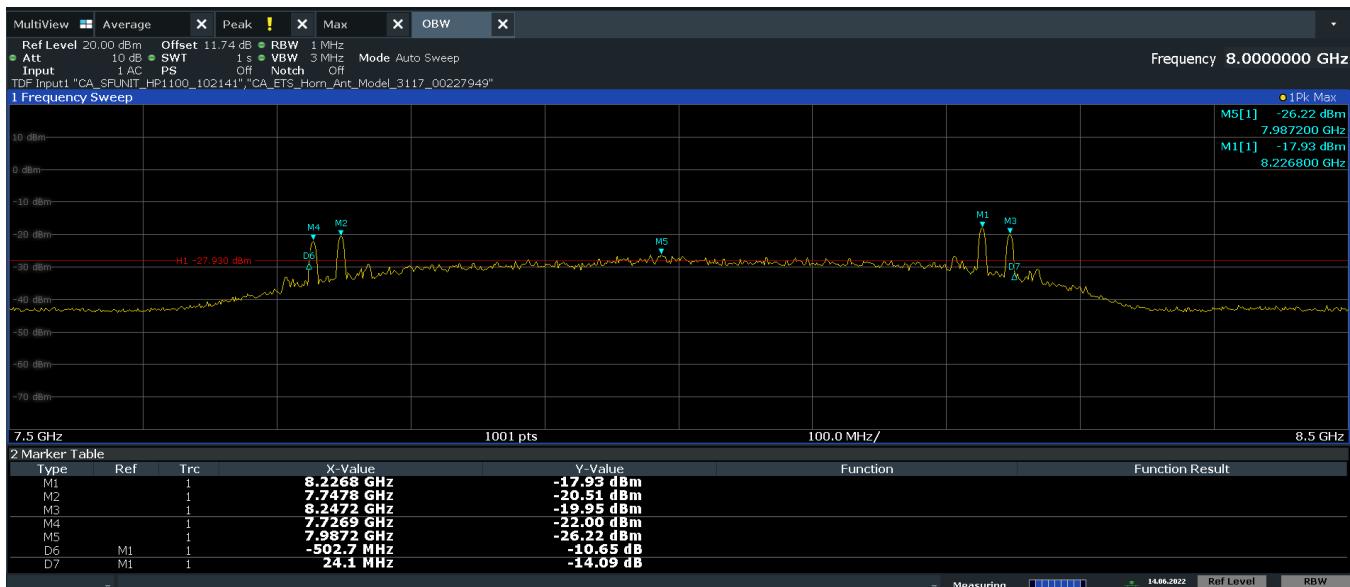
| Frequency [GHz] | Channel | Config | Payload | F _M [GHz] | F _L [GHz] | F _H [GHz] | F _C [GHz] | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|---------|--------|---------|----------------------|----------------------|----------------------|----------------------|--------------------------|-------------------------|-------------|
| 8.0 | 9 | 0 | 125 | 8.227 | 7.724 | 8.251 | 7.988 | 526.80 | 500 | Pass |

Table 7-3. 10dBc Bandwidth Measurements (UWB, Ch.9, 8GHz)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 16 of 63 |



Plot 7-1. 10dBc Bandwidth (Ch. 5, Config 0/Payload 125)



Plot 7-2. 10dBc Bandwidth (Ch. 9, Config 0/Payload 125)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 17 of 63 |

7.3 Bandwidth Measurement

RSS-220 [2], RSS-Gen [6.7]

Test Overview and Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

ANSI C63.10-2013 – Section 6.9

RSS-Gen [6.7]

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 10dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW \geq 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 18 of 63 |

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

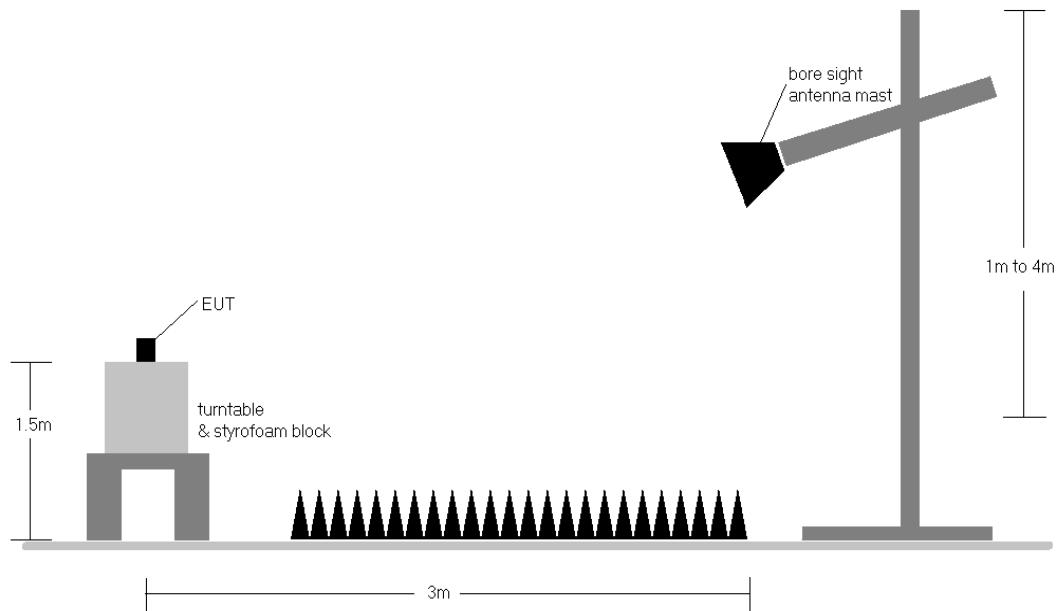


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported.

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 19 of 63 |

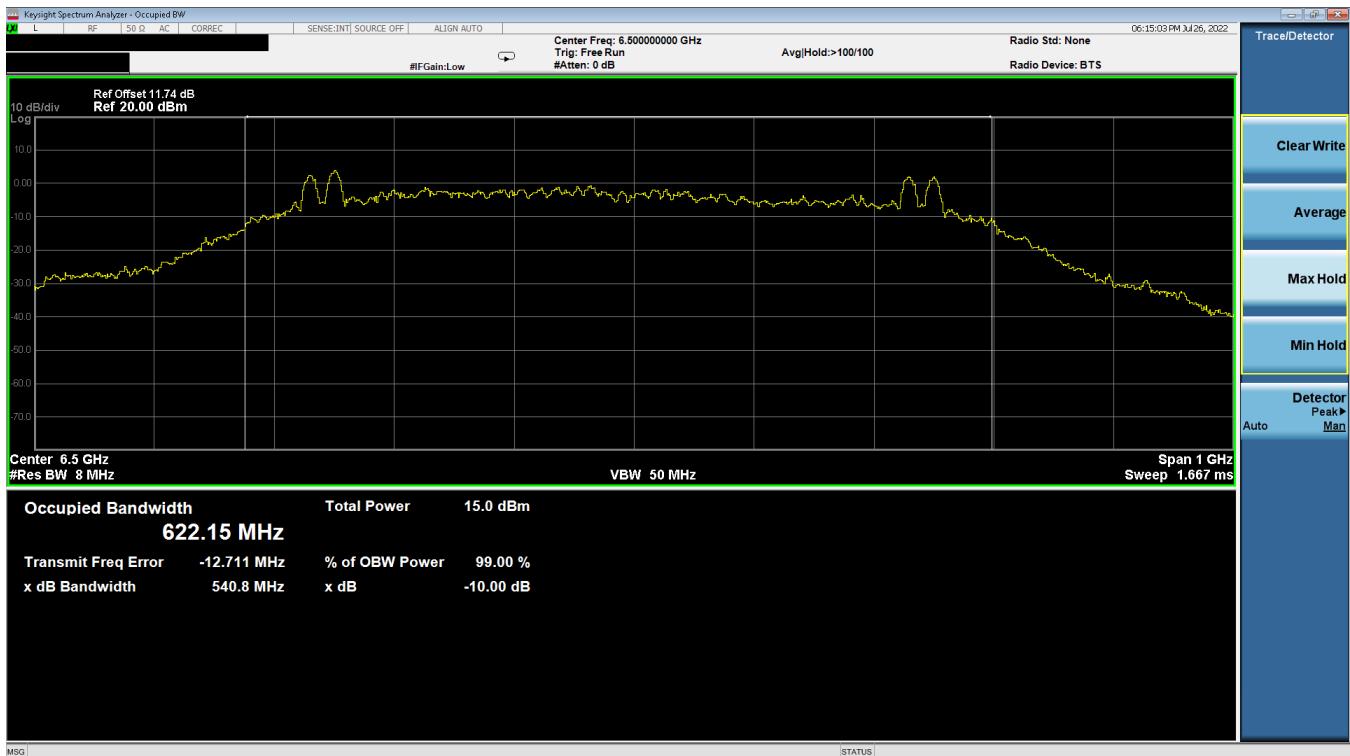
| Frequency [GHz] | Channel | Config | Payload | Measured OBW [MHz] | Measured 10dBc Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|--------------------|---------|--------|---------|--------------------------|---|-------------------------------|-------------|
| 6.5 | 5 | 0 | 125 | 622.150 | 540.80 | 500 | Pass |

Table 7-4. ISED 10dBc Bandwidth & 99% OBW Measurements (UWB, Ch.5, 6.5GHz)

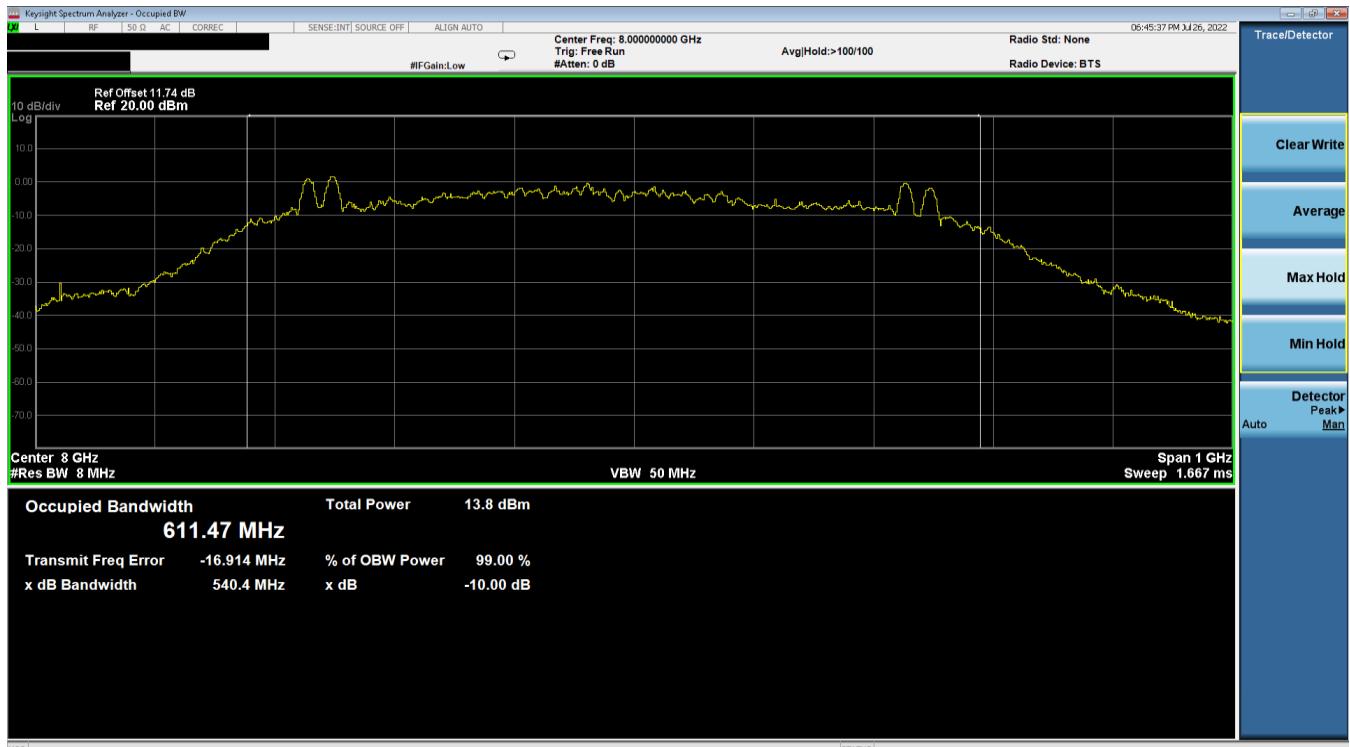
| Frequency [GHz] | Channel | Config | Payload | Measured OBW [MHz] | Measured 10dBc Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|--------------------|---------|--------|---------|--------------------------|---|-------------------------------|-------------|
| 8.0 | 9 | 0 | 125 | 611.470 | 540.40 | 500 | Pass |

Table 7-5. ISED 10dBc Bandwidth & 99% OBW Measurements (UWB, Ch.9, 8GHz)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 20 of 63 |



Plot 7-3. ISED 10dBc Occupied Bandwidth & 99% (Ch. 5, Config 0/Payload 125)



Plot 7-4. ISED 10dBc Occupied Bandwidth & 99 (Ch. 9, Config 0/Payload125)

| | | | | |
|---|--|--------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 21 of 63 | |

7.4 Maximum Peak and Average Radiated Power (EIRP)

§15.519 (c) §15.519 (e); RSS-220 [5.3.1(d)] RSS-220 [5.3.1(g)]

Test Overview and Limits

15.519 (e) There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, F_M . That limit is 0 dBm for Peak EIRP.

15.519 (c) The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

| Frequency [MHz] | EIRP [dBm] |
|-----------------|------------|
| 3100-10600 | -41.3 |

Table 7-6. FCC 15.519 Average EIRP limit

| Frequency [MHz] | EIRP [dBm] |
|-----------------|------------|
| 4750-10600 | -41.3 |

Table 7-7. RSS-220 Average EIRP limit

Test Procedure Used

ANSI C63.10-2013 – Section 10.3.5 and 10.3.7

KDB 393764 D01 v02r01

Test Settings

Average EIRP Measurements

1. RBW = 1MHz
2. VBW = 3MHz
3. Detector = Average (RMS)
4. Sweep time = No more than a 1 ms integration period over each measurement bin
5. Trace mode = Max hold
6. Trace was allowed to stabilize

Peak EIRP Measurements

1. RBW = 50MHz
2. VBW = 50MHz
3. Detector = Peak
4. Sweep time = auto couple
5. Trace mode = Max hold
6. Trace was allowed to stabilize

| | | | |
|---|---|---------------------------------------|------------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 22 of 63 V 10.5 12/15/2021 |

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

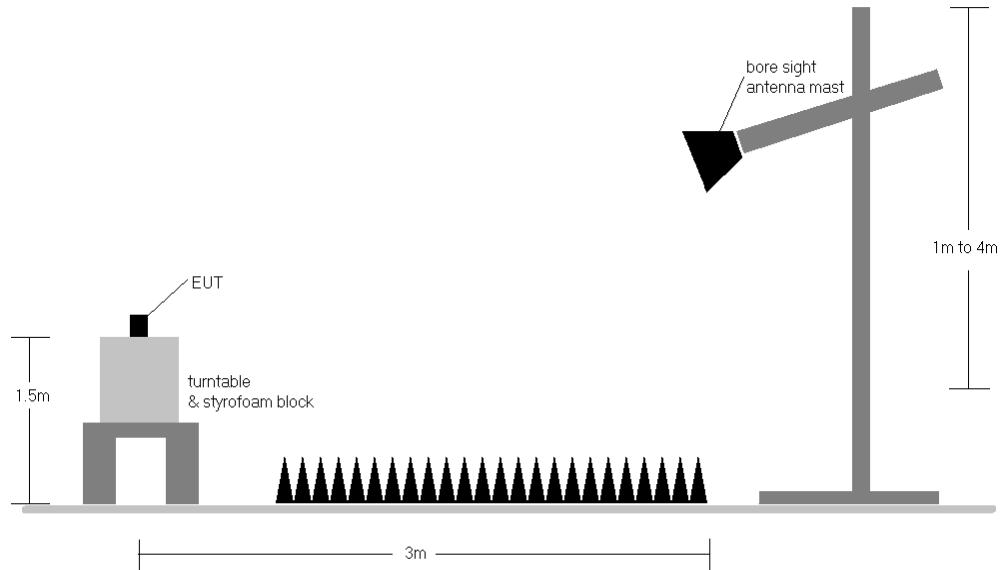


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
2. All modes of operation were investigated and the worst-case emissions are reported.

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 23 of 63 |

7.4.1 Peak Radiated Power Measurement

§15.519(e)); RSS-220 [5.3.1(g)]

| Frequency [GHz] | Channel | Config | Payload | Antenna Polarity [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | F _M [GHz] | Peak EIRP [dBm/50MHz] | Peak EIRP Limit [dBm/50MHz] | Margin [dB] |
|-----------------|---------|--------|---------|------------------------|---------------------|----------------------------|----------------------|-----------------------|-----------------------------|-------------|
| 6.5 | 5 | 0 | 125 | V | 249 | 210 | 6.2404 | -5.16 | 0.00 | -5.16 |

Table 7-8. Peak EIRP Measurements (Channel 5)

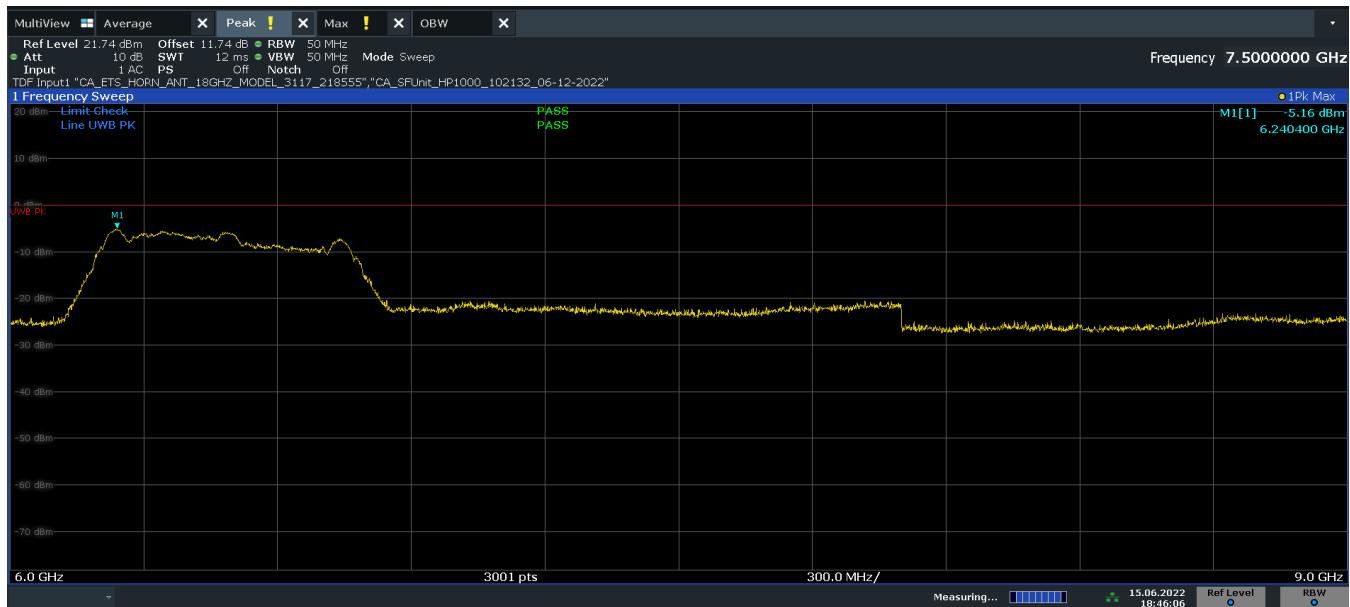
| Frequency [GHz] | Channel | Config | Payload | Antenna Polarity [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | F _M [GHz] | Peak EIRP [dBm/50MHz] | Peak EIRP Limit [dBm/50MHz] | Margin [dB] |
|-----------------|---------|--------|---------|------------------------|---------------------|----------------------------|----------------------|-----------------------|-----------------------------|-------------|
| 8.0 | 9 | 0 | 125 | V | 150 | 299 | 8.2527 | -2.33 | 0.00 | -2.33 |

Table 7-9. Peak EIRP Measurements (Channel 9)

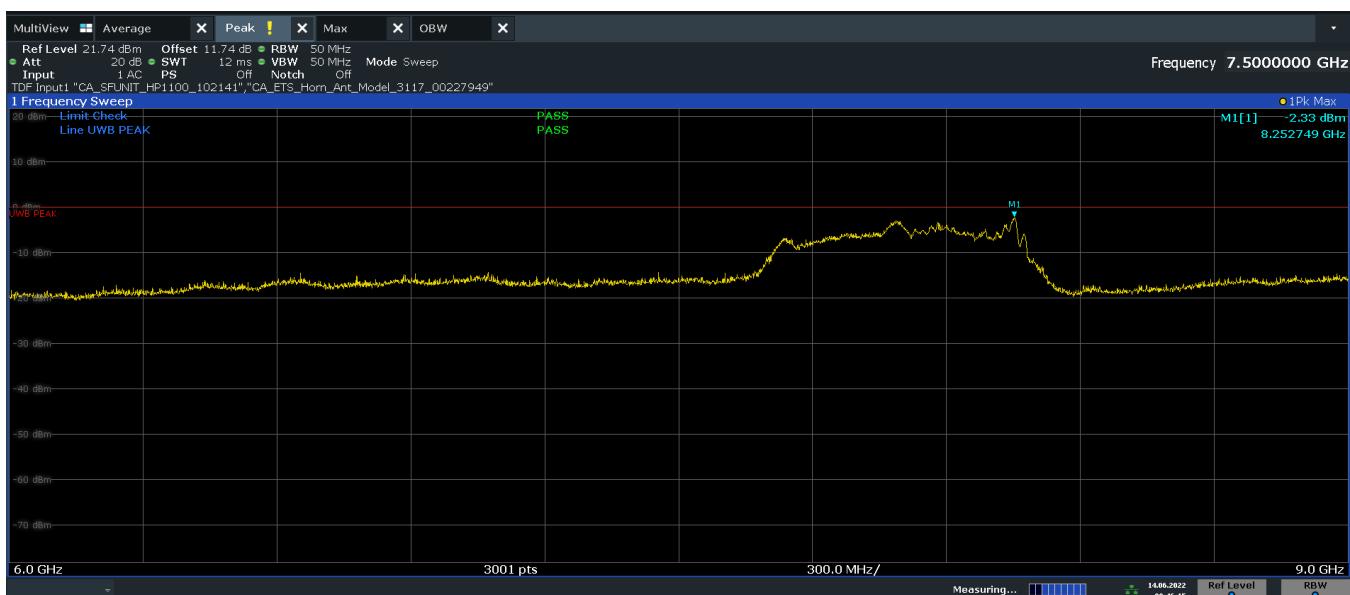
| | | | | | |
|---|--|--------------------|--|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | | | |

V 10.5 12/15/2021

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Plot 7-5. Peak Radiated Power (Ch. 5, Config 0/Payload 125)



Plot 7-6. Peak Radiated Power (Ch. 9, Config 0/Payload 125)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 25 of 63 |



7.4.2 Average Radiated Power Measurement

§15.519(c)); RSS-220 [5.3.1(d)]

| Frequency [GHz] | Channel | Config | Payload | Antenna Polarity [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | F _M [GHz] | Average EIRP [dBm/MHz] | Average EIRP Limit [dBm/MHz] | Margin [dB] |
|-----------------|---------|--------|---------|------------------------|---------------------|----------------------------|----------------------|------------------------|------------------------------|-------------|
| 6.5 | 5 | 0 | 125 | V | 249 | 210 | 6.2340 | -42.40 | -41.30 | -1.10 |

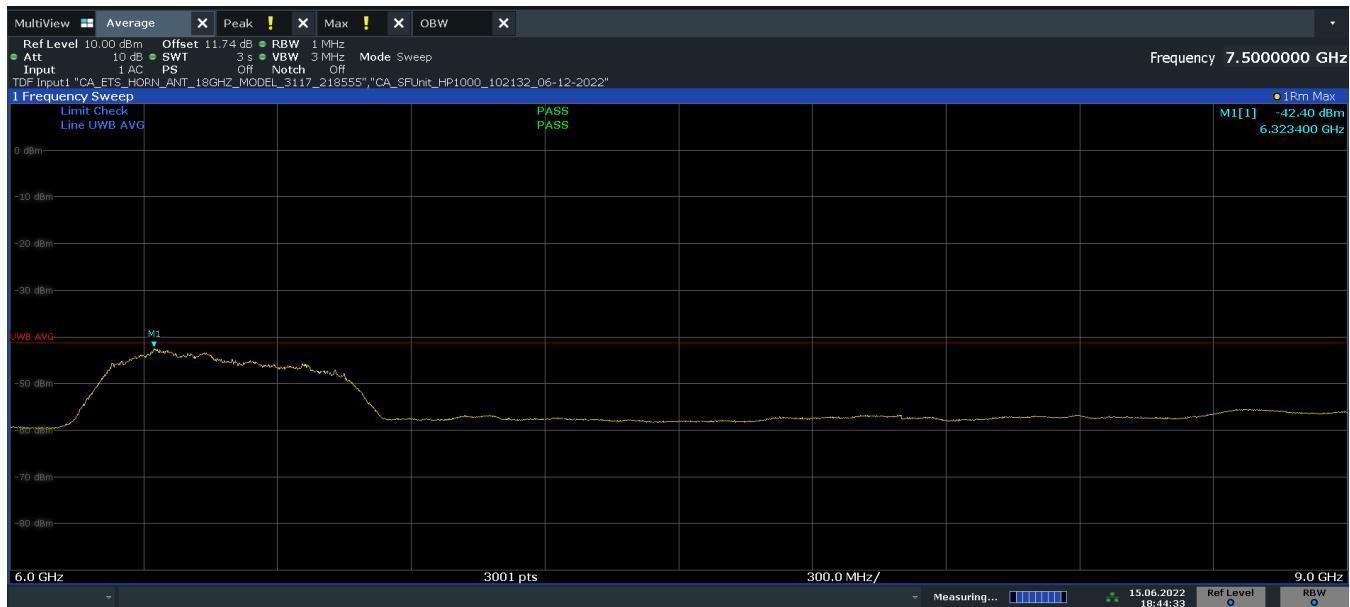
Table 7-10. Average EIRP Measurements (Channel 5)

| Frequency [GHz] | Channel | Config | Payload | Antenna Polarity [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | F _M [GHz] | Average EIRP [dBm/MHz] | Average EIRP Limit [dBm/MHz] | Margin [dB] |
|-----------------|---------|--------|---------|------------------------|---------------------|----------------------------|----------------------|------------------------|------------------------------|-------------|
| 8.0 | 9 | 0 | 125 | V | 150 | 299 | 8.0028 | -42.46 | -41.30 | -1.16 |

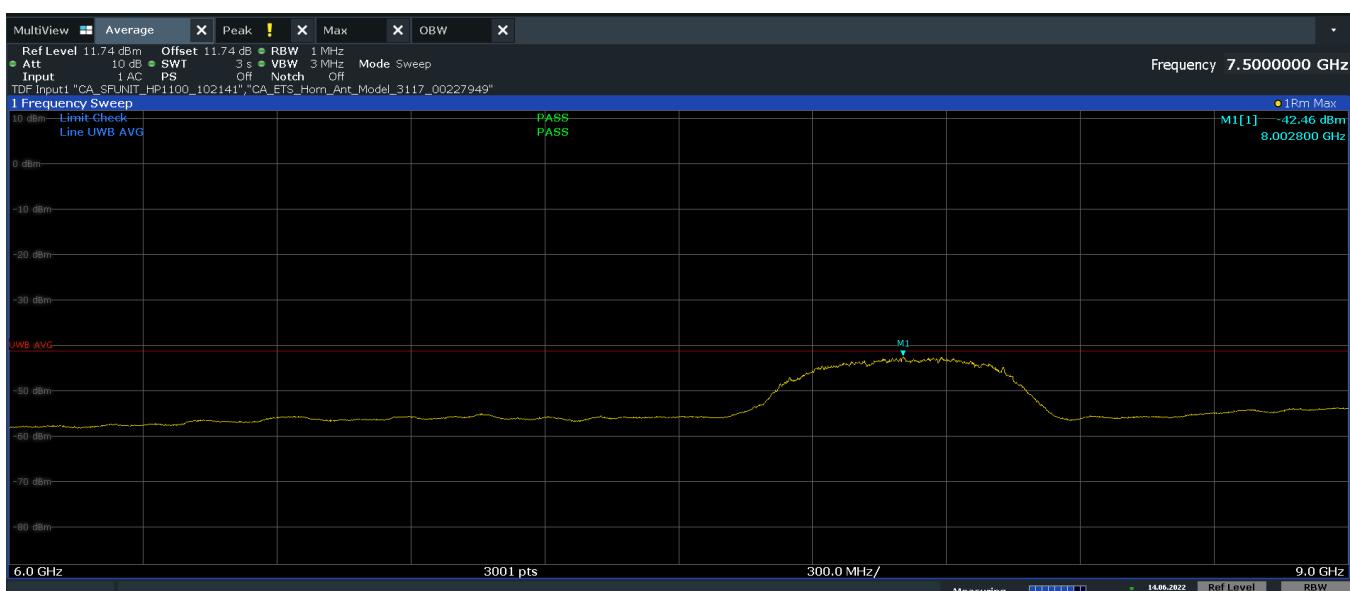
Table 7-11. Average EIRP Measurements (Channel 9)

| | | | |
|---|------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 26 of 63 |

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Plot 7-7. Average Radiated Power (Ch. 5, Config 0/Payload 125)



Plot 7-8. Average Radiated Power (Ch. 9, Config 0/Payload 125)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 27 of 63 |

7.5 Cease Transmission Time

§15.519(a)(1); RSS-220 [5.3.1(b)]

Test Overview and Limit

A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgement of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

Test Procedures Used

KDB 393764 D01 v02r01

Test Settings

1. RBW = 1MHz
2. VBW = 3MHz
3. Span = Zero Span Mode
4. Sweep time shall be sufficient to demonstrate EUTs compliance with the rule part.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

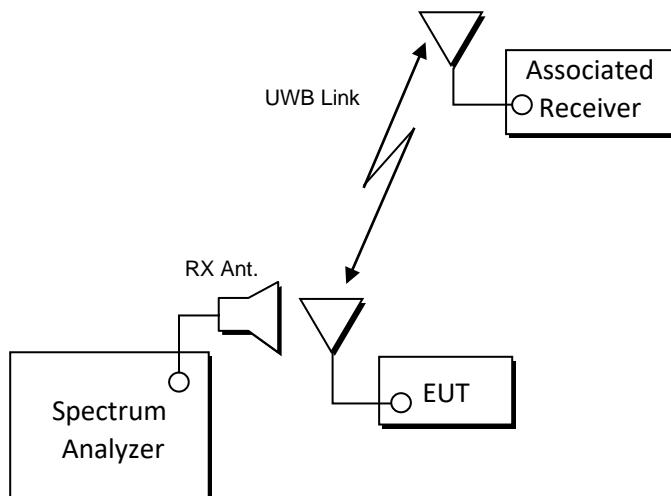


Figure 7-4. Test Setup

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 28 of 63 |

Test Configurations

The EUT was monitored in 2 different test configurations:

- Mode 1: EUT initiates the UWB link to the associated receiver (phone),
 - Associated receiver ends the link, and EUT ceases transmission of any information other than periodic signals (polling) for use in the establishment or re-establishment of a communications link with an associated receiver
- Mode 2: The associated receiver (phone) initiates the UWB link to the EUT
 - EUT ends the link, and stops sending acknowledgements to associated receiver

Result

| Parameter | Limit | Result |
|------------------------|---|--------|
| Cessation Time - Mode1 | 1) The UWB intentional radiator shall cease transmission within 10 seconds 2) An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting. | Pass |
| Cessation Time - Mode2 | 1) The UWB intentional radiator shall cease transmission within 10 seconds 2) An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting. | Pass |

Plots Description

- Cessation Time - Mode1 (Mode2) plot:
 - Marker 1 shows start time of initiating UWB link
 - Marker 2 shows stop time of sending acknowledgement
- Zoom in Cessation Time - Mode1 plot:
 - Marker 1 shows EUT traffic level
 - Marker 2 shows Associated receiver (Phone) traffic level
 - Marker 3 shows Associated receiver (Phone) Acknowledgement signal
 - Marker 4 shows EUT Polling signal (Before ceasing transmission)
 - Marker 5 shows EUT Polling signal (After ceasing transmission)

| | | | |
|---|--|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 29 of 63 |

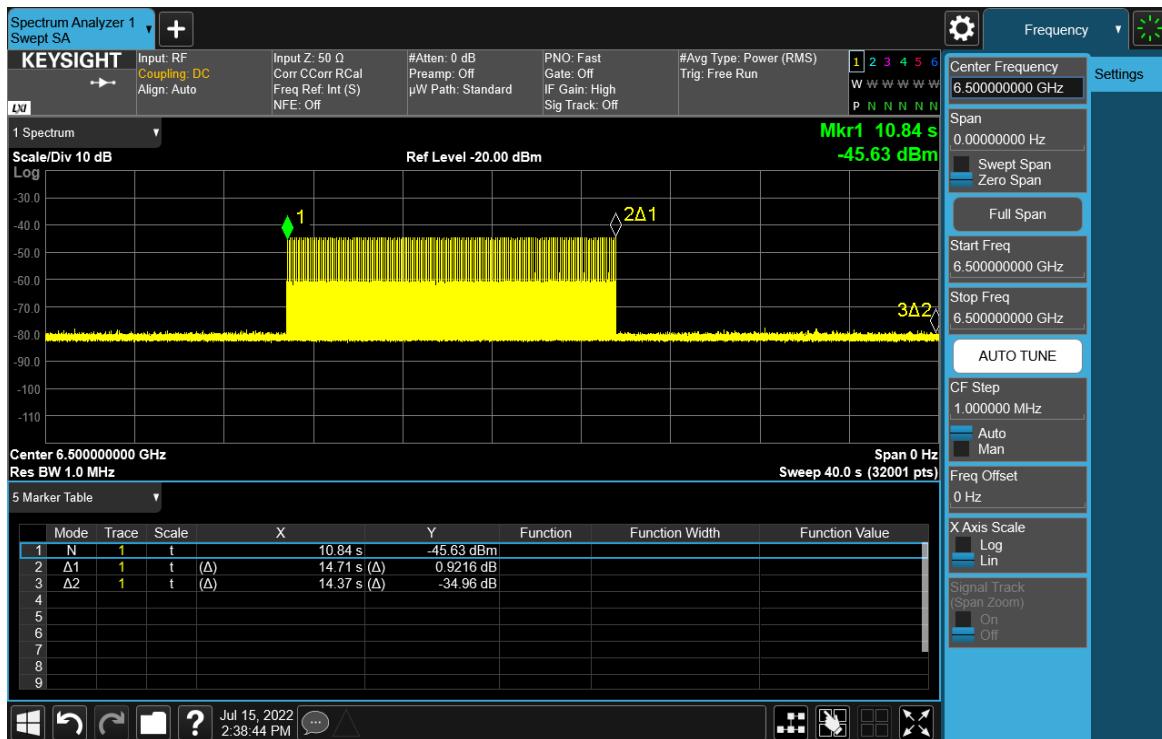


Plot 7-9. Cessation Time – Mode1 (Ch. 5, 6.5 GHz)

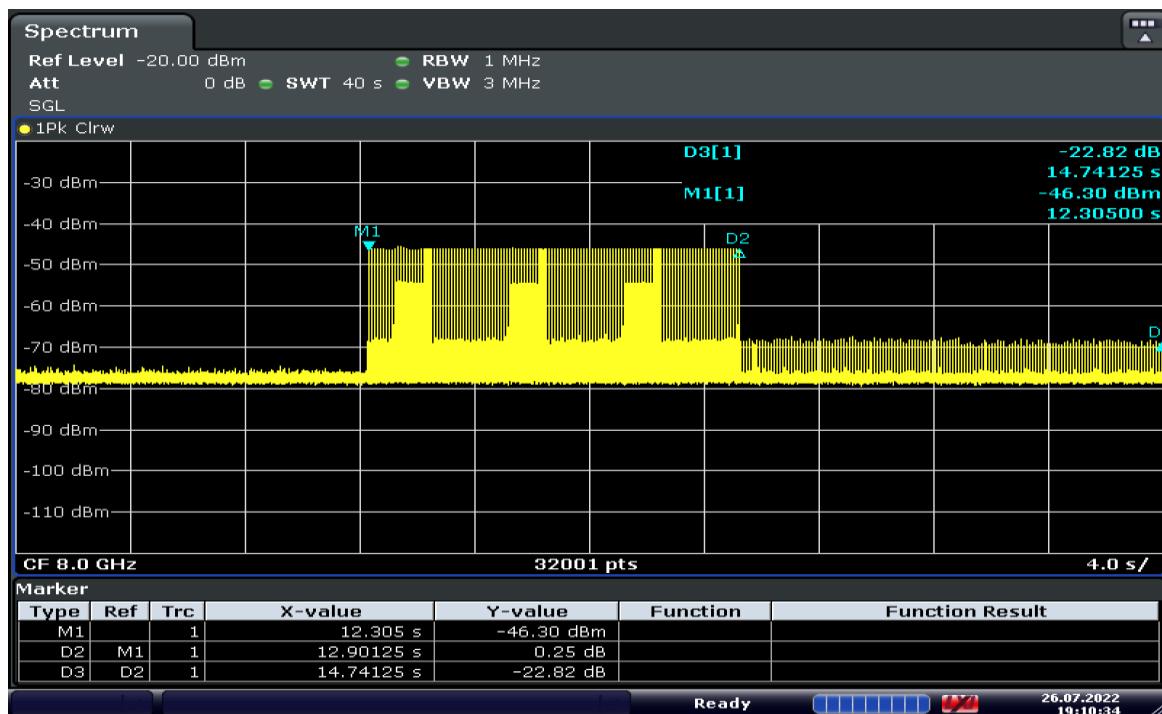


Plot 7-10. Zoom in Cessation Time – Mode1 (Ch. 5, 6.5 GHz)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 30 of 63 |

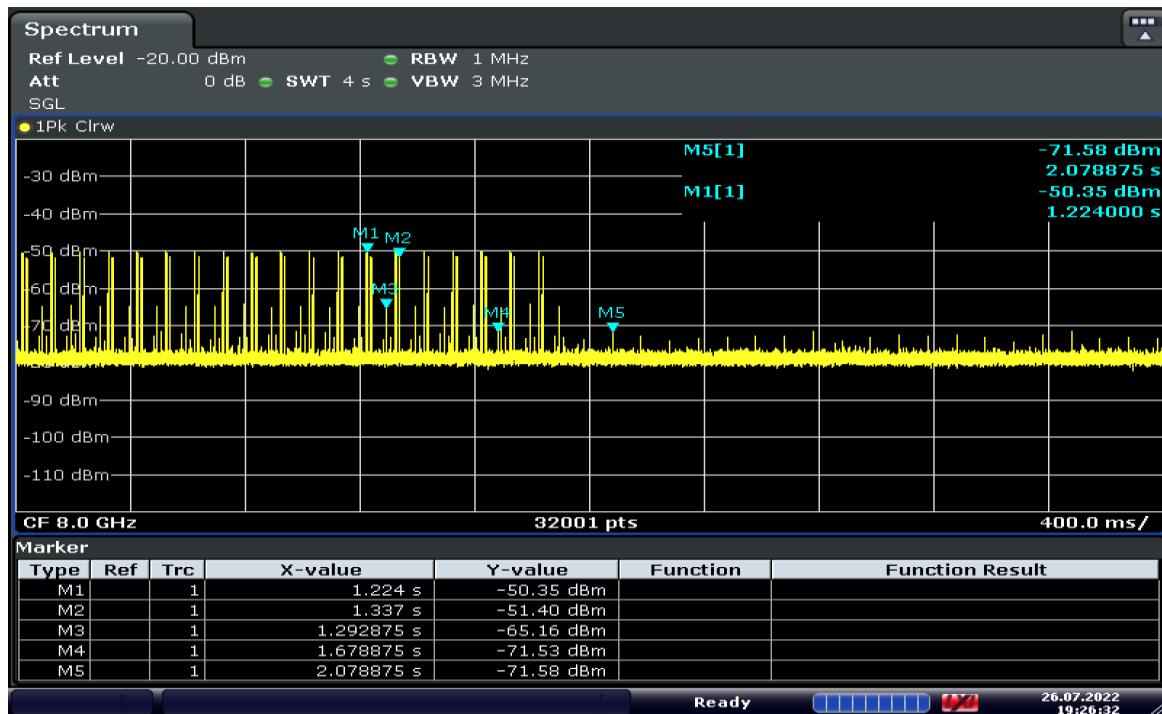


Plot 7-11. Cessation Time – Mode2 (Ch. 5, 6.5 GHz)

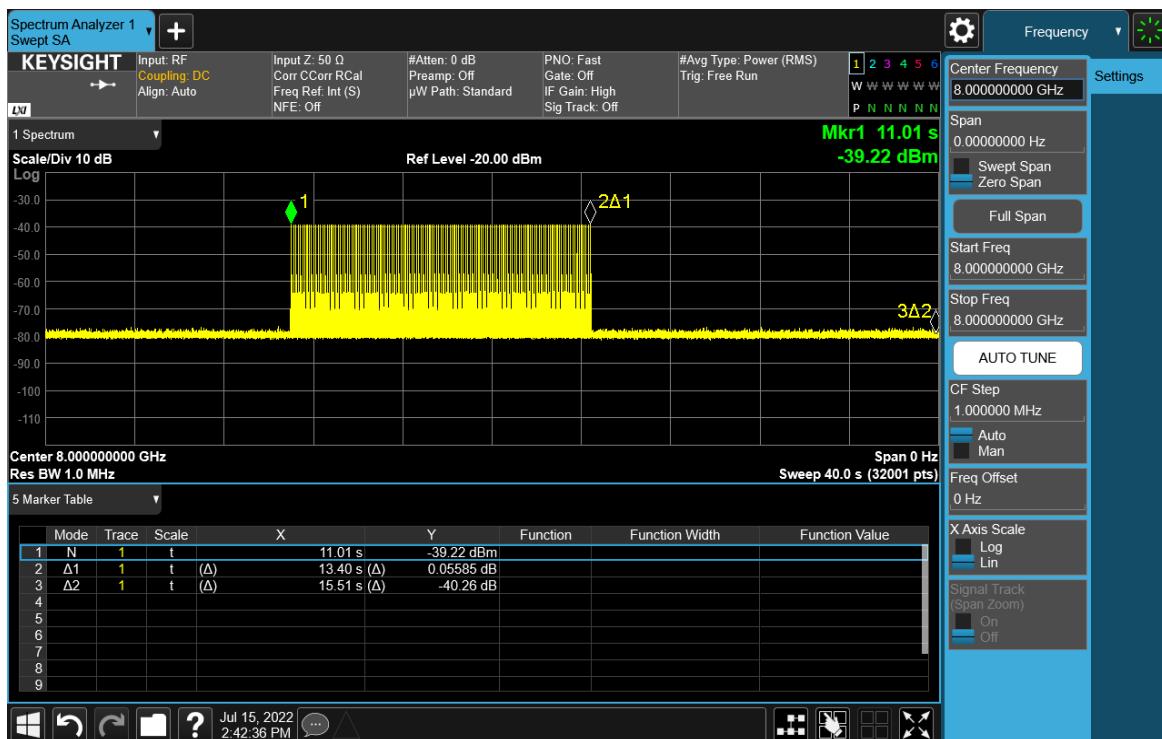


Plot 7-12. Cessation Time – Mode1 (Ch. 9, 8 GHz)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 31 of 63 |



Plot 7-13. Zoom in Cessation Time – Mode1 (Ch. 9, 8 GHz)



Plot 7-14. Cessation Time – Mode2 (Ch. 9, 8 GHz)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 32 of 63 |

7.6 Radiated Spurious Emission Measurements

§15.519 (c) §15.519 (d); RSS-220 [5.3.1(d)] RSS-220 [5.3.1(e)]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions must not exceed the average limits shown in Table 7-12 and Table 7-13 per Section 15.519 (C) and RSS-220[5.3.1(d)] when measured using a resolution bandwidth of 1 MHz:

| Frequency [MHz] | EIRP [dBm] |
|-----------------|------------|
| 960-1610 | -75.3 |
| 1610-1990 | -63.3 |
| 1990-3100 | -61.3 |
| 3100-10600 | -41.3 |
| Above 10600 | -61.3 |

Table 7-12. FCC 15.519 Radiated Spurious Emissions Limits

| Frequency [MHz] | EIRP [dBm] |
|-----------------|------------|
| 960-1610 | -75.3 |
| 1610-4750 | -70.0 |
| 4750-10600 | -41.3 |
| Above 10600 | -61.3 |

Table 7-13. RSS-220 Radiated Spurious Emissions Limits

All out of band emissions must not exceed the average limits shown in Table 7-14 per Section 15.519 (d) and RSS-220(5.3.1)(e) when measured using a resolution bandwidth greater than or equal to 1 kHz. The measurements shall demonstrate compliance with the stated limits at whatever resolution bandwidth is used.

| Frequency [MHz] | EIRP [dBm] |
|-----------------|------------|
| 1164-1240 | -85.3 |
| 1559-1610 | -85.3 |

Table 7-14. FCC 15.519/RSS-220 Radiated Spurious Emissions Limits for GPS frequency bands

Test Procedures Used

ANSI C63.10-2013 – Section 10.3

KDB 393764 D01 v02r01

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 33 of 63 |

Test Settings

Average RSE Measurements

1. RBW = 1MHz (30kHz for emissions in the GPS band)
2. VBW = 3MHz (100kHz for emissions in the GPS band)
3. Detector = Average (RMS)
4. Sweep time = No more than a 1 ms integration period over each measurement bin
5. Trace mode = Max hold
6. Trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

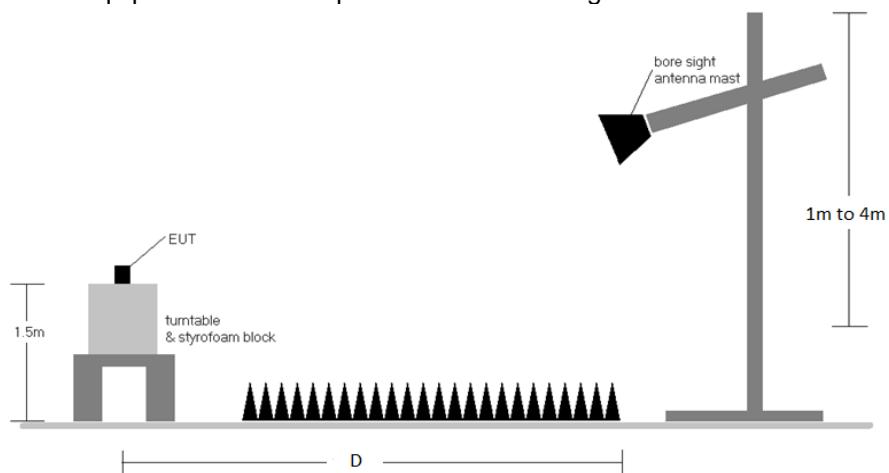


Figure 7-5. Radiated Test Setup - Above 960MHz

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported.
2. This unit was tested with its standard battery.
3. The RBW for measurements in the GPS Bands were reduced to 30kHz in order to show compliance.
4. D is the measurement test distance and emissions from 960MHz - 18GHz were measured at 0.6 meter test distance while emissions above 18GHz were measured at 0.5 meter test distance with the application of a distance correction factor.
5. The " - " shown in the following RSE tables are used to denote a noise floor measurement.
6. 6GHz - 9GHz RSE is covered in EIRP section (Section 7.4).

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 34 of 63 |

Sample Calculations

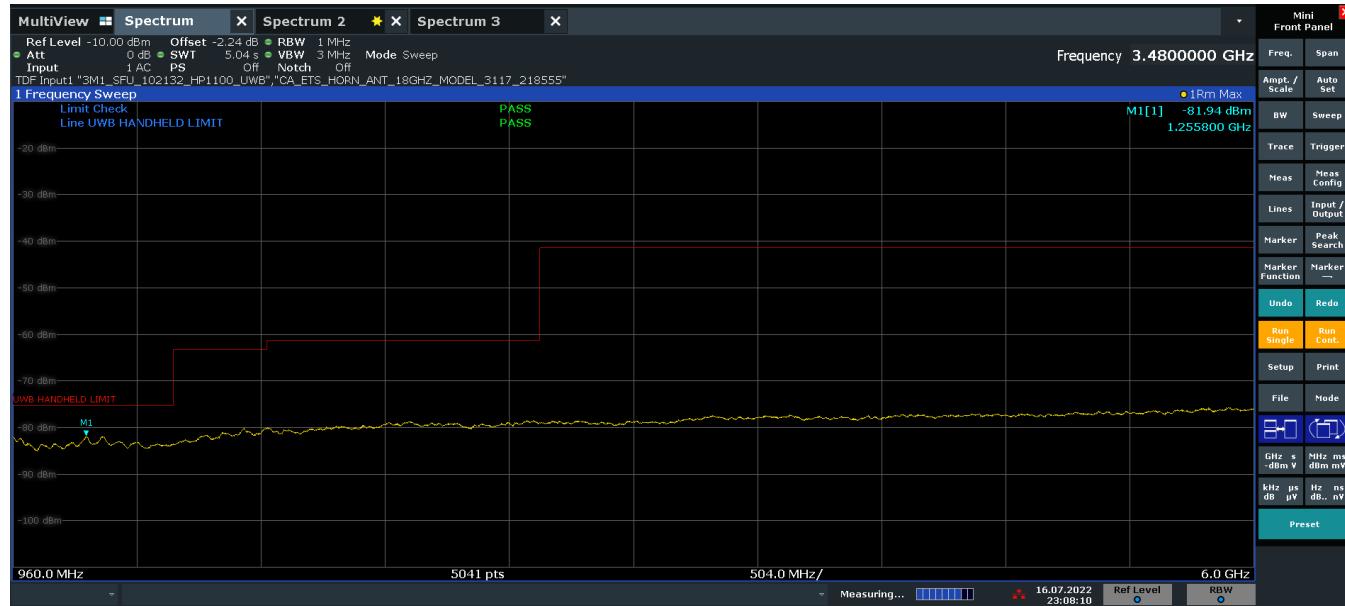
Determining Spurious Emissions Levels

- $E \text{ [dB}\mu\text{V/m]} = \text{Analyzer level } \text{ [dBm]} + 107 + \text{AFCL } \text{ [dB/m]}$
- $\text{Spurious Emission Level } \text{ [dBm]} = E \text{ [dB}\mu\text{V/m]} + 20 \log (D_{\text{Meas}}) - 104.8$
- $\text{Spurious Emission Level } \text{ [dBm]} = \text{Analyzer Level } \text{ [dBm]} + \text{AFCL } \text{ [dB/m]} + \text{Conversion Factor } \text{ [dB]}$
- $\text{AFCL } \text{ [dB/m]} = (\text{Antenna Factor } \text{ [dB/m]} + \text{Cable Loss } \text{ [dB]} + \text{Attenuator } \text{ [dB]}) - \text{Preamplifier Gain } \text{ [dB]}$
- $\text{Conversion Factor } \text{ [dB]} = 107 - 104.8 + 20 \log (D_{\text{Meas}})$
- $\text{Margin } \text{ [dB]} = \text{Spurious Emission Level } \text{ [dBm]} - \text{Limit } \text{ [dBm]}$

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 35 of 63 |

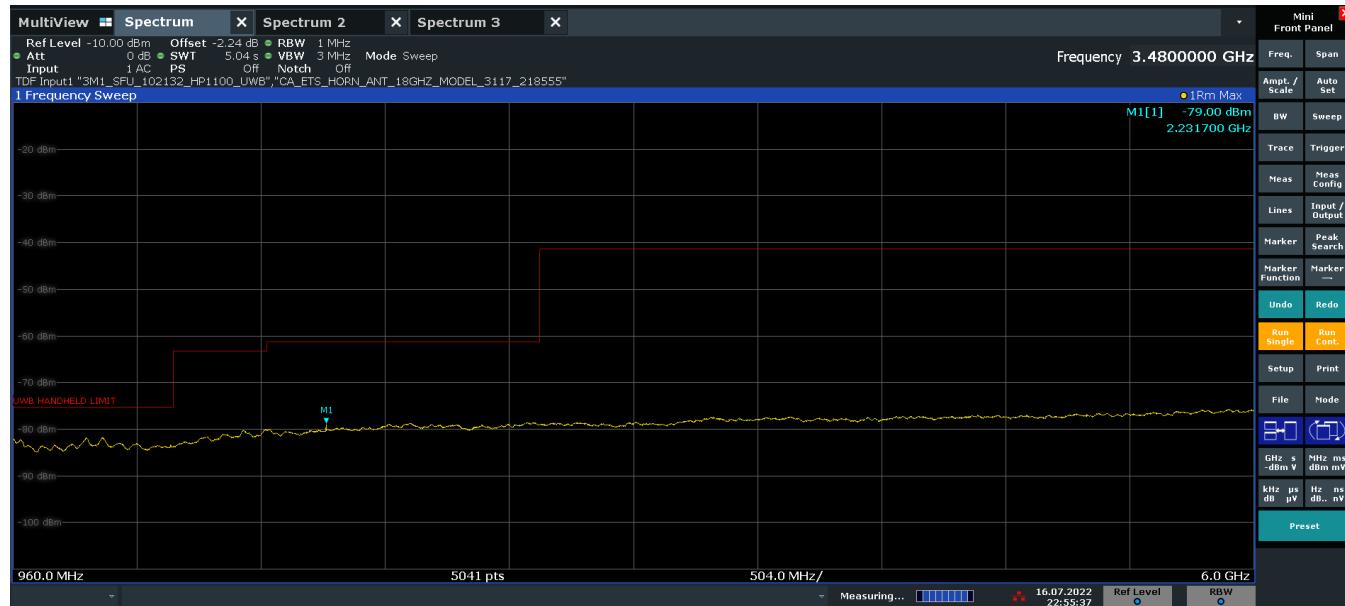
Radiated Spurious Emission Measurements (960MHz – 18GHz)

§15.519(c); RSS-220 [5.3.1(d)]



23:08:11 16.07.2022

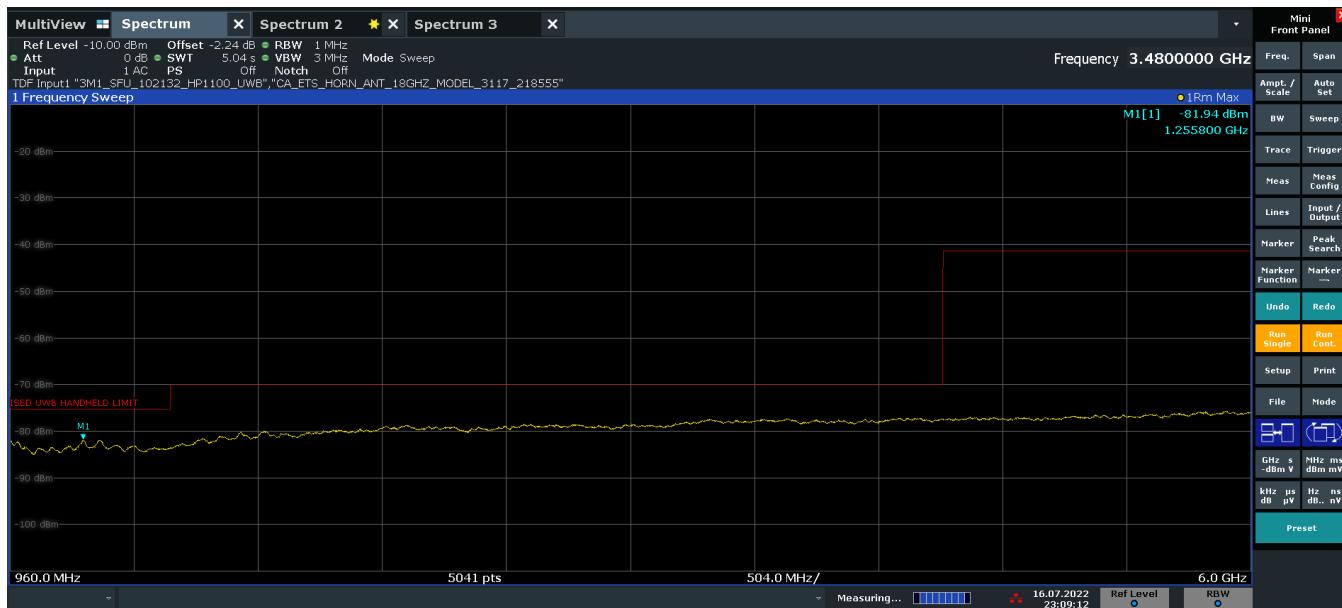
Plot 7-15. FCC Radiated Spurious Emission 960-6000MHz (Ch. 5, Config 0, Payload 125 Ant. Pol. H)



22:55:37 16.07.2022

Plot 7-16. FCC Radiated Spurious Emissions 960-6000MHz (Ch. 5, Config 0, Payload 125 Ant. Pol. V)

| | | | | |
|---|--|--------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | | Page 36 of 63 |

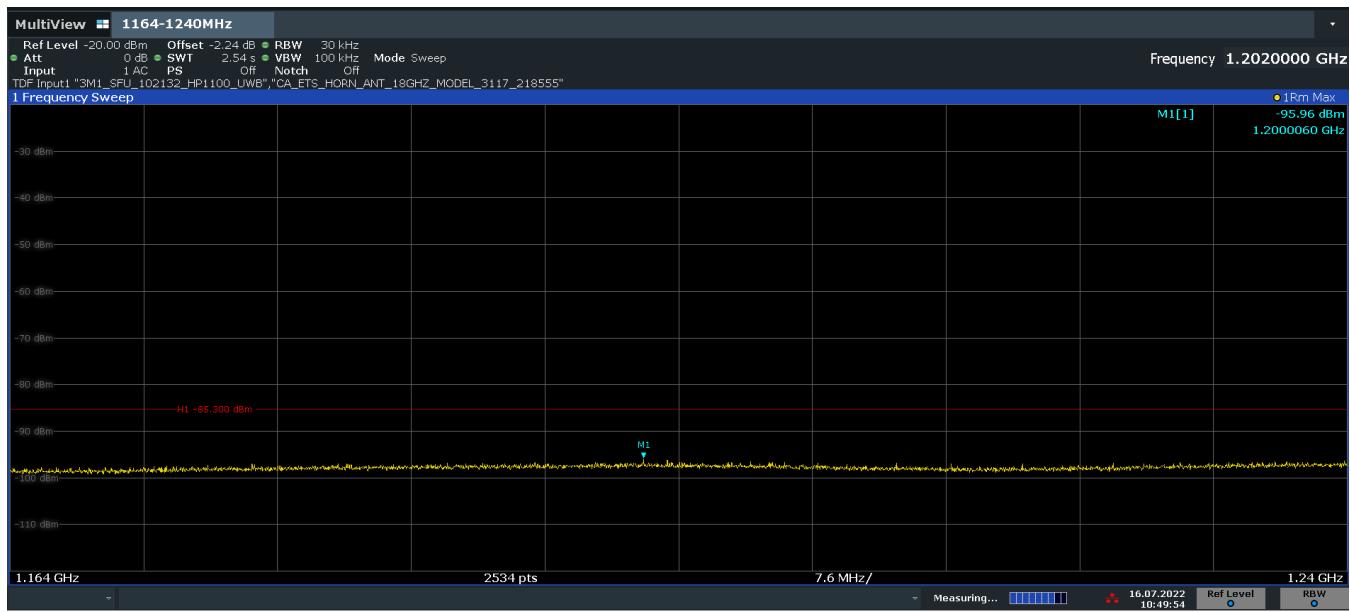


Plot 7-17. ISED Radiated Spurious Emission 960-6000MHz (Ch. 5, Config 0, Payload 125 Ant. Pol. H)

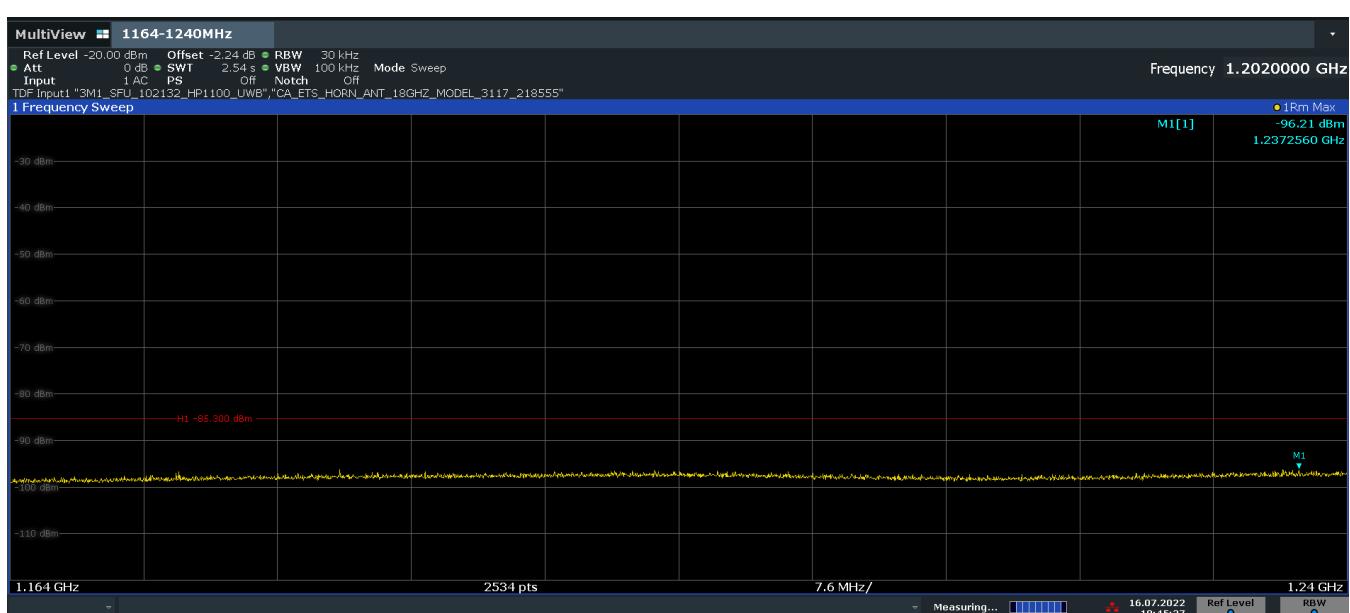


Plot 7-18. ISED Radiated Spurious Emission 960-6000MHz (Ch. 5, Config 0, Payload 125 Ant. Pol. V)

| | | | | |
|---|--|--------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 37 of 63 | |

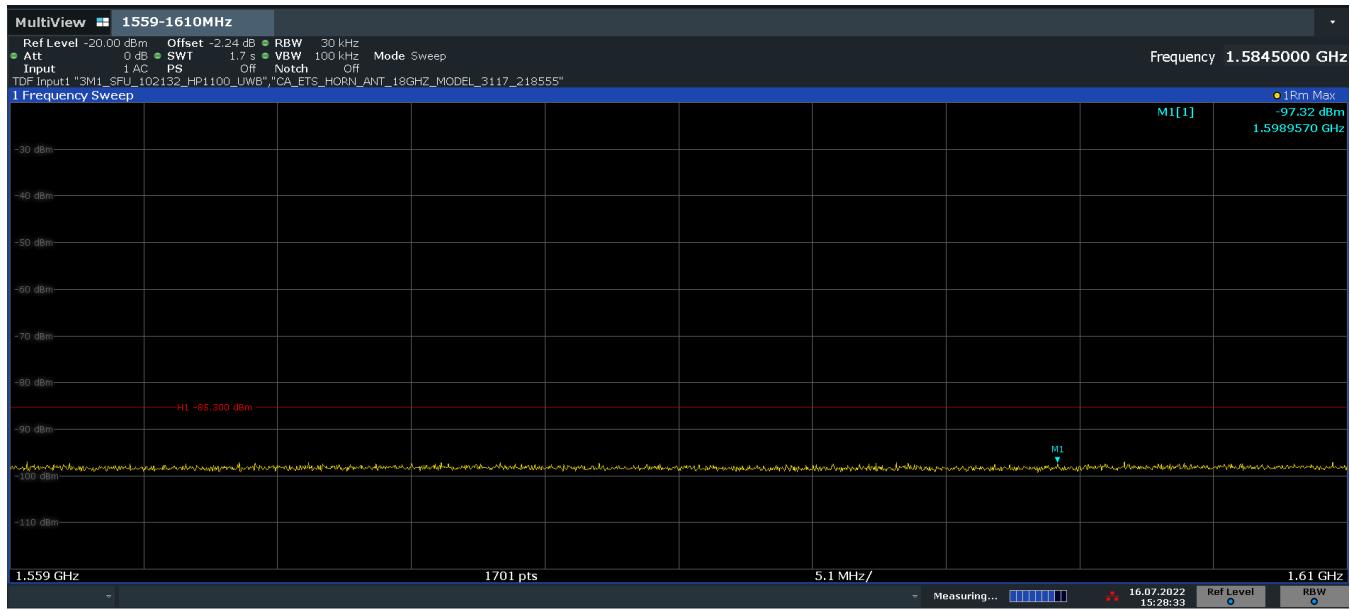


Plot 7-19. Radiated Spurious Emission 1164-1240MHz (Ch. 5, Config 0, Payload 125 Ant. Pol. H)

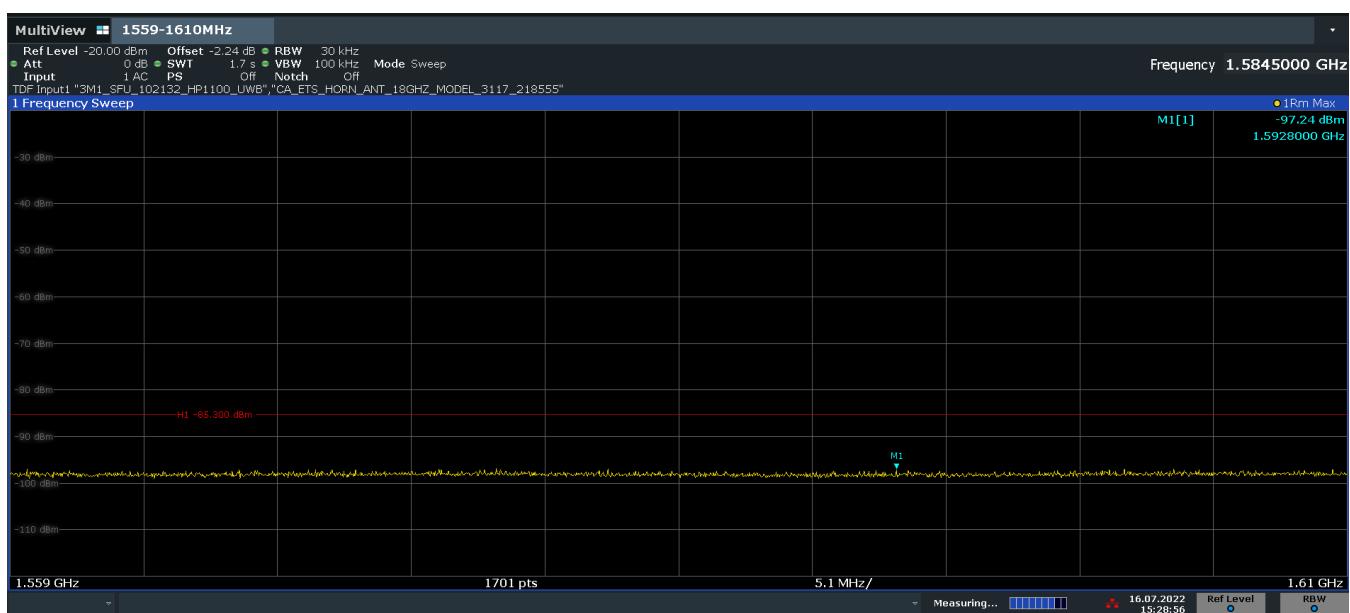


Plot 7-20. Radiated Spurious Emission 1164-1240MHz (Ch. 5, Config 0, Payload 125 Ant. Pol. V)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 38 of 63 |

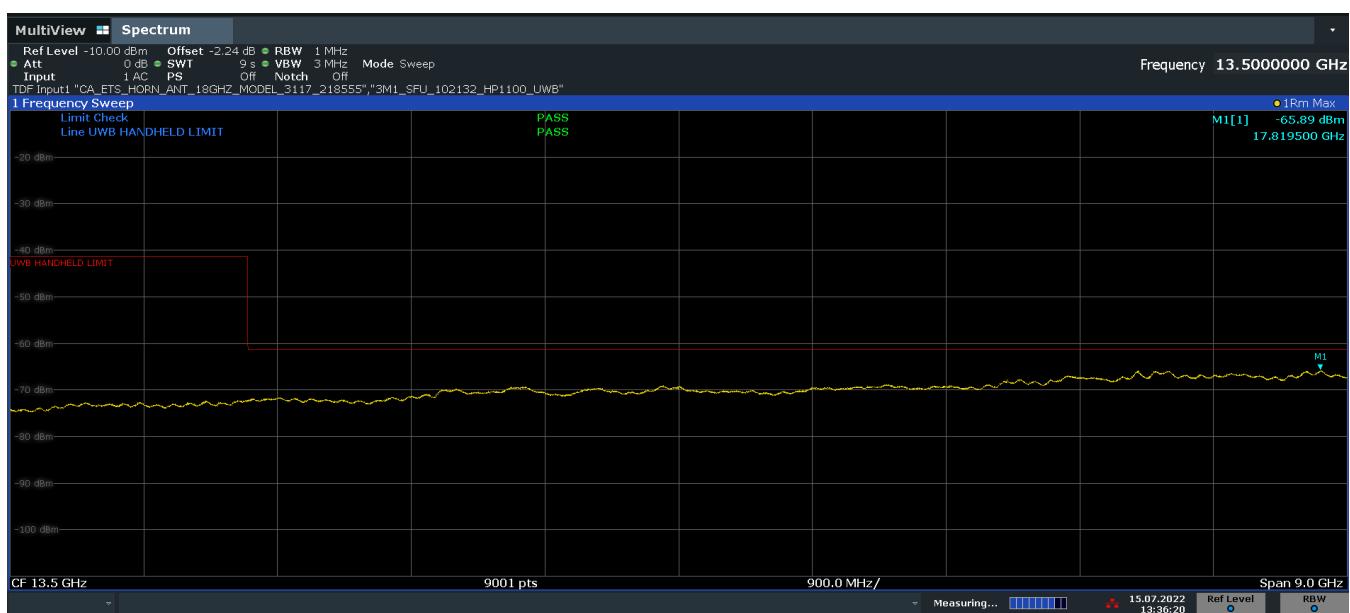
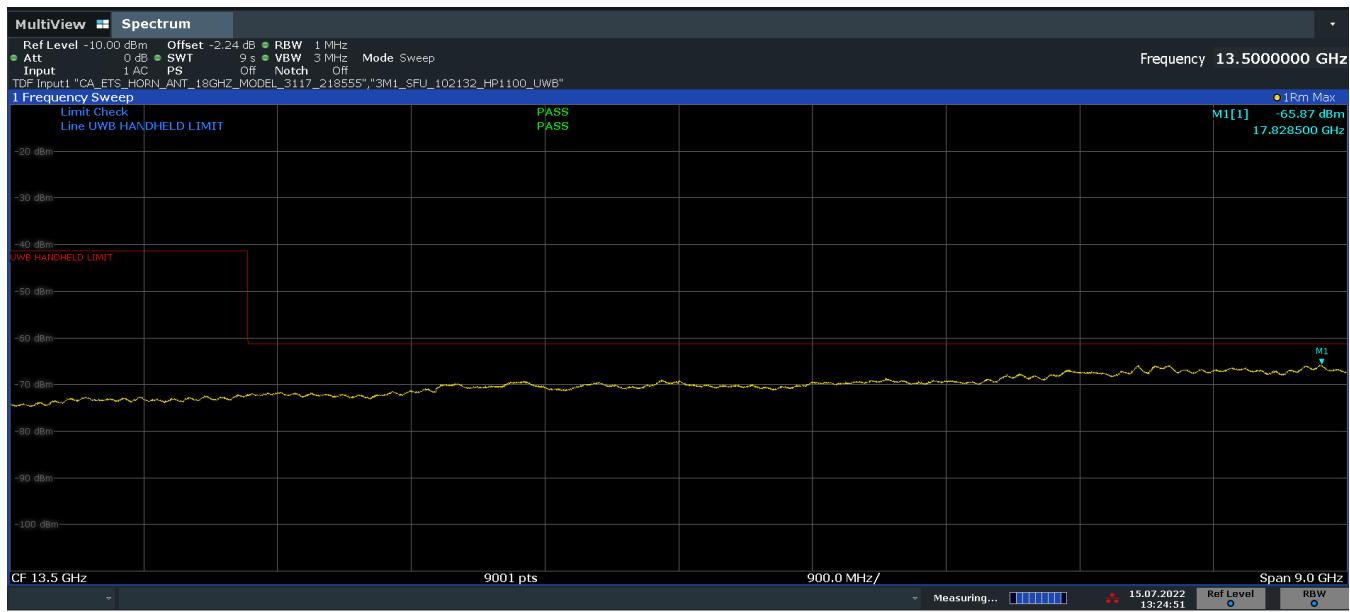


Plot 7-21. Radiated Spurious Emission 1559-1610MHz (Ch. 5, Config 0, Payload 125 Ant. Pol. H)



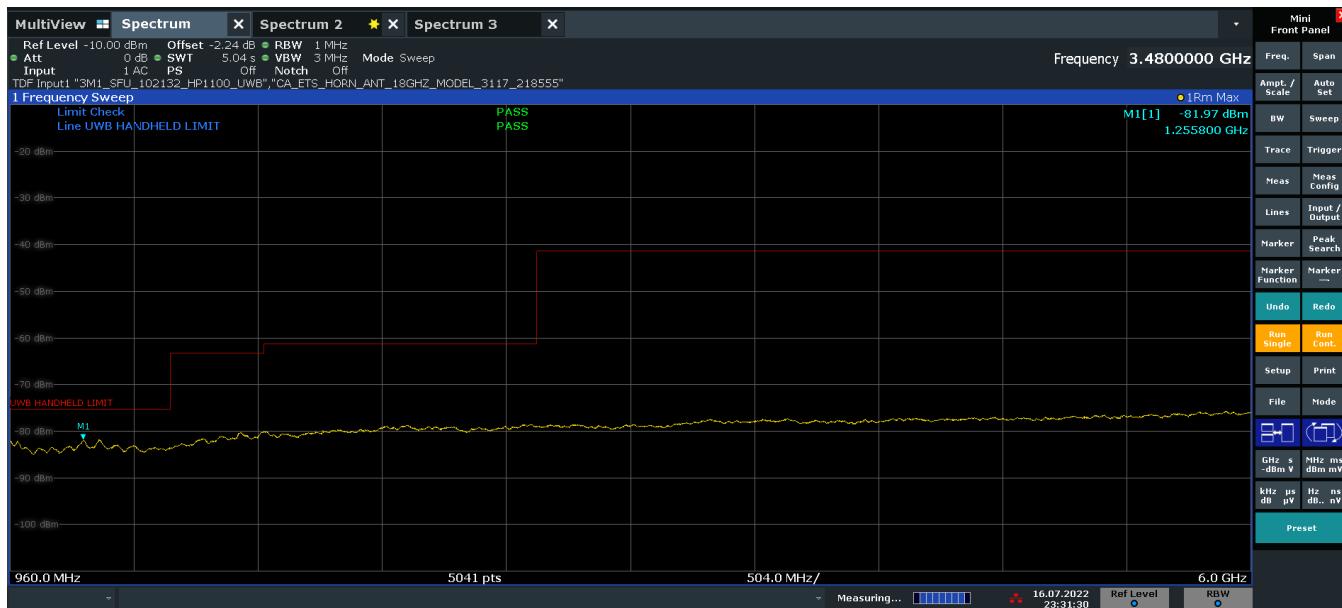
Plot 7-22. Radiated Spurious Emission 1559-1610MHz (Ch. 5, Config 0, Payload 125 Ant. Pol. V)

| | | | | |
|---|---|--------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 39 of 63 | |



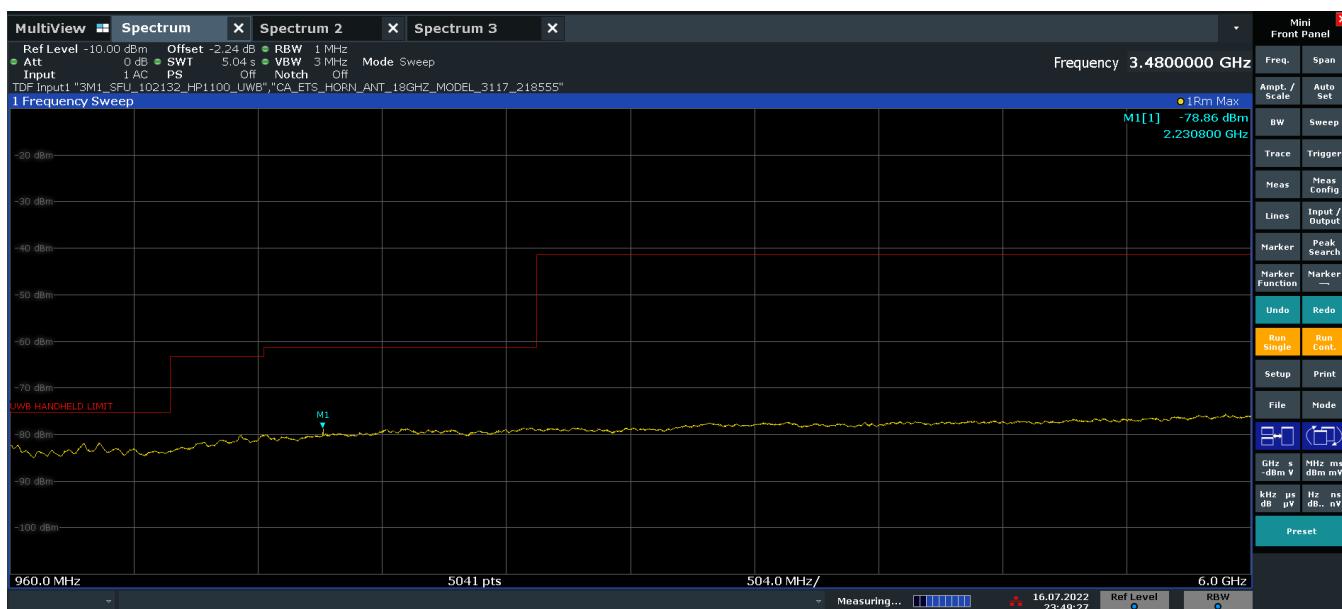
Plot 7-24. Radiated Spurious Emission 9-18GHz (Ch. 5, Config 0, Payload 125 Ant. Pol. V)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 40 of 63 |



23:31:30 16.07.2022

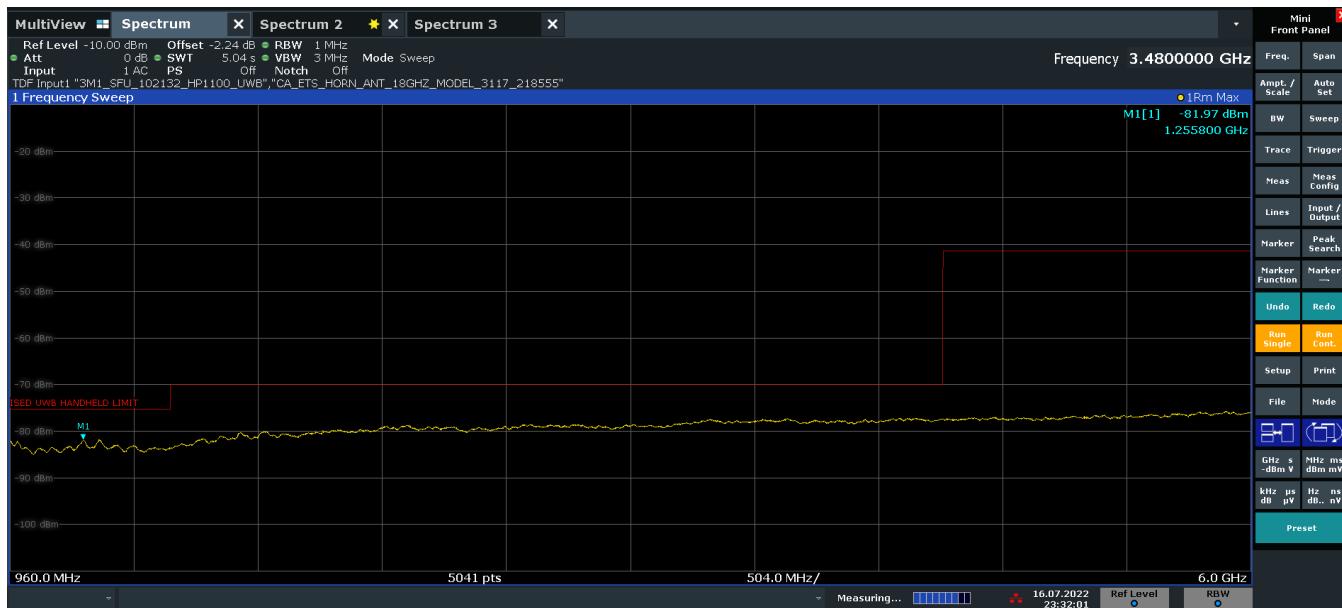
Plot 7-25. FCC Radiated Spurious Emission 960-6000MHz (Ch. 9, Config 0, Payload 125 Ant. Pol. H)



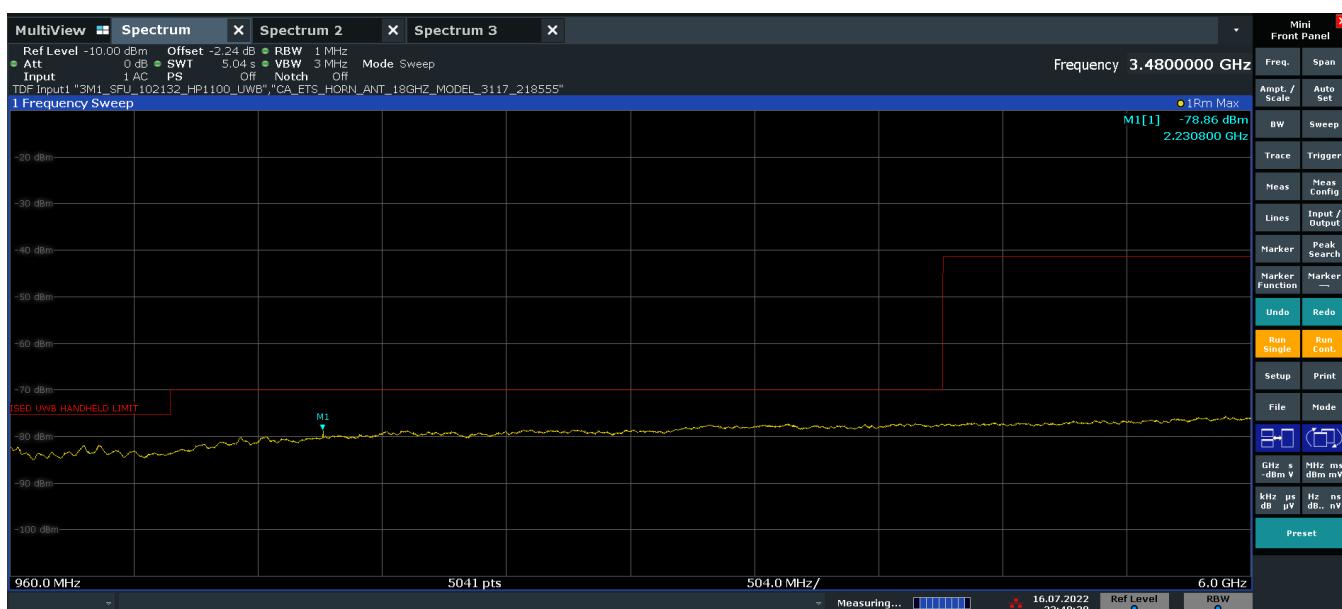
23:49:27 16.07.2022

Plot 7-26. FCC Radiated Spurious Emission 960-6000MHz (Ch.9, Config 0, Payload 125 Ant. Pol. V)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 41 of 63 |

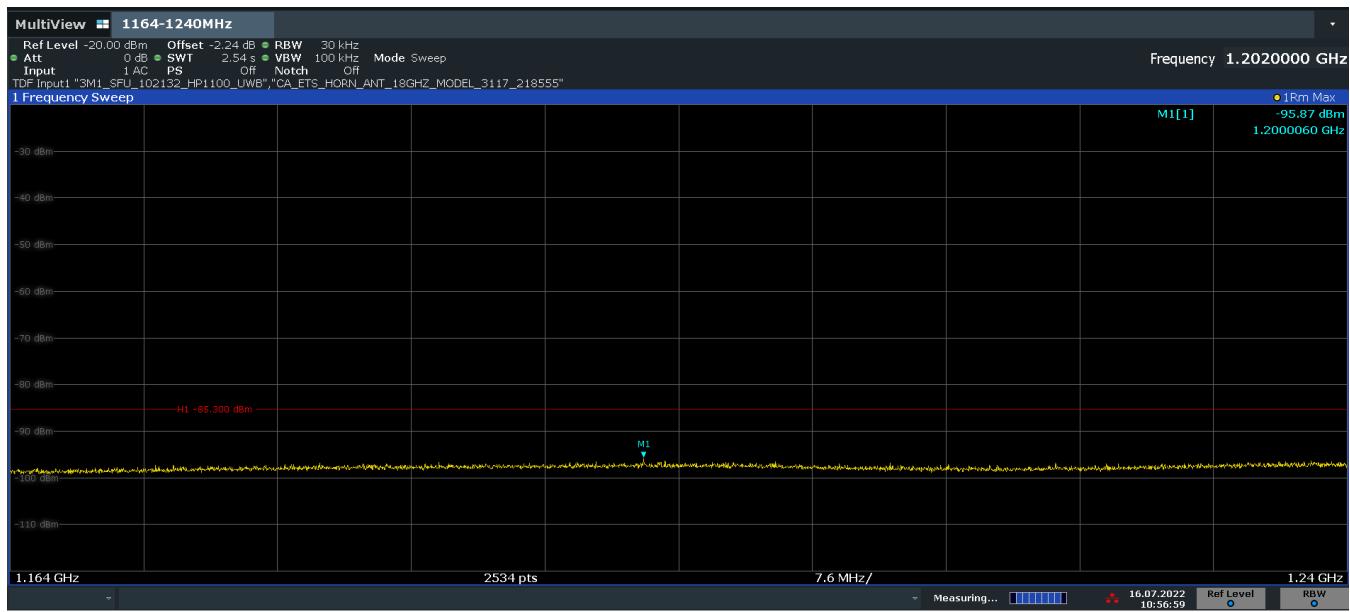


Plot 7-27. ISED Radiated Spurious Emission 960-6000MHz (Ch. 9, Config 0, Payload 125 Ant. Pol. H)

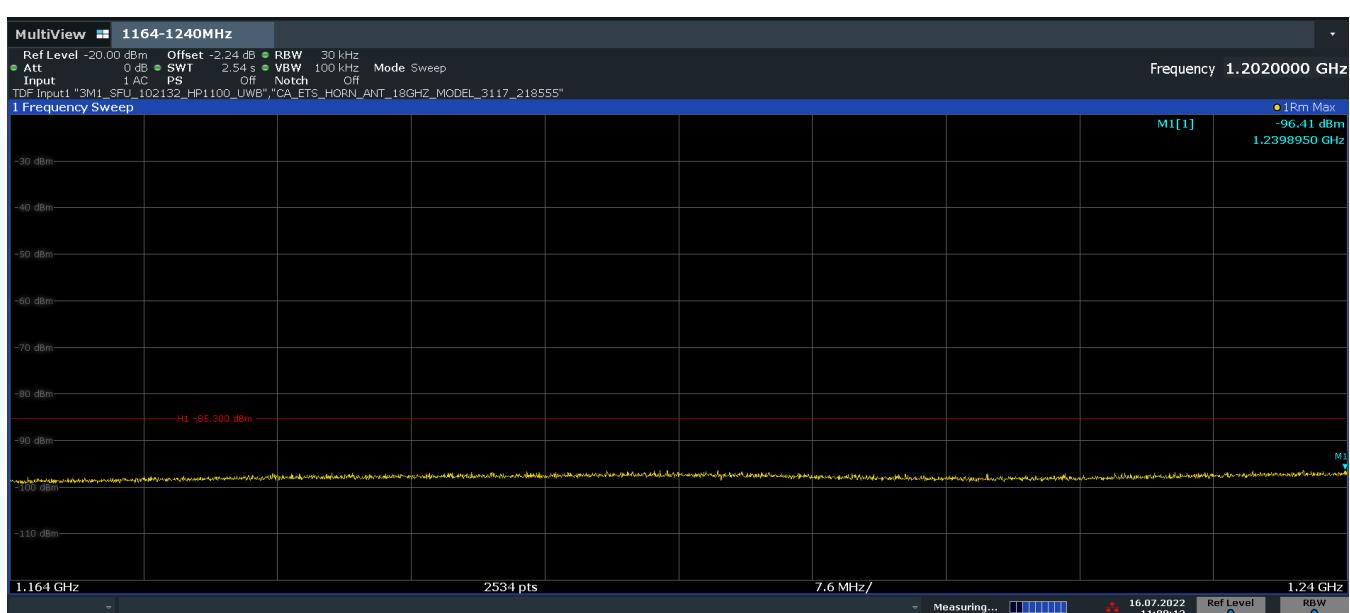


Plot 7-28. ISED Radiated Spurious Emission 960-6000MHz (Ch.9, Config 0, Payload 125 Ant. Pol. V)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 42 of 63 |



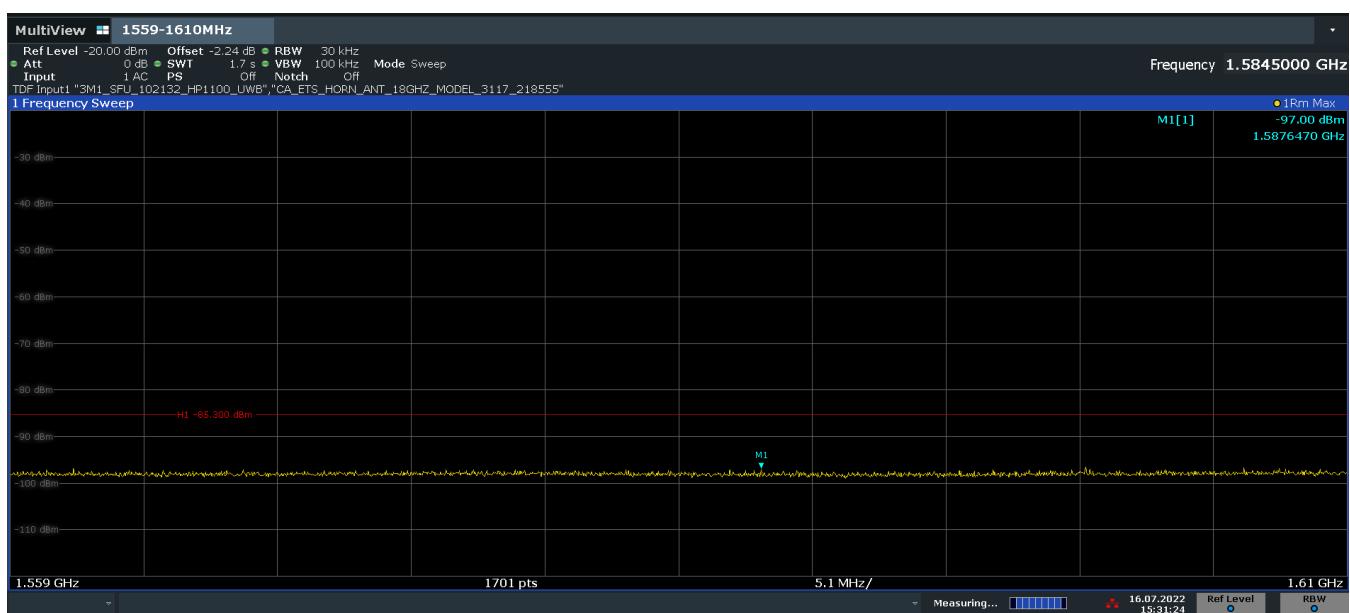
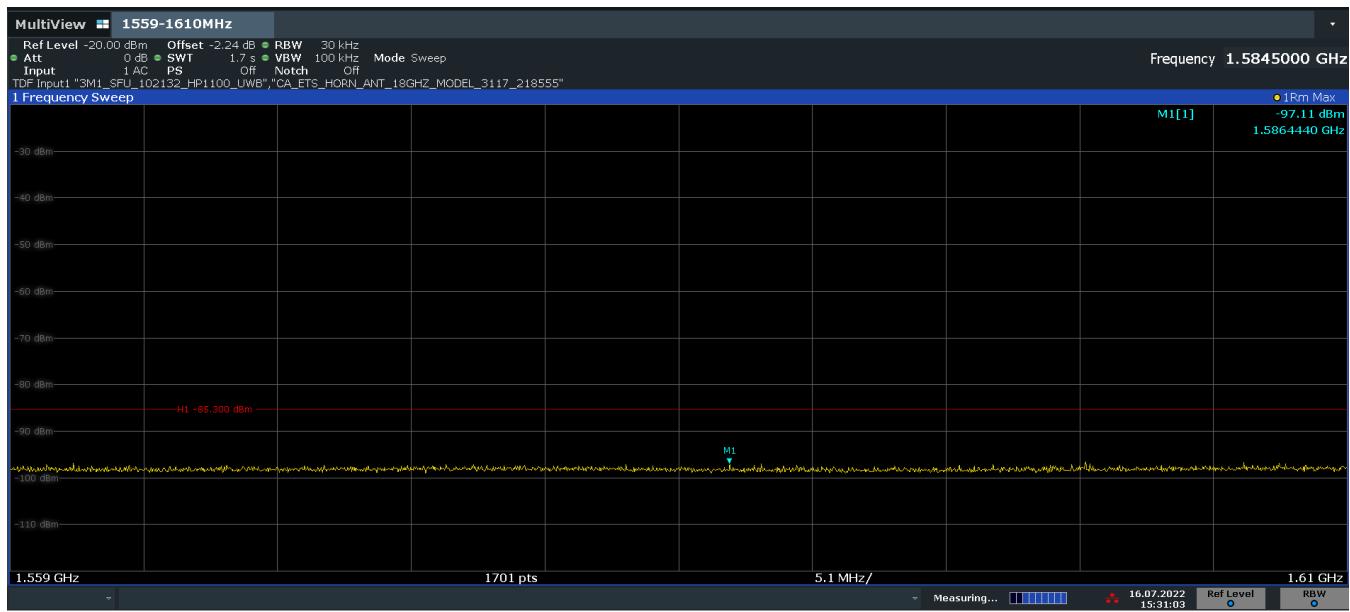
Plot 7-29. Radiated Spurious Emission 1164-1240MHz (Ch. 9, Config 0, Payload 125 Ant. Pol. H)



11:00:14 16.07.2022

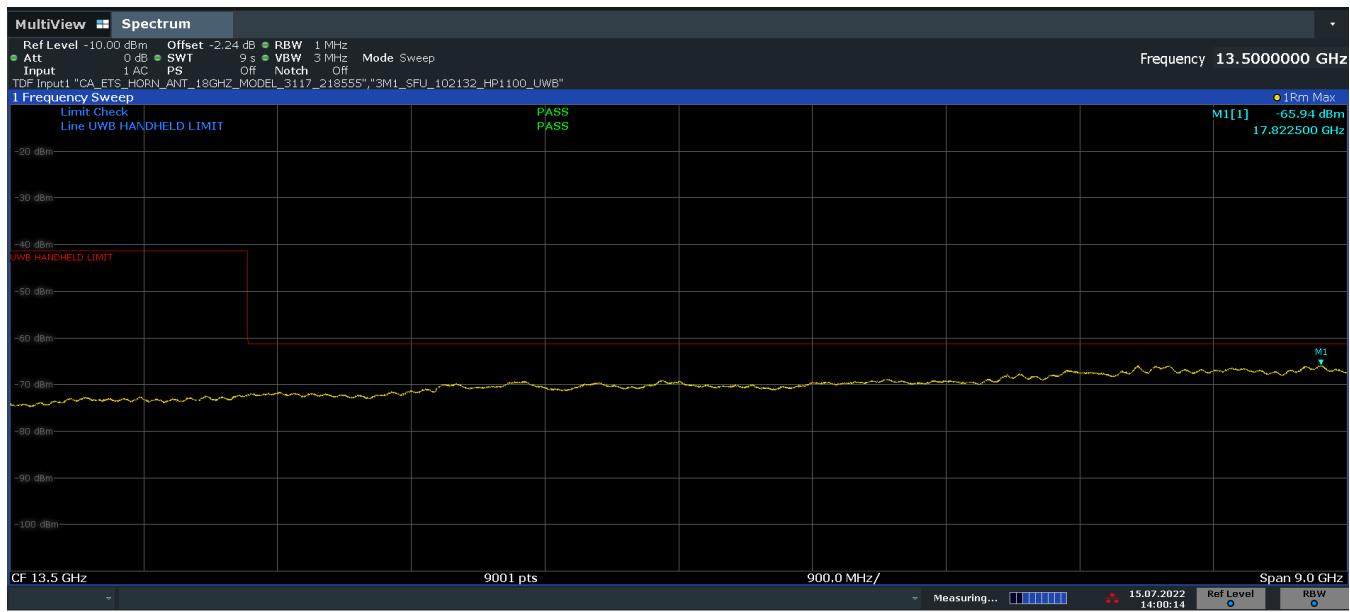
Plot 7-30. Radiated Spurious Emission 1164-1240MHz (Ch. 9, Config 0, Payload 125 Ant. Pol. V)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 43 of 63 |

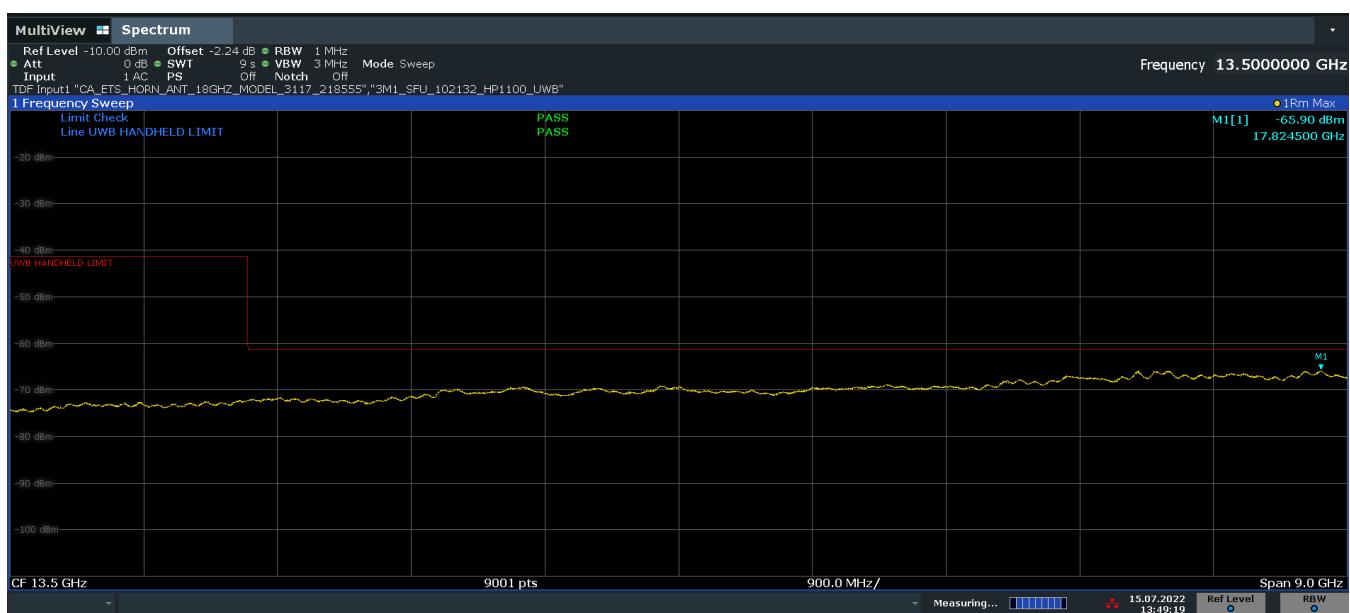


Plot 7-32. Radiated Spurious Emission 1559-1610MHz (Ch. 9, Config 0, Payload 125 Ant. Pol. V)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 44 of 63 |



Plot 7-33. Radiated Spurious Emission 9-18GHz (Ch. 9, Config 0, Payload 125 Ant. Pol. H)

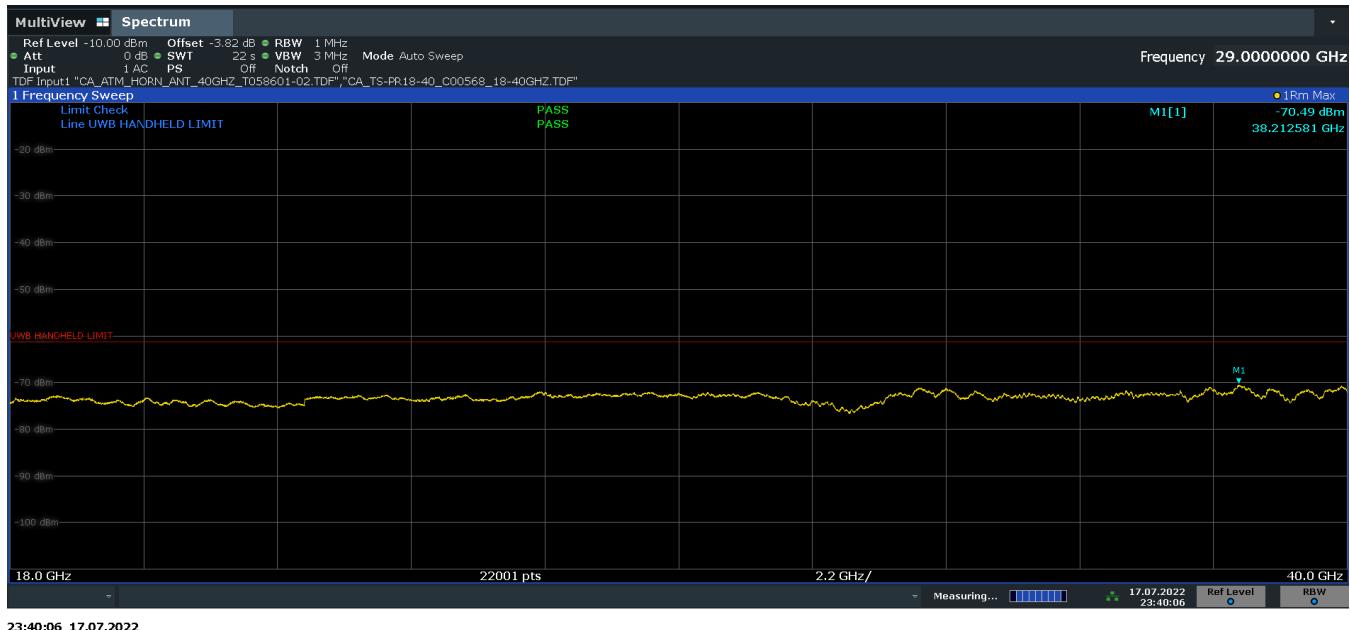


Plot 7-34. Radiated Spurious Emission 9-18GHz (Ch. 9, Config 0, Payload 125 Ant. Pol. V)

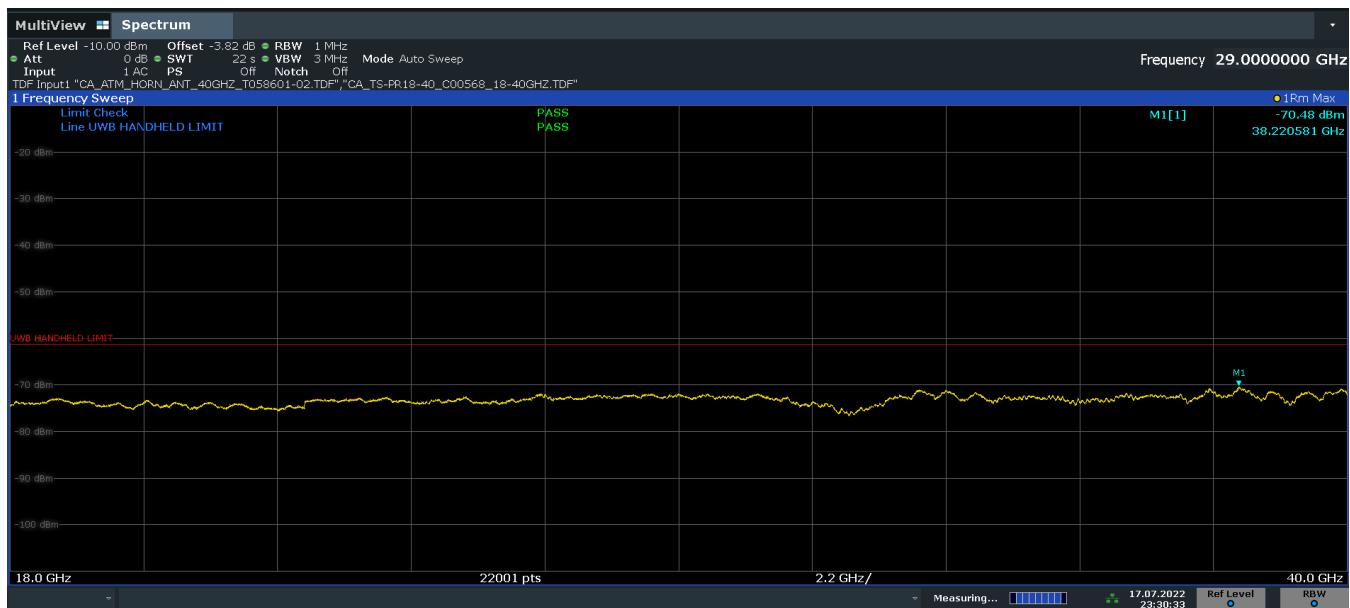
| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 45 of 63 |

Radiated Spurious Emissions (Above 18GHz)

§15.519 (c); RSS-220 [5.3.1(d)]

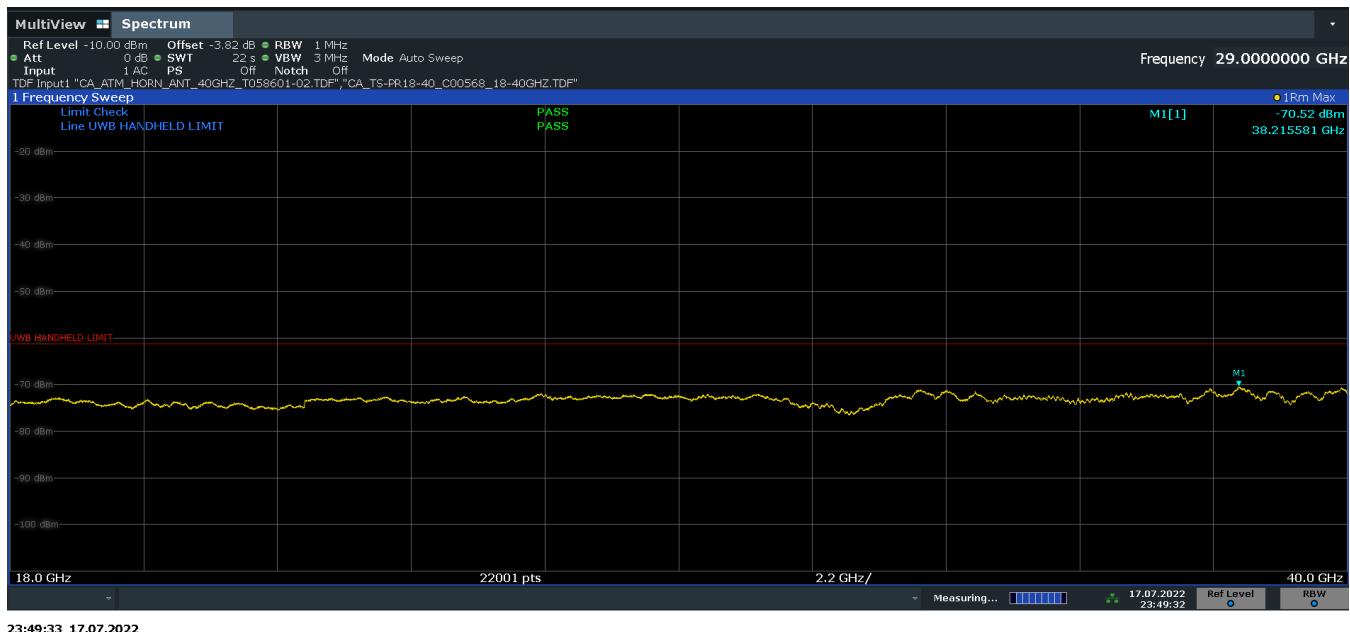


Plot 7-35. Radiated Spurious Emission 18-40GHz (Ch. 5, Config 0, Payload 125 Ant. Pol. H)

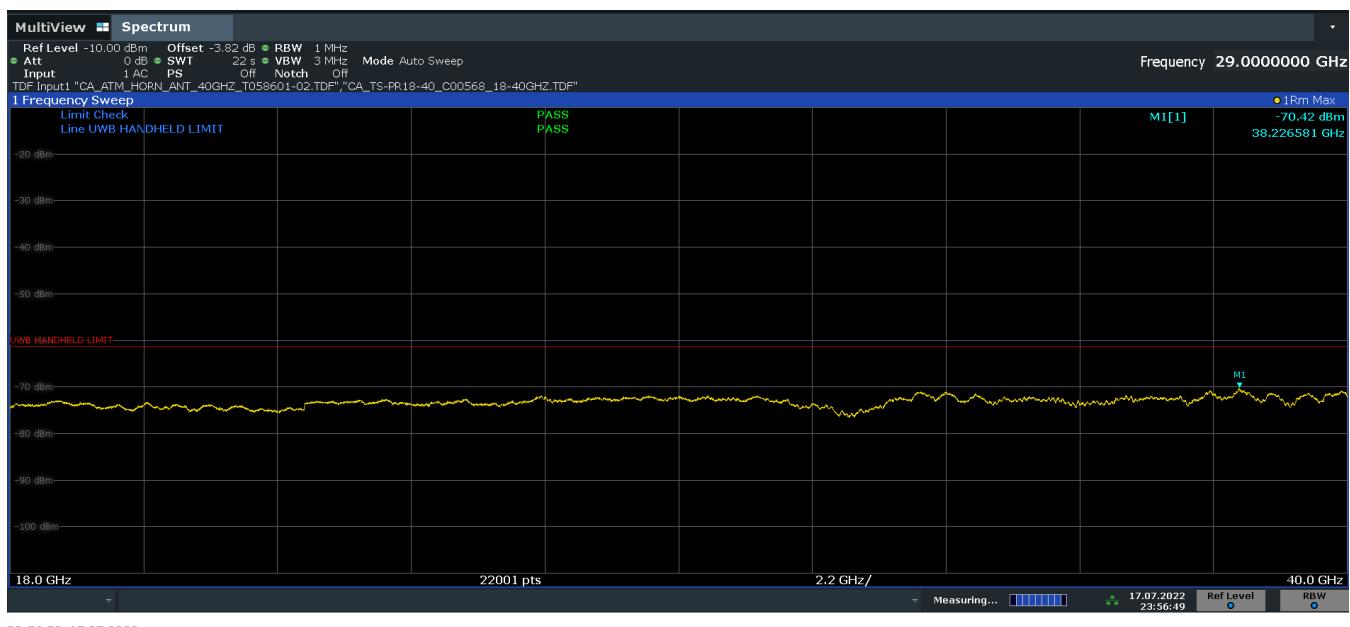


Plot 7-36. Radiated Spurious Emission 18-40GHz (Ch. 5, Config 0, Payload 125 Ant. Pol. V)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 46 of 63 |



Plot 7-37. Radiated Spurious Emission 18-40GHz (Ch. 9, Config 0, Payload 125 Ant. Pol. H)



Plot 7-38. Radiated Spurious Emission 18-40GHz (Ch. 9, Config 0, Payload 125 Ant. Pol. V)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 47 of 63 |



Radiated Spurious Emission Measurements (960MHz-18GHz)

§15.519(c); RSS-220 [5.3.1(d)]

| | |
|---------------------------|------------|
| Distance of Measurements: | 0.6 Meters |
| Operating Frequency: | 6500 MHz |
| Channel: | 5 |
| Config | 0 |
| Payload | 125 |

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Conversion Factor [dB] | Spurious Emission Level [dbm] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|------------------------|-------------------------------|----------------------|-------------|
| 1025 | Avg | V | - | - | -75.20 | -6.17 | -2.24 | -83.62 | -75.30 | -8.31 |
| 1970 | Avg | V | - | - | -76.54 | -2.17 | -2.24 | -80.95 | -63.30 | -17.65 |
| 2231 | Avg | V | 134 | 95 | -74.56 | -1.67 | -2.24 | -78.47 | -61.30 | -17.17 |
| 10500 | Avg | H | - | - | -77.15 | 6.61 | -2.24 | -72.78 | -41.30 | -31.48 |
| 14000 | Avg | H | - | - | -76.05 | 8.11 | -2.24 | -70.18 | -61.30 | -8.88 |
| 17829 | Avg | H | - | - | -74.68 | 11.05 | -2.24 | -65.87 | -61.30 | -4.57 |

Table 7-15. Radiated Spurious Emission Measurements 960MHz-18GHz (FCC)

| | |
|---------------------------|------------|
| Distance of Measurements: | 0.6 Meters |
| Operating Frequency: | 6500 MHz |
| Channel: | 5 |
| Config | 0 |
| Payload | 125 |

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Conversion Factor [dB] | Spurious Emission Level [dbm] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|------------------------|-------------------------------|----------------------|-------------|
| 1250 | Avg | V | - | - | -75.29 | -4.76 | -2.24 | -82.29 | -75.30 | -6.99 |
| 2231 | Avg | V | 134 | 95 | -74.46 | -1.67 | -2.24 | -78.37 | -70.00 | -8.37 |
| 4605 | Avg | V | - | - | -76.84 | 1.72 | -2.24 | -77.36 | -70.00 | -7.36 |
| 13400 | Avg | H | - | - | -75.46 | 8.47 | -2.24 | -69.23 | -61.30 | -7.93 |
| 17300 | Avg | H | - | - | -75.28 | 10.86 | -2.24 | -66.66 | -61.30 | -5.36 |
| 17829 | Avg | H | - | - | -75.48 | 11.05 | -2.24 | -66.67 | -61.30 | -5.37 |

Table 7-16. Radiated Spurious Emission Measurements 960MHz-18GHz (ISED)

| | | | |
|---|------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 48 of 63 |



Radiated Spurious Emission Measurements (960MHz-18GHz)

§15.519 (c); RSS-220 [5.3.1(d)]

| | |
|---------------------------|------------|
| Distance of Measurements: | 0.6 Meters |
| Operating Frequency: | 8000 MHz |
| Channel: | 9 |
| Config | 0 |
| Payload | 125 |

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Conversion Factor [dB] | Spurious Emission Level [dbm] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|------------------------|-------------------------------|----------------------|-------------|
| 1025 | Avg | V | - | - | -75.20 | -6.17 | -2.24 | -83.61 | -75.30 | -8.31 |
| 1970 | Avg | V | - | - | -76.51 | -2.17 | -2.24 | -80.92 | -63.30 | -17.62 |
| 2231 | Avg | V | 133 | 102 | -74.48 | -1.67 | -2.24 | -78.39 | -61.30 | -17.09 |
| 10500 | Avg | V | - | - | -77.19 | 6.61 | -2.24 | -72.82 | -41.30 | -31.52 |
| 14000 | Avg | V | - | - | -76.03 | 8.11 | -2.24 | -70.17 | -61.30 | -8.87 |
| 17800 | Avg | V | - | - | -74.96 | 11.05 | -2.24 | -66.14 | -61.30 | -4.84 |

Table 7-17. Radiated Spurious Emission Measurements 960MHz-18GHz (FCC)

| | |
|---------------------------|------------|
| Distance of Measurements: | 0.6 Meters |
| Operating Frequency: | 8000 MHz |
| Channel: | 9 |
| Config | 0 |
| Payload | 125 |

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Conversion Factor [dB] | Spurious Emission Level [dbm] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|------------------------|-------------------------------|----------------------|-------------|
| 1250 | Avg | V | - | - | -75.35 | -4.76 | -2.24 | -82.35 | -75.30 | -7.05 |
| 2231 | Avg | V | 133 | 102 | -74.48 | -1.67 | -2.24 | -78.39 | -70.00 | -8.39 |
| 4605 | Avg | V | - | - | -76.85 | 1.72 | -2.24 | -77.37 | -70.00 | -7.37 |
| 13400 | Avg | V | - | - | -75.44 | 8.47 | -2.24 | -69.21 | -61.30 | -7.91 |
| 17300 | Avg | V | - | - | -75.20 | 10.86 | -2.24 | -66.58 | -61.30 | -5.28 |
| 17800 | Avg | V | - | - | -75.52 | 11.05 | -2.24 | -66.71 | -61.30 | -5.41 |

Table 7-18. Radiated Spurious Emission Measurements 960MHz-18GHz (ISED)

| | | | |
|---|------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
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Radiated Spurious Emission Measurements (Above 18GHz)

§15.519 (c); RSS-220 [5.3.1(d)]

| | |
|---------------------------|------------|
| Distance of Measurements: | 0.5 Meters |
| Operating Frequency: | 6500 MHz |
| Channel: | 5 |
| Config | 0 |
| Payload | 125 |

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Conversion Factor [dB] | Spurious Emission Level [dbm] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|------------------------|-------------------------------|----------------------|-------------|
| 19500 | Avg | V | - | - | -64.12 | -6.78 | -3.82 | -74.72 | -61.30 | -13.42 |
| 22000 | Avg | V | - | - | -63.89 | -7.54 | -3.82 | -75.25 | -61.30 | -13.95 |
| 26000 | Avg | V | - | - | -64.34 | -5.68 | -3.82 | -73.84 | -61.30 | -12.54 |
| 32500 | Avg | V | - | - | -67.08 | -4.06 | -3.82 | -74.96 | -61.30 | -13.66 |
| 38213 | Avg | V | - | - | -61.65 | -5.01 | -3.82 | -70.48 | -61.30 | -9.18 |

Table 7-19. Radiated Spurious Emission Measurements 18-40GHz

| | |
|---------------------------|------------|
| Distance of Measurements: | 0.5 Meters |
| Operating Frequency: | 8000 MHz |
| Channel: | 9 |
| Config | 0 |
| Payload | 125 |

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Conversion Factor [dB] | Spurious Emission Level [dbm] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|------------------------|-------------------------------|----------------------|-------------|
| 18500 | Avg | V | - | - | -63.90 | -6.09 | -3.82 | -73.81 | -61.30 | -12.51 |
| 24000 | Avg | V | - | - | -78.42 | -6.45 | -3.82 | -88.69 | -61.30 | -27.39 |
| 28850 | Avg | V | - | - | -64.54 | -3.95 | -3.82 | -72.31 | -61.30 | -11.01 |
| 32000 | Avg | V | - | - | -66.97 | -4.06 | -3.82 | -74.85 | -61.30 | -13.55 |
| 38227 | Avg | V | - | - | -61.59 | -5.01 | -3.82 | -70.42 | -61.30 | -9.12 |

Table 7-20. Radiated Spurious Emission Measurements 18-40GHz

| | | | |
|---|------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 50 of 63 |

7.7 Radiated Spurious Emissions Measurements – Below 960MHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-21 per Section 15.209 and RSS-Gen (8.9).

| Frequency | Field Strength [μ V/m] | Measured Distance [Meters] |
|-------------------|--------------------------------|-------------------------------|
| 0.009 – 0.490 MHz | 2400/F (kHz) | 300 |
| 0.490 – 1.705 MHz | 24000/F (kHz) | 30 |
| 1.705 – 30.00 MHz | 30 | 30 |
| 30.00 – 88.00 MHz | 100 | 3 |
| 88.00 – 216.0 MHz | 150 | 3 |
| 216.0 – 960.0 MHz | 200 | 3 |
| Above 960.0 MHz | 500 | 3 |

Table 7-21. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 51 of 63 |

Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.

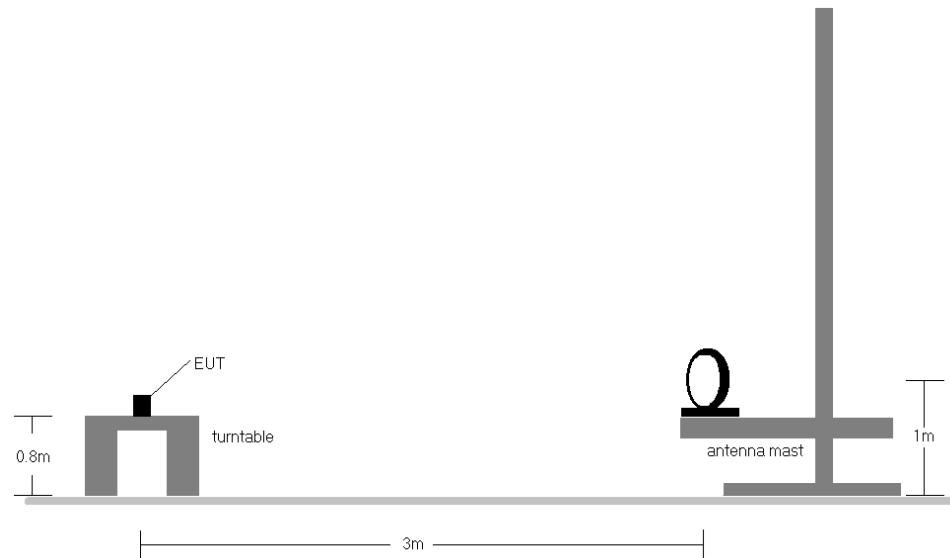


Figure 7-6. Radiated Test Setup < 30Mhz

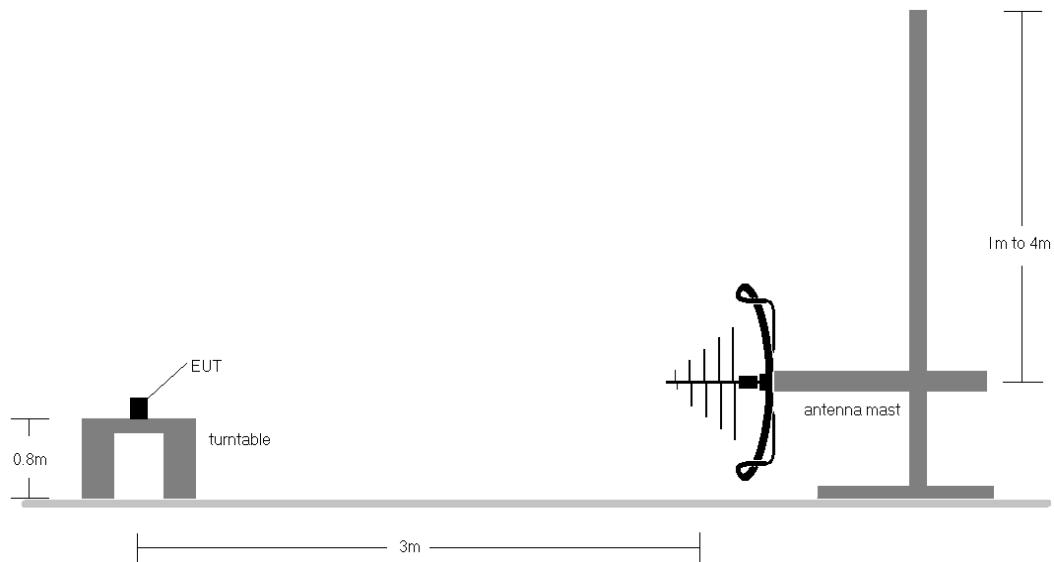


Figure 7-7. Radiated Test Setup < 1GHz

| | | | |
|---|--|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 52 of 63 |

Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-21.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with magnetic charger
 - b. EUT powered by host PC via USB-C cable with magnetic charger
10. All modes of operation were investigated and the worst-case emissions are reported.

Sample Calculations

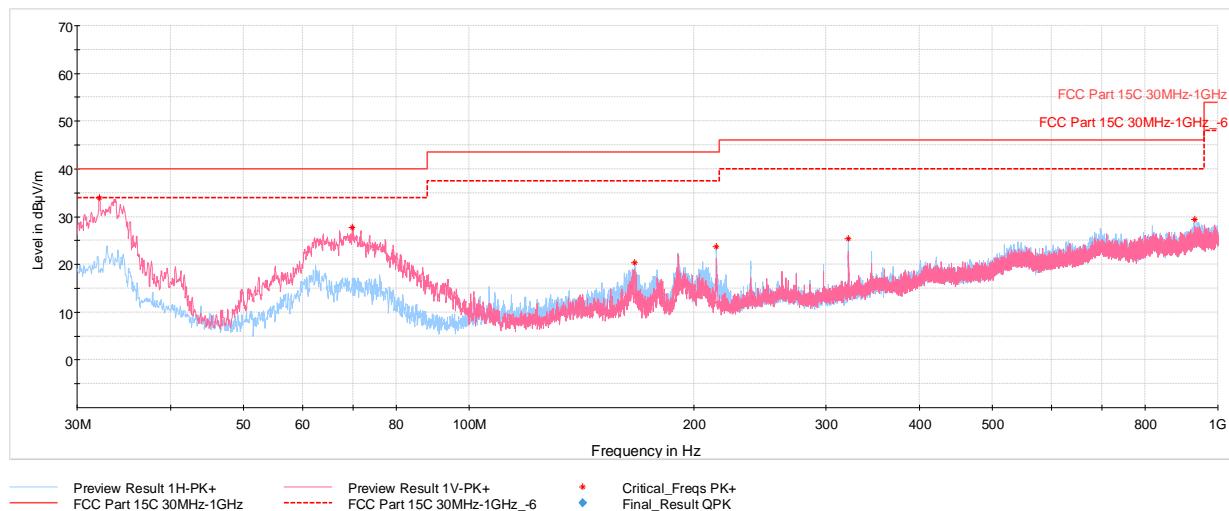
Determining Spurious Emissions Levels

- o Field Strength Level $[\text{dB}_{\mu\text{V/m}}]$ = Analyzer Level $[\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- o $\text{AFCL} [\text{dB/m}] = (\text{Antenna Factor} [\text{dB/m}] + \text{Cable Loss} [\text{dB}] + \text{Attenuator} [\text{dB}]) - \text{Preamplifier Gain} [\text{dB}]$
- o Margin $[\text{dB}] = \text{Field Strength Level} [\text{dB}_{\mu\text{V/m}}] - \text{Limit} [\text{dB}_{\mu\text{V/m}}]$

| | | | |
|---|---|---------------------------------------|------------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 53 of 63 V 10.5 12/15/2021 |

Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

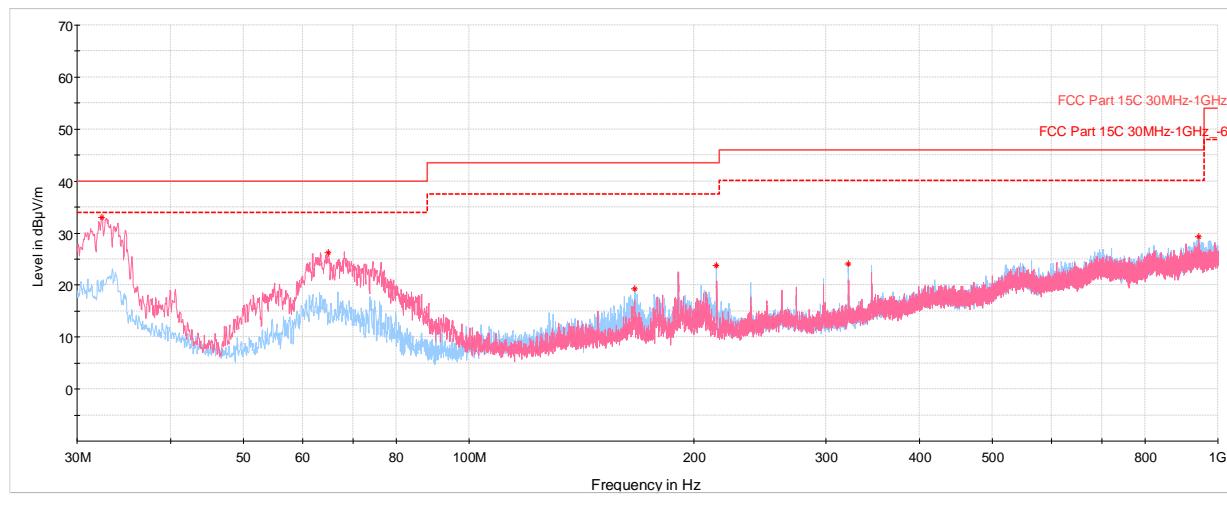


Plot 7-39. Radiated Spurious Emission 30-960MHz (Ch. 5, Config 0, Payload 125 with AC/DC Adapter + Magnetic Charger)

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 32.13 | Max-Peak | V | 100 | 88 | -62.71 | -10.38 | 33.91 | 40.00 | -6.09 |
| 69.87 | Max-Peak | V | 100 | 195 | -61.77 | -17.41 | 27.82 | 40.00 | -12.18 |
| 166.58 | Max-Peak | H | 200 | 219 | -73.39 | -13.13 | 20.48 | 43.52 | -23.04 |
| 214.06 | Max-Peak | H | 100 | 208 | -70.71 | -12.16 | 24.13 | 43.52 | -19.40 |
| 321.15 | Max-Peak | H | 100 | 319 | -72.02 | -8.85 | 26.13 | 46.02 | -19.89 |
| 930.35 | Max-Peak | H | 200 | 38 | -82.03 | 3.60 | 28.57 | 46.02 | -17.45 |

Table 7-22. Radiated Spurious Emission 30-960MHz (Ch. 5, Config 0, Payload 125 with AC/DC Adapter + Magnetic Charger)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 54 of 63 |



Plot 7-40. Radiated Spurious Emission 30-960MHz (Ch. 9, Config 0, Payload 125 with AC/DC Adapter + Magnetic Charger)

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 32.38 | Max-Peak | V | 100 | 164 | -63.47 | -10.51 | 33.02 | 40.00 | -6.98 |
| 64.92 | Max-Peak | V | 200 | 276 | -63.13 | -17.58 | 26.29 | 40.00 | -13.71 |
| 166.48 | Max-Peak | H | 300 | 75 | -74.44 | -13.12 | 19.44 | 43.52 | -24.09 |
| 214.01 | Max-Peak | H | 100 | 208 | -70.60 | -12.17 | 24.23 | 43.52 | -19.29 |
| 321.15 | Max-Peak | H | 100 | 302 | -73.39 | -8.85 | 24.76 | 46.02 | -21.26 |
| 941.80 | Max-Peak | H | 200 | 344 | -82.15 | 3.43 | 28.28 | 46.02 | -17.74 |

Table 7-23. Radiated Spurious Emission 30-960MHz (Ch. 9, Config 0, Payload 125 with AC/DC Adapter + Magnetic Charger)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 55 of 63 |

7.8 AC Line-Conducted Emission Measurement

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

| Frequency of emission (MHz) | Conducted Limit (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15 – 0.5 | 66 to 56* | 56 to 46* |
| 0.5 – 5 | 56 | 46 |
| 5 – 30 | 60 | 50 |

Table 7-24. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

| | | | |
|---|---|---------------------------------------|------------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 56 of 63 V 10.5 12/15/2021 |

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

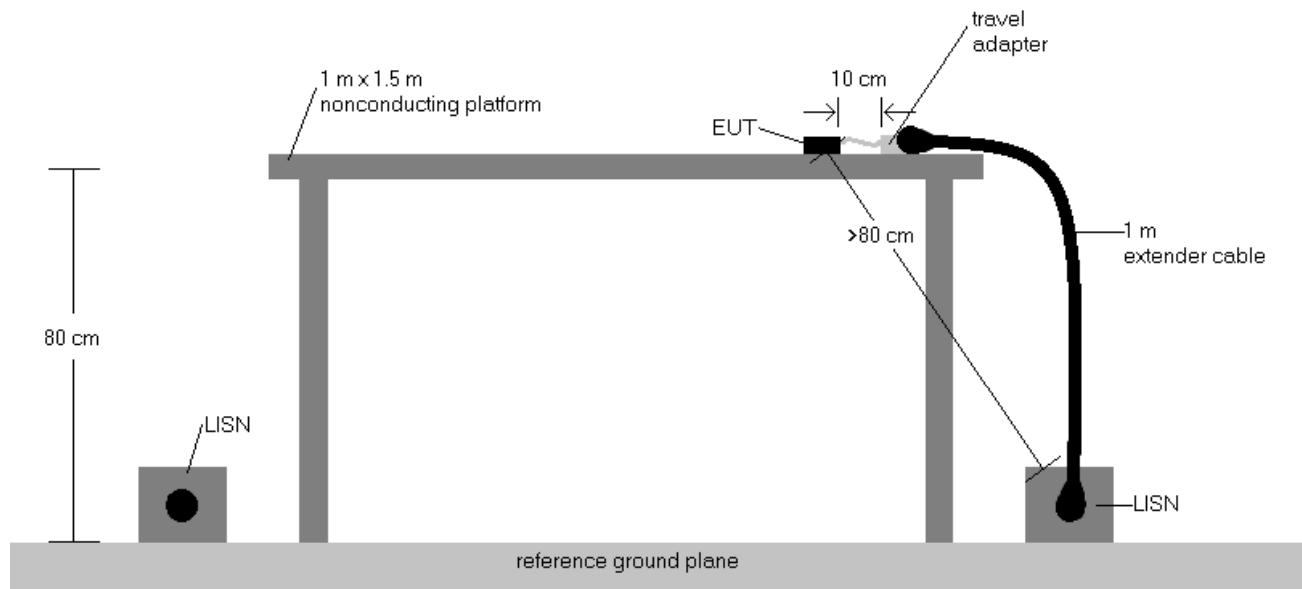
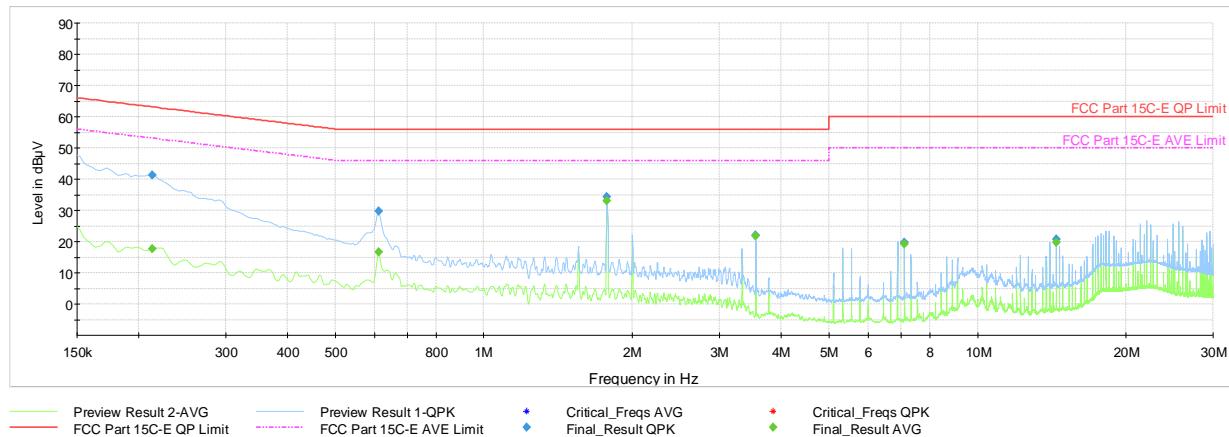


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen (8.8).
3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
4. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Corr. (dB)
5. Margin (dB) = QP/AV Limit (dB μ V) - QP/AV Level (dB μ V)
6. Traces shown in plot are made using a quasi-peak and average detectors
7. Deviations to the Specifications: None.
8. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adapter via USB-C cable with magnetic charger
 - b. EUT powered by host PC via USB-C cable with magnetic charger

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 57 of 63 |

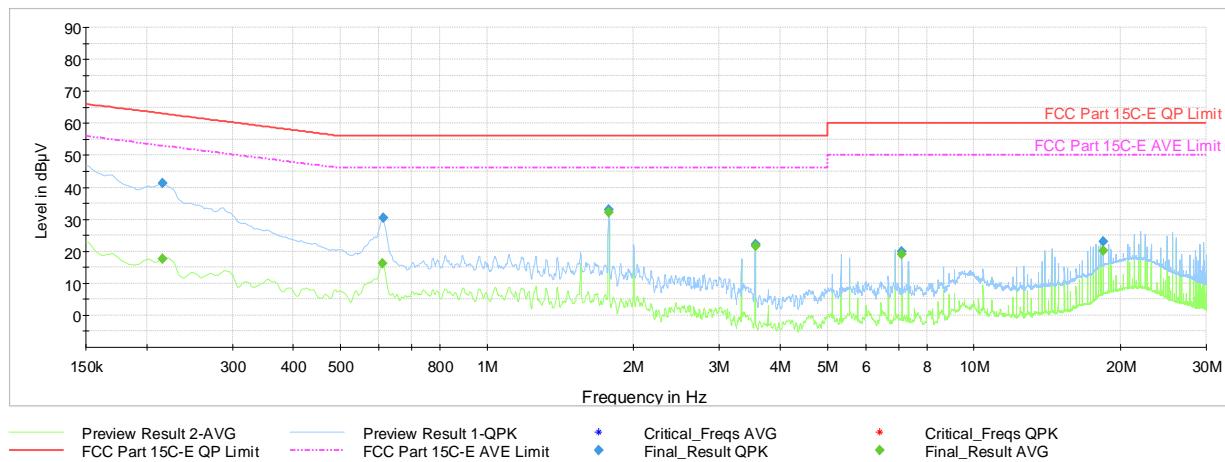


Plot 7-41. AC Line Conducted (Ch. 5, Config 0, Payload 125 L1, with PC via USB-C cable with magnetic charger)

| Frequency [MHz] | Process State | QuasiPeak [dBµV] | Average [dBµV] | Limit [dBµV] | Margin [dB] | Line | PE |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|----|
| 0.213 | FINAL | --- | 17.60 | 53.09 | -35.48 | L1 | ON |
| 0.213 | FINAL | 41.3 | --- | 63.09 | -21.77 | L1 | ON |
| 0.611 | FINAL | --- | 16.60 | 46.00 | -29.40 | L1 | ON |
| 0.611 | FINAL | 29.7 | --- | 56.00 | -26.31 | L1 | ON |
| 1.777 | FINAL | --- | 33.14 | 46.00 | -12.86 | L1 | ON |
| 1.777 | FINAL | 34.4 | --- | 56.00 | -21.63 | L1 | ON |
| 3.557 | FINAL | 22.1 | --- | 56.00 | -33.88 | L1 | ON |
| 3.557 | FINAL | --- | 21.76 | 46.00 | -24.24 | L1 | ON |
| 7.112 | FINAL | 19.9 | --- | 60.00 | -40.13 | L1 | ON |
| 7.112 | FINAL | --- | 19.24 | 50.00 | -30.76 | L1 | ON |
| 14.444 | FINAL | --- | 19.83 | 50.00 | -30.17 | L1 | ON |
| 14.444 | FINAL | 20.8 | --- | 60.00 | -39.23 | L1 | ON |

Table 7-25. AC Line Conducted Data (Ch. 5, Config 0, Payload 125 L1, with PC via USB-C cable with magnetic charger)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 58 of 63 |

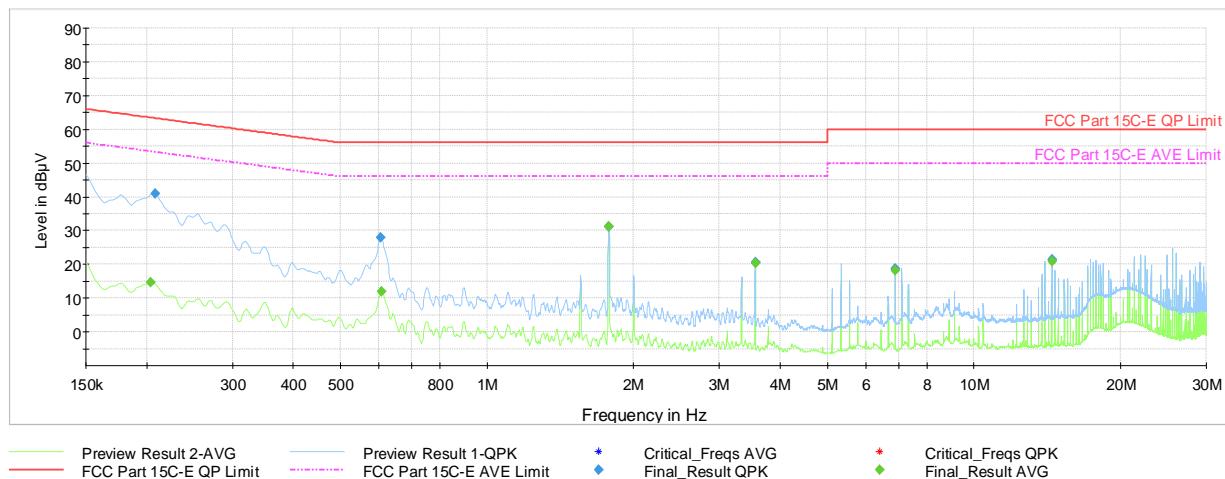


Plot 7-42. AC Line Conducted (Ch. 5, Config 0, Payload 125 N, with PC via USB-C cable with magnetic charger)

| Frequency [MHz] | Process State | QuasiPeak [dBµV] | Average [dBµV] | Limit [dBµV] | Margin [dB] | Line | PE |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|----|
| 0.215 | FINAL | --- | 17.64 | 53.00 | -35.36 | N | ON |
| 0.215 | FINAL | 41.2 | --- | 63.00 | -21.82 | N | ON |
| 0.609 | FINAL | --- | 16.27 | 46.00 | -29.73 | N | ON |
| 0.611 | FINAL | 30.4 | --- | 56.00 | -25.63 | N | ON |
| 1.777 | FINAL | --- | 32.05 | 46.00 | -13.95 | N | ON |
| 1.777 | FINAL | 33.1 | --- | 56.00 | -22.95 | N | ON |
| 3.557 | FINAL | 22.2 | --- | 56.00 | -33.85 | N | ON |
| 3.557 | FINAL | --- | 21.61 | 46.00 | -24.39 | N | ON |
| 7.112 | FINAL | 20.0 | --- | 60.00 | -40.00 | N | ON |
| 7.112 | FINAL | --- | 18.98 | 50.00 | -31.02 | N | ON |
| 18.445 | FINAL | --- | 20.21 | 50.00 | -29.79 | N | ON |
| 18.445 | FINAL | 22.9 | --- | 60.00 | -37.06 | N | ON |

Table 7-26. AC Line Conducted Data (Ch. 5, Config 0, Payload 125 N, with PC via USB-C cable with magnetic charger)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 59 of 63 |

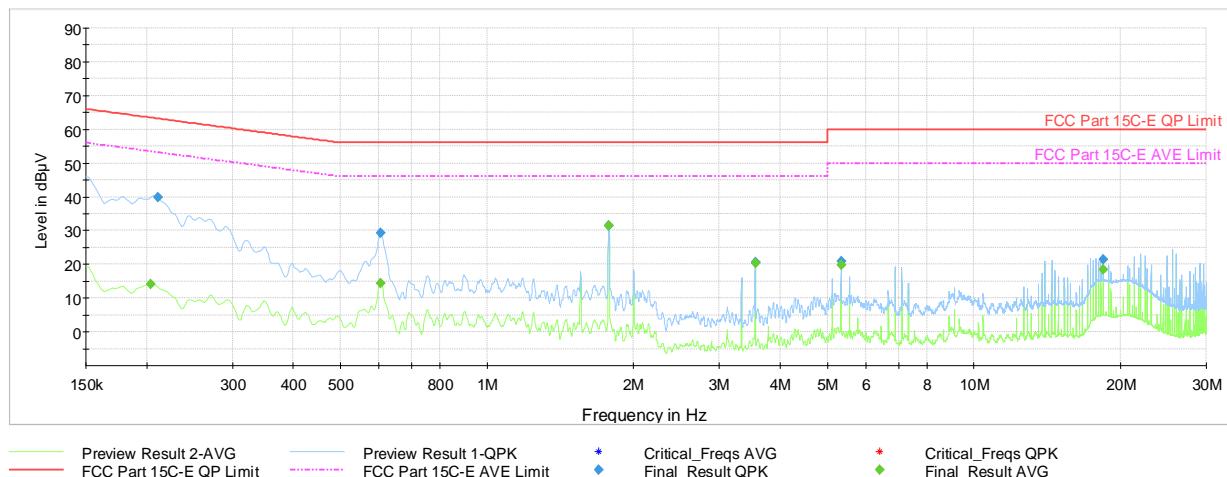


Plot 7-43. AC Line Conducted (Ch. 9, Config 0, Payload 125 L1, with PC via USB-C cable with magnetic charger)

| Frequency [MHz] | Process State | QuasiPeak [dBμV] | Average [dBμV] | Limit [dBμV] | Margin [dB] | Line | PE |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|----|
| 0.204 | FINAL | --- | 14.63 | 53.45 | -38.81 | L1 | ON |
| 0.209 | FINAL | 41.0 | --- | 63.27 | -22.27 | L1 | ON |
| 0.605 | FINAL | 28.1 | --- | 56.00 | -27.93 | L1 | ON |
| 0.607 | FINAL | --- | 11.84 | 46.00 | -34.16 | L1 | ON |
| 1.777 | FINAL | --- | 31.22 | 46.00 | -14.78 | L1 | ON |
| 1.777 | FINAL | 31.3 | --- | 56.00 | -24.68 | L1 | ON |
| 3.557 | FINAL | 20.7 | --- | 56.00 | -35.32 | L1 | ON |
| 3.557 | FINAL | --- | 20.40 | 46.00 | -25.60 | L1 | ON |
| 6.889 | FINAL | 18.9 | --- | 60.00 | -41.14 | L1 | ON |
| 6.889 | FINAL | --- | 18.30 | 50.00 | -31.70 | L1 | ON |
| 14.444 | FINAL | --- | 20.97 | 50.00 | -29.03 | L1 | ON |
| 14.444 | FINAL | 21.3 | --- | 60.00 | -38.68 | L1 | ON |

Table 7-27. AC Line Conducted Data (Ch. 9, Config 0, Payload 125 L1, with PC via USB-C cable with magnetic charger)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 60 of 63 |



Plot 7-44. AC Line Conducted Plot (Ch. 9, Config 0, Payload 125 N, with PC via USB-C cable with magnetic charger)

| Frequency [MHz] | Process State | QuasiPeak [dBμV] | Average [dBμV] | Limit [dBμV] | Margin [dB] | Line | PE |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|----|
| 0.204 | FINAL | --- | 13.98 | 53.45 | -39.46 | N | ON |
| 0.211 | FINAL | 39.8 | --- | 63.18 | -23.36 | N | ON |
| 0.605 | FINAL | --- | 14.35 | 46.00 | -31.65 | N | ON |
| 0.605 | FINAL | 29.2 | --- | 56.00 | -26.78 | N | ON |
| 1.777 | FINAL | --- | 31.35 | 46.00 | -14.65 | N | ON |
| 1.777 | FINAL | 31.6 | --- | 56.00 | -24.45 | N | ON |
| 3.557 | FINAL | 20.8 | --- | 56.00 | -35.25 | N | ON |
| 3.557 | FINAL | --- | 20.34 | 46.00 | -25.66 | N | ON |
| 5.334 | FINAL | 21.0 | --- | 60.00 | -39.00 | N | ON |
| 5.334 | FINAL | --- | 19.71 | 50.00 | -30.29 | N | ON |
| 18.445 | FINAL | --- | 18.54 | 50.00 | -31.46 | N | ON |
| 18.445 | FINAL | 21.5 | --- | 60.00 | -38.46 | N | ON |

Table 7-28. AC Line Conducted Data (Ch. 9, Config 0, Payload 125 N, with PC via USB-C cable with magnetic charger)

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 61 of 63 |

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Watch FCC ID: BCG-A2774** and **IC: 579C-A2774** is in compliance with Part 15 Subpart F (15.519) of the FCC Rules and RSS-220 of the Innovation, Science and Economic Development Canada Rules.

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 62 of 63 |

9.0 APPENDIX A

Antenna gains provided by manufacturer:

| WiFi/BT 2.4GHz, WiFi 5GHz, UWB Antenna Gain (FCM), Type: IFA | | |
|--|------------------|----------------|
| Frequency (MHz) | Horizontal (dBi) | Vertical (dBi) |
| 2412 | -8.1 | -7.9 |
| 2442 | -7.8 | -7.5 |
| 2472 | -8.2 | -8.0 |
| 5180 | -9.5 | -7.7 |
| 5260 | -9.5 | -7.6 |
| 5320 | -8.8 | -7.0 |
| 5500 | -8.4 | -6.1 |
| 5600 | -8.8 | -6.1 |
| 5700 | -8.0 | -4.9 |
| 5745 | -7.4 | -4.2 |
| 5785 | -7.4 | -4.2 |
| 5825 | -7.6 | -4.1 |
| 6250 | -11.3 | -8.0 |
| 6375 | -12.1 | -8.0 |
| 6500 | -13.8 | -9.7 |
| 6625 | -14.5 | -10.4 |
| 6750 | -13.9 | -9.2 |
| 7750 | -13.6 | -8.0 |
| 7875 | -12.9 | -7.0 |
| 8000 | -12.3 | -5.9 |
| 8125 | -12.6 | -6.7 |
| 8250 | -12.5 | -6.7 |

| | | | |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCG-A2774 IC: 579C-A2774 |  element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
| Test Report S/N: 1C2205090040-13.BCG | Test Dates: 6/7/2022 - 8/5/2022 | EUT Type: Watch | Page 63 of 63 |