

# **TEST REPORT**

**Report Number :** 15496277-E20V2

**Applicant :** APPLE INC.  
1 APPLE PARK WAY  
CUPERTINO, CA 95014, U.S.A.

**Model :** A3258 (PARENT)  
A3519, A3520, A3521 (VARIANTS)

**Brand :** APPLE

**FCC ID :** BCG-E8947A (PARENT)  
BCG-E8951A, BCG-E8952A, BCG-E8953A (VARIANTS)

**IC :** 579C-E8947A (PARENT)  
579C-E8951A, 579C-E8952A, 579C-E8953A (VARIANTS)

**EUT Description :** SMARTPHONE

**Test Standard(s) :** FCC 47 CFR PART 15 SUBPART F §15.519  
ISED RSS-220 ISSUE 1 AMENDMENT 1

**Date Of Issue:**  
AUGUST 12, 2025

**Prepared by:**  
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Revision History

| Rev. | Issue Date | Revisions                                               | Revised By     |
|------|------------|---------------------------------------------------------|----------------|
| V1   | 7/29/2025  | Initial Issue                                           | Marc Alejandro |
| V2   | 8/12/2025  | Updated CF values, section numbers and added Appendix A | Marc Alejandro |

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**1. ATTESTATION OF TEST RESULTS**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Applicant Name and Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | APPLE INC.<br>1 APPLE PARK WAY<br>CUPERTINO, CA 95014, U.S.A.                        |
| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A3258 (PARENT)<br>A3519, A3520, A3521 (VARIANTS)                                     |
| Brand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | APPLE                                                                                |
| FCC ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BCG-E8947A (Parent)<br>BCG-E8951A, BCG-E8952A, BCG-E8953A (Variants)                 |
| IC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 579C-E8947A (Parent)<br>579C-E8951A, 579C-E8952A, 579C-E8953A (Variants)             |
| EUT Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SMARTPHONE                                                                           |
| SERIAL NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | J6GW2J49T2, K66J2F9LJ7, JKW20PYPW5                                                   |
| SAMPLE RECEIPT DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FEBRUARY 20 2025, JUNE 13 2025                                                       |
| DATE TESTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | APRIL 08, 2025 TO JUNE 29, 2025                                                      |
| Applicable Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FCC 47 CFR PART 15 SUBPART F §15.519<br>ISED RSS-220 ISSUE 1 AMENDMENT 1             |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | COMPLIES                                                                             |
| <p>UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.</p> <p>The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.</p> <p>This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.</p> |                                                                                      |
| Approved & Released By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Prepared & Reviewed By:                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Thu Chan<br>Staff Engineer<br>UL Verification Services, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Marc Alejandro<br>Laboratory Engineer Associate<br>UL Verification Services, Inc.    |

## 2. TEST RESULTS SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

| FCC Clause              | ISED Clause                     | Requirement                       | Result                  | Comment                   |
|-------------------------|---------------------------------|-----------------------------------|-------------------------|---------------------------|
| See Comment             |                                 | Duty Cycle                        | Reporting purposes only | ANSI C63.10 Section 11.6  |
| -                       | RSS-GEN 6.7                     | 99% OBW                           | Reporting purposes only | ANSI C63.10 Section 6.9.4 |
| 15.503 & 15.519 (b)     | RSS-220 Sect. 2                 | -10 dB BW                         | Complies                | ANSI C63.10 Section 10.1  |
| 15.519 (c) & (e)        | RSS-220 Sect. 4 (c) & 5.3.1 (d) | Pk Power & Max Avg Emissions      | Complies                | ANSI C63.10 Section 10.3  |
| 15.519 (a)(1)           | RSS-220 Sect. 5.3.1 (b)         | Cessation Time                    | Complies                | None                      |
| 15.519 (c) & 15.209 (a) | RSS-220 Sect. 3.4               | Emissions Below 960 MHz           | Complies                | ANSI C63.10 Section 10.2  |
| 15.519 (c) & (d)        | RSS-220 Sect. 5.3.1 (d) & (e)   | Emissions Above 960 MHz           | Complies                | ANSI C63.10 Section 10.3  |
| 15.207 (a)              | RSS-Gen 8.8                     | AC Power Line Conducted Emissions | Complies                | ANSI C63.10 Section 6.2   |

### 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- \*ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- CFR Title 47 Part 15 Subpart F
- KDB 393764 D01 UWB FAQ v02r01
- ISED RSS-220 Issue 1 Amendment 1
- ISED RSS GEN Issue 5 Amendment 2

\*Note: The use of ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 does not deviate from the testing procedures of ANSI C63.10-2020.

### 4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

|                                     | Address                                                  | ISED<br>CABID | ISED<br>Company<br>Number | FCC<br>Registration |
|-------------------------------------|----------------------------------------------------------|---------------|---------------------------|---------------------|
| <input type="checkbox"/>            | Building 1: 47173 Benicia Street, Fremont, CA 94538, USA | US0104        | 2324A                     | 550739              |
| <input checked="" type="checkbox"/> | Building 2: 47266 Benicia Street, Fremont, CA 94538, USA |               |                           |                     |
| <input type="checkbox"/>            | Building 3: 843 Auburn Ct, Fremont, CA 94538, USA        |               |                           |                     |
| <input type="checkbox"/>            | Building 4: 47658 Kato Rd, Fremont, CA 94538, USA        |               |                           |                     |
| <input checked="" type="checkbox"/> | Building 5: 47670 Kato Rd, Fremont, CA 94538, USA        |               |                           |                     |

## 5. DECISION RULES AND MEASUREMENT UNCERTAINTY

### 5.1 METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

### 5.2 DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

### 5.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER                                           | U <sub>LAB</sub> |
|-----------------------------------------------------|------------------|
| Conducted Antenna Port Emission Measurement         | 1.940 dB         |
| Power Spectral Density                              | 2.466 dB         |
| Time Domain Measurements Using SA                   | 3.39 %           |
| Radio Frequency (Spectrum Analyzer)                 | 141.16 Hz        |
| Occupied Bandwidth                                  | 1.22%            |
| Worst Case Conducted Disturbance, 9KHz to 0.15 MHz  | 3.78 dB          |
| Worst Case Conducted Disturbance, 0.15 to 30 MHz    | 3.40 dB          |
| Worst Case Radiated Disturbance, 9KHz to 30 MHz     | 2.87 dB          |
| Worst Case Radiated Disturbance, 30 to 1000 MHz     | 6.01 dB          |
| Worst Case Radiated Disturbance, 1000 to 18000 MHz  | 4.73 dB          |
| Worst Case Radiated Disturbance, 18000 to 26000 MHz | 4.51 dB          |
| Worst Case Radiated Disturbance, 26000 to 40000 MHz | 5.29 dB          |

Uncertainty figures are valid to a confidence level of 95%.

## 5.1. SAMPLE CALCULATION

### **RADIATED EMISSIONS**

Where relevant, the following sample calculation is provided:

$$\begin{aligned}\text{EIRP (dBm)} &= \text{Meter Reading (dBm)} + \text{Antenna Factor (dB/m)} + \text{Pre-Amp Gain/Cbl Loss (dB)} \\ &\quad + \text{dBm-to-dBm Unit Conversion Factor @ 3m} \\ &= -60 \text{ dBm} + 28 \text{ dB/m} + (-27) \text{ dB} + 11.8 \\ &= -47.2 \text{ dBm}\end{aligned}$$

### **MAINS CONDUCTED EMISSIONS**

Where relevant, the following sample calculation is provided:

$$\begin{aligned}\text{Final Voltage (dBuV)} &= \text{Measured Voltage (dBuV)} + \text{LISN Insertion Loss (dB)} + \text{Cable Loss (dB)} \\ &\quad + \text{Limiter Factor (dB)} \\ &= 42.19 \text{ dBuV} + 0.1 \text{ dB} + 0 \text{ dB} + 9.4 \text{ (dB)} \\ &= 51.69 \text{ dBuV}\end{aligned}$$

## 6. EQUIPMENT UNDER TEST

### 6.1 DESCRIPTION OF EUT

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible.

The EUT has a UWB transceiver with two integral antennas (ANT1 = ANT8/UWB1, ANT2 = ANT6/UWB0). Channel 9 can transmit through ANT1 and ANT2, and Channel 5 can only transmit through ANT2. The antenna is not user accessible.

### 6.2 MAXIMUM OUTPUT POWER

Highest Average Powers based on ANT/CH are listed as follows:

| ANT | CH | CONFIG | PL    | Average Power (dBm EIRP) |
|-----|----|--------|-------|--------------------------|
| 1   | 9  | 801    | 0Gap0 | -42.35                   |
| 2   | 5  | 0      | 25    | -42.30                   |
| 2   | 9  | 103    | 125   | -42.33                   |

### 6.3 MODULATION

The UWB signal is BPSK pulsed modulated signal.

### 6.4 SOFTWARE AND FIRMWARE

The Software and Firmware version used at test is 23A258.

## 7. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| SUPPORT EQUIPMENT LIST    |              |                            |                   |
|---------------------------|--------------|----------------------------|-------------------|
| Description               | Manufacturer | Model                      | Serial Number     |
| Laptop + Adapter          | Apple        | MacBook Pro                | FVFWKENDHV29      |
| Brisket – USB Adapter     | Apple        | Brisket UART Cable Pigtail | F2010M20000798    |
| USB-C Power Adapter       | Apple        | A2305                      | F162163404UPM0685 |
| USB-C 96W Power Adapter   | Apple        | A2166                      | C4H232105JPPM0WAH |
| USB-C Ethernet Adapter    | Ugreen       | CM475                      | 60600             |
| USB-A to USB-C adapter    | Anker        | A8731                      | XX02NCP6GR        |
| USB-A Cable with Repeater | Ugreen       | 10321                      | X000TT2OLL        |

### I/O CABLES

| I/O CABLES |                      |                |             |                  |         |
|------------|----------------------|----------------|-------------|------------------|---------|
| Port       | # of Identical Ports | Connector Type | Cable Type  | Cable Length (m) | Remarks |
| AC         | 1                    | AC             | Un-shielded | 2                | N/A     |
| USB        | 1                    | USB            | Un-shielded | 1                | N/A     |

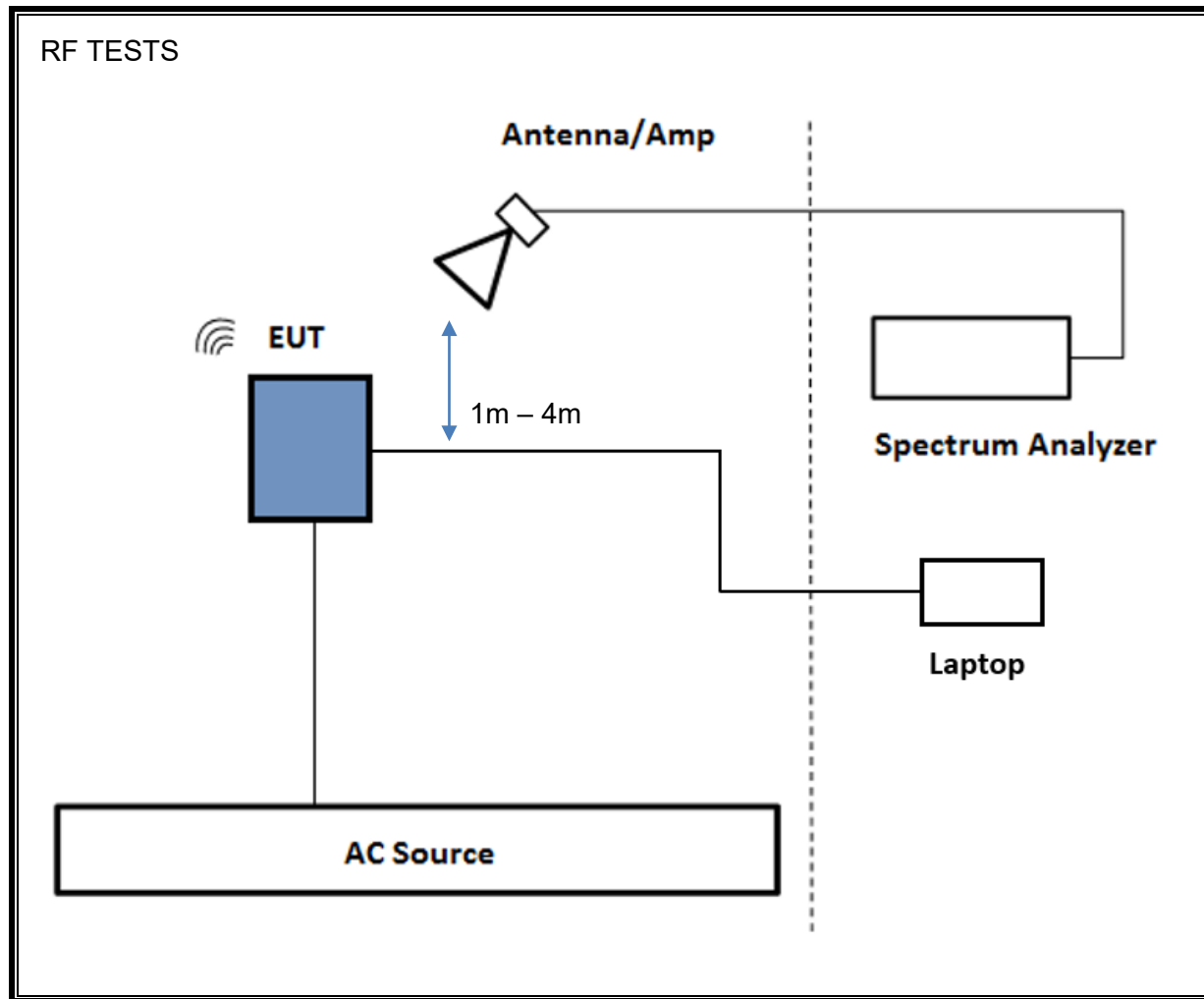
### TEST SETUP

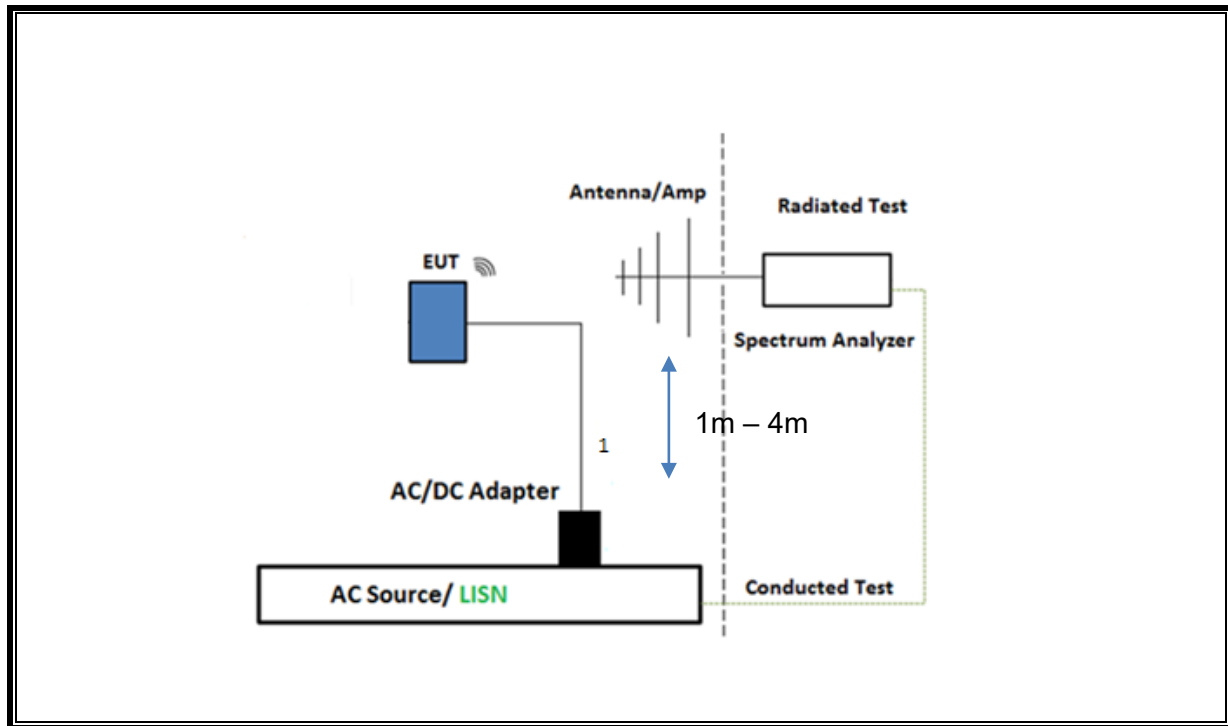
The EUT was examined at pre-scan test using a fundamental frequency in the portrait (z), landscape (y), and flatbed (x) position and the worst-case orientation of individual ANT/CH/CONFIG setting was determined for final spurious emission measurement. All selected configs are used for the Ant/Ch settings that were tested at default power (0 dBm), and Config 9 Payload 125 was chosen for unwanted emission test with both CH5 and CH9 on Ant 1 by setting at maximum output power higher than 0 dBm.

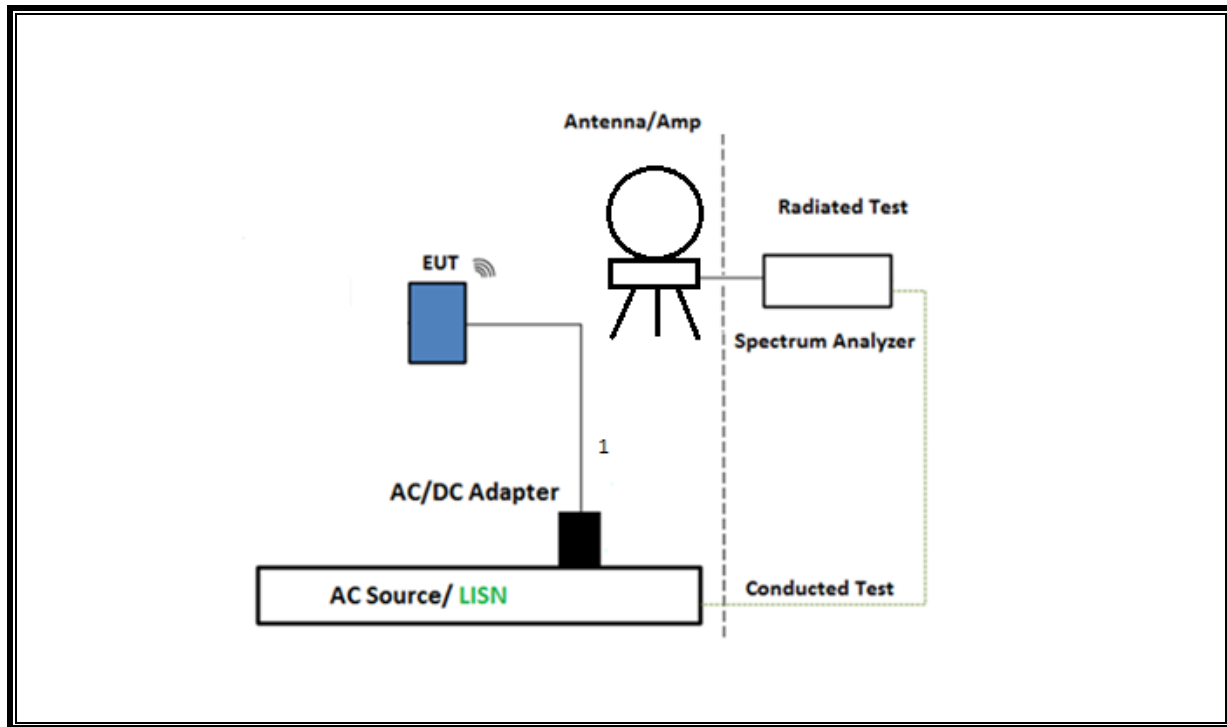
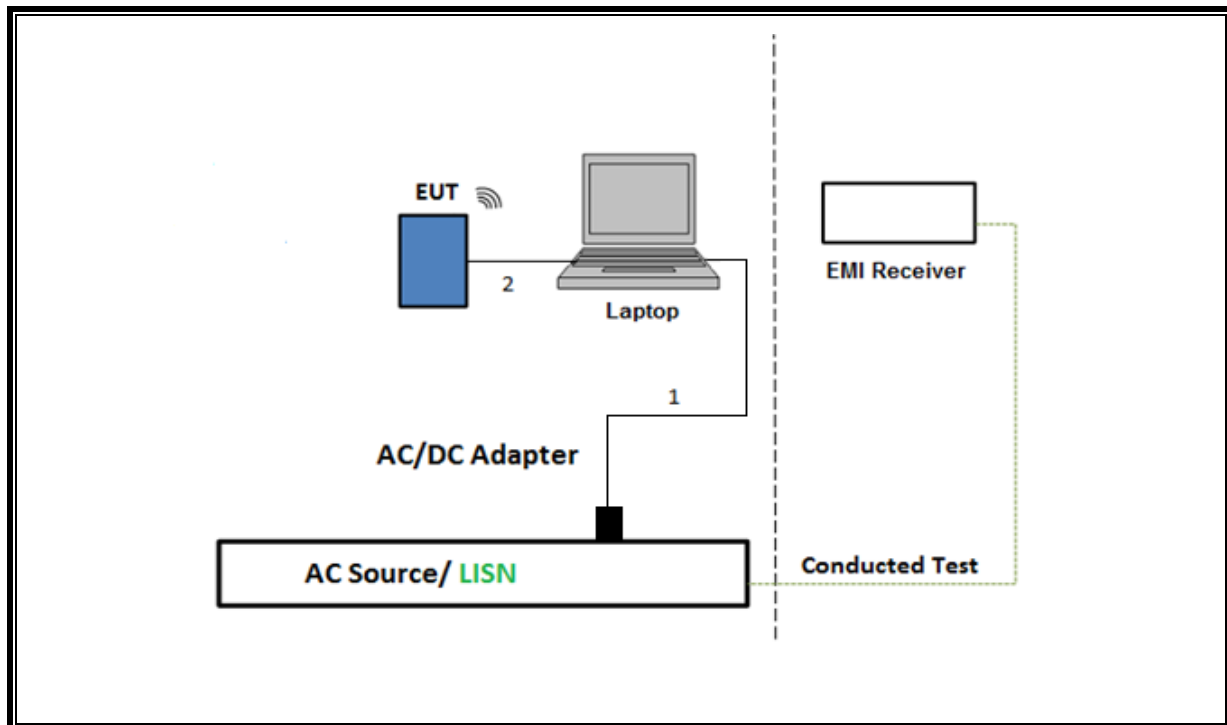
Measurements of spurious average emissions were made with the device operating at a higher power than production power to ensure compliance. Measurements of the in-band signal (peak and average emissions, 10 dBc bandwidth, 99% bandwidth) were all made at the production power settings.

EUT was connected to AC power adapter in all test cases except 0.96 – 5 GHz, 1164 – 1240 MHz, and 1559 – 1610 MHz due to noise unrelated to the UWB signal from the device.

For simultaneous transmission on the same antenna of multiple channels in the UWB and WiFi, no noticeable new emission was found.

**SETUP DIAGRAM FOR Above 1GHz TESTS**

**SETUP DIAGRAM FOR Below 1GHz, Below 30MHz, and AC LINE CONDUCTED TEST**

**TEST SETUP- Below 30MHz Radiated****TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION**

## 8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| Test Equipment                                          |                                     |                              |                         |            |            |
|---------------------------------------------------------|-------------------------------------|------------------------------|-------------------------|------------|------------|
| Description                                             | Manufacturer                        | Model                        | Local ID                | Cal Due    | Cal Date   |
| EMI Test Receiver                                       | Rohde & Schwarz                     | ESW44                        | 235266                  | 2/28/2026  | 2/14/2025  |
| Antenna, Broadband Hybrid 30 MHz - 2 or 3 GHz           | Sunol Sciences Corp.                | JB3                          | 203301                  | 2/28/2027  | 2/12/2025  |
| Link File, @3m, 9kHz-1000MHz Hybrid Path Loss           | UL-FR1                              | Port 0 Factors               | 212011                  | 2/28/2026  | 2/21/2025  |
| EMI Test Receiver                                       | Rohde & Schwarz                     | ESW44                        | 223460                  | 2/28/2026  | 2/9/2025   |
| Antenna, Broadband Hybrid 30 MHz - 2 or 3 GHz           | Sunol Sciences Corp.                | JB3                          | 222009                  | 10/31/2025 | 10/23/2023 |
| Link File, @3m, 9kHz-1000MHz Hybrid Path Loss           | UL-FR1                              | Port 0 Factors               | 230918                  | 4/30/2026  | 4/28/2025  |
| EMI Test Receiver                                       | Rohde & Schwarz                     | ESW44                        | 201501                  | 2/28/2026  | 2/11/2025  |
| Antenna, Broadband Hybrid 30 MHz - 2 or 3 GHz           | Sunol Sciences Corp.                | JB3                          | 171863                  | 11/30/2026 | 11/8/2024  |
| Link File, @3m, 9kHz-1000MHz Hybrid Path Loss           | UL-FR1                              | Port 0 Factors               | 230919                  | 4/30/2026  | 4/6/2025   |
| Antenna, Horn 1-18GHz                                   | ETS-Lindgren                        | 3117                         | 230300                  | 3/31/2027  | 3/10/2025  |
| RF Filter Box, 1-18GHz                                  | UL-FR1                              | RATS 2.0                     | 225474                  | 5/31/2026  | 5/12/2025  |
| EMI Test Receiver                                       | Rohde & Schwarz                     | ESW44                        | 226078                  | 2/28/2026  | 2/9/2025   |
| Antenna, Broadband Hybrid 30 MHz - 2 or 3 GHz           | Sunol Sciences Corp.                | JB3                          | 174343                  | 3/31/2027  | 3/26/2025  |
| Link File, @3m, 9kHz-1000MHz Hybrid Path Loss           | UL-FR1                              | Port 0 Factors               | 231827                  | 3/31/2026  | 3/31/2025  |
| Antenna, Passive Loop, 30Hz - 1MHz                      | Electro-Metrics                     | EM-6871                      | 170013                  | 9/30/2026  | 9/10/2024  |
| Antenna, Passive Loop, 100kHz to 30MHz                  | Electro-Metrics                     | EM-6872                      | 170015                  | 9/30/2026  | 9/10/2024  |
| Antenna, Horn 18-26.5GHz                                | A.R.A                               | MWH-1826/B                   | 81139                   | 8/31/2025  | 8/8/2023   |
| Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain | Ampical                             | AMP18G26.5-60                | 220194                  | 4/30/2026  | 4/9/2025   |
| Antenna, Horn 26.5-40GHz                                | A.R.A                               | MWH-2640/B                   | 81105                   | 8/31/2025  | 8/8/2023   |
| Link File, RF Amplifier Assembly, 26.5-40GHz, 65dB Gain | Ampical                             | AMP26G40-65                  | 220193                  | 4/30/2026  | 4/9/2025   |
| EMI Test Receiver                                       | Rohde & Schwarz                     | ESR3                         | 171646                  | 2/28/2026  | 2/18/2025  |
| Transient Limiter / Attenuator                          | Tekbox                              | TBFL1                        | 207996                  | 9/30/2025  | 9/24/2024  |
| LISN                                                    | Fischer Custom Communications, Inc. | FCC-LISN-50/250-25-2-01-480V | 175765                  | 1/31/2026  | 1/28/2025  |
| Radiated Software                                       | UL                                  | UL EMC                       | Version 9.5 09 Jan 2023 |            |            |
| AC Line Conducted Software                              | UL                                  | UL EMC                       | Version 9.5 09 Jan 2023 |            |            |

*\*Tests were performed prior to the calibration date to ensure accurate measurements were recorded.*

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## 9. APPLICABLE LIMITS AND TEST RESULTS

### 9.1 99% BANDWIDTH

#### LIMIT

None; for reporting purposes only.

#### TEST PROCEDURE

ANSI C63.10 Section 6.9.3

The transmitter output is connected to a spectrum analyzer. The RBW is in the range of 1% to 5% of the OBW bandwidth. The VBW is set to  $\geq 3 \times \text{RBW}$ . The sweep time is coupled.

Tabulated data provides the test results of all available test configurations. The plots for ANT1, CONFIG 9, Payload 125 on CH9 and ANT1, CONFIG 9, Payload 125 on CH5 bandwidth measurement are presented and same measurement settings apply to the rest of the test configurations.

#### RESULTS

Employee IDs: 26051, 32316, 105892, 112243

Location: Chamber 05-RDE-B

Test Date: 5/30/2025 to 6/12/2025

**ANT1, CH9**

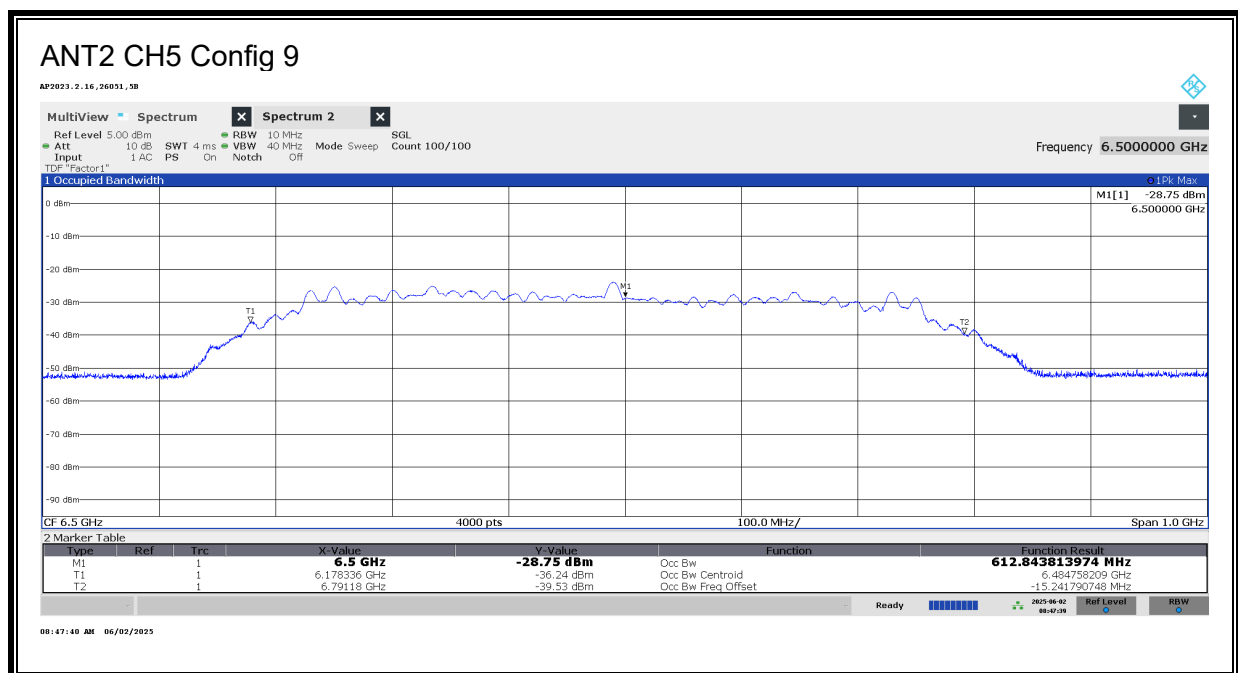
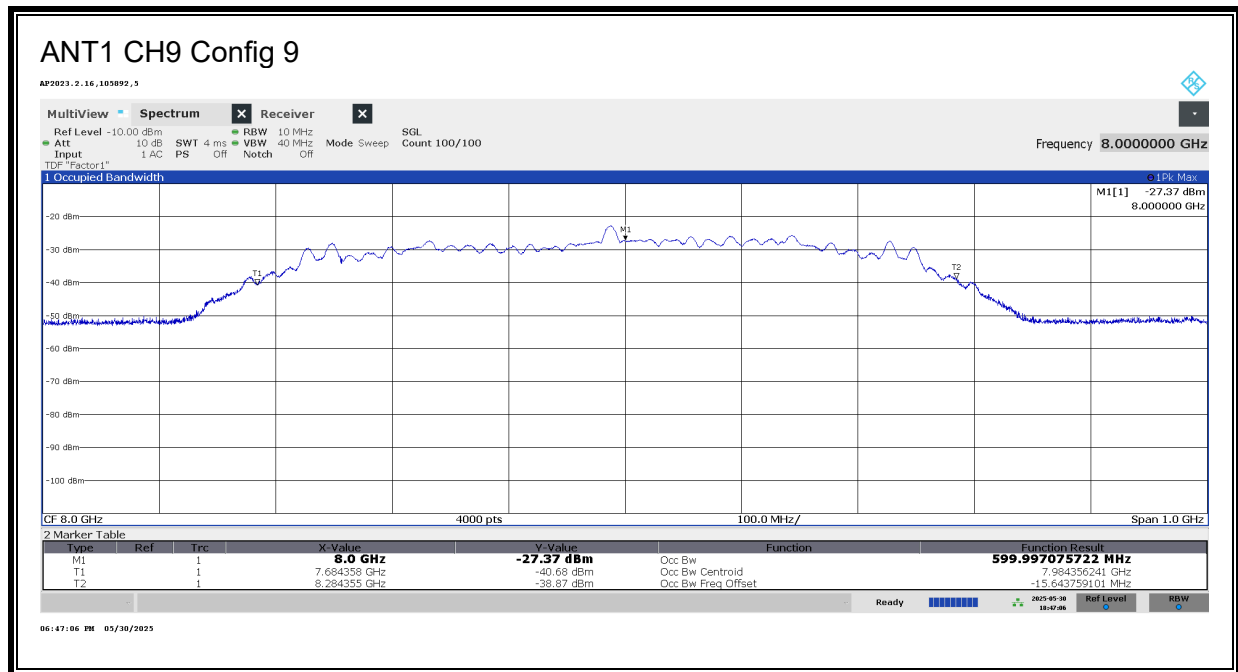
| ANT | CH | CF  | PL     | EUT<br>Orientation | Ant.<br>Polarity | 99% BW<br>(MHz) |
|-----|----|-----|--------|--------------------|------------------|-----------------|
| 1   | 9  | 0   | 25     | Flatbed            | V                | 591.835         |
| 1   | 9  | 1   | 45     | Flatbed            | V                | 584.156         |
| 1   | 9  | 6   | 125    | Flatbed            | V                | 607.957         |
| 1   | 9  | 9   | 125    | Flatbed            | V                | 599.997         |
| 1   | 9  | 10  | 25     | Flatbed            | V                | 583.989         |
| 1   | 9  | 11  | 25     | Flatbed            | V                | 582.318         |
| 1   | 9  | 11  | 65     | Flatbed            | V                | 584.039         |
| 1   | 9  | 101 | 25     | Flatbed            | V                | 582.127         |
| 1   | 9  | 101 | 65     | Flatbed            | V                | 584.193         |
| 1   | 9  | 102 | 25     | Flatbed            | V                | 582.173         |
| 1   | 9  | 102 | 65     | Flatbed            | V                | 584.628         |
| 1   | 9  | 103 | 25     | Flatbed            | V                | 585.635         |
| 1   | 9  | 103 | 125    | Flatbed            | V                | 590.729         |
| 1   | 9  | 202 | 625    | Flatbed            | V                | 808.772         |
| 1   | 9  | 402 | 445    | Flatbed            | V                | 718.718         |
| 1   | 9  | 501 | 0      | Flatbed            | V                | 575.327         |
| 1   | 9  | 503 | 0      | Flatbed            | V                | 574.595         |
| 1   | 9  | 601 | 0      | Flatbed            | V                | 591.689         |
| 1   | 9  | 605 | 0      | Flatbed            | V                | 584.738         |
| 1   | 9  | 607 | 0      | Flatbed            | V                | 585.202         |
| 1   | 9  | 701 | 0      | Flatbed            | V                | 594.068         |
| 1   | 9  | 702 | 0      | Flatbed            | V                | 583.834         |
| 1   | 9  | 703 | 0      | Flatbed            | V                | 592.951         |
| 1   | 9  | 704 | 0      | Flatbed            | V                | 614.530         |
| 1   | 9  | 705 | 0      | Flatbed            | V                | 607.381         |
| 1   | 9  | 706 | 0      | Flatbed            | V                | 607.147         |
| 1   | 9  | 405 | 4093   | Flatbed            | V                | 776.318         |
| 1   | 9  | 407 | 4093   | Flatbed            | V                | 766.226         |
| 1   | 9  | 409 | 4093   | Flatbed            | V                | 771.904         |
| 1   | 9  | 801 | 0Gap0  | Flatbed            | V                | 597.163         |
| 1   | 9  | 801 | 0Gap64 | Flatbed            | V                | 598.300         |
| 1   | 9  | 802 | 0      | Flatbed            | V                | 591.474         |
| 1   | 9  | 803 | 0      | Flatbed            | V                | 589.509         |
| 1   | 9  | 804 | 0Gap0  | Flatbed            | V                | 615.495         |
| 1   | 9  | 804 | 0Gap64 | Flatbed            | V                | 611.892         |
| 1   | 9  | 805 | 0      | Flatbed            | V                | 613.301         |
| 1   | 9  | 806 | 0      | Flatbed            | V                | 610.789         |
| 1   | 9  | 807 | 0Gap0  | Flatbed            | V                | 592.551         |
| 1   | 9  | 807 | 0Gap64 | Flatbed            | V                | 591.980         |
| 1   | 9  | 808 | 0      | Flatbed            | V                | 591.647         |
| 1   | 9  | 809 | 0      | Flatbed            | V                | 593.544         |
| 1   | 9  | 80A | 0Gap0  | Flatbed            | V                | 614.146         |
| 1   | 9  | 80A | 0Gap64 | Flatbed            | V                | 603.668         |
| 1   | 9  | 80B | 0      | Flatbed            | V                | 603.707         |
| 1   | 9  | 80C | 0      | Flatbed            | V                | 602.881         |

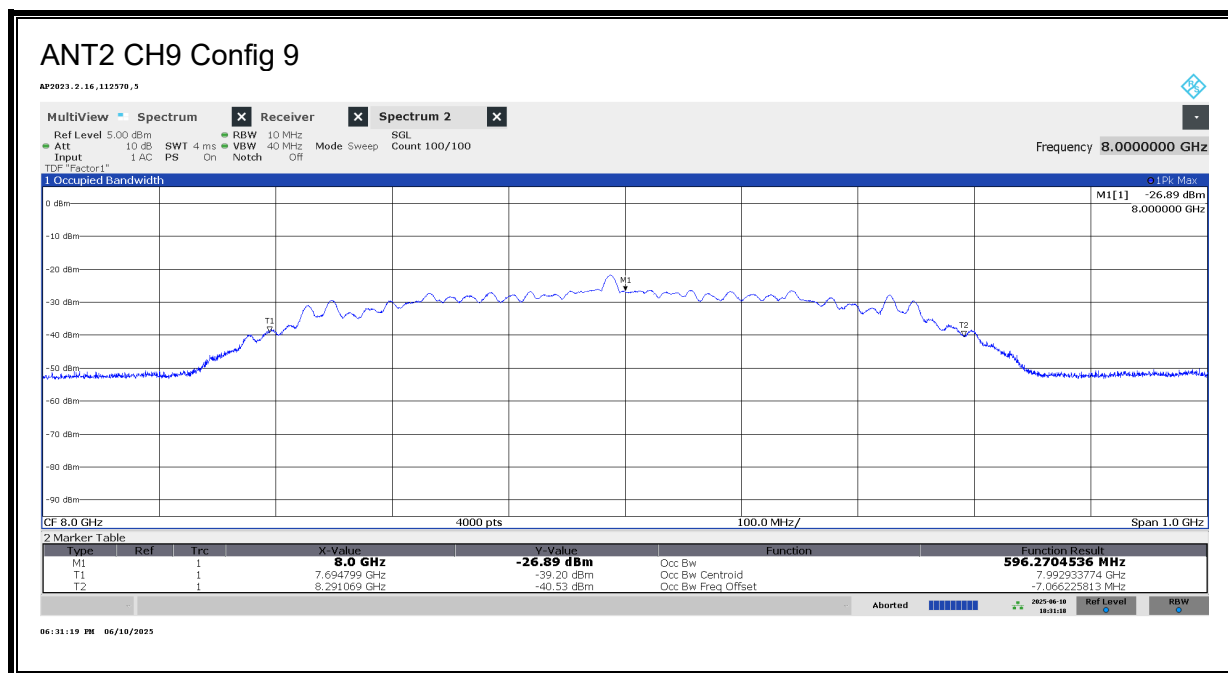
**ANT2, CH5**

| ANT | CH | CF  | PL     | EUT<br>Orientation | Ant.<br>Polarity | 99% BW<br>(MHz) |
|-----|----|-----|--------|--------------------|------------------|-----------------|
| 2   | 5  | 0   | 25     | Portrait           | H                | 597.021         |
| 2   | 5  | 1   | 45     | Portrait           | H                | 596.697         |
| 2   | 5  | 6   | 125    | Portrait           | H                | 609.978         |
| 2   | 5  | 9   | 125    | Portrait           | H                | 612.844         |
| 2   | 5  | 10  | 25     | Portrait           | H                | 598.658         |
| 2   | 5  | 11  | 25     | Portrait           | H                | 597.505         |
| 2   | 5  | 11  | 65     | Portrait           | H                | 598.749         |
| 2   | 5  | 101 | 25     | Portrait           | H                | 597.877         |
| 2   | 5  | 101 | 65     | Portrait           | H                | 599.194         |
| 2   | 5  | 102 | 25     | Portrait           | H                | 597.185         |
| 2   | 5  | 102 | 65     | Portrait           | H                | 599.010         |
| 2   | 5  | 103 | 25     | Portrait           | H                | 598.904         |
| 2   | 5  | 103 | 125    | Portrait           | H                | 603.238         |
| 2   | 5  | 202 | 625    | Portrait           | H                | 749.572         |
| 2   | 5  | 402 | 445    | Portrait           | H                | 677.519         |
| 2   | 5  | 501 | 0      | Portrait           | H                | 593.459         |
| 2   | 5  | 503 | 0      | Portrait           | H                | 577.625         |
| 2   | 5  | 601 | 0      | Portrait           | H                | 617.984         |
| 2   | 5  | 605 | 0      | Portrait           | H                | 613.554         |
| 2   | 5  | 607 | 0      | Portrait           | H                | 613.368         |
| 2   | 5  | 701 | 0      | Portrait           | H                | 598.552         |
| 2   | 5  | 702 | 0      | Portrait           | H                | 594.685         |
| 2   | 5  | 703 | 0      | Portrait           | H                | 595.495         |
| 2   | 5  | 704 | 0      | Portrait           | H                | 628.903         |
| 2   | 5  | 705 | 0      | Portrait           | H                | 622.905         |
| 2   | 5  | 706 | 0      | Portrait           | H                | 625.579         |
| 2   | 5  | 405 | 4093   | Portrait           | H                | 713.911         |
| 2   | 5  | 407 | 4093   | Portrait           | H                | 681.982         |
| 2   | 5  | 409 | 4093   | Portrait           | H                | 708.859         |
| 2   | 5  | 801 | 0Gap0  | Portrait           | H                | 619.842         |
| 2   | 5  | 801 | 0Gap64 | Portrait           | H                | 619.706         |
| 2   | 5  | 802 | 0      | Portrait           | H                | 619.195         |
| 2   | 5  | 803 | 0      | Portrait           | H                | 618.211         |
| 2   | 5  | 804 | 0Gap0  | Portrait           | H                | 625.240         |
| 2   | 5  | 804 | 0Gap64 | Portrait           | H                | 624.640         |
| 2   | 5  | 805 | 0      | Portrait           | H                | 625.161         |
| 2   | 5  | 806 | 0      | Portrait           | H                | 622.879         |
| 2   | 5  | 807 | 0Gap0  | Portrait           | H                | 619.466         |
| 2   | 5  | 807 | 0Gap64 | Portrait           | H                | 618.440         |
| 2   | 5  | 808 | 0      | Portrait           | H                | 599.124         |
| 2   | 5  | 809 | 0      | Portrait           | H                | 597.213         |
| 2   | 5  | 80A | 0Gap0  | Portrait           | H                | 611.986         |
| 2   | 5  | 80A | 0Gap64 | Portrait           | H                | 607.062         |
| 2   | 5  | 80B | 0      | Portrait           | H                | 606.672         |
| 2   | 5  | 80C | 0      | Portrait           | H                | 607.599         |

**ANT2, CH9**

| ANT | CH | CF  | PL     | EUT<br>Orientation | Ant.<br>Polarity | 99% BW<br>(MHz) |
|-----|----|-----|--------|--------------------|------------------|-----------------|
| 2   | 9  | 0   | 25     | Landscape          | H                | 583.838         |
| 2   | 9  | 1   | 45     | Landscape          | H                | 583.768         |
| 2   | 9  | 6   | 125    | Landscape          | H                | 595.712         |
| 2   | 9  | 9   | 125    | Landscape          | H                | 596.270         |
| 2   | 9  | 10  | 25     | Landscape          | H                | 582.111         |
| 2   | 9  | 11  | 25     | Landscape          | H                | 580.085         |
| 2   | 9  | 11  | 65     | Landscape          | H                | 584.818         |
| 2   | 9  | 101 | 25     | Landscape          | H                | 582.231         |
| 2   | 9  | 101 | 65     | Landscape          | H                | 583.623         |
| 2   | 9  | 102 | 25     | Landscape          | H                | 582.580         |
| 2   | 9  | 102 | 65     | Landscape          | H                | 583.709         |
| 2   | 9  | 103 | 25     | Landscape          | H                | 583.480         |
| 2   | 9  | 103 | 125    | Landscape          | H                | 589.142         |
| 2   | 9  | 202 | 625    | Landscape          | H                | 822.723         |
| 2   | 9  | 402 | 445    | Landscape          | H                | 715.983         |
| 2   | 9  | 501 | 0      | Landscape          | H                | 580.801         |
| 2   | 9  | 503 | 0      | Landscape          | H                | 578.727         |
| 2   | 9  | 601 | 0      | Landscape          | H                | 594.594         |
| 2   | 9  | 605 | 0      | Landscape          | H                | 582.849         |
| 2   | 9  | 607 | 0      | Landscape          | H                | 581.431         |
| 2   | 9  | 701 | 0      | Landscape          | H                | 592.439         |
| 2   | 9  | 702 | 0      | Landscape          | H                | 578.199         |
| 2   | 9  | 703 | 0      | Landscape          | H                | 581.941         |
| 2   | 9  | 704 | 0      | Landscape          | H                | 606.047         |
| 2   | 9  | 705 | 0      | Landscape          | H                | 592.069         |
| 2   | 9  | 706 | 0      | Landscape          | H                | 593.998         |
| 2   | 9  | 405 | 4093   | Landscape          | H                | 739.559         |
| 2   | 9  | 407 | 4093   | Landscape          | H                | 709.098         |
| 2   | 9  | 409 | 4093   | Landscape          | H                | 733.500         |
| 2   | 9  | 801 | 0Gap0  | Landscape          | H                | 589.894         |
| 2   | 9  | 801 | 0Gap64 | Landscape          | H                | 589.026         |
| 2   | 9  | 802 | 0      | Landscape          | H                | 589.009         |
| 2   | 9  | 803 | 0      | Landscape          | H                | 584.479         |
| 2   | 9  | 804 | 0Gap0  | Landscape          | H                | 606.396         |
| 2   | 9  | 804 | 0Gap64 | Landscape          | H                | 605.275         |
| 2   | 9  | 805 | 0      | Landscape          | H                | 603.024         |
| 2   | 9  | 806 | 0      | Landscape          | H                | 596.210         |
| 2   | 9  | 807 | 0Gap0  | Landscape          | H                | 589.252         |
| 2   | 9  | 807 | 0Gap64 | Landscape          | H                | 588.196         |
| 2   | 9  | 808 | 0      | Landscape          | H                | 585.921         |
| 2   | 9  | 809 | 0      | Landscape          | H                | 586.379         |
| 2   | 9  | 80A | 0Gap0  | Landscape          | H                | 608.497         |
| 2   | 9  | 80A | 0Gap64 | Landscape          | H                | 593.444         |
| 2   | 9  | 80B | 0      | Landscape          | H                | 594.866         |
| 2   | 9  | 80C | 0      | Landscape          | H                | 594.480         |

**99% BW**



## 9.2 OPERATING BANDWIDTH

### LIMITS

#### FCC

§15.503 (a) *UWB bandwidth*. For the purpose of this subpart, 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  $f_M$ .

§15.503 (b) *Center frequency*. The center frequency,  $f_C$ , equals  $(f_H + f_L)/2$ .

§15.503 (c) *Fractional bandwidth*. The fractional bandwidth equals  $2(f_H - f_L)/(f_H + f_L)$ .

§15.503 (d) *Ultra-wideband (UWB) transmitter*. An intentional radiator that, at any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth.

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

#### RSS-220

Section 2 A *UWB device* is an intentional radiator that has either a *-10 dB bandwidth* of at least 500 MHz or a *-10 dB fractional bandwidth* greater than 0.2.

Section 5.1 (a) The -10 dB bandwidth of the device shall be totally contained in the band 3.1-10.6 GHz.

“-10 dB bandwidth  $B_{-10}$ ” and “-10 dB fractional bandwidth  $\mu_{-10}$ ” are defined as follows:

$$B_{-10} = f_H - f_L$$

$$\mu_{-10} = B_{-10}/f_C$$

where:

$f_M$  is the frequency of maximum UWB transmission;

$f_H$  is the highest frequency at which the power spectral density of the UWB transmission is -10 dB relative to  $f_M$ ;

$f_L$  is the lowest frequency at which the power spectral density of the UWB transmission is -10 dB relative to  $f_M$ ; and

$f_C = (f_H + f_L)/2$  is the centre frequency of the -10 dB bandwidth.

**TEST PROCEDURE**

ANSI C63.10 Clause 10.1

RSS-220 Section 2 of the Annex

Tabulated data provides the test results of all available test configurations. The plots for ANT1, CONFIG 9, Payload 125 on CH9 and ANT2, CONFIG 9, Payload 125 on CH5 and CH9 bandwidth measurement on are presented and same measurement settings apply to the rest of the test configurations.

**RESULTS**

Employee IDs: 26051, 32316, 105892, 112243

Location: Chamber 05-RDE-B

Test Date: 5/30/2025 to 6/12/2025

**ANT1, CH9**

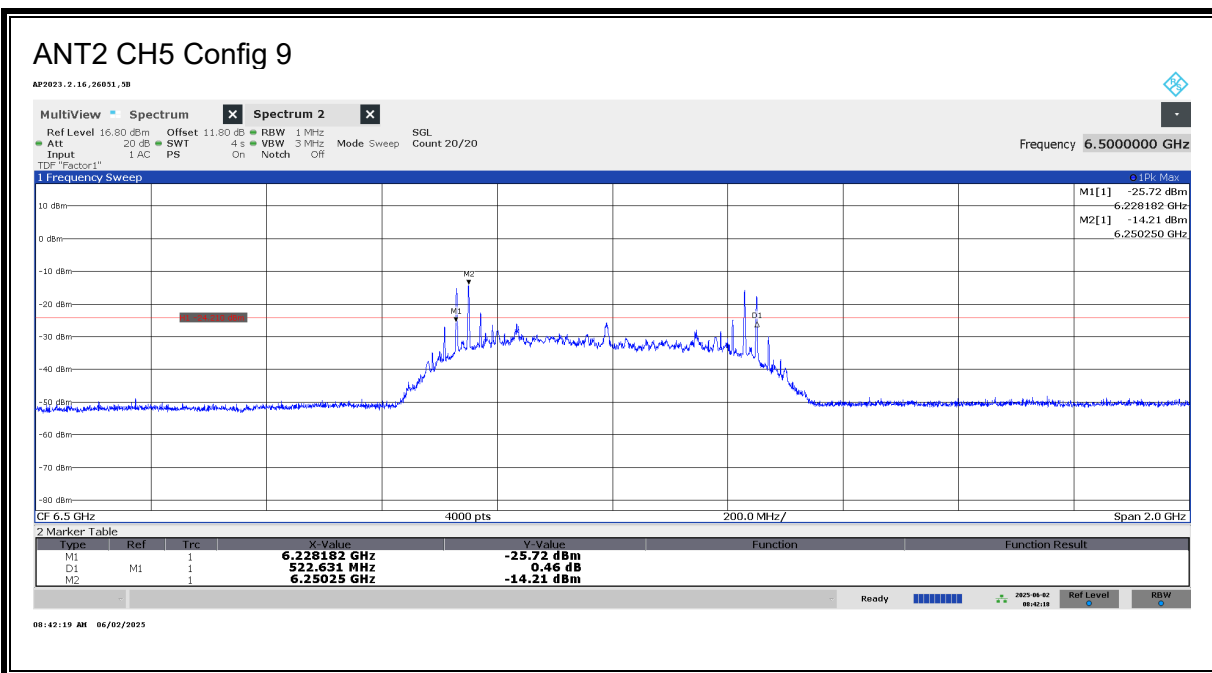
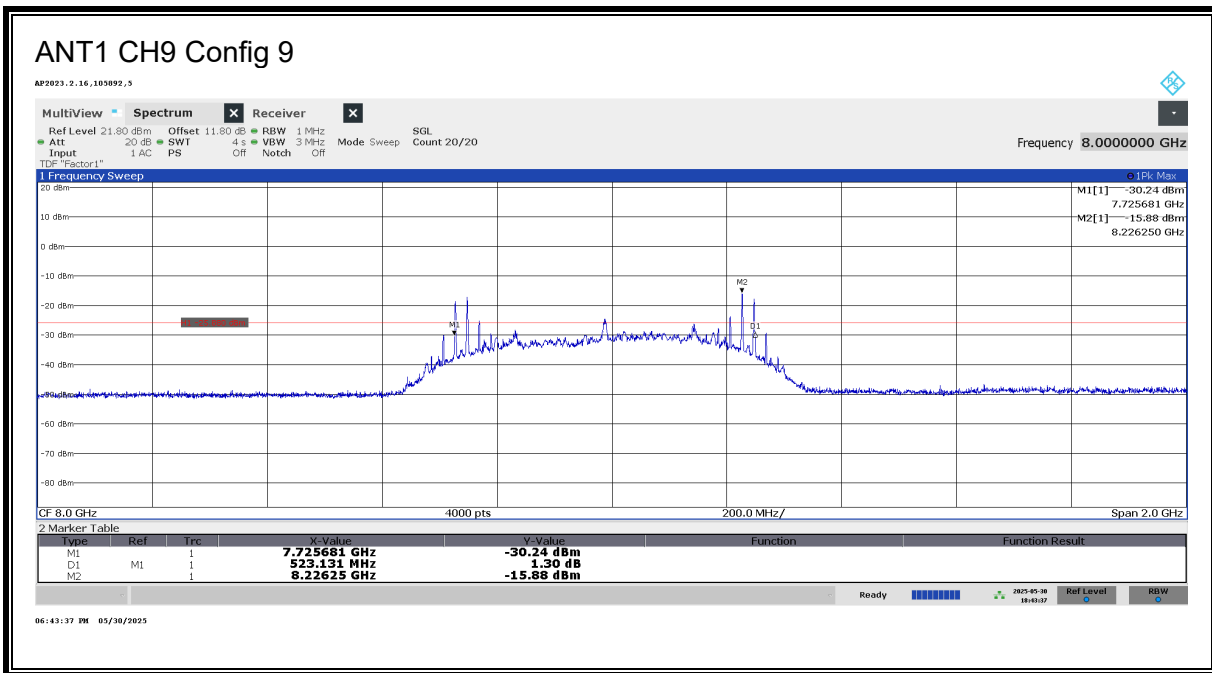
| ANT | CH | CF  | PL     | EUT Orientation | Ant. Polarity | FM (GHz) | FL (GHz) | FH (GHz) | FC (GHz)  | OBW (MHz) | Min. OBW (MHz) | OBW Margin (MHz) | OBW Pass/Fail |
|-----|----|-----|--------|-----------------|---------------|----------|----------|----------|-----------|-----------|----------------|------------------|---------------|
| 1   | 9  | 0   | 25     | Flatbed         | V             | 8.22625  | 7.72468  | 8.250312 | 7.9874965 | 525.631   | 500            | 25.631           | P             |
| 1   | 9  | 1   | 45     | Flatbed         | V             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 6   | 125    | Flatbed         | V             | 8.22625  | 7.72518  | 8.249312 | 7.9872465 | 524.131   | 500            | 24.131           | P             |
| 1   | 9  | 9   | 125    | Flatbed         | V             | 8.22625  | 7.72568  | 8.248812 | 7.9872465 | 523.131   | 500            | 23.131           | P             |
| 1   | 9  | 10  | 25     | Flatbed         | V             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 11  | 25     | Flatbed         | V             | 8.22675  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 11  | 65     | Flatbed         | V             | 8.22675  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 101 | 25     | Flatbed         | V             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 101 | 65     | Flatbed         | V             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 102 | 25     | Flatbed         | V             | 8.22675  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 102 | 65     | Flatbed         | V             | 8.22675  | 7.72468  | 8.250312 | 7.9874965 | 525.631   | 500            | 25.631           | P             |
| 1   | 9  | 103 | 25     | Flatbed         | V             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 103 | 125    | Flatbed         | V             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 202 | 625    | Flatbed         | V             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 402 | 445    | Flatbed         | V             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 501 | 0      | Flatbed         | V             | 8.22675  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 1   | 9  | 503 | 0      | Flatbed         | V             | 8.22675  | 7.72468  | 8.250312 | 7.9874965 | 525.631   | 500            | 25.631           | P             |
| 1   | 9  | 601 | 0      | Flatbed         | V             | 8.22625  | 7.72468  | 8.250312 | 7.9874965 | 525.631   | 500            | 25.631           | P             |
| 1   | 9  | 605 | 0      | Flatbed         | V             | 8.22675  | 7.72468  | 8.250312 | 7.9874965 | 525.631   | 500            | 25.631           | P             |
| 1   | 9  | 607 | 0      | Flatbed         | V             | 8.22625  | 7.72468  | 8.250312 | 7.9874965 | 525.631   | 500            | 25.631           | P             |
| 1   | 9  | 701 | 0      | Flatbed         | V             | 8.22625  | 7.72318  | 8.251313 | 7.987247  | 528.132   | 500            | 28.132           | P             |
| 1   | 9  | 702 | 0      | Flatbed         | V             | 8.22625  | 7.72368  | 8.251813 | 7.987747  | 528.132   | 500            | 28.132           | P             |
| 1   | 9  | 703 | 0      | Flatbed         | V             | 8.22575  | 7.72318  | 8.251313 | 7.987247  | 528.132   | 500            | 28.132           | P             |
| 1   | 9  | 704 | 0      | Flatbed         | V             | 8.22625  | 7.72318  | 8.265817 | 7.994499  | 542.636   | 500            | 42.636           | P             |
| 1   | 9  | 705 | 0      | Flatbed         | V             | 8.22575  | 7.72318  | 8.257315 | 7.990248  | 534.134   | 500            | 34.134           | P             |
| 1   | 9  | 706 | 0      | Flatbed         | V             | 8.22625  | 7.72318  | 8.271818 | 7.9974995 | 548.637   | 500            | 48.637           | P             |
| 1   | 9  | 405 | 4093   | Flatbed         | V             | 8.22675  | 7.72118  | 8.256814 | 7.988997  | 535.634   | 500            | 35.634           | P             |
| 1   | 9  | 407 | 4093   | Flatbed         | V             | 8.22675  | 7.72418  | 8.264316 | 7.9942485 | 540.135   | 500            | 40.135           | P             |
| 1   | 9  | 409 | 4093   | Flatbed         | V             | 8.22575  | 7.72518  | 8.249312 | 7.9872465 | 524.131   | 500            | 24.131           | P             |
| 1   | 9  | 801 | 0Gap0  | Flatbed         | V             | 8.03275  | 7.72368  | 8.266317 | 7.994999  | 542.636   | 500            | 42.636           | P             |
| 1   | 9  | 801 | 0Gap64 | Flatbed         | V             | 8.04975  | 7.72368  | 8.260815 | 7.992248  | 537.134   | 500            | 37.134           | P             |
| 1   | 9  | 802 | 0      | Flatbed         | V             | 8.04975  | 7.72368  | 8.260815 | 7.992248  | 537.134   | 500            | 37.134           | P             |
| 1   | 9  | 803 | 0      | Flatbed         | V             | 8.04975  | 7.72368  | 8.260815 | 7.992248  | 537.134   | 500            | 37.134           | P             |
| 1   | 9  | 804 | 0Gap0  | Flatbed         | V             | 8.06675  | 7.72368  | 8.259315 | 7.991498  | 535.634   | 500            | 35.634           | P             |
| 1   | 9  | 804 | 0Gap64 | Flatbed         | V             | 8.04976  | 7.72368  | 8.261816 | 7.9927485 | 538.135   | 500            | 38.135           | P             |
| 1   | 9  | 805 | 0      | Flatbed         | V             | 8.04975  | 7.72368  | 8.261816 | 7.9927485 | 538.135   | 500            | 38.135           | P             |
| 1   | 9  | 806 | 0      | Flatbed         | V             | 8.04975  | 7.72368  | 8.268317 | 7.995999  | 544.636   | 500            | 44.636           | P             |
| 1   | 9  | 807 | 0Gap0  | Flatbed         | V             | 8.04975  | 7.72368  | 8.265316 | 7.9944985 | 541.635   | 500            | 41.635           | P             |
| 1   | 9  | 807 | 0Gap64 | Flatbed         | V             | 8.04925  | 7.72368  | 8.265817 | 7.994749  | 542.136   | 500            | 42.136           | P             |
| 1   | 9  | 808 | 0      | Flatbed         | V             | 8.06675  | 7.72368  | 8.265316 | 7.9944985 | 541.635   | 500            | 41.635           | P             |
| 1   | 9  | 809 | 0      | Flatbed         | V             | 8.06675  | 7.72368  | 8.259315 | 7.991498  | 535.634   | 500            | 35.634           | P             |
| 1   | 9  | 80A | 0Gap0  | Flatbed         | V             | 8.06625  | 7.72368  | 8.257314 | 7.9904975 | 533.633   | 500            | 33.633           | P             |
| 1   | 9  | 80A | 0Gap64 | Flatbed         | V             | 8.06675  | 7.72368  | 8.258315 | 7.990998  | 534.634   | 500            | 34.634           | P             |
| 1   | 9  | 80B | 0      | Flatbed         | V             | 8.06675  | 7.72368  | 8.262816 | 7.9932485 | 539.135   | 500            | 39.135           | P             |
| 1   | 9  | 80C | 0      | Flatbed         | V             | 8.04975  | 7.72368  | 8.266317 | 7.994999  | 542.636   | 500            | 42.636           | P             |

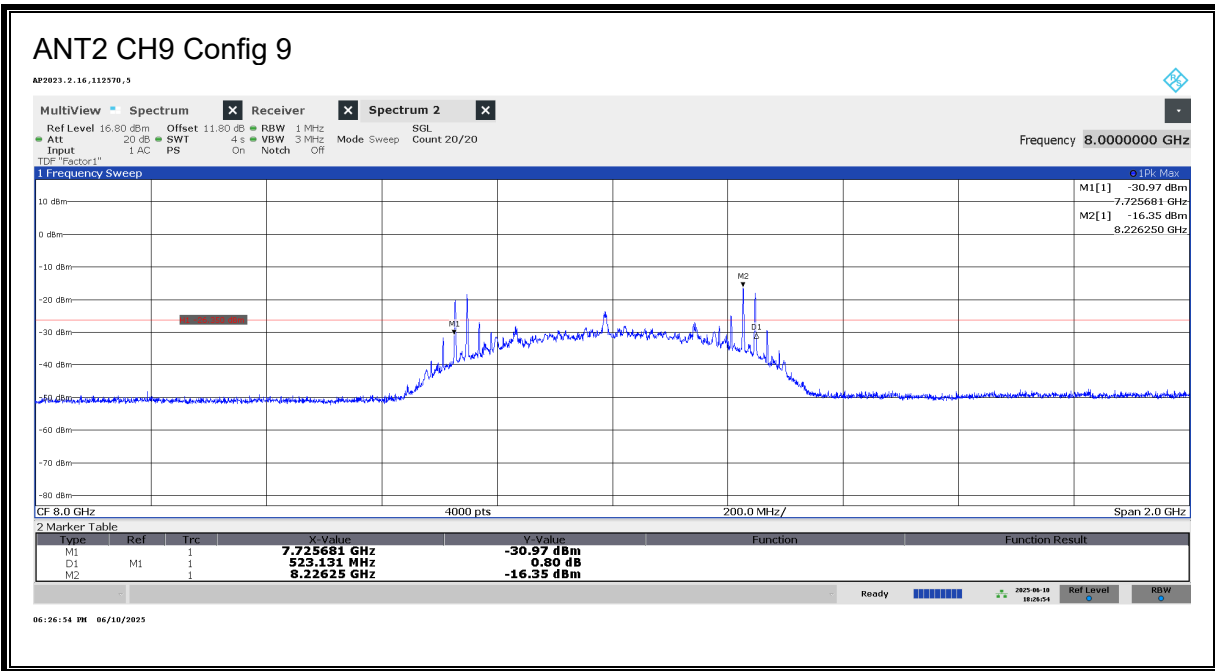
**ANT2, CH5**

| ANT | CH | CF  | PL     | EUT Orientation | Ant. Polarity | FM (GHz) | FL (GHz) | FH (GHz)  | FC (GHz)  | OBW (MHz) | Min. OBW (MHz) | OBW Margin (MHz) | OBW Pass/Fail |
|-----|----|-----|--------|-----------------|---------------|----------|----------|-----------|-----------|-----------|----------------|------------------|---------------|
| 2   | 5  | 0   | 25     | Portrait        | H             | 6.25025  | 6.22618  | 6.752314  | 6.489248  | 526.132   | 500            | 26.132           | P             |
| 2   | 5  | 1   | 45     | Portrait        | H             | 6.25025  | 6.22618  | 6.752314  | 6.489248  | 526.132   | 500            | 26.132           | P             |
| 2   | 5  | 6   | 125    | Portrait        | H             | 6.25025  | 6.22768  | 6.751313  | 6.4894975 | 523.631   | 500            | 23.631           | P             |
| 2   | 5  | 9   | 125    | Portrait        | H             | 6.25025  | 6.22818  | 6.750813  | 6.4894975 | 522.631   | 500            | 22.631           | P             |
| 2   | 5  | 10  | 25     | Portrait        | H             | 6.25075  | 6.22668  | 6.752313  | 6.4894975 | 525.631   | 500            | 25.631           | P             |
| 2   | 5  | 11  | 25     | Portrait        | H             | 6.25075  | 6.22618  | 6.752314  | 6.489248  | 526.132   | 500            | 26.132           | P             |
| 2   | 5  | 11  | 65     | Portrait        | H             | 6.25025  | 6.22618  | 6.752314  | 6.489248  | 526.132   | 500            | 26.132           | P             |
| 2   | 5  | 101 | 25     | Portrait        | H             | 6.25025  | 6.22668  | 6.752313  | 6.4894975 | 525.631   | 500            | 25.631           | P             |
| 2   | 5  | 101 | 65     | Portrait        | H             | 6.25075  | 6.22668  | 6.752313  | 6.4894975 | 525.631   | 500            | 25.631           | P             |
| 2   | 5  | 102 | 25     | Portrait        | H             | 6.25025  | 6.22668  | 6.752313  | 6.4894975 | 525.631   | 500            | 25.631           | P             |
| 2   | 5  | 102 | 65     | Portrait        | H             | 6.25025  | 6.22668  | 6.752313  | 6.4894975 | 525.631   | 500            | 25.631           | P             |
| 2   | 5  | 103 | 25     | Portrait        | H             | 6.25025  | 6.22668  | 6.752313  | 6.4894975 | 525.631   | 500            | 25.631           | P             |
| 2   | 5  | 103 | 125    | Portrait        | H             | 6.25025  | 6.22668  | 6.75231   | 6.489495  | 525.630   | 500            | 25.63            | P             |
| 2   | 5  | 202 | 625    | Portrait        | H             | 6.25025  | 6.22668  | 6.752313  | 6.4894975 | 525.631   | 500            | 25.631           | P             |
| 2   | 5  | 402 | 445    | Portrait        | H             | 6.25075  | 6.22618  | 6.752314  | 6.489248  | 526.132   | 500            | 26.132           | P             |
| 2   | 5  | 501 | 0      | Portrait        | H             | 6.25075  | 6.22668  | 6.752313  | 6.4894975 | 525.631   | 500            | 25.631           | P             |
| 2   | 5  | 503 | 0      | Portrait        | H             | 6.25025  | 6.22618  | 6.752314  | 6.489248  | 526.132   | 500            | 26.132           | P             |
| 2   | 5  | 601 | 0      | Portrait        | H             | 6.25075  | 6.22668  | 6.752313  | 6.4894975 | 525.631   | 500            | 25.631           | P             |
| 2   | 5  | 605 | 0      | Portrait        | H             | 6.25025  | 6.22668  | 6.752313  | 6.4894975 | 525.631   | 500            | 25.631           | P             |
| 2   | 5  | 607 | 0      | Portrait        | H             | 6.25075  | 6.22668  | 6.752814  | 6.489748  | 526.132   | 500            | 26.132           | P             |
| 2   | 5  | 701 | 0      | Portrait        | H             | 6.25070  | 6.22518  | 6.753313  | 6.489247  | 528.132   | 500            | 28.132           | P             |
| 2   | 5  | 702 | 0      | Portrait        | H             | 6.25075  | 6.22518  | 6.753813  | 6.489497  | 528.632   | 500            | 28.632           | P             |
| 2   | 5  | 703 | 0      | Portrait        | H             | 6.25075  | 6.22518  | 6.753813  | 6.489497  | 528.632   | 500            | 28.632           | P             |
| 2   | 5  | 704 | 0      | Portrait        | H             | 6.25025  | 6.20418  | 6.753813  | 6.4789945 | 549.637   | 500            | 49.637           | P             |
| 2   | 5  | 705 | 0      | Portrait        | H             | 6.25075  | 6.22368  | 6.753814  | 6.4887475 | 530.133   | 500            | 30.133           | P             |
| 2   | 5  | 706 | 0      | Portrait        | H             | 6.25075  | 6.20468  | 6.753813  | 6.4792445 | 549.137   | 500            | 49.137           | P             |
| 2   | 5  | 405 | 4093   | Portrait        | H             | 6.25075  | 6.02468  | 6.575814  | 6.300245  | 551.138   | 500            | 51.138           | P             |
| 2   | 5  | 407 | 4093   | Portrait        | H             | 6.25025  | 6.20268  | 6.752313  | 6.4774945 | 549.637   | 500            | 49.637           | P             |
| 2   | 5  | 409 | 4093   | Portrait        | H             | 6.25025  | 6.22618  | 6.75231   | 6.489245  | 526.130   | 500            | 26.13            | P             |
| 2   | 5  | 801 | 0Gap0  | Portrait        | H             | 6.25075  | 6.19367  | 6.76131   | 6.47749   | 567.640   | 500            | 67.64            | P             |
| 2   | 5  | 801 | 0Gap64 | Portrait        | H             | 6.25075  | 6.20218  | 6.761316  | 6.481746  | 559.140   | 500            | 59.14            | P             |
| 2   | 5  | 802 | 0      | Portrait        | H             | 6.25075  | 6.20218  | 6.761316  | 6.481746  | 559.140   | 500            | 59.14            | P             |
| 2   | 5  | 803 | 0      | Portrait        | H             | 6.25075  | 6.19818  | 6.761316  | 6.4797455 | 563.141   | 500            | 63.141           | P             |
| 2   | 5  | 804 | 0Gap0  | Portrait        | H             | 6.25075  | 6.20318  | 6.761316  | 6.482246  | 558.140   | 500            | 58.14            | P             |
| 2   | 5  | 804 | 0Gap64 | Portrait        | H             | 6.25075  | 6.20218  | 6.761316  | 6.481746  | 559.140   | 500            | 59.14            | P             |
| 2   | 5  | 805 | 0      | Portrait        | H             | 6.25075  | 6.02022  | 6.5793576 | 6.2997876 | 559.140   | 500            | 59.14            | P             |
| 2   | 5  | 806 | 0      | Portrait        | H             | 6.25075  | 6.19818  | 6.761316  | 6.4797455 | 563.141   | 500            | 63.141           | P             |
| 2   | 5  | 807 | 0Gap0  | Portrait        | H             | 6.25075  | 6.19417  | 6.760816  | 6.477495  | 566.642   | 500            | 66.642           | P             |
| 2   | 5  | 807 | 0Gap64 | Portrait        | H             | 6.25075  | 6.20168  | 6.758314  | 6.4799945 | 556.639   | 500            | 56.639           | P             |
| 2   | 5  | 808 | 0      | Portrait        | H             | 6.25075  | 6.20868  | 6.757314  | 6.4829955 | 548.637   | 500            | 48.637           | P             |
| 2   | 5  | 809 | 0      | Portrait        | H             | 6.25075  | 6.20968  | 6.753313  | 6.481495  | 543.636   | 500            | 43.636           | P             |
| 2   | 5  | 80A | 0Gap0  | Portrait        | H             | 6.25075  | 6.20718  | 6.759315  | 6.483246  | 552.138   | 500            | 52.138           | P             |
| 2   | 5  | 80A | 0Gap64 | Portrait        | H             | 6.25075  | 6.21018  | 6.759815  | 6.4849965 | 549.637   | 500            | 49.637           | P             |
| 2   | 5  | 80B | 0      | Portrait        | H             | 6.25075  | 6.21018  | 6.757815  | 6.4839965 | 547.637   | 500            | 47.637           | P             |
| 2   | 5  | 80C | 0      | Portrait        | H             | 6.25075  | 6.20868  | 6.759815  | 6.484246  | 551.138   | 500            | 51.138           | P             |

**ANT2, CH9**

| ANT | CH | CF  | PL     | EUT Orientation | Ant. Polarity | FM (GHz) | FL (GHz) | FH (GHz) | FC (GHz)  | OBW (MHz) | Min. OBW (MHz) | OBW Margin (MHz) | OBW Pass/Fail |
|-----|----|-----|--------|-----------------|---------------|----------|----------|----------|-----------|-----------|----------------|------------------|---------------|
| 2   | 9  | 0   | 25     | Landscape       | H             | 8.22625  | 7.72413  | 8.250309 | 7.9872195 | 526.179   | 500            | 26.179           | P             |
| 2   | 9  | 1   | 45     | Landscape       | H             | 8.22675  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 2   | 9  | 6   | 125    | Landscape       | H             | 8.22625  | 7.72518  | 8.249312 | 7.9872465 | 524.131   | 500            | 24.131           | P             |
| 2   | 9  | 9   | 125    | Landscape       | H             | 8.22625  | 7.72560  | 8.248732 | 7.9871665 | 523.131   | 500            | 23.131           | P             |
| 2   | 9  | 10  | 25     | Landscape       | H             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 2   | 9  | 11  | 25     | Landscape       | H             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 2   | 9  | 11  | 65     | Landscape       | H             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 2   | 9  | 101 | 25     | Landscape       | H             | 8.22625  | 7.72468  | 8.250312 | 7.9874965 | 525.631   | 500            | 25.631           | P             |
| 2   | 9  | 101 | 65     | Landscape       | H             | 8.22675  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 2   | 9  | 102 | 25     | Landscape       | H             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 2   | 9  | 102 | 65     | Landscape       | H             | 8.22675  | 7.72468  | 8.250312 | 7.9874965 | 525.631   | 500            | 25.631           | P             |
| 2   | 9  | 103 | 25     | Landscape       | H             | 8.22625  | 7.72418  | 8.25031  | 7.987245  | 526.130   | 500            | 26.13            | P             |
| 2   | 9  | 103 | 125    | Landscape       | H             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 2   | 9  | 202 | 625    | Landscape       | H             | 8.22625  | 7.72418  | 8.250311 | 7.9872455 | 526.131   | 500            | 26.131           | P             |
| 2   | 9  | 402 | 445    | Landscape       | H             | 8.22625  | 7.72468  | 8.250312 | 7.9874965 | 525.631   | 500            | 25.631           | P             |
| 2   | 9  | 501 | 0      | Landscape       | H             | 8.22625  | 7.72418  | 8.250312 | 7.987246  | 526.132   | 500            | 26.132           | P             |
| 2   | 9  | 503 | 0      | Landscape       | H             | 8.22675  | 7.72468  | 8.250312 | 7.9874965 | 525.631   | 500            | 25.631           | P             |
| 2   | 9  | 601 | 0      | Landscape       | H             | 8.22678  | 7.72468  | 8.250813 | 7.987747  | 526.132   | 500            | 26.132           | P             |
| 2   | 9  | 605 | 0      | Landscape       | H             | 8.22675  | 7.72468  | 8.250312 | 7.9874965 | 525.631   | 500            | 25.631           | P             |
| 2   | 9  | 607 | 0      | Landscape       | H             | 8.22625  | 7.72418  | 8.250313 | 7.987247  | 526.132   | 500            | 26.132           | P             |
| 2   | 9  | 701 | 0      | Landscape       | H             | 8.22575  | 7.72368  | 8.251811 | 7.987746  | 528.130   | 500            | 28.13            | P             |
| 2   | 9  | 702 | 0      | Landscape       | H             | 8.22575  | 7.72368  | 8.251813 | 7.987747  | 528.132   | 500            | 28.132           | P             |
| 2   | 9  | 703 | 0      | Landscape       | H             | 8.22625  | 7.72368  | 8.251813 | 7.987747  | 528.132   | 500            | 28.132           | P             |
| 2   | 9  | 704 | 0      | Landscape       | H             | 8.22625  | 7.72368  | 8.265821 | 7.994751  | 542.140   | 500            | 42.14            | P             |
| 2   | 9  | 705 | 0      | Landscape       | H             | 8.22625  | 7.72368  | 8.261315 | 7.992498  | 537.634   | 500            | 37.634           | P             |
| 2   | 9  | 706 | 0      | Landscape       | H             | 8.22575  | 7.72368  | 8.271818 | 7.9977495 | 548.137   | 500            | 48.137           | P             |
| 2   | 9  | 405 | 4093   | Landscape       | H             | 8.22625  | 7.72118  | 8.264316 | 7.992748  | 543.136   | 500            | 43.136           | P             |
| 2   | 9  | 407 | 4093   | Landscape       | H             | 8.01850  | 7.72450  | 8.25     | 7.98725   | 525.500   | 500            | 25.5             | P             |
| 2   | 9  | 409 | 4093   | Landscape       | H             | 7.98675  | 7.72418  | 8.249811 | 7.9869955 | 525.631   | 500            | 25.631           | P             |
| 2   | 9  | 801 | 0Gap0  | Landscape       | H             | 8.04975  | 7.72368  | 8.259315 | 7.991498  | 535.634   | 500            | 35.634           | P             |
| 2   | 9  | 801 | 0Gap64 | Landscape       | H             | 8.04975  | 7.72318  | 8.260814 | 7.991997  | 537.634   | 500            | 37.634           | P             |
| 2   | 9  | 802 | 0      | Landscape       | H             | 8.04975  | 7.72368  | 8.260315 | 7.991998  | 536.634   | 500            | 36.634           | P             |
| 2   | 9  | 803 | 0      | Landscape       | H             | 8.04975  | 7.72368  | 8.260315 | 7.991998  | 536.634   | 500            | 36.634           | P             |
| 2   | 9  | 804 | 0Gap0  | Landscape       | H             | 7.98725  | 7.72368  | 8.259315 | 7.991498  | 535.634   | 500            | 35.634           | P             |
| 2   | 9  | 804 | 0Gap64 | Landscape       | H             | 8.04975  | 7.72368  | 8.260815 | 7.992248  | 537.134   | 500            | 37.134           | P             |
| 2   | 9  | 805 | 0      | Landscape       | H             | 8.04925  | 7.72318  | 8.260314 | 7.991747  | 537.134   | 500            | 37.134           | P             |
| 2   | 9  | 806 | 0      | Landscape       | H             | 8.04975  | 7.72368  | 8.260315 | 7.991998  | 536.634   | 500            | 36.634           | P             |
| 2   | 9  | 807 | 0Gap0  | Landscape       | H             | 8.03275  | 7.72368  | 8.258815 | 7.991248  | 535.134   | 500            | 35.134           | P             |
| 2   | 9  | 807 | 0Gap64 | Landscape       | H             | 8.04975  | 7.72368  | 8.266817 | 7.995249  | 543.136   | 500            | 43.136           | P             |
| 2   | 9  | 808 | 0      | Landscape       | H             | 8.03275  | 7.72368  | 8.258815 | 7.991248  | 535.134   | 500            | 35.134           | P             |
| 2   | 9  | 809 | 0      | Landscape       | H             | 8.03275  | 7.72368  | 8.259315 | 7.991498  | 535.634   | 500            | 35.634           | P             |
| 2   | 9  | 80A | 0Gap0  | Landscape       | H             | 8.03275  | 7.72368  | 8.260315 | 7.991998  | 536.634   | 500            | 36.634           | P             |
| 2   | 9  | 80A | 0Gap64 | Landscape       | H             | 8.03275  | 7.72368  | 8.259815 | 7.991748  | 536.134   | 500            | 36.134           | P             |
| 2   | 9  | 80B | 0      | Landscape       | H             | 7.98725  | 7.72368  | 8.264816 | 7.9942485 | 541.135   | 500            | 41.135           | P             |
| 2   | 9  | 80C | 0      | Landscape       | H             | 8.03275  | 7.72368  | 8.265316 | 7.9944985 | 541.635   | 500            | 41.635           | P             |

**OPERATING BANDWIDTH**



## 9.3 PEAK POWER AND MAXIMUM AVERAGE EMISSIONS

### LIMITS

#### FCC

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 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 in MHz | EIRP in dBm |
|------------------|-------------|
| 3100 - 10600     | -41.3       |

#### RSS-220

Annex, Section 4 (c) Peak measurements shall be made in addition to average measurements. Transmissions shall not exceed 0 dBm e.i.r.p. in any 50 MHz bandwidth when the average limit is -41.3 dBm/MHz.

Section 5.3.1 (d) Radiated emissions above 960 MHz from a device shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz.

| Frequency       | E.I.R.P. in a Resolution Bandwidth of 1 MHz |
|-----------------|---------------------------------------------|
| 4.75 – 10.6 GHz | -41.3                                       |

### TEST PROCEDURE

ANSI C63.10 Clause 10.3

RSS-220 Annex

Peak EIPR power is measured using RBW of 50 MHz.

*\*Peak measurements were validated to have same readings as a wider bandwidth receiver, regardless of YIG Filter Bandwidth Notice.*

The radiated emissions of 5 - 9 GHz frequency band are performed at 3-meter test distance.

Tabulated data provides the test results of all available test configurations. Plots for ANT1, CONFIG 9, Payload 125 on CH9 and ANT2, CONFIG 9, Payload 125 on CH5 and CH9 peak and maximum average power measurements are presented and same measurement settings apply to the rest of test configurations.

**RESULTS**

Employee IDs: 26051, 32316, 105892, 112243

Location: Chamber 05-RDE-B

Test Date: 5/30/2025 to 6/12/2025

**ANT1, CH9**

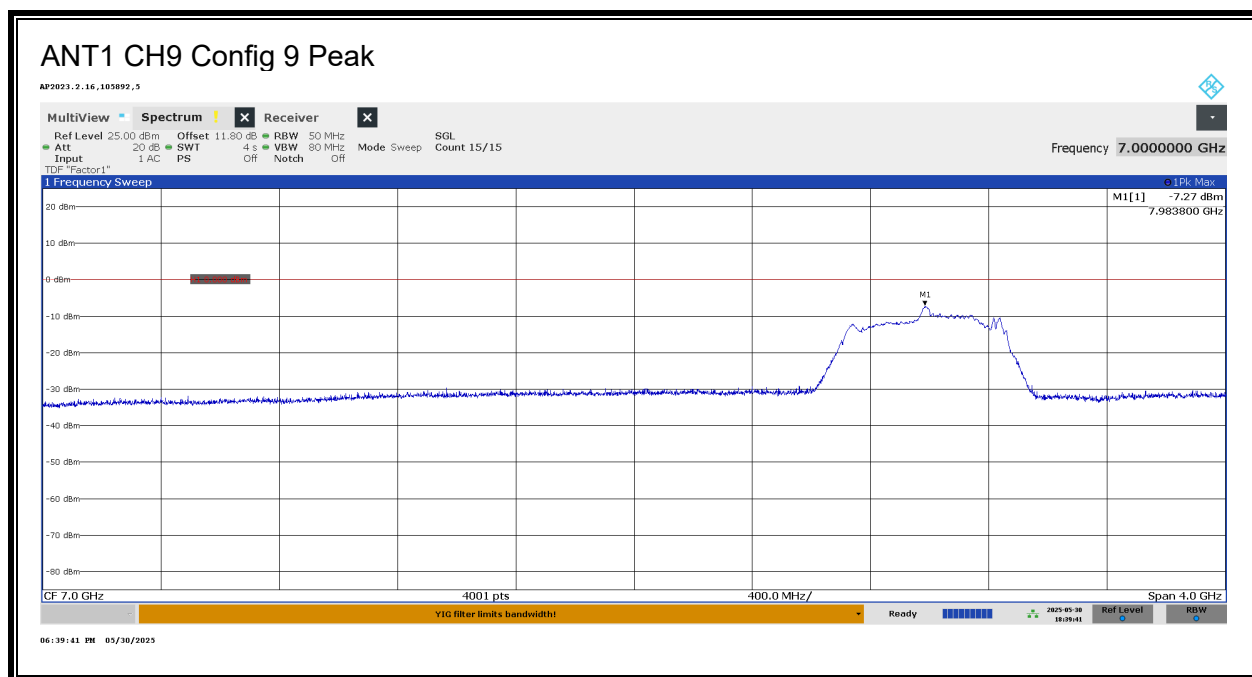
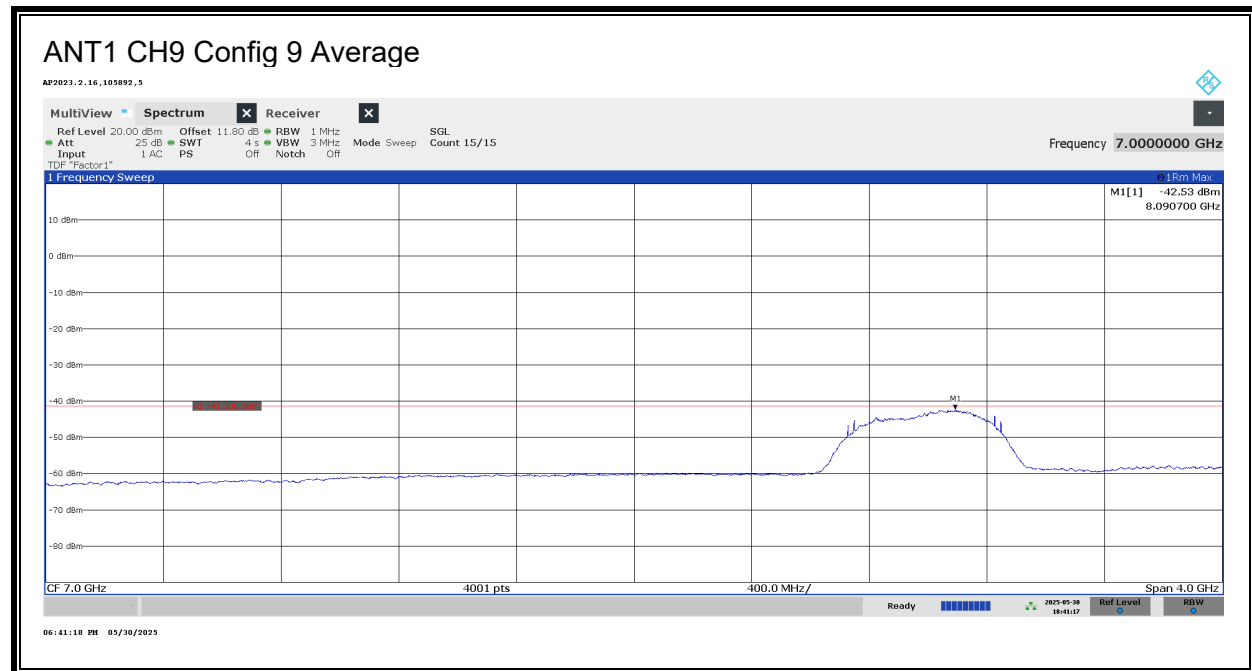
| ANT | CH | CF  | PL     | EUT Orientation | Ant. Polarity | Peak EIRP Power |        |          |             | Average EIRP Power |               |           |             |
|-----|----|-----|--------|-----------------|---------------|-----------------|--------|----------|-------------|--------------------|---------------|-----------|-------------|
|     |    |     |        |                 |               | FM (GHz)        | Adj Pk | Pk Limit | Margin (dB) | FM (GHz)           | Adj Av        | Avg Limit | Margin (dB) |
| 1   | 9  | 0   | 25     | Flatbed         | V             | 8.2167          | -2.51  | 0        | -2.51       | 8.1187             | -42.40        | -41.3     | -1.10       |
| 1   | 9  | 1   | 45     | Flatbed         | V             | 7.9858          | -1.67  | 0        | -1.67       | 8.1277             | -42.46        | -41.3     | -1.16       |
| 1   | 9  | 6   | 125    | Flatbed         | V             | 7.9868          | -7.46  | 0        | -7.46       | 8.1037             | -42.81        | -41.3     | -1.51       |
| 1   | 9  | 9   | 125    | Flatbed         | V             | 7.9838          | -7.27  | 0        | -7.27       | 8.0907             | -42.53        | -41.3     | -1.23       |
| 1   | 9  | 10  | 25     | Flatbed         | V             | 7.9978          | -2.51  | 0        | -2.51       | 8.0657             | -42.50        | -41.3     | -1.20       |
| 1   | 9  | 11  | 25     | Flatbed         | V             | 7.9878          | -1.40  | 0        | -1.40       | 8.0887             | -42.99        | -41.3     | -1.69       |
| 1   | 9  | 11  | 65     | Flatbed         | V             | 7.9868          | -2.45  | 0        | -2.45       | 8.0807             | -42.48        | -41.3     | -1.18       |
| 1   | 9  | 101 | 25     | Flatbed         | V             | 7.9978          | -1.18  | 0        | -1.18       | 8.0807             | -43.00        | -41.3     | -1.70       |
| 1   | 9  | 101 | 65     | Flatbed         | V             | 7.9858          | -2.27  | 0        | -2.27       | 8.0767             | -42.59        | -41.3     | -1.29       |
| 1   | 9  | 102 | 25     | Flatbed         | V             | 7.9978          | -1.15  | 0        | -1.15       | 8.0767             | -42.88        | -41.3     | -1.58       |
| 1   | 9  | 102 | 65     | Flatbed         | V             | 7.9868          | -2.49  | 0        | -2.49       | 8.0807             | -42.48        | -41.3     | -1.18       |
| 1   | 9  | 103 | 25     | Flatbed         | V             | 7.9878          | -2.47  | 0        | -2.47       | 8.0647             | -42.57        | -41.3     | -1.27       |
| 1   | 9  | 103 | 125    | Flatbed         | V             | 7.9838          | -4.74  | 0        | -4.74       | 8.0807             | -42.53        | -41.3     | -1.23       |
| 1   | 9  | 202 | 625    | Flatbed         | V             | 8.2367          | -13.06 | 0        | -13.06      | 8.0357             | -42.39        | -41.3     | -1.09       |
| 1   | 9  | 402 | 445    | Flatbed         | V             | 8.2367          | -11.41 | 0        | -11.41      | 8.0697             | -42.49        | -41.3     | -1.19       |
| 1   | 9  | 501 | 0      | Flatbed         | V             | 8.2357          | -1.27  | 0        | -1.27       | 8.0877             | -42.84        | -41.3     | -1.54       |
| 1   | 9  | 503 | 0      | Flatbed         | V             | 8.2357          | -1.31  | 0        | -1.31       | 8.0707             | -42.94        | -41.3     | -1.64       |
| 1   | 9  | 601 | 0      | Flatbed         | V             | 8.2157          | -3.02  | 0        | -3.02       | 8.0727             | -42.48        | -41.3     | -1.18       |
| 1   | 9  | 605 | 0      | Flatbed         | V             | 8.2167          | -1.14  | 0        | -1.14       | 8.0717             | -43.05        | -41.3     | -1.75       |
| 1   | 9  | 607 | 0      | Flatbed         | V             | 8.2157          | -1.18  | 0        | -1.18       | 8.0717             | -43.07        | -41.3     | -1.77       |
| 1   | 9  | 701 | 0      | Flatbed         | V             | 8.2157          | -2.83  | 0        | -2.83       | 8.0497             | -42.64        | -41.3     | -1.34       |
| 1   | 9  | 702 | 0      | Flatbed         | V             | 8.2167          | -1.40  | 0        | -1.40       | 8.0707             | -42.84        | -41.3     | -1.54       |
| 1   | 9  | 703 | 0      | Flatbed         | V             | 8.2167          | -1.37  | 0        | -1.37       | 8.0687             | -43.01        | -41.3     | -1.71       |
| 1   | 9  | 704 | 0      | Flatbed         | V             | 8.2157          | -7.21  | 0        | -7.21       | 8.0837             | -42.60        | -41.3     | -1.30       |
| 1   | 9  | 705 | 0      | Flatbed         | V             | 8.0487          | -3.25  | 0        | -3.25       | 8.0717             | -42.77        | -41.3     | -1.47       |
| 1   | 9  | 706 | 0      | Flatbed         | V             | 8.1137          | -4.44  | 0        | -4.44       | 8.0657             | -42.50        | -41.3     | -1.20       |
| 1   | 9  | 405 | 4093   | Flatbed         | V             | 8.0487          | -13.73 | 0        | -13.73      | 8.0717             | -42.43        | -41.3     | -1.13       |
| 1   | 9  | 407 | 4093   | Flatbed         | V             | 8.2167          | -13.58 | 0        | -13.58      | 8.0697             | -42.80        | -41.3     | -1.50       |
| 1   | 9  | 409 | 4093   | Flatbed         | V             | 8.2157          | -13.40 | 0        | -13.40      | 8.0647             | -42.47        | -41.3     | -1.17       |
| 1   | 9  | 801 | 0Gap0  | Flatbed         | V             | 8.2157          | -3.56  | 0        | -3.56       | 8.0697             | <b>-42.35</b> | -41.3     | -1.05       |
| 1   | 9  | 801 | 0Gap64 | Flatbed         | V             | 8.2157          | -3.57  | 0        | -3.57       | 8.0747             | -42.44        | -41.3     | -1.14       |
| 1   | 9  | 802 | 0      | Flatbed         | V             | 8.2157          | -3.84  | 0        | -3.84       | 8.0907             | -42.50        | -41.3     | -1.20       |
| 1   | 9  | 803 | 0      | Flatbed         | V             | 8.2167          | -3.08  | 0        | -3.08       | 8.0747             | -42.77        | -41.3     | -1.47       |
| 1   | 9  | 804 | 0Gap0  | Flatbed         | V             | 8.2167          | -6.96  | 0        | -6.96       | 8.0697             | -42.39        | -41.3     | -1.09       |
| 1   | 9  | 804 | 0Gap64 | Flatbed         | V             | 8.2157          | -6.97  | 0        | -6.97       | 8.0907             | -42.45        | -41.3     | -1.15       |
| 1   | 9  | 805 | 0      | Flatbed         | V             | 8.2157          | -6.94  | 0        | -6.94       | 8.0907             | -42.41        | -41.3     | -1.11       |
| 1   | 9  | 806 | 0      | Flatbed         | V             | 8.2157          | -5.83  | 0        | -5.83       | 8.0907             | -42.60        | -41.3     | -1.30       |
| 1   | 9  | 807 | 0Gap0  | Flatbed         | V             | 8.2157          | -3.98  | 0        | -3.98       | 8.0697             | -42.50        | -41.3     | -1.20       |
| 1   | 9  | 807 | 0Gap64 | Flatbed         | V             | 8.2157          | -3.67  | 0        | -3.67       | 8.1017             | -42.68        | -41.3     | -1.38       |
| 1   | 9  | 808 | 0      | Flatbed         | V             | 8.2157          | -3.66  | 0        | -3.66       | 8.1017             | -42.73        | -41.3     | -1.43       |
| 1   | 9  | 809 | 0      | Flatbed         | V             | 8.2167          | -3.45  | 0        | -3.45       | 8.0827             | -42.38        | -41.3     | -1.08       |
| 1   | 9  | 80A | 0Gap0  | Flatbed         | V             | 8.2157          | -7.16  | 0        | -7.16       | 8.0697             | -42.53        | -41.3     | -1.23       |
| 1   | 9  | 80A | 0Gap64 | Flatbed         | V             | 8.2157          | -5.98  | 0        | -5.98       | 8.0747             | -42.70        | -41.3     | -1.40       |
| 1   | 9  | 80B | 0      | Flatbed         | V             | 8.2157          | -5.92  | 0        | -5.92       | 8.0747             | -42.54        | -41.3     | -1.24       |
| 1   | 9  | 80C | 0      | Flatbed         | V             | 8.2157          | -5.60  | 0        | -5.60       | 8.0757             | -42.39        | -41.3     | -1.09       |

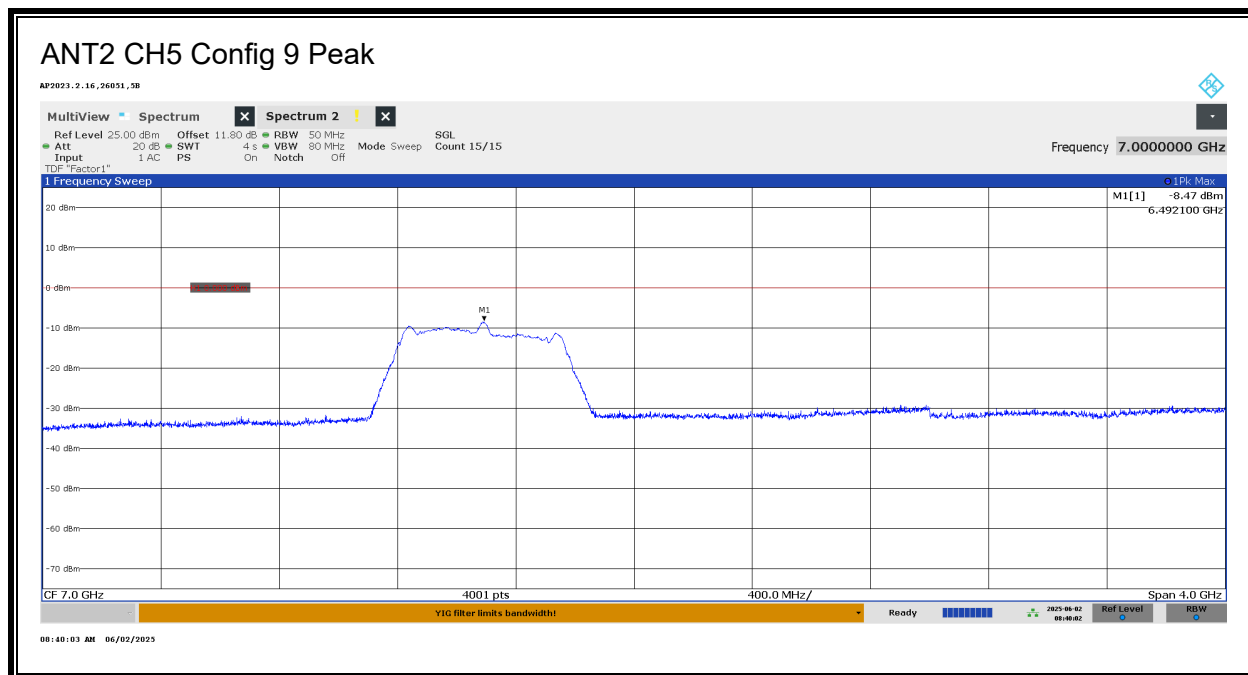
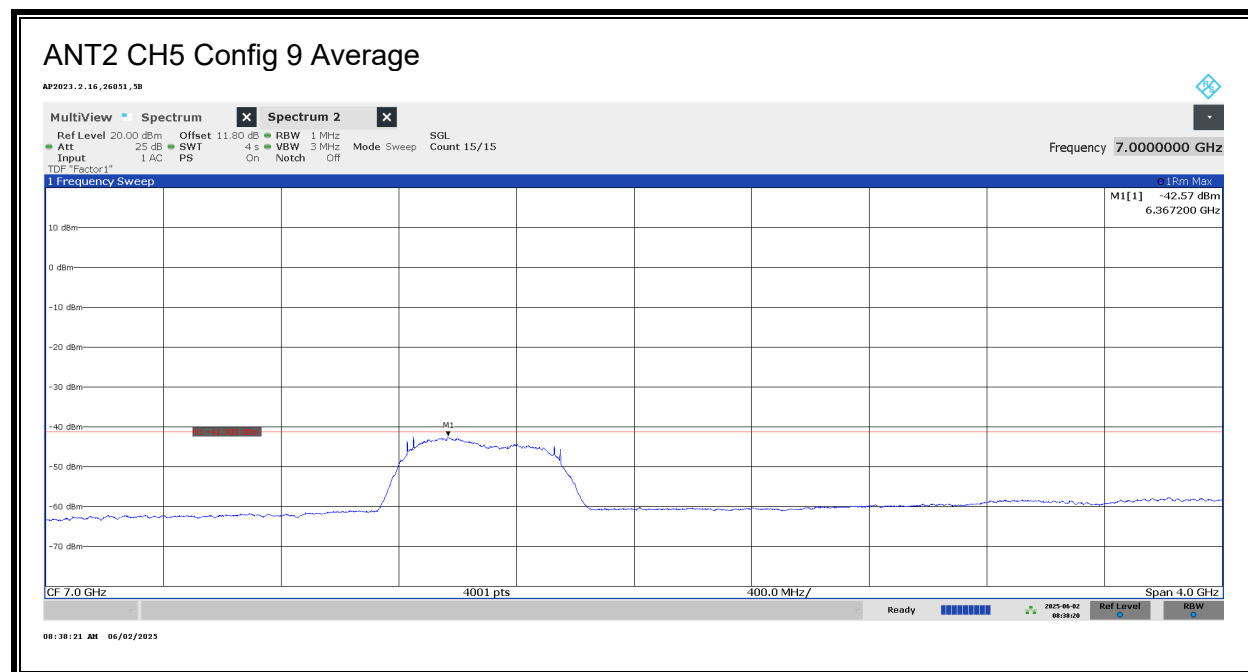
**ANT2, CH5**

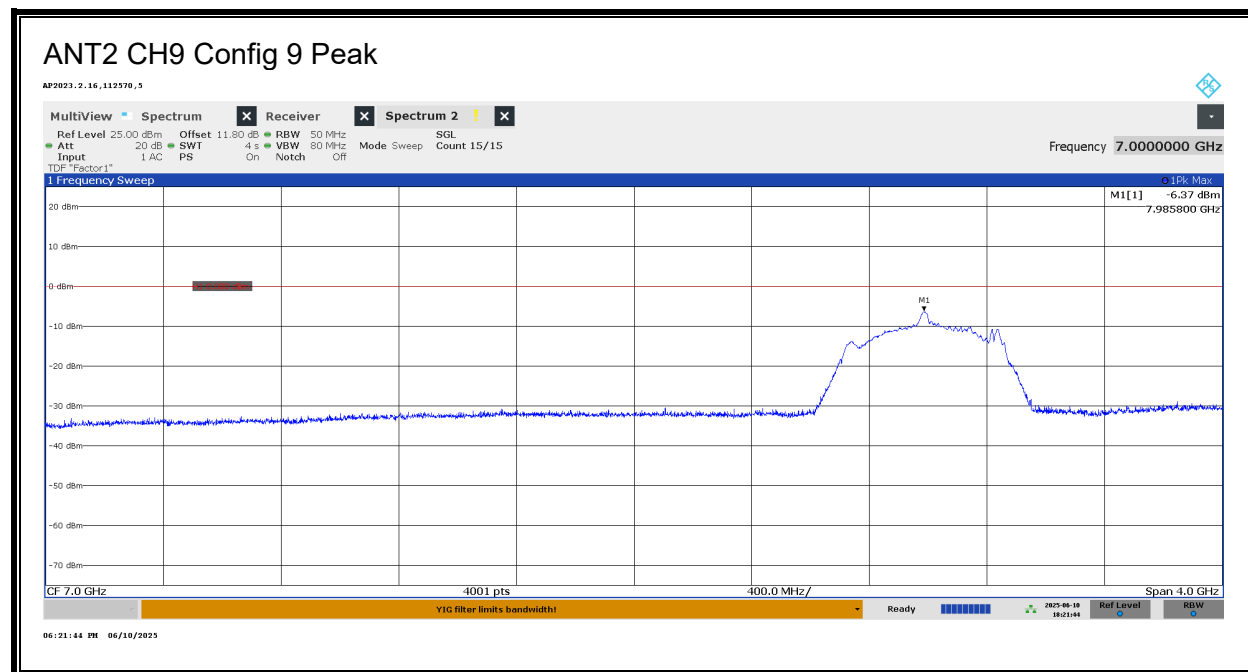
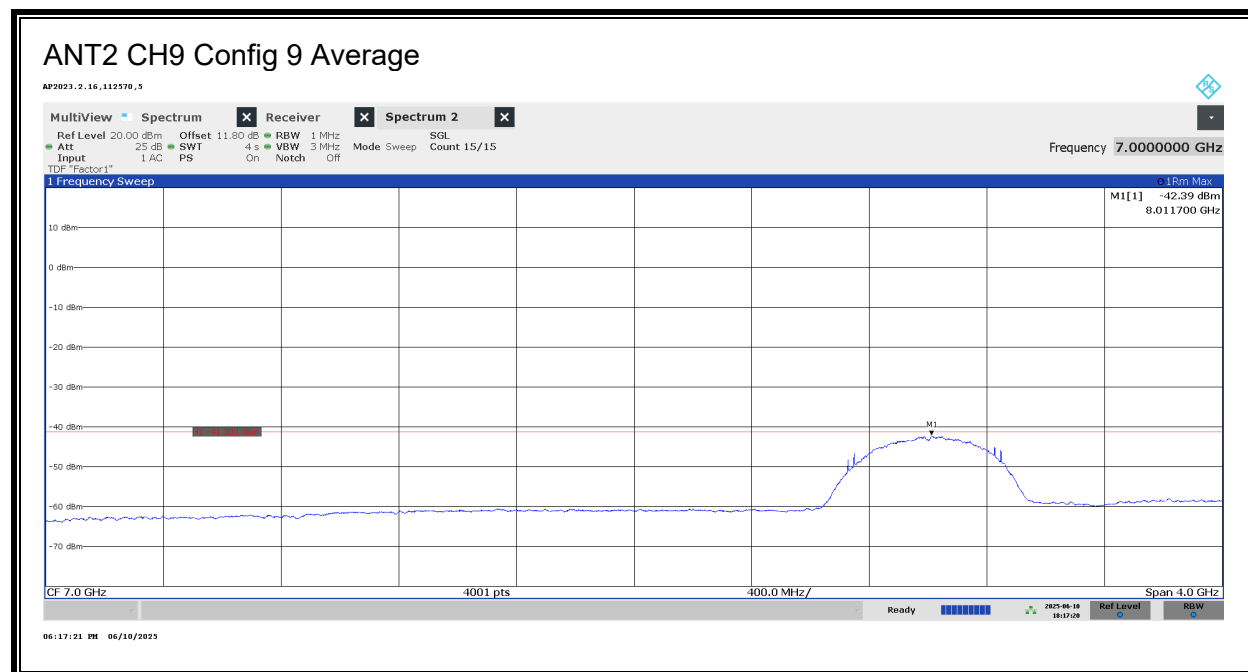
| ANT | CH | CF  | PL     | EUT<br>Orientation | Ant.<br>Polarity | Peak EIRP Power |        |             |                | Average EIRP Power |               |              |                |
|-----|----|-----|--------|--------------------|------------------|-----------------|--------|-------------|----------------|--------------------|---------------|--------------|----------------|
|     |    |     |        |                    |                  | FM<br>(GHz)     | Adj Pk | Pk<br>Limit | Margin<br>(dB) | FM<br>(GHz)        | Adj Av        | Avg<br>Limit | Margin<br>(dB) |
| 2   | 5  | 0   | 25     | Portrait           | H                | 6.2392          | -2.37  | 0           | -2.37          | 6.3492             | <b>-42.30</b> | -41.3        | -1.00          |
| 2   | 5  | 1   | 45     | Portrait           | H                | 6.2382          | -2.02  | 0           | -2.02          | 6.3492             | -42.51        | -41.3        | -1.21          |
| 2   | 5  | 6   | 125    | Portrait           | H                | 6.4911          | -7.27  | 0           | -7.27          | 6.3692             | -42.40        | -41.3        | -1.10          |
| 2   | 5  | 9   | 125    | Portrait           | H                | 6.4921          | -8.47  | 0           | -8.47          | 6.3672             | -42.57        | -41.3        | -1.27          |
| 2   | 5  | 10  | 25     | Portrait           | H                | 6.4891          | -3.13  | 0           | -3.13          | 6.3492             | -42.33        | -41.3        | -1.03          |
| 2   | 5  | 11  | 25     | Portrait           | H                | 6.2382          | -1.54  | 0           | -1.54          | 6.4001             | -42.44        | -41.3        | -1.14          |
| 2   | 5  | 11  | 65     | Portrait           | H                | 6.2392          | -3.31  | 0           | -3.31          | 6.3962             | -42.43        | -41.3        | -1.13          |
| 2   | 5  | 101 | 25     | Portrait           | H                | 6.2412          | -1.60  | 0           | -1.60          | 6.3962             | -42.61        | -41.3        | -1.31          |
| 2   | 5  | 101 | 65     | Portrait           | H                | 6.2352          | -3.39  | 0           | -3.39          | 6.3962             | -42.59        | -41.3        | -1.29          |
| 2   | 5  | 102 | 25     | Portrait           | H                | 6.2392          | -1.61  | 0           | -1.61          | 6.3492             | -42.48        | -41.3        | -1.18          |
| 2   | 5  | 102 | 65     | Portrait           | H                | 6.3432          | -3.37  | 0           | -3.37          | 6.3962             | -42.58        | -41.3        | -1.28          |
| 2   | 5  | 103 | 25     | Portrait           | H                | 6.2372          | -3.16  | 0           | -3.16          | 6.3492             | -42.52        | -41.3        | -1.22          |
| 2   | 5  | 103 | 125    | Portrait           | H                | 6.2442          | -5.75  | 0           | -5.75          | 6.3962             | -42.58        | -41.3        | -1.28          |
| 2   | 5  | 202 | 625    | Portrait           | H                | 6.2402          | -12.53 | 0           | -12.53         | 6.3492             | -42.49        | -41.3        | -1.19          |
| 2   | 5  | 402 | 445    | Portrait           | H                | 6.2422          | -11.10 | 0           | -11.10         | 6.3462             | -42.48        | -41.3        | -1.18          |
| 2   | 5  | 501 | 0      | Portrait           | H                | 6.2402          | -1.15  | 0           | -1.15          | 6.3562             | -42.96        | -41.3        | -1.66          |
| 2   | 5  | 503 | 0      | Portrait           | H                | 6.2382          | -1.28  | 0           | -1.28          | 6.3442             | -42.75        | -41.3        | -1.45          |
| 2   | 5  | 601 | 0      | Portrait           | H                | 6.2382          | -2.37  | 0           | -2.37          | 6.3472             | -42.31        | -41.3        | -1.01          |
| 2   | 5  | 605 | 0      | Portrait           | H                | 6.2382          | -1.36  | 0           | -1.36          | 6.3342             | -43.69        | -41.3        | -2.39          |
| 2   | 5  | 607 | 0      | Portrait           | H                | 6.2382          | -1.40  | 0           | -1.40          | 6.3332             | -43.53        | -41.3        | -2.23          |
| 2   | 5  | 701 | 0      | Portrait           | H                | 6.2392          | -2.38  | 0           | -2.38          | 6.3402             | -42.41        | -41.3        | -1.11          |
| 2   | 5  | 702 | 0      | Portrait           | H                | 6.2412          | -1.16  | 0           | -1.16          | 6.3592             | -42.55        | -41.3        | -1.25          |
| 2   | 5  | 703 | 0      | Portrait           | H                | 6.2402          | -1.38  | 0           | -1.38          | 6.3222             | -43.14        | -41.3        | -1.84          |
| 2   | 5  | 704 | 0      | Portrait           | H                | 6.2402          | -7.54  | 0           | -7.54          | 6.3362             | -42.41        | -41.3        | -1.11          |
| 2   | 5  | 705 | 0      | Portrait           | H                | 6.3632          | -3.56  | 0           | -3.56          | 6.3412             | -42.44        | -41.3        | -1.14          |
| 2   | 5  | 706 | 0      | Portrait           | H                | 6.3642          | -5.38  | 0           | -5.38          | 6.3432             | -42.70        | -41.3        | -1.40          |
| 2   | 5  | 405 | 4093   | Portrait           | H                | 6.2392          | -14.45 | 0           | -14.45         | 6.3402             | -42.57        | -41.3        | -1.27          |
| 2   | 5  | 407 | 4093   | Portrait           | H                | 6.2392          | -13.46 | 0           | -13.46         | 6.3432             | -42.44        | -41.3        | -1.14          |
| 2   | 5  | 409 | 4093   | Portrait           | H                | 6.2402          | -14.46 | 0           | -14.46         | 6.3582             | -42.53        | -41.3        | -1.23          |
| 2   | 5  | 801 | 0Gap0  | Portrait           | H                | 6.2412          | -4.12  | 0           | -4.12          | 6.3652             | -42.77        | -41.3        | -1.47          |
| 2   | 5  | 801 | 0Gap64 | Portrait           | H                | 6.2382          | -3.91  | 0           | -3.91          | 6.3432             | -42.45        | -41.3        | -1.15          |
| 2   | 5  | 802 | 0      | Portrait           | H                | 6.2412          | -3.90  | 0           | -3.90          | 6.3432             | -42.48        | -41.3        | -1.18          |
| 2   | 5  | 803 | 0      | Portrait           | H                | 6.2392          | -3.15  | 0           | -3.15          | 6.3432             | -42.45        | -41.3        | -1.15          |
| 2   | 5  | 804 | 0Gap0  | Portrait           | H                | 6.2422          | -6.89  | 0           | -6.89          | 6.3652             | -42.55        | -41.3        | -1.25          |
| 2   | 5  | 804 | 0Gap64 | Portrait           | H                | 6.2412          | -6.61  | 0           | -6.61          | 6.3432             | -42.48        | -41.3        | -1.18          |
| 2   | 5  | 805 | 0      | Portrait           | H                | 6.2402          | -6.60  | 0           | -6.60          | 6.3432             | -42.45        | -41.3        | -1.15          |
| 2   | 5  | 806 | 0      | Portrait           | H                | 6.2382          | -5.61  | 0           | -5.61          | 6.3432             | -42.34        | -41.3        | -1.04          |
| 2   | 5  | 807 | 0Gap0  | Portrait           | H                | 6.2392          | -4.14  | 0           | -4.14          | 6.3652             | -42.75        | -41.3        | -1.45          |
| 2   | 5  | 807 | 0Gap64 | Portrait           | H                | 6.2402          | -3.44  | 0           | -3.44          | 6.3542             | -42.58        | -41.3        | -1.28          |
| 2   | 5  | 808 | 0      | Portrait           | H                | 6.2382          | -2.11  | 0           | -2.11          | 6.3482             | -42.75        | -41.3        | -1.45          |
| 2   | 5  | 809 | 0      | Portrait           | H                | 6.2372          | -2.35  | 0           | -2.35          | 6.3552             | -42.36        | -41.3        | -1.06          |
| 2   | 5  | 80A | 0Gap0  | Portrait           | H                | 6.2412          | -6.44  | 0           | -6.44          | 6.3652             | -42.36        | -41.3        | -1.06          |
| 2   | 5  | 80A | 0Gap64 | Portrait           | H                | 6.2382          | -5.14  | 0           | -5.14          | 6.3552             | -42.75        | -41.3        | -1.45          |
| 2   | 5  | 80B | 0      | Portrait           | H                | 6.2392          | -5.11  | 0           | -5.11          | 6.3552             | -42.56        | -41.3        | -1.26          |
| 2   | 5  | 80C | 0      | Portrait           | H                | 6.2372          | -4.58  | 0           | -4.58          | 6.3552             | -42.42        | -41.3        | -1.12          |

**ANT2, CH9**

| ANT | CH | CF  | PL     | EUT Orientation | Ant. Polarity | Peak EIRP Power |        |          |             |  | Average EIRP Power |               |           |             |
|-----|----|-----|--------|-----------------|---------------|-----------------|--------|----------|-------------|--|--------------------|---------------|-----------|-------------|
|     |    |     |        |                 |               | FM (GHz)        | Adj Pk | Pk Limit | Margin (dB) |  | FM (GHz)           | Adj Av        | Avg Limit | Margin (dB) |
| 2   | 9  | 0   | 25     | Landscape       | H             | 7.9858          | -1.55  | 0        | -1.55       |  | 7.9788             | -42.49        | -41.3     | -1.19       |
| 2   | 9  | 1   | 45     | Landscape       | H             | 7.9888          | -1.20  | 0        | -1.20       |  | 8.0187             | -42.82        | -41.3     | -1.52       |
| 2   | 9  | 6   | 125    | Landscape       | H             | 7.9858          | -5.60  | 0        | -5.60       |  | 8.0367             | -42.45        | -41.3     | -1.15       |
| 2   | 9  | 9   | 125    | Landscape       | H             | 7.9858          | -6.37  | 0        | -6.37       |  | 8.0117             | -42.39        | -41.3     | -1.09       |
| 2   | 9  | 10  | 25     | Landscape       | H             | 7.9858          | -1.81  | 0        | -1.81       |  | 7.9788             | -42.68        | -41.3     | -1.38       |
| 2   | 9  | 11  | 25     | Landscape       | H             | 7.9859          | -1.45  | 0        | -1.45       |  | 8.0187             | -44.20        | -41.3     | -2.90       |
| 2   | 9  | 11  | 65     | Landscape       | H             | 7.9858          | -1.85  | 0        | -1.85       |  | 8.0187             | -42.59        | -41.3     | -1.29       |
| 2   | 9  | 101 | 25     | Landscape       | H             | 7.9838          | -1.50  | 0        | -1.50       |  | 8.0187             | -44.44        | -41.3     | -3.14       |
| 2   | 9  | 101 | 65     | Landscape       | H             | 7.9848          | -1.77  | 0        | -1.77       |  | 8.0187             | -42.64        | -41.3     | -1.34       |
| 2   | 9  | 102 | 25     | Landscape       | H             | 7.9848          | -1.48  | 0        | -1.48       |  | 8.0187             | -44.25        | -41.3     | -2.95       |
| 2   | 9  | 102 | 65     | Landscape       | H             | 7.9878          | -1.78  | 0        | -1.78       |  | 8.0187             | -42.53        | -41.3     | -1.23       |
| 2   | 9  | 103 | 25     | Landscape       | H             | 7.9878          | -1.75  | 0        | -1.75       |  | 7.9718             | -42.78        | -41.3     | -1.48       |
| 2   | 9  | 103 | 125    | Landscape       | H             | 7.9888          | -3.91  | 0        | -3.91       |  | 8.0187             | <b>-42.33</b> | -41.3     | -1.03       |
| 2   | 9  | 202 | 625    | Landscape       | H             | 7.9888          | -13.96 | 0        | -13.96      |  | 7.9878             | -42.65        | -41.3     | -1.35       |
| 2   | 9  | 402 | 445    | Landscape       | H             | 8.2167          | -11.54 | 0        | -11.54      |  | 7.9758             | -42.51        | -41.3     | -1.21       |
| 2   | 9  | 501 | 0      | Landscape       | H             | 8.2167          | -1.36  | 0        | -1.36       |  | 8.0337             | -42.74        | -41.3     | -1.44       |
| 2   | 9  | 503 | 0      | Landscape       | H             | 8.2157          | -1.30  | 0        | -1.30       |  | 8.0297             | -42.73        | -41.3     | -1.43       |
| 2   | 9  | 601 | 0      | Landscape       | H             | 8.2167          | -3.93  | 0        | -3.93       |  | 7.9738             | -42.53        | -41.3     | -1.23       |
| 2   | 9  | 605 | 0      | Landscape       | H             | 8.2167          | -1.40  | 0        | -1.40       |  | 7.9778             | -42.65        | -41.3     | -1.35       |
| 2   | 9  | 607 | 0      | Landscape       | H             | 8.2157          | -1.21  | 0        | -1.21       |  | 8.0177             | -42.44        | -41.3     | -1.14       |
| 2   | 9  | 701 | 0      | Landscape       | H             | 8.2337          | -3.66  | 0        | -3.66       |  | 7.9808             | -42.45        | -41.3     | -1.15       |
| 2   | 9  | 702 | 0      | Landscape       | H             | 8.2367          | -1.69  | 0        | -1.69       |  | 8.0337             | -42.39        | -41.3     | -1.09       |
| 2   | 9  | 703 | 0      | Landscape       | H             | 8.2367          | -2.20  | 0        | -2.20       |  | 8.0377             | -42.52        | -41.3     | -1.22       |
| 2   | 9  | 704 | 0      | Landscape       | H             | 7.9838          | -8.11  | 0        | -8.11       |  | 8.0157             | -42.47        | -41.3     | -1.17       |
| 2   | 9  | 705 | 0      | Landscape       | H             | 8.0487          | -3.55  | 0        | -3.55       |  | 8.0367             | -42.54        | -41.3     | -1.24       |
| 2   | 9  | 706 | 0      | Landscape       | H             | 8.0497          | -4.78  | 0        | -4.78       |  | 8.0337             | -42.40        | -41.3     | -1.10       |
| 2   | 9  | 405 | 4093   | Landscape       | H             | 8.0467          | -14.27 | 0        | -14.27      |  | 8.0377             | -42.40        | -41.3     | -1.10       |
| 2   | 9  | 407 | 4093   | Landscape       | H             | 8.0497          | -13.76 | 0        | -13.76      |  | 8.0347             | -42.45        | -41.3     | -1.15       |
| 2   | 9  | 409 | 4093   | Landscape       | H             | 7.9868          | -14.42 | 0        | -14.42      |  | 7.9828             | -42.35        | -41.3     | -1.05       |
| 2   | 9  | 801 | 0Gap0  | Landscape       | H             | 8.2367          | -5.49  | 0        | -5.49       |  | 8.0387             | -42.65        | -41.3     | -1.35       |
| 2   | 9  | 801 | 0Gap64 | Landscape       | H             | 8.2357          | -5.24  | 0        | -5.24       |  | 8.0087             | -42.60        | -41.3     | -1.30       |
| 2   | 9  | 802 | 0      | Landscape       | H             | 8.2367          | -5.22  | 0        | -5.22       |  | 8.0187             | -42.52        | -41.3     | -1.22       |
| 2   | 9  | 803 | 0      | Landscape       | H             | 8.2387          | -4.14  | 0        | -4.14       |  | 8.0187             | -42.48        | -41.3     | -1.18       |
| 2   | 9  | 804 | 0Gap0  | Landscape       | H             | 8.2347          | -8.49  | 0        | -8.49       |  | 7.9868             | -42.70        | -41.3     | -1.40       |
| 2   | 9  | 804 | 0Gap64 | Landscape       | H             | 8.2357          | -8.23  | 0        | -8.23       |  | 8.0187             | -42.49        | -41.3     | -1.19       |
| 2   | 9  | 805 | 0      | Landscape       | H             | 8.2357          | -8.05  | 0        | -8.05       |  | 8.0187             | -42.39        | -41.3     | -1.09       |
| 2   | 9  | 806 | 0      | Landscape       | H             | 8.2377          | -6.30  | 0        | -6.30       |  | 8.0187             | -42.56        | -41.3     | -1.26       |
| 2   | 9  | 807 | 0Gap0  | Landscape       | H             | 8.2357          | -5.47  | 0        | -5.47       |  | 8.0387             | -42.61        | -41.3     | -1.31       |
| 2   | 9  | 807 | 0Gap64 | Landscape       | H             | 8.2157          | -4.33  | 0        | -4.33       |  | 8.0167             | -42.57        | -41.3     | -1.27       |
| 2   | 9  | 808 | 0      | Landscape       | H             | 8.2167          | -4.08  | 0        | -4.08       |  | 7.9778             | -42.57        | -41.3     | -1.27       |
| 2   | 9  | 809 | 0      | Landscape       | H             | 8.2367          | -4.20  | 0        | -4.20       |  | 8.0167             | -42.39        | -41.3     | -1.09       |
| 2   | 9  | 80A | 0Gap0  | Landscape       | H             | 8.2157          | -7.71  | 0        | -7.71       |  | 8.0287             | -42.42        | -41.3     | -1.12       |
| 2   | 9  | 80A | 0Gap64 | Landscape       | H             | 8.2347          | -5.89  | 0        | -5.89       |  | 8.0087             | -42.43        | -41.3     | -1.13       |
| 2   | 9  | 80B | 0      | Landscape       | H             | 8.2347          | -6.03  | 0        | -6.03       |  | 8.0237             | -42.44        | -41.3     | -1.14       |
| 2   | 9  | 80C | 0      | Landscape       | H             | 8.2367          | -6.35  | 0        | -6.35       |  | 8.0337             | -42.70        | -41.3     | -1.40       |

**PEAK POWER AND MAXIMUM AVERAGE EMISSIONS**





## 9.4 CESSATION TIME

### LIMITS

#### FCC

§15.519(a)(1) 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 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.

#### RSS-220

Section 5.3.1 (b) The device is to transmit only when it is sending information to an associated receiver. The device shall cease transmission of information within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB device at least every 10 seconds or the UWB device shall cease transmitting any information other than periodic signals used for the establishment or re-establishment of a communication link with an associated receiver.

### TEST PROCEDURES

\* Initiator = EUT

\* Responder = associated receiver

Transmissions are monitored for two cases:

1. The Initiator ends the UWB link.
2. The Responder ends the UWB link.

**RESULTS**

Employee ID: 26051

Location: Chamber 02-RDE-F

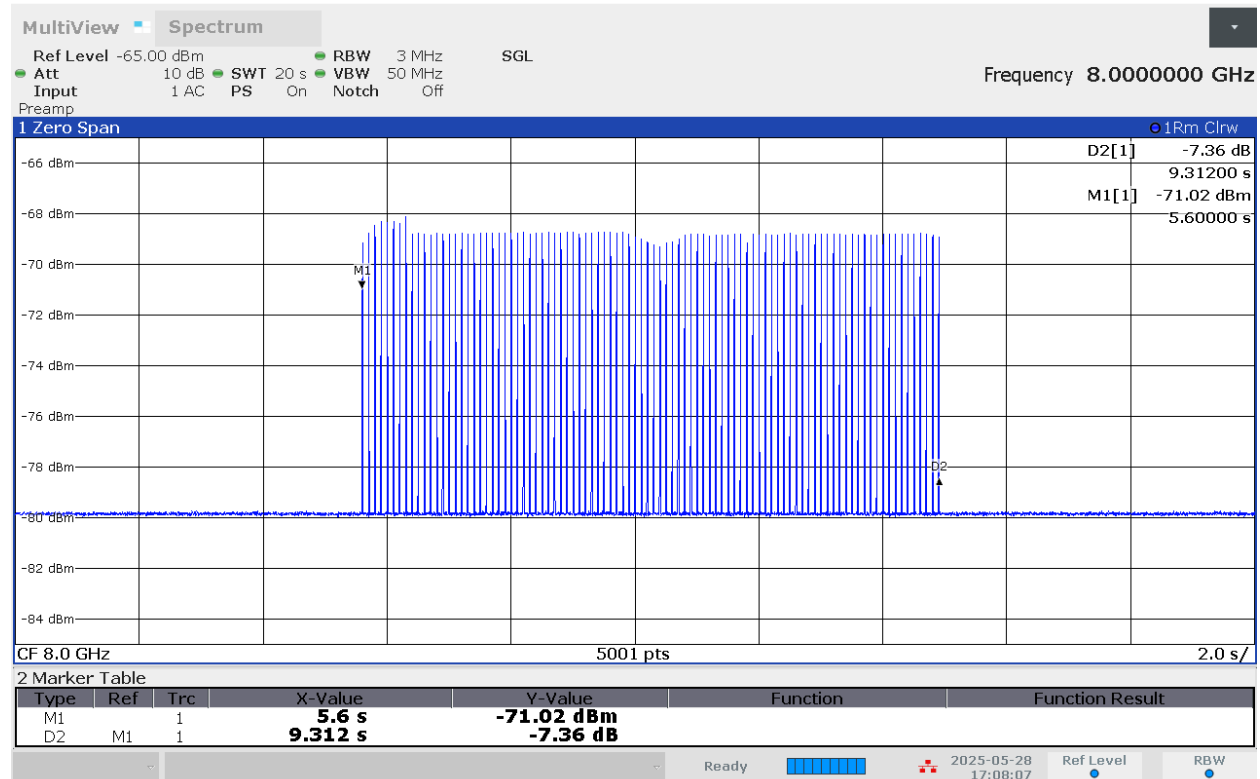
Test Date: 5/28/2025

## Signal Levels on all Plots

- Initiator is Low Amplitude
- Responder is High Amplitude

**Case 1: Initiator ends the UWB link**

AP2021.2.16, 26051, 2F



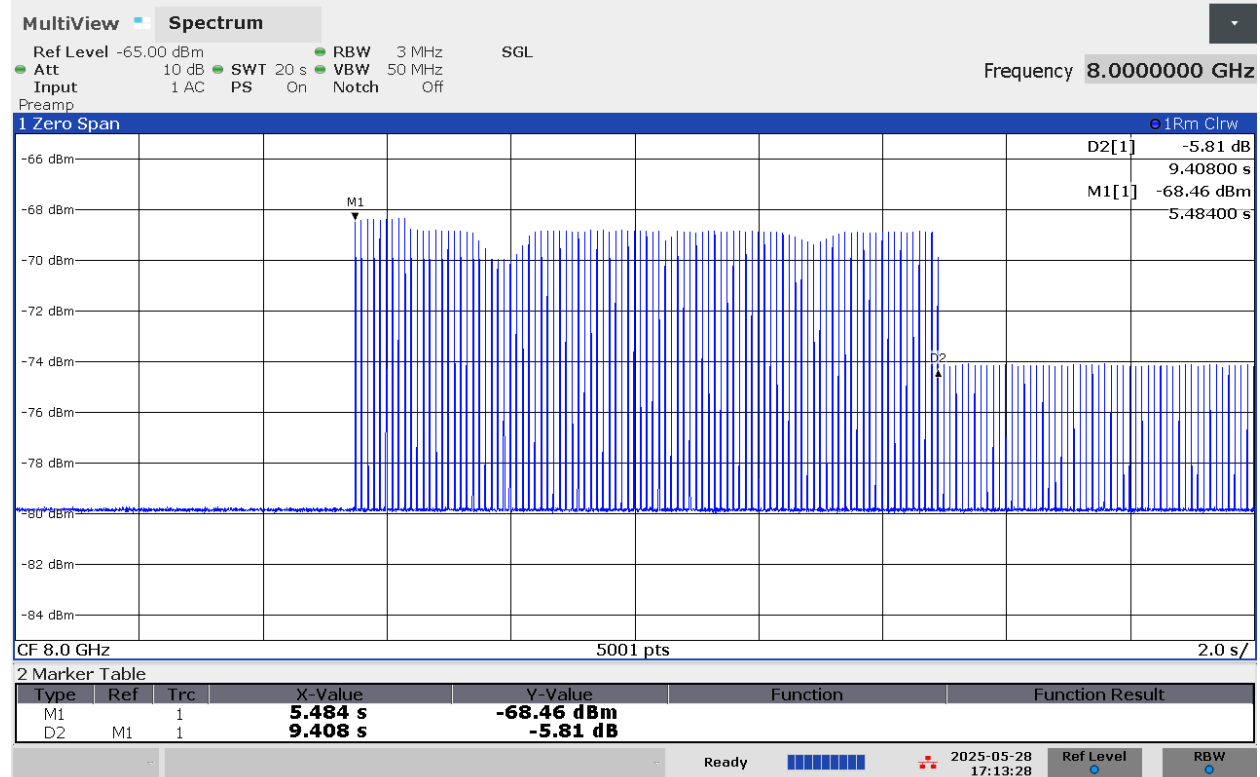
05:08:08 PM 05/28/2025

**RESULT**

- M1: The Initiator receives an Acknowledgement from the Responder and starts transmitting.
- D2: The Initiator ceases transmission and polling.

Case 2: Responder ends the UWB link

AP2021.2.16, 26051, 2F



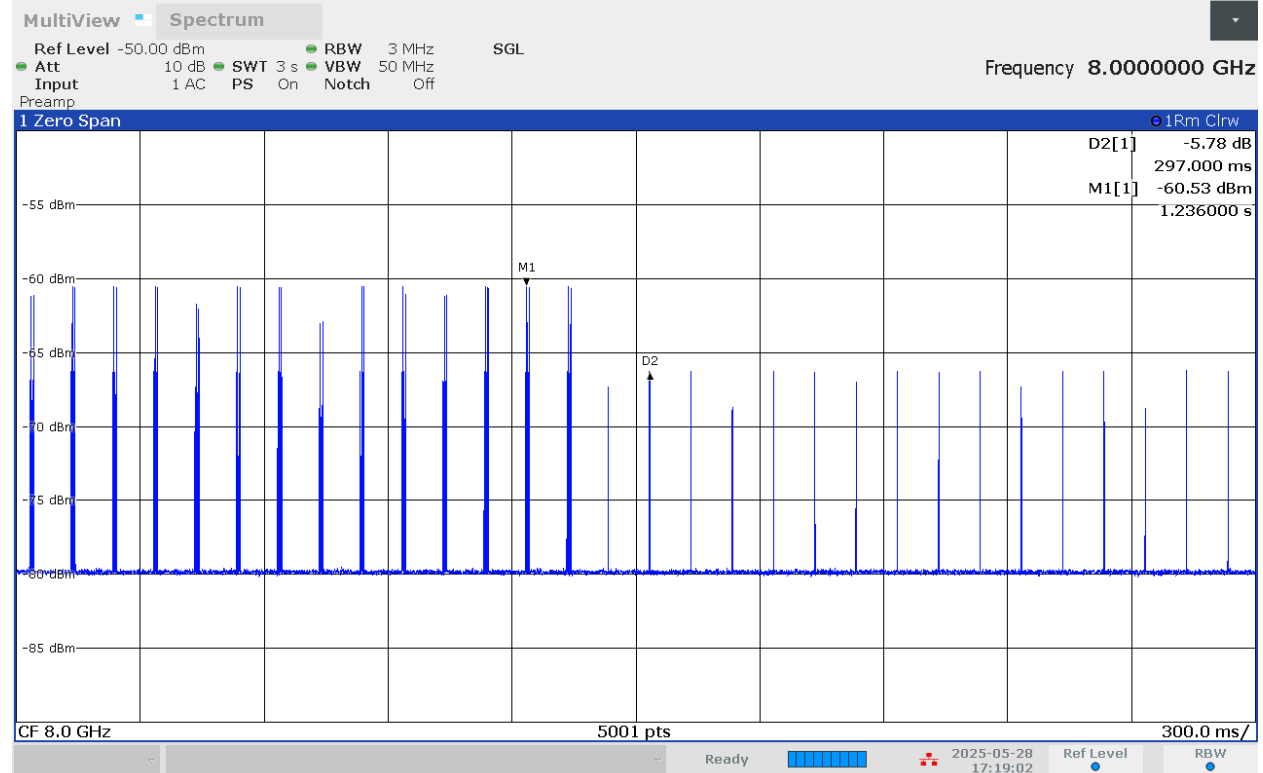
05:13:28 PM 05/28/2025

**RESULT**

- M1: The Initiator receives an Acknowledgement from the Responder and starts transmitting.
- D2: The Responder stops sending acknowledgments and the Initiator continues polling.

Zoom-in Plot during On-Off Transition

AP2021.2.16, 26051, 2F



05:19:03 PM 05/28/2025

RESULT

- M1: Shows Link Traffic, Acknowledgements and Polling Signals while Link is established
- D2: Shows Polling Signals after Link has ended

## 9.5 EMISSIONS BELOW 960 MHz

### LIMITS

#### FCC

§15.519 (c) The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in §15.209. 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:

15.209 (a)

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300                           |
| 0.490-1.705     | 24000/F(kHz)                      | 30                            |
| 1.705-30.0      | 30                                | 30                            |
| 30-88           | 100**                             | 3                             |
| 88-216          | 150**                             | 3                             |
| 216-960         | 200**                             | 3                             |

#### RSS-220

Section 3.4 Radiated emissions at or below 960 MHz for all subclasses of UWB device shall not exceed the following limits. Measurements of radiated emissions at and below 960 MHz are to be made using a CISPR quasi-peak detector. CISPR measurement bandwidth specifications are to be used.

| Frequency (MHz) | Field Strength (Microvolts/m) | Measurement Distance (Metres) | E.i.r.p. (dBmW)                       |
|-----------------|-------------------------------|-------------------------------|---------------------------------------|
| 0.009-0.490     | 2,400/F<br>(F in kHz)         | 300                           | $10 \log (17.28 / F^2)$<br>(F in kHz) |
| 0.490-1.705     | 24,000/F<br>(F in kHz)        | 30                            | $10 \log (17.28 / F^2)$<br>(F in kHz) |
| 1.705-30        | 30                            | 30                            | -45.7                                 |
| 30-88           | 100                           | 3                             | -55.2                                 |
| 88-216          | 150                           | 3                             | -51.7                                 |
| 216-960         | 200                           | 3                             | -49.2                                 |

**Note:** The emission limits for the bands 9-90 kHz and 110-490 kHz are based on measurements employing an average emissions detector.

**TEST PROCEDURE**

ANSI C63.10 Clause 10.2

RSS-220 Annex

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 3m from the EUT.

For below 30 MHz testing, investigation was done on three antenna orientations: RX antenna Face-on, Face-off and horizontal (parallel to ground). The worst-case configurations were determined on RX antenna Face-on and Face-off; therefore, all final tests were performed using these two orientations.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 meter open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

A final test is made at any frequencies at which emissions are found. During this final scan, the antenna is kept no further from the EUT than the maximum distance calculated for each band that yields a minimum system noise floor.

**RESULTS****Emissions Summary**

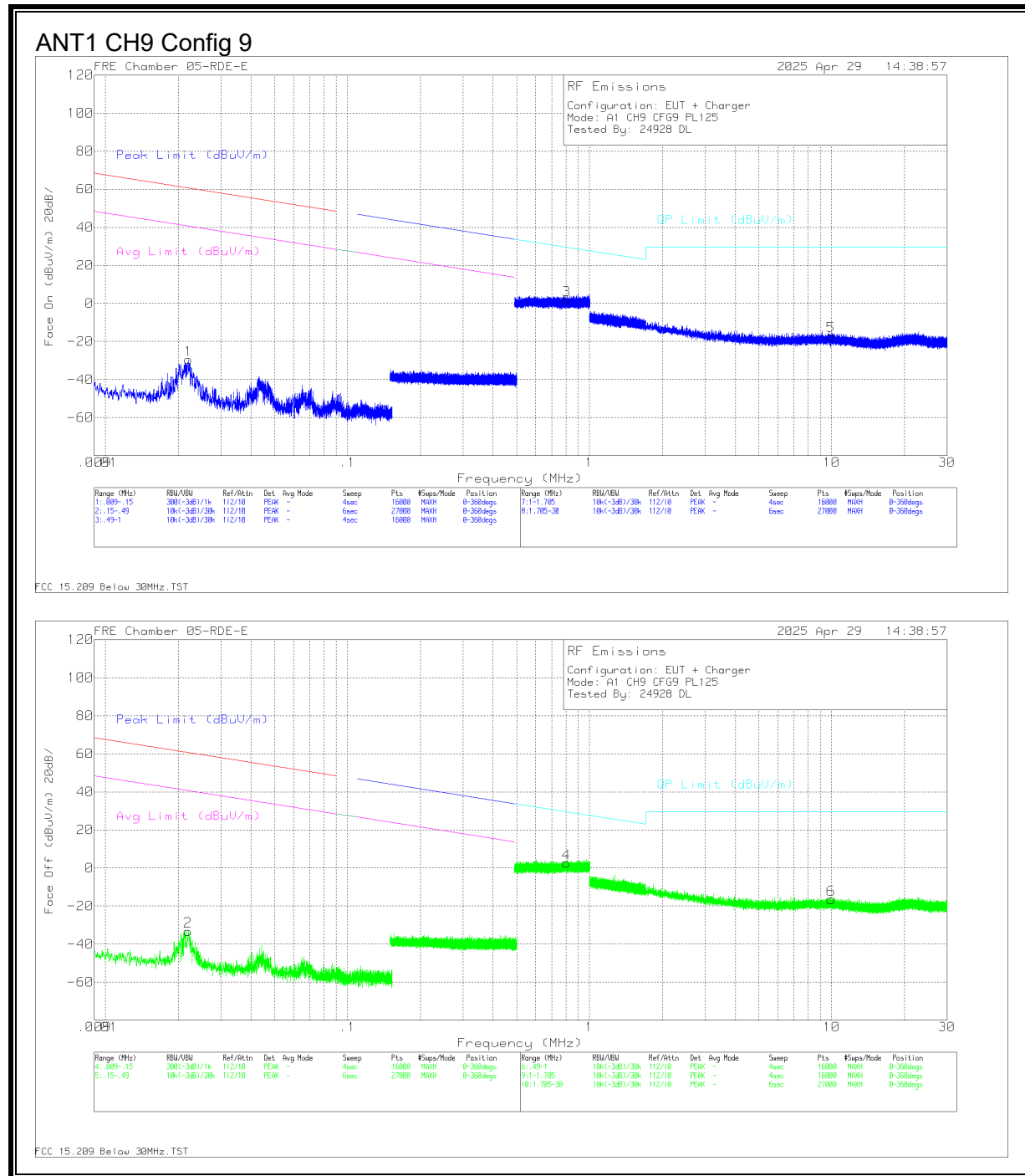
Employee IDs: 24928, 25196, 26051

Location: Chamber 05-RDE-C, Chamber 05-RDE-E

Test Date: 4/29/2025 to 5/15/2025

| Ant | CH | Config | Payload | Power Setting | Frequency Range |              |
|-----|----|--------|---------|---------------|-----------------|--------------|
|     |    |        |         |               | 9 kHz - 30 MHz  | 30 - 960 MHz |
| 1   | 9  | 9      | 125     | Max           | PASS            | PASS         |
| 2   | 5  | 9      | 125     | Max           | PASS            | PASS         |
| 2   | 9  | 9      | 125     | Max           | PASS            | PASS         |

## 9.5.1. EMISSIONS, 9 kHz – 30 MHz



## Trace Markers

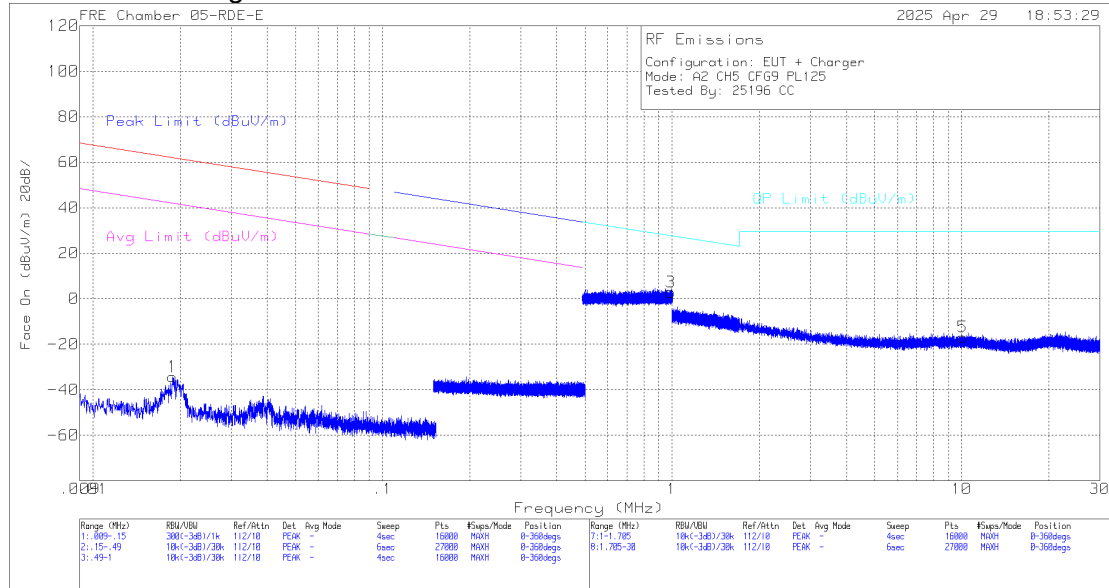
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Dot | Loop Antenna E (dB/m) | Cbl/AMP (dB) | Dist Corr 300m | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | Margin (dB) | Avg Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|-----------------------|--------------|----------------|----------------------------|---------------------|-------------|--------------------|-------------|----------------|
| 2      | .022            | 20.08                | Pk  | 58.8                  | -32.1        | -80            | -33.22                     | 60.74               | -93.96      | 40.74              | -73.96      | 0-360          |
| 1      | .0221           | 23.76                | Pk  | 58.8                  | -32.1        | -80            | -29.54                     | 60.7                | -90.24      | 40.7               | -70.24      | 0-360          |

Pk - Peak detector

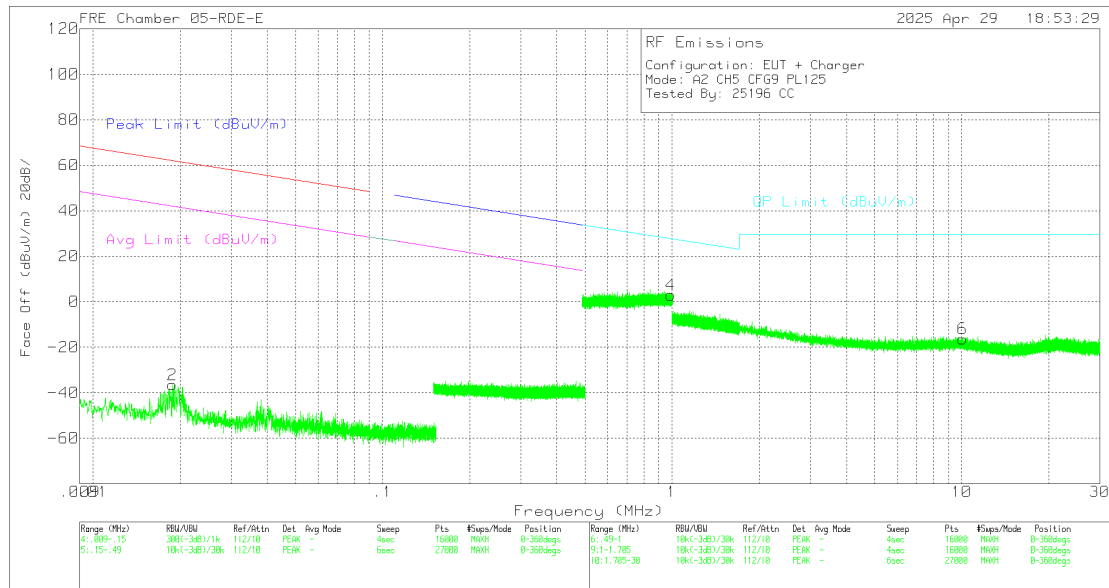
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna E (dB/m) | Cbl/AMP (dB) | Dist Corr 30m (dB) | 40Log | Corrected Reading (dBuV/m) | QP Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|-----------------------|--------------|--------------------|-------|----------------------------|-------------------|-------------|----------------|
| 3      | 8048            | 18.06                | Pk  | 56.3                  | -32.4        | -40                |       | 1.96                       | 29.5              | -27.54      | 0-360          |
| 4      | 8049            | 18.57                | Pk  | 56.3                  | -32.4        | -40                |       | 2.47                       | 29.5              | -27.03      | 0-360          |
| 5      | 9.936           | 20.41                | Pk  | 34.8                  | -32.3        | -40                |       | -17.09                     | 29.5              | -46.59      | 0-360          |
| 6      | 9.957           | 20.96                | Pk  | 34.8                  | -32.3        | -40                |       | -16.54                     | 29.5              | -46.04      | 0-360          |

Pk - Peak detector

## ANT2 CH5 Config 9



FCC 15.209 Below 30MHz.TST



FCC 15.209 Below 30MHz.TST

**Trace Markers**

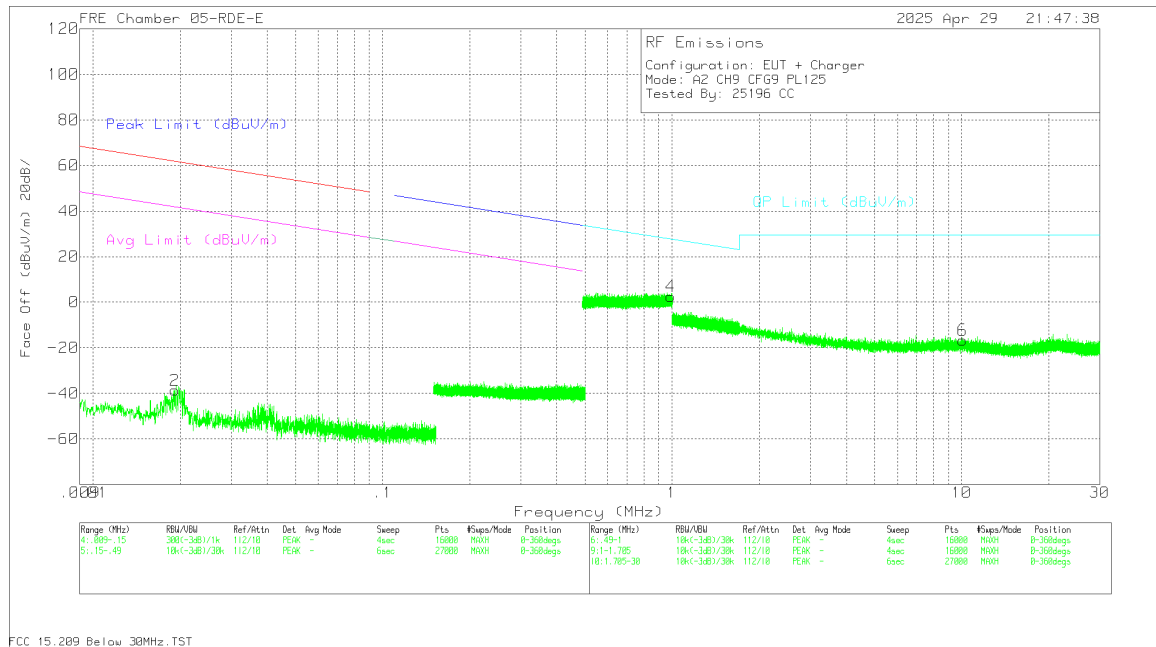
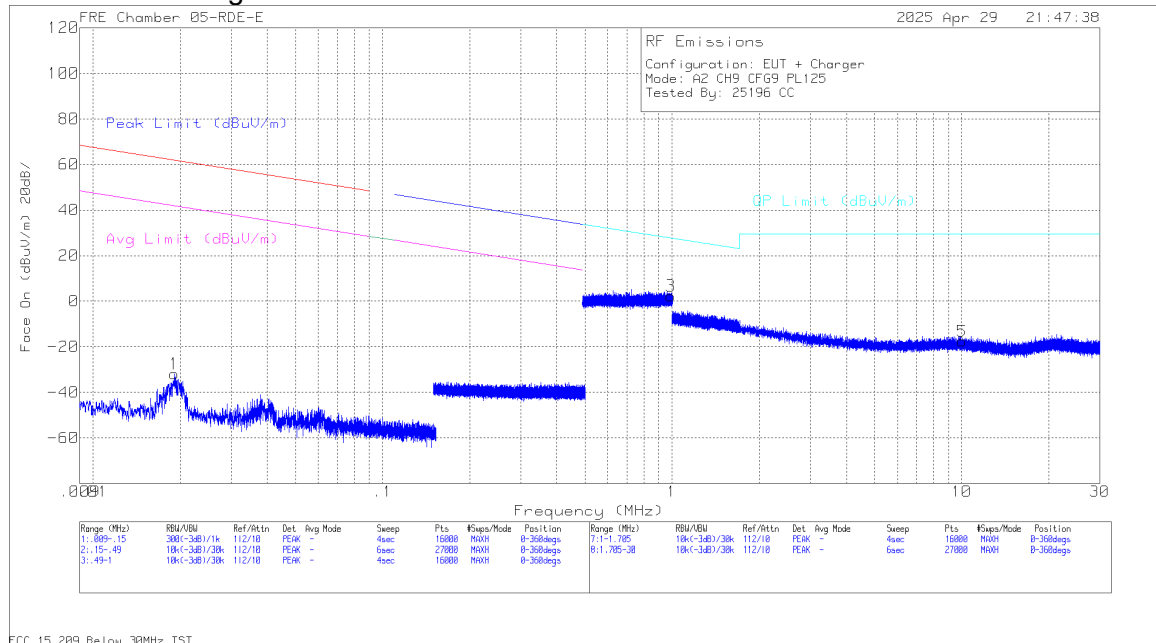
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna E (dB/m) | Cbl/AMP (dB) | Dist Corr 300m | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | Margin (dB) | Avg Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|-----------------------|--------------|----------------|----------------------------|---------------------|-------------|--------------------|-------------|----------------|
| 1      | .0188           | 18.43                | Pk  | 59.2                  | -31.9        | -80            | -34.27                     | 62.08               | -96.35      | 42.08              | -76.35      | 0-360          |
| 2      | .0188           | 16.16                | Pk  | 59.2                  | -31.9        | -80            | -36.54                     | 62.08               | -98.62      | 42.08              | -78.62      | 0-360          |

Pk - Peak detector

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna E (dB/m) | Cbl/AMP (dB) | Dist Corr 30m (dB) 40Log | Corrected Reading (dBuV/m) | QP Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|-----------------------|--------------|--------------------------|----------------------------|-------------------|-------------|----------------|
| 3      | .9907           | 18.82                | Pk  | 56.4                  | -32.3        | -40                      | 2.92                       | 27.7              | -24.78      | 0-360          |
| 4      | .9907           | 18.87                | Pk  | 56.4                  | -32.3        | -40                      | 2.97                       | 27.7              | -24.73      | 0-360          |
| 6      | 10.0911         | 21.19                | Pk  | 34.8                  | -32.3        | -40                      | -16.31                     | 29.5              | -45.81      | 0-360          |
| 5      | 10.0921         | 20.65                | Pk  | 34.8                  | -32.3        | -40                      | -16.85                     | 29.5              | -46.35      | 0-360          |

Pk - Peak detector

## ANT2 CH9 Config 9



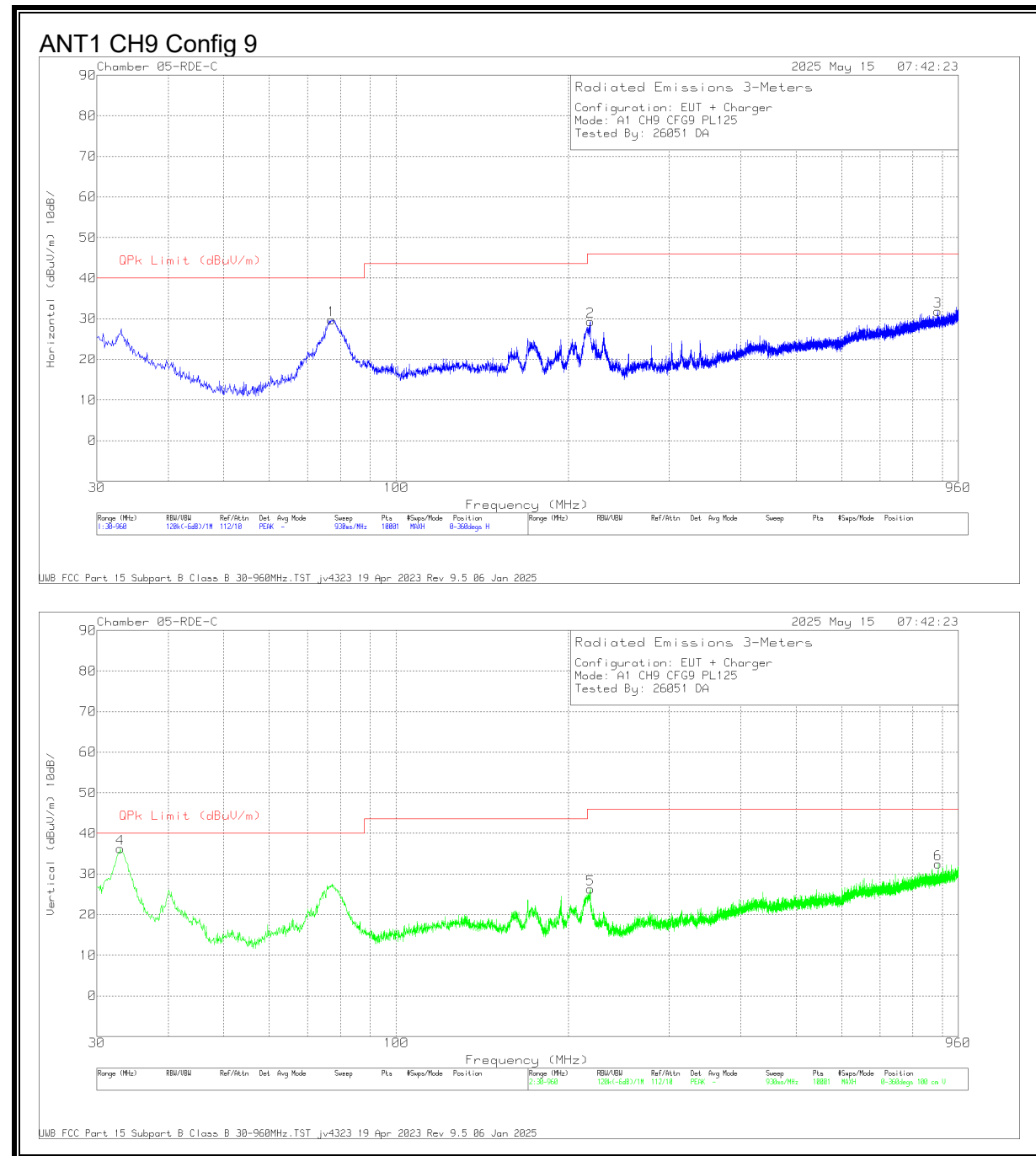
## Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna E (dB/m) | Cbl/AMP (dB) | Dist Corr 300m | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | Margin (dB) | Avg Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|-----------------------|--------------|----------------|----------------------------|---------------------|-------------|--------------------|-------------|----------------|
| 1      | .0191           | 20.95                | Pk  | 59.1                  | -31.9        | -80            | -31.85                     | 61.96               | -93.81      | 41.96              | -73.81      | 0-360          |
| 2      | .0192           | 14.17                | Pk  | 59.1                  | -31.9        | -80            | -38.63                     | 61.94               | -100.57     | 41.94              | -80.57      | 0-360          |

Pk - Peak detector

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna E (dB/m) | Cbl/AMP (dB) | Dist Corr 30m (dB) 40Log | Corrected Reading (dBuV/m) | QP Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|-----------------------|--------------|--------------------------|----------------------------|-------------------|-------------|----------------|
| 3      | .9907           | 18.23                | Pk  | 56.4                  | -32.3        | -40                      | 2.33                       | 27.7              | -25.37      | 0-360          |
| 4      | .9908           | 18.44                | Pk  | 56.4                  | -32.3        | -40                      | 2.54                       | 27.7              | -25.16      | 0-360          |
| 5      | 10.0418         | 19.92                | Pk  | 34.8                  | -32.3        | -40                      | -17.58                     | 29.5              | -47.08      | 0-360          |
| 6      | 10.0639         | 20.81                | Pk  | 34.8                  | -32.3        | -40                      | -16.69                     | 29.5              | -46.19      | 0-360          |

Pk - Peak detector

**9.5.2. EMISSIONS, 30 - 960 MHz****Trace Markers**

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 171863 ACF (dB/m) | CBL AMP (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 4      | 32.976          | 42.37                | Pk  | 24.8              | -30.9        | 36.27                      | 40                 | -3.73       | 0-360          | 100         | V        |
| 1      | 77.058          | 46.32                | Pk  | 13.9              | -30.5        | 29.72                      | 40                 | -10.28      | 0-360          | 299         | H        |
| 2      | 218.325         | 43.16                | Pk  | 16.5              | -30.3        | 29.36                      | 46.02              | -16.66      | 0-360          | 100         | H        |
| 5      | 218.325         | 40.15                | Pk  | 16.5              | -30.3        | 26.35                      | 46.02              | -19.67      | 0-360          | 198         | V        |
| 3      | 884.112         | 32.18                | Pk  | 27.8              | -28.1        | 31.88                      | 46.02              | -14.14      | 0-360          | 398         | H        |
| 6      | 884.949         | 32.15                | Pk  | 27.9              | -27.6        | 32.45                      | 46.02              | -13.57      | 0-360          | 100         | V        |

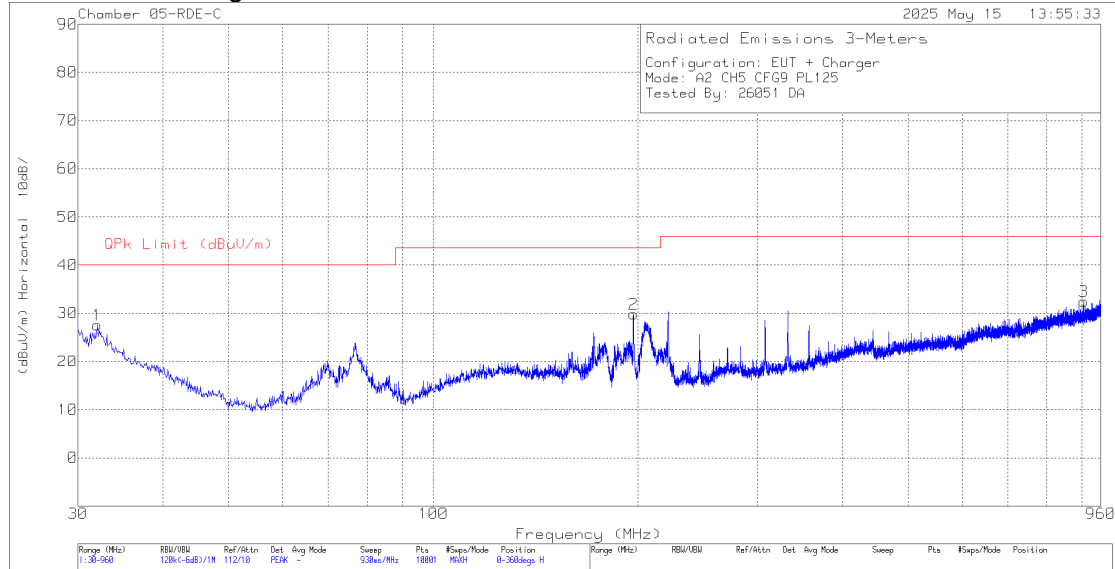
Pk - Peak detector

**Radiated Emissions**

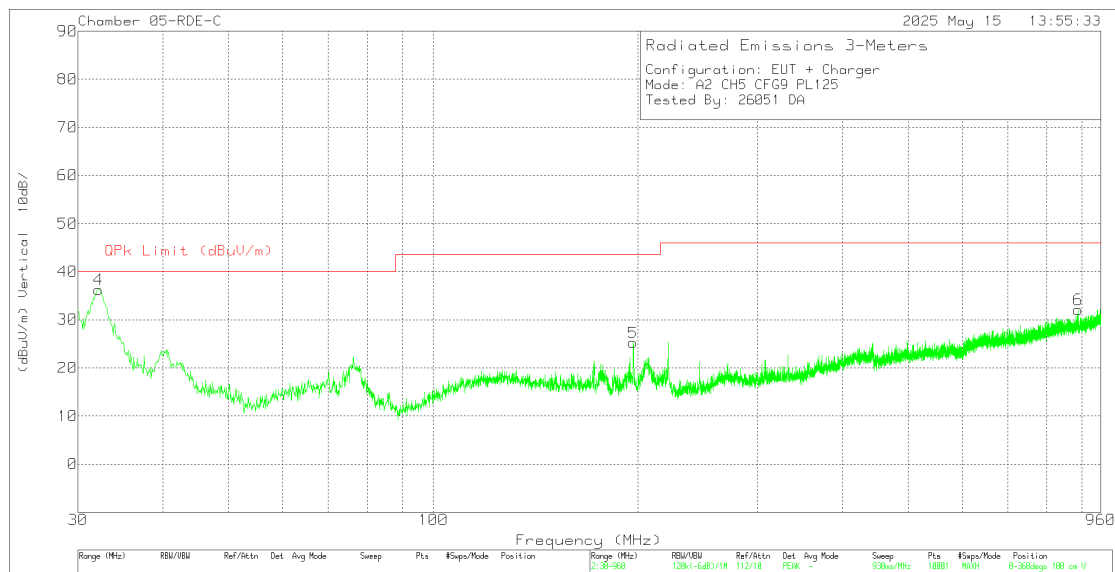
| Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Det | 171863 ACF<br>(dB/m) | CBL AMP<br>(dB) | Corrected<br>Reading<br>(dBuV/m) | QPk Limit<br>(dBuV/m) | Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------------------|----------------------------|-----|----------------------|-----------------|----------------------------------|-----------------------|----------------|-------------------|----------------|----------|
| 33.0981            | 39.86                      | Qp  | 24.7                 | -30.9           | 33.66                            | 40                    | -6.34          | 166               | 100            | V        |

Qp - Quasi-Peak detector

## ANT2 CH5 Config 9



ULB FCC Part 15 Subpart B Class B 30-960MHz.TST jv4323 19 Apr 2023 Rev 9.5 06 Jan 2025



ULB FCC Part 15 Subpart B Class B 30-960MHz.TST jv4323 19 Apr 2023 Rev 9.5 06 Jan 2025

## Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 171863 ACF (dB/m) | CBL AMP (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1      | 32.046          | 33.62                | Pk  | 25.3              | -31.3        | 27.62                      | 40                 | -12.38      | 0-360          | 99          | H        |
| 4      | 32.139          | 42.32                | Pk  | 25.2              | -31.2        | 36.32                      | 40                 | -3.68       | 0-360          | 100         | V        |
| 5      | 196.935         | 37.44                | Pk  | 17.9              | -30.1        | 25.24                      | 43.52              | -18.28      | 0-360          | 199         | V        |
| 2      | 197.028         | 42.02                | Pk  | 17.9              | -30.1        | 29.82                      | 43.52              | -13.7       | 0-360          | 99          | H        |
| 6      | 888.762         | 31.91                | Pk  | 27.9              | -27.7        | 32.11                      | 46.02              | -13.91      | 0-360          | 100         | V        |
| 3      | 905.595         | 31.77                | Pk  | 28.1              | -27.4        | 32.47                      | 46.02              | -13.55      | 0-360          | 99          | H        |

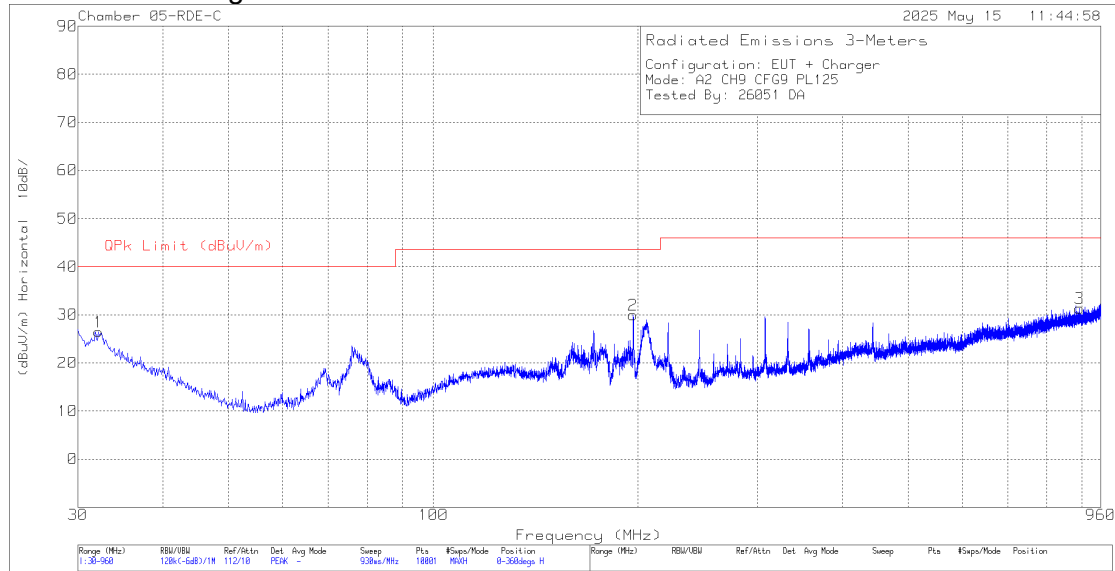
Pk - Peak detector

**Radiated Emissions**

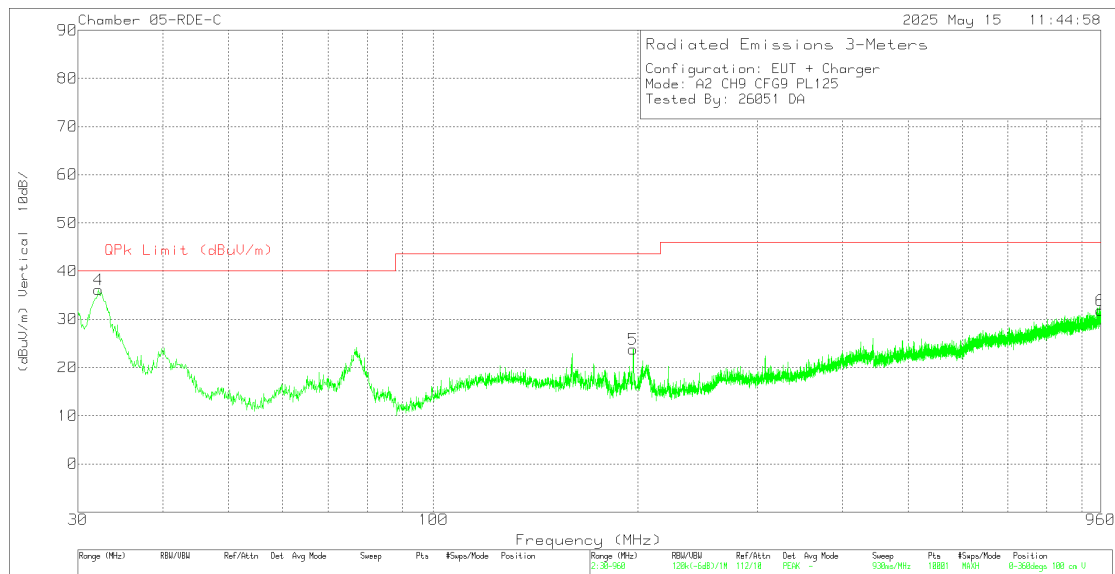
| Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Det | 171863 ACF<br>(dB/m) | CBL AMP<br>(dB) | Corrected<br>Reading<br>(dBuV/m) | QPk Limit<br>(dBuV/m) | Margin<br>(dB) | Azimuth<br>(Degr) | Height<br>(cm) | Polarity |
|--------------------|----------------------------|-----|----------------------|-----------------|----------------------------------|-----------------------|----------------|-------------------|----------------|----------|
| 32.3595            | 39.1                       | Qp  | 25.1                 | -31.2           | 33                               | 40                    | -7             | 88                | 103            | V        |

Qp - Quasi-Peak detector

## ANT2 CH9 Config 9



UNB FCC Part 15 Subpart B Class B 30-960MHz.TST\_jv4323 19 Apr 2023 Rev 9.5 06 Jan 2025



UNB FCC Part 15 Subpart B Class B 30-960MHz.TST\_jv4323 19 Apr 2023 Rev 9.5 06 Jan 2025

## Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 171863 ACF (dB/m) | CBL AMP (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1      | 32.139          | 32.49                | Pk  | 25.2              | -31.2        | 26.49                      | 40                 | -13.51      | 0-360          | 99          | H        |
| 4      | 32.139          | 42.18                | Pk  | 25.2              | -31.2        | 36.18                      | 40                 | -3.82       | 0-360          | 100         | V        |
| 2      | 196.935         | 42.16                | Pk  | 17.9              | -30.1        | 29.96                      | 43.52              | -13.56      | 0-360          | 99          | H        |
| 5      | 196.935         | 35.99                | Pk  | 17.9              | -30.1        | 23.79                      | 43.52              | -19.73      | 0-360          | 199         | V        |
| 3      | 892.761         | 31.02                | Pk  | 28                | -27.7        | 31.32                      | 46.02              | -14.7       | 0-360          | 299         | H        |
| 6      | 959.163         | 29.68                | Pk  | 28.7              | -26.5        | 31.88                      | 46.02              | -14.14      | 0-360          | 100         | V        |

Pk - Peak detector

**Radiated Emissions**

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Det | 171863 ACF<br>(dB/m) | CBL AMP<br>(dB) | Corrected<br>Reading<br>(dBuV/m) | QPk Limit<br>(dBuV/m) | Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------------------|----------------------------|-----|----------------------|-----------------|----------------------------------|-----------------------|----------------|-------------------|----------------|----------|
| 32.2662            | 39.91                      | Qp  | 25.2                 | -31.2           | 33.91                            | 40                    | -6.09          | 73                | 103            | V        |

Qp - Quasi-Peak detector

## 9.6 AVERAGE EMISSIONS ABOVE 960 MHz

### LIMITS

#### FCC

15.519 (c)

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

§15.519 (d) In addition to the radiated emission limits specified in the table in paragraph (c) of this section, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

| Frequency in MHz | EIRP in dBm |
|------------------|-------------|
| 1164-1240        | -85.3       |
| 1559-1610        | -85.3       |

#### RSS-220

Section 5.3.1 (d) Radiated emissions above 960 MHz from a device shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz.

| <b>Hand-held (Outdoor) Communication, Measurement, Location Sensing, and Tracking Devices</b> |                                                    |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>Frequency</b>                                                                              | <b>E.i.r.p. in a Resolution Bandwidth of 1 MHz</b> |
| 960-1 610 MHz                                                                                 | -75.3 dBm                                          |
| 1.61-4.75 GHz                                                                                 | -70.0 dBm                                          |
| 4.75-10.6 GHz                                                                                 | -41.3 dBm                                          |
| Above 10.6 GHz                                                                                | -61.3 dBm                                          |

Section 5.3.1 (e) In addition to the limits specified in paragraph (d) of this section, radiated emissions shall not exceed the following average limits 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.

| <b>Frequency</b> | <b>E.i.r.p. in a Resolution Bandwidth of no less than 1 kHz</b> |
|------------------|-----------------------------------------------------------------|
| 1 164-1 240 MHz  | -85.3 dBm                                                       |
| 1 559-1 610 MHz  | -85.3 dBm                                                       |

**TEST PROCEDURE**

ANSI C63.10 Clause 10.3.

RSS-220 Annex

Exploratory measurements for all frequency ranges are performed with the measurement antenna at close distances to the EUT as described in ANSI C63.10 6.6.4.2. Where emissions are observed the measurement antenna is then positioned at a height of 1.5m and a distance of 1m for 18-40GHz and 0.5m for 0.96-5GHz, 1.164-1.240GHz, and 1.559-1.610GHz from the EUT and final measurements are made at the frequencies observed in the exploratory scans using the alternative measurement procedures detailed in ANSI C63.10 section 6.6.5. If no emissions are observed, a plot is made at a test distance of 1m for 18-40GHz and 0.5m for 0.96-5GHz, 1.164-1.240GHz, and 1.559-1.610GHz from the EUT to show the measurement system noise floor.

**PROCEDURE FOR 0.96 TO 5 GHz**

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

A low pass filter with a cut off frequency of 5 GHz is used to suppress the fundamental and perform measurement for 0.96 - 5 GHz.

Distance Correction Factor from 3m to 0.5m =  $20 \cdot \log(0.5\text{m}/3\text{m}) = -15.56 \text{ dB}$

**RESULTS FOR 5 GHz TO 9 GHz**

The 5 - 9 GHz frequency band is covered in Section 9.3.

**PROCEDURE FOR 9 GHz TO 18 GHz**

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

A high pass filter with pass band frequency beyond 9 GHz is used to suppress the fundamental and perform measurement for 9 - 18 GHz.

Distance Correction Factor from 3m to 0.5m =  $20 \cdot \log(0.5\text{m}/3\text{m}) = -15.56 \text{ dB}$

**PROCEDURE FOR 1.164 TO 1.240 GHz**

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

RBW = 120 kHz & VBW = 500 kHz were used at pre-scan.

A low pass filter with a cut off frequency of 5 GHz is used to suppress the fundamental and perform measurement for 1.164 – 1.240 GHz.

Distance Correction Factor from 3m to 0.5m =  $20 \cdot \log(0.5\text{m}/3\text{m}) = -15.56 \text{ dB}$

**PROCEDURE FOR 1.559 TO 1.610 GHz**

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

RBW = 120 kHz & VBW = 500 kHz were used at pre-scan.

A low pass filter with a cut off frequency of 5 GHz is used to suppress the fundamental and perform measurement for 1.559 – 1.610 GHz.

Distance Correction Factor from 3m to 0.5m =  $20 \cdot \log(0.5\text{m}/3\text{m}) = -15.56 \text{ dB}$

**PROCEDURE FOR 18 GHz TO 40 GHz**

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 1m from the EUT.

A final test is made at any frequencies at which emissions are found. During this final scan, the antenna is kept no further from the EUT than the maximum distance calculated for each band that yields a minimum system noise floor.

Distance Correction Factor from 3m to 1m =  $20 \cdot \log(1\text{m}/3\text{m}) = -9.54 \text{ dB}$

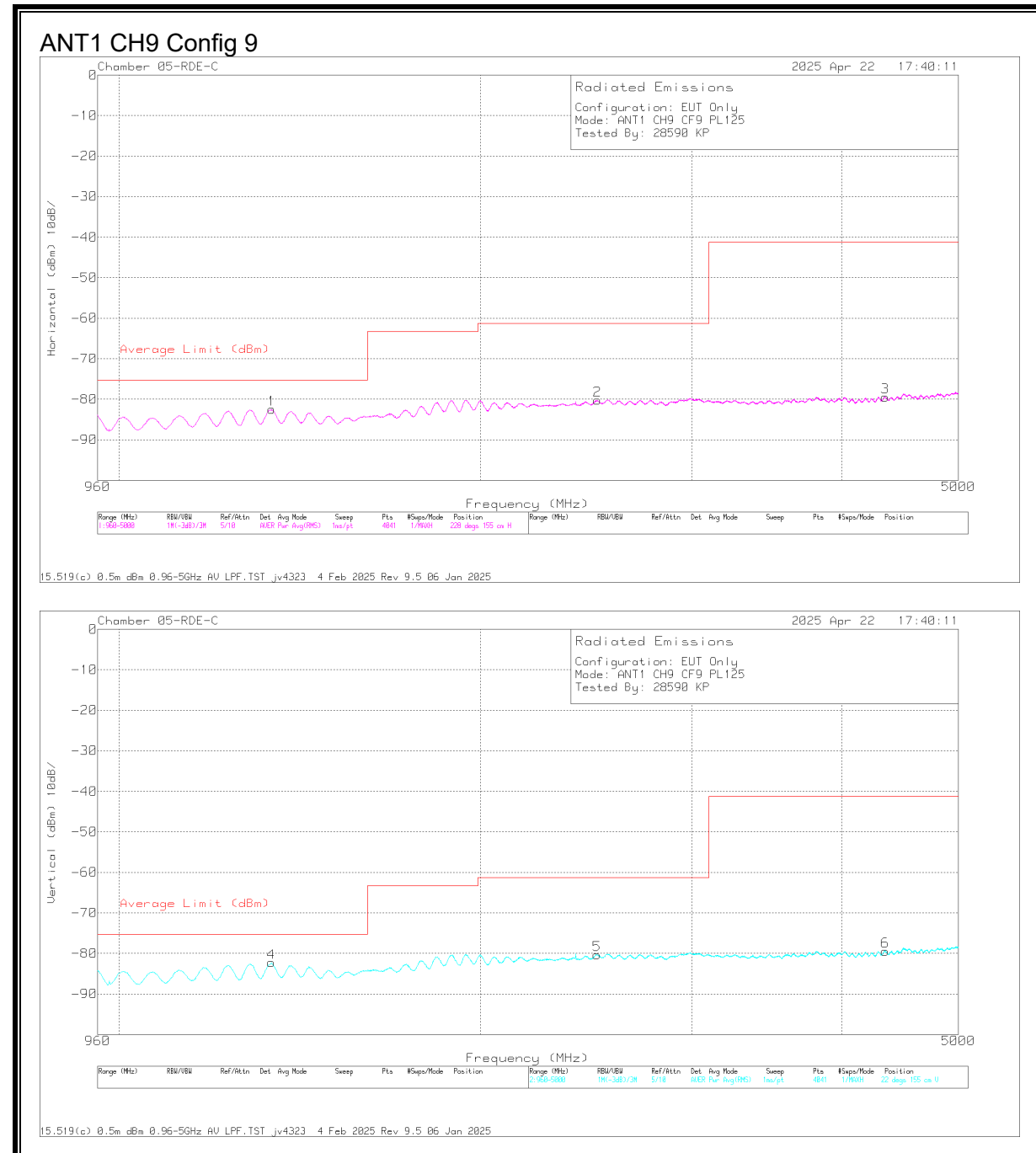
**RESULTS****Average Emissions Summary**

Employee IDs: 26051, 28590

Location: Chamber 05-RDE-C

Test Date: 4/8/2025 to 5/16/2025

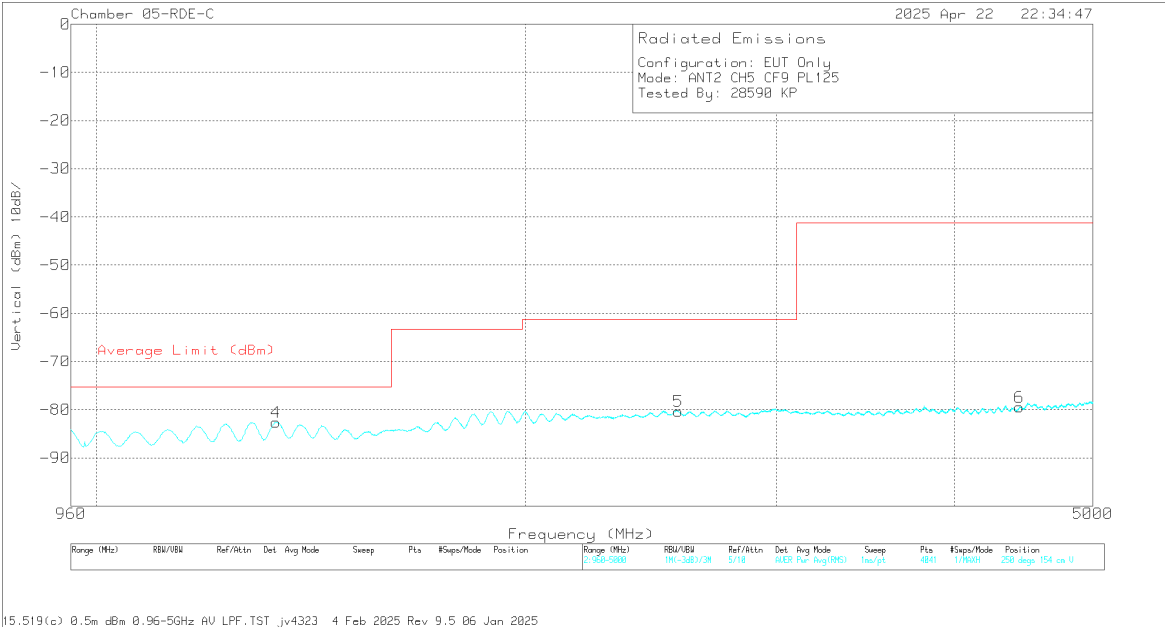
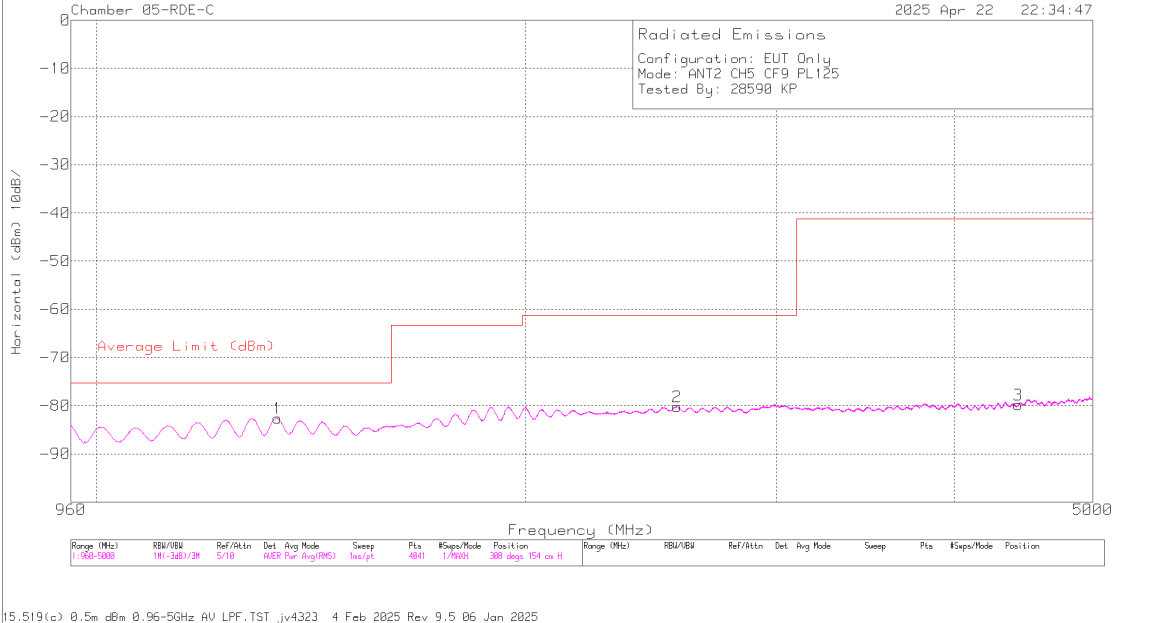
| Ant | CH | Config | Payload | Power<br>Setting | Frequency Ranges   |                    |               |               |               |
|-----|----|--------|---------|------------------|--------------------|--------------------|---------------|---------------|---------------|
|     |    |        |         |                  | 1164 - 1240<br>MHz | 1559 - 1610<br>MHz | 0.96 - 18 GHz | 18 - 26.5 GHz | 26.5 - 40 GHz |
| 1   | 9  | 9      | 125     | Max              | PASS               | PASS               | PASS          | PASS          | PASS          |
| 2   | 5  | 9      | 125     | Max              | PASS               | PASS               | PASS          | PASS          | PASS          |
| 2   | 9  | 9      | 125     | Max              | PASS               | PASS               | PASS          | PASS          | PASS          |

**9.6.1. AVERAGE EMISSIONS, 0.96 – 5 GHz****FCC15.519 (C)****Trace Markers**

| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | 230300 ACF (dBm) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | Average Limit (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|------------------|------------------|------------------------|----------------|-------------------------|---------------------|-------------|----------------|-------------|----------|
| 4      | 1339            | -57.49              | RMS | 29.3             | -15.6            | 11.8                   | -50.3          | -82.29                  | -75.3               | -6.99       | 132            | 155         | V        |
| 1      | 1340            | -57.83              | RMS | 29.3             | -15.6            | 11.8                   | -50.2          | -82.53                  | -75.3               | -7.23       | 52             | 155         | H        |
| 5      | 2500.5          | -58.7               | RMS | 32.9             | -15.6            | 11.8                   | -50.7          | -80.3                   | -61.3               | -19.00      | 308            | 155         | V        |
| 2      | 2502            | -58.62              | RMS | 32.9             | -15.6            | 11.8                   | -50.7          | -80.22                  | -61.3               | -18.92      | 96             | 155         | H        |
| 3      | 4346            | -61.43              | RMS | 34.2             | -15.6            | 11.8                   | -48.4          | -79.43                  | -41.3               | -38.13      | 316            | 155         | H        |
| 6      | 4346            | -61.41              | RMS | 34.2             | -15.6            | 11.8                   | -48.4          | -79.41                  | -41.3               | -38.11      | 0              | 155         | V        |

RMS - RMS detection

ANT2 CH5 Config 9

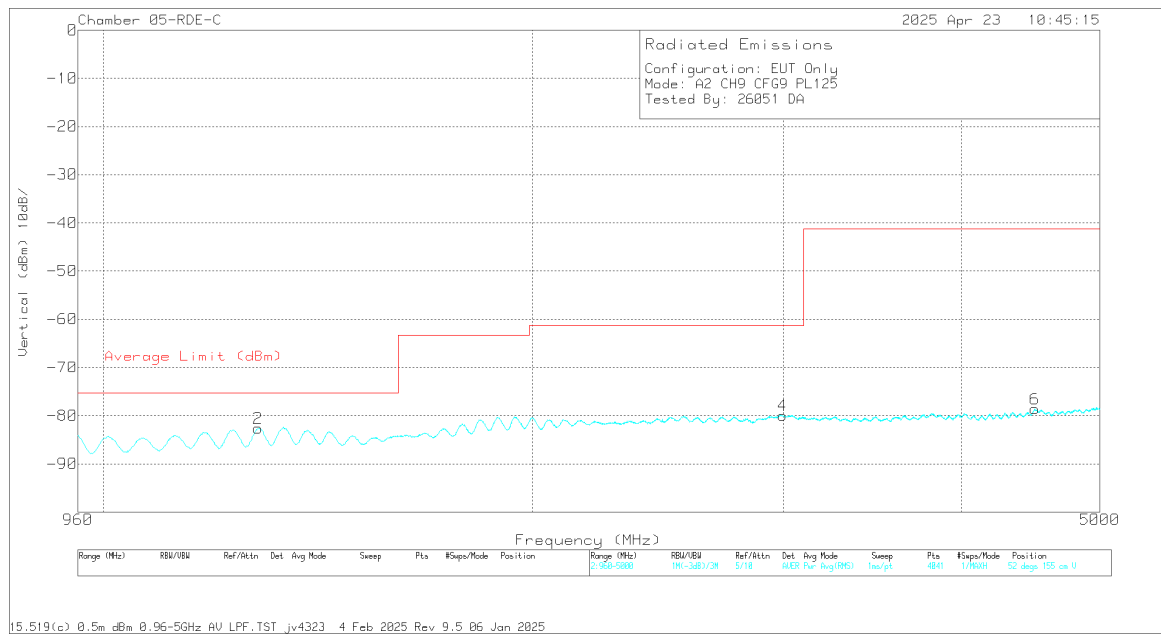
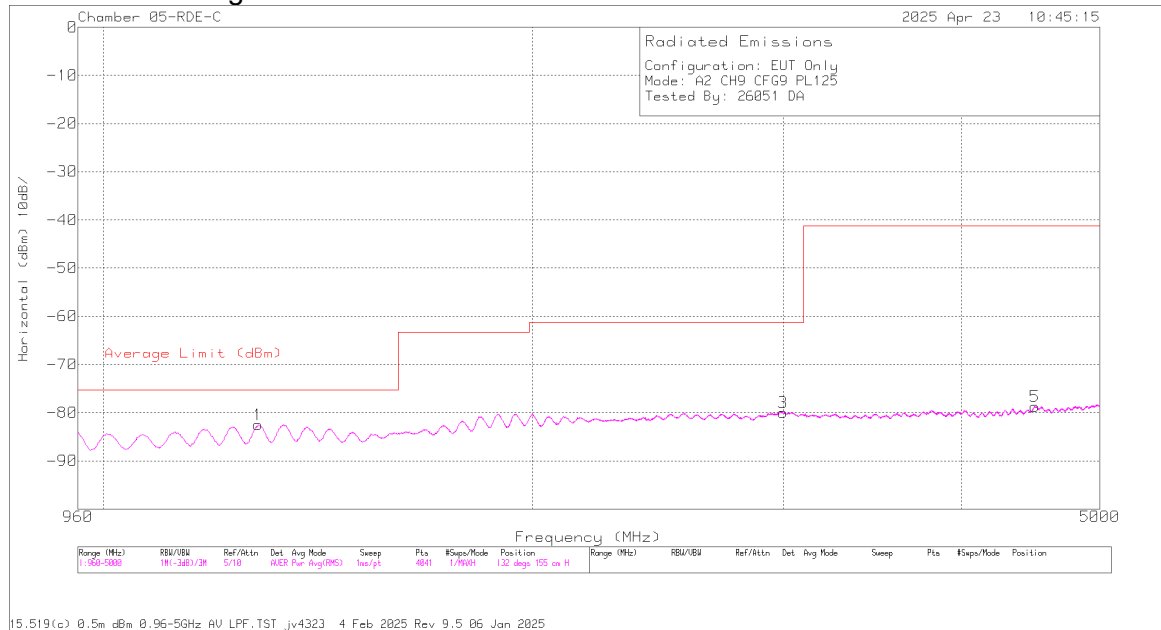


Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | Average Limit (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|---------------------|-------------|----------------|-------------|----------|
| 4      | 1337            | -57.77              | RMS | 29.3              | -15.6            | 11.8                   | -50.3          | -82.57                  | -75.3               | -7.27       | 272            | 154         | V        |
| 1      | 1340            | -57.88              | RMS | 29.3              | -15.6            | 11.8                   | -50.2          | -82.58                  | -75.3               | -7.28       | 110            | 154         | H        |
| 2      | 2555            | -59.13              | RMS | 33                | -15.6            | 11.8                   | -50.3          | -80.23                  | -61.3               | -18.93      | 220            | 154         | H        |
| 5      | 2560            | -59.28              | RMS | 33                | -15.6            | 11.8                   | -50.3          | -80.38                  | -61.3               | -19.08      | 338            | 154         | V        |
| 3      | 4433            | -62.35              | RMS | 34.3              | -15.6            | 11.8                   | -48            | -79.85                  | -41.3               | -38.55      | 198            | 154         | H        |
| 6      | 4442            | -61.91              | RMS | 34.3              | -15.6            | 11.8                   | -48.1          | -79.51                  | -41.3               | -38.21      | 52             | 154         | V        |

RMS - RMS detection

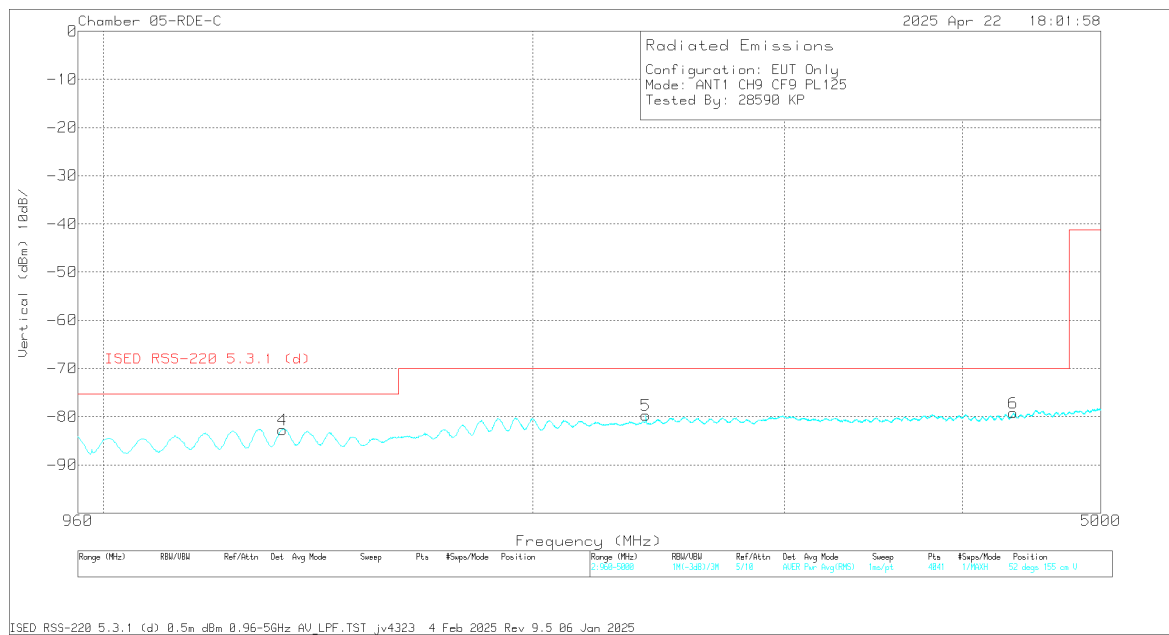
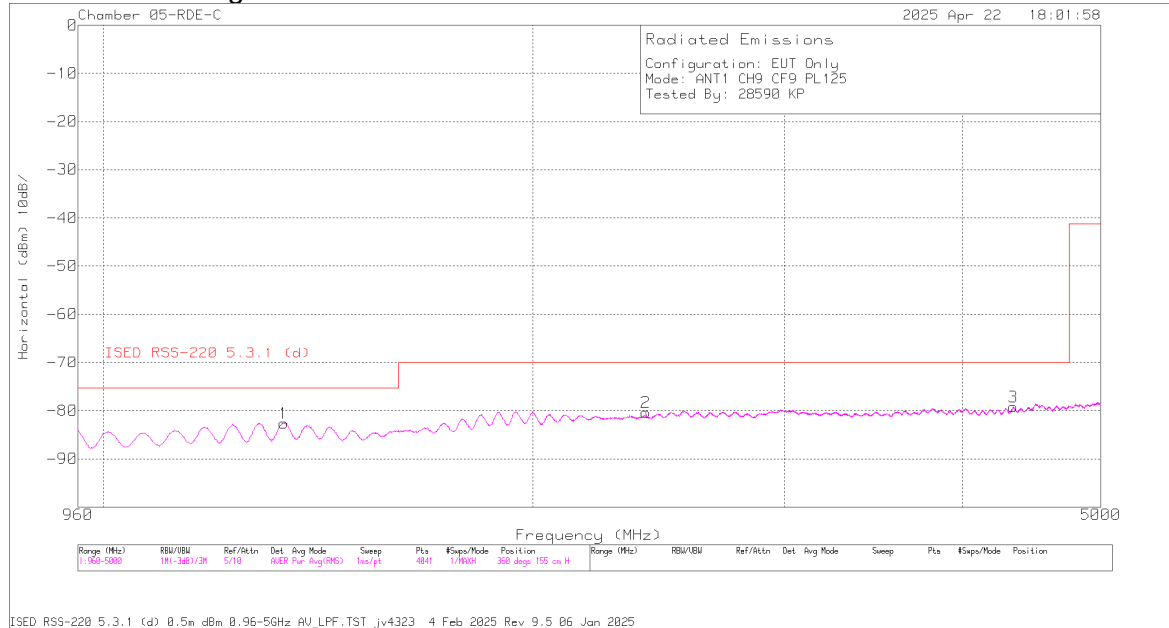
## ANT2 CH9 Config 9



## Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | Average Limit (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|---------------------|-------------|----------------|-------------|----------|
| 1      | 1284            | -58.02              | RMS | 29.4              | -15.6            | 11.8                   | -50.1          | -82.52                  | -75.3               | -7.22       | 198            | 155         | H        |
| 2      | 1284            | -58.1               | RMS | 29.4              | -15.6            | 11.8                   | -50.1          | -82.6                   | -75.3               | -7.3        | 118            | 155         | V        |
| 4      | 2996            | -60.16              | RMS | 33.4              | -15.6            | 11.8                   | -49.4          | -79.96                  | -61.3               | -18.66      | 250            | 155         | V        |
| 3      | 2997            | -60.17              | RMS | 33.4              | -15.6            | 11.8                   | -49.4          | -79.97                  | -61.3               | -18.67      | 66             | 155         | H        |
| 5      | 4501            | -60.88              | RMS | 34.4              | -15.6            | 11.8                   | -48.4          | -78.68                  | -41.3               | -37.38      | 66             | 155         | H        |
| 6      | 4501            | -60.83              | RMS | 34.4              | -15.6            | 11.8                   | -48.4          | -78.63                  | -41.3               | -37.33      | 250            | 155         | V        |

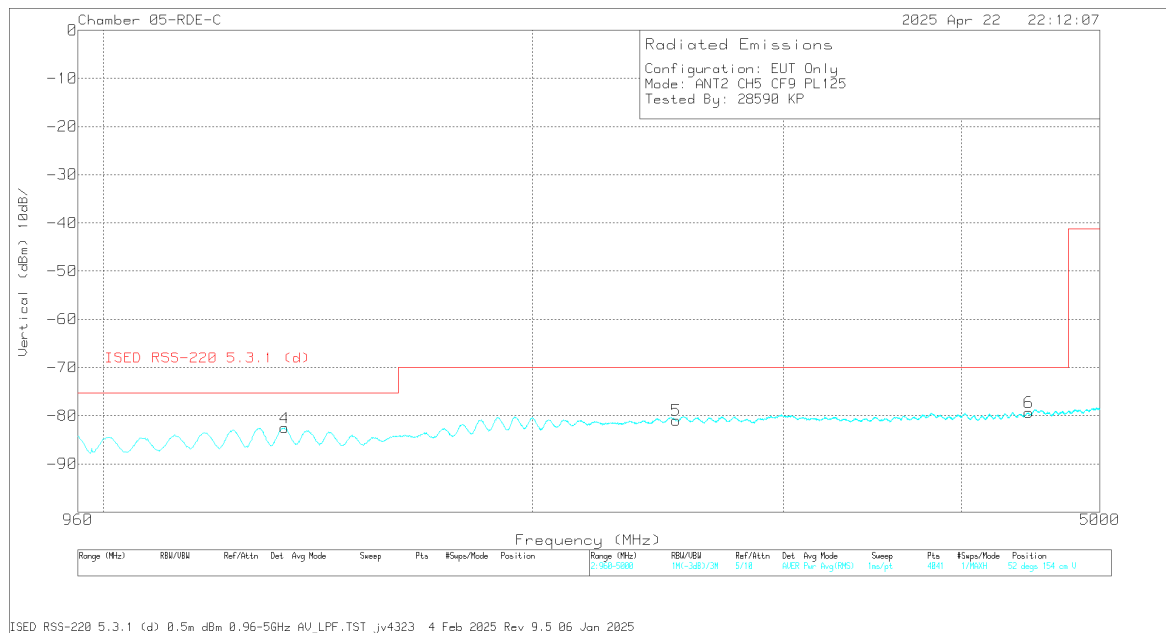
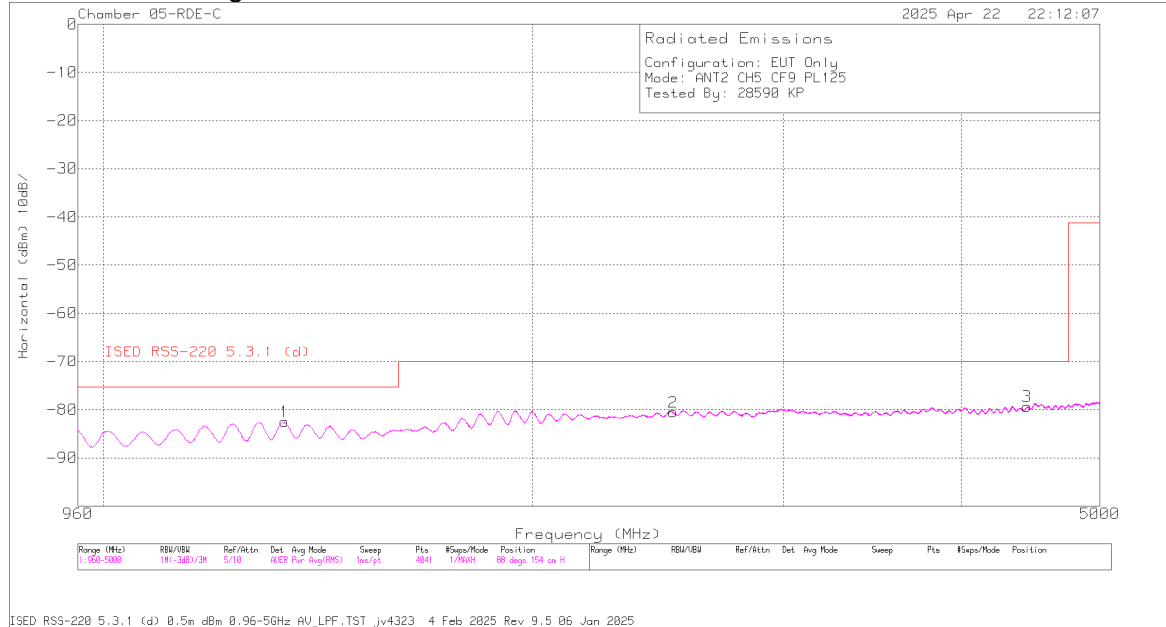
RMS - RMS detection

**RSS-220 5.3.1 (d)****ANT1 CH9 Config 9****Trace Markers**

| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | ISED RSS-220 5.3.1 (d) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|------------------------|-------------|----------------|-------------|----------|
| 4      | 1335            | -58.02              | RMS | 29.3              | -15.6            | 11.8                   | -50.2          | -82.72                  | -75.3                  | -7.42       | 30             | 155         | V        |
| 1      | 1338            | -57.83              | RMS | 29.3              | -15.6            | 11.8                   | -50.3          | -82.63                  | -75.3                  | -7.33       | 316            | 155         | H        |
| 2      | 2400            | -58.35              | RMS | 32.6              | -15.6            | 11.8                   | -50.8          | -80.35                  | -70                    | -10.35      | 339            | 155         | H        |
| 5      | 2400            | -57.71              | RMS | 32.6              | -15.6            | 11.8                   | -50.8          | -79.71                  | -70                    | -9.71       | 184            | 155         | V        |
| 3      | 4340            | -61.23              | RMS | 34.2              | -15.6            | 11.8                   | -48.4          | -79.23                  | -70                    | -9.23       | 360            | 155         | H        |
| 6      | 4343            | -61.16              | RMS | 34.2              | -15.6            | 11.8                   | -48.5          | -79.26                  | -70                    | -9.26       | 162            | 155         | V        |

RMS - RMS detection

## ANT2 CH5 Config 9

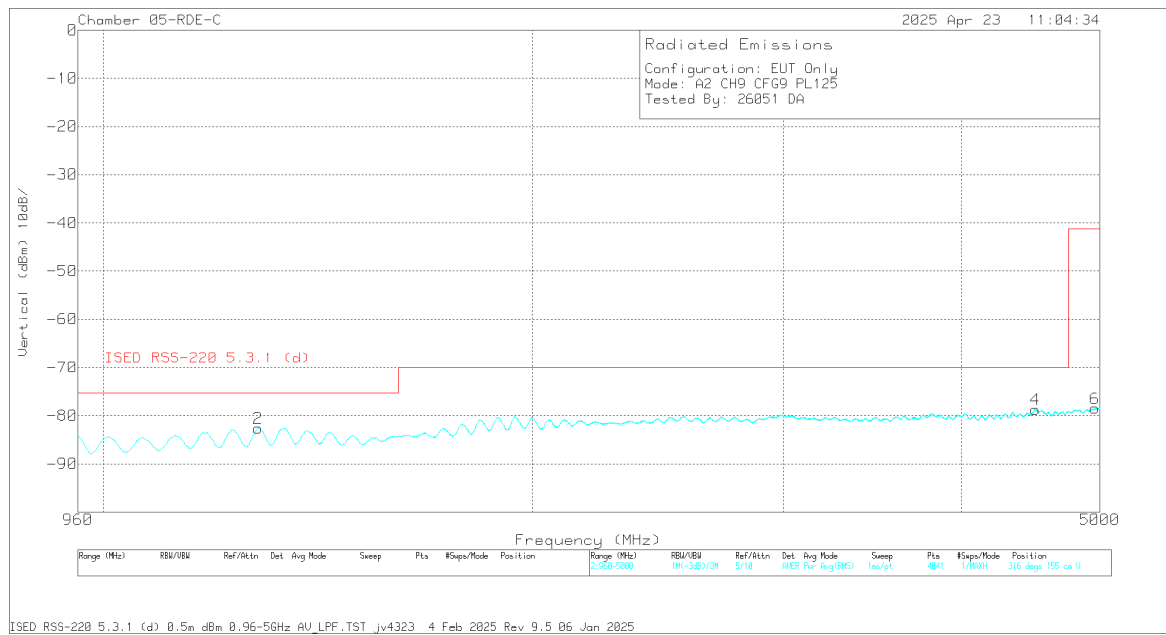
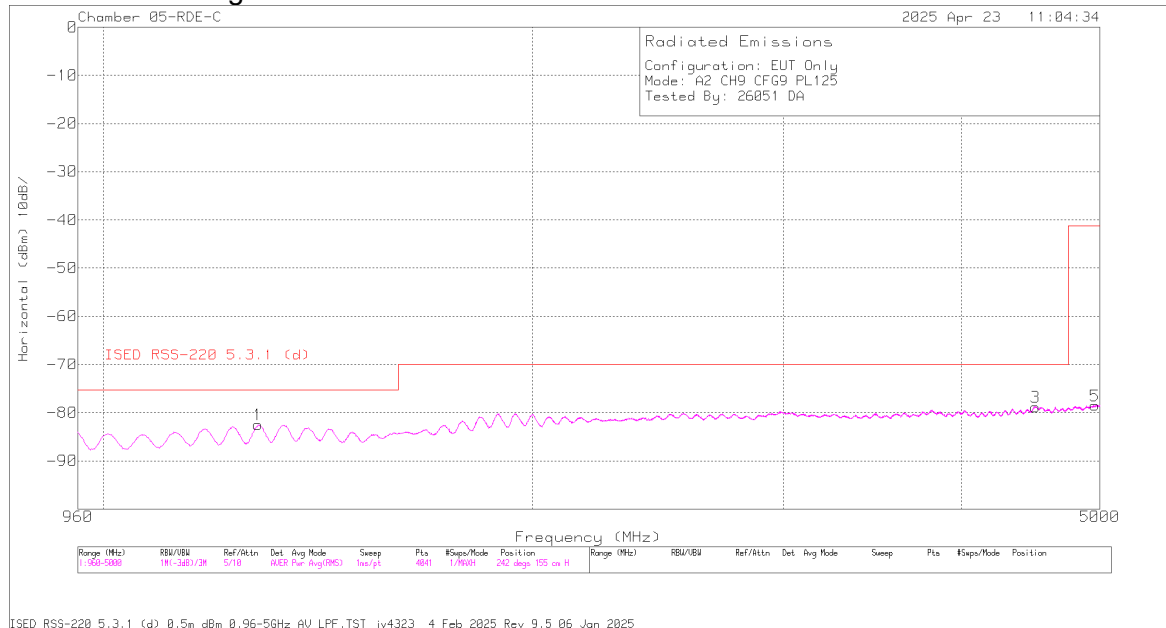


## Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | ISED RSS-220 5.3.1 (d) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|------------------------|-------------|----------------|-------------|----------|
| 1      | 1340            | -57.82              | RMS | 29.3              | -15.6            | 11.8                   | -50.2          | -82.52                  | -75.3                  | -7.22       | 22             | 154         | H        |
| 4      | 1340            | -57.85              | RMS | 29.3              | -15.6            | 11.8                   | -50.2          | -82.55                  | -75.3                  | -7.25       | 316            | 154         | V        |
| 2      | 2510            | -59.03              | RMS | 32.9              | -15.6            | 11.8                   | -50.6          | -80.53                  | -70                    | -10.53      | 220            | 154         | H        |
| 5      | 2523            | -59.57              | RMS | 32.9              | -15.6            | 11.8                   | -50.5          | -80.97                  | -70                    | -10.97      | 338            | 154         | V        |
| 3      | 4445            | -61.75              | RMS | 34.3              | -15.6            | 11.8                   | -48.1          | -79.35                  | -70                    | -9.35       | 264            | 154         | H        |
| 6      | 4456            | -61.76              | RMS | 34.4              | -15.6            | 11.8                   | -48.2          | -79.36                  | -70                    | -9.36       | 294            | 154         | V        |

RMS - RMS detection

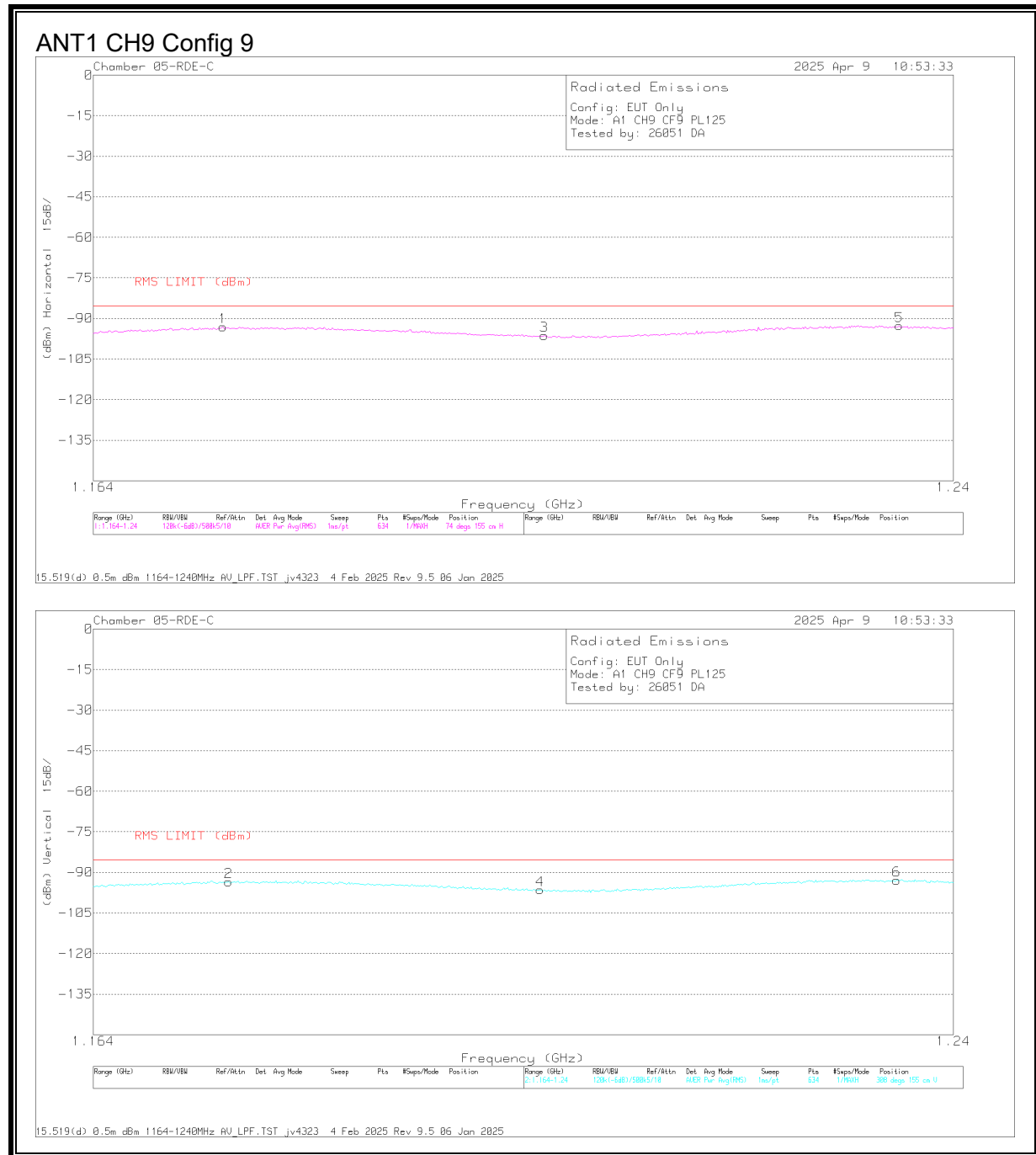
## ANT2 CH9 Config 9



## Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | 230300 ACF (dBm) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | ISED RSS-220 5.3.1 (d) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|------------------|------------------|------------------------|----------------|-------------------------|------------------------|-------------|----------------|-------------|----------|
| 1      | 1284            | -58.01              | RMS | 29.4             | -15.6            | 11.8                   | -50.1          | -82.51                  | -75.3                  | -7.21       | 132            | 155         | H        |
| 2      | 1284            | -58.12              | RMS | 29.4             | -15.6            | 11.8                   | -50.1          | -82.62                  | -75.3                  | -7.32       | 206            | 155         | V        |
| 3      | 4506            | -60.79              | RMS | 34.4             | -15.6            | 11.8                   | -48.6          | -78.79                  | -70                    | -8.79       | 66             | 155         | H        |
| 4      | 4507            | -60.71              | RMS | 34.4             | -15.6            | 11.8                   | -48.6          | -78.71                  | -70                    | -8.71       | 118            | 155         | V        |
| 5      | 4960            | -60.52              | RMS | 34.6             | -15.6            | 11.8                   | -48.8          | -78.52                  | -41.3                  | -37.22      | 110            | 155         | H        |
| 6      | 4961            | -60.51              | RMS | 34.6             | -15.6            | 11.8                   | -48.8          | -78.51                  | -41.3                  | -37.21      | 272            | 155         | V        |

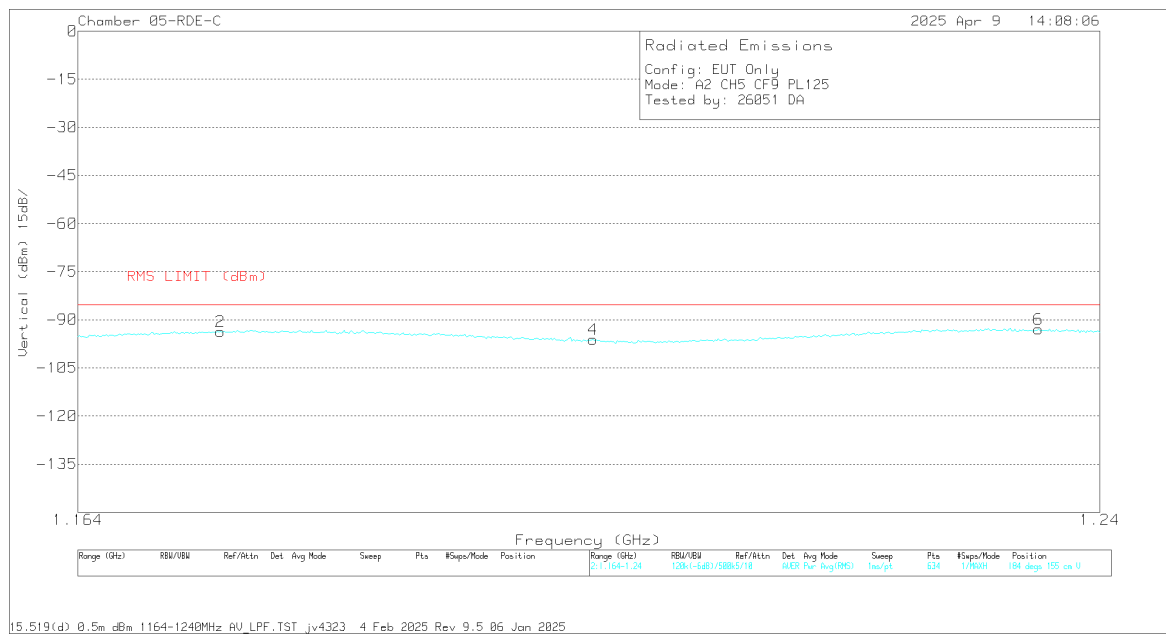
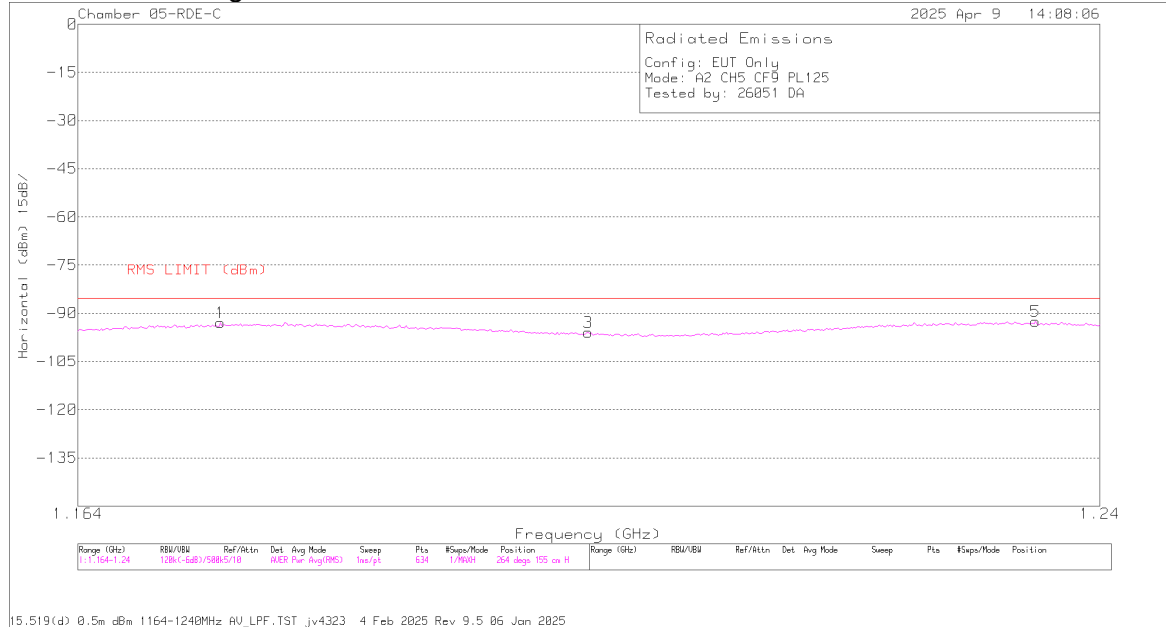
RMS - RMS detection

**9.6.2. AVERAGE EMISSIONS, 1.164 – 1.240 GHz****Trace Markers**

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | RMS LIMIT (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 1.175166        | -67.7               | RMS | 28.6              | -15.6            | 11.8                   | -50.2          | -93.1                   | -85.3           | -7.8        | 52             | 155         | H        |
| 3      | 1.203261        | -71.28              | RMS | 28.9              | -15.6            | 11.8                   | -50.1          | -96.28                  | -85.3           | -10.98      | 118            | 155         | H        |
| 5      | 1.235077        | -67.82              | RMS | 29.2              | -15.6            | 11.8                   | -50.2          | -92.62                  | -85.3           | -7.32       | 140            | 155         | H        |
| 2      | 1.175646        | -68.1               | RMS | 28.6              | -15.6            | 11.8                   | -50.2          | -93.5                   | -85.3           | -8.2        | 132            | 155         | V        |
| 4      | 1.2029          | -71.39              | RMS | 28.9              | -15.6            | 11.8                   | -50.11         | -96.4                   | -85.3           | -11.1       | 330            | 155         | V        |
| 6      | 1.234837        | -68.05              | RMS | 29.2              | -15.6            | 11.8                   | -50.2          | -92.85                  | -85.3           | -7.55       | 22             | 155         | V        |

RMS - RMS detection

## ANT2 CH5 Config 9

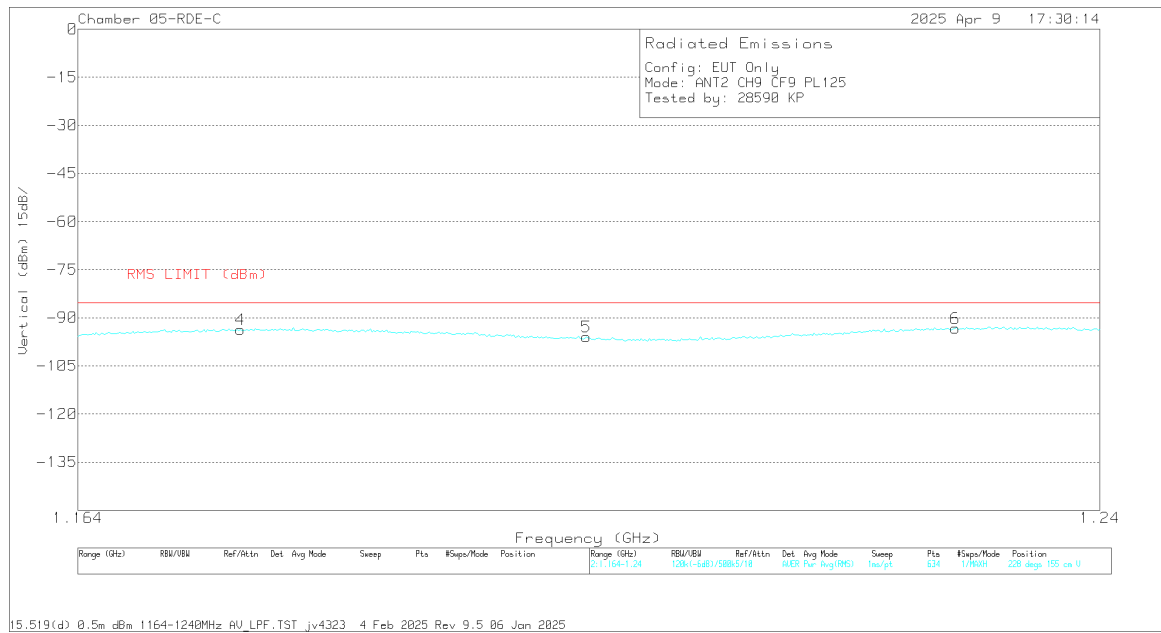
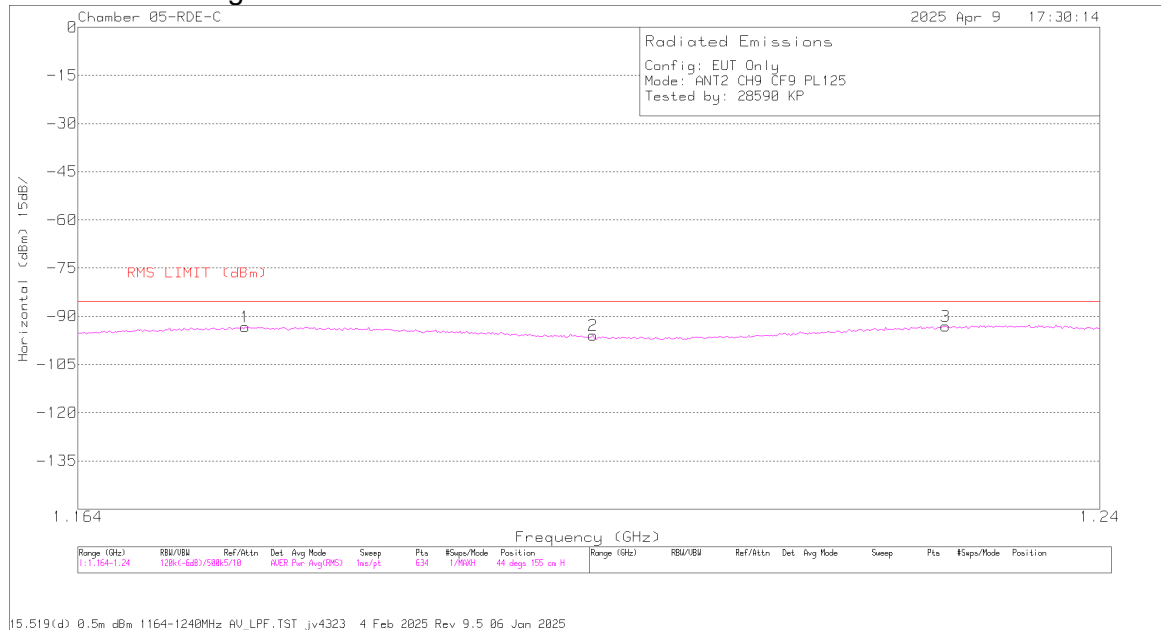


## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | RMS LIMIT (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 1.174325        | -67.53              | RMS | 28.6              | -15.6            | 11.8                   | -50.2          | -92.93                  | -85.3           | -7.63       | 22             | 155         | H        |
| 3      | 1.20134         | -70.93              | RMS | 28.9              | -15.6            | 11.8                   | -50.13         | -95.96                  | -85.3           | -10.66      | 66             | 155         | H        |
| 5      | 1.235077        | -67.75              | RMS | 29.2              | -15.6            | 11.8                   | -50.2          | -92.55                  | -85.3           | -7.25       | 242            | 155         | H        |
| 2      | 1.174325        | -68.24              | RMS | 28.6              | -15.6            | 11.8                   | -50.2          | -93.64                  | -85.3           | -8.34       | 96             | 155         | V        |
| 4      | 1.2017          | -71.11              | RMS | 28.9              | -15.6            | 11.8                   | -50.17         | -96.18                  | -85.3           | -10.88      | 52             | 155         | V        |
| 6      | 1.235317        | -68.11              | RMS | 29.2              | -15.6            | 11.8                   | -50.2          | -92.91                  | -85.3           | -7.61       | 118            | 155         | V        |

RMS - RMS detection

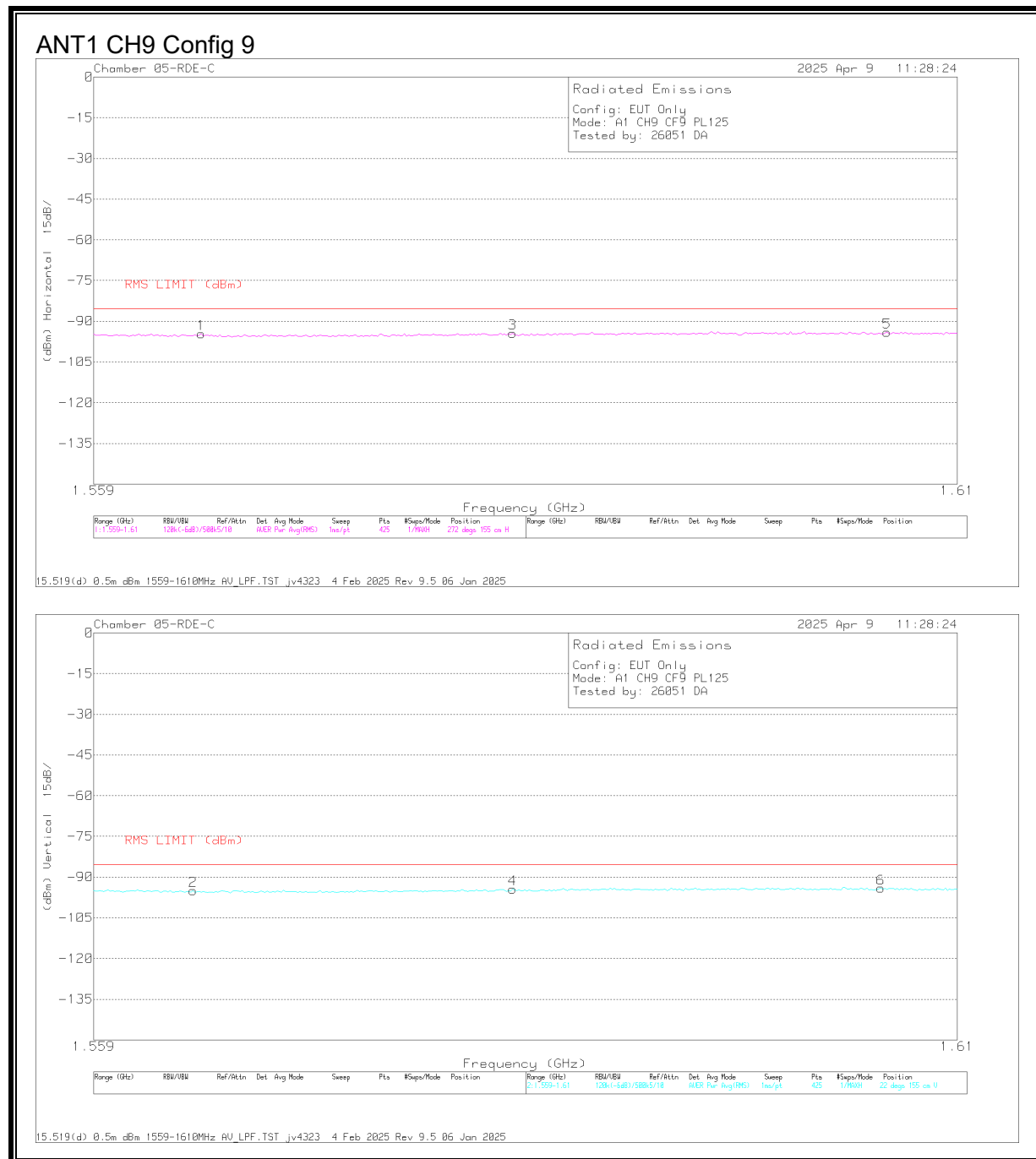
## ANT2 CH9 Config 9



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | RMS LIMIT (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 1.176126        | -67.86              | RMS | 28.6              | -15.6            | 11.8                   | -50.2          | -93.26                  | -85.3           | -7.96       | 88             | 155         | H        |
| 2      | 1.2017          | -70.79              | RMS | 28.9              | -15.6            | 11.8                   | -50.17         | -95.86                  | -85.3           | -10.56      | 22             | 155         | H        |
| 3      | 1.228234        | -68.2               | RMS | 29.1              | -15.6            | 11.8                   | -50.2          | -93.1                   | -85.3           | -7.8        | 330            | 155         | H        |
| 4      | 1.175766        | -68.24              | RMS | 28.6              | -15.6            | 11.8                   | -50.2          | -93.64                  | -85.3           | -8.34       | 163            | 155         | V        |
| 5      | 1.20122         | -70.93              | RMS | 28.9              | -15.6            | 11.8                   | -50.12         | -95.95                  | -85.3           | -10.65      | 31             | 155         | V        |
| 6      | 1.228954        | -68.44              | RMS | 29.1              | -15.6            | 11.8                   | -50.2          | -93.34                  | -85.3           | -8.04       | 360            | 155         | V        |

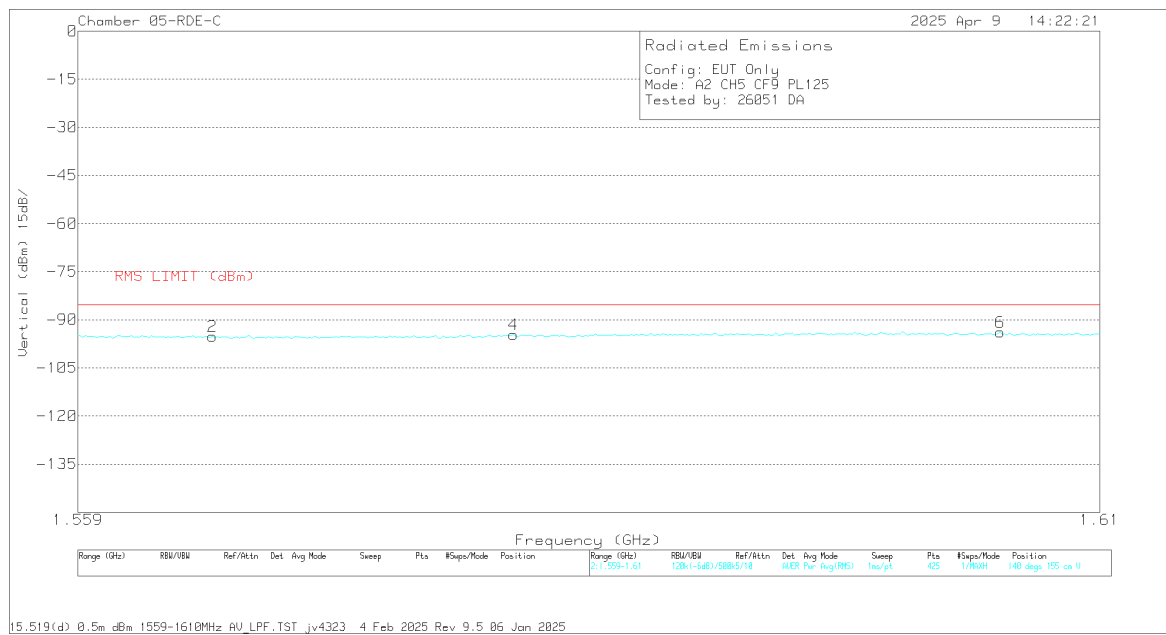
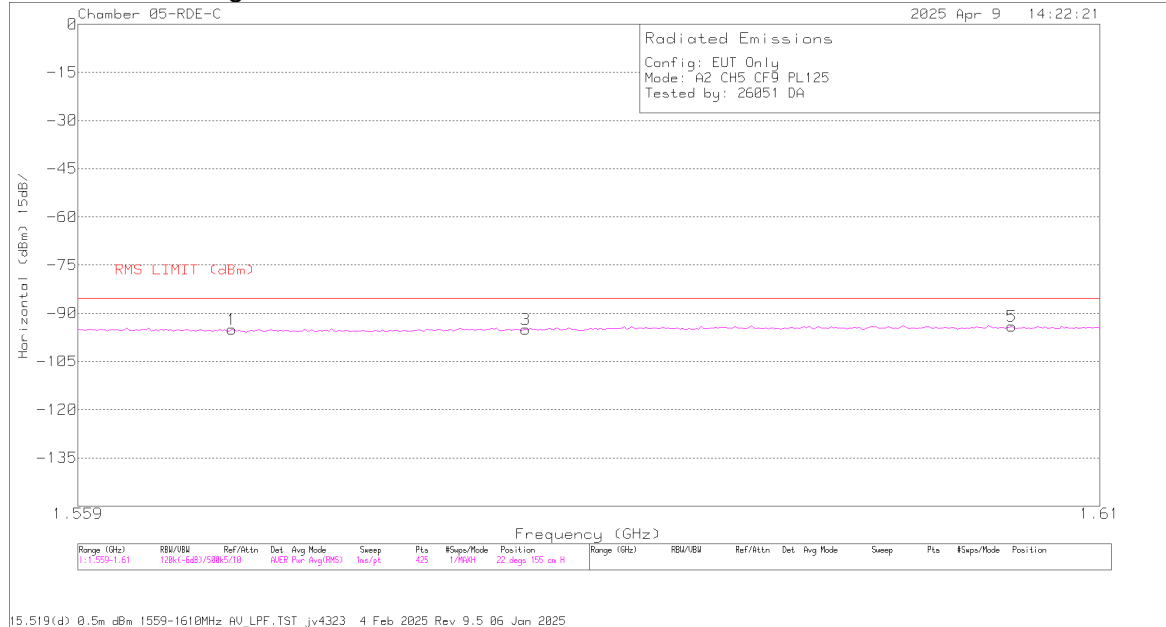
RMS - RMS detection

**9.6.3. AVERAGE EMISSIONS, 1.559 – 1.610 GHz****Trace Markers**

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | RMS LIMIT (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 1.565255        | -69.45              | RMS | 28.7              | -15.6            | 11.8                   | -50.1          | -94.65                  | -85.3           | -9.35       | 250            | 155         | H        |
| 3      | 1.583538        | -69.21              | RMS | 28.8              | -15.6            | 11.8                   | -50.15         | -94.36                  | -85.3           | -9.06       | 228            | 155         | H        |
| 5      | 1.60579         | -68.98              | RMS | 28.9              | -15.6            | 11.8                   | -50.2          | -94.08                  | -85.3           | -8.78       | 272            | 155         | H        |
| 2      | 1.564774        | -69.84              | RMS | 28.7              | -15.6            | 11.8                   | -50.1          | -95.04                  | -85.3           | -9.74       | 264            | 155         | V        |
| 4      | 1.583538        | -69.28              | RMS | 28.8              | -15.6            | 11.8                   | -50.15         | -94.43                  | -85.3           | -9.13       | 44             | 155         | V        |
| 6      | 1.605429        | -69.02              | RMS | 28.9              | -15.6            | 11.8                   | -50.2          | -94.12                  | -85.3           | -8.82       | 330            | 155         | V        |

RMS - RMS detection

## ANT2 CH5 Config 9

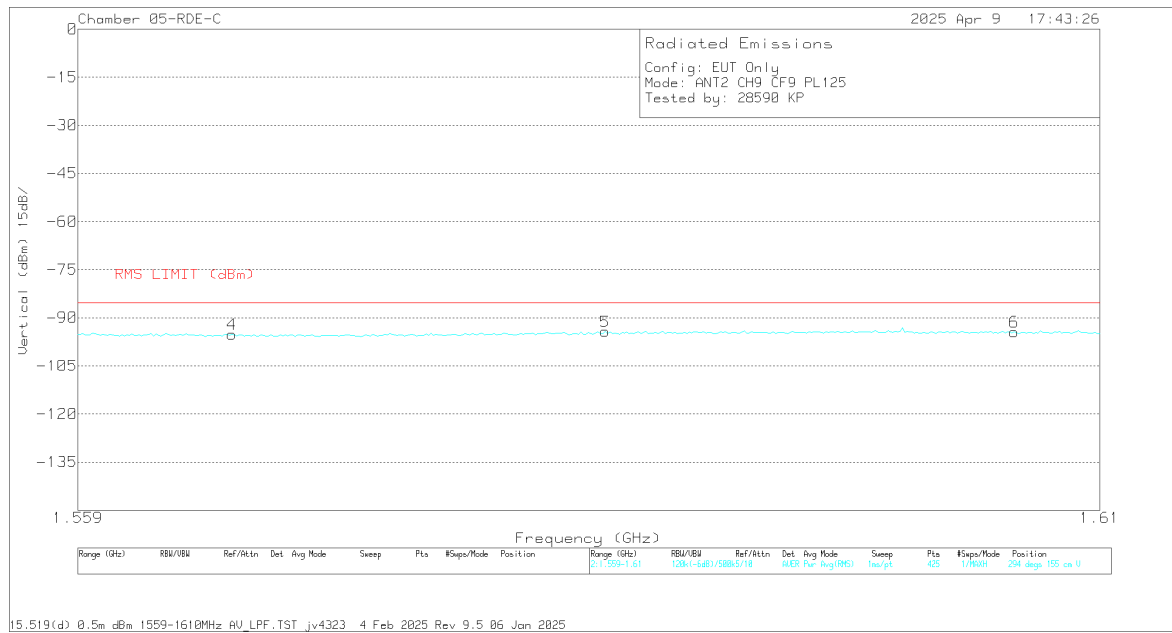
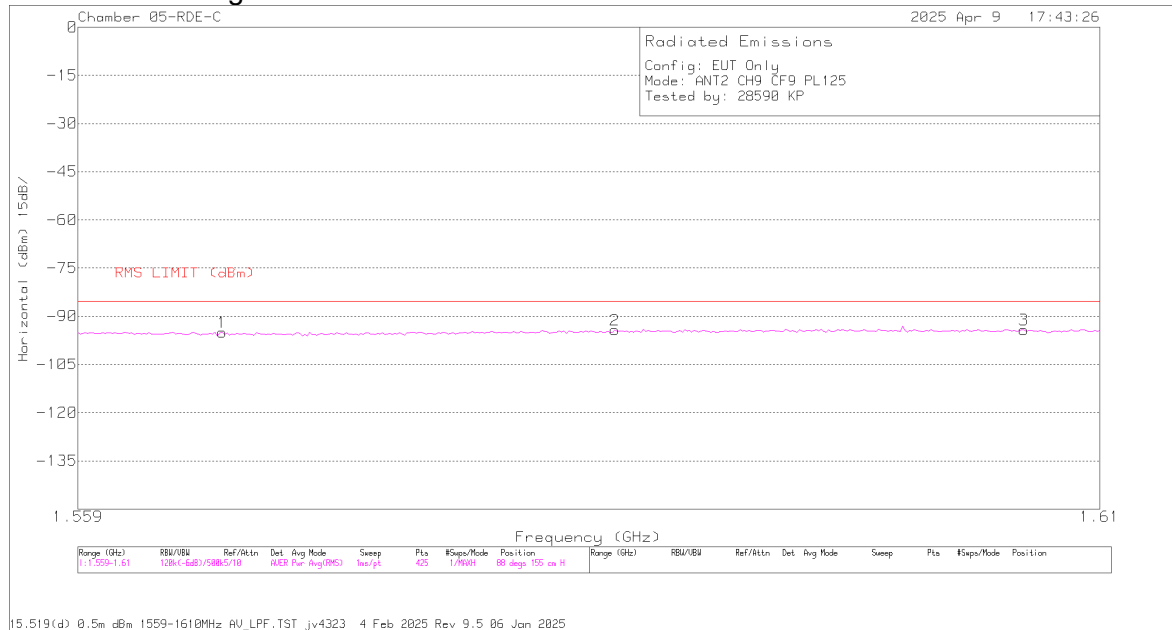


## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | RMS LIMIT (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 1.174325        | -67.53              | RMS | 28.6              | -15.6            | 11.8                   | -50.2          | -92.93                  | -85.3           | -7.63       | 22             | 155         | H        |
| 3      | 1.20134         | -70.93              | RMS | 28.9              | -15.6            | 11.8                   | -50.13         | -95.96                  | -85.3           | -10.66      | 66             | 155         | H        |
| 5      | 1.235077        | -67.75              | RMS | 29.2              | -15.6            | 11.8                   | -50.2          | -92.55                  | -85.3           | -7.25       | 242            | 155         | H        |
| 2      | 1.174325        | -68.24              | RMS | 28.6              | -15.6            | 11.8                   | -50.2          | -93.64                  | -85.3           | -8.34       | 96             | 155         | V        |
| 4      | 1.2017          | -71.11              | RMS | 28.9              | -15.6            | 11.8                   | -50.17         | -96.18                  | -85.3           | -10.88      | 52             | 155         | V        |
| 6      | 1.235317        | -68.11              | RMS | 29.2              | -15.6            | 11.8                   | -50.2          | -92.91                  | -85.3           | -7.61       | 118            | 155         | V        |

RMS - RMS detection

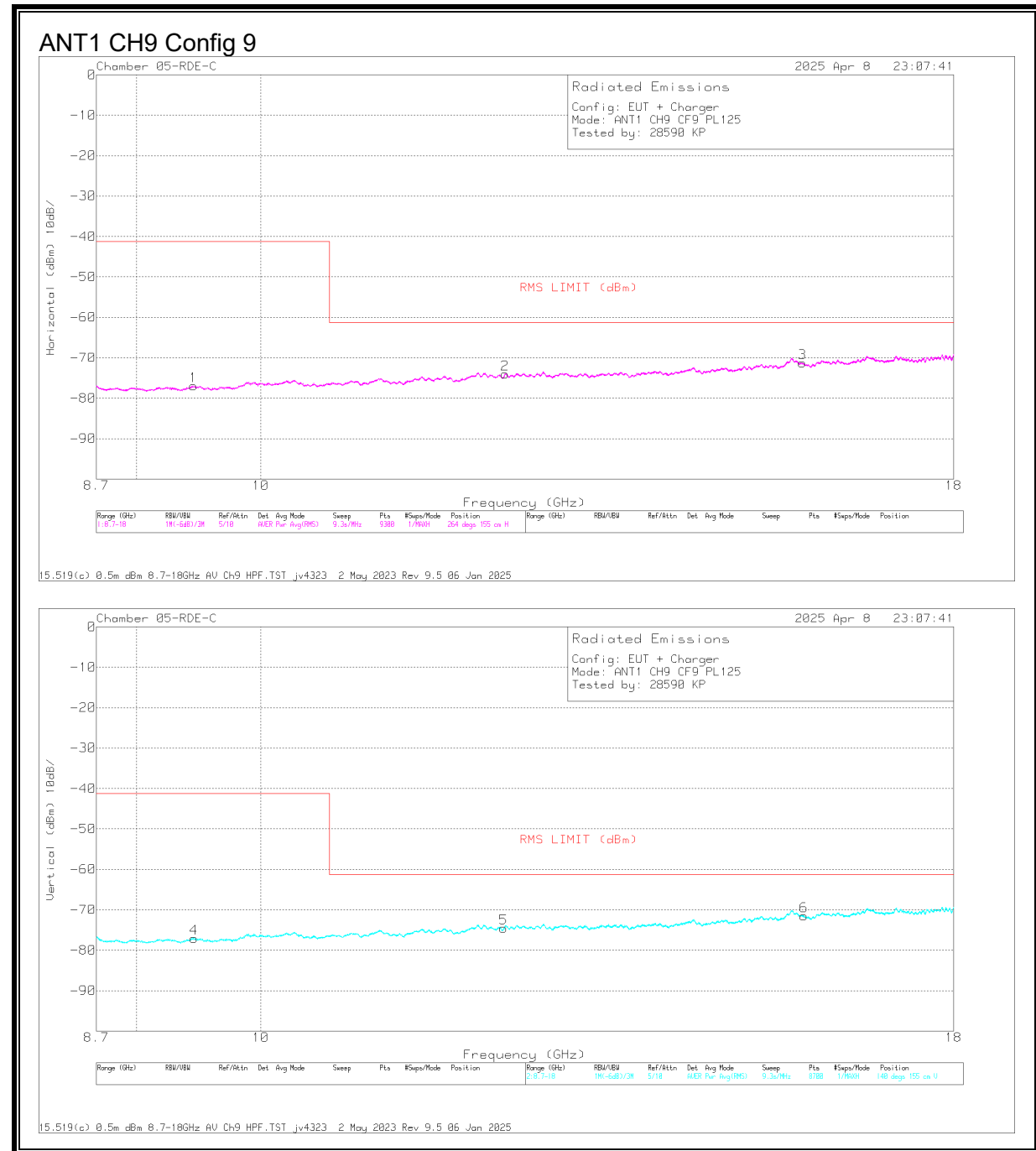
## ANT2 CH9 Config 9



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | RMS LIMIT (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 1.176126        | -67.86              | RMS | 28.6              | -15.6            | 11.8                   | -50.2          | -93.26                  | -85.3           | -7.96       | 88             | 155         | H        |
| 2      | 1.2017          | -70.79              | RMS | 28.9              | -15.6            | 11.8                   | -50.17         | -95.86                  | -85.3           | -10.56      | 22             | 155         | H        |
| 3      | 1.228234        | -68.2               | RMS | 29.1              | -15.6            | 11.8                   | -50.2          | -93.1                   | -85.3           | -7.8        | 330            | 155         | H        |
| 4      | 1.175766        | -68.24              | RMS | 28.6              | -15.6            | 11.8                   | -50.2          | -93.64                  | -85.3           | -8.34       | 163            | 155         | V        |
| 5      | 1.20122         | -70.93              | RMS | 28.9              | -15.6            | 11.8                   | -50.12         | -95.95                  | -85.3           | -10.65      | 31             | 155         | V        |
| 6      | 1.228954        | -68.44              | RMS | 29.1              | -15.6            | 11.8                   | -50.2          | -93.34                  | -85.3           | -8.04       | 360            | 155         | V        |

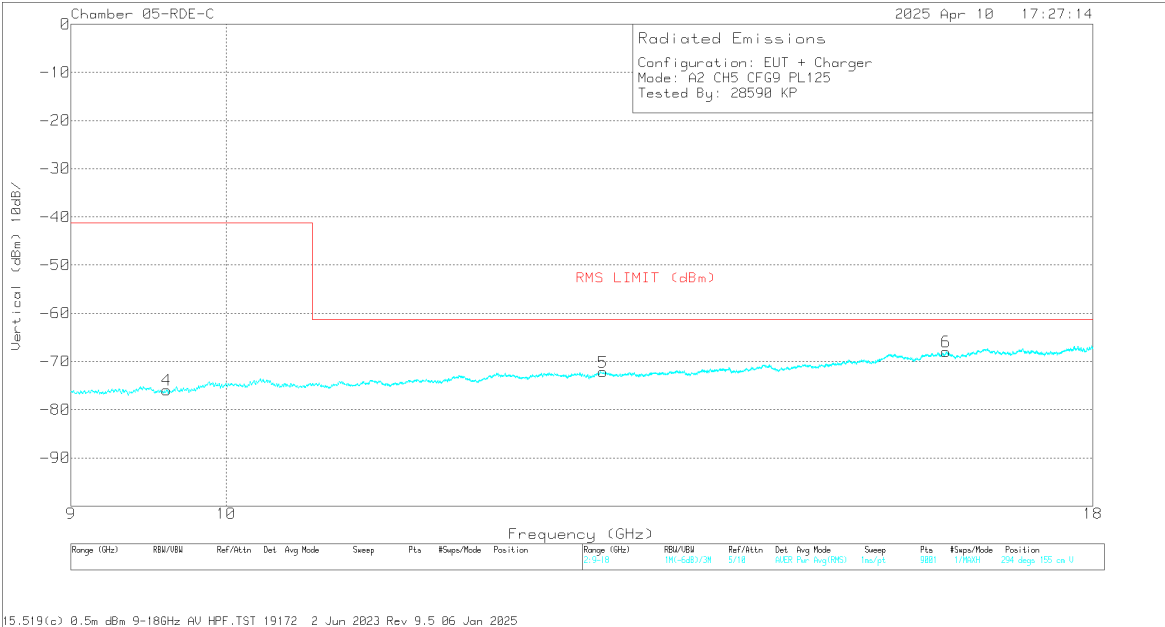
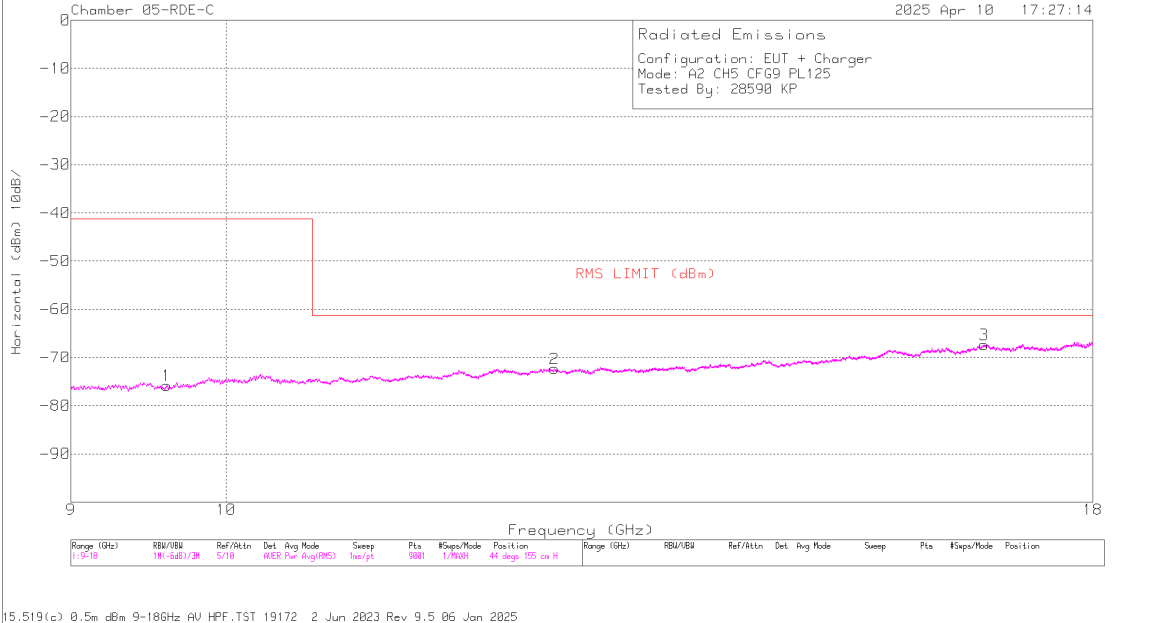
RMS - RMS detection

**9.6.4. AVERAGE EMISSIONS, 9 – 18 GHz****Trace Markers**

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | RMS LIMIT (dBm) | Margin (dB) | Azimuth (Dege) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 9.447081        | -63.38              | RMS | 36.6              | -15.6            | 11.8                   | -46.31         | -76.89                  | -41.3           | -35.59      | 242            | 155         | H        |
| 2      | 12.302389       | -65                 | RMS | 39                | -15.6            | 11.8                   | -44.2          | -74                     | -61.3           | -12.7       | 220            | 155         | H        |
| 3      | 15.830777       | -62.83              | RMS | 40.6              | -15.6            | 11.8                   | -45.22         | -71.25                  | -61.3           | -9.95       | 0              | 155         | H        |
| 4      | 9.451569        | -63.42              | RMS | 36.6              | -15.6            | 11.8                   | -46.46         | -77.08                  | -41.3           | -35.78      | 360            | 155         | V        |
| 5      | 12.289998       | -64.93              | RMS | 39                | -15.6            | 11.8                   | -44.8          | -74.53                  | -61.3           | -13.23      | 360            | 155         | V        |
| 6      | 15.853268       | -62.65              | RMS | 40.6              | -15.6            | 11.8                   | -45.63         | -71.48                  | -61.3           | -10.18      | 360            | 155         | V        |

RMS - RMS detection

ANT2 CH5 Config 9

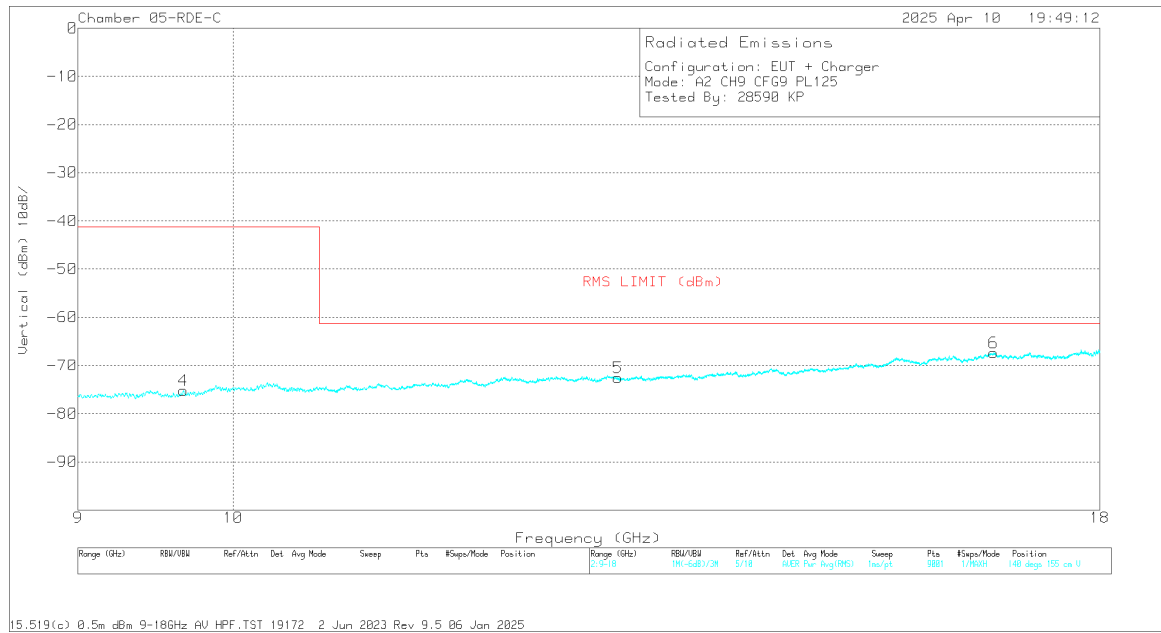
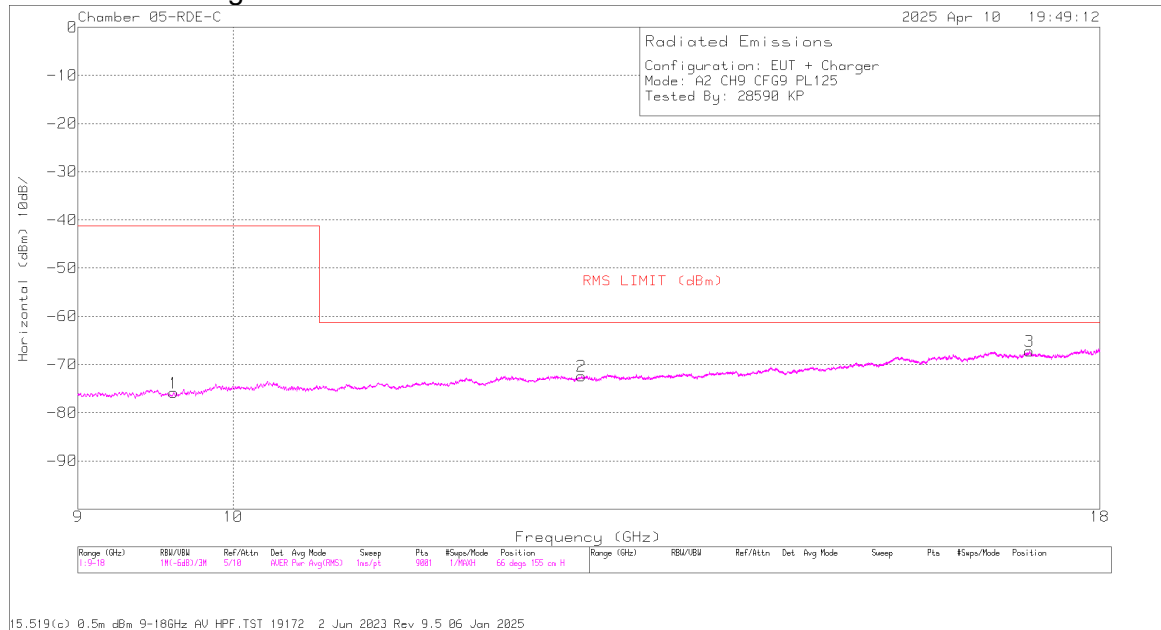


Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | RMS LIMIT (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 9.604           | -63.54              | RMS | 36.7              | -15.6            | 11.8                   | -45.12         | -75.76                  | -41.3           | -34.46      | 264            | 155         | H        |
| 4      | 9.604           | -63.66              | RMS | 36.7              | -15.6            | 11.8                   | -45.12         | -75.88                  | -41.3           | -34.58      | 316            | 155         | V        |
| 2      | 12.495          | -64.17              | RMS | 39                | -15.6            | 11.8                   | -43.36         | -72.33                  | -61.3           | -11.03      | 220            | 155         | H        |
| 5      | 12.914          | -63.58              | RMS | 39.1              | -15.6            | 11.8                   | -43.93         | -72.21                  | -61.3           | -10.91      | 30             | 155         | V        |
| 6      | 16.296          | -62.01              | RMS | 40.8              | -15.6            | 11.8                   | -42.95         | -67.96                  | -61.3           | -6.66       | 52             | 155         | V        |
| 3      | 16.719          | -62.16              | RMS | 41.4              | -15.6            | 11.8                   | -42.83         | -67.39                  | -61.3           | -6.09       | 176            | 155         | H        |

RMS - RMS detection

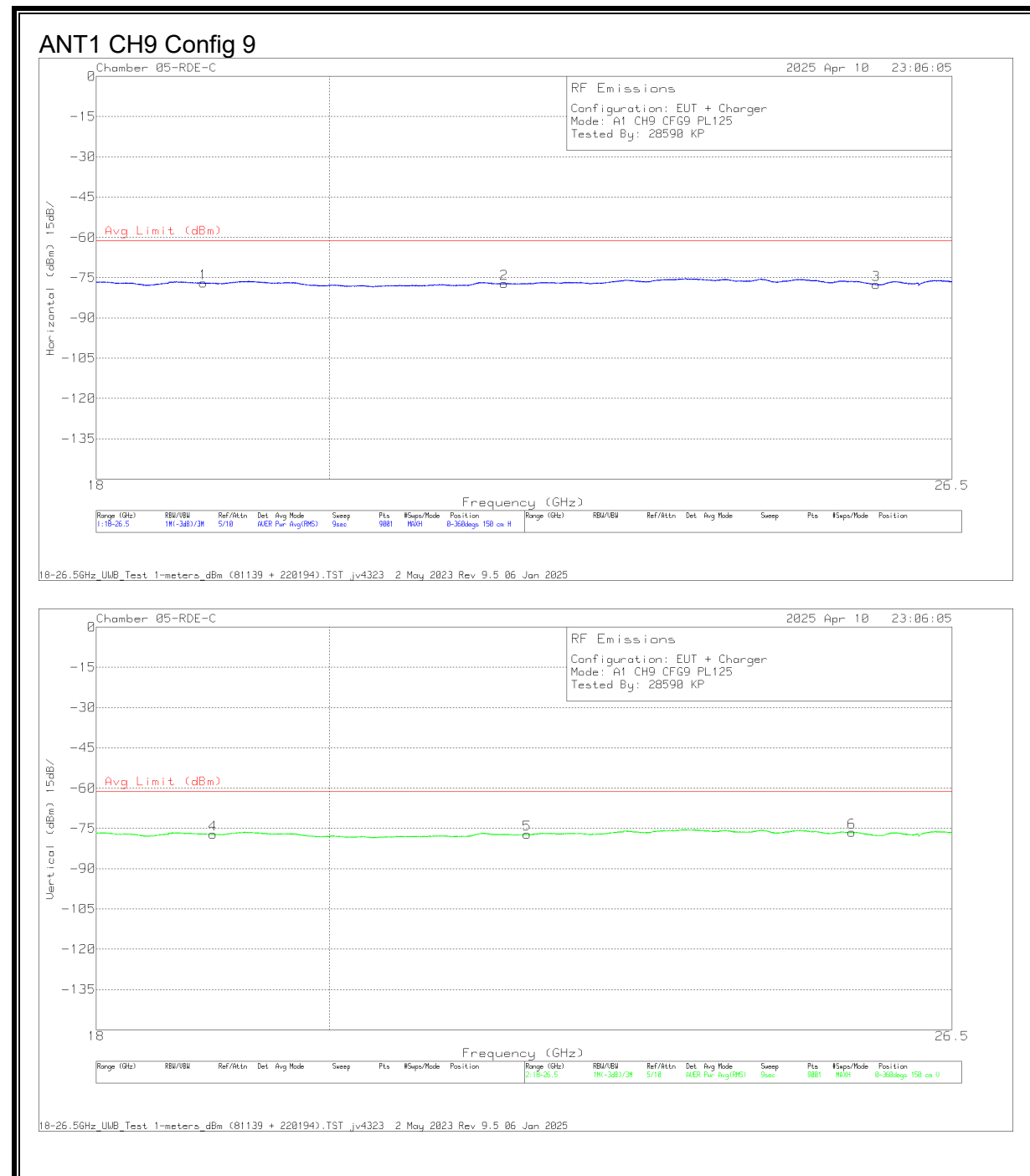
## ANT2 CH9 Config 9



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 230300 ACF (dB/m) | Dist. Corr. (dB) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading (dBm) | RMS LIMIT (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-------------------|------------------|------------------------|----------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 9.604           | -63.65              | RMS | 36.7              | -15.6            | 11.8                   | -45.12         | -75.87                  | -41.3           | -34.57      | 154            | 155         | H        |
| 4      | 9.660           | -63.36              | RMS | 36.8              | -15.6            | 11.8                   | -44.76         | -75.12                  | -41.3           | -33.82      | 338            | 155         | V        |
| 2      | 12.665          | -64.56              | RMS | 39.1              | -15.6            | 11.8                   | -43.13         | -72.39                  | -61.3           | -11.09      | 264            | 155         | H        |
| 5      | 12.979          | -63.77              | RMS | 39.1              | -15.6            | 11.8                   | -44.03         | -72.5                   | -61.3           | -11.2       | 96             | 155         | V        |
| 6      | 16.748          | -62.19              | RMS | 41.4              | -15.6            | 11.8                   | -42.72         | -67.31                  | -61.3           | -6.01       | 228            | 155         | V        |
| 3      | 17.163          | -63.02              | RMS | 41.2              | -15.6            | 11.8                   | -41.65         | -67.27                  | -61.3           | -5.97       | 286            | 155         | H        |

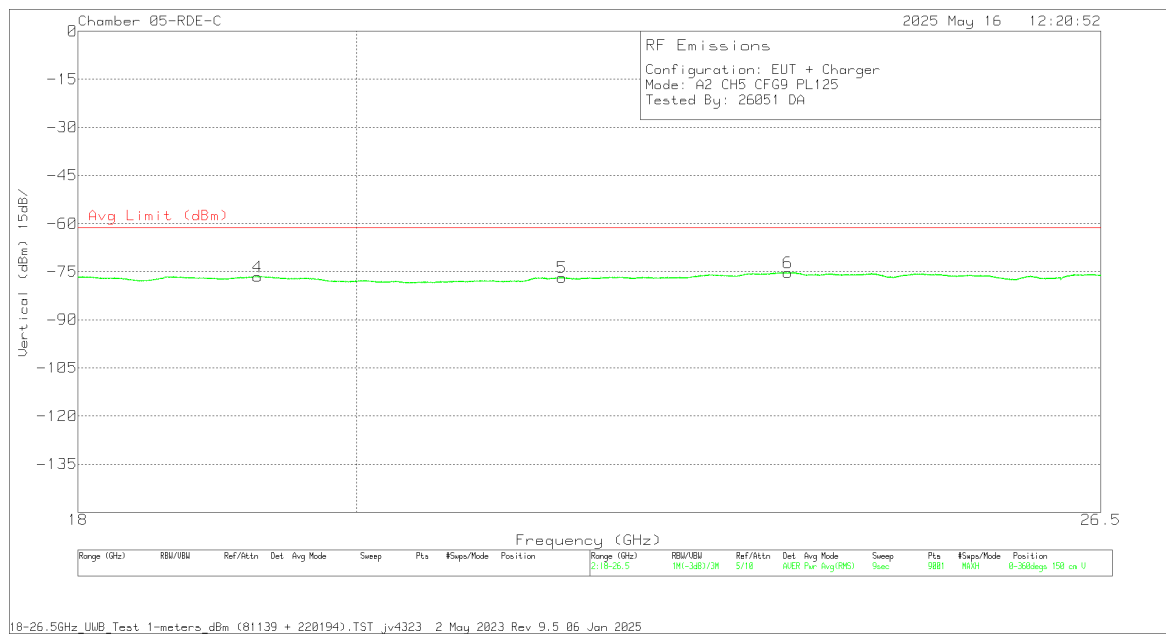
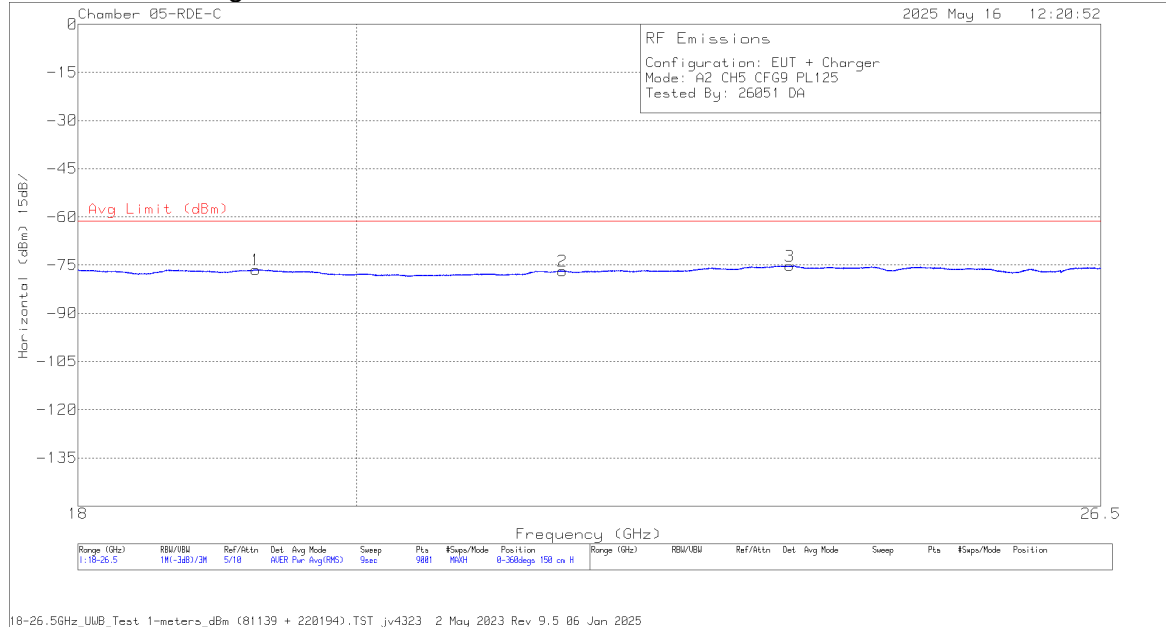
RMS - RMS detection

**9.6.5. AVERAGE EMISSIONS, 18 – 26.5 GHz****Trace Markers**

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 61139 ACF (dBm) | CBL/AMP (dB) | Cables (dB) | Dist Corr (dB) | Conv. Fact. (dB) | Corrected Reading (dBm) | Avg Limit (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-----------------|--------------|-------------|----------------|------------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 18.891555       | -63.03              | RMS | 33              | -62.3        | 13.1        | -9.5           | 11.8             | -76.93                  | -61.3           | -15.63      | 0-360          | 150         | H        |
| 4      | 18.973722       | -63.33              | RMS | 33.1            | -62.4        | 13.2        | -9.5           | 11.8             | -77.13                  | -61.3           | -15.83      | 0-360          | 150         | V        |
| 2      | 21.642721       | -65.07              | RMS | 33.8            | -62.3        | 14.1        | -9.5           | 11.8             | -77.17                  | -61.3           | -15.87      | 0-360          | 150         | H        |
| 5      | 21.967498       | -64.95              | RMS | 33.6            | -62.3        | 14.1        | -9.5           | 11.8             | -77.25                  | -61.3           | -15.95      | 0-360          | 150         | V        |
| 6      | 25.328885       | -65.95              | RMS | 34.9            | -62.8        | 15.1        | -9.5           | 11.8             | -76.45                  | -61.3           | -15.15      | 0-360          | 150         | V        |
| 3      | 25.805608       | -67.15              | RMS | 34.9            | -62.8        | 15.2        | -9.5           | 11.8             | -77.55                  | -61.3           | -16.25      | 0-360          | 150         | H        |

RMS - RMS detection

## ANT2 CH5 Config 9

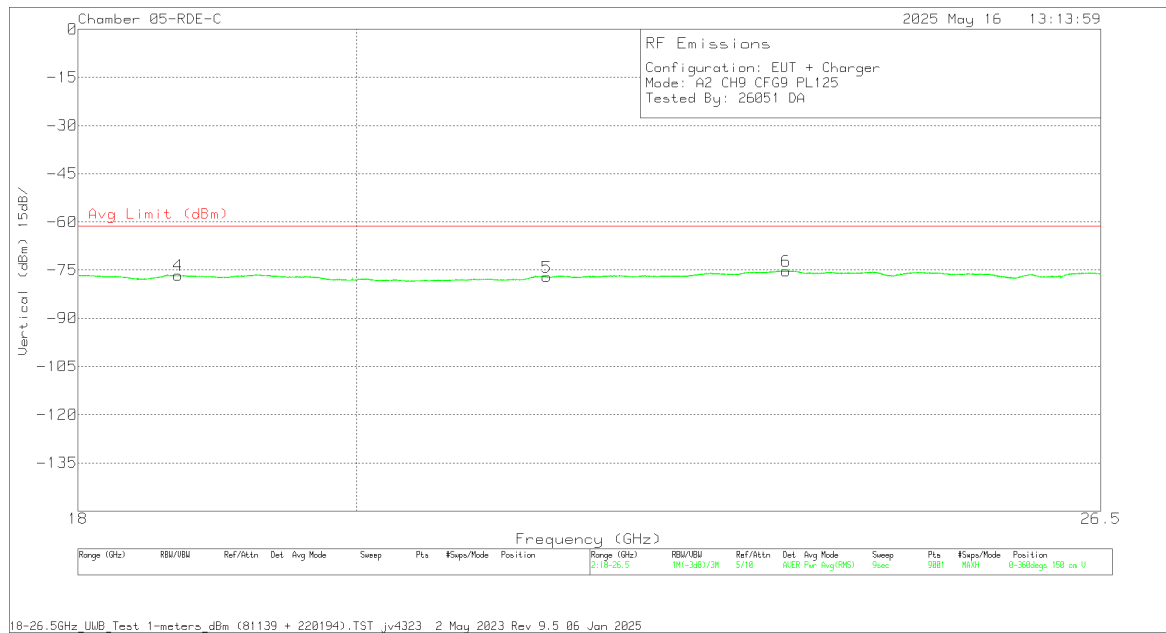
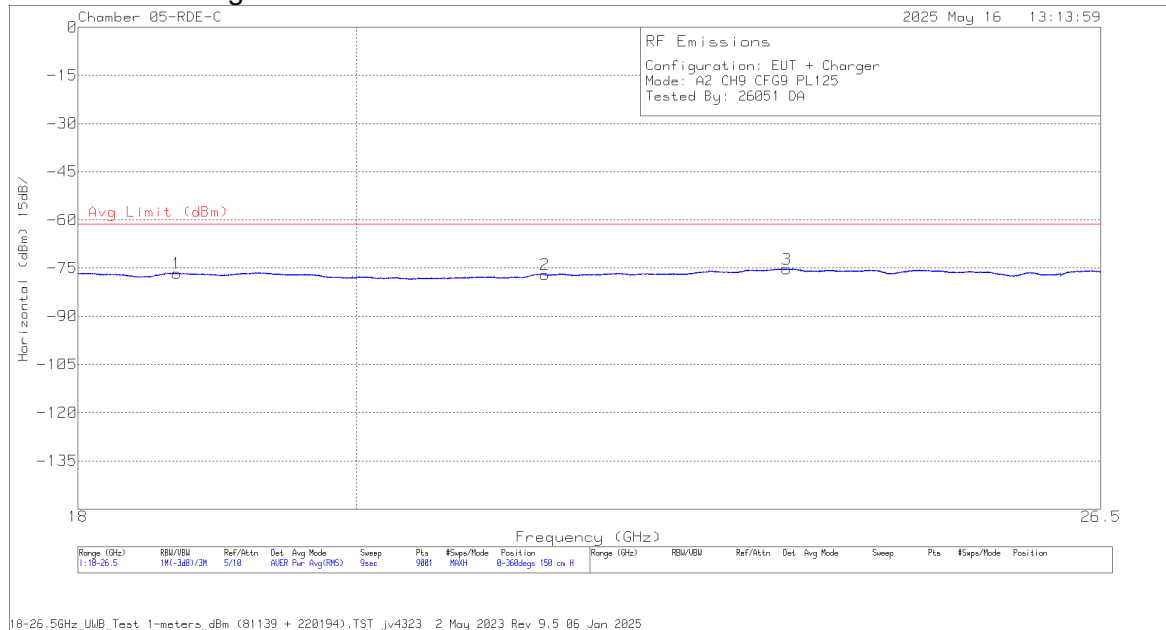


## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 81139 ACF (dBm) | CBL/AMP (dB) | CBL AMP (dB) | Dist Corr (dB) | Conv. Fact (dB) | Corrected Reading (dBm) | Avg Limit (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-----------------|--------------|--------------|----------------|-----------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 19.251388       | -63.04              | RMS | 33              | -62.3        | 13.6         | -9.5           | 11.8            | -76.44                  | -61.3           | -15.14      | 0-360          | 150         | H        |
| 4      | 19.264811       | -63.14              | RMS | 33              | -62.3        | 13.6         | -9.5           | 11.8            | -76.54                  | -61.3           | -15.24      | 0-360          | 150         | V        |
| 5      | 21.613443       | -65.38              | RMS | 33.8            | -62.3        | 14.8         | -9.5           | 11.8            | -76.78                  | -61.3           | -15.48      | 0-360          | 150         | V        |
| 2      | 21.621943       | -65.28              | RMS | 33.8            | -62.3        | 14.7         | -9.5           | 11.8            | -76.78                  | -61.3           | -15.48      | 0-360          | 150         | H        |
| 6      | 23.543886       | -64.95              | RMS | 34.6            | -62.7        | 15.4         | -9.5           | 11.8            | -75.35                  | -61.3           | -14.05      | 0-360          | 150         | V        |
| 3      | 23.561831       | -64.71              | RMS | 34.5            | -62.7        | 15.4         | -9.5           | 11.8            | -75.21                  | -61.3           | -13.91      | 0-360          | 150         | H        |

RMS - RMS detection

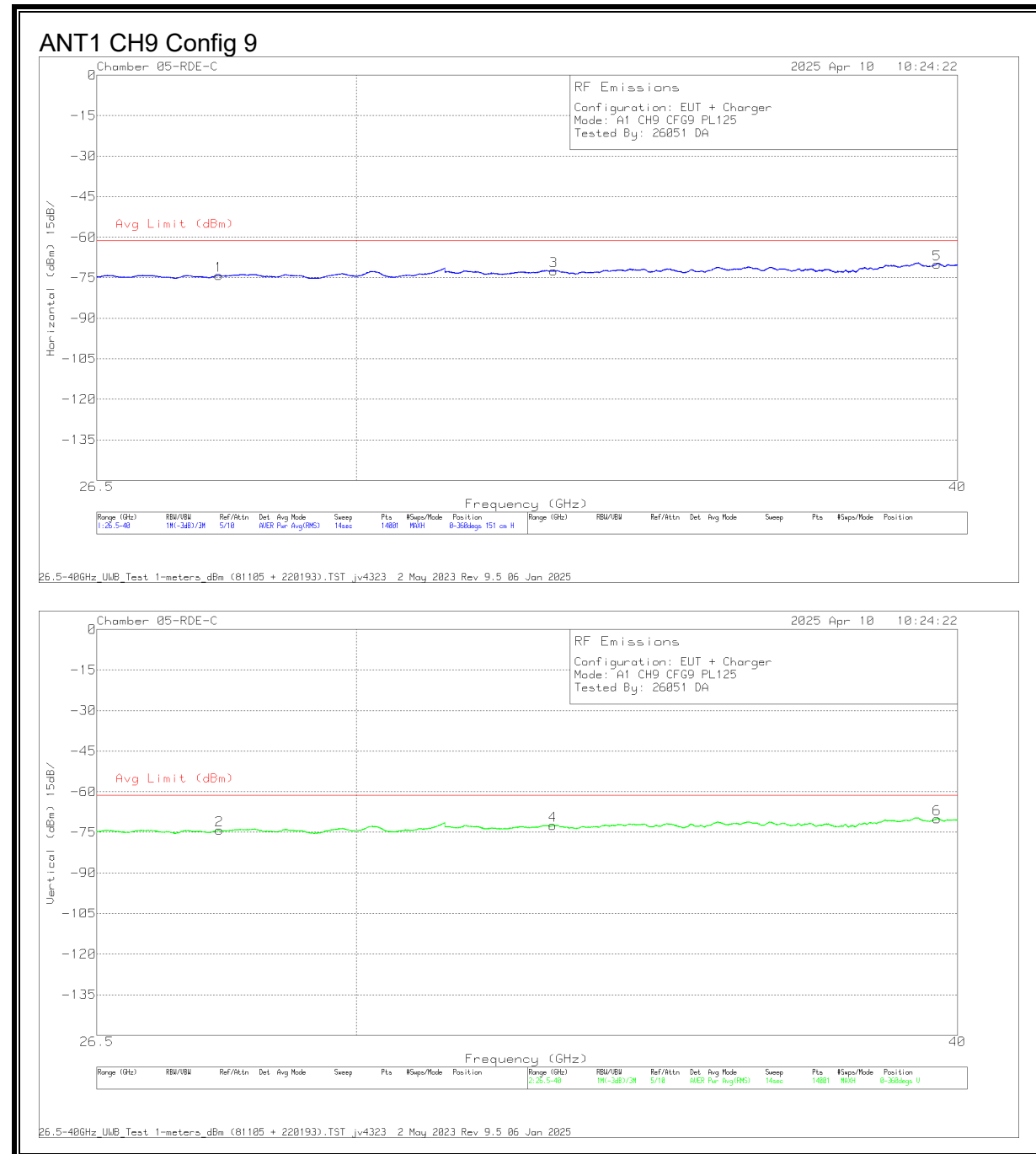
## ANT2 CH9 Config 9



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 81139 ACF (dBm) | CBL/AMP (dB) | CBL AMP (dB) | Dist Corr (dB) | Conv. Fact (dB) | Corrected Reading (dBm) | Avg Limit (dBm) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-----------------|--------------|--------------|----------------|-----------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 1      | 18.685666       | -63.04              | RMS | 32.9            | -62.3        | 13.5         | -9.5           | 11.8            | -76.64                  | -61.3           | -15.34      | 0-360          | 150         | H        |
| 4      | 18.695111       | -63.06              | RMS | 32.9            | -62.3        | 13.5         | -9.5           | 11.8            | -76.66                  | -61.3           | -15.36      | 0-360          | 150         | V        |
| 2      | 21.474609       | -65.15              | RMS | 34              | -62.4        | 14.3         | -9.5           | 11.8            | -76.95                  | -61.3           | -15.65      | 0-360          | 150         | H        |
| 5      | 21.491609       | -65.2               | RMS | 34              | -62.5        | 14.3         | -9.5           | 11.8            | -77.1                   | -61.3           | -15.8       | 0-360          | 150         | V        |
| 6      | 23.529247       | -64.97              | RMS | 34.6            | -62.7        | 15.4         | -9.5           | 11.8            | -75.37                  | -61.3           | -14.07      | 0-360          | 150         | V        |
| 3      | 23.530664       | -64.88              | RMS | 34.6            | -62.7        | 15.4         | -9.5           | 11.8            | -75.28                  | -61.3           | -13.98      | 0-360          | 150         | H        |

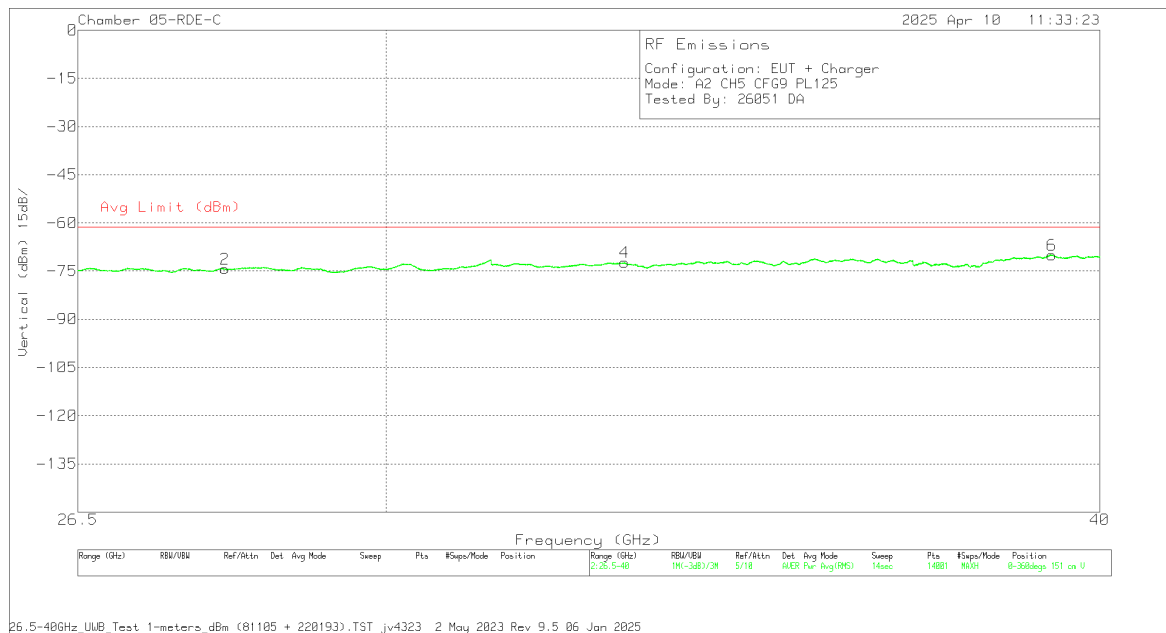
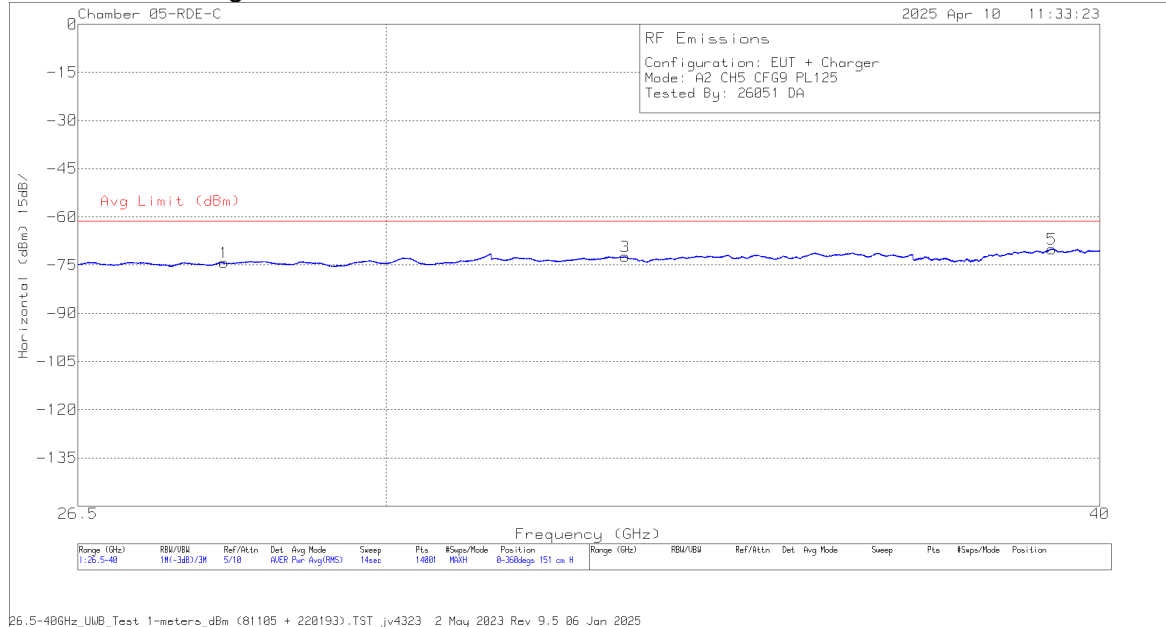
RMS - RMS detection

**9.6.6. AVERAGE EMISSIONS, 26.5 – 40 GHz****Trace Markers**

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 81105 ACF (dBm) | CBL/AMP (dB) | Dist Corr (dB) | Conversion Factor (dB) | Cables (dB) | Corrected Reading (dBm) | Avg Limit (dBm) | Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-----------------|--------------|----------------|------------------------|-------------|-------------------------|-----------------|-------------|-----------------|-------------|----------|
| 1      | 28.092036       | -63.73              | RMS | 36.6            | -65.5        | -9.5           | 11.8                   | 16.2        | -74.13                  | -61.3           | -12.83      | 0-360           | 151         | H        |
| 2      | 28.097822       | -63.77              | RMS | 36.6            | -65.5        | -9.5           | 11.8                   | 16.2        | -74.17                  | -61.3           | -12.87      | 0-360           | 151         | V        |
| 4      | 32.960716       | -66.72              | RMS | 38.1            | -64          | -9.5           | 11.8                   | 17.9        | -72.42                  | -61.3           | -11.12      | 0-360           | 151         | V        |
| 3      | 32.970359       | -66.73              | RMS | 38.1            | -64          | -9.5           | 11.8                   | 17.9        | -72.43                  | -61.3           | -11.13      | 0-360           | 151         | H        |
| 5      | 39.60754        | -66.35              | RMS | 38.9            | -64.8        | -9.5           | 11.8                   | 20          | -69.95                  | -61.3           | -8.65       | 0-360           | 151         | H        |
| 6      | 39.610432       | -66.45              | RMS | 38.9            | -64.8        | -9.5           | 11.8                   | 20          | -70.05                  | -61.3           | -8.75       | 0-360           | 151         | V        |

RMS - RMS detection

## ANT2 CH5 Config 9

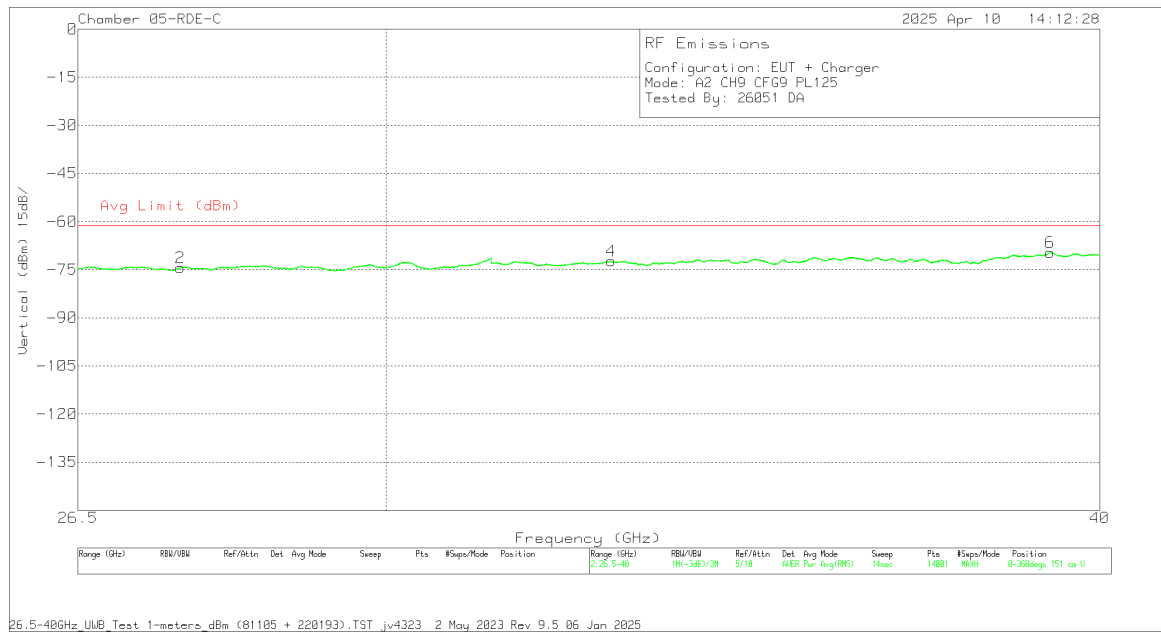
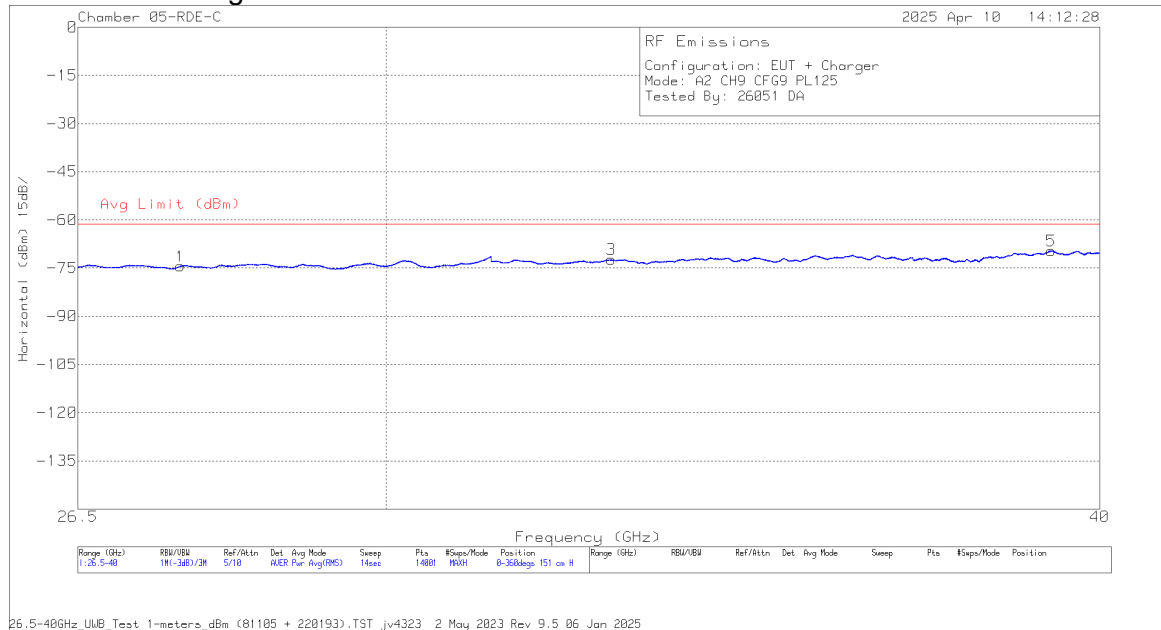


## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 81105 ACF (dBm) | CBL/AMP (dB) | Dist Corr (dB) | Conversion Factor (dB) | Cables (dB) | Corrected Reading (dBm) | Avg Limit (dBm) | Margin (dB) | Altitude (feet) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-----------------|--------------|----------------|------------------------|-------------|-------------------------|-----------------|-------------|-----------------|-------------|----------|
| 1      | 28.1085         | -63.84              | RMS | 36.6            | -65.5        | -9.5           | 11.8                   | 16.2        | -74.24                  | -61.3           | -12.94      | 0-360           | 151         | H        |
| 2      | 28.117108       | -63.97              | RMS | 36.6            | -65.4        | -9.5           | 11.8                   | 16.2        | -74.27                  | -61.3           | -12.97      | 0-360           | 151         | V        |
| 4      | 33.026288       | -66.59              | RMS | 38.1            | -64          | -9.5           | 11.8                   | 17.9        | -72.29                  | -61.3           | -10.99      | 0-360           | 151         | V        |
| 3      | 33.034966       | -66.66              | RMS | 38.1            | -64          | -9.5           | 11.8                   | 17.9        | -72.36                  | -61.3           | -11.06      | 0-360           | 151         | H        |
| 6      | 39.237254       | -67.31              | RMS | 38.9            | -63.7        | -9.5           | 11.8                   | 19.8        | -70.01                  | -61.3           | -8.71       | 0-360           | 151         | V        |
| 5      | 39.238218       | -67.2               | RMS | 38.9            | -63.8        | -9.5           | 11.8                   | 19.8        | -70                     | -61.3           | -8.7        | 0-360           | 151         | H        |

RMS - RMS detection

## ANT2 CH9 Config 9



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 81105 ACF (dBm) | CBL/AMP (dB) | Dist Corr (dB) | Conversion Factor (dB) | Cables (dB) | Corrected Reading (dBm) | Avg Limit (dBm) | Margin (dB) | Acimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|-----------------|--------------|----------------|------------------------|-------------|-------------------------|-----------------|-------------|----------------|-------------|----------|
| 2      | 27.816643       | -62.99              | RMS | 36.2            | -65.8        | -9.5           | 11.8                   | 15.9        | -74.39                  | -61.3           | -13.09      | 0-360          | 151         | V        |
| 1      | 27.817607       | -63.14              | RMS | 36.2            | -65.7        | -9.5           | 11.8                   | 15.9        | -74.44                  | -61.3           | -13.14      | 0-360          | 151         | H        |
| 3      | 32.852716       | -66.64              | RMS | 38              | -63.9        | -9.5           | 11.8                   | 17.9        | -72.34                  | -61.3           | -11.04      | 0-360          | 151         | H        |
| 4      | 32.853368       | -66.63              | RMS | 38              | -63.9        | -9.5           | 11.8                   | 17.9        | -72.33                  | -61.3           | -11.03      | 0-360          | 151         | V        |
| 5      | 39.207361       | -67.04              | RMS | 38.9            | -63.6        | -9.5           | 11.8                   | 19.8        | -69.04                  | -61.3           | -8.34       | 0-360          | 151         | V        |
| 5      | 39.223754       | -66.86              | RMS | 38.9            | -63.7        | -9.5           | 11.8                   | 19.8        | -69.56                  | -61.3           | -8.26       | 0-360          | 151         | H        |

RMS - RMS detection

## 9.7 AC POWER-LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a) & RSS-Gen 8.8

| Frequency of Emission (MHz) | Conducted Limit (dBuV) |                       |
|-----------------------------|------------------------|-----------------------|
|                             | Quasi-peak             | Average               |
| 0.15-0.5                    | 66 to 56 <sup>*</sup>  | 56 to 46 <sup>*</sup> |
| 0.5-5                       | 56                     | 46                    |
| 5-30                        | 60                     | 50                    |

<sup>\*</sup> Decreases with the logarithm of the frequency.

### TEST PROCEDURE

ANSI C63.10 Section 6.2

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

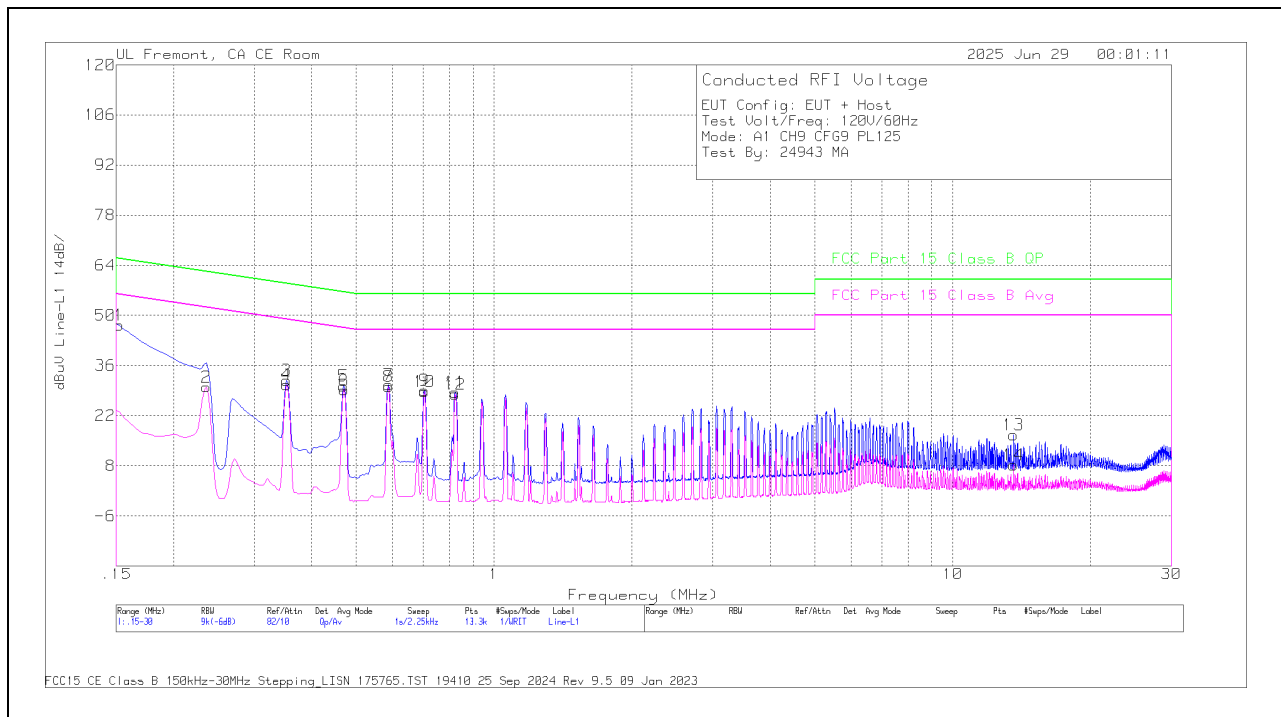
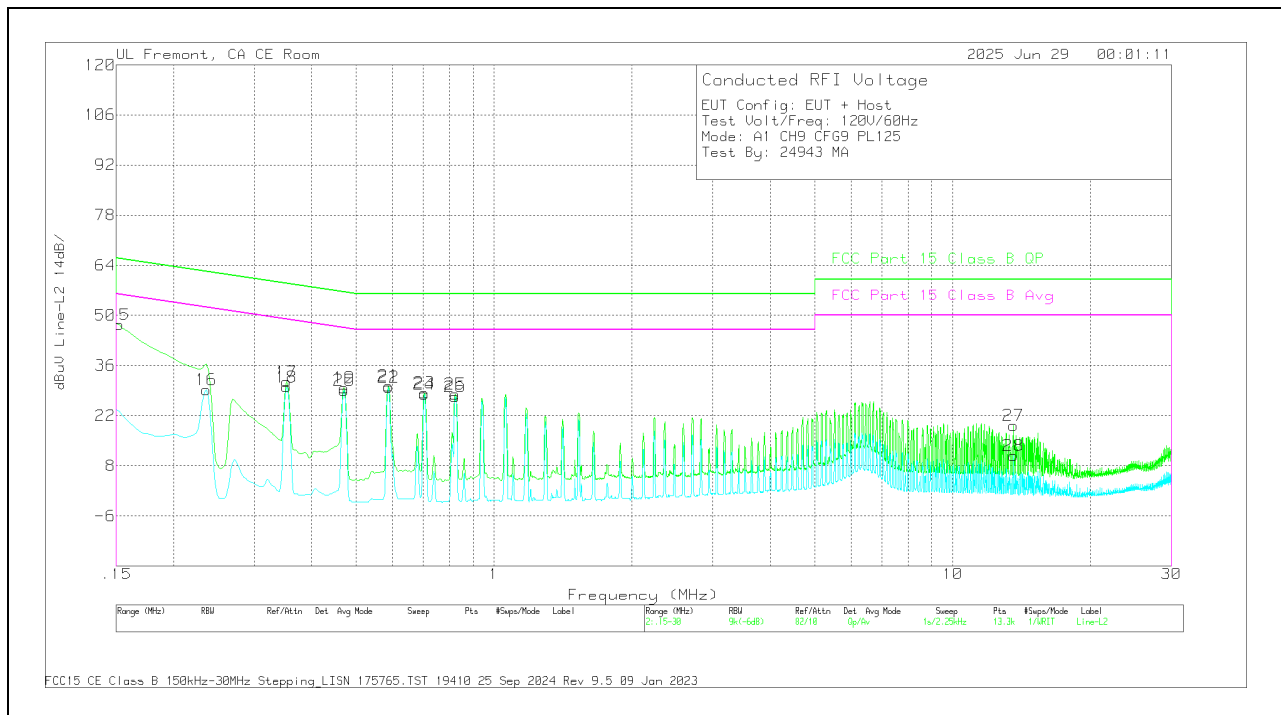
Line conducted data is recorded for both NEUTRAL and HOT lines.

### RESULTS

Employee IDs: 24943

Location: 04-IMM-A

Test Date: 6/28/2025 to 6/29/2025

**9.7.1. AC Power Line With Laptop****LINE 1 RESULTS****LINE 2 RESULTS**

## Trace Markers

## Range 1: Line-L1 .15 - 30MHz

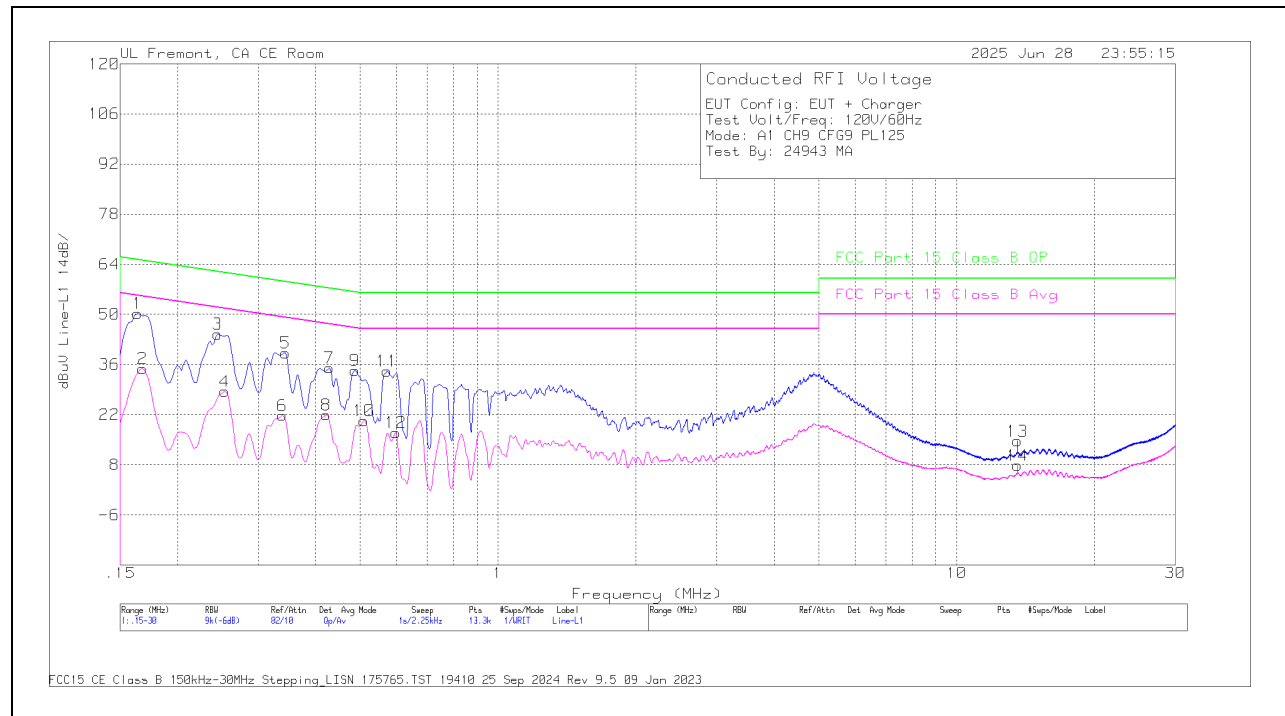
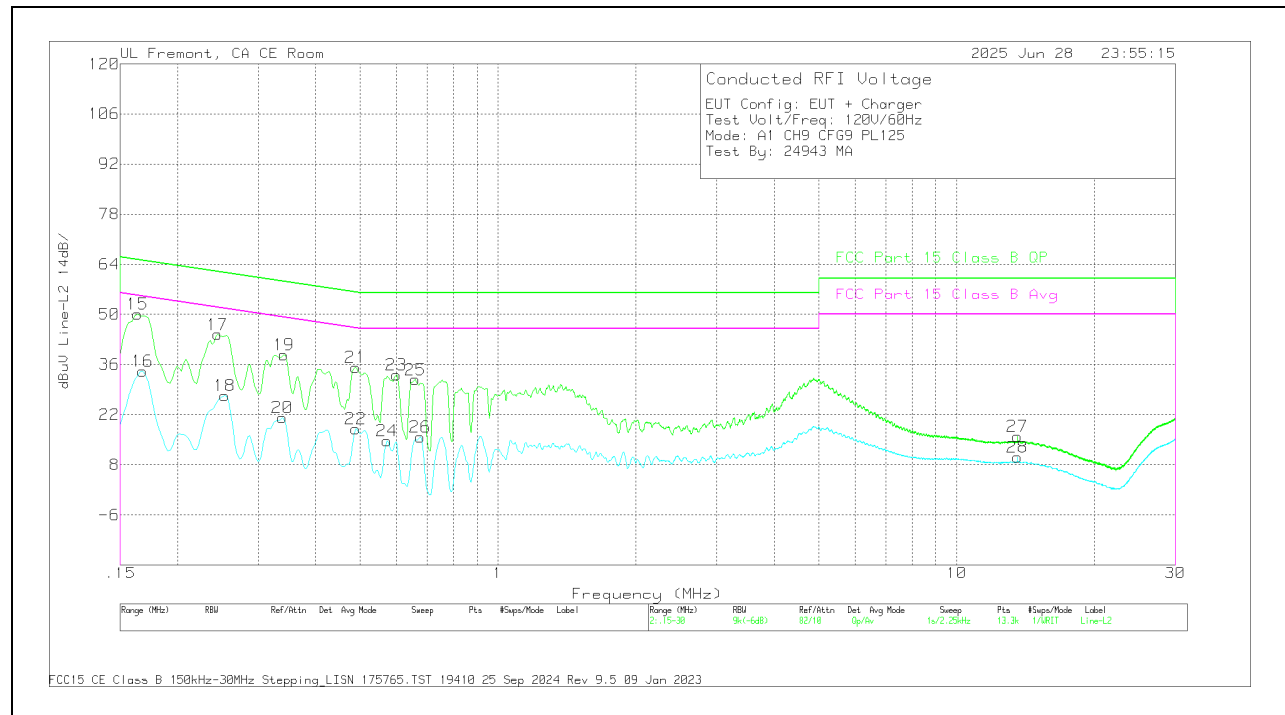
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN (dB) | Line 1 C3_C1_Lim iter no Pad_UL (dB) | Corrected Reading dBuV | FCC Part 15 Class B QP (dBuV) | QP Margin (dB) | FCC Part 15 Class B Avg (dBuV) | Av Margin (dB) |
|--------|-----------------|----------------------|-----|-----------|--------------------------------------|------------------------|-------------------------------|----------------|--------------------------------|----------------|
| 2      | .2355           | 20.61                | Av  | 0         | 9.4                                  | 30.01                  | -                             | -              | 52.25                          | -22.24         |
| 4      | .3525           | 21.23                | Av  | 0         | 9.4                                  | 30.63                  | -                             | -              | 48.9                           | -18.27         |
| 6      | .4706           | 19.74                | Av  | 0         | 9.4                                  | 29.14                  | -                             | -              | 46.5                           | -17.36         |
| 8      | .5888           | 20.88                | Av  | 0         | 9.3                                  | 30.18                  | -                             | -              | 46                             | -15.82         |
| 10     | .7058           | 19.31                | Av  | 0         | 9.4                                  | 28.71                  | -                             | -              | 46                             | -17.29         |
| 12     | .8228           | 18.52                | Av  | 0         | 9.4                                  | 27.92                  | -                             | -              | 46                             | -18.08         |
| 14     | 13.56           | -1.46                | Av  | .1        | 9.5                                  | 8.14                   | -                             | -              | 50                             | -41.86         |
| 1      | .1523           | 37.85                | Qp  | .1        | 9.4                                  | 47.35                  | 65.88                         | -18.53         | -                              | -              |
| 3      | .3525           | 22.5                 | Qp  | 0         | 9.4                                  | 31.9                   | 58.9                          | -27            | -                              | -              |
| 5      | .4695           | 20.88                | Qp  | 0         | 9.4                                  | 30.28                  | 56.52                         | -26.24         | -                              | -              |
| 7      | .5888           | 21.27                | Qp  | 0         | 9.3                                  | 30.57                  | 56                            | -25.43         | -                              | -              |
| 9      | .7058           | 19.69                | Qp  | 0         | 9.4                                  | 29.09                  | 56                            | -26.91         | -                              | -              |
| 11     | .8228           | 19.18                | Qp  | 0         | 9.4                                  | 28.58                  | 56                            | -27.42         | -                              | -              |
| 13     | 13.56           | 6.96                 | Qp  | .1        | 9.5                                  | 16.56                  | 60                            | -43.44         | -                              | -              |

## Range 2: Line-L2 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN (dB) | Line 2 C3_C2_Lim iter no Pad_UL (dB) | Corrected Reading dBuV | FCC Part 15 Class B QP (dBuV) | QP Margin (dB) | FCC Part 15 Class B Avg (dBuV) | Av Margin (dB) |
|--------|-----------------|----------------------|-----|-----------|--------------------------------------|------------------------|-------------------------------|----------------|--------------------------------|----------------|
| 16     | .2355           | 19.88                | Av  | 0         | 9.4                                  | 29.28                  | -                             | -              | 52.25                          | -22.97         |
| 18     | .3525           | 20.72                | Av  | 0         | 9.3                                  | 30.02                  | -                             | -              | 48.9                           | -18.88         |
| 20     | .4718           | 19.71                | Av  | 0         | 9.3                                  | 29.01                  | -                             | -              | 46.48                          | -17.47         |
| 22     | .5888           | 20.67                | Av  | 0         | 9.3                                  | 29.97                  | -                             | -              | 46                             | -16.03         |
| 24     | .7058           | 18.68                | Av  | 0         | 9.3                                  | 27.98                  | -                             | -              | 46                             | -18.02         |
| 26     | .8228           | 17.93                | Av  | 0         | 9.3                                  | 27.23                  | -                             | -              | 46                             | -18.77         |
| 28     | 13.56           | 1.2                  | Av  | .1        | 9.5                                  | 10.8                   | -                             | -              | 50                             | -39.2          |
| 15     | .1523           | 37.88                | Qp  | .1        | 9.4                                  | 47.38                  | 65.88                         | -18.5          | -                              | -              |
| 17     | .3525           | 22.12                | Qp  | 0         | 9.3                                  | 31.42                  | 58.9                          | -27.48         | -                              | -              |
| 19     | .4718           | 20.51                | Qp  | 0         | 9.3                                  | 29.81                  | 56.48                         | -26.67         | -                              | -              |
| 21     | .5888           | 21.05                | Qp  | 0         | 9.3                                  | 30.35                  | 56                            | -25.65         | -                              | -              |
| 23     | .7058           | 19.12                | Qp  | 0         | 9.3                                  | 28.42                  | 56                            | -27.58         | -                              | -              |
| 25     | .8228           | 18.69                | Qp  | 0         | 9.3                                  | 27.99                  | 56                            | -28.01         | -                              | -              |
| 27     | 13.56           | 9.65                 | Qp  | .1        | 9.5                                  | 19.25                  | 60                            | -40.75         | -                              | -              |

Qp - Quasi-Peak detector

Av - Average detection

**9.7.2. AC Power Line With AC/DC Adapter****LINE 1 RESULTS****LINE 2 RESULTS**

## Trace Markers

## Range 1: Line-L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN (dB) | Line 1 C3_C1_Lim iter no Pad_UL (dB) | Corrected Reading dBuV | FCC Part 15 Class B QP (dBuV) | QP Margin (dB) | FCC Part 15 Class B Avg (dBuV) | Av Margin (dB) |
|--------|-----------------|----------------------|-----|-----------|--------------------------------------|------------------------|-------------------------------|----------------|--------------------------------|----------------|
| 2      | .168            | 25.38                | Av  | .1        | 9.4                                  | 34.88                  | -                             | -              | 55.06                          | -20.18         |
| 4      | .2535           | 19.05                | Av  | 0         | 9.4                                  | 28.45                  | -                             | -              | 51.64                          | -23.19         |
| 6      | .339            | 12.38                | Av  | 0         | 9.4                                  | 21.78                  | -                             | -              | 49.23                          | -27.45         |
| 8      | .4223           | 12.55                | Av  | 0         | 9.4                                  | 21.95                  | -                             | -              | 47.4                           | -25.45         |
| 10     | .51             | 10.99                | Av  | 0         | 9.3                                  | 20.29                  | -                             | -              | 46                             | -25.71         |
| 12     | .5978           | 7.6                  | Av  | 0         | 9.3                                  | 16.9                   | -                             | -              | 46                             | -29.1          |
| 14     | 13.56           | -1.83                | Av  | .1        | 9.5                                  | 7.77                   | -                             | -              | 50                             | -42.23         |
| 1      | .1635           | 40.73                | Qp  | .1        | 9.4                                  | 50.23                  | 65.28                         | -15.05         | -                              | -              |
| 3      | .2445           | 35.14                | Qp  | 0         | 9.4                                  | 44.54                  | 61.94                         | -17.4          | -                              | -              |
| 5      | .3435           | 29.85                | Qp  | 0         | 9.4                                  | 39.25                  | 59.12                         | -19.87         | -                              | -              |
| 7      | .429            | 25.79                | Qp  | 0         | 9.3                                  | 35.09                  | 57.27                         | -22.18         | -                              | -              |
| 9      | .4875           | 25.01                | Qp  | 0         | 9.3                                  | 34.31                  | 56.21                         | -21.9          | -                              | -              |
| 11     | .573            | 24.91                | Qp  | 0         | 9.3                                  | 34.21                  | 56                            | -21.79         | -                              | -              |
| 13     | 13.56           | 5                    | Qp  | .1        | 9.5                                  | 14.6                   | 60                            | -45.4          | -                              | -              |

## Range 2: Line-L2 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN (dB) | Line 2 C3_C2_Lim iter no Pad_UL (dB) | Corrected Reading dBuV | FCC Part 15 Class B QP (dBuV) | QP Margin (dB) | FCC Part 15 Class B Avg (dBuV) | Av Margin (dB) |
|--------|-----------------|----------------------|-----|-----------|--------------------------------------|------------------------|-------------------------------|----------------|--------------------------------|----------------|
| 16     | .168            | 24.58                | Av  | .1        | 9.4                                  | 34.08                  | -                             | -              | 55.06                          | -20.98         |
| 18     | .2535           | 17.89                | Av  | 0         | 9.4                                  | 27.29                  | -                             | -              | 51.64                          | -24.35         |
| 20     | .339            | 11.87                | Av  | 0         | 9.3                                  | 21.17                  | -                             | -              | 49.23                          | -28.06         |
| 22     | .4898           | 8.67                 | Av  | 0         | 9.3                                  | 17.97                  | -                             | -              | 46.17                          | -28.2          |
| 24     | .573            | 5.39                 | Av  | 0         | 9.3                                  | 14.69                  | -                             | -              | 46                             | -31.31         |
| 26     | .6765           | 6.48                 | Av  | 0         | 9.3                                  | 15.78                  | -                             | -              | 46                             | -30.22         |
| 28     | 13.56           | .46                  | Av  | .1        | 9.5                                  | 10.06                  | -                             | -              | 50                             | -39.94         |
| 15     | .1635           | 40.56                | Qp  | .1        | 9.4                                  | 50.06                  | 65.28                         | -15.22         | -                              | -              |
| 17     | .2445           | 34.99                | Qp  | 0         | 9.4                                  | 44.39                  | 61.94                         | -17.55         | -                              | -              |
| 19     | .3413           | 29.35                | Qp  | 0         | 9.3                                  | 38.65                  | 59.17                         | -20.52         | -                              | -              |
| 21     | .4898           | 25.84                | Qp  | 0         | 9.3                                  | 35.14                  | 56.17                         | -21.03         | -                              | -              |
| 23     | .6011           | 23.73                | Qp  | 0         | 9.3                                  | 33.03                  | 56                            | -22.97         | -                              | -              |
| 25     | .6608           | 22.47                | Qp  | 0         | 9.3                                  | 31.77                  | 56                            | -24.23         | -                              | -              |
| 27     | 13.56           | 6.3                  | Qp  | .1        | 9.5                                  | 15.9                   | 60                            | -44.1          | -                              | -              |

Qp - Quasi-Peak detector

Av - Average detection

## 11. SETUP PHOTOS

Please refer to 15496277-EP1V1 for setup photos.

## APPENDIX A - SPOT CHECK EVALUATION

### MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3258, A3519, A3520 and A3521.

These models have the same PCB layout, design, common components, antennas, antenna locations and housing cases, except for FR2 is removed from variants and disabled/enabled cellular bands via software as shown below.

| Model | FCC ID     | IC ID       | Feature Difference                                                 | Sim Support | Reference Model |
|-------|------------|-------------|--------------------------------------------------------------------|-------------|-----------------|
| A3258 | BCG-E8947A | 579C-E8947A | -With FR2<br>-No B11/21<br>-No UL MIMO                             | eSIM        | -               |
| A3519 | BCG-E8951A | 579C-E8951A | -Without FR2<br>-Added B11/21<br>-No UL MIMO                       | eSIM        | A3258           |
| A3520 | BCG-E8952A | 579C-E8952A | -Without FR2<br>-No B14, B29, B71, B11/21<br>-No UL MIMO           | eSIM+pSIM   |                 |
| A3521 | BCG-E8953A | 579C-E8953A | -Without FR2<br>-No B14, B29, B71, B11/21, B53<br>-No UL MIMO, MSS | pSIM+pSIM   |                 |

Note:

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$d_{dB} = |V_{dB} - R_{dB}| \quad (1)$$

$$d_{dB} \leq d_{dBmax} \quad (2)$$

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4)$$

Where  $d_{dB}$  is deviation between the variant and the reference model,  $V_{dB}$  is variant spot check level,  $R_{dB}$  is the corresponding reference measurement level,  $d_{dBmax}$  is the maximum deviation  $d_{dB}$  allowed, and  $M_{dB}$  is the margin in dB.

Alternate sets of power settings are applied to variant models to match the effective equivalent isotropic radiated power (EIRP) results of the reference model.

**SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3519**

| A3519 SPOT CHECK RESULTS     |            |         |        |     |                             |                          |                                         |                                         |                   |        |         |
|------------------------------|------------|---------|--------|-----|-----------------------------|--------------------------|-----------------------------------------|-----------------------------------------|-------------------|--------|---------|
| Equipment Class / Technology | Worst Mode | Channel | Config | PL  | Test Item                   | Measured Frequency (GHz) | Original Model: A3258                   | Sub Model: A3519                        | Delta (dB or MHz) | Margin | Remarks |
|                              |            |         |        |     |                             |                          | FCC ID : BCG-E8947A<br>IC : 579C-E8947A | FCC ID : BCG-E8951A<br>IC : 579C-E8951A |                   |        |         |
| UWB                          | Ant 2      | 5       | 0      | 25  | Avg EIRP Power (dBm)        | 6 to 9                   | -42.30                                  | -41.56                                  | 0.74              | -1.00  | Note 1  |
|                              |            |         |        |     | Operating Bandwidth (MHz)   | 6 to 9                   | 526.13                                  | 526.63                                  | 0.50              | N/A    | Note 3  |
|                              |            |         | 9      | 125 | Out-Of-Band Emissions (dBm) | 9 to 18                  | -67.39                                  | -67.20                                  | 0.19              | -6.09  | Note 1  |

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

Note 3: For bandwidth the criteria is that the bandwidth for both reference and variants models be larger than 500MHz.

**SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3520**

| A3520 SPOT CHECK RESULTS     |            |         |        |     |                             |                          |                                         |                                         |                   |        |         |
|------------------------------|------------|---------|--------|-----|-----------------------------|--------------------------|-----------------------------------------|-----------------------------------------|-------------------|--------|---------|
| Equipment Class / Technology | Worst Mode | Channel | Config | PL  | Test Item                   | Measured Frequency (GHz) | Original Model: A3258                   | Sub Model: A3520                        | Delta (dB or MHz) | Margin | Remarks |
|                              |            |         |        |     |                             |                          | FCC ID : BCG-E8947A<br>IC : 579C-E8947A | FCC ID : BCG-E8952A<br>IC : 579C-E8952A |                   |        |         |
| UWB                          | Ant 2      | 5       | 0      | 25  | Avg EIRP Power (dBm)        | 6 to 9                   | -42.30                                  | -41.80                                  | 0.50              | -1.00  | Note 1  |
|                              |            |         |        |     | Operating Bandwidth (MHz)   | 6 to 9                   | 526.13                                  | 526.36                                  | 0.23              | N/A    | Note 3  |
|                              |            |         | 9      | 125 | Out-Of-Band Emissions (dBm) | 9 to 18                  | -67.39                                  | -67.20                                  | 0.19              | -6.09  | Note 1  |

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

Note 3: For bandwidth the criteria is that the bandwidth for both reference and variants models be larger than 500MHz.

**SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3521**

| A3521 SPOT CHECK RESULTS     |            |         |        |     |                             |                          |                                         |                                         |                   |        |         |
|------------------------------|------------|---------|--------|-----|-----------------------------|--------------------------|-----------------------------------------|-----------------------------------------|-------------------|--------|---------|
| Equipment Class / Technology | Worst Mode | Channel | Config | PL  | Test Item                   | Measured Frequency (GHz) | Original Model: A3258                   | Sub Model: A3521                        | Delta (dB or MHz) | Margin | Remarks |
|                              |            |         |        |     |                             |                          | FCC ID : BCG-E8947A<br>IC : 579C-E8947A | FCC ID : BCG-E8953A<br>IC : 579C-E8953A |                   |        |         |
| UWB                          | Ant 2      | 5       | 0      | 25  | Avg EIRP Power (dBm)        | 6 to 9                   | -42.30                                  | -42.28                                  | 0.02              | -1.00  | Note 1  |
|                              |            |         |        |     | Operating Bandwidth (MHz)   | 6 to 9                   | 526.13                                  | 526.63                                  | 0.50              | N/A    | Note 3  |
|                              |            |         | 9      | 125 | Out-Of-Band Emissions (dBm) | 9 to 18                  | -67.39                                  | -67.22                                  | 0.17              | -6.09  | Note 1  |

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

Note 3: For bandwidth the criteria is that the bandwidth for both reference and variants models be larger than 500MHz.

# END OF TEST REPORT