

# resideo

**SIXMINICT3/PROSIXMINI3**

**Report #: RESI-22002**

**FCC ID: CFS8DLSIXMINICT3**

**IC: 573F-SIXMINICT3**

**FCC 15.247:2024**

**RSS-247 Issue 3:2023**

**RSS-Gen Issue 5:2018+A1:2019+A2:2021**

**2.4 GHz Wireless alarm transmitter**

**Issue Date: 2024-08-30**

*Prepared by and for:*

**Ademco Inc.**

**2 Corporate Center Dr.**

**Suite 100 PO Box 9040**

**Melville, NY 11747**

Testing

NVLAP Lab Code: 600110



Testing

NVLAP Lab Code: 600110



| Test Report Revision History |             |                 |                  |              |
|------------------------------|-------------|-----------------|------------------|--------------|
| Revision                     | Prepared By | Reviewed By     | Revision Detail  | Release Date |
| V0                           | Jose Badia  | Christian Fouth | Original Release | 2024-08-25   |

Contents

ATTESTATION OF TEST RESULTS.....5

TEST RESULT SUMMARY.....6

    Deviations from test standard.....6

ACCREDITATIONS AND AUTHORIZATIONS.....7

USA.....7

MEASUREMENT UNCERTAINTY .....7

    Sample Calculation.....7

Test Setup Diagram .....8

    Measurement Bandwidths .....8

    Antenna Port conducted measurements.....8

    Radiated Emission measurements.....9

        30 MHz – 1000 MHz.....9

        Above 1 GHz.....9

EQUIPMENT UNDER TEST .....10

    Test Item Description .....10

    Test Sample Identification.....10

    Worse-Case Configuration & Mode .....10

    Power setting.....10

Antenna description.....10

TEST & MEASUREMENT EQUIPMENT .....11

On Time and Duty Cycle.....13

6dB Emission Bandwidth (DTS Bandwidth).....15

99% Occupied Bandwidth.....18

Output Power .....21

    Peak Output Power.....21

    Average Output Power.....22

Power Spectral Density .....23

Band Edge Compliance.....26

    Low Channel Band Edge.....27

    High Channel Band Edge.....27

Spurious Conducted Emissions .....28

Radiated Emissions .....31

    Radiated Band Edge .....31

        Low Channel Horizontal.....31

        Low Channel Vertical .....32

        High Channel Horizontal.....33

        High Channel Vertical.....34



---

|                                   |    |
|-----------------------------------|----|
| Spurious Radiated Emissions ..... | 35 |
| 30MHz-1GHz (Worst Case).....      | 36 |
| 1-18GHz .....                     | 37 |
| 18 – 26 GHz (Worst case).....     | 39 |
| END OF REPORT.....                | 40 |
| Revision History .....            | 40 |



## ATTESTATION OF TEST RESULTS

**Company Name:** Ademco Inc., 2 Corporate Center Dr., Melville, NY 11747, USA  
**EUT Description:** 2.4 GHz Wireless Alarm transmitter  
**Model:** PROSIXMINI3  
**Serial Number:** 2426DY6000029  
**Sample receipt date:** 07/01/2024  
**Last Date of test:** 08/26/2024

### Standards

| Specification                                | Method            |
|----------------------------------------------|-------------------|
| CFR 47 Pt 15 Subpart C, Section 15.247: 2024 | ANSI C63.10: 2013 |
| RSS-247 Issue 3: 2023                        |                   |
| RSS-GEN Issue 5:2018+A1:2019+A2:2021         |                   |

### Guidance

FCC KDB 558074 V05R02:2019

*Ademco Inc. tested the above equipment in accordance with the requirements set forth in the listed standards. All indications of Pass/Fail in the report are opinions expressed by Ademco Inc. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.*

*This document is a record of the FCC/ISED Test Report for Ademco Inc. products. It demonstrates the data required to be analyzed to certify a product according to the requirements of the FCC & ISED.*

*The results in the report reflect only the tested samples, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only.*

*This document may not be altered or revised in any way unless done so by Ademco Inc. and all revisions are duly noted in the revisions section. Any alterations of this document not carried out by Ademco Inc. will constitute fraud and shall nullify the document.*

*Ademco Inc. is the legal entity name for Honeywell Home / Resideo. All three names can be used interchangeably within this test report.*

Report Prepared By:

*Jose Badia*

Name: Jose Badia

Title: Project Engineer

Ademco Inc.

Reviewed & Approved By:

*Christian Fouth*

Name: Christian Fouth

Title: Sr. Wireless Certification  
Engineer

Ademco Inc.

## TEST RESULT SUMMARY

| Test Description             | Result    | FCC Section (s) | RSS Section (s) | Comments                                                       |
|------------------------------|-----------|-----------------|-----------------|----------------------------------------------------------------|
| Spurious Radiated Emissions  | Pass      | 15.247          | RSS-247 5.5     |                                                                |
| Duty Cycle                   | Evaluated | 15.247          | RSS-Gen 3.2     | The test software allows the EUT to operate at 100% Duty Cycle |
| Output Power                 | Pass      | 15.247          | RSS-247 5.4     |                                                                |
| Band Edge Compliance         | Pass      | 15.247          | RSS-247 5.5     |                                                                |
| Emissions Bandwidth (dB)     | Pass      | 15.247          | RSS-247 5.2     |                                                                |
| Occupied Bandwidth (99%)     | Evaluated | 15.247          | RSS-Gen 6.7     | There is no compliance requirement for this test               |
| Spurious Conducted Emissions | Pass      | 15.247          | RSS-247 5.5     |                                                                |
| Power Spectral Density       | Pass      | 15.247          | RSS-247 5.2     |                                                                |

### Deviations from test standard

None

## ACCREDITATIONS AND AUTHORIZATIONS

### USA

FCC - test site and measurement facility used to collect data are located at 2 Corporate Center Dr., Melville, NY 11747, USA. The Laboratory Code is 600110-0.

## MEASUREMENT UNCERTAINTY

The measuring equipment utilized to perform the tests documented in this report have been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

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

| Parameter               | Uncertainty                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|
| Frequency Accuracy      | +/- 0.0007%                                                                                                         |
| Amplitude Accuracy (dB) | +/- 1.2 dB                                                                                                          |
| Conducted Power (dB)    | +/- 1.2 dB                                                                                                          |
| Radiated Emissions      | 9 kHz – 30 MHz +/- 3.9 dB<br>30 MHz – 1GHz: +/- 4.4 dB<br>1 GHz – 18 GHz: +/- 4.3 dB<br>18 GHz – 26 GHz: +/- 3.9 dB |
| Temperature (°C)        | +/- 0.7                                                                                                             |
| Humidity (% RH)         | +/- 2.5                                                                                                             |
| DC Supply Voltages      | +/- 0.7 %                                                                                                           |

Uncertainty figures are valid to a confidence level of 95% based on a coverage factor (k=2)

### Sample Calculation

Where relevant, the following sample calculation is provided:

#### Radiated Emissions

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

#### Conducted Emissions:

Adjusted Level (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Transducer Factor (dB)

#### Radiated Power (EIRP) - Substitution Method:

Measured Power (dBm) = Measured Level into Substitution Antenna (dBm) + Substitution Antenna Factor (dBi)

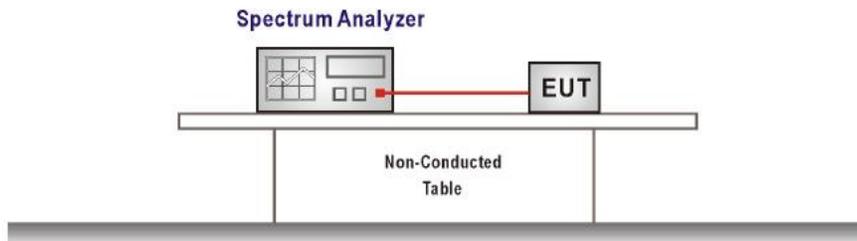
## Test Setup Diagram

### Measurement Bandwidths

| Frequency Range (MHz) | Peak Data (kHz) | Quasi-Peak Data (kHz) | Average Data (kHz) |
|-----------------------|-----------------|-----------------------|--------------------|
| 0.01 – 0.15           | 1.0             | 0.2                   | 0.2                |
| 0.15 – 30.0           | 10.0            | 9.0                   | 9.0                |
| 30.0 – 1000           | 100.0           | 120.0                 | 120.0              |
| Above 1000            | 1000.0          | N/A                   | 1000.0             |

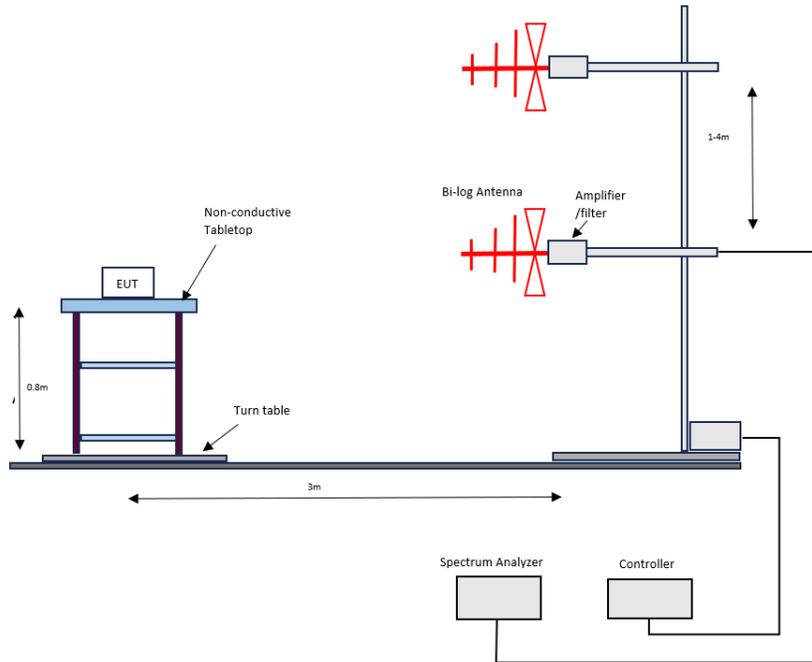
*Unless otherwise stated, measurements were made using the bandwidths and detectors specified. No video filter was used.*

### Antenna Port conducted measurements

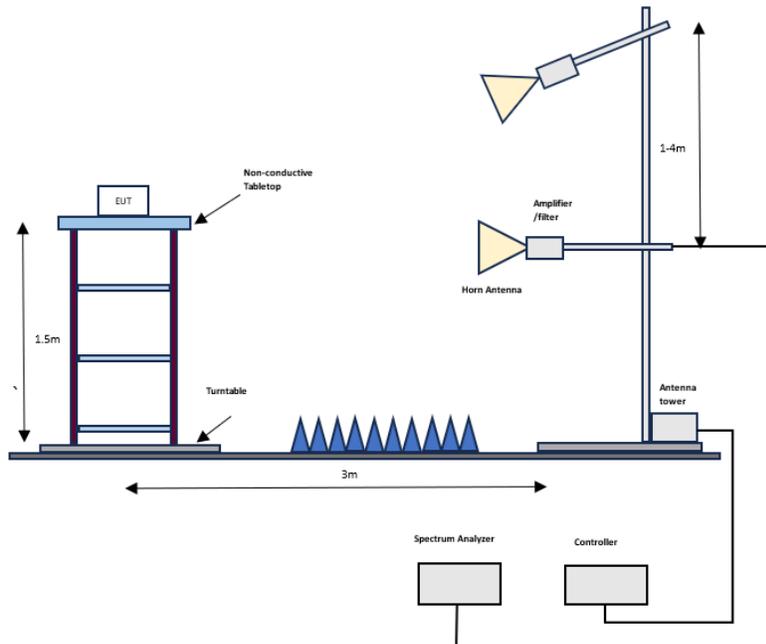


## Radiated Emission measurements

### 30 MHz – 1000 MHz



### Above 1 GHz



## EQUIPMENT UNDER TEST

### Test Item Description

The EUT is a battery-operated wireless alarm transmitter which uses the MAC layer protocol specified in IEEE 802.15.4. This report covers 2 models, the PROSIXMINICT3 and the SIXMINICT3. The models are mechanically & electrically identical, the only difference being the model names for marketing reasons.

### Test Sample Identification

| Sample ID Number | Sample Serial Number | Date Received | Equipment Condition |
|------------------|----------------------|---------------|---------------------|
| MEL-1161         | 2426DY6000029        | 07/01/2024    | No damage           |
| MEL-1160         |                      | 07/01/2024    | No damage           |

### Worse-Case Configuration & Mode

Radiated emissions was performed with the EUT set to transmit at the low/middle/high channels with the highest output power as worst-case scenario. The EUT was tested in all three orthogonal planes in order to determine the worst-case emissions.

### Power setting

The power settings below reflect the maximum power that the EUT is allowed to transmit at during normal operation.

| Modulation Types            | Position (if multiple channels) | Power Setting (dBm) |
|-----------------------------|---------------------------------|---------------------|
| Single data rate modulation | Low channel                     | 12.5                |
|                             | Mid channel                     | 12.5                |
|                             | High channel                    | 12.5                |

### Antenna description

| Antenna   | Type      | Frequency Range (MHz) | Gain (dBi) |
|-----------|-----------|-----------------------|------------|
| Antenna 1 | PCB Trace | 2405-2475 MHz         | 0.94       |

## TEST & MEASUREMENT EQUIPMENT

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

### Equipment List

| Instrument Type                            | ID #  | Serial #   | Manufacturer    | Model       | Cal Date   | Cal Due Date |
|--------------------------------------------|-------|------------|-----------------|-------------|------------|--------------|
| RF Lab (Power & Antenna Port Measurements) |       |            |                 |             |            |              |
| Spectrum Analyzer                          | 1149  | MY46187211 | Agilent         | E4440A      | 3/5/2024   | 3/5/2026     |
| Power Sensor                               | 11568 | 105317     | Rohde & Schwarz | NRP-Z81     | 11/03/2023 | 11/03/2025   |
| Attenuator                                 | -     | 1624       | Pasternack      | PE7087-6    | 04/04/2024 | 04/03/2025   |
| RF Chamber                                 |       |            |                 |             |            |              |
| Spectrum Analyzer                          | 11545 | 103125     | Rohde & Schwarz | FSW26       | 11/07/2023 | 11/07/2025   |
| Loop Antenna (9kHz-30MHz)                  | 11535 | 121080     | Com-Power       | AL-130R     | 3/4/2024   | 3/4/2026     |
| Bilog Antenna (30MHz-5GHz)                 | 11534 | A012816    | Sunol           | JB6         | 3/4/2024   | 3/4/2026     |
| Horn Antenna (1-18GHz)                     | 2319  | 2317       | EMCO            | 3115        | 11/30/2023 | 11/30/2025   |
| Horn Antenna (18-26.5GHz)                  | 11472 | 151        | EMCO            | EM-6963     | 06/24/2023 | 06/24/2025   |
| Preamp (10-4200MHz)                        | 11537 | 1603006    | Mini Circuits   | TVA-11-422  | 04/17/2024 | 04/17/2025   |
| Preamp (500MHz-18GHz)                      | 11557 | 18040034   | Com-Power       | PAM-118A    | 04/17/2024 | 04/17/2025   |
| Preamp (18-40GHz)                          | 11541 | 160911     | Amplicial       | AMP18G40-35 | 04/18/2024 | 04/17/2025   |
| Band Reject Filter                         | 11553 | G041       | Micro-tronics   | BRM50702-01 | 04/04/2024 | 04/03/2025   |
| RF Cable                                   | -     | -          | Mini-Circuits   | RDE#2       | 04/26/2024 | 04/25/2025   |
| RF Cable                                   | -     | -          | Insulated Wire  | SMA#8       | 04/26/2024 | 04/25/2025   |
| OATS                                       |       |            |                 |             |            |              |
| Spectrum Analyzer                          | 11545 | 103125     | Rohde & Schwarz | FSW26       | 11/07/2023 | 11/07/2025   |
| Bilog Antenna (30MHz-6GHz)                 | 11534 | A012816    | Sunol           | JB6         | 3/4/2024   | 3/4/2026     |
| Horn Antenna (1-18GHz)                     | 2973  | 3127       | EMCO            | RGA-60      | 11/30/2023 | 11/30/2025   |
| Horn Antenna (18-26.5GHz)                  | 11472 | 151        | EMCO            | EM-6963     | 06/24/2023 | 06/24/2025   |
| Preamp (100kHz-1.3GHz)                     | 11540 | 2443AUF555 | HP              | 8447D       | 04/26/2024 | 04/25/2025   |

|                      |       |             |                    |               |            |            |
|----------------------|-------|-------------|--------------------|---------------|------------|------------|
| Preamp (1-18GHz)     | 11539 | 160362      | Amplical           | AMP1G18-35    | 04/26/2024 | 04/25/2025 |
| Preamp (18-40GHz)    | 11541 | 160911      | Amplical           | AMP18G40-35   | 04/26/2024 | 04/25/2025 |
| High Pass Filter     | 11552 | G018        | Micro-tronics      | HPM50111-01   | 04/04/2024 | 04/03/2025 |
| RF Cable             | -     | -           | Pasternack         | RDE#1         | 04/26/2024 | 04/25/2025 |
| RF Cable             | -     | -           | MegaPhase          | EMC2-S1S1-360 | 04/26/2024 | 04/25/2025 |
| Misc.                |       |             |                    |               |            |            |
| Measurement Software | 11543 | Version 9.5 | UL                 | UL EMC        | N/A        | N/A        |
| Environmental Meter  | 11533 | A070144     | Extech Instruments | SD700         |            |            |

\*-Passive devices & Preamps are characterized in-house, not calibrated.



# On Time and Duty Cycle

**Test Description**

Refer to KDB 558074 Zero-Span Analyzer Method.

**Test Criteria**

| Reference                                     | Limit                    |
|-----------------------------------------------|--------------------------|
| KDB 558074, Section 6<br>C63.10, Section 11.6 | None, for reporting only |

**Test Information**

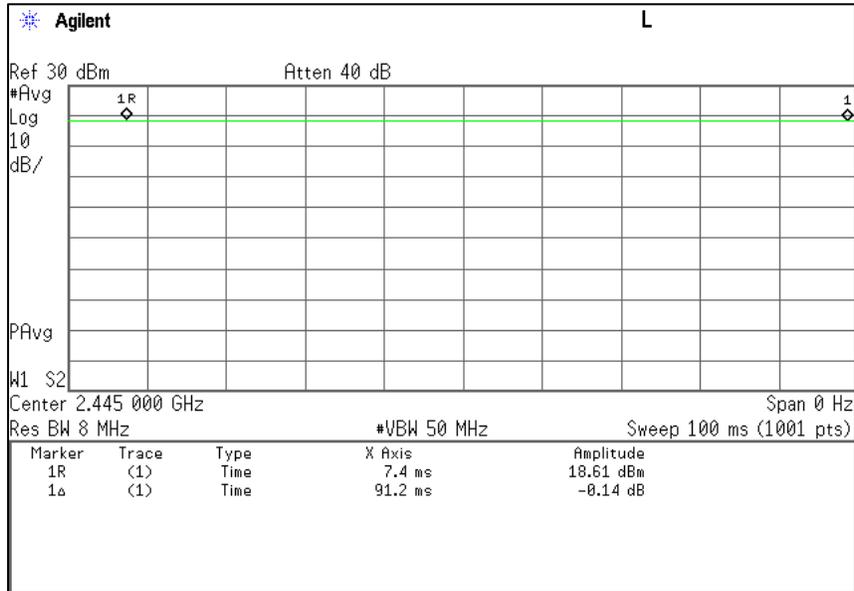
| Tester     | Test Location  | Date       | Temperature (°C) | Humidity (%RH) | Pressure (mbar) | Results (P/F) |
|------------|----------------|------------|------------------|----------------|-----------------|---------------|
| Jose Badia | Melville, OATS | 08/21/2024 | 22.2             | 69             | 1014            | Pass          |

**Test Results**

| Mode     | On Time (msec) | Period (msec) | Duty Cycle (%) | Duty Cycle correction factor |
|----------|----------------|---------------|----------------|------------------------------|
| 802.15.4 | 100            | 100           | 100%           | 0                            |

**Note:** The duty cycle used for testing was 100%. In normal operation, the device is limited by the protocol to a maximum operational duty factor of 6.976% (refer to additional exhibits in this filing) and this value is used to determine the average level of radiated spurious emissions related to the fundamental from the measured peak level of the spurious emission using the 20log(d) factor allowed under KDB 558074/C63.10.

Duty Cycle Plot





## 6dB Emission Bandwidth (DTS Bandwidth)

### Test Description

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. Refer to KDB 558074 D01 15.247 Meas Guidance v05.

### Test Criteria

| Reference                                            | Limit    |
|------------------------------------------------------|----------|
| CFR 47 Subpart C 15.247:2024<br>RSS-247 Issue 3:2023 | ≥ 500kHz |

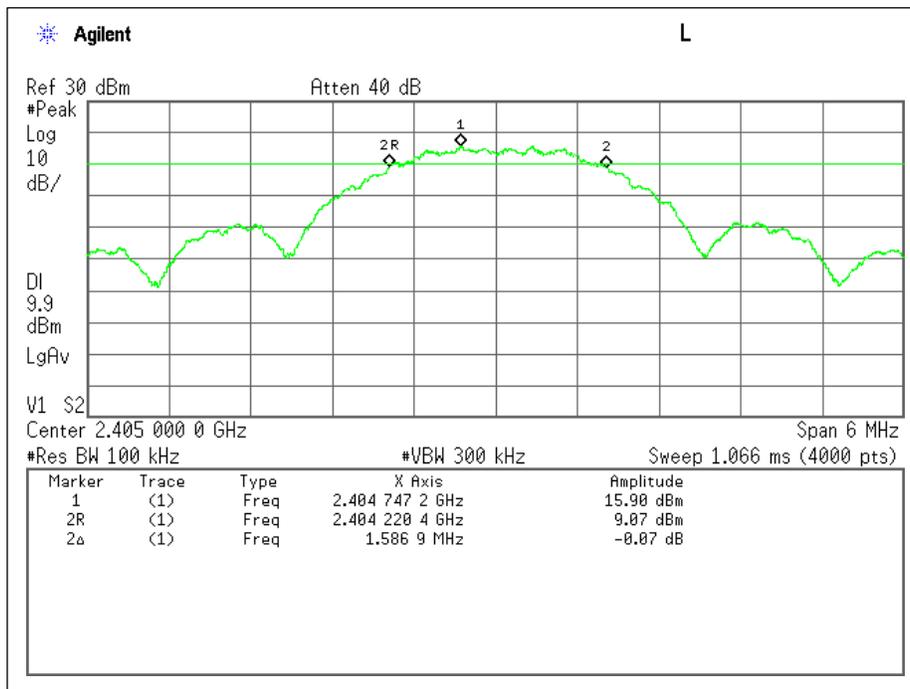
### Test Information

| Tester     | Test Location  | Date       | Temperature (°C) | Humidity (%RH) | Pressure (mbar) | Results (P/F) |
|------------|----------------|------------|------------------|----------------|-----------------|---------------|
| Jose Badia | Melville, OATS | 07/24/2024 | 23.1             | 69             | 1014            | Pass          |

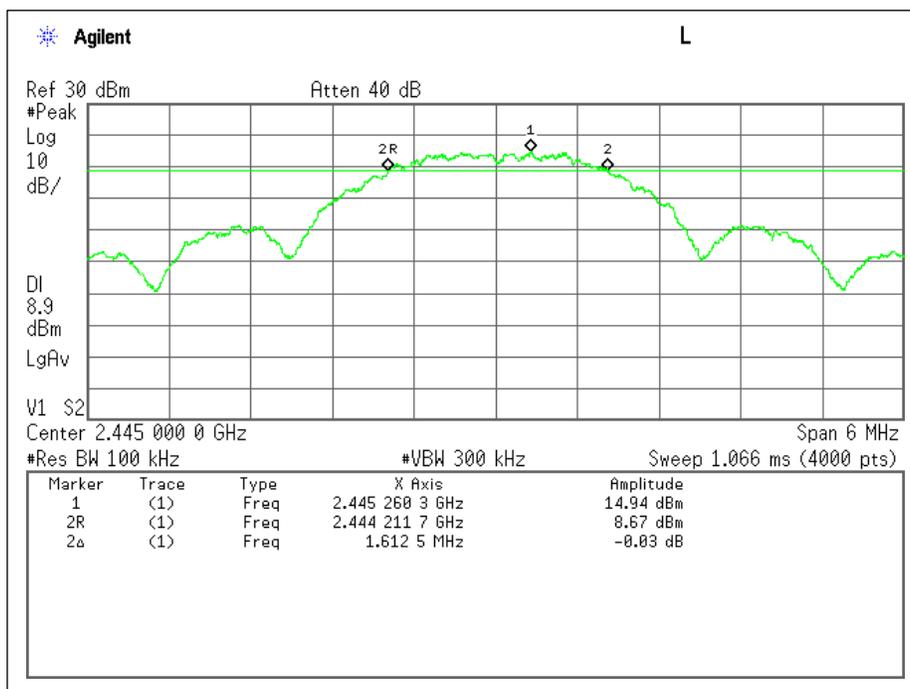
### Test Results

| Channel | Frequency (MHz) | 6db Bandwidth (MHz) | Minimum Limit (MHz) |
|---------|-----------------|---------------------|---------------------|
| 11      | 2405            | 1.586               | 0.5                 |
| 19      | 2445            | 1.612               | 0.5                 |
| 25      | 2475            | 1.592               | 0.5                 |

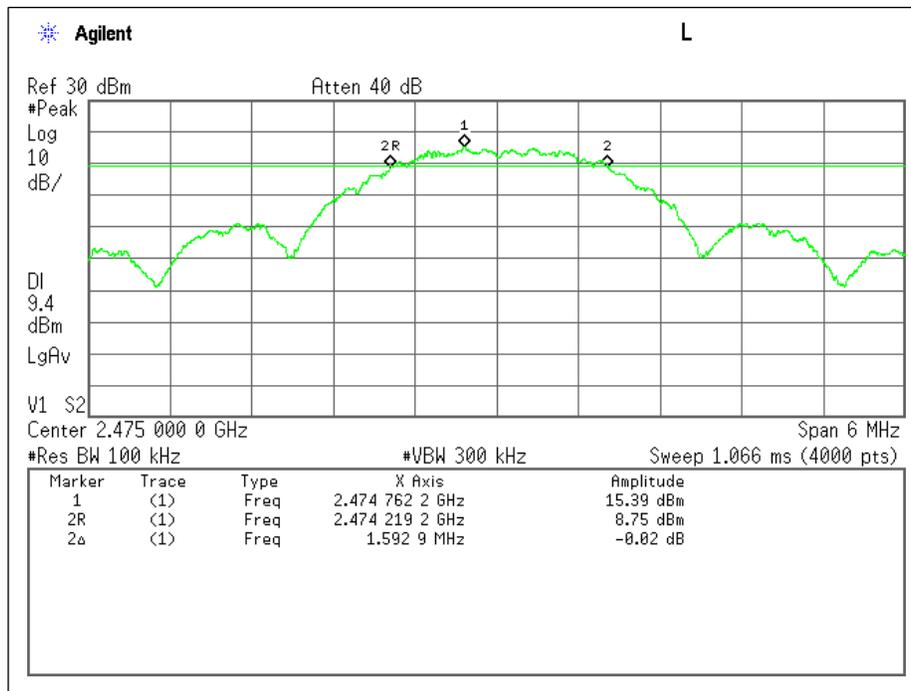
**6dB Bandwidth data**



Antenna 1: Low Channel - Plot



Antenna 1: Mid Channel - Plot



Antenna 1: High Channel – Plot

## 99% Occupied Bandwidth

### Test Description

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.

When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth, as calculated or measured.

### Test Criteria

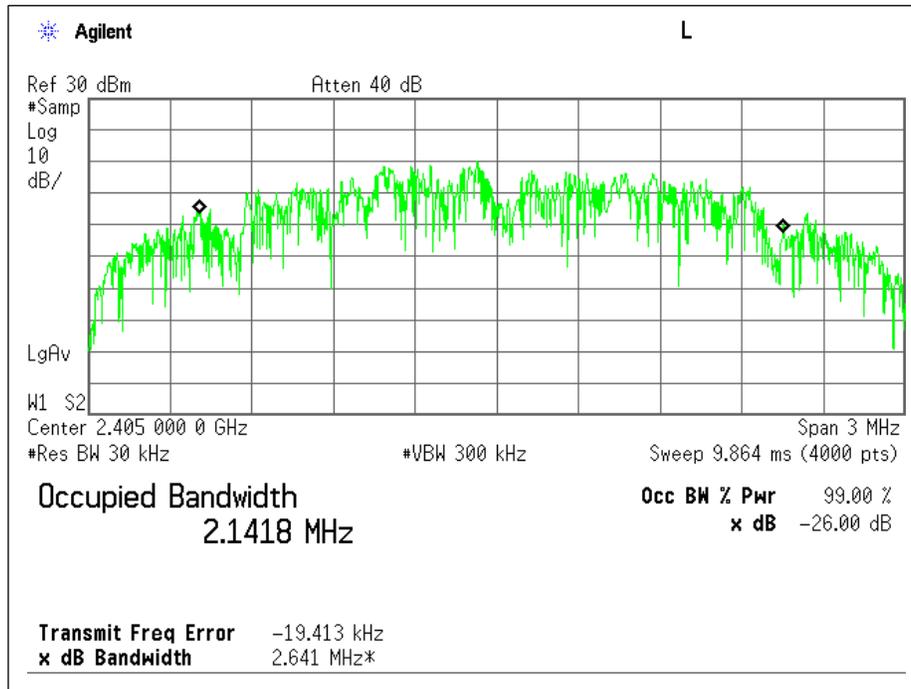
| Reference            | Limit |
|----------------------|-------|
| RSS-GEN, Section 6.6 | N/A   |

### Test Information

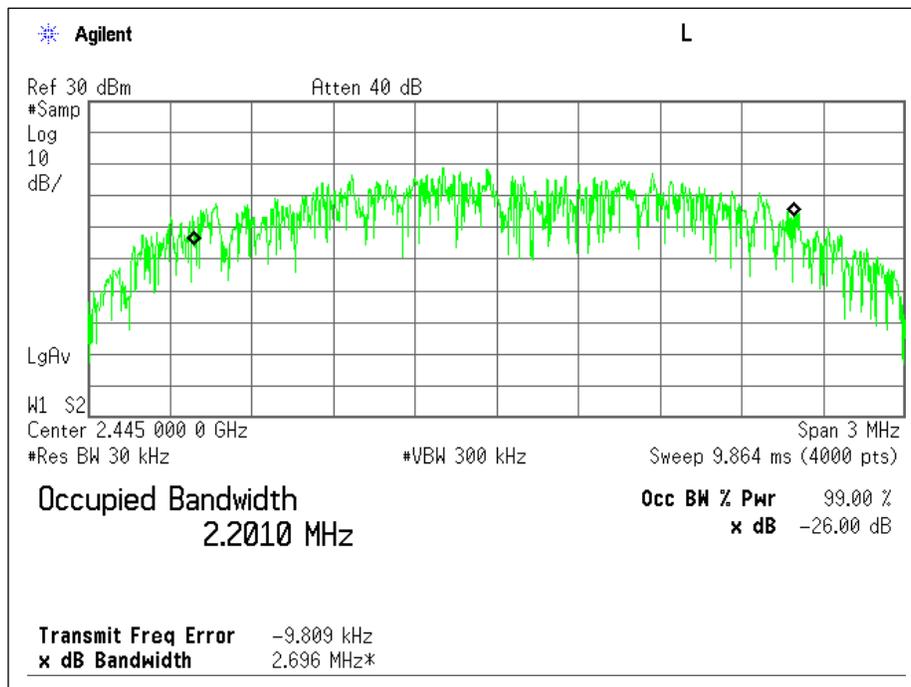
| Tester     | Test Location  | Date       | Temperature (°C) | Humidity (%RH) | Pressure (mbar) | Results (P/F) |
|------------|----------------|------------|------------------|----------------|-----------------|---------------|
| Jose Badia | Melville, OATS | 07/24/2024 | 23.1             | 69             | 1014            | Pass          |

### Test Results

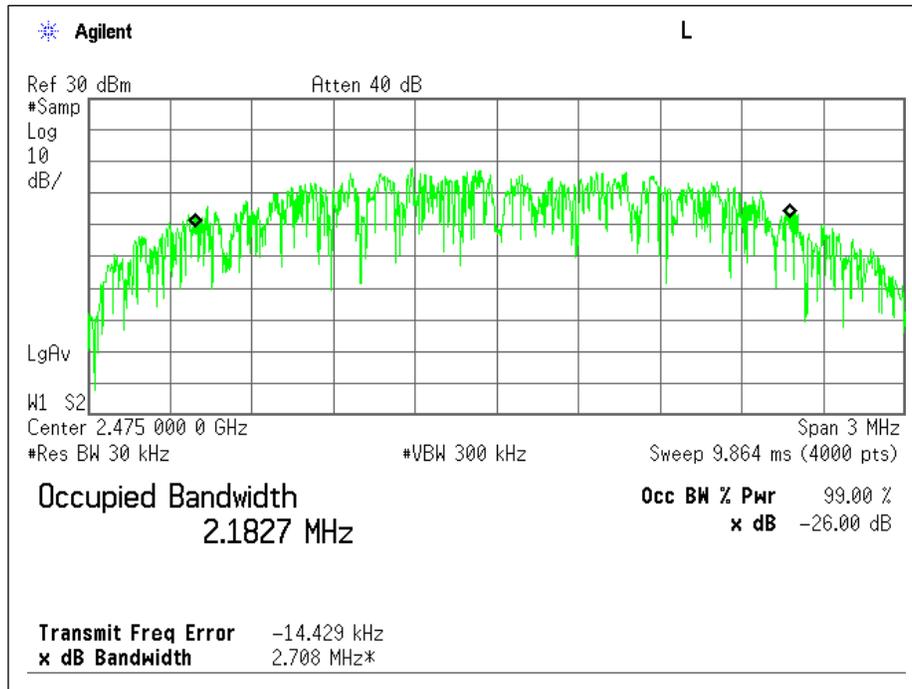
| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| 11      | 2405            | 2.1418              |
| 19      | 2445            | 2.2010              |
| 25      | 2475            | 2.1827              |



Antenna 1: Low Channel - Plot



Antenna 1: Mid Channel - Plot



Antenna 1: High Channel – Plot

# Output Power

## Peak Output Power

### Test Description

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 0.5 dB was entered as an offset in the power meter to allow for a gated peak reading of power.

### Test Criteria

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm

| Reference                                            | Limit      |
|------------------------------------------------------|------------|
| CFR 47 Subpart C 15.247:2024<br>RSS-247 Issue 3:2023 | 1W (30dBm) |

### Test Information

| Tester     | Test Location  | Date       | Temperature (°C) | Humidity (%RH) | Pressure (mbar) | Results (P/F) |
|------------|----------------|------------|------------------|----------------|-----------------|---------------|
| Jose Badia | Melville, OATS | 07/24/2024 | 23.1             | 69             | 1014            | Pass          |

### Test Results

| Channel | Frequency (MHz) | Peak Power reading (dBm) | Limit (dBm) | Worst Case margin (dB) |
|---------|-----------------|--------------------------|-------------|------------------------|
| 11      | 2405            | 19.06                    | 30          | -10.94                 |
| 19      | 2445            | 18.78                    | 30          | -11.22                 |
| 25      | 2475            | 18.58                    | 30          | -11.42                 |

## Average Output Power

### Test Description

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 0.5 dB was entered as an offset in the power meter to allow for a gated peak reading of power.

### Test Criteria

For reporting purpose only.

### Test Information

| Tester     | Test Location  | Date       | Temperature (°C) | Humidity (%RH) | Pressure (mbar) | Results (P/F) |
|------------|----------------|------------|------------------|----------------|-----------------|---------------|
| Jose Badia | Melville, OATS | 07/24/2024 | 23.1             | 69             | 1014            | Pass          |

### Test Results

| Channel | Frequency (MHz) | Average Power reading (dBm) |
|---------|-----------------|-----------------------------|
| 11      | 2405            | 19.02                       |
| 19      | 2445            | 18.74                       |
| 25      | 2475            | 18.53                       |



# Power Spectral Density

## Test Criteria

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

| Reference                                            | Limit                     |
|------------------------------------------------------|---------------------------|
| CFR 47 Subpart C 15.247:2024<br>RSS-247 Issue 3:2023 | < 8 dBm in any 3 kHz Band |

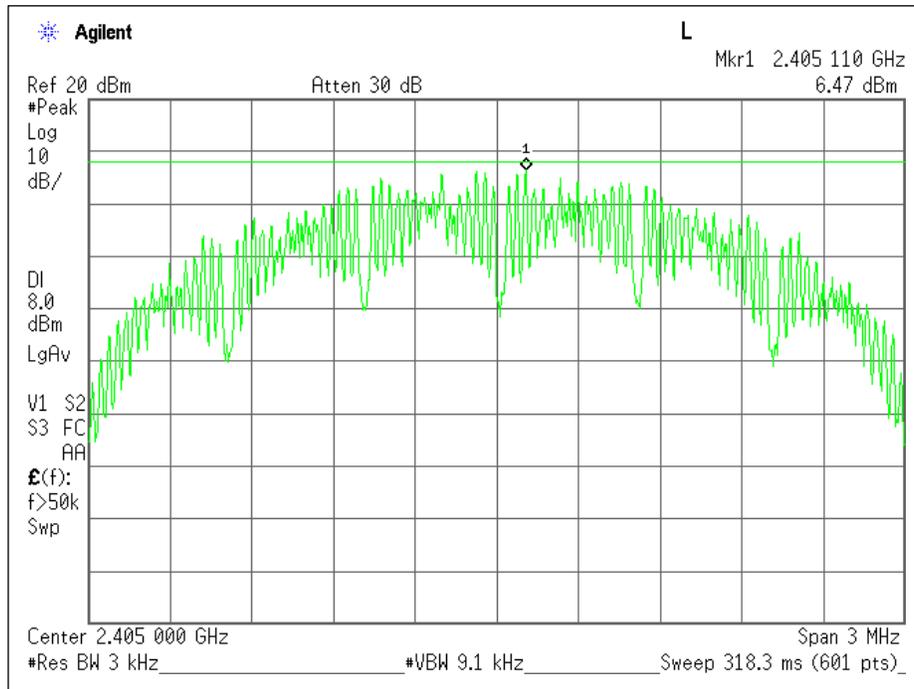
## Test Information

| Tester     | Test Location  | Date       | Temperature (°C) | Humidity (%RH) | Pressure (mbar) | Results (P/F) |
|------------|----------------|------------|------------------|----------------|-----------------|---------------|
| Jose Badia | Melville, OATS | 08/21/2024 | 22.2             | 69             | 1014            | Pass          |

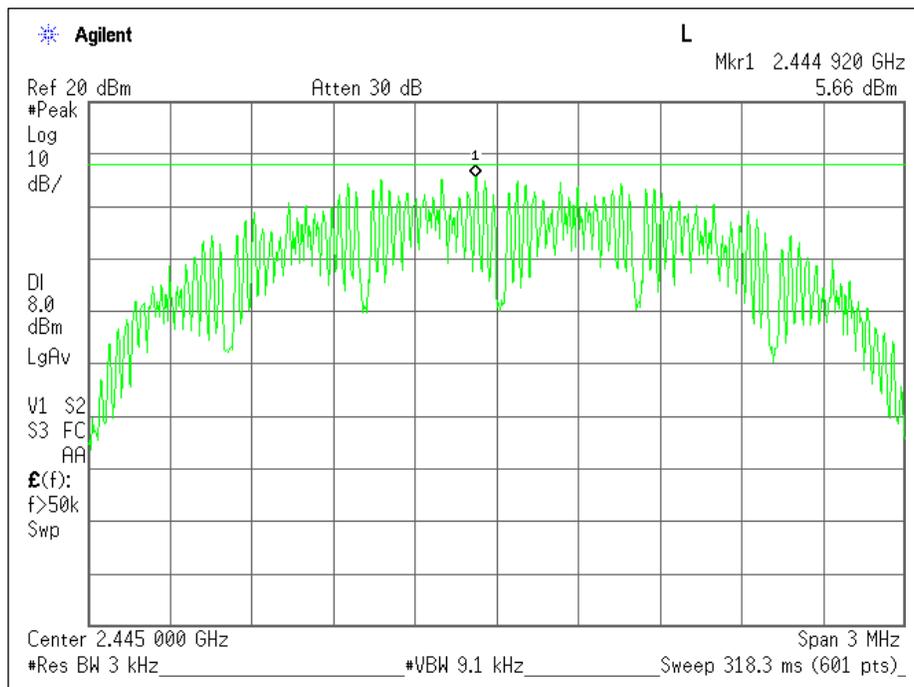
## Test Results

| Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Margin (dB) |
|---------|-----------------|----------------|------------------|-------------|
| 11      | 2405            | 6.47           | 8                | 1.53        |
| 19      | 2445            | 5.66           | 8                | 2.34        |
| 25      | 2475            | 5.61           | 8                | 2.39        |

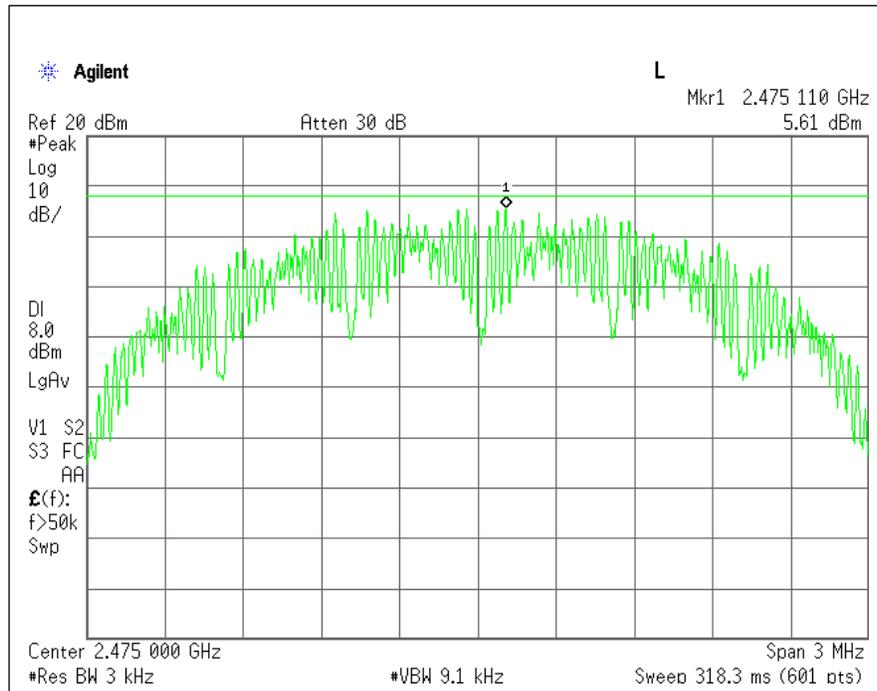
PSD data



Antenna 1: Low Channel - Plot



Antenna 1: Mid Channel - Plot



Antenna 1: High Channel – Plot

# Band Edge Compliance

**Test description**

Testing was performed using the mode(s) of operation and configuration(s) noted within the report.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spectrum was scanned below the lower band edge and above the higher band edge. The analyzer screen captures for this test show an example of the emission mask for the test mode also used for the radiated spurious emissions at the restricted band edges test.

**Test Criteria**

| Reference                                            | Limit                       |
|------------------------------------------------------|-----------------------------|
| CFR 47 Subpart C 15.247:2024<br>RSS-247 Issue 3:2023 | 20 dB below the Fundamental |

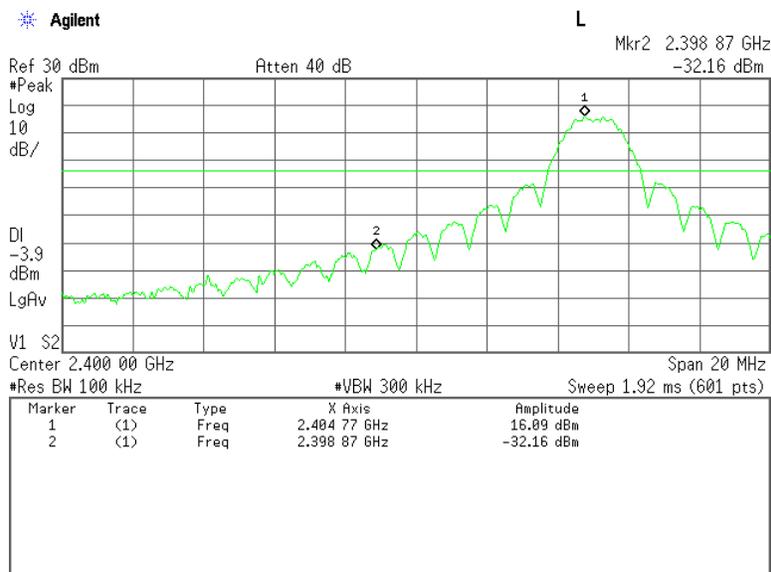
**Test Information**

| Tester     | Test Location  | Date       | Temperature (°C) | Humidity (%RH) | Pressure (mbar) | Results (P/F) |
|------------|----------------|------------|------------------|----------------|-----------------|---------------|
| Jose Badia | Melville, OATS | 08/26/2024 | 22.1             | 69             | 1014            | Pass          |

**Test Results**

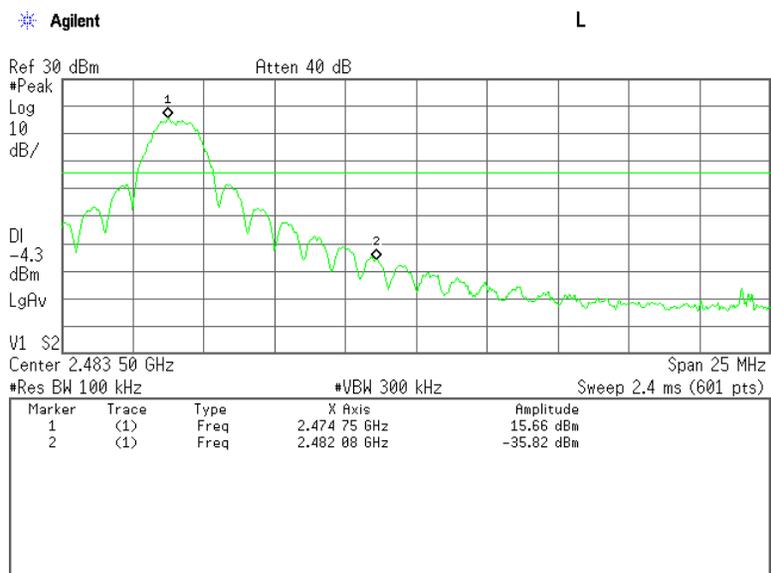
| Channel | Frequency (MHz) | Value (dBc) | Limit (dBc) | Result |
|---------|-----------------|-------------|-------------|--------|
| 11      | 2405            | -48.25      | -20         | Pass   |
| 25      | 2475            | -51.48      | -20         | Pass   |

### Low Channel Band Edge



Antenna 1: Low Channel - Plot

### High Channel Band Edge



Antenna 1: High Channel - Plot

## Spurious Conducted Emissions

### Test Description

Testing was performed using the mode(s) of operation and configuration(s) noted within the report.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. For each transmit frequency, the fundamental was measured with a 100 kHz resolution bandwidth and the highest value was recorded. The rest of the spectrum was then measured with a 100 kHz resolution bandwidth and the highest value was found. The difference between the value found on the fundamental and the rest of the spectrum was compared against the limit to determine compliance.

### Test Criteria

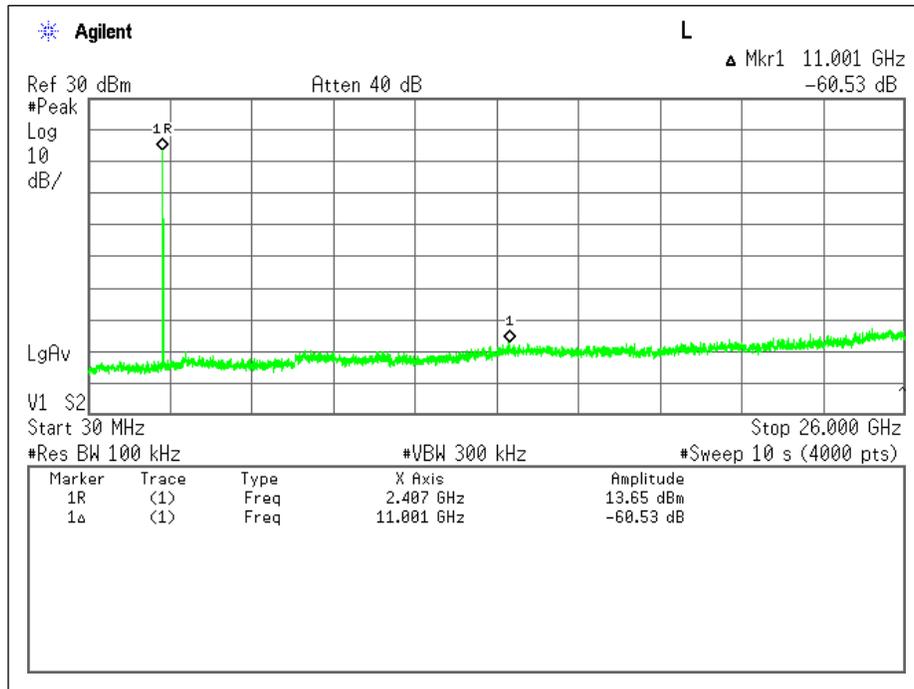
| Reference                                            | Limit                       |
|------------------------------------------------------|-----------------------------|
| CFR 47 Subpart C 15.247:2024<br>RSS-247 Issue 3:2023 | 20 dB below the Fundamental |

### Test Information

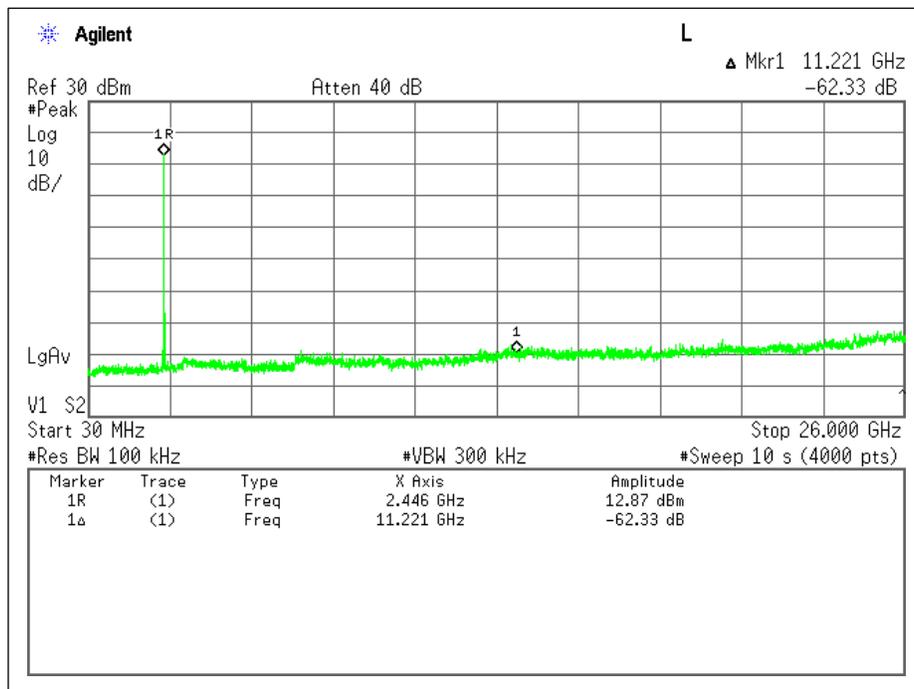
| Tester     | Test Location  | Date       | Temperature (°C) | Humidity (%RH) | Pressure (mbar) | Results (P/F) |
|------------|----------------|------------|------------------|----------------|-----------------|---------------|
| Jose Badia | Melville, OATS | 07/24/2024 | 23.1             | 69             | 1014            | Pass          |

### Test Results

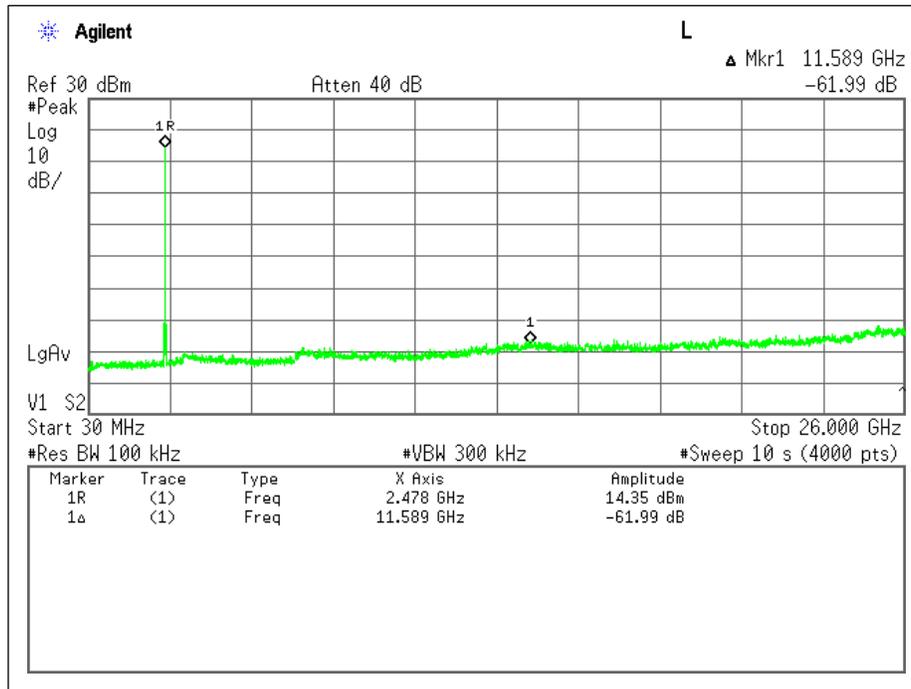
| Channel | Frequency (MHz) | Highest Spurious Emission Delta from the - XdB down Limit (dBc) | Limit (dBc) | Result |
|---------|-----------------|-----------------------------------------------------------------|-------------|--------|
| 11      | 2405            | -60.53                                                          | -20         | Pass   |
| 19      | 2445            | -62.33                                                          | -20         | Pass   |
| 25      | 2475            | -61.99                                                          | -20         | Pass   |



Antenna 1: Low Channel



Antenna 1: Mid Channel



Antenna 1: High Channel

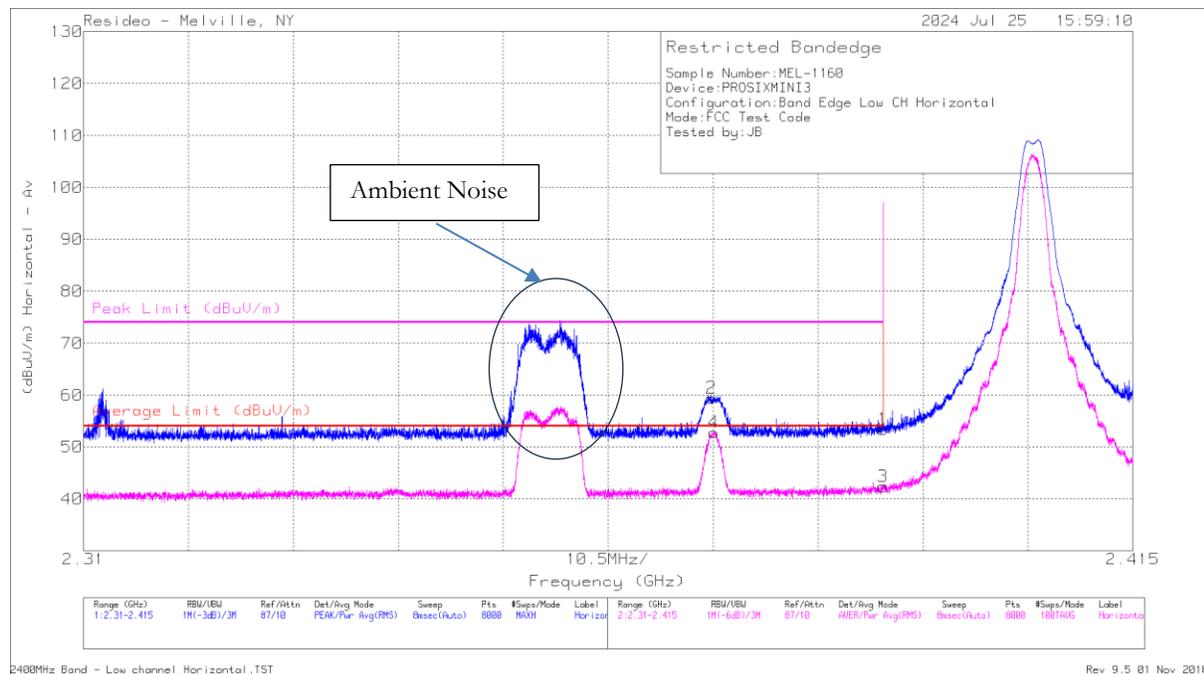
# Radiated Emissions

## Radiated Band Edge

### Test Information

| Tester     | Test Location  | Date       | Temperature (°C) | Humidity (%RH) | Pressure (mbar) | Results (P/F) |
|------------|----------------|------------|------------------|----------------|-----------------|---------------|
| Jose Badia | Melville, OATS | 07/25/2024 | 25               | 49             | 1014            | Pass          |

### Low Channel Horizontal



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF [dB/m] | Gain/Loss (dB) | DCF (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------|----------------|----------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 19.13                | Pk  | 28.5      | 5.8            |          | 53.43                      | -                      | -           | 74                  | -20.57         | 262            | 120         | H        |
| 2      | * 2.373         | 25.21                | Pk  | 28.4      | 5.8            |          | 59.41                      | -                      | -           | 74                  | -14.59         | 262            | 120         | H        |
| 3      | * 2.39          | 8.09                 | RMS | 28.5      | 5.8            | -23.1    | 19.29                      | 54                     | -34.71      | -                   | -              | 262            | 120         | H        |
| 4      | * 2.373         | 18.6                 | RMS | 28.4      | 5.8            | -23.1    | 29.7                       | 54                     | -24.3       | -                   | -              | 262            | 120         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

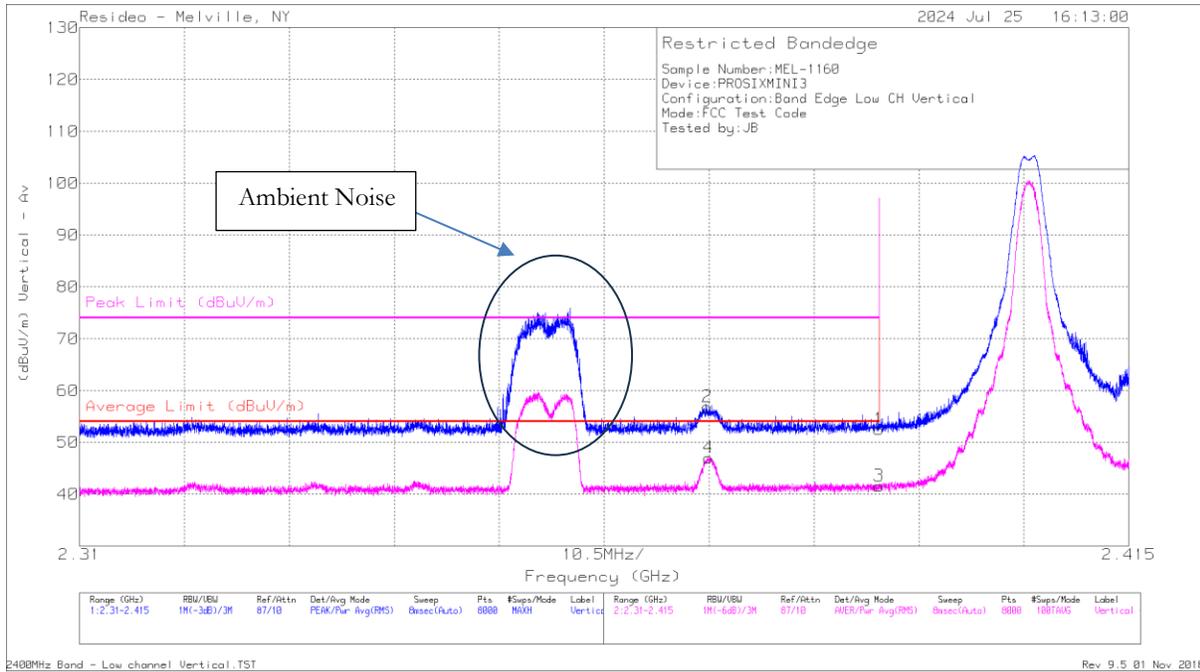
RMS - RMS detection

2400MHz Band - Low channel Horizontal.TST

Rev 9.5 01 Nov 2018



Low Channel Vertical



Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF [dB/m] | Gain/Loss (dB) | DCF (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------|----------------|----------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 18.27                | Pk  | 28.5      | 5.8            |          | 52.57                      | -                      | -           | 74                  | -21.43         | 262            | 120         | V        |
| 2      | * 2.373         | 22.71                | Pk  | 28.4      | 5.8            |          | 56.91                      | -                      | -           | 74                  | -17.09         | 262            | 120         | V        |
| 3      | * 2.39          | 7.33                 | RMS | 28.5      | 5.8            | -23.1    | 18.53                      | 54                     | -35.47      | -                   | -              | 262            | 120         | V        |
| 4      | * 2.373         | 12.86                | RMS | 28.4      | 5.8            | -23.1    | 23.96                      | 54                     | -30.04      | -                   | -              | 262            | 120         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

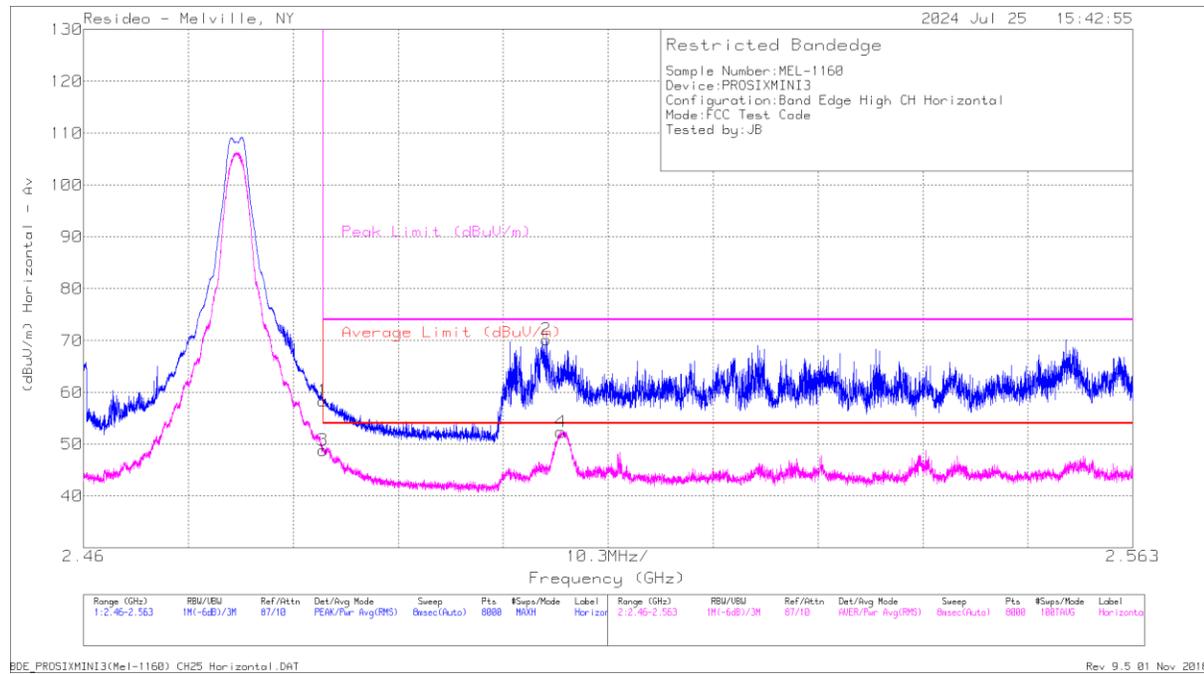
Pk - Peak detector

RMS - RMS detection

2400MHz Band - Low channel Vertical.TST

Rev 9.5 01 Nov 2018

### High Channel Horizontal



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF [dB/m] | Gain/Loss (dB) | DCF (dB0) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------|----------------|-----------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.484         | 23.74                | Pk  | 28.7      | 5.9            |           | 58.34                      | -                      | -           | 74                  | -15.66         | 262            | 120         | H        |
| 2      | 2.505           | 35.41                | Pk  | 28.8      | 6              |           | 70.21                      | -                      | -           | 74                  | -3.79          | 262            | 120         | H        |
| 3      | * 2.484         | 14.25                | RMS | 28.7      | 5.9            | -23.1     | 25.75                      | 54                     | -28.25      | -                   | -              | 262            | 120         | H        |
| 4      | 2.507           | 17.61                | RMS | 28.8      | 6              | -23.1     | 29.31                      | 54                     | -24.69      | -                   | -              | 262            | 120         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

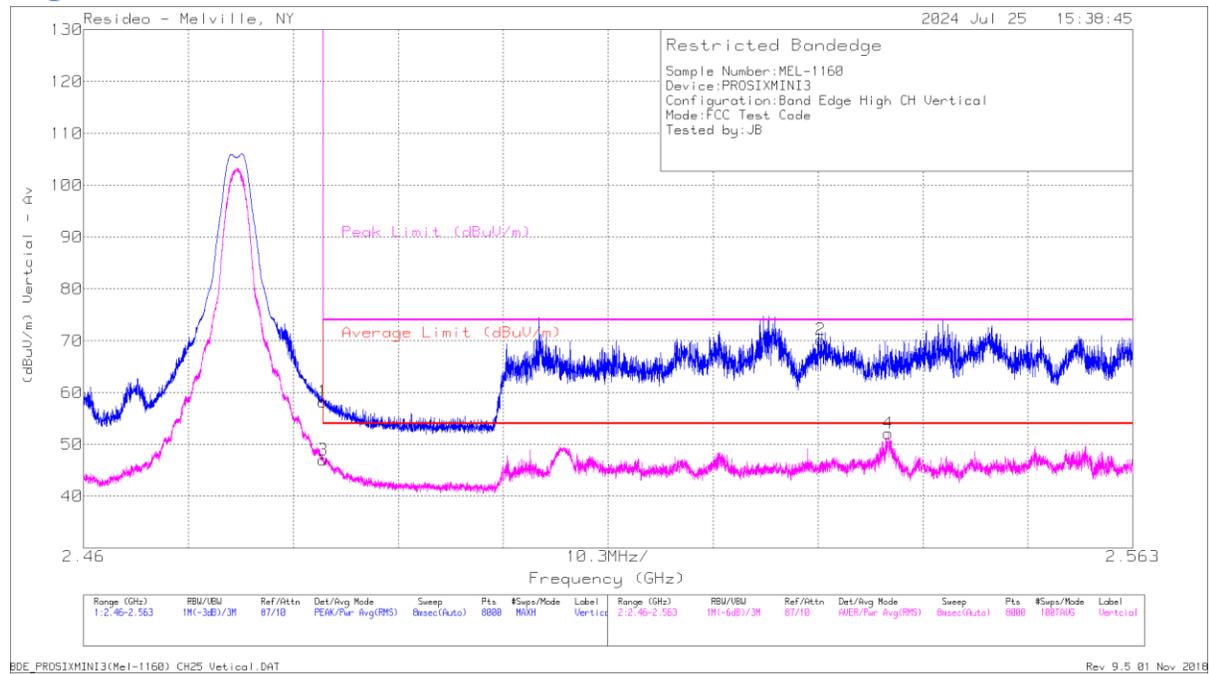
Pk - Peak detector

RMS - RMS detection

BDE\_PROSIXMINI3(Mel-1160)\_CH25\_Horizontal.DAT

Rev 9.5 01 Nov 2018

### High Channel Vertical



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF [dB/m] | Gain/Loss (dB) | DCF (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------|----------------|----------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.484         | 23.63                | Pk  | 28.7      | 5.9            |          | 58.23                      | -                      | -           | 74                  | -15.77         | 262            | 120         | V        |
| 2      | 2.532           | 35.31                | Pk  | 28.9      | 6              |          | 70.21                      | -                      | -           | 74                  | -3.79          | 262            | 120         | V        |
| 3      | * 2.484         | 12.4                 | RMS | 28.7      | 5.9            | -23.1    | 23.9                       | 54                     | -30.1       | -                   | -              | 262            | 120         | V        |
| 4      | 2.539           | 17.25                | RMS | 28.9      | 6              | -23.1    | 29.05                      | 54                     | -24.95      | -                   | -              | 262            | 120         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BDE\_PROSIXMINI3(Mel-1160)\_CH25\_Vetical.DAT

Rev 9.5 01 Nov 2018

## Spurious Radiated Emissions

### Test Description

The EUT is positioned to get the maximum emissions after a series of prescan measurements.

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1 GHz measurements and 1.5 m above the ground plane for above 1 GHz measurements. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 120 kHz for peak detection measurements and/or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9 kHz for peak and/or quasi-peak detection measurements in the 0.15-39MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements. The particular averaging method used for this test program was voltage and duty cycle correction per KDB558074 D01 15.247 V05r02, FAQ Answer 3c)

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

The EUT is set to transmit in a continuous mode.

3D antenna use – For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

### Test Criteria

| Reference                                                       | Limit                 |                             |                               |
|-----------------------------------------------------------------|-----------------------|-----------------------------|-------------------------------|
|                                                                 | Frequency Range (MHz) | Field Strength Limit (uV/m) | Measurement distance (meters) |
| CFR 47 Subpart C, 15.205<br>CFR 47 Subpart C, 15.209<br>RSS-GEN | 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                             |
|                                                                 | Above 960             | 500                         | 3                             |

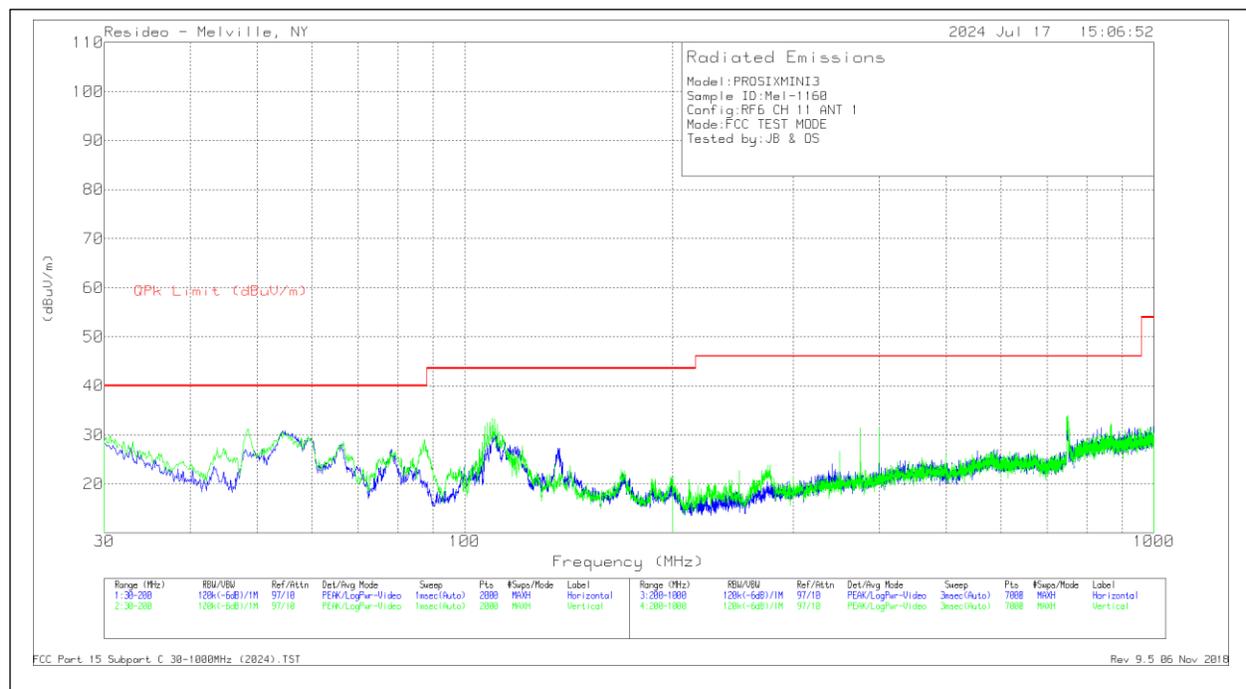
<sup>1</sup>Linear interpolation

**Test Information**

| Tester     | Test Location  | Date       | Temperature (°C) | Humidity (%RH) | Pressure (mbar) | Results (P/F) |
|------------|----------------|------------|------------------|----------------|-----------------|---------------|
| Jose Badia | Melville, OATS | 07/26/2024 | 29.5             | 50             | 1014            | Pass          |

**NOTE:** Below 30MHz, pretesting showed that no emissions as a product of the EUT were detected within 20dB of the regulatory limit. Worse-case plot/data reported from 30MHz - 1GHz and above 18GHz. Prescans performed in an anechoic chamber, final measurements performed on an OATS.

**30MHz-1GHz (Worst Case)**



| Frequency (MHz) | Meter Reading (dBuV) | Det | 2024_10mh | Gain/Loss (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------|----------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 115.0259        | 6.84                 | Qp  | 17.8      | 1.3            | 25.94                      | 43.52              | -17.58      | 11             | 205         | H        |
| 111.9178        | 9.41                 | Qp  | 17.6      | 1.3            | 28.31                      | 43.52              | -15.21      | 47             | 375         | V        |
| 48.9511         | 22.9                 | Qp  | 12.3      | .9             | 36.1                       | 40                 | -3.9        | 264            | 241         | V        |
| 748.3063        | -89.99               | Qp  | 25.2      | 3.3            | -61.49                     | 46.02              | -107.51     | 355            | 101         | H        |
| 748.3063        | 1.79                 | Qp  | 25.2      | 3.3            | 30.29                      | 46.02              | -15.73      | 355            | 101         | H        |
| 375.6174        | 4.38                 | Qp  | 19.5      | 2.4            | 26.28                      | 46.02              | -19.74      | 246            | 275         | V        |

Qp - Quasi-Peak detector

FCC Pt 15 Subpart B 30-1000MHz.TST

Rev 9.5 01 Nov 2018



1-18GHz

Low Channel data

| Frequency (GHz) | Meter Reading (dBUV) | Det  | AF [dB/m] | Gain/Loss (dB) | DCF (dB) | Corrected Reading (dBUV/m) | Avg Limit (dBUV/m) | Margin (dB) | Peak Limit (dBUV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-----------|----------------|----------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| * 4.809         | 56.72                | PK2  | 33.1      | -33.8          |          | 56.02                      | -                  | -           | 74                  | -17.98         | 62             | 130         | H        |
| * 4.809         | 52.05                | MAv1 | 33.1      | -33.8          | -23.1    | 28.25                      | 54                 | -25.75      | -                   | -              | 62             | 130         | H        |
| 7.214           | 50.9                 | PK2  | 36.2      | -30.3          |          | 56.8                       | -                  | -           | 74                  | -17.2          | 67             | 162         | H        |
| 7.214           | 44.99                | MAv1 | 36.2      | -30.3          | -23.1    | 27.79                      | 54                 | -26.21      | -                   | -              | 67             | 162         | H        |
| 9.621           | 42.26                | PK2  | 38        | -28.2          |          | 52.06                      | -                  | -           | 74                  | -21.94         | 46             | 160         | H        |
| 9.617           | 27.44                | MAv1 | 38        | -28.2          | -23.1    | 14.14                      | 54                 | -39.86      | -                   | -              | 46             | 160         | H        |
| * 12.022        | 41.48                | PK2  | 39.4      | -25.2          |          | 55.68                      | -                  | -           | 74                  | -18.32         | 8              | 191         | H        |
| * 12.026        | 26.45                | MAv1 | 39.4      | -25.2          | -23.1    | 17.55                      | 54                 | -36.45      | -                   | -              | 8              | 191         | H        |
| 16.839          | 40.23                | PK2  | 39.6      | -23.5          |          | 56.33                      | -                  | -           | 74                  | -17.67         | 3              | 276         | H        |
| 16.834          | 28.52                | MAv1 | 39.6      | -23.6          | -23.1    | 21.42                      | 54                 | -32.58      | -                   | -              | 3              | 276         | H        |
| 14.427          | 39.73                | PK2  | 42.1      | -23.7          |          | 58.13                      | -                  | -           | 74                  | -15.87         | 73             | 379         | H        |
| 14.434          | 28.26                | MAv1 | 42.1      | -23.6          | -23.1    | 23.66                      | 54                 | -30.34      | -                   | -              | 73             | 379         | H        |
| * 4.811         | 45.57                | PK2  | 33.1      | -33.8          |          | 44.87                      | -                  | -           | 74                  | -29.13         | 203            | 258         | V        |
| * 4.809         | 34.65                | MAv1 | 33.1      | -33.8          | -23.1    | 10.85                      | 54                 | -43.15      | -                   | -              | 203            | 258         | V        |
| 7.214           | 43.92                | PK2  | 36.2      | -30.3          |          | 49.82                      | -                  | -           | 74                  | -24.18         | 294            | 153         | V        |
| 7.214           | 34.72                | MAv1 | 36.2      | -30.3          | -23.1    | 17.52                      | 54                 | -36.48      | -                   | -              | 294            | 153         | V        |
| 9.622           | 41.58                | PK2  | 38        | -28.2          |          | 51.38                      | -                  | -           | 74                  | -22.62         | 163            | 253         | V        |
| 9.618           | 32.13                | MAv1 | 38        | -28.2          | -23.1    | 18.83                      | 54                 | -35.17      | -                   | -              | 163            | 253         | V        |
| * 12.029        | 38.97                | PK2  | 39.4      | -25.2          |          | 53.17                      | -                  | -           | 74                  | -20.83         | 298            | 255         | V        |
| * 12.028        | 26.98                | MAv1 | 39.4      | -25.2          | -23.1    | 18.08                      | 54                 | -35.92      | -                   | -              | 298            | 255         | V        |
| 14.433          | 41.66                | PK2  | 42.1      | -23.7          |          | 60.06                      | -                  | -           | 74                  | -13.94         | 99             | 249         | V        |
| 14.433          | 31.31                | MAv1 | 42.1      | -23.7          | -23.1    | 26.61                      | 54                 | -27.39      | -                   | -              | 99             | 249         | V        |
| 16.834          | 43.86                | PK2  | 39.6      | -23.6          |          | 59.86                      | -                  | -           | 74                  | -14.14         | 194            | 158         | V        |
| 16.834          | 28.31                | MAv1 | 39.6      | -23.6          | -23.1    | 21.21                      | 54                 | -32.79      | -                   | -              | 194            | 158         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Pt15 Subpart C 1-18GHz - Preamp In Filter In.TST

Rev 9.5 01 Nov 2018

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Middle Channel data

| Frequency (GHz) | Meter Reading (dBUV) | Det  | AF [dB/m] | Gain/Loss (dB) | DCF (dB) | Corrected Reading (dBUV/m) | Avg Limit (dBUV/m) | Margin (dB) | Peak Limit (dBUV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-----------|----------------|----------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| * 4.889         | 55.34                | PK2  | 33.2      | -34.1          |          | 54.44                      | -                  | -           | 74                  | -19.56         | 36             | 131         | H        |
| * 4.889         | 50.37                | MAv1 | 33.2      | -34.1          | -23.1    | 26.37                      | 54                 | -27.63      | -                   | -              | 36             | 131         | H        |
| * 7.337         | 48.13                | PK2  | 36.6      | -30.6          |          | 54.13                      | -                  | -           | 74                  | -19.87         | 67             | 159         | H        |
| * 7.334         | 42.1                 | MAv1 | 36.6      | -30.6          | -23.1    | 25                         | 54                 | -29         | -                   | -              | 67             | 159         | H        |
| 9.777           | 42.06                | PK2  | 38.1      | -28.3          |          | 51.86                      | -                  | -           | 74                  | -22.14         | 200            | 264         | H        |
| 9.782           | 29.43                | MAv1 | 38.1      | -28.3          | -23.1    | 16.13                      | 54                 | -37.87      | -                   | -              | 200            | 264         | H        |
| * 12.221        | 44.19                | PK2  | 39.2      | -24.8          |          | 58.59                      | -                  | -           | 74                  | -15.41         | 45             | 185         | H        |
| * 12.229        | 26.71                | MAv1 | 39.2      | -24.8          | -23.1    | 18.01                      | 54                 | -35.99      | -                   | -              | 45             | 185         | H        |
| 14.667          | 38.67                | PK2  | 42.6      | -23.8          |          | 57.47                      | -                  | -           | 74                  | -16.53         | 286            | 366         | H        |
| 14.674          | 27.68                | MAv1 | 42.6      | -23.9          | -23.1    | 23.28                      | 54                 | -30.72      | -                   | -              | 286            | 366         | H        |
| 17.119          | 43.71                | PK2  | 41.1      | -23.6          |          | 61.21                      | -                  | -           | 74                  | -12.79         | 208            | 204         | H        |
| 17.113          | 28.93                | MAv1 | 41.1      | -23.6          | -23.1    | 23.33                      | 54                 | -30.67      | -                   | -              | 208            | 204         | H        |
| * 4.891         | 48.91                | PK2  | 33.2      | -34.1          |          | 48.01                      | -                  | -           | 74                  | -25.99         | 36             | 177         | V        |
| * 4.889         | 42.43                | MAv1 | 33.2      | -34.1          | -23.1    | 18.43                      | 54                 | -35.57      | -                   | -              | 36             | 177         | V        |
| * 7.336         | 43.79                | PK2  | 36.6      | -30.6          |          | 49.79                      | -                  | -           | 74                  | -24.21         | 96             | 271         | V        |
| * 7.337         | 33.8                 | MAv1 | 36.6      | -30.6          | -23.1    | 16.7                       | 54                 | -37.3       | -                   | -              | 96             | 271         | V        |
| 9.782           | 43.32                | PK2  | 38.1      | -28.3          |          | 53.12                      | -                  | -           | 74                  | -20.88         | 347            | 275         | V        |
| 9.782           | 35.06                | MAv1 | 38.1      | -28.3          | -23.1    | 21.76                      | 54                 | -32.24      | -                   | -              | 347            | 275         | V        |



Report #: RESI-22002

|          |       |      |      |       |       |       |    |        |    |        |     |     |   |
|----------|-------|------|------|-------|-------|-------|----|--------|----|--------|-----|-----|---|
| * 12.223 | 41.96 | PK2  | 39.2 | -24.8 |       | 56.36 | -  | -      | 74 | -17.64 | 5   | 376 | V |
| * 12.229 | 26.71 | MAv1 | 39.2 | -24.8 | -23.1 | 18.01 | 54 | -35.99 | -  | -      | 5   | 376 | V |
| 14.671   | 39.66 | PK2  | 42.6 | -23.9 |       | 58.36 | -  | -      | 74 | -15.64 | 94  | 385 | V |
| 14.673   | 27.58 | MAv1 | 42.6 | -23.9 | -23.1 | 23.18 | 54 | -30.82 | -  | -      | 94  | 385 | V |
| 17.11    | 40.49 | PK2  | 41   | -23.6 |       | 57.89 | -  | -      | 74 | -16.11 | 148 | 398 | V |
| 17.114   | 28.87 | MAv1 | 41.1 | -23.6 | -23.1 | 23.27 | 54 | -30.73 | -  | -      | 148 | 398 | V |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Pt15 Subpart C 1-18GHz - Preamp In Filter In.TST

Rev 9.5 01 Nov 2018

High Channel data

| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF [dB/m] | Gain/Loss (dB) | DCF (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-----------|----------------|----------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| * 4.951         | 56.38                | PK2  | 33.2      | -34            |          | 55.58                      | -                  | -           | 74                  | -18.42         | 27             | 115         | H        |
| * 4.951         | 51.2                 | MAv1 | 33.2      | -34            | -23.1    | 27.3                       | 54                 | -26.7       | -                   | -              | 27             | 115         | H        |
| * 7.427         | 48.27                | PK2  | 36.7      | -30.4          |          | 54.57                      | -                  | -           | 74                  | -19.43         | 222            | 104         | H        |
| * 7.424         | 41.3                 | MAv1 | 36.7      | -30.4          | -23.1    | 24.5                       | 54                 | -29.5       | -                   | -              | 222            | 104         | H        |
| 9.896           | 40.38                | PK2  | 38.2      | -28.5          |          | 50.08                      | -                  | -           | 74                  | -23.92         | 232            | 262         | H        |
| 9.902           | 28.23                | MAv1 | 38.2      | -28.4          | -23.1    | 14.93                      | 54                 | -39.07      | -                   | -              | 232            | 262         | H        |
| * 12.379        | 40.4                 | PK2  | 38.9      | -24.7          |          | 54.6                       | -                  | -           | 74                  | -19.4          | 105            | 226         | H        |
| * 12.377        | 27.31                | MAv1 | 38.9      | -24.7          | -23.1    | 18.41                      | 54                 | -35.59      | -                   | -              | 105            | 226         | H        |
| 14.851          | 39.97                | PK2  | 42        | -23.6          |          | 58.37                      | -                  | -           | 74                  | -15.63         | 58             | 147         | H        |
| 14.853          | 28.18                | MAv1 | 42        | -23.6          | -23.1    | 23.48                      | 54                 | -30.52      | -                   | -              | 58             | 147         | H        |
| 17.32           | 41.15                | PK2  | 42.4      | -23.6          |          | 59.95                      | -                  | -           | 74                  | -14.05         | 58             | 147         | H        |
| 17.322          | 28.83                | MAv1 | 42.4      | -23.6          | -23.1    | 24.53                      | 54                 | -29.47      | -                   | -              | 58             | 147         | H        |
| * 4.949         | 49.01                | PK2  | 33.2      | -34            |          | 48.21                      | -                  | -           | 74                  | -25.79         | 223            | 144         | V        |
| * 4.949         | 41.83                | MAv1 | 33.2      | -34            | -23.1    | 17.93                      | 54                 | -36.07      | -                   | -              | 223            | 144         | V        |
| * 7.424         | 45.24                | PK2  | 36.7      | -30.4          |          | 51.54                      | -                  | -           | 74                  | -22.46         | 193            | 146         | V        |
| * 7.424         | 37.7                 | MAv1 | 36.7      | -30.4          | -23.1    | 20.9                       | 54                 | -33.1       | -                   | -              | 193            | 146         | V        |
| 9.898           | 41.59                | PK2  | 38.2      | -28.5          |          | 51.29                      | -                  | -           | 74                  | -22.71         | 328            | 140         | V        |
| 9.902           | 31.71                | MAv1 | 38.2      | -28.4          | -23.1    | 18.41                      | 54                 | -35.59      | -                   | -              | 328            | 140         | V        |
| * 12.375        | 38.62                | PK2  | 38.9      | -24.7          |          | 52.82                      | -                  | -           | 74                  | -21.18         | 151            | 131         | V        |
| * 12.38         | 27.34                | MAv1 | 38.9      | -24.7          | -23.1    | 18.44                      | 54                 | -35.56      | -                   | -              | 151            | 131         | V        |
| 14.851          | 39.72                | PK2  | 42        | -23.6          |          | 58.12                      | -                  | -           | 74                  | -15.88         | 178            | 184         | V        |
| 14.853          | 28.16                | MAv1 | 42        | -23.6          | -23.1    | 23.46                      | 54                 | -30.54      | -                   | -              | 178            | 184         | V        |
| 17.322          | 41.18                | PK2  | 42.4      | -23.6          |          | 59.98                      | -                  | -           | 74                  | -14.02         | 169            | 131         | V        |
| 17.32           | 28.88                | MAv1 | 42.4      | -23.6          | -23.1    | 24.58                      | 54                 | -29.42      | -                   | -              | 169            | 131         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

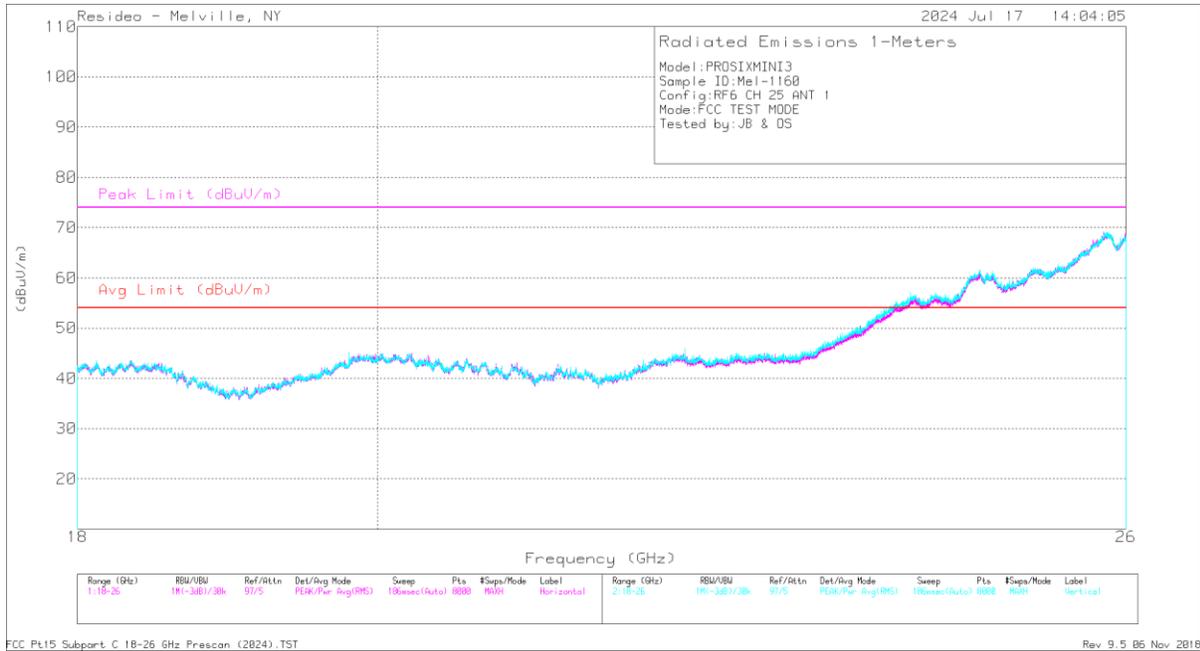
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Pt15 Subpart C 1-18GHz - Preamp In Filter In.TST

Rev 9.5 01 Nov 2018

18 – 26 GHz (Worst case)



18-26 GHz Data

| Frequency (GHz) | Meter Reading (dBuV) | Det  | 2022-3MH | Gain/Loss (dB) | DCF (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------|----------------|----------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 24.108          | 32.82                | PK2  | 45.7     | -19.8          |          | 58.72                      | -                  | -           | 74                  | -15.28         | 360            | 166         | H        |
| 24.108          | 23.27                | MAv1 | 45.7     | -19.8          | -23.1    | 26.07                      | 54                 | -27.93      | -                   | -              | 360            | 166         | H        |
| 24.686          | 34.38                | PK2  | 45.5     | -18.9          |          | 60.98                      | -                  | -           | 74                  | -13.02         | 234            | 183         | H        |
| 24.687          | 25.76                | MAv1 | 45.5     | -18.9          | -23.1    | 29.26                      | 54                 | -24.74      | -                   | -              | 234            | 183         | H        |
| 25.787          | 14.05                | Av   | 46.7     | -10.3          | -23.1    | 27.35                      | 54                 | -26.65      | -                   | -              | 128            | 247         | H        |
| 24.304          | 31.4                 | PK2  | 45.5     | -20            |          | 56.9                       | -                  | -           | 74                  | -17.1          | 128            | 247         | V        |
| 24.304          | 21.74                | MAv1 | 45.5     | -20            | -23.1    | 24.14                      | 54                 | -29.86      | -                   | -              | 128            | 247         | V        |
| 24.769          | 33.67                | PK2  | 45.6     | -18.3          |          | 60.97                      | -                  | -           | 74                  | -13.03         | 86             | 164         | V        |
| 24.769          | 23.7                 | MAv1 | 45.6     | -18.3          | -23.1    | 27.9                       | 54                 | -26.1       | -                   | -              | 86             | 164         | V        |
| 25.86           | -6.63                | Av   | 46.7     | -9.2           | -23.1    | 7.77                       | 54                 | -46.23      | -                   | -              | 155            | 133         | V        |

---

**END OF REPORT**

**Revision History**