

# EMC TEST REPORT



**Standard(s):**

**47 CFR FCC Part 15.247  
RSS 247, Issue 4, 2025**

**FCC ID: DGFPD202406  
IC: 458A-PSD202406**

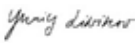
**Product: 3M™ Scott™ XT PRO PASS Alarm (BAN BLE)  
Model(s): 202406-01**

**Company Name:  
3M Company**

**Address:  
Fire & SCBA Solutions  
4320 Goldmine Road, Monroe, NC 28110**

**Report Number: HRE202510498-10  
Report Issue Date: October 1, 2026**

**Report Prepared by:**

**Signature:**   
**Yuriy Litvinov  
Lead EMC Engineer**

**Tested by:  
3M Company, Hardgoods Regulatory Engineering Laboratory  
410 E. Fillmore Avenue, Building 76  
St. Paul, Minnesota 55107-1208, USA**



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## 1.0 Test Summary

Based on the results of our investigation, we have concluded the product tested **comply** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested.

|     | Requirement – Test                                        | Test Description                          | Result      | Comments |
|-----|-----------------------------------------------------------|-------------------------------------------|-------------|----------|
| 4.1 | FCC Part 15.247(a)(2)/<br>RSS-247(6.3.1(a))/RSS-Gen (6.7) | DTS Bandwidth                             | <b>pass</b> |          |
| 4.2 | FCC Part 15.247(b)(3)/<br>RSS-247(6.3.2)                  | Maximum Peak Conducted Output Power       | <b>pass</b> |          |
| 4.3 | FCC Part 15.247(e)/<br>RSS-247(6.3.1(b))                  | Maximum Power Spectral Density level      | <b>pass</b> |          |
| 4.4 | FCC Part 15.209<br>RSS-Gen, 8.9                           | Radiated Emissions in restricted band     | <b>pass</b> |          |
| 4.5 | FCC Part 15.247(d)/<br>RSS-247(6.6)                       | Radiated Emissions in non-restricted band | <b>pass</b> |          |
| 4.6 | FCC Part 15.247(d)(1)/<br>RSS-247(6.6)                    | DTS Band-edge Emissions Measurements      | <b>pass</b> |          |
| 4.7 | FCC Part 15.207/<br>RSS-Gen (8.8)                         | Conducted Emissions                       | <b>N/A</b>  |          |
|     |                                                           |                                           |             |          |

|              |  |
|--------------|--|
| <b>Note:</b> |  |
|--------------|--|

## 1.1 Measurement Uncertainty

The measured value related to the corresponding limit will be used to decide whether the equipment meets the requirements. The measurement uncertainty figures were calculated and correspond to a coverage factor of k=2, providing a confidence level of respectively 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian).

|                                           |                        |
|-------------------------------------------|------------------------|
| Radiated emissions 30MHz to 1000MHz       | 4.9 dB                 |
| Radiated emissions 1GHz to 18GHz          | 4.6 dB                 |
| Conducted emissions 150KHz to 30MHz (AMN) | 2.7 dB                 |
| Conducted emissions 150KHz to 30MHz (AAN) | 1.92 dB                |
| RF frequency                              | $\pm 3 \times 10^{-8}$ |
| RF power, conducted                       | 1.4 dB                 |
| RF Power Spectral Density                 | 0.96 dB                |

## 1.2 Test Facility

|                                          |                                              |
|------------------------------------------|----------------------------------------------|
| <b>Test Facility<br/>Accreditations:</b> | ISO/IEC 17025:2017, NVLAP LAB CODE: 200033-0 |
|                                          | FCC US502                                    |
|                                          | ISED Canada CAB identifier: US0012           |



## 2.0 Equipment Description

|                                         |                                                                                                                                                                                                                                                                   |                                                          |                                              |                                                    |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------|----------------------------------------------------|
| 2.1                                     | Equipment Under Test                                                                                                                                                                                                                                              |                                                          |                                              |                                                    |
| Description:                            | Sensor Module Assembly: Electronics control module for battery power, audio (alarm tones), the Integrated Pak-Tracker 2.0 PCBA, Ultra-Wide Band PCBA, data logging, and the motion sensor. Sensor Module contains two antennas (IPT&BFE) controlled by RF Switch. |                                                          |                                              |                                                    |
| Model(s):                               | 202406-01                                                                                                                                                                                                                                                         |                                                          |                                              |                                                    |
| Serial number:                          | N/A                                                                                                                                                                                                                                                               |                                                          |                                              |                                                    |
| 3M Division:                            | Personal Safety                                                                                                                                                                                                                                                   |                                                          |                                              |                                                    |
| Modifications and Special Measures:     | none                                                                                                                                                                                                                                                              |                                                          |                                              |                                                    |
| Frequency Range:                        | 2402-2480MHz                                                                                                                                                                                                                                                      |                                                          |                                              |                                                    |
| Channel No.:                            | 39                                                                                                                                                                                                                                                                |                                                          |                                              |                                                    |
| Modulation Type:                        | GFSK                                                                                                                                                                                                                                                              |                                                          |                                              |                                                    |
| FCC Classification:                     | Digital Transmission System (DTS)                                                                                                                                                                                                                                 |                                                          |                                              |                                                    |
| Conducted RF Output Power:              | 1.1dBm (1.3mW)                                                                                                                                                                                                                                                    |                                                          |                                              |                                                    |
| Antenna Type and Antenna Assembly Gain: | <input type="checkbox"/> External                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> Integral PCB Antenna | <input type="checkbox"/> Dedicated           |                                                    |
|                                         | <input checked="" type="checkbox"/> 4dBi (IPT)                                                                                                                                                                                                                    | <input type="checkbox"/> Declared by the Manufacturer    | <input checked="" type="checkbox"/> Measured |                                                    |
| Test Deviations or Exclusions           | <input type="checkbox"/> Yes                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> No                   |                                              |                                                    |
| Rated Power:                            | Voltage:                                                                                                                                                                                                                                                          | <input type="checkbox"/> 120VAC                          | <input type="checkbox"/> 230VAC              | <input checked="" type="checkbox"/> 7.4VDC         |
|                                         | Phase:                                                                                                                                                                                                                                                            | <input type="checkbox"/> 1ph                             | <input type="checkbox"/> 3ph                 | <input checked="" type="checkbox"/> Li-ion Battery |
|                                         | Frequency:                                                                                                                                                                                                                                                        | <input type="checkbox"/> 50Hz                            | <input type="checkbox"/> 60Hz                |                                                    |
|                                         | Current:                                                                                                                                                                                                                                                          | N/A                                                      |                                              |                                                    |
| Test Dates:                             | 09/10-09/25/2026                                                                                                                                                                                                                                                  |                                                          |                                              |                                                    |
| Received Date:                          | 09/03/2026                                                                                                                                                                                                                                                        |                                                          |                                              |                                                    |
| Received Conditions:                    | <input type="checkbox"/> Poor                                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> Good                 |                                              |                                                    |
|                                         | <input checked="" type="checkbox"/> Prototype                                                                                                                                                                                                                     | <input type="checkbox"/> Production                      |                                              |                                                    |

### 3.0 EUT Configuration

#### 3.1 System Configuration

| No. | Product Type | Manufacturer   | Model         | Comments          |
|-----|--------------|----------------|---------------|-------------------|
| 1   | EUT          | 3M             | 202406-01     |                   |
| 2   | Battery      | Inventus Power | 902-09531-001 | Li-ion/7.4VDC     |
| 3   | Notebook PC  | HP             | Zbook         | Support Equipment |

#### 3.2 Input/Output Ports of EUT

| No. | Description            | Type   | Comments                          |
|-----|------------------------|--------|-----------------------------------|
| 1   | Pressure Transducer    | 12 pin | Bulkhead Mount Circular Connector |
| 2   | Sensor Module, Console | 11 pin | Bulkhead Mount Circular Connector |

#### 3.3 Cables

| No. | Description    | Type         | Length | Shielding | Comments |
|-----|----------------|--------------|--------|-----------|----------|
| 1   | Control Cables | Twisted Pair | 1m     | Yes       |          |
| 2   |                |              |        |           |          |

#### 3.4 Measurement Arrangements of EUT

|                                     | Intended Operational Arrangement(s) | Comments  |
|-------------------------------------|-------------------------------------|-----------|
| <input checked="" type="checkbox"/> | Table-top only                      |           |
| <input type="checkbox"/>            | Floor-standing only                 |           |
| <input type="checkbox"/>            | Floor-standing or table-top         |           |
| <input checked="" type="checkbox"/> | Other                               | Body-worn |

#### 3.5 Exercising of EUT and Interfaces

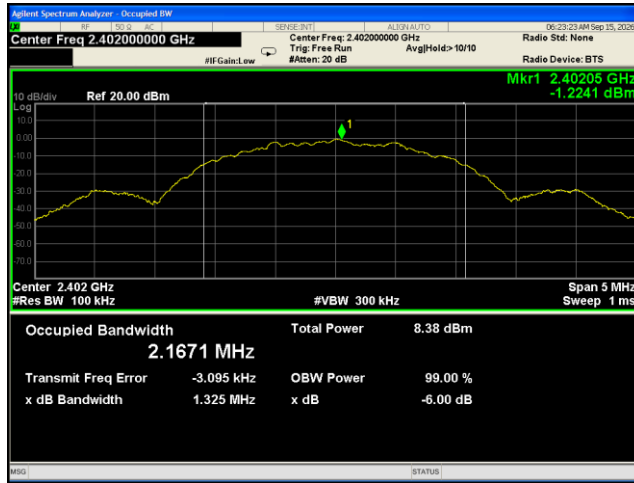
| No. | Mode of Operation                                                                                                                                                                                                              |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Transmitting at lowest, middle and highest channels of operation using modulated carrier at each operation mode according to applicable Bluetooth test protocol (Body Area Network -2mbps)                                     |
| 2   | Device programming over Python 3.14.0 Terminal Software using SCBA Radio Testing GUI ver. 1.2.0 provided by the manufacturer for continuous transmission of modulated carrier at maximum rated RF output power and Duty Cycle. |
|     |                                                                                                                                                                                                                                |

|           |                          |                                                                       |              |
|-----------|--------------------------|-----------------------------------------------------------------------|--------------|
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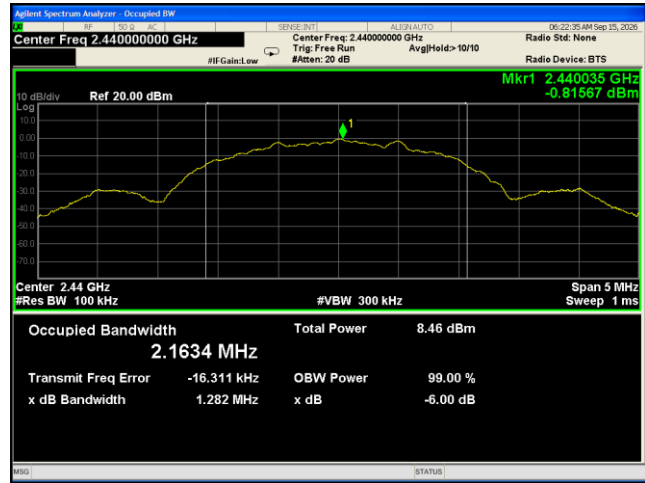
#### 4.0 Test Conditions and Results

|                        |                                                                                                                                                                                       |                                                                                                         |                  |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------|
| 4.1                    | DTS Bandwidth                                                                                                                                                                         |                                                                                                         |                  |
|                        |                                                                                                                                                                                       | Laboratory Ambient Temperature:                                                                         | 23°C             |
|                        |                                                                                                                                                                                       | Relative Humidity:                                                                                      | 48%              |
|                        |                                                                                                                                                                                       | Atmospheric Pressure:                                                                                   | 1011 mbars       |
| Reference Standard(s): | <input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.8.2<br><input checked="" type="checkbox"/> FCC Part 15.247/RSS 247<br><input checked="" type="checkbox"/> KDB 558074 | Measurement Point<br><input checked="" type="checkbox"/> Conducted<br><input type="checkbox"/> Radiated |                  |
| Frequency Range:       | <input checked="" type="checkbox"/> 2402-2480.0MHz                                                                                                                                    | RBW = 100KHz (FCC Part 15)<br>RBW = 100KHz (RSS-Gen)<br>VBW ≥ 3 x RBW                                   |                  |
| Nominal Voltage:       |                                                                                                                                                                                       | <input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 7.4VDC                              |                  |
| Test Personnel:        | Yuriy Litvinov <i>Yuriy Litvinov</i>                                                                                                                                                  |                                                                                                         | Date: 09/15/2026 |

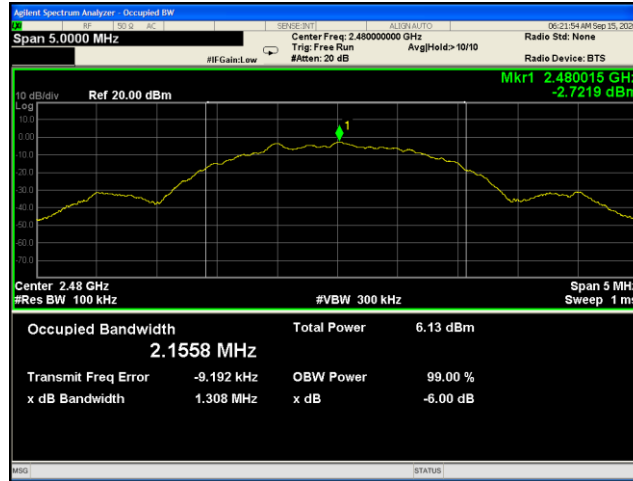
| Frequency (MHz) | Data Rate | RSS Gen<br>99% dB Bandwidth<br>(KHz) | FCC Part 15.247<br>6 dB Bandwidth<br>(KHz) | 6dB OBW Limit<br>(KHz) | Results |
|-----------------|-----------|--------------------------------------|--------------------------------------------|------------------------|---------|
| 2402            | 2mbps     | 2167                                 | 1325                                       | > 500                  | pass    |
| 2440            | 2mbps     | 2163                                 | 1282                                       | > 500                  | pass    |
| 2480            | 2mbps     | 2156                                 | 1308                                       | > 500                  | pass    |



OBW – BLE Low Channel



OBW – BLE Mid Channel

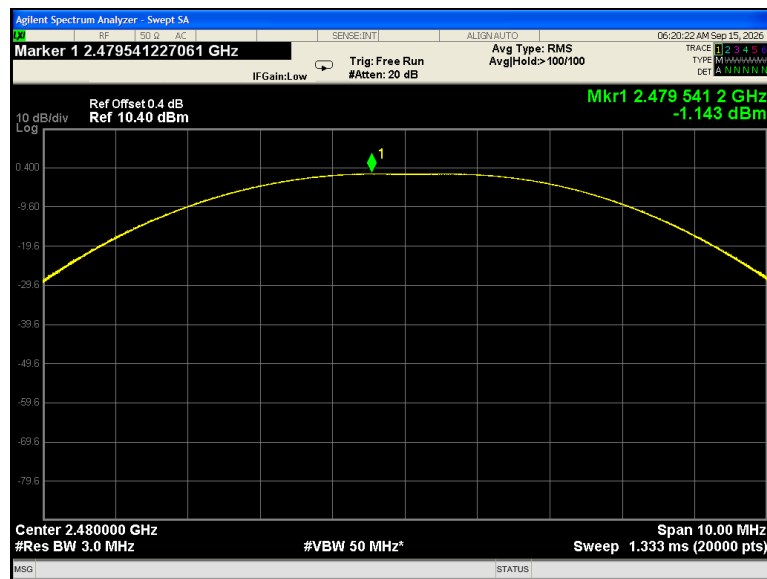
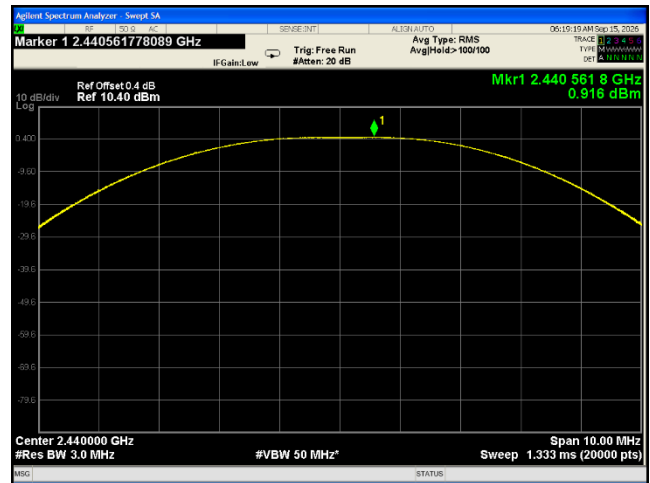
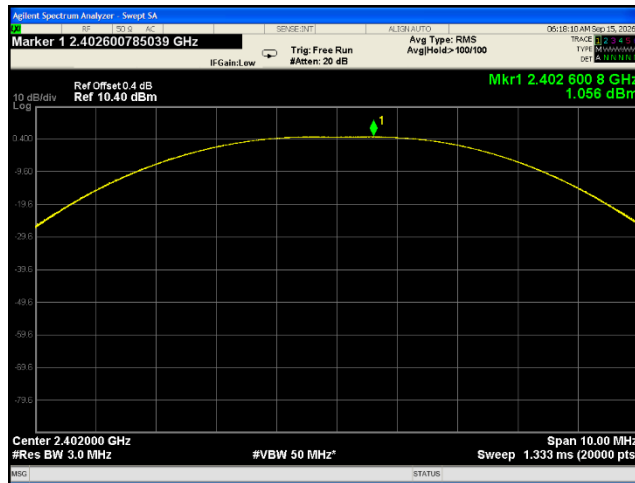


OBW – BLE High Channel

|           |                          |                                                                       |              |
|-----------|--------------------------|-----------------------------------------------------------------------|--------------|
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|                        |                                                                                                                                                                                                             |                                                                            |                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 4.2                    | Maximum Output Power                                                                                                                                                                                        |                                                                            |                                                                                                         |
| Method:                | Measurements were performed with CW carrier at the highest power level at which the transmitter is intended to operate. The analyzer offset was adjusted to compensate for the attenuator and other losses. |                                                                            |                                                                                                         |
|                        |                                                                                                                                                                                                             | Laboratory Ambient Temperature:                                            | 23°C                                                                                                    |
|                        |                                                                                                                                                                                                             | Relative Humidity:                                                         | 48%                                                                                                     |
|                        |                                                                                                                                                                                                             | Atmospheric Pressure:                                                      | 1011 mbars                                                                                              |
| Reference Standard(s): | <input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.9<br><input checked="" type="checkbox"/> FCC Part 15.247/RSS 247<br><input checked="" type="checkbox"/> KDB 558074                         |                                                                            | Measurement Point<br><input checked="" type="checkbox"/> Conducted<br><input type="checkbox"/> Radiated |
| Frequency Range:       | <input checked="" type="checkbox"/> 2402-2480.0MHz                                                                                                                                                          |                                                                            |                                                                                                         |
| Antenna Gain:          | 4.0dBi                                                                                                                                                                                                      |                                                                            | Maximum Conducted RMS Power:                                                                            |
| Limit:                 | 30 dBm                                                                                                                                                                                                      |                                                                            | 1.1dBm (1.3mW)                                                                                          |
| Nominal Voltage:       |                                                                                                                                                                                                             | <input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 7.4VDC |                                                                                                         |
| Test Personnel:        | Yuriy Litvinov <i>Yuriy Litvinov</i>                                                                                                                                                                        |                                                                            | Date: 09/15/2026                                                                                        |

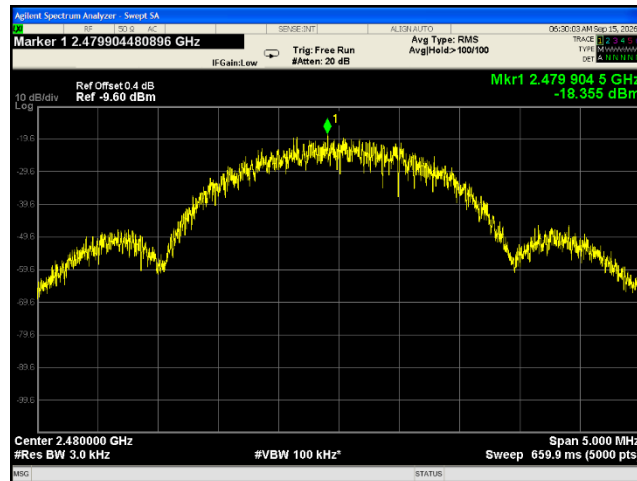
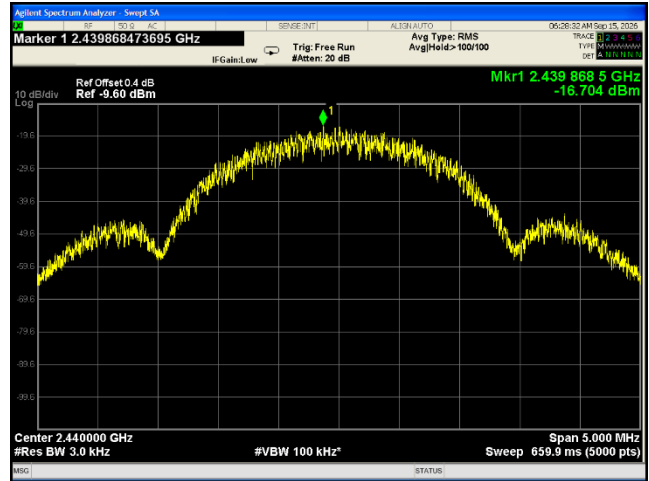
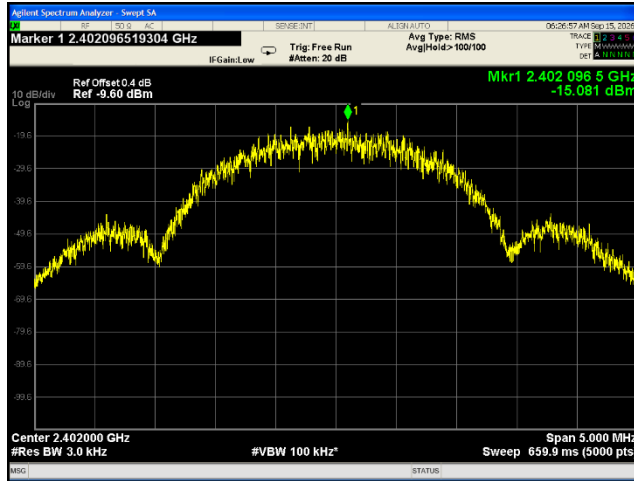
|              |                                                                        |
|--------------|------------------------------------------------------------------------|
| <b>Note:</b> | EIRP (dBm) = Conducted Power (dBm) +Antenna Gain (dBi)= 1.1+4.0=5.1dBm |
|--------------|------------------------------------------------------------------------|



Conducted RF Power

|           |                          |                                                                       |               |
|-----------|--------------------------|-----------------------------------------------------------------------|---------------|
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|                               |                                                                                                                                                                                                                   |                                                                                                                |  |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--|
| <b>4.3</b>                    | <b>Maximum Power Spectral Density level</b>                                                                                                                                                                       |                                                                                                                |  |
| <b>Method:</b>                | Measurements was performed with modulated carrier at the highest power level at which the transmitter is intended to operate. The analyzer offset was adjusted to compensate for the attenuator and other losses. |                                                                                                                |  |
|                               | Laboratory Ambient Temperature:                                                                                                                                                                                   | 23°C                                                                                                           |  |
|                               | Relative Humidity:                                                                                                                                                                                                | 48%                                                                                                            |  |
|                               | Atmospheric Pressure:                                                                                                                                                                                             | 1011 mbars                                                                                                     |  |
| <b>Reference Standard(s):</b> | <input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.10.2<br><input checked="" type="checkbox"/> FCC Part 15.247/RSS 247<br><input checked="" type="checkbox"/> KDB 558074                            | <b>Measurement Point</b><br><input checked="" type="checkbox"/> Conducted<br><input type="checkbox"/> Radiated |  |
| <b>Frequency Range:</b>       | <input checked="" type="checkbox"/> 2425.0 MHz                                                                                                                                                                    | <b>PSD Results</b>                                                                                             |  |
| <b>PSD Limit:</b>             | 8 dBm in any 3KHz band                                                                                                                                                                                            | -15dBm                                                                                                         |  |
| <b>Nominal Voltage:</b>       | <input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 7.4VDC                                                                                                                                        |                                                                                                                |  |
| <b>Test Personnel:</b>        | Yuriy Litvinov <i>Yuriy Litvinov</i>                                                                                                                                                                              | <b>Date:</b> 09/15/2026                                                                                        |  |



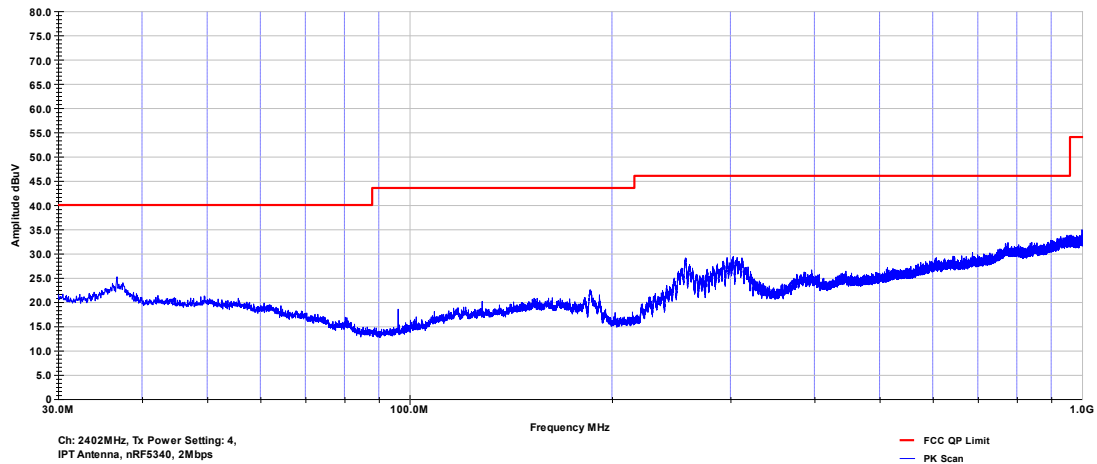
| <b>4.4</b>                                                    | <b>Radiated Emissions in restricted band</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                                                                                                                                                                          |                         |         |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|
| <b>Method:</b>                                                | Measurements were made in a 3-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4 standards. EUT was rotated through three orthogonal axes to determine which attitude (orientation) and arrangement produces the highest emission relative to the limit; the attitude and device arrangement that produces the highest emission relative to the limit was used in making final radiated emission measurements. Spurious Radiated emissions measurements were performed with external preamp and a high pass filter. Final measurements were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable. |             |                                                                                                                                                                          |                         |         |
| <b>Test Verification:</b> <input checked="" type="checkbox"/> | Laboratory Ambient Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | 23°C                                                                                                                                                                     |                         |         |
|                                                               | Relative Humidity:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 55%                                                                                                                                                                      |                         |         |
|                                                               | Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             | 1011 mbars                                                                                                                                                               |                         |         |
| <b>Reference Standard(s):</b>                                 | <input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.12.1<br><input checked="" type="checkbox"/> FCC Part 15.205/15.209/RSS Gen (8.9)<br><input checked="" type="checkbox"/> KDB 558074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | <b>Measurement Distance</b>                                                                                                                                              |                         |         |
|                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | <input checked="" type="checkbox"/> 3 Meters <input type="checkbox"/> <span style="background-color: #cccccc; display: inline-block; width: 50px; height: 15px;"></span> |                         |         |
| <b>Frequency Range:</b>                                       | <input checked="" type="checkbox"/> 30 MHz to 1 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | RBW = 100KHz, VBW ≥ 3 x RBW                                                                                                                                              |                         |         |
|                                                               | <input checked="" type="checkbox"/> 1 GHz to 25 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | RBW = 1MHz, VBW ≥ 3 x RBW                                                                                                                                                |                         |         |
| <b>Nominal Voltage:</b>                                       | <input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 9VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                                                                                                                                                                          |                         |         |
| <b>Test Personnel:</b>                                        | Jayden Alstad <i>J.A.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                                                                                                                                          | <b>Date:</b> 09/25/2026 |         |
| <b>Limits –15.209 and RSS Gen</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                          |                         |         |
| Frequency (MHz)                                               | Limit dB (µV/m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                          | Distance                | Results |
|                                                               | Quasi-Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Average     | Peak                                                                                                                                                                     |                         |         |
| 0.009-0.490                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2400/F(KHz) |                                                                                                                                                                          | 300                     | N/A     |
| 0.490-1.705                                                   | 24000/F(KHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                                                                                                                                                                          | 30                      | N/A     |
| 1.705-30                                                      | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                                                                                          | 30                      | N/A     |
| 30 to 88                                                      | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                                                                                          | 3                       | pass    |
| 88 to 216                                                     | 43.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                                                                                                                                                          | 3                       | pass    |
| 216 to 960                                                    | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                                                                                          | 3                       | pass    |
| Above 960                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 54          | 74                                                                                                                                                                       | 3                       | pass    |

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Modifications:</b> | <span style="background-color: #cccccc; display: inline-block; width: 50px; height: 15px;"></span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Note:</b>          | <p>The lower limit applies at the transition frequency. An inverse proportionality factor of 20 dB per decade has been used to normalize the measured data to the specified distance for determining compliance</p> <p>For emission in the restricted bands, the limit of 15.209 was used.</p> <p>There are no emissions were detected in the 15.205 restricted band within 30dB below 15.209 limit adjacent or nearby to 2400-2483.5MHz frequency band during operation at the high channel.</p> <p>No radiated spurious emissions were detected above 18GHz</p> |



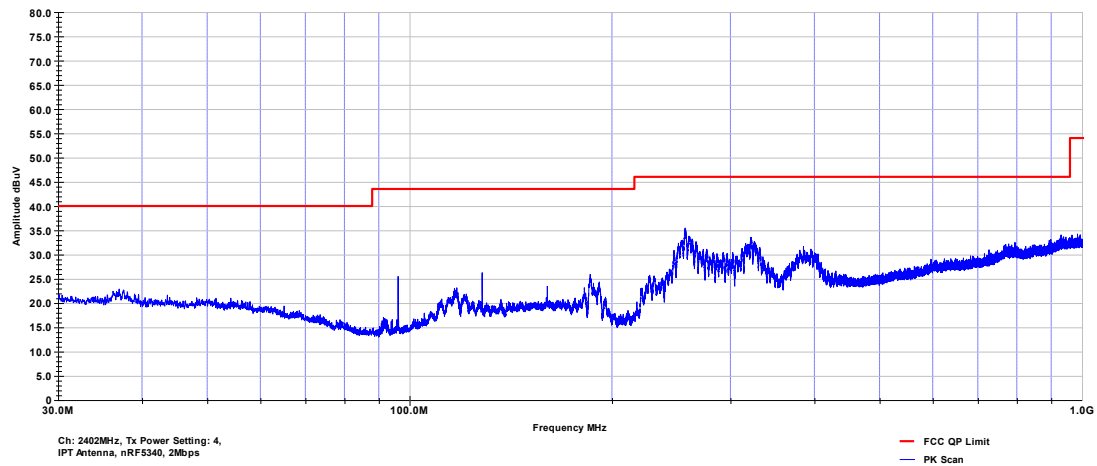
**3M Company**  
**Radiated Emissions Pre-scan**  
 FCC Part 15, Class B, Vertical

Project# - HRE202510498  
 Model # - XT2025  
 Serial # - N/A  
 EUT Power - 7.4VDC (battery)

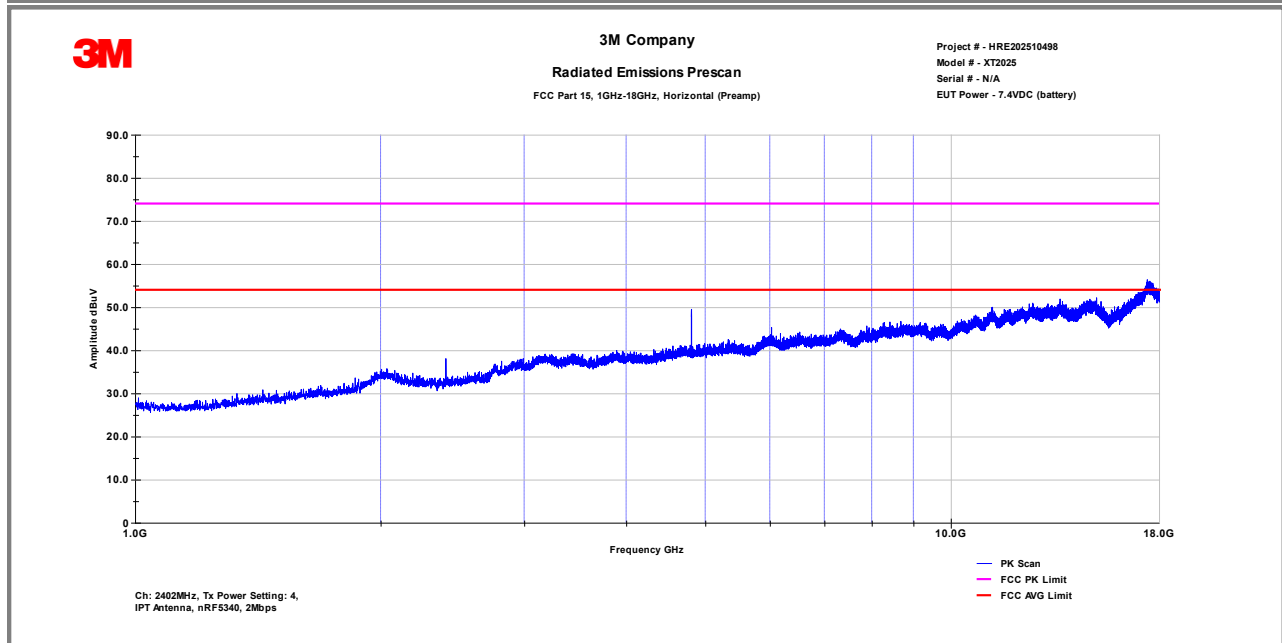
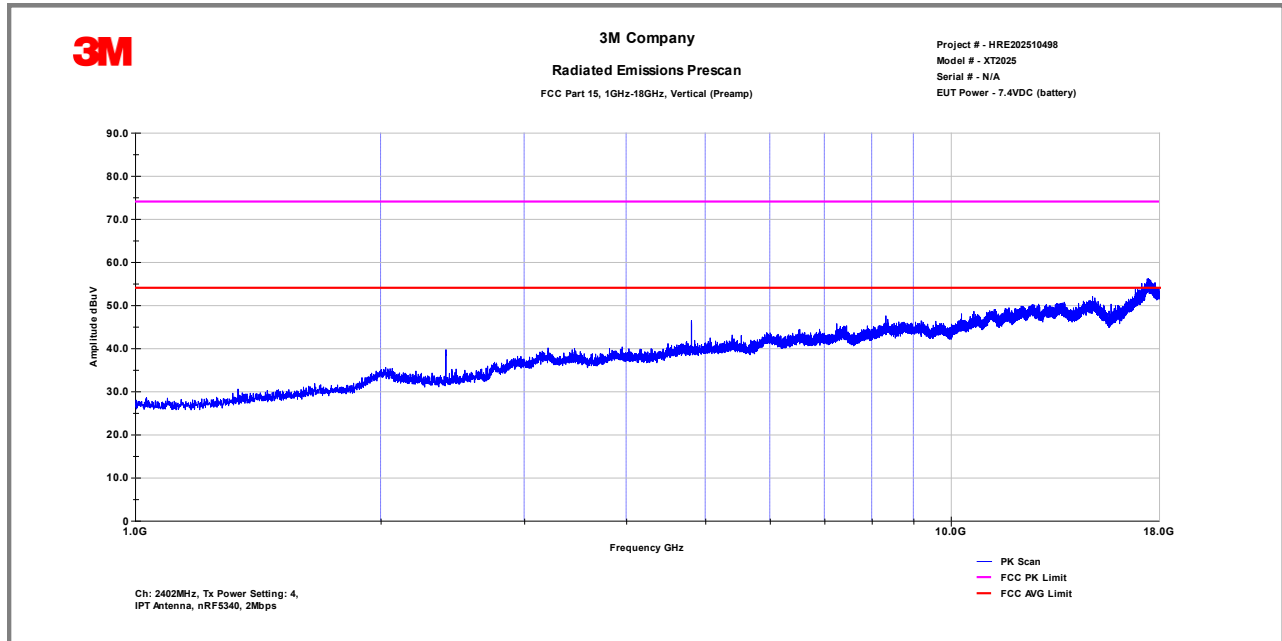


**3M Company**  
**Radiated Emissions Pre-scan**  
 FCC Part 15, Class B, Horizontal

Project# - HRE202510498  
 Model # - XT2025  
 Serial # - N/A  
 EUT Power - 7.4VDC (battery)



FCC Part 15.209 Radiated Emissions in restricted band - IPT Antenna, Low Ch.

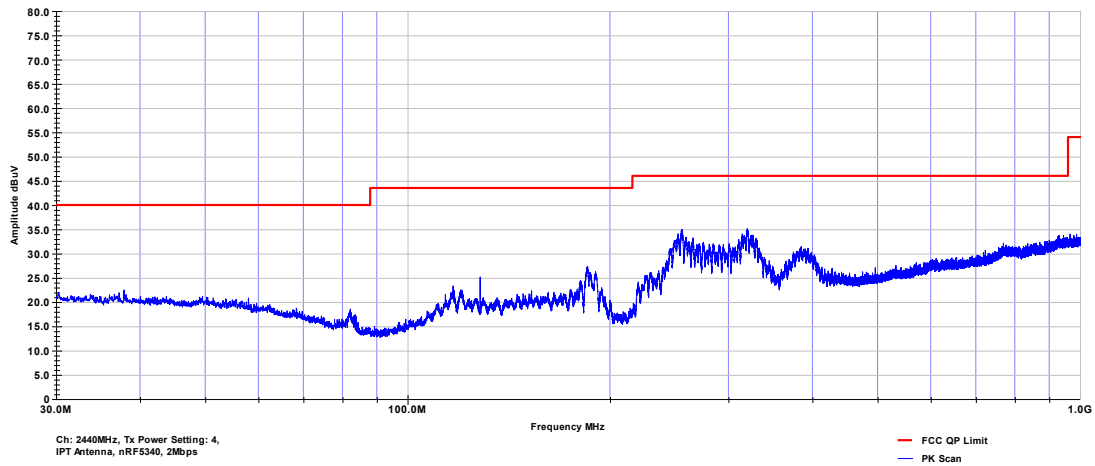


FCC Part 15.209 Radiated Emissions in restricted band - IPT Antenna, Low Ch.



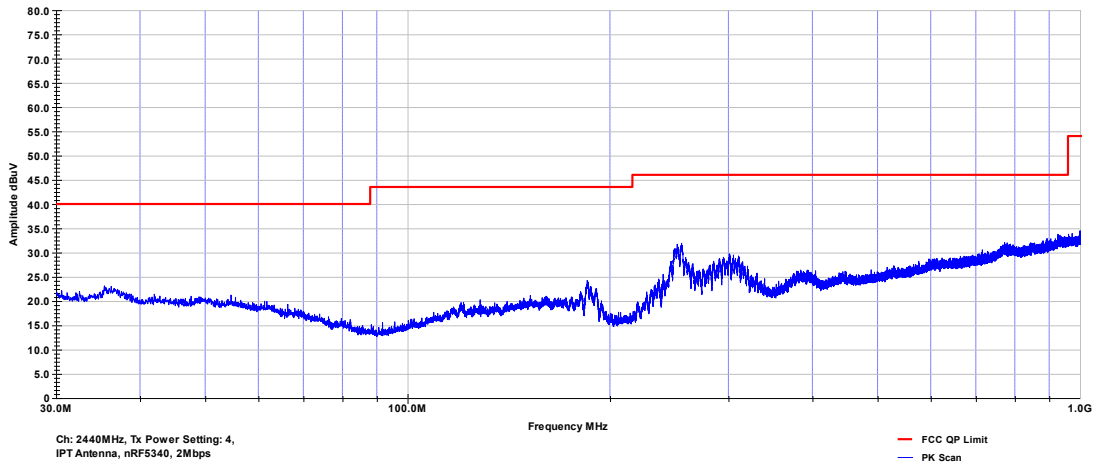
**3M Company**  
**Radiated Emissions Pre-scan**  
 FCC Part 15, Class B, Horizontal

Project # - HRE202510498  
 Model # - XT2025  
 Serial # - N/A  
 EUT Power - 7.4VDC (battery)



**3M Company**  
**Radiated Emissions Pre-scan**  
 FCC Part 15, Class B, Vertical

Project # - HRE202510498  
 Model # - XT2025  
 Serial # - N/A  
 EUT Power - 7.4VDC (battery)



FCC Part 15.209 Radiated Emissions in restricted band - IPT Antenna, Mid Ch.

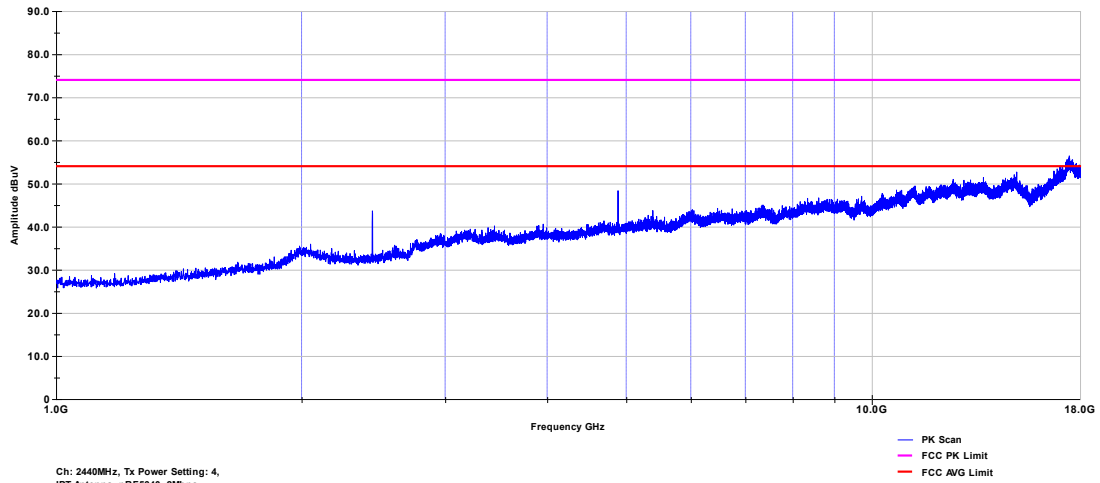


**3M Company**

**Radiated Emissions Prescan**

FCC Part 15, 1GHz-18GHz, Vertical (Preamp)

Project # - HRE202510498  
 Model # - XT2025  
 Serial # - N/A  
 EUT Power - 7.4VDC (battery)

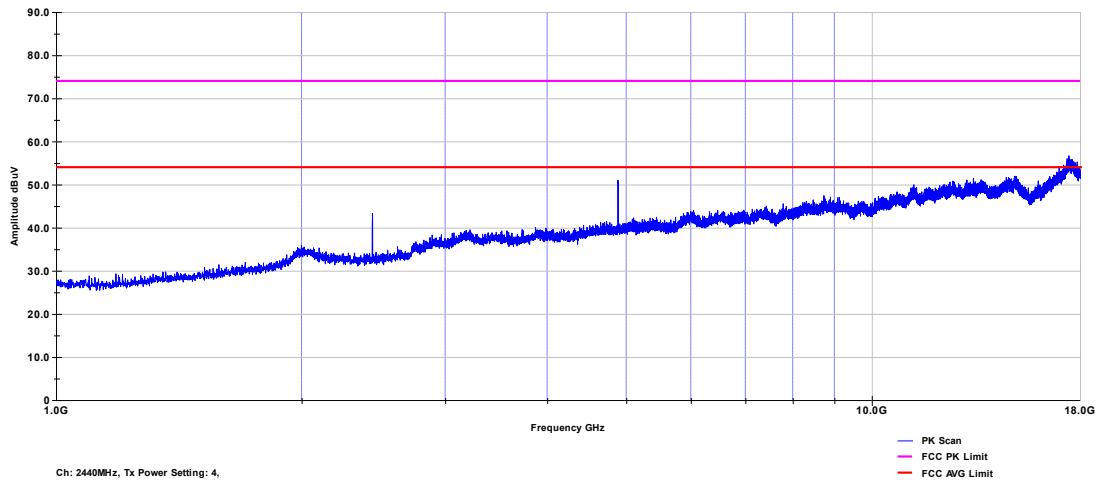


**3M Company**

**Radiated Emissions Prescan**

FCC Part 15, 1GHz-18GHz, Horizontal (Preamp)

Project # - HRE202510498  
 Model # - XT2025  
 Serial # - N/A  
 EUT Power - 7.4VDC (battery)

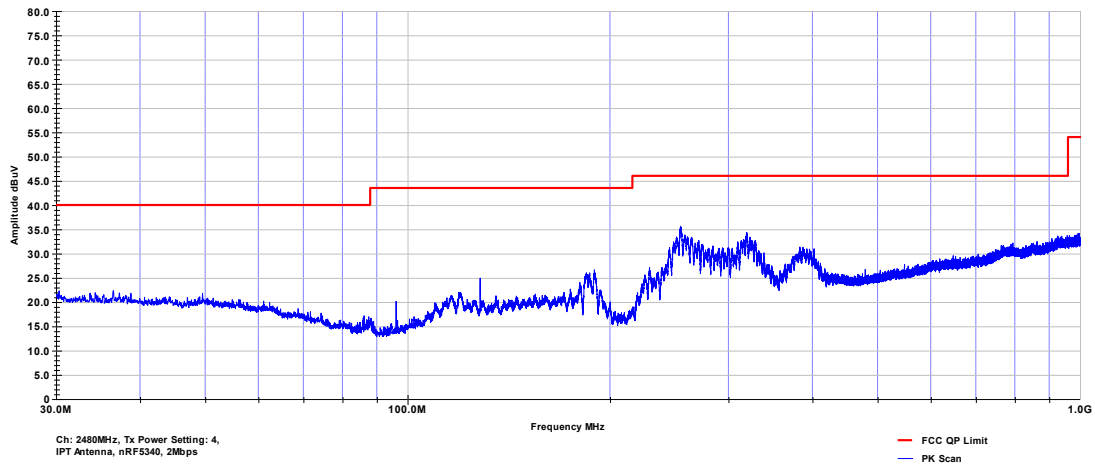


FCC Part 15.209 Radiated Emissions in restricted band - IPT Antenna, Mid Ch.



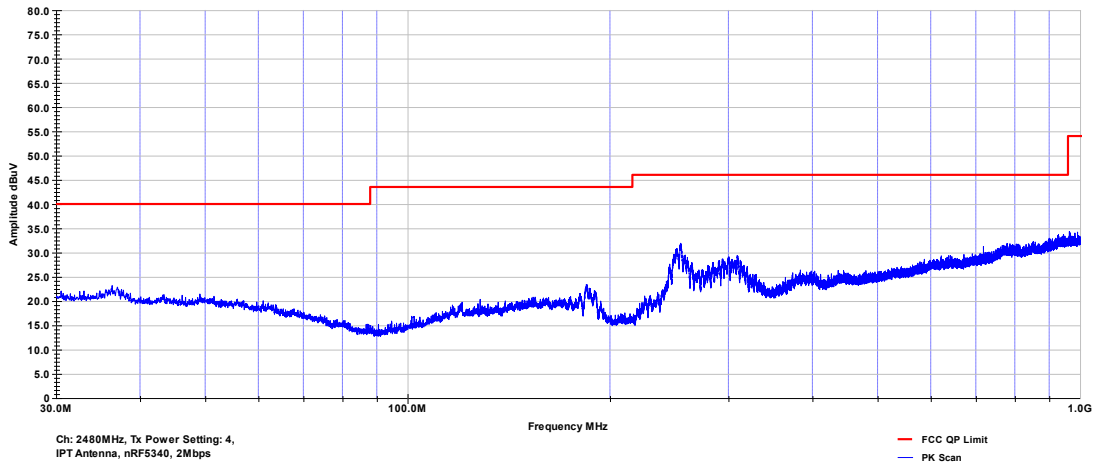
**3M Company**  
**Radiated Emissions Pre-scan**  
 FCC Part 15, Class B, Horizontal

Project # - HRE202510498  
 Model # - XT2025  
 Serial # - N/A  
 EUT Power - 7.4VDC (battery)



**3M Company**  
**Radiated Emissions Pre-scan**  
 FCC Part 15, Class B, Vertical

Project # - HRE202510498  
 Model # - XT2025  
 Serial # - N/A  
 EUT Power - 7.4VDC (battery)



FCC Part 15.209 Radiated Emissions in restricted band - IPT Antenna, High Ch.

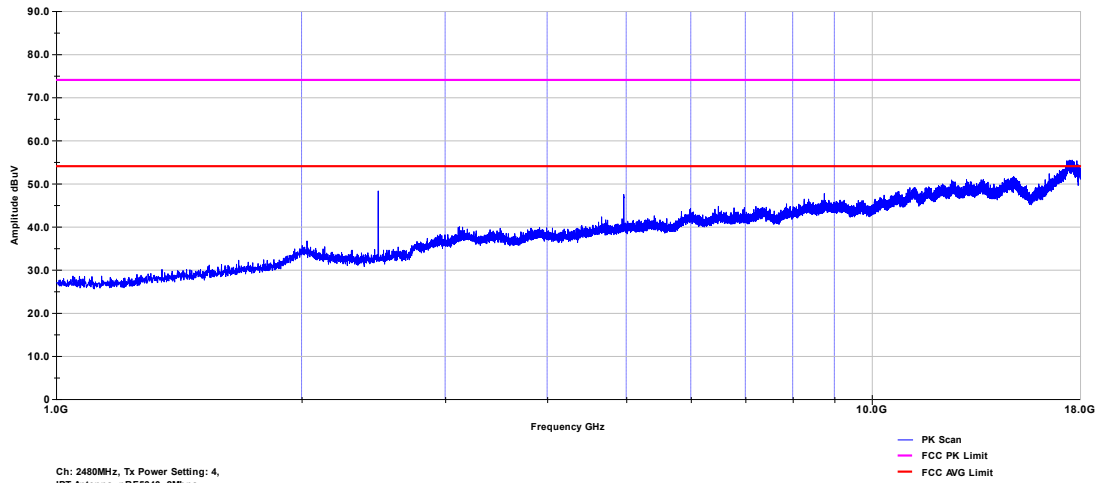


**3M Company**

**Radiated Emissions Prescan**

FCC Part 15, 1GHz-18GHz, Vertical (Preamp)

Project # - HRE202510498  
 Model # - XT2025  
 Serial # - N/A  
 EUT Power - 7.4VDC (battery)

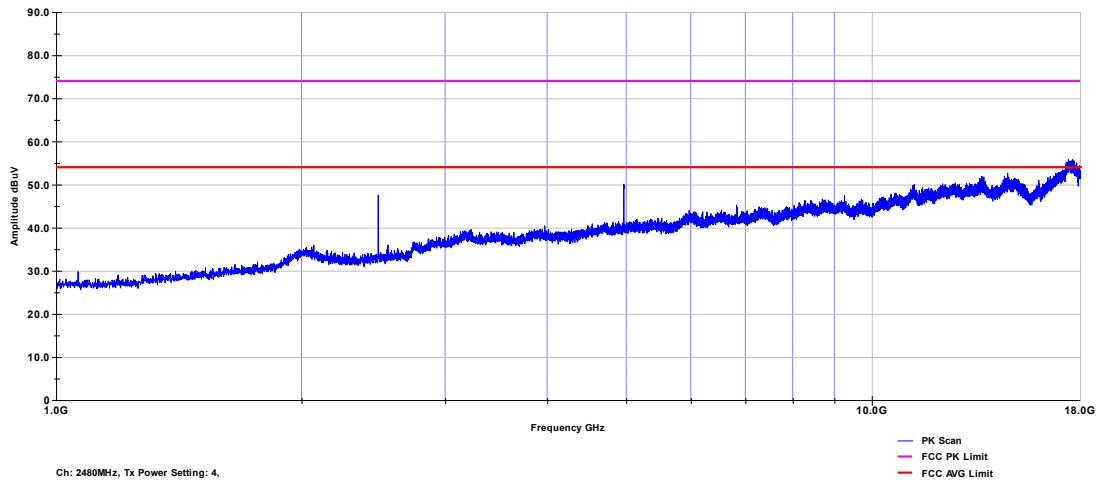


**3M Company**

**Radiated Emissions Prescan**

FCC Part 15, 1GHz-18GHz, Horizontal (Preamp)

Project # - HRE202510498  
 Model # - XT2025  
 Serial # - N/A  
 EUT Power - 7.4VDC (battery)



FCC Part 15.209 Radiated Emissions in restricted band - IPT Antenna, High Ch.



Tables - Radiated Emissions in restricted band

| Frequency (MHz) | Pol.                                                                                                                          | QP Reading dB $\mu$ V/m | Total CF dB | Net at 3 m dB $\mu$ V/m | Limit (dB $\mu$ V/m) | Margin dB |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------|-------------------------|----------------------|-----------|
| 127.46          | H                                                                                                                             | 2.8                     | 16.2        | 19                      | 43.5                 | -24.5     |
| 255.68          | H                                                                                                                             | 14.4                    | 17          | 31.4                    | 46                   | -14.6     |
| 321.14          | H                                                                                                                             | 10.1                    | 19.4        | 29.5                    | 46                   | -16.5     |
| 383.72          | H                                                                                                                             | 7                       | 20.9        | 27.8                    | 46                   | -18.2     |
|                 |                                                                                                                               |                         |             |                         |                      |           |
|                 |                                                                                                                               |                         |             |                         |                      |           |
| Notes:          | Net Reading (dB $\mu$ V) = Reading (dB $\mu$ V) + Antenna CF(dB)+Cable CF(dB) – Amp Gain(dB)<br>BLE Low Channel – IPT Antenna |                         |             |                         |                      |           |

| Frequency (MHz) | Pol.                                                                                                                          | QP Reading dB $\mu$ V/m | Total CF dB | Net at 3 m dB $\mu$ V/m | Limit (dB $\mu$ V/m) | Margin dB |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------|-------------------------|----------------------|-----------|
| 184.7           | H                                                                                                                             | 6.8                     | 16.6        | 23.4                    | 43.5                 | -20.1     |
| 255.59          | H                                                                                                                             | 13.3                    | 17          | 30.4                    | 46                   | -15.6     |
| 318.74          | H                                                                                                                             | 10.4                    | 19.4        | 29.8                    | 46                   | -16.2     |
| 384.62          | H                                                                                                                             | 4.8                     | 21          | 25.8                    | 46                   | -20.2     |
|                 |                                                                                                                               |                         |             |                         |                      |           |
|                 |                                                                                                                               |                         |             |                         |                      |           |
| Notes:          | Net Reading (dB $\mu$ V) = Reading (dB $\mu$ V) + Antenna CF(dB)+Cable CF(dB) – Amp Gain(dB)<br>BLE Mid Channel – IPT Antenna |                         |             |                         |                      |           |

| Frequency (MHz) | Pol.                                                                                                                           | QP Reading dB $\mu$ V/m | Total CF dB | Net at 3 m dB $\mu$ V/m | Limit (dB $\mu$ V/m) | Margin dB |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------|-------------------------|----------------------|-----------|
| 188.93          | H                                                                                                                              | 4.6                     | 16          | 20.6                    | 43.5                 | -22.9     |
| 255.2           | H                                                                                                                              | 12.1                    | 17          | 29.1                    | 46                   | -16.9     |
| 319.31          | H                                                                                                                              | 9.8                     | 19.4        | 29.2                    | 46                   | -16.8     |
| 381.65          | H                                                                                                                              | 7.3                     | 20.8        | 28.1                    | 46                   | -17.9     |
|                 |                                                                                                                                |                         |             |                         |                      |           |
|                 |                                                                                                                                |                         |             |                         |                      |           |
| Notes:          | Net Reading (dB $\mu$ V) = Reading (dB $\mu$ V) + Antenna CF(dB)+Cable CF(dB) – Amp Gain(dB)<br>BLE High Channel – IPT Antenna |                         |             |                         |                      |           |

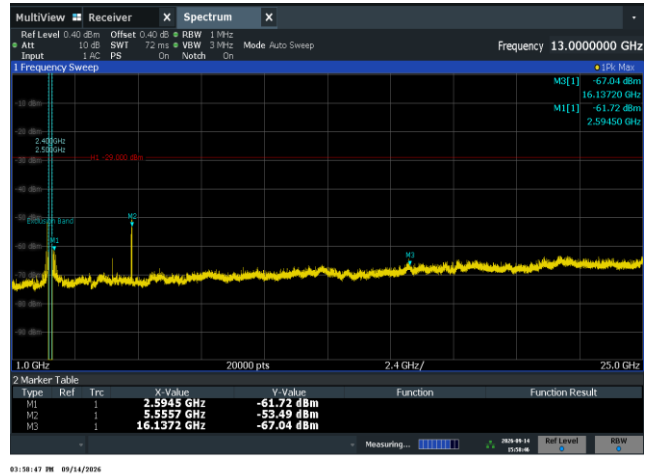
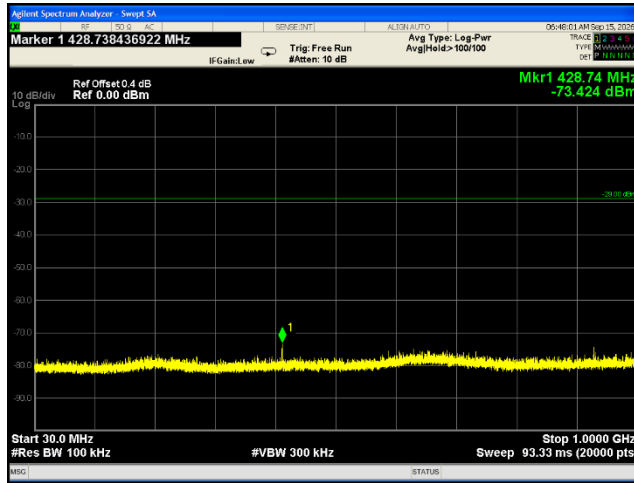
### Tables - Radiated Emissions in restricted band

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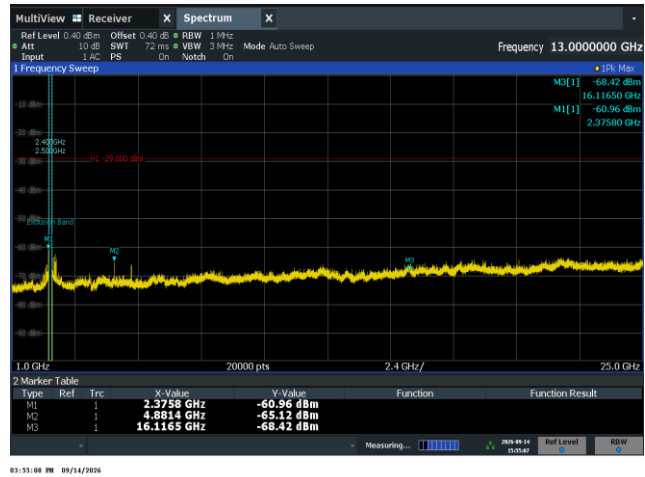
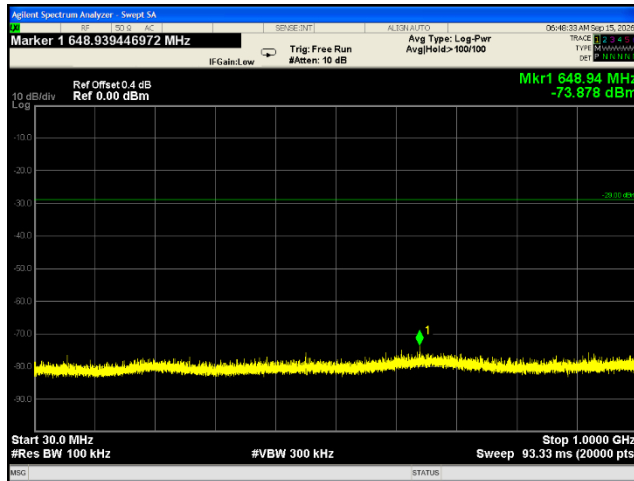
|           |                          |                                                                       |               |
|-----------|--------------------------|-----------------------------------------------------------------------|---------------|
| <b>3M</b> | <b>3M EMC Laboratory</b> | <b>Report Number:</b> HRE202510498-10<br><b>Date:</b> October 1, 2026 | Page 21 of 25 |
|-----------|--------------------------|-----------------------------------------------------------------------|---------------|

|                                 |                                                                                                                                                                                      |                                                                                                                |  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--|
| <b>4.5</b>                      | <b>Radiated Emissions in non-restricted band</b>                                                                                                                                     |                                                                                                                |  |
| <b>Method:</b>                  | The measurements were made with transmitter set to transmit continuously.                                                                                                            |                                                                                                                |  |
|                                 | Laboratory Ambient Temperature:                                                                                                                                                      | 23°C                                                                                                           |  |
|                                 | Relative Humidity:                                                                                                                                                                   | 48%                                                                                                            |  |
|                                 | Atmospheric Pressure:                                                                                                                                                                | 1011 mbars                                                                                                     |  |
| <b>Reference Standard(s):</b>   | <input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.11<br><input checked="" type="checkbox"/> FCC Part 15.247/RSS 247<br><input checked="" type="checkbox"/> KDB 558074 | <b>Measurement Point</b><br><input checked="" type="checkbox"/> Conducted<br><input type="checkbox"/> Radiated |  |
| <b>Frequency Range:</b>         | <input checked="" type="checkbox"/> 2402-2480.0 MHz                                                                                                                                  |                                                                                                                |  |
| <b>In-band power in 100KHz:</b> | <input checked="" type="checkbox"/> 1.1dBm                                                                                                                                           | <b>Results:</b>                                                                                                |  |
| <b>Limit:</b>                   | <input checked="" type="checkbox"/> -28.9dBm (30dBc below in-band power)                                                                                                             | >60dBc                                                                                                         |  |
| <b>Nominal Voltage:</b>         | <input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 7.4VDC                                                                                                           |                                                                                                                |  |
| <b>Test Personnel:</b>          | Yuriy Litvinov <i>Yuriy Litvinov</i>                                                                                                                                                 | <b>Date:</b> 09/15/2026                                                                                        |  |

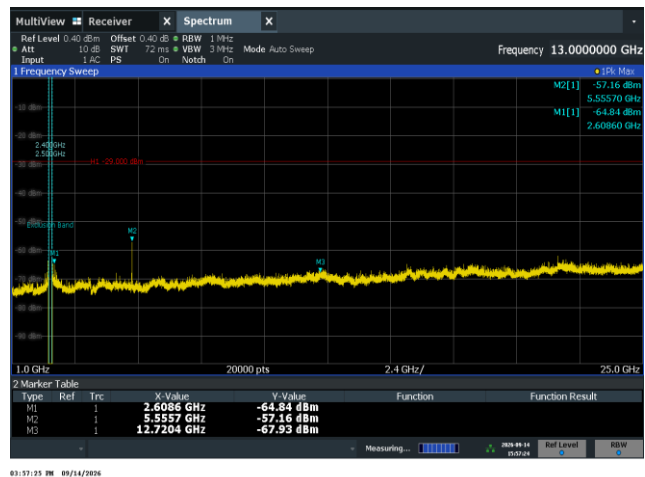
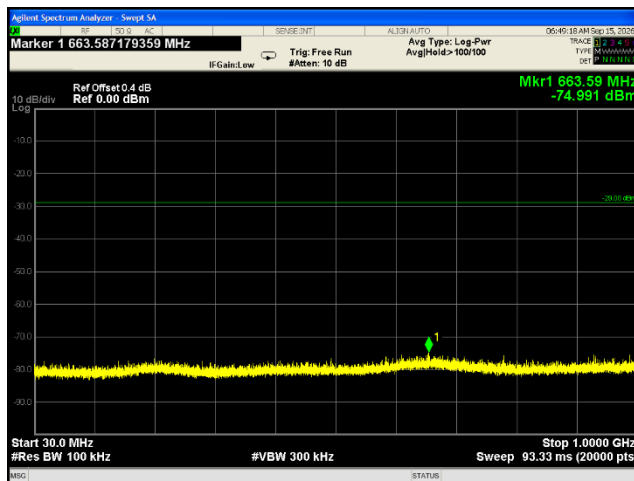
|              |                                                                   |
|--------------|-------------------------------------------------------------------|
| <b>Note:</b> | A notch filter was installed to prevent system overload at 2.4GHz |
|--------------|-------------------------------------------------------------------|



Conducted Spurious – Low Ch.



Conducted Spurious – Mid Ch.

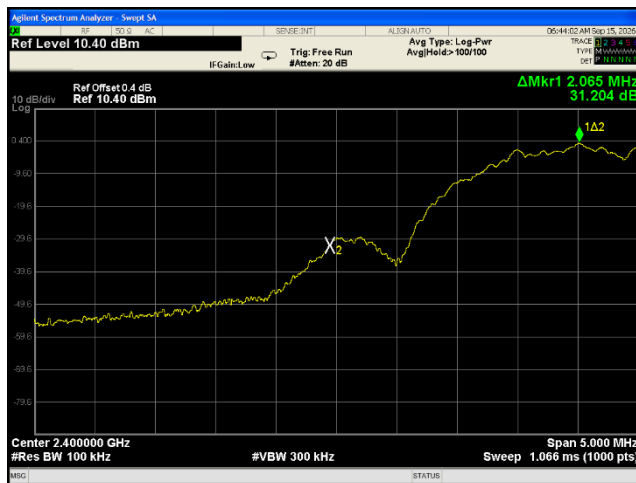
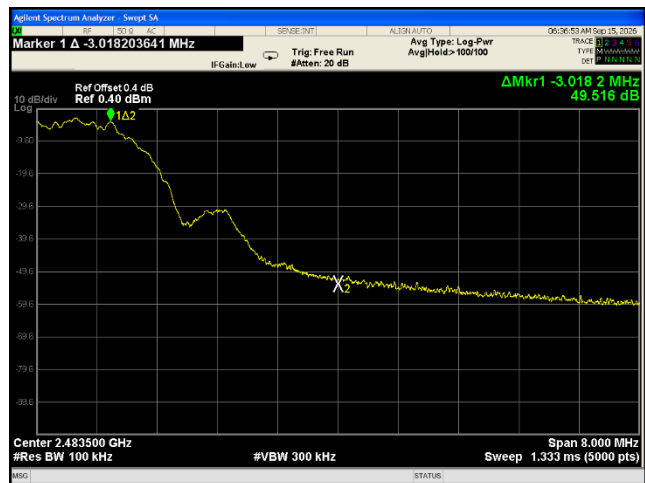


Conducted Spurious- High Ch.



|                                                                                                          |                                                                                                                                                                                                                   |                                                                                                                                |                  |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------|
| 4.6                                                                                                      | Band-Edge Compliance                                                                                                                                                                                              |                                                                                                                                |                  |
| Method:                                                                                                  | The measurements were made with transmitter set to transmit continuously with modulated signal at low and high channels.                                                                                          |                                                                                                                                |                  |
|                                                                                                          | Laboratory Ambient Temperature:                                                                                                                                                                                   | 23°C                                                                                                                           |                  |
|                                                                                                          | Relative Humidity:                                                                                                                                                                                                | 48%                                                                                                                            |                  |
|                                                                                                          | Atmospheric Pressure:                                                                                                                                                                                             | 1011 mbars                                                                                                                     |                  |
| Reference Standard(s):                                                                                   | <div><input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.13.2</div> <div><input checked="" type="checkbox"/> FCC Part 15.247/RSS 247</div> <div><input checked="" type="checkbox"/> KDB 558074</div> | <b>Measurement Point</b> <div><input checked="" type="checkbox"/> Conducted</div> <div><input type="checkbox"/> Radiated</div> |                  |
| Frequency Range:                                                                                         | <div><input checked="" type="checkbox"/> 2402-2480.0MHz</div>                                                                                                                                                     | <b>Results</b>                                                                                                                 |                  |
| Limit:                                                                                                   | <div><input checked="" type="checkbox"/> &gt;30dBc</div>                                                                                                                                                          | Low, 2402 MHz > 31dBc<br>High, 2480 MHz > 49.5dBc                                                                              |                  |
| Nominal Voltage: <div><input type="checkbox"/> 120VAC   <input checked="" type="checkbox"/> 7.4VDC</div> |                                                                                                                                                                                                                   |                                                                                                                                |                  |
| Test Personnel:                                                                                          | Yuriy Litvinov <i>Yuriy Litvinov</i>                                                                                                                                                                              |                                                                                                                                | Date: 09/15/2026 |

Note:

Band Edge - Low  
Center Freq. 2.400GHzBand Edge - High  
Center Freq. 2.4835GHz

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                      |                                                                                                                                            |          |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>4.7</b>                                         | <b>Conducted Emissions Data</b>                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                      |                                                                                                                                            |          |
| <b>Method:</b>                                     | The AMN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the AMN. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN. |                                                                                                                                      |                                                                                                                                            |          |
|                                                    | All power was connected to the system through Artificial Mains Network (AMN). All tested telecommunications lines were connected to an Asymmetric Artificial Network (AAN) and conducted voltage measurements on telecommunications lines were made at the output of the ISN. Where an AAN was not appropriate or available measurements were made using a Capacitive Voltage Probe.                                                |                                                                                                                                      |                                                                                                                                            |          |
| <b>Test Verification:</b> <input type="checkbox"/> |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Laboratory Ambient Temperature:                                                                                                      |                                                                                                                                            |          |
|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Relative Humidity:                                                                                                                   |                                                                                                                                            |          |
|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Atmospheric Pressure:                                                                                                                |                                                                                                                                            |          |
| <b>Reference Standard(s):</b>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> RSS Gen/FCC 15.207<br><input type="checkbox"/> ANSI C63.4:2014<br><input type="checkbox"/> ANSI C63.10:2020 | <b>Measurement Point</b><br><input type="checkbox"/> Mains<br><input type="checkbox"/> Telecommunication ports<br><input type="checkbox"/> |          |
| <b>Nominal Voltage:</b>                            |                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> 120VAC <input type="checkbox"/> 230VAC <input type="checkbox"/> VDC                                         |                                                                                                                                            |          |
| <b>Test Personnel:</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                      | <b>Date:</b>                                                                                                                               |          |
| <b>Limits – Part 15.207/RSS Gen – AC Mains</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                      |                                                                                                                                            |          |
| Frequency (MHz)                                    | Limit dB (µV)                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                      |                                                                                                                                            |          |
|                                                    | Quasi-Peak                                                                                                                                                                                                                                                                                                                                                                                                                          | Average                                                                                                                              | Result                                                                                                                                     | Comments |
| 0.15 to 0.50                                       | 66 to 56                                                                                                                                                                                                                                                                                                                                                                                                                            | 56 to 46                                                                                                                             | <b>N/A</b>                                                                                                                                 |          |
| 0.50 to 5                                          | 56                                                                                                                                                                                                                                                                                                                                                                                                                                  | 46                                                                                                                                   | <b>N/A</b>                                                                                                                                 |          |
| 5 to 30                                            | 60                                                                                                                                                                                                                                                                                                                                                                                                                                  | 50                                                                                                                                   | <b>N/A</b>                                                                                                                                 |          |

|                       |  |
|-----------------------|--|
| <b>Modifications:</b> |  |
| <b>Note:</b>          |  |

| 5.0                             | Test Equipment  |                                                                                  |            |                |                                     |
|---------------------------------|-----------------|----------------------------------------------------------------------------------|------------|----------------|-------------------------------------|
| Test Equipment Used             |                 |                                                                                  |            |                |                                     |
| Description                     | Manufacturer    | Model                                                                            | Identifier | Last Cal. Date | Check                               |
| Biconilog Antenna               | Schwarzbeck     | VULB 9168                                                                        | 9168-1070  | 10/20/2025     | <input checked="" type="checkbox"/> |
| Horn Antenna                    | A.H. Systems    | SAS 571                                                                          | 1010       | 10/20/2025     | <input checked="" type="checkbox"/> |
| Loop Antenna                    | A.H. Systems    | EHA-51B                                                                          | 1213E      | 10/20/2025     | <input type="checkbox"/>            |
| EMI Receiver                    | Rohde & Schwarz | ESW26                                                                            | 101412     | 10/20/2025     | <input checked="" type="checkbox"/> |
| Signal Analyzer                 | Agilent         | N9000A                                                                           | MY53031040 | 10/20/2025     | <input checked="" type="checkbox"/> |
| EMI Receiver                    | Agilent         | E4448A                                                                           | 1530975    | 10/20/2025     | <input checked="" type="checkbox"/> |
| LISN                            | TESEQ           | NNB51                                                                            | 1130       | 10/20/2025     | <input type="checkbox"/>            |
| Coaxial Cable                   | Insulated Wire  | 2803                                                                             | CBL2039    | 10/20/2025     | <input checked="" type="checkbox"/> |
| EMC Software                    | ETS-Lindgren    | TILE 8                                                                           |            | N/A            | <input checked="" type="checkbox"/> |
| Equipment Calibration Interval: |                 | <input checked="" type="checkbox"/> 12 months <input type="checkbox"/> 24 months |            |                |                                     |

| 6.0            | Report revision history |                 |                |
|----------------|-------------------------|-----------------|----------------|
| Revision Level | Date                    | Report Number   | Notes          |
| 0              | 10/01/2026              | HRE202510498-10 | Original Issue |
|                |                         |                 |                |
|                |                         |                 |                |