

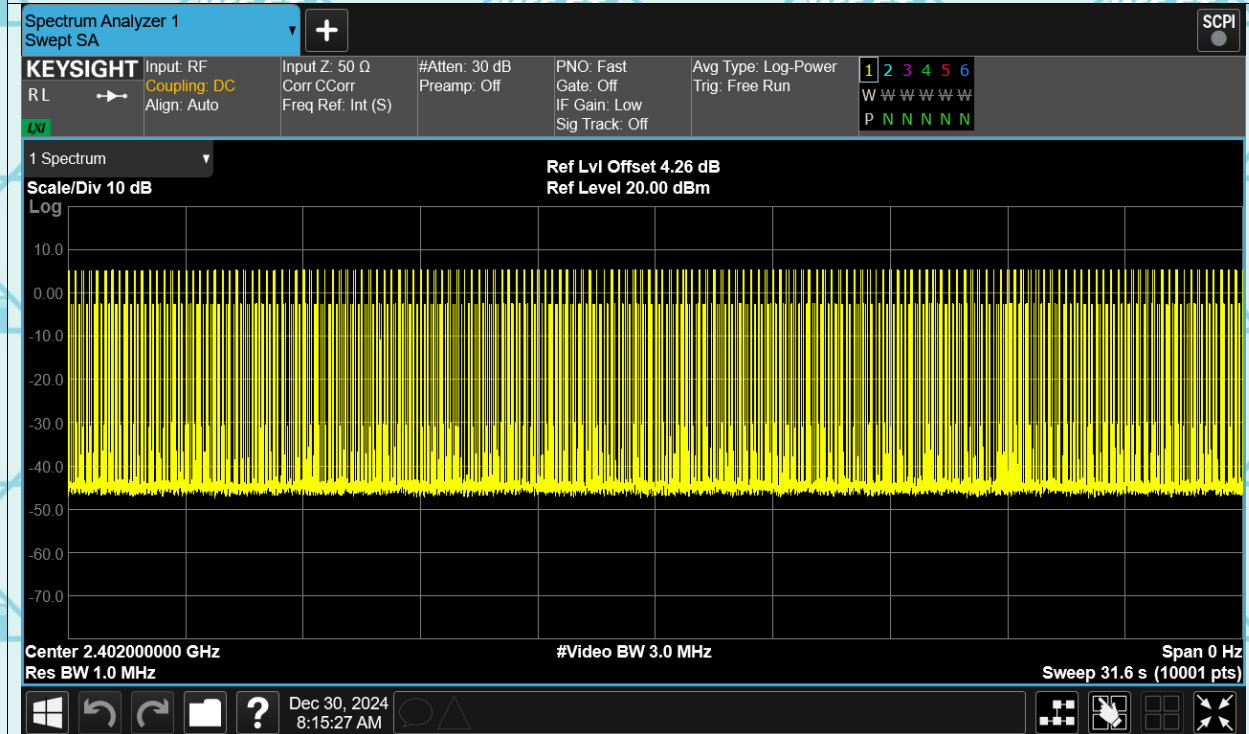
Report No.: WSCT-ANAB-R&E241200078A-BT

## Test Graphs

### Dwell 1-DH1 2402MHz One Burst

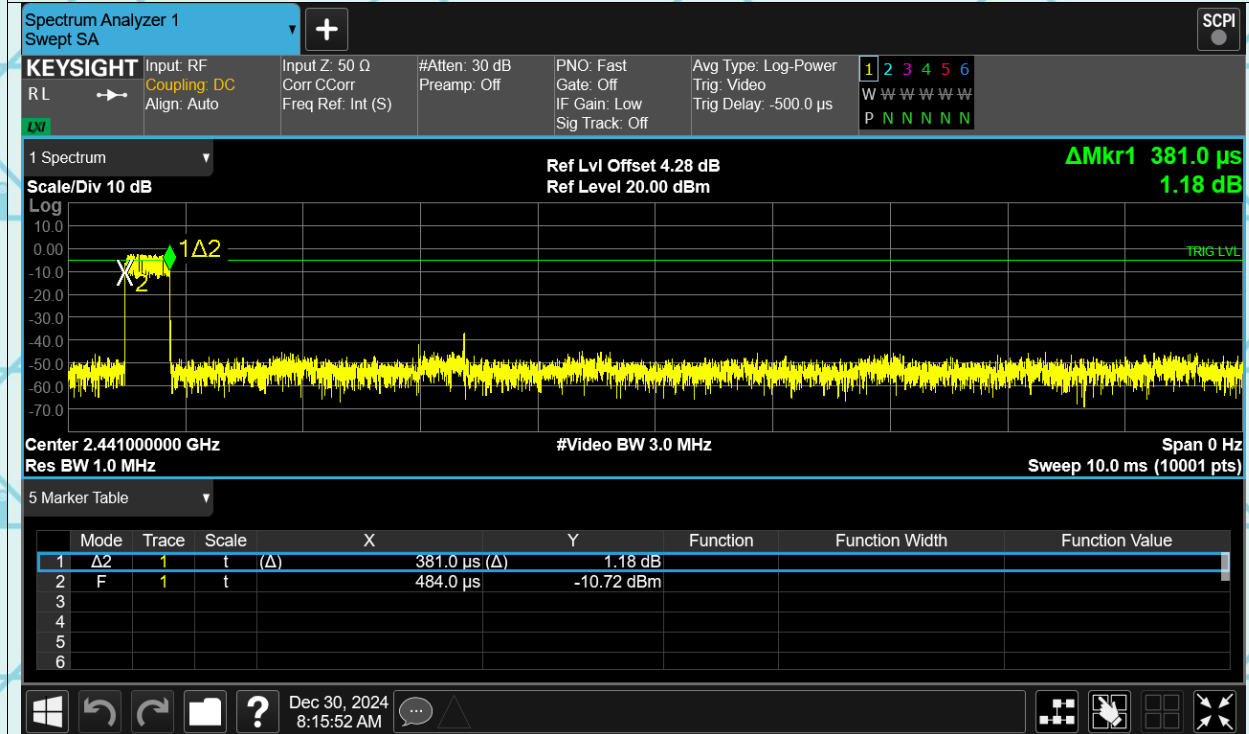


### Dwell 1-DH1 2402MHz Accumulated

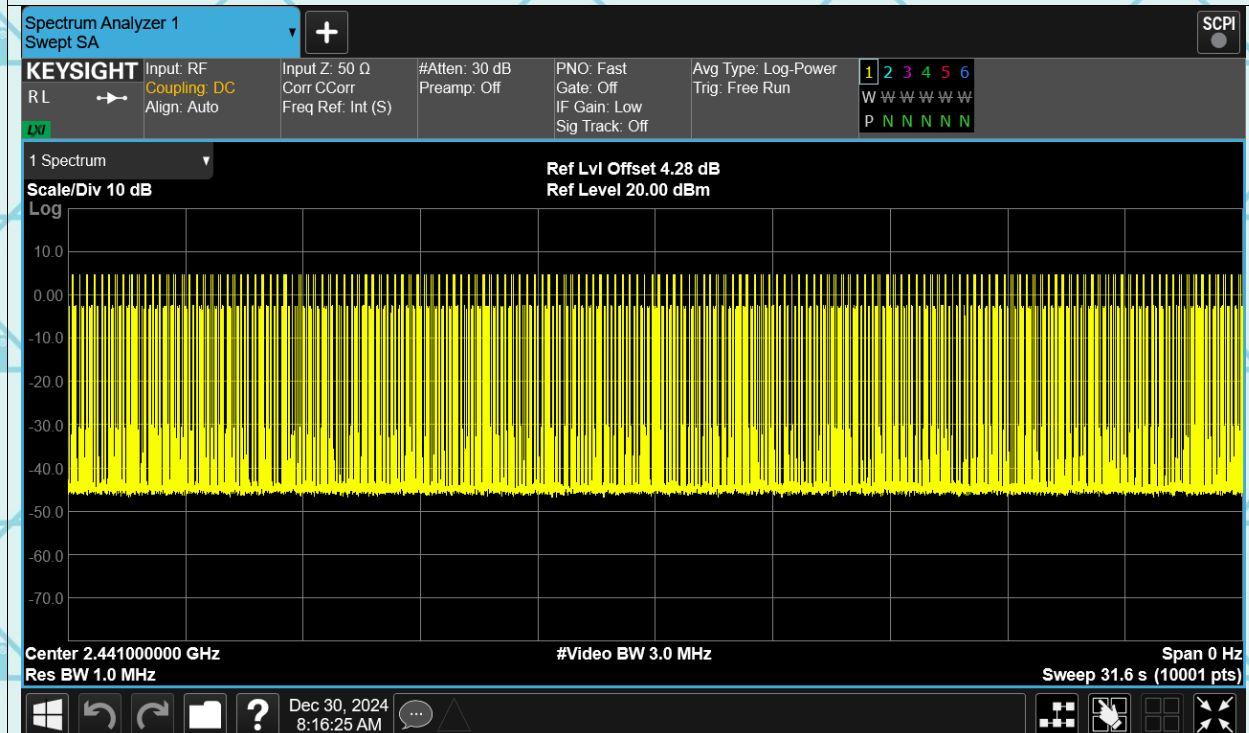


Report No.: WSCT-ANAB-R&E241200078A-BT

### Dwell 1-DH1 2441MHz One Burst

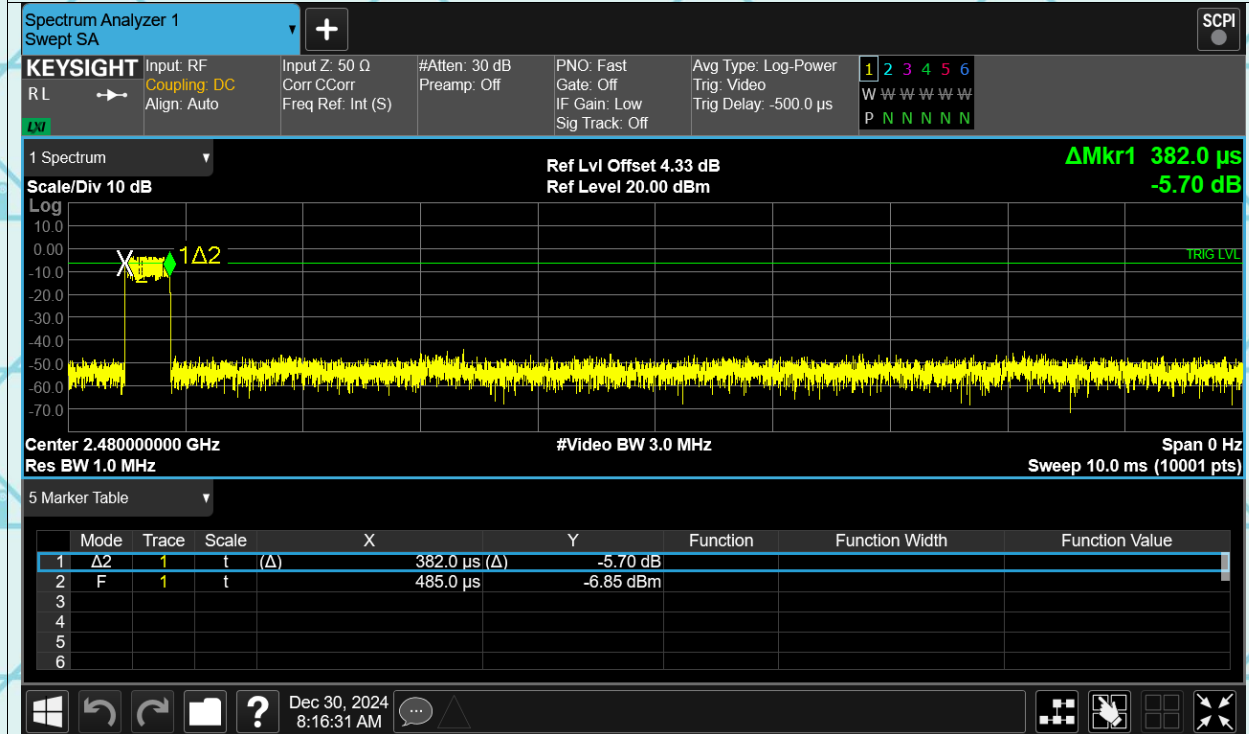


### Dwell 1-DH1 2441MHz Accumulated



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### Dwell 1-DH1 2480MHz One Burst

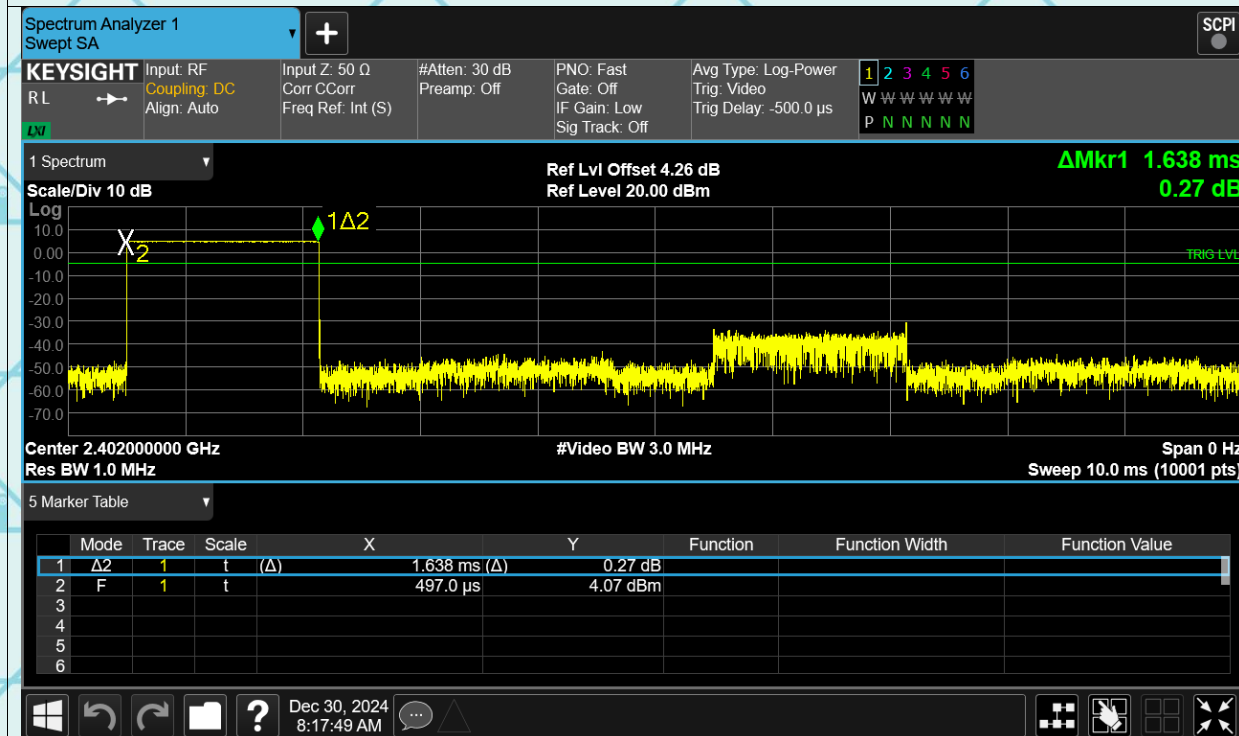


### Dwell 1-DH1 2480MHz Accumulated

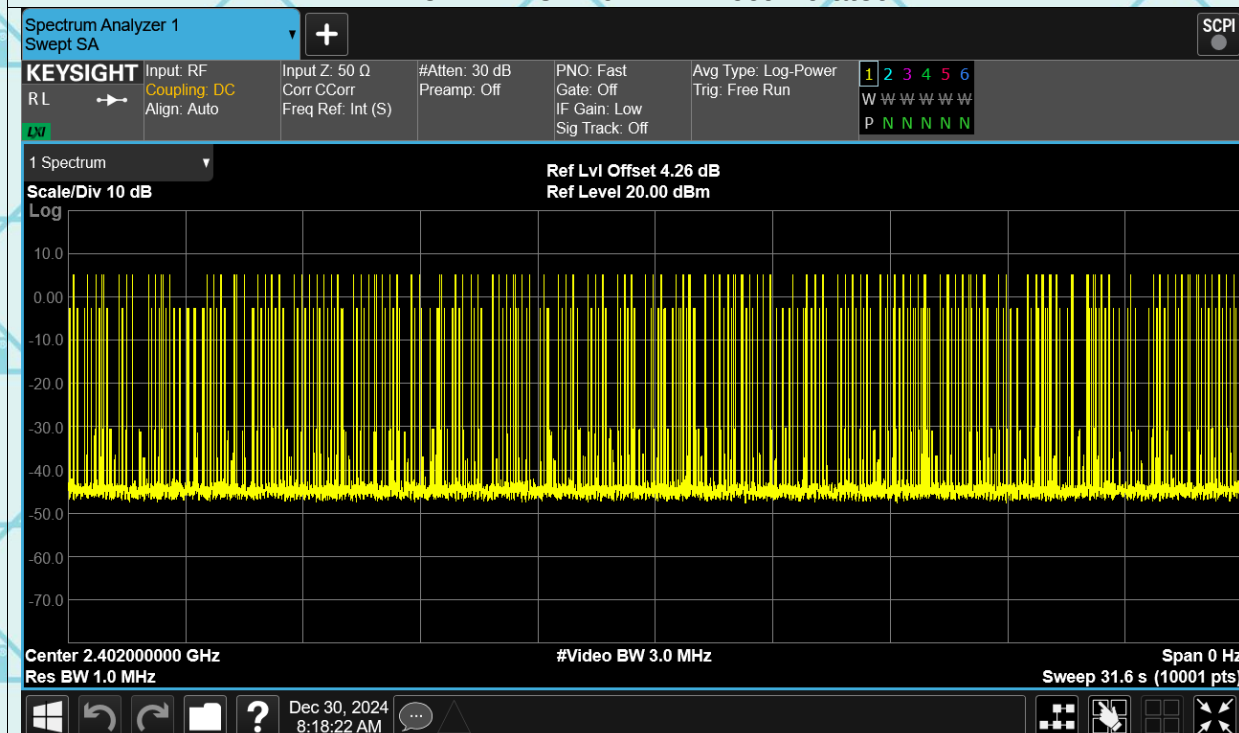


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### Dwell 1-DH3 2402MHz One Burst

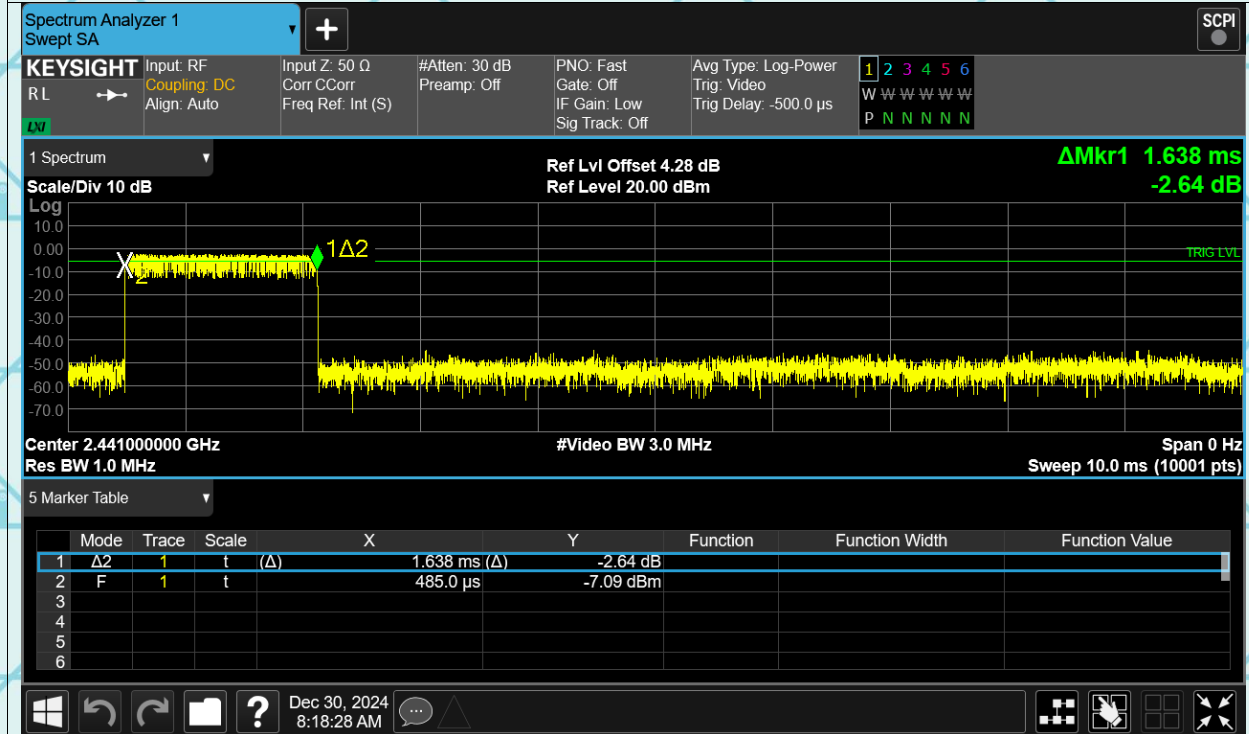


### Dwell 1-DH3 2402MHz Accumulated

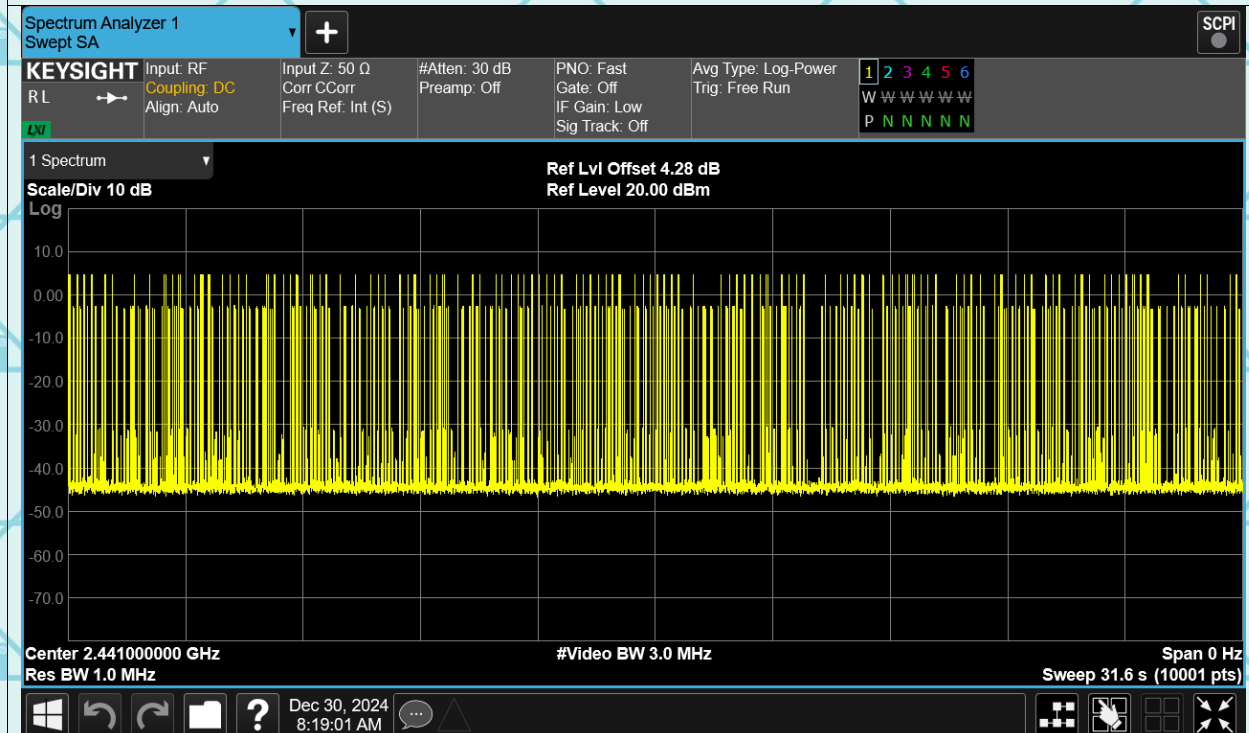


Report No.: WSCT-ANAB-R&E241200078A-BT

### Dwell 1-DH3 2441MHz One Burst

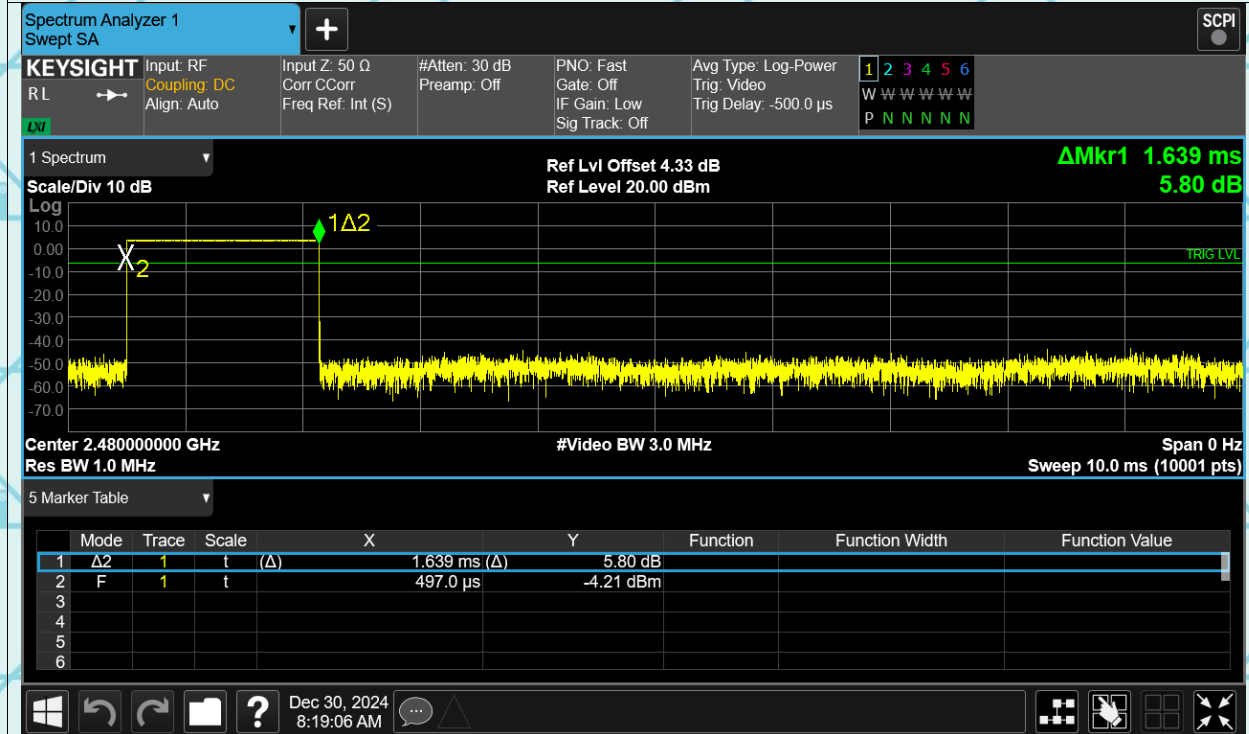


### Dwell 1-DH3 2441MHz Accumulated

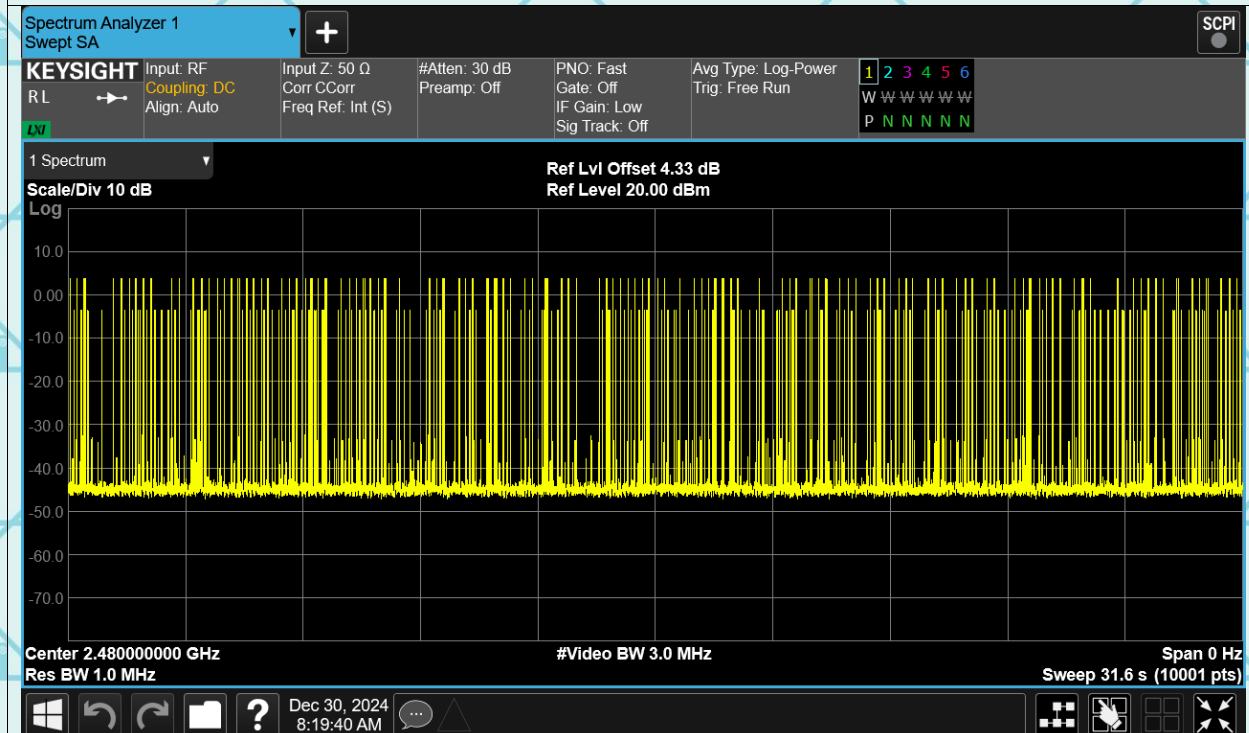


Report No.: WSCT-ANAB-R&E241200078A-BT

### Dwell 1-DH3 2480MHz One Burst

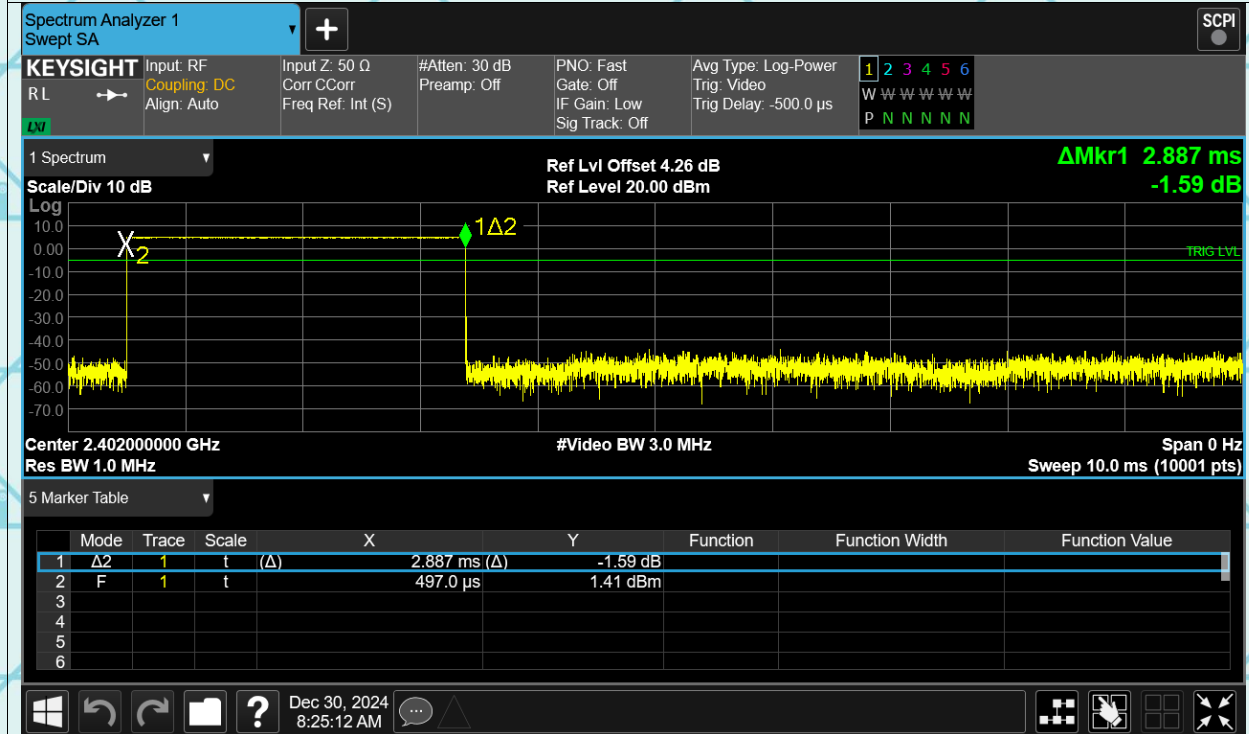


### Dwell 1-DH3 2480MHz Accumulated

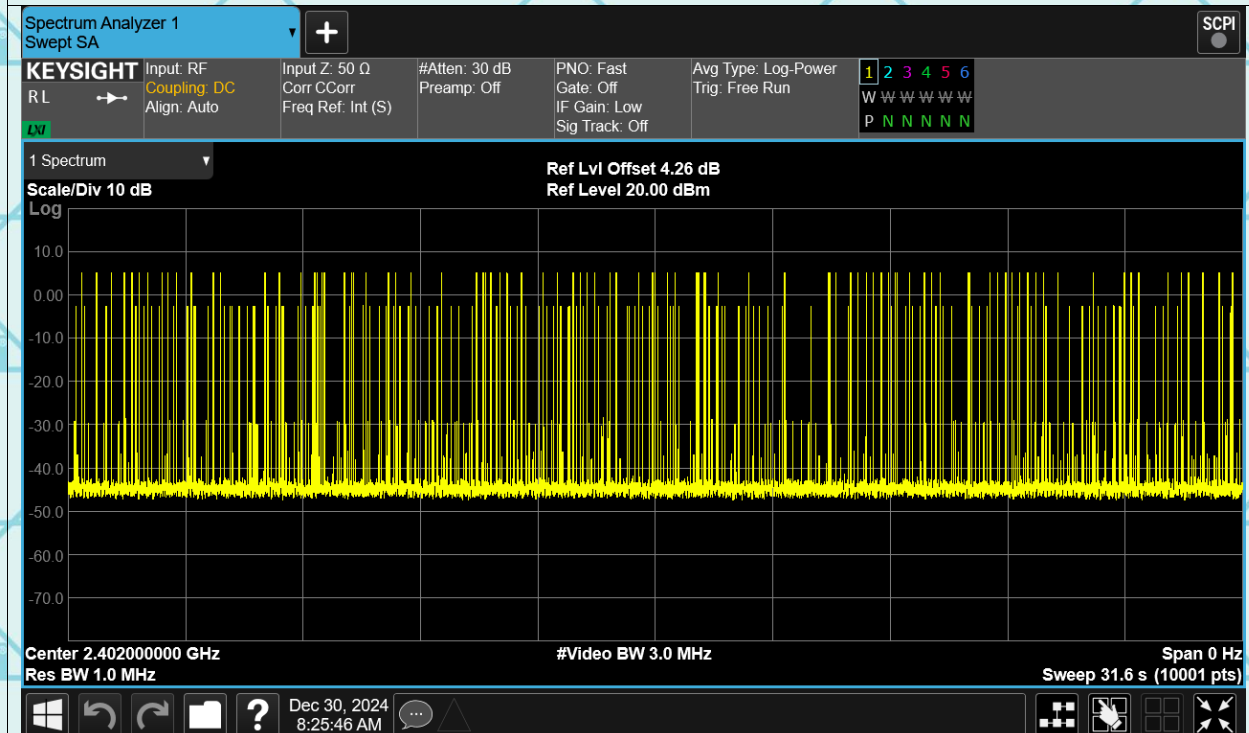


Report No.: WSCT-ANAB-R&E241200078A-BT

### Dwell 1-DH5 2402MHz One Burst

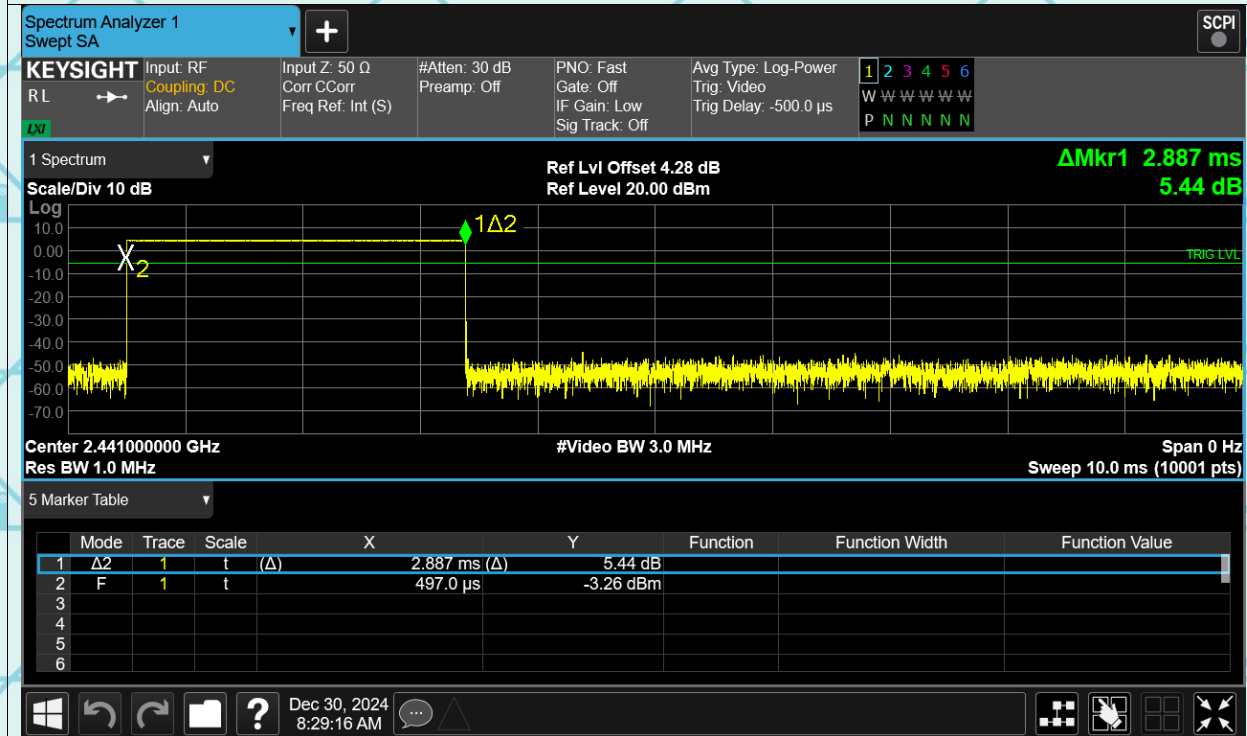


### Dwell 1-DH5 2402MHz Accumulated

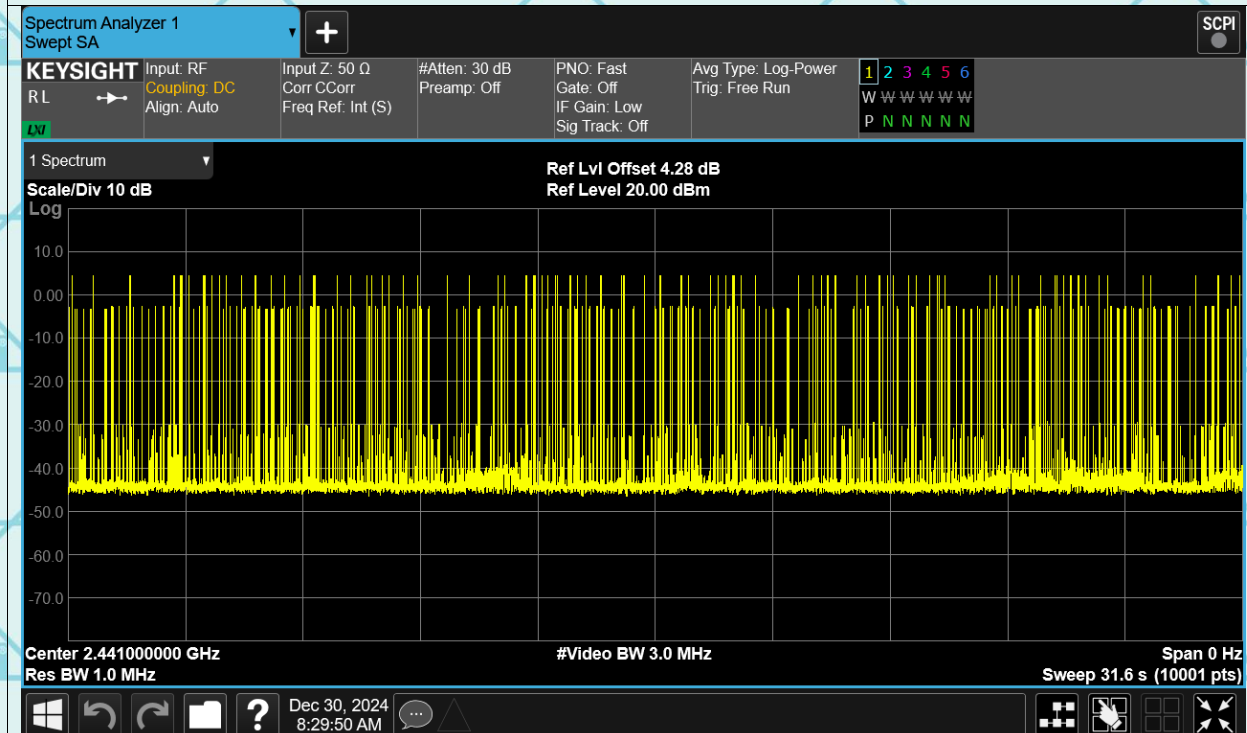


Report No.: WSCT-ANAB-R&E241200078A-BT

### Dwell 1-DH5 2441MHz One Burst

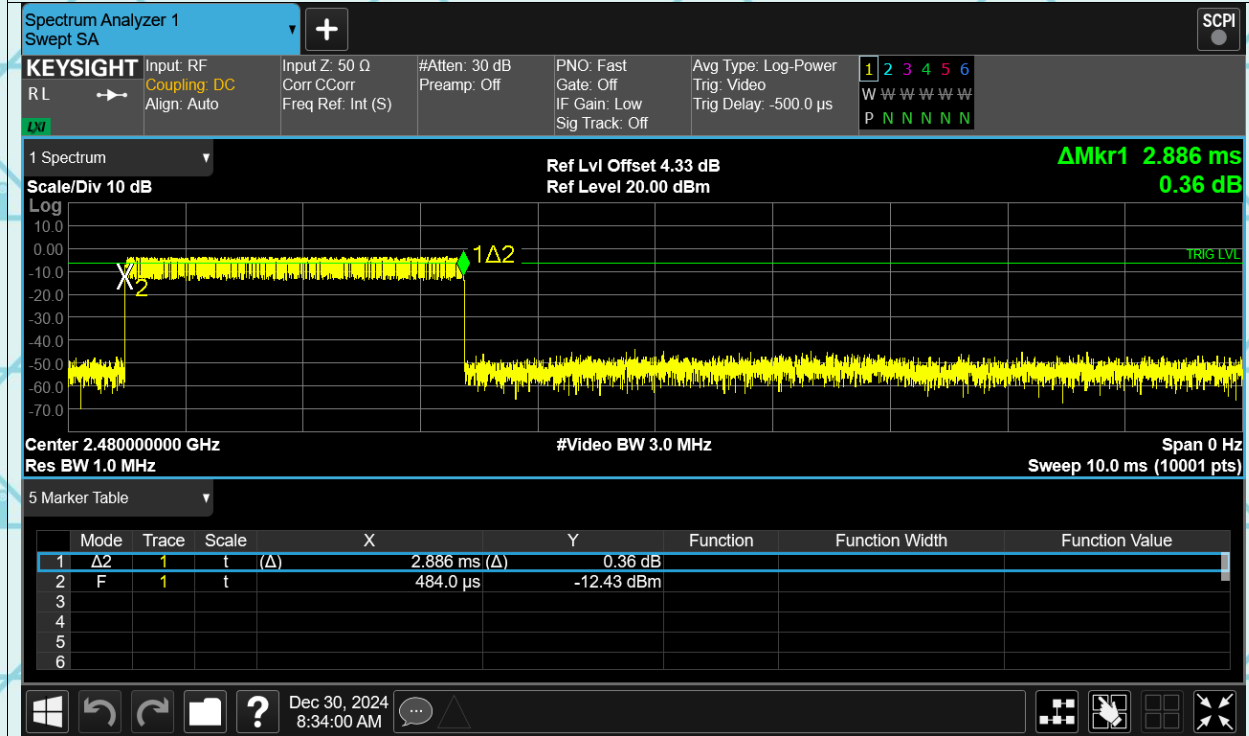


### Dwell 1-DH5 2441MHz Accumulated

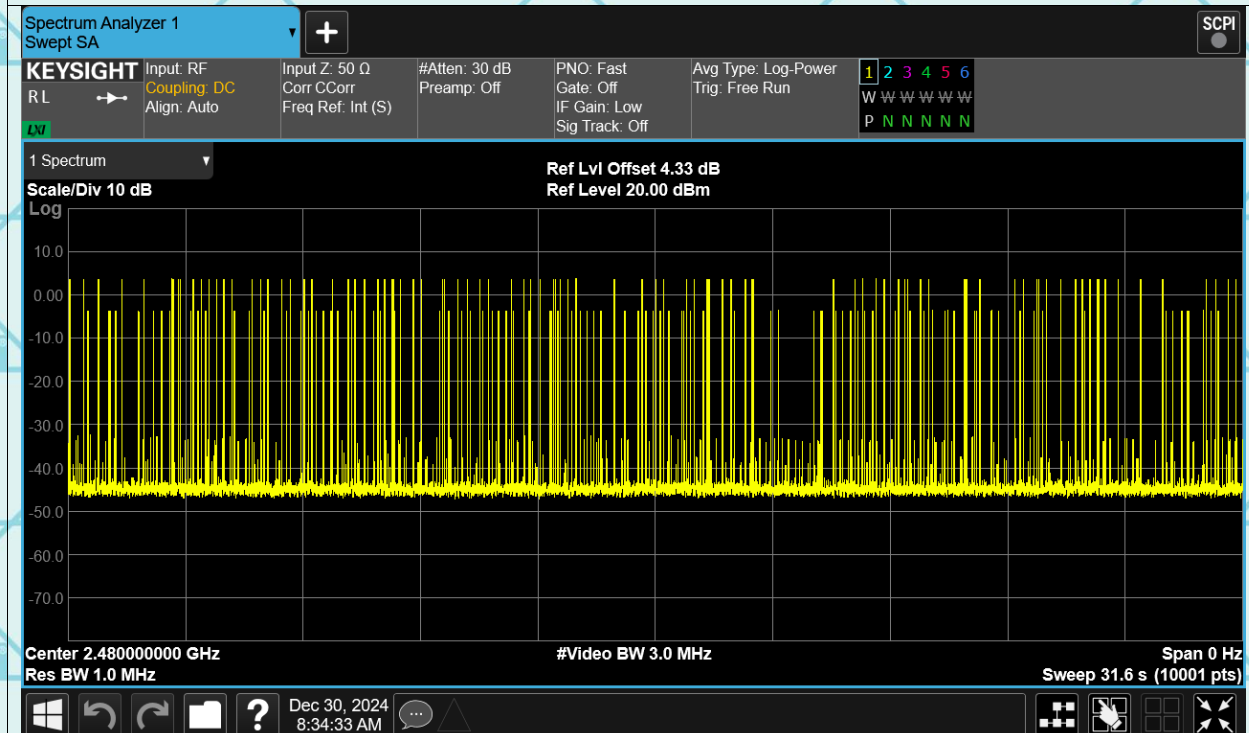


Report No.: WSCT-ANAB-R&E241200078A-BT

### Dwell 1-DH5 2480MHz One Burst



### Dwell 1-DH5 2480MHz Accumulated



## 6.8. Pseudorandom Frequency Hopping Sequence

**Test Requirement:** FCC Part15 C Section 15.247 (a)(1) requirement:

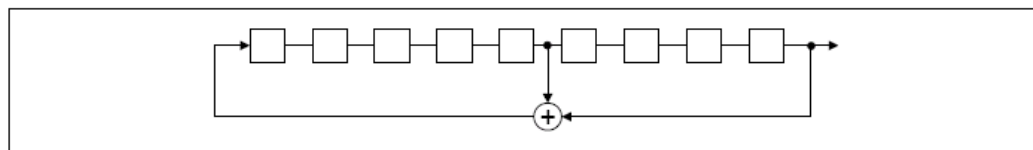
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

### EUT Pseudorandom Frequency Hopping Sequence

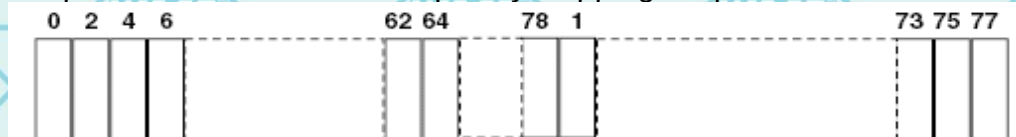
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence:  $2^9 - 1 = 511$  bits
- Longest sequence of zeros: 8 (non-inverted signal)



*Linear Feedback Shift Register for Generation of the PRBS sequence*

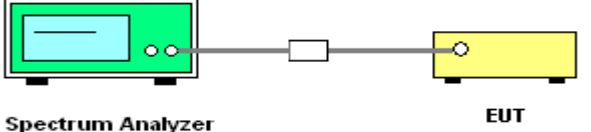
An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

## 6.9. Conducted Band Edge Measurement

### 6.9.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Test Method:</b>      | ANSI C63.10:2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Limit:</b>            | In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Test Setup:</b>       |  <p>The diagram shows a green Spectrum Analyzer connected via a cable to a yellow EUT (Equipment Under Test).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines.</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Set RBW = 100 kHz (<math>\geq 1\%</math> span=10MHz), VBW = 300 kHz (<math>\geq</math>RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.</li> <li>4. Enable hopping function of the EUT and then repeat step 2 and 3.</li> <li>5. Measure and record the results in the test report.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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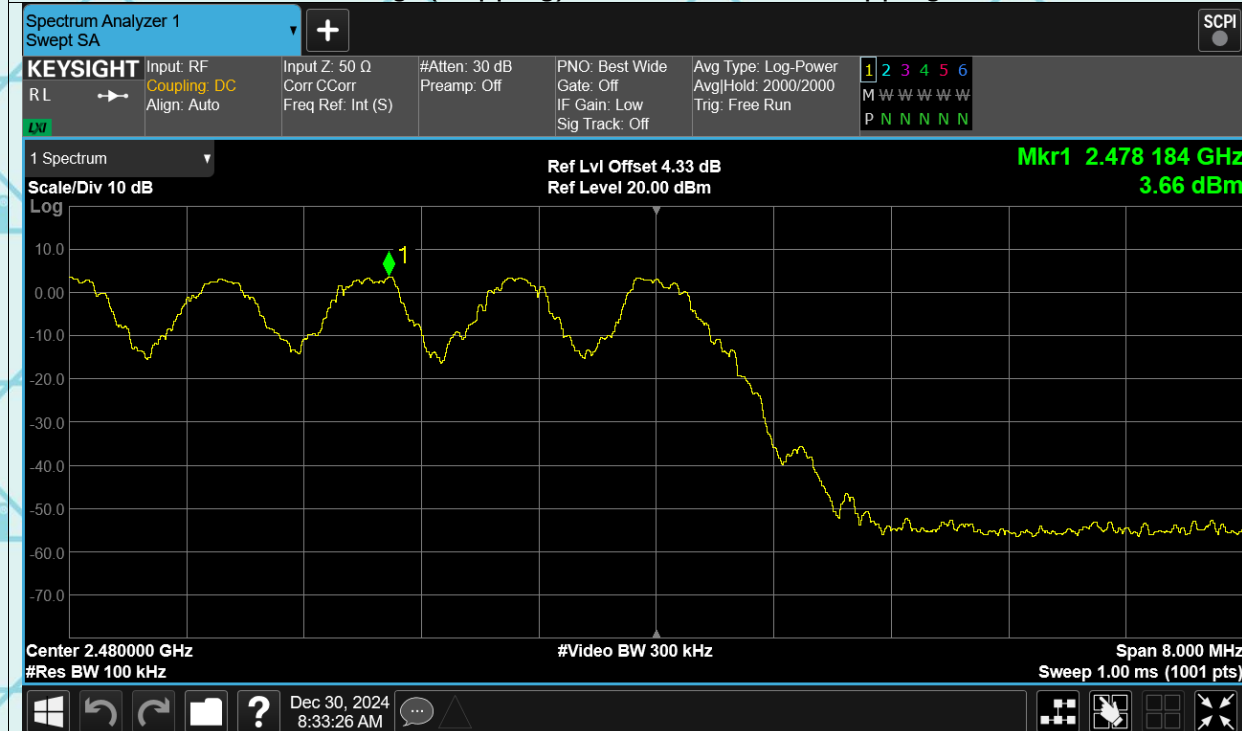
## 6.9.2. Test Data

### GFSK Modulation ( the worst case )

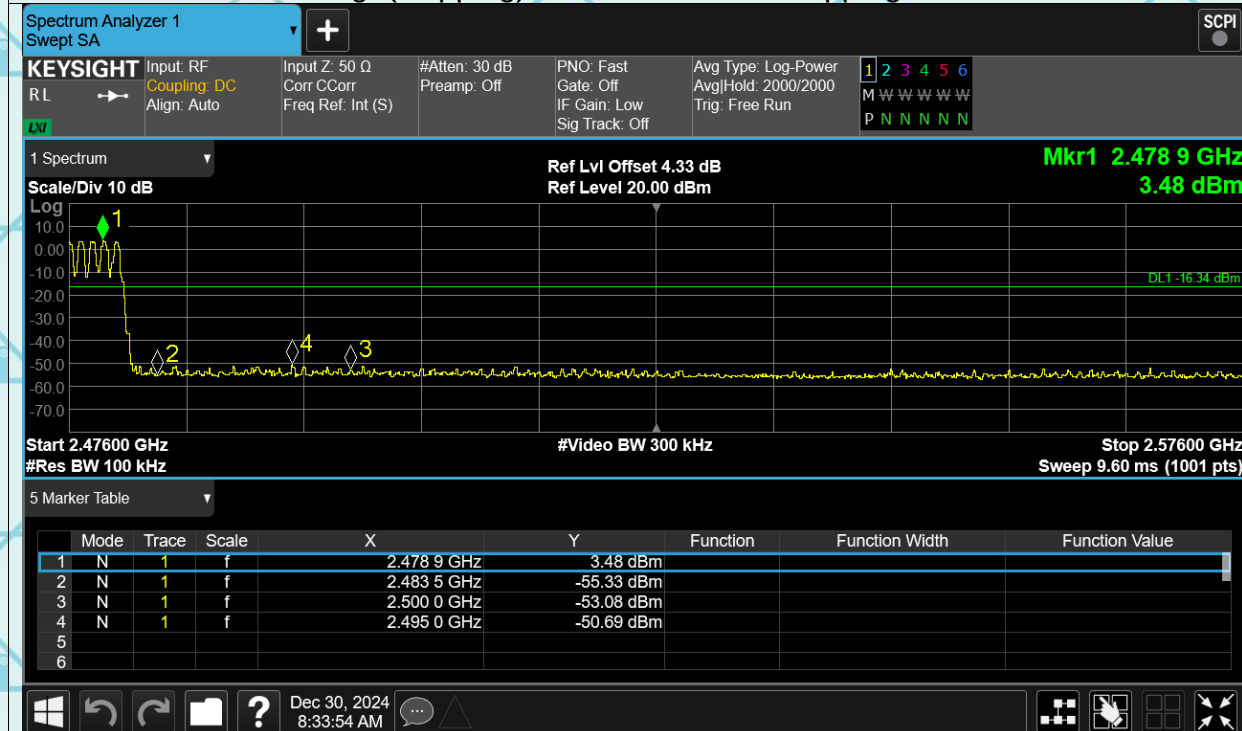


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### Band Edge(Hopping) 1-DH5 2480MHz Hopping Ref



### Band Edge(Hopping) 1-DH5 2480MHz Hopping Emission



Report No.: WSCT-ANAB-R&E241200078A-BT

## 6.10. Conducted Spurious Emission Measurement

### 6.10.1. Test Specification

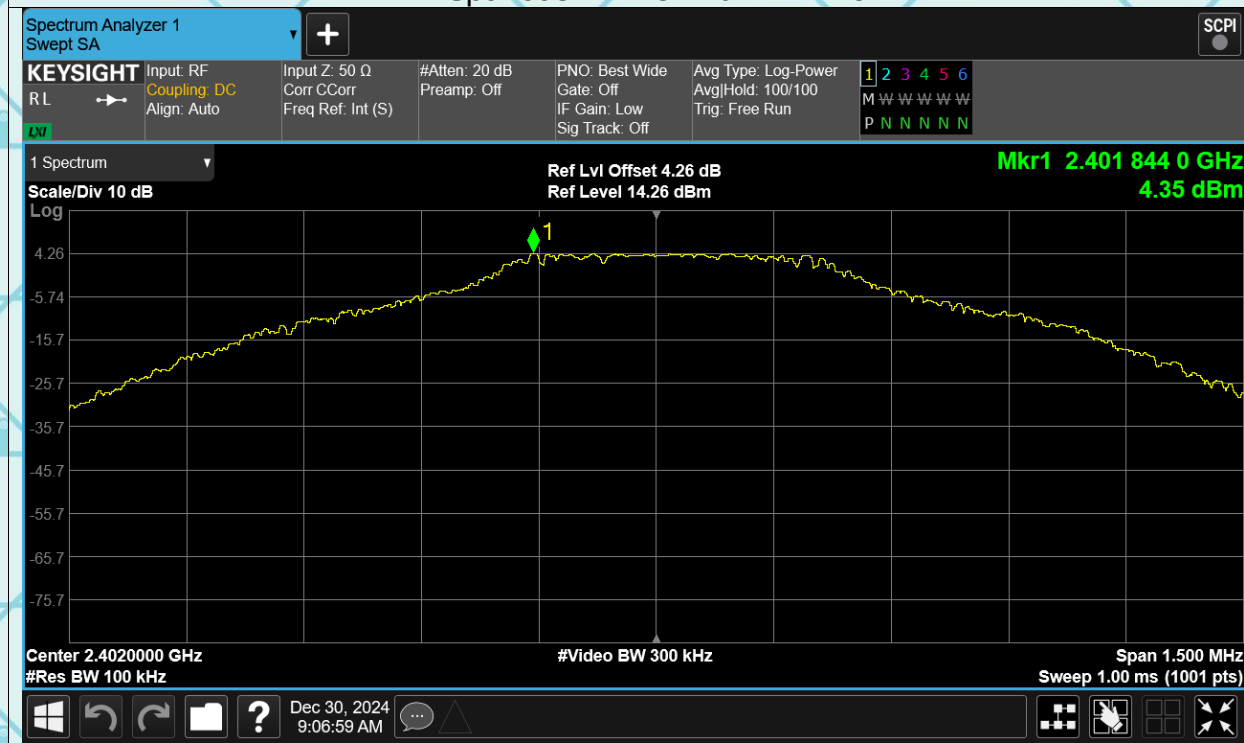
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Test Method:</b>      | ANSI C63.10:2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Limit:</b>            | In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Test Setup:</b>       |  <p>The diagram shows a Spectrum Analyzer connected to an EUT (Equipment Under Test) through an attenuator. The Spectrum Analyzer is represented by a green box with a screen and controls. The EUT is represented by a yellow box. The attenuator is represented by a small white box between them.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines</li> <li>2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.</li> <li>5. Measure and record the results in the test report.</li> <li>6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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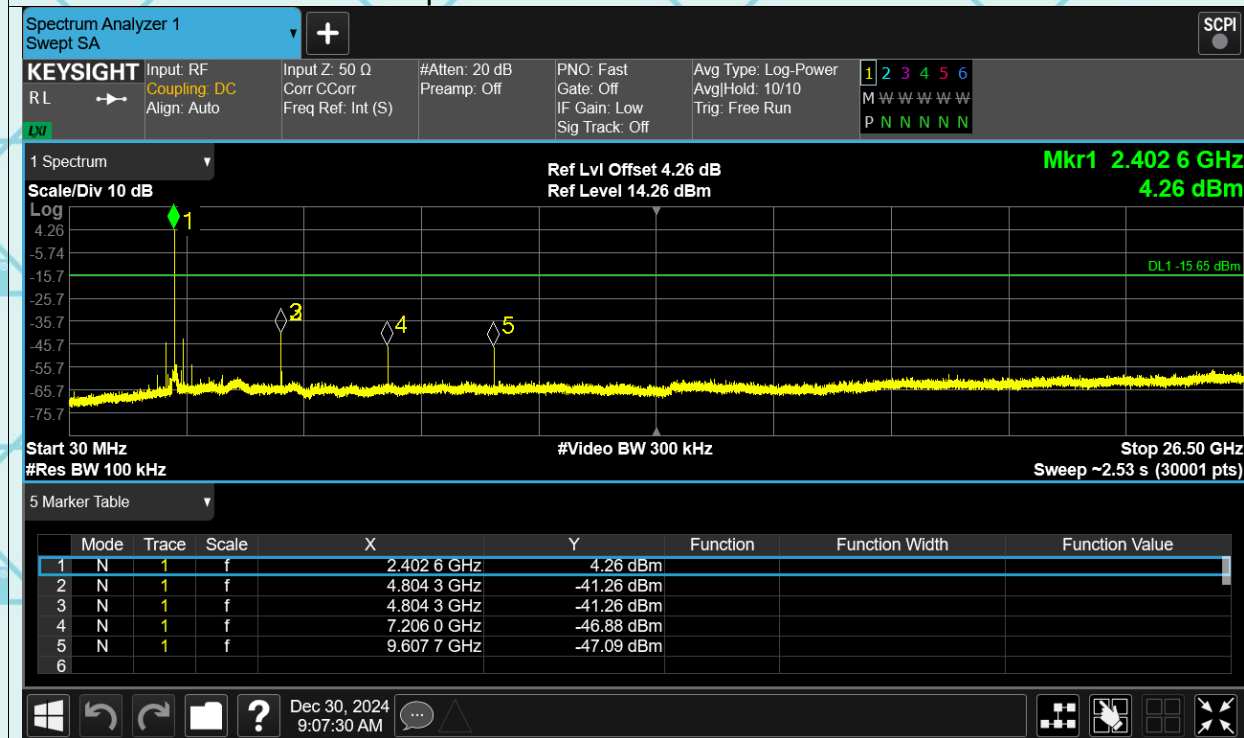
## Test Data

## Test Graphs

Tx. Spurious 1-DH5 2402MHz Ref

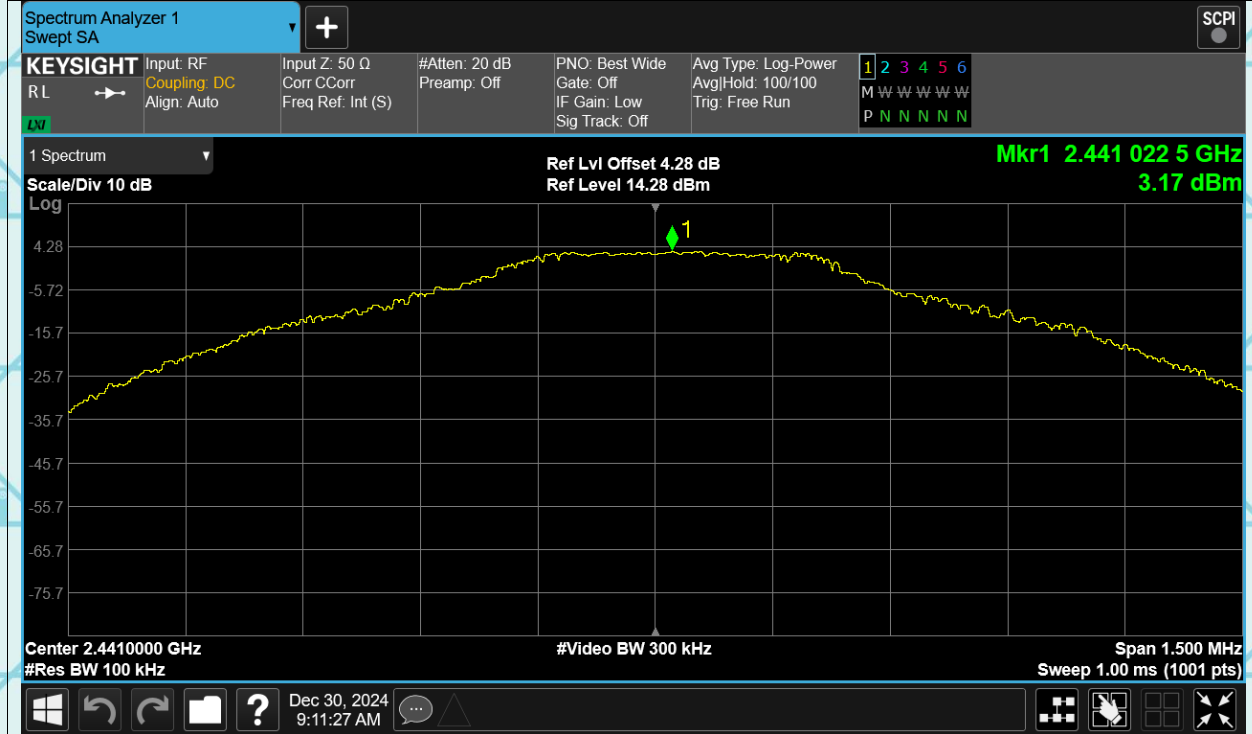


Tx. Spurious 1-DH5 2402MHz Emission

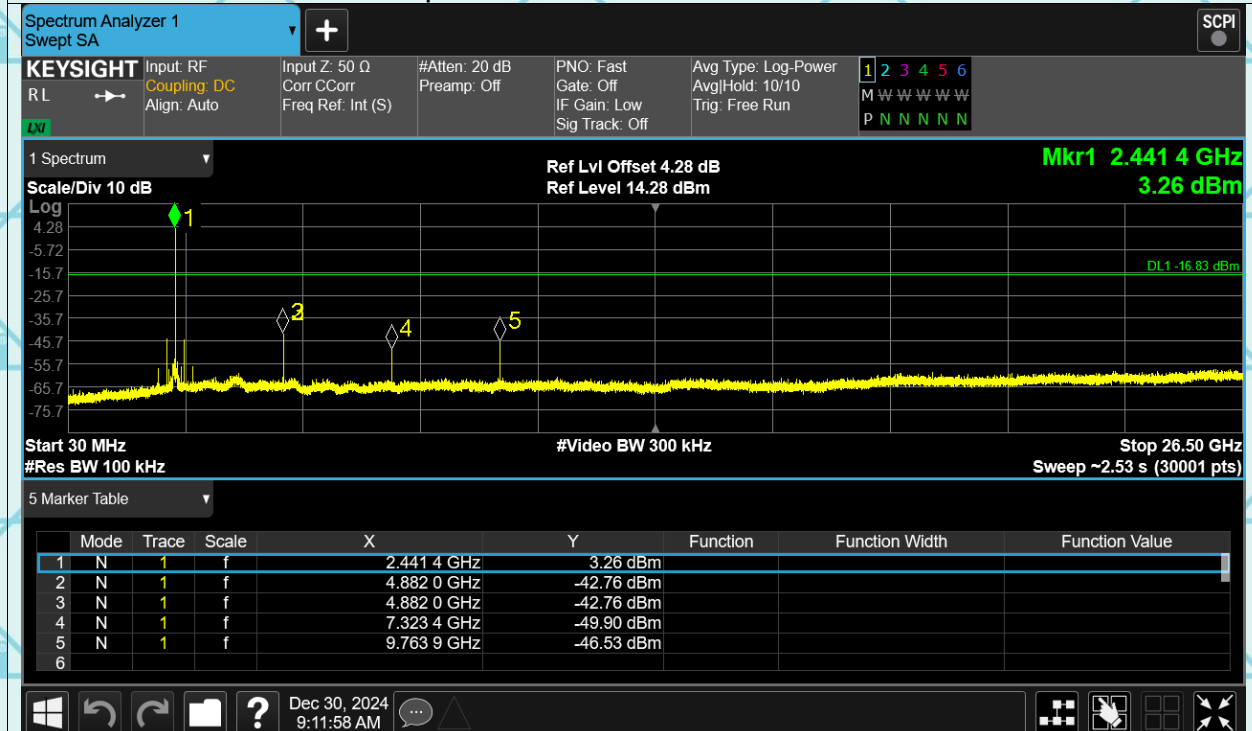


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### Tx. Spurious 1-DH5 2441MHz Ref

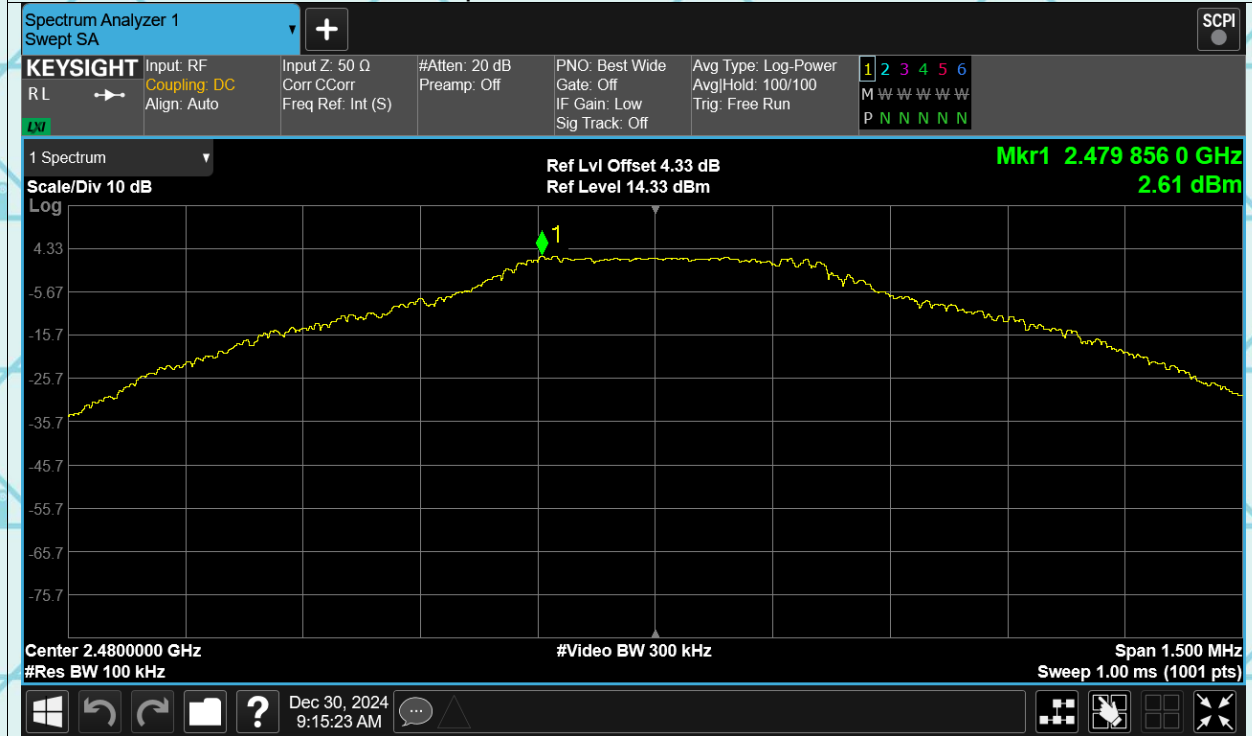


### Tx. Spurious 1-DH5 2441MHz Emission

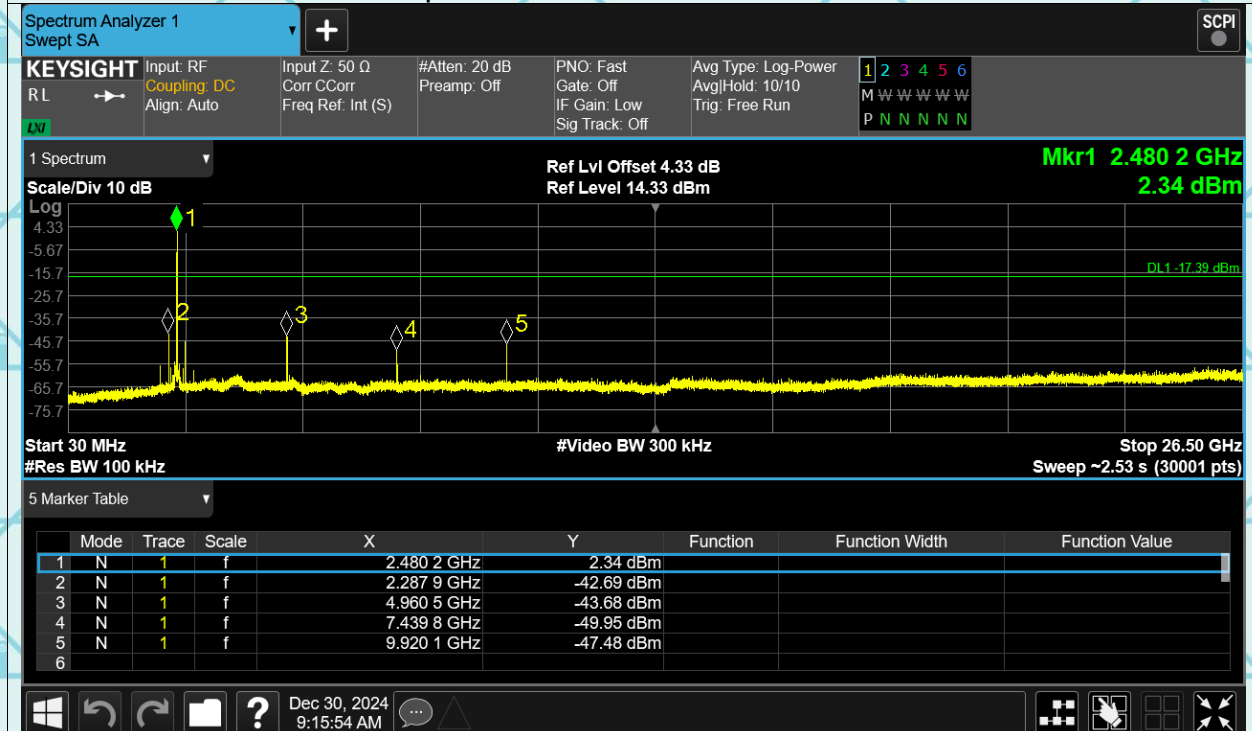


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### Tx. Spurious 1-DH5 2480MHz Ref

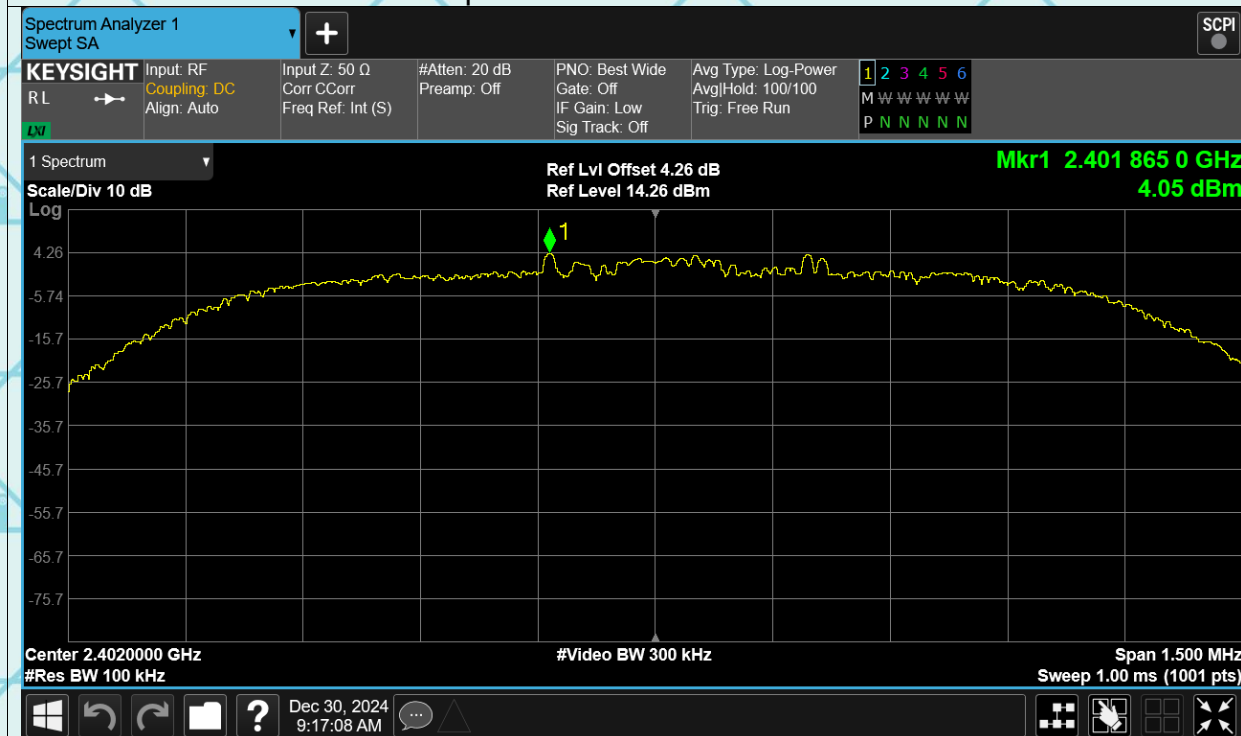


### Tx. Spurious 1-DH5 2480MHz Emission

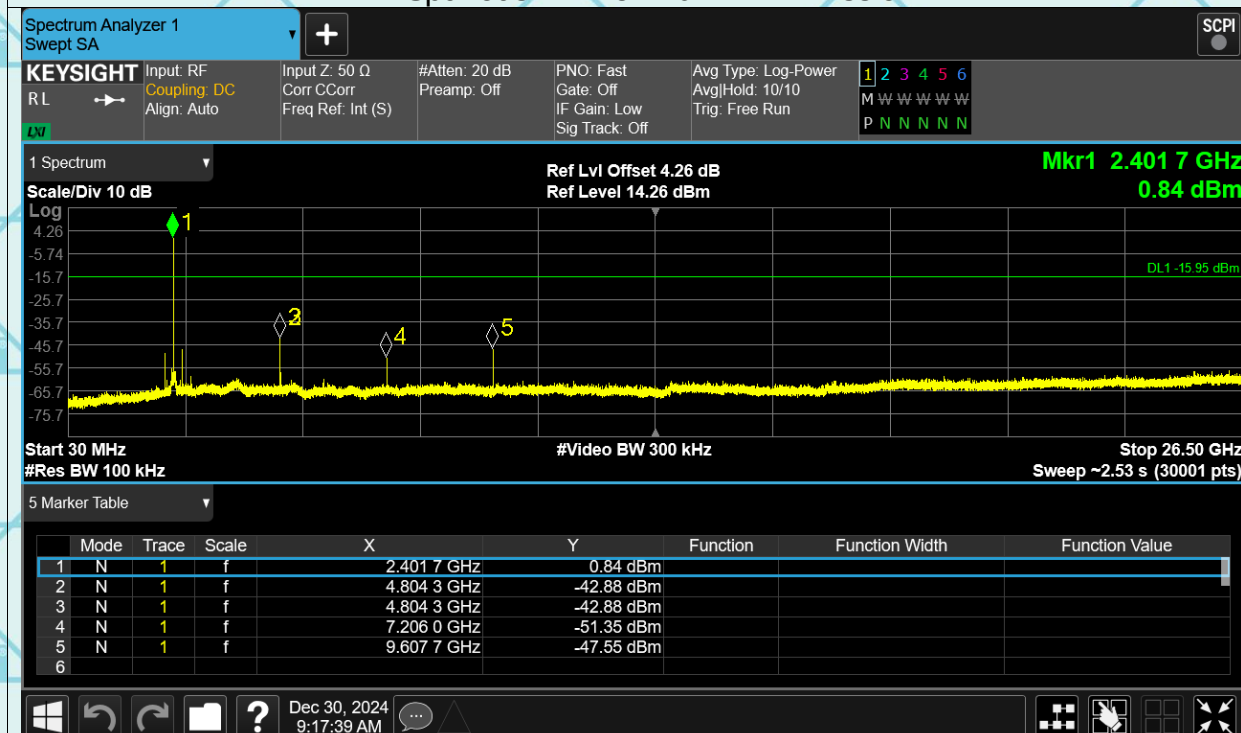


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### Tx. Spurious 2-DH5 2402MHz Ref

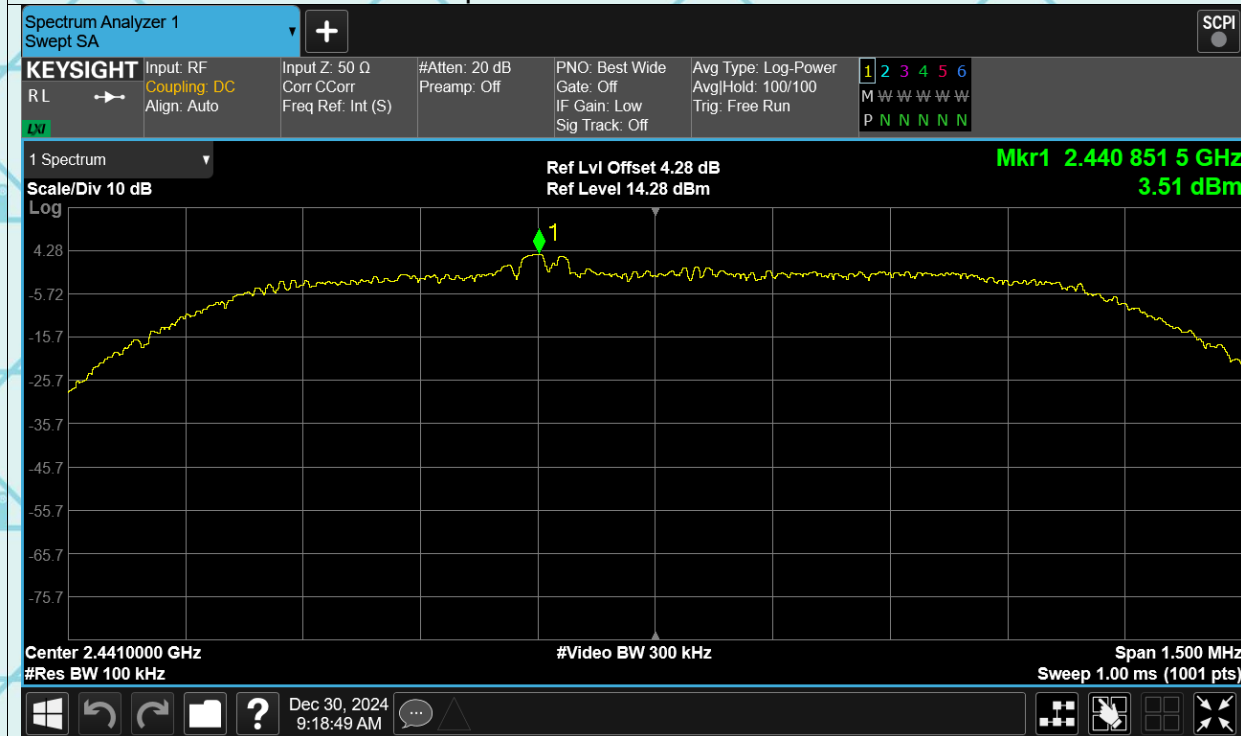


### Tx. Spurious 2-DH5 2402MHz Emission

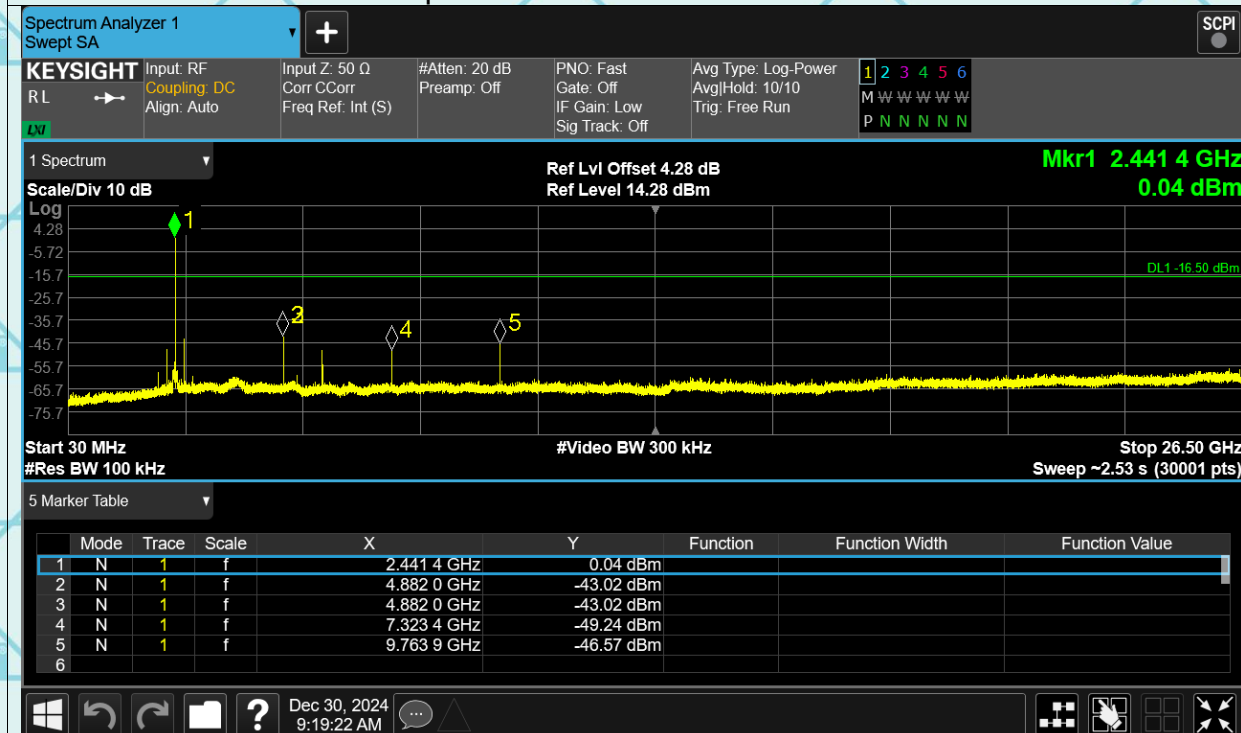


Report No.: WSCT-ANAB-R&E241200078A-BT

### Tx. Spurious 2-DH5 2441MHz Ref

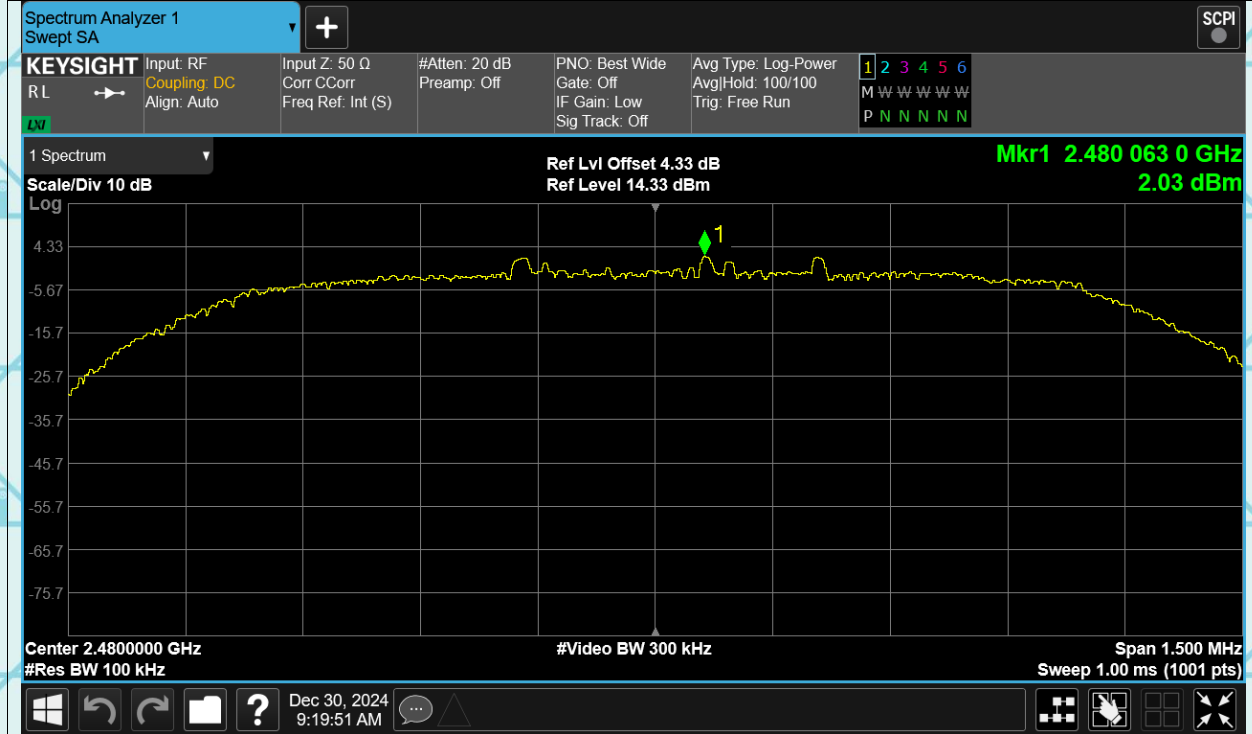


### Tx. Spurious 2-DH5 2441MHz Emission

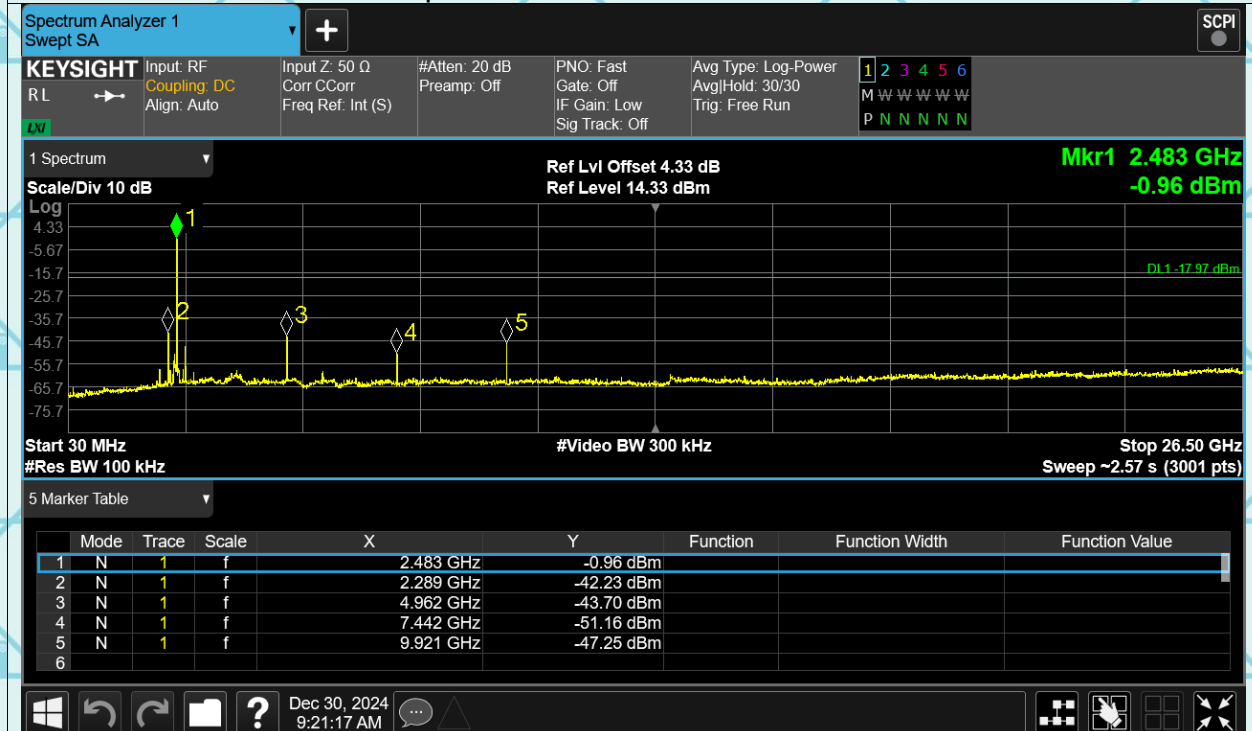


Report No.: WSCT-ANAB-R&E241200078A-BT

### Tx. Spurious 2-DH5 2480MHz Ref



### Tx. Spurious 2-DH5 2480MHz Emission

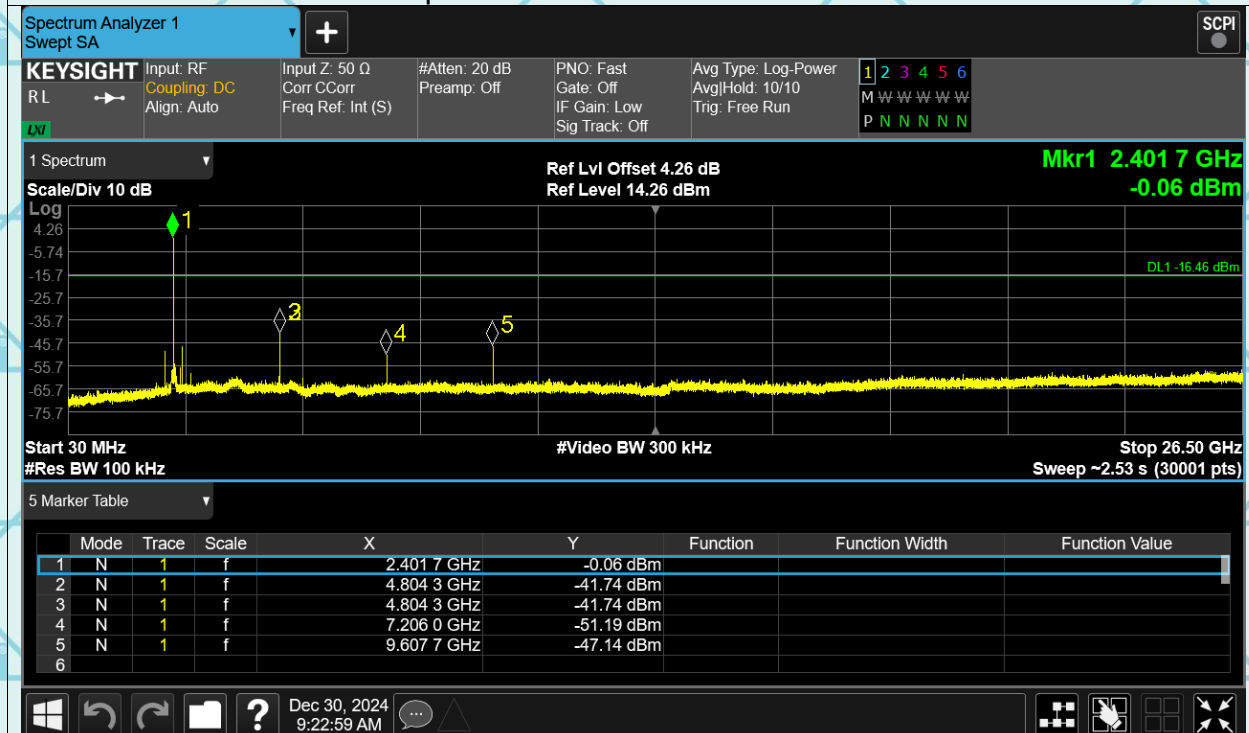


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### Tx. Spurious 3-DH5 2402MHz Ref

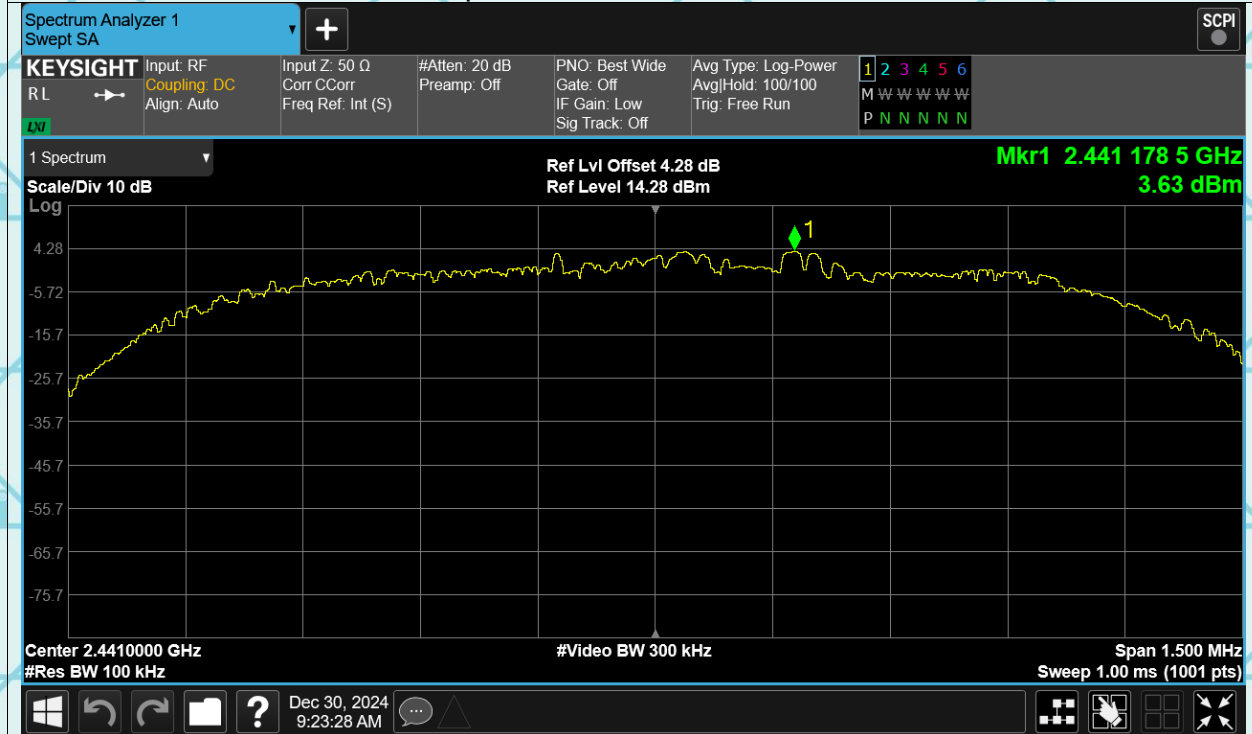


### Tx. Spurious 3-DH5 2402MHz Emission

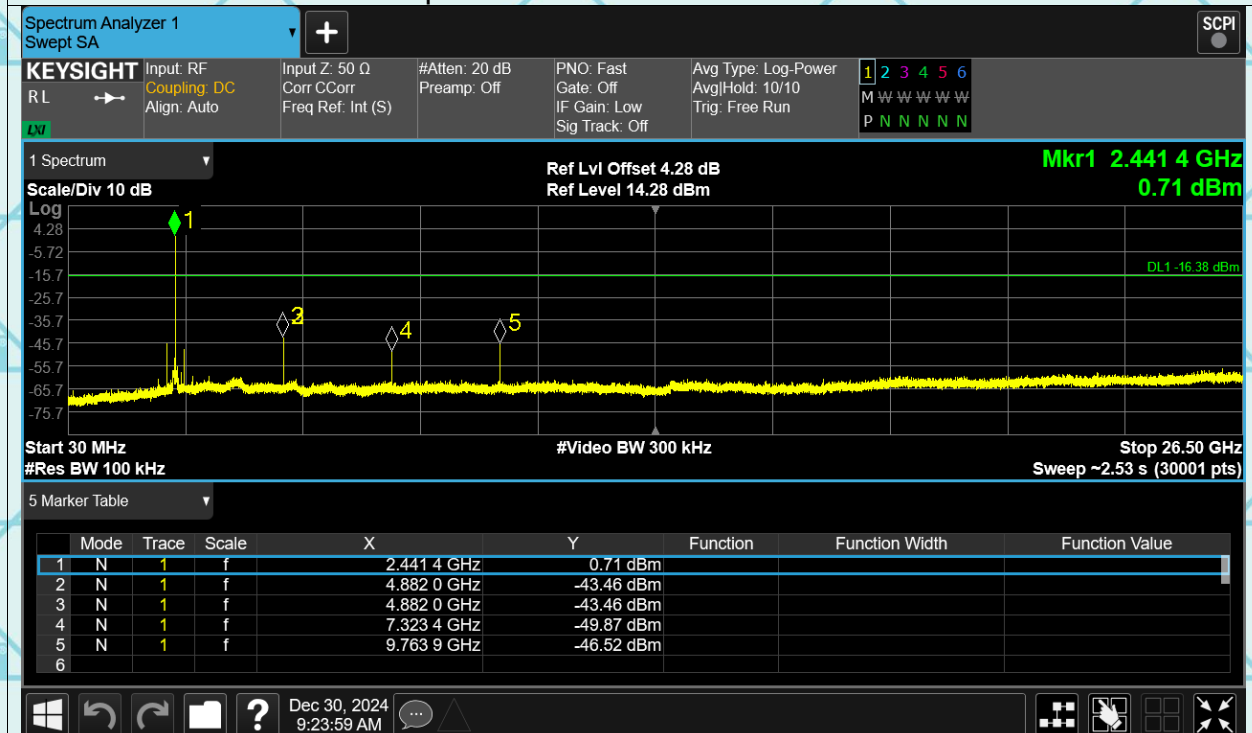


Report No.: WSCT-ANAB-R&E241200078A-BT

### Tx. Spurious 3-DH5 2441MHz Ref

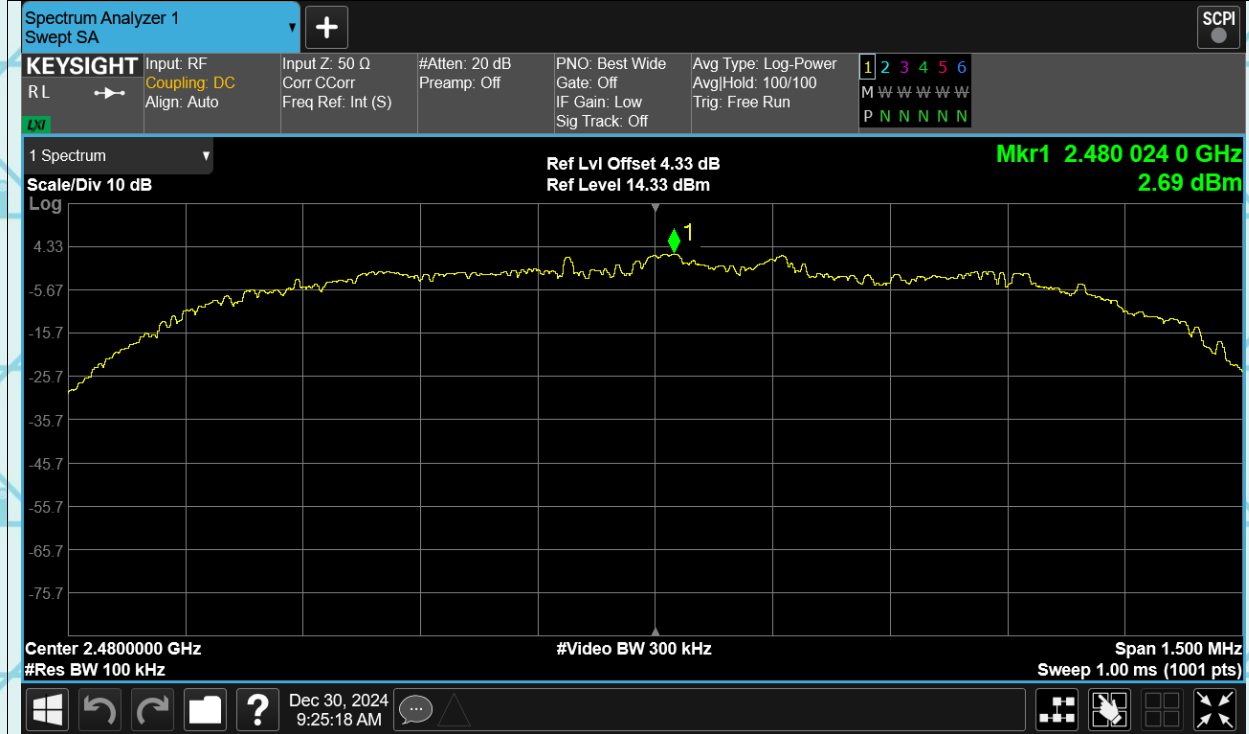


### Tx. Spurious 3-DH5 2441MHz Emission

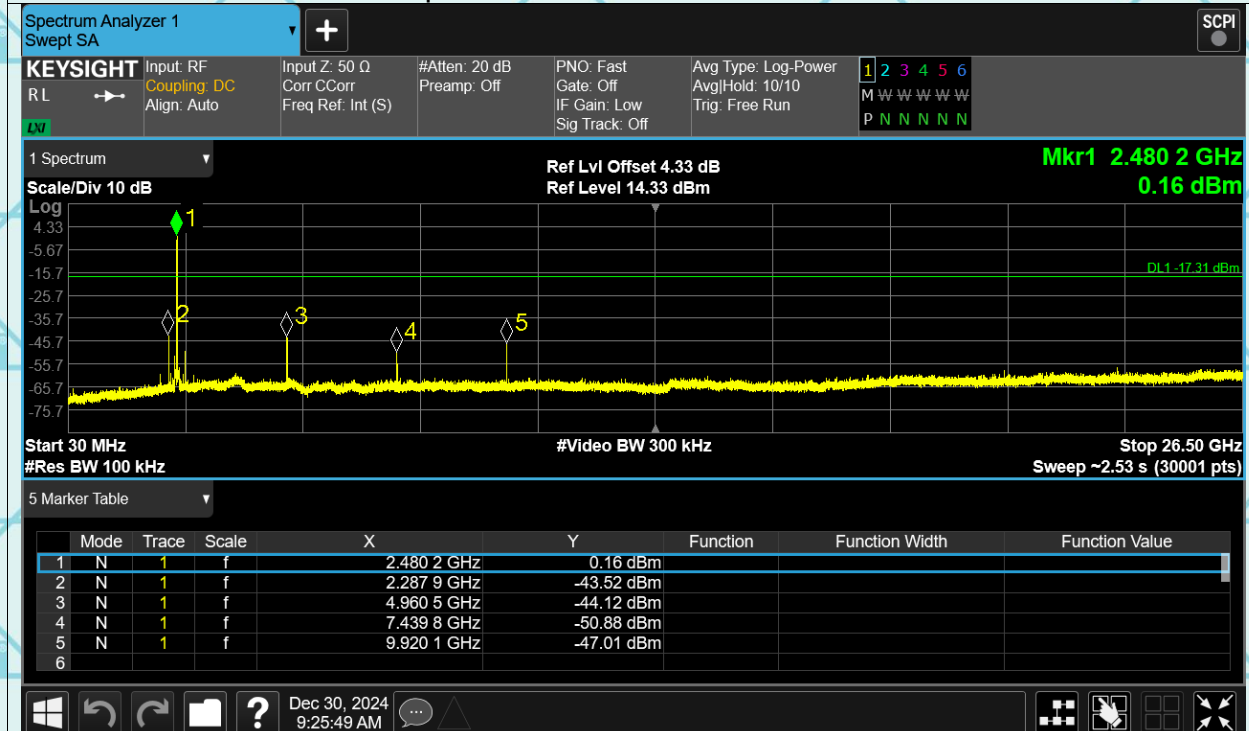


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### Tx. Spurious 3-DH5 2480MHz Ref



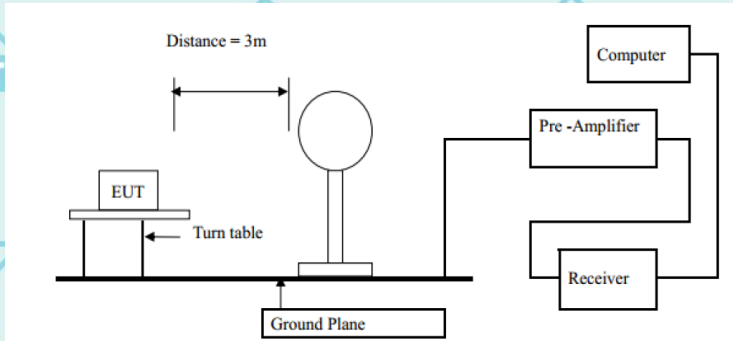
### Tx. Spurious 3-DH5 2480MHz Emission

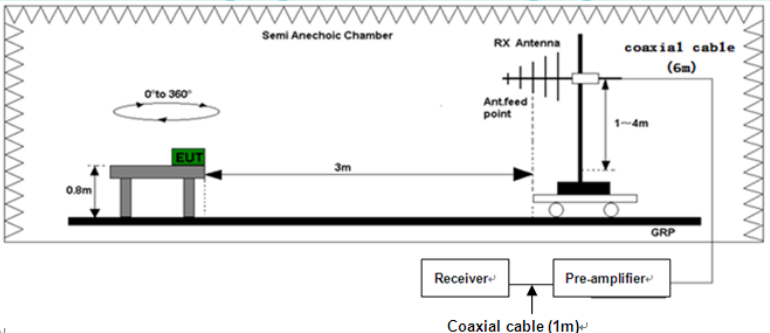
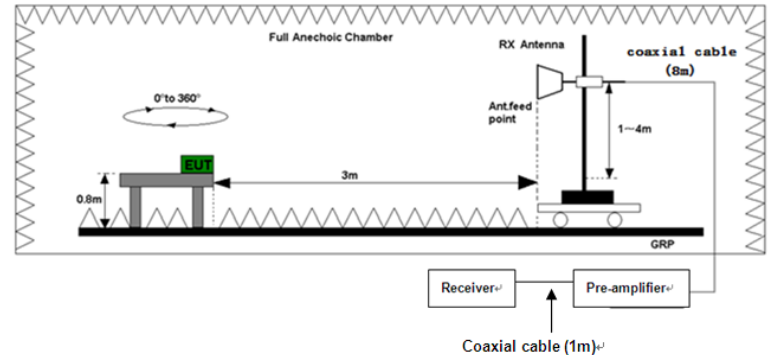


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## 6.11. Radiated Spurious Emission Measurement

### 6.11.1. Test Specification

|                       |                                                                                      |                                   |                               |                               |                  |
|-----------------------|--------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|-------------------------------|------------------|
| Test Requirement:     | FCC Part15 C Section 15.209                                                          |                                   |                               |                               |                  |
| Test Method:          | ANSI C63.10:2014                                                                     |                                   |                               |                               |                  |
| Frequency Range:      | 9 kHz to 25 GHz                                                                      |                                   |                               |                               |                  |
| Measurement Distance: | 3 m                                                                                  |                                   |                               |                               |                  |
| Antenna Polarization: | Horizontal & Vertical                                                                |                                   |                               |                               |                  |
| Receiver Setup:       | Frequency                                                                            | Detector                          | RBW                           | VBW                           | Remark           |
|                       | 9kHz- 150kHz                                                                         | Quasi-peak                        | 200Hz                         | 1kHz                          | Quasi-peak Value |
|                       | 150kHz- 30MHz                                                                        | Quasi-peak                        | 9kHz                          | 30kHz                         | Quasi-peak Value |
|                       | 30MHz-1GHz                                                                           | Quasi-peak                        | 100KHz                        | 300KHz                        | Quasi-peak Value |
|                       | Above 1GHz                                                                           | Peak                              | 1MHz                          | 3MHz                          | Peak Value       |
| Peak                  |                                                                                      | 1MHz                              | 10Hz                          | Average Value                 |                  |
| Limit:                | Frequency                                                                            | Field Strength (microvolts/meter) |                               | Measurement Distance (meters) |                  |
|                       | 0.009-0.490                                                                          | 2400/F(KHz)                       |                               | 300                           |                  |
|                       | 0.490-1.705                                                                          | 24000/F(KHz)                      |                               | 30                            |                  |
|                       | 1.705-30                                                                             | 30                                |                               | 30                            |                  |
|                       | 30-88                                                                                | 100                               |                               | 3                             |                  |
|                       | 88-216                                                                               | 150                               |                               | 3                             |                  |
|                       | 216-960                                                                              | 200                               |                               | 3                             |                  |
|                       | Above 960                                                                            | 500                               |                               | 3                             |                  |
|                       | Frequency                                                                            | Field Strength (microvolts/meter) | Measurement Distance (meters) | Detector                      |                  |
|                       | Above 1GHz                                                                           | 500                               | 3                             | Average                       |                  |
|                       |                                                                                      | 5000                              | 3                             | Peak                          |                  |
| Test setup:           | For radiated emissions below 30MHz                                                   |                                   |                               |                               |                  |
|                       |  |                                   |                               |                               |                  |
|                       | 30MHz to 1GHz                                                                        |                                   |                               |                               |                  |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               |  <p>Above 1GHz</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p><b>Test Mode:</b></p>      | <p>Transmitting mode with modulation</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>Test Procedure:</b></p> | <ol style="list-style-type: none"> <li>1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10:2014 Measurement Guidelines.</li> <li>2. For the radiated emission test below 1GHz:<br/>The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.<br/>For the radiated emission test above 1GHz:<br/>Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final</li> </ol> |

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|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <p>measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <p>3. Set to the maximum power setting and enable the EUT transmit continuously.</p> <p>4. Use the following spectrum analyzer settings:</p> <p>(1) Span shall wide enough to fully capture the emission being measured;</p> <p>(2) Set RBW=100 kHz for <math>f &lt; 1</math> GHz, RBW=1MHz for <math>f &gt; 1</math>GHz ; VBW<math>\geq</math>RBW;<br/>Sweep = auto; Detector function = peak; Trace = max hold for peak</p> <p>(3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds<br/>On time = <math>N1 \cdot L1 + N2 \cdot L2 + \dots + Nn-1 \cdot L_{Nn-1} + Nn \cdot L_n</math><br/>Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.<br/>Average Emission Level = Peak Emission Level + <math>20 \cdot \log(\text{Duty cycle})</math><br/>Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> |
| Test results: | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Report No.: WSCT-ANAB-R&E241200078A-BT

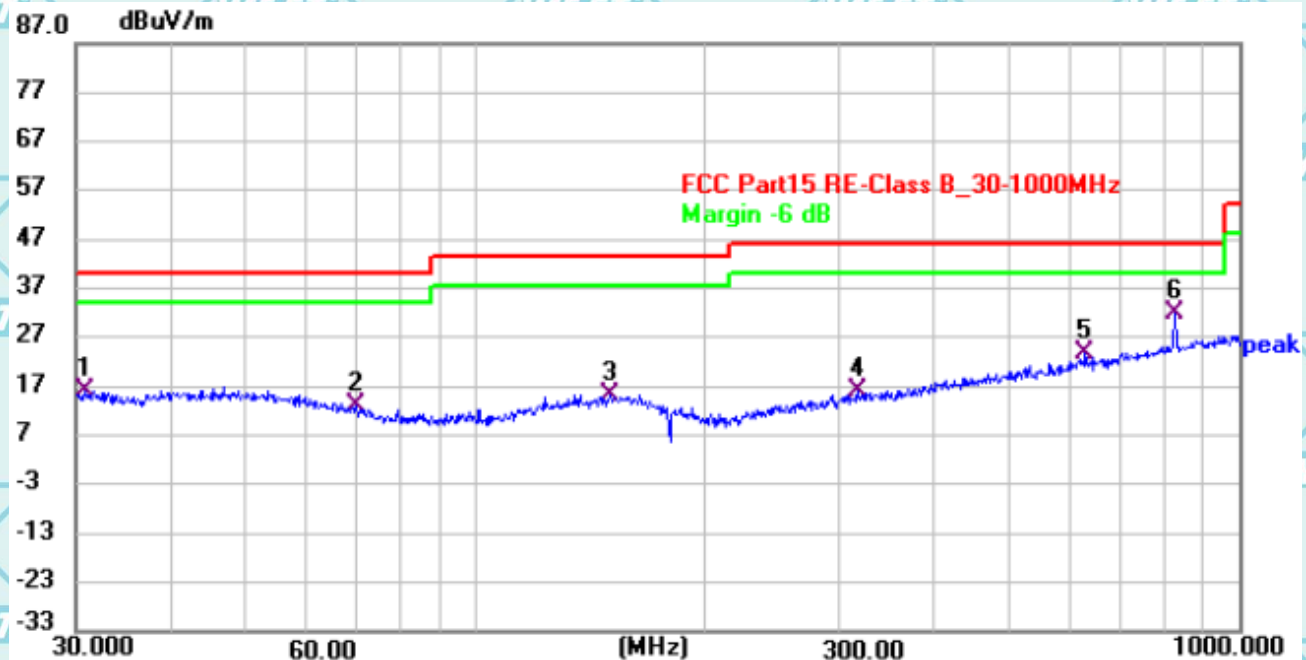
### 6.11.2. Test Data

Please refer to following diagram for individual

Below 1GHz

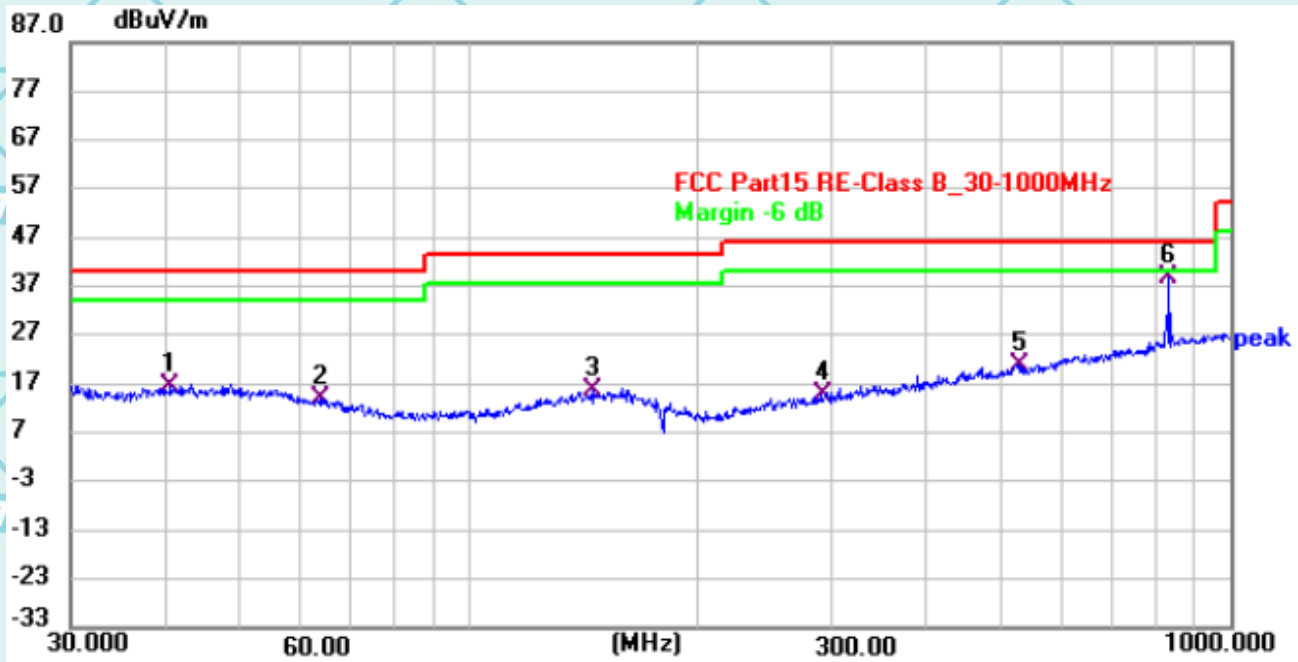
The worst mode is GFSK

Horizontal:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 30.9619         | 35.66          | -19.38        | 16.28          | 40.00          | -23.72      | QP       |
| 2   | 69.9675         | 35.30          | -22.34        | 12.96          | 40.00          | -27.04      | QP       |
| 3   | 150.1424        | 34.79          | -19.52        | 15.27          | 43.50          | -28.23      | QP       |
| 4   | 316.7278        | 35.61          | -19.69        | 15.92          | 46.00          | -30.08      | QP       |
| 5   | 631.4116        | 36.76          | -13.07        | 23.69          | 46.00          | -22.31      | QP       |
| 6 * | 827.4934        | 42.75          | -10.61        | 32.14          | 46.00          | -13.86      | QP       |

Report No.: WSCT-ANAB-R&E241200078A-BT  
Vertical:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 40.6125         | 35.61          | -18.96        | 16.65          | 40.00          | -23.35      | QP       |
| 2   | 63.8427         | 35.20          | -21.07        | 14.13          | 40.00          | -25.87      | QP       |
| 3   | 145.5418        | 35.21          | -19.75        | 15.46          | 43.50          | -28.04      | QP       |
| 4   | 291.6744        | 35.19          | -20.54        | 14.65          | 46.00          | -31.35      | QP       |
| 5   | 531.0316        | 35.82          | -14.93        | 20.89          | 46.00          | -25.11      | QP       |
| 6 * | 831.1284        | 49.23          | -10.55        | 38.68          | 46.00          | -7.32       | QP       |

Note1:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) - Limits (dBuV)

Report No.: WSCT-ANAB-R&amp;E241200078A-BT

**Above 1GHz**

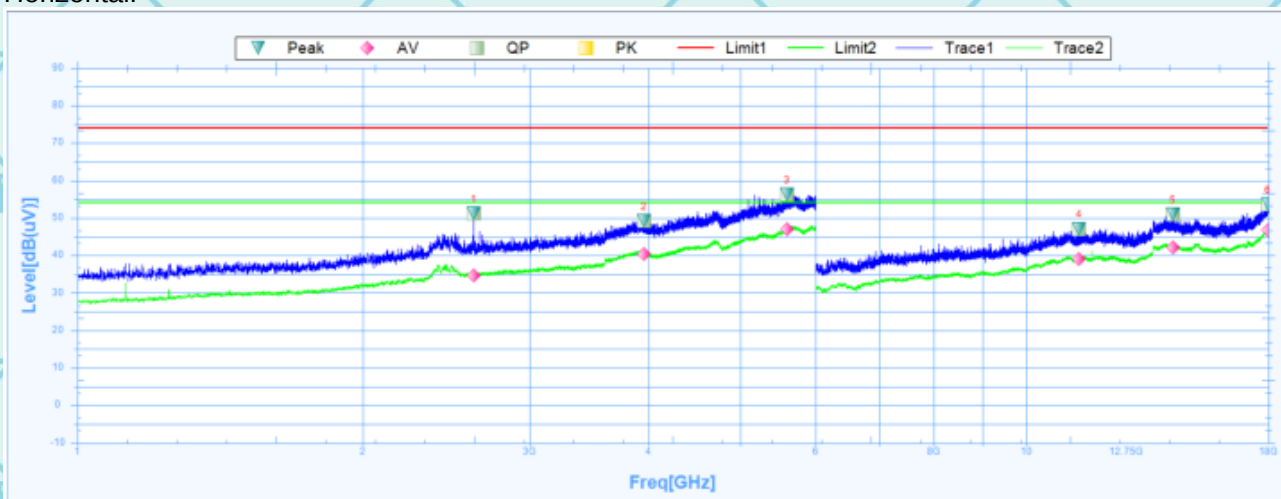
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

**The worst mode is GFSK**

Low channel: 2402MHz

Horizontal:

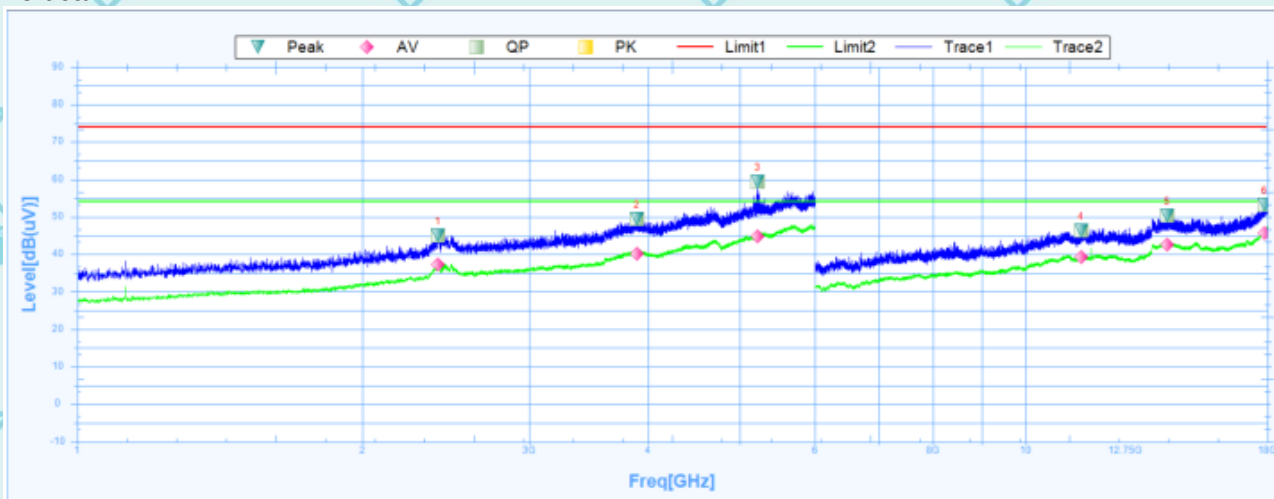


**Susputed Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity   | Trace | Verdict |
|-----|-------------|------------------|-------------|----------------|------------|-------------|---------|------------|-------|---------|
| 1   | 2618.1250   | 51.29            | 27.74       | 23.55          | 74         | -22.71      | 21.3    | Horizontal | PK    | Pass    |
| 1   | 2618.1250   | 34.63            | 27.74       | 6.89           | 54         | -19.37      | 21.3    | Horizontal | AV    | Pass    |
| 2   | 3958.7500   | 49.28            | 29.6        | 19.68          | 74         | -24.72      | 317.7   | Horizontal | PK    | Pass    |
| 2   | 3958.7500   | 40.3             | 29.6        | 10.7           | 54         | -13.7       | 317.7   | Horizontal | AV    | Pass    |
| 3   | 5600.0000   | 56.24            | 32.16       | 24.08          | 74         | -17.76      | 358.5   | Horizontal | PK    | Pass    |
| 3   | 5600.0000   | 46.93            | 32.16       | 14.77          | 54         | -7.07       | 358.5   | Horizontal | AV    | Pass    |
| 4   | 11374.5000  | 47.11            | 15.78       | 31.33          | 74         | -26.89      | 261.2   | Horizontal | PK    | Pass    |
| 4   | 11374.5000  | 39.05            | 15.78       | 23.27          | 54         | -14.95      | 261.2   | Horizontal | AV    | Pass    |
| 5   | 14274.0000  | 51               | 18.84       | 32.16          | 74         | -23         | 202.6   | Horizontal | PK    | Pass    |
| 5   | 14274.0000  | 42.09            | 18.84       | 23.25          | 54         | -11.91      | 202.6   | Horizontal | AV    | Pass    |
| 6   | 17977.5000  | 53.65            | 23.77       | 29.88          | 74         | -20.35      | 360.1   | Horizontal | PK    | Pass    |
| 6   | 17977.5000  | 46.87            | 23.77       | 23.1           | 54         | -7.13       | 360.1   | Horizontal | AV    | Pass    |

Report No.: WSCT-ANAB-R&amp;E241200078A-BT

Vertical:



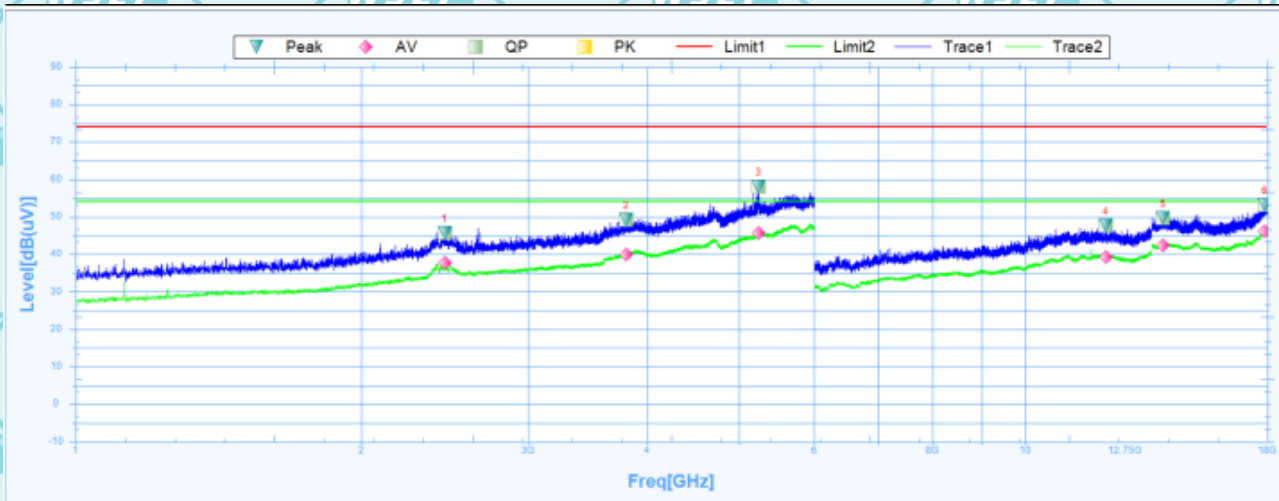
Susputed Data List

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|-----|-------------|------------------|-------------|----------------|------------|-------------|---------|----------|-------|---------|
| 1   | 2401.2500   | 45.09            | 27.26       | 17.83          | 74         | -28.91      | 202.9   | Vertical | PK    | Pass    |
| 1   | 2401.2500   | 37.25            | 27.26       | 9.99           | 54         | -16.75      | 202.9   | Vertical | AV    | Pass    |
| 2   | 3894.3750   | 49.38            | 29.45       | 19.93          | 74         | -24.62      | 358.7   | Vertical | PK    | Pass    |
| 2   | 3894.3750   | 40.25            | 29.45       | 10.8           | 54         | -13.75      | 358.7   | Vertical | AV    | Pass    |
| 3   | 5223.1250   | 59.46            | 31.78       | 27.68          | 74         | -14.54      | 188.6   | Vertical | PK    | Pass    |
| 3   | 5223.1250   | 44.82            | 31.78       | 13.04          | 54         | -9.18       | 188.6   | Vertical | AV    | Pass    |
| 4   | 11446.5000  | 46.31            | 15.98       | 30.33          | 74         | -27.69      | 7.5     | Vertical | PK    | Pass    |
| 4   | 11446.5000  | 39.24            | 15.98       | 23.26          | 54         | -14.76      | 7.5     | Vertical | AV    | Pass    |
| 5   | 14113.5000  | 50.27            | 19.01       | 31.26          | 74         | -23.73      | 317.1   | Vertical | PK    | Pass    |
| 5   | 14113.5000  | 42.69            | 19.01       | 23.68          | 54         | -11.31      | 317.1   | Vertical | AV    | Pass    |
| 6   | 17871.0000  | 53.21            | 23.08       | 30.13          | 74         | -20.79      | 354.3   | Vertical | PK    | Pass    |
| 6   | 17871.0000  | 45.73            | 23.08       | 22.65          | 54         | -8.27       | 354.3   | Vertical | AV    | Pass    |

Report No.: WSCT-ANAB-R&E241200078A-BT

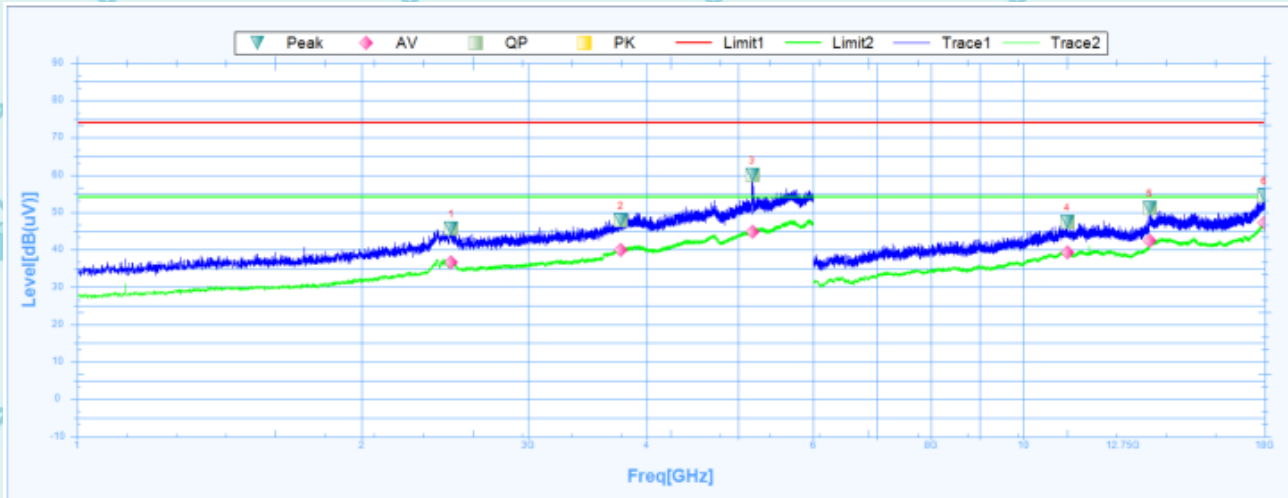
Middle channel: 2440MHz

Horizontal:



| Susputed Data List |             |                  |             |                |            |             |         |            |       |         |
|--------------------|-------------|------------------|-------------|----------------|------------|-------------|---------|------------|-------|---------|
| NO.                | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity   | Trace | Verdict |
| 1                  | 2448.1250   | 45.67            | 27.42       | 18.25          | 74         | -28.33      | 157.4   | Horizontal | PK    | Pass    |
| 1                  | 2448.1250   | 37.66            | 27.42       | 10.24          | 54         | -16.34      | 157.4   | Horizontal | AV    | Pass    |
| 2                  | 3803.7500   | 49.29            | 29.23       | 20.06          | 74         | -24.71      | 179     | Horizontal | PK    | Pass    |
| 2                  | 3803.7500   | 39.94            | 29.23       | 10.71          | 54         | -14.06      | 179     | Horizontal | AV    | Pass    |
| 3                  | 5241.2500   | 57.97            | 31.79       | 26.18          | 74         | -16.03      | 359.5   | Horizontal | PK    | Pass    |
| 3                  | 5241.2500   | 45.62            | 31.79       | 13.83          | 54         | -8.38       | 359.5   | Horizontal | AV    | Pass    |
| 4                  | 12165.0000  | 47.76            | 16.59       | 31.17          | 74         | -26.24      | 213.3   | Horizontal | PK    | Pass    |
| 4                  | 12165.0000  | 39.27            | 16.59       | 22.68          | 54         | -14.73      | 213.3   | Horizontal | AV    | Pass    |
| 5                  | 13984.5000  | 49.73            | 19.08       | 30.65          | 74         | -24.27      | 114.1   | Horizontal | PK    | Pass    |
| 5                  | 13984.5000  | 42.31            | 19.08       | 23.23          | 54         | -11.69      | 114.1   | Horizontal | AV    | Pass    |
| 6                  | 17895.0000  | 53.21            | 23.23       | 29.98          | 74         | -20.79      | 245.6   | Horizontal | PK    | Pass    |
| 6                  | 17895.0000  | 46.1             | 23.23       | 22.87          | 54         | -7.9        | 245.6   | Horizontal | AV    | Pass    |

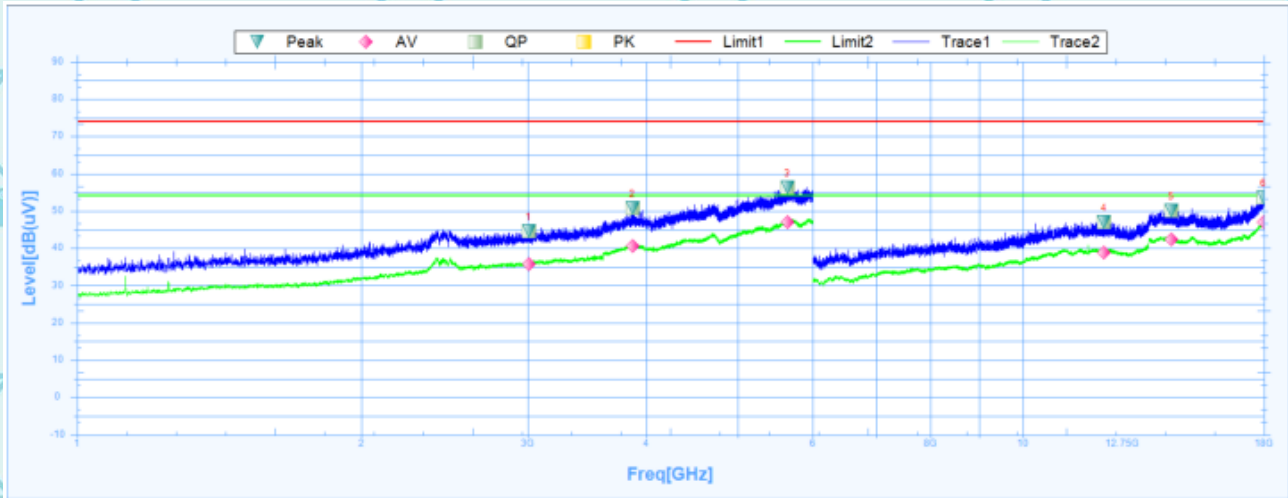
Report No.: WSCT-ANAB-R&E241200078A-BT  
Vertical:



**Suspected Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|-----|-------------|------------------|-------------|----------------|------------|-------------|---------|----------|-------|---------|
| 1   | 2486.2500   | 45.63            | 27.55       | 18.08          | 74         | -28.37      | 333.2   | Vertical | PK    | Pass    |
| 1   | 2486.2500   | 36.58            | 27.55       | 9.03           | 54         | -17.42      | 333.2   | Vertical | AV    | Pass    |
| 2   | 3756.8750   | 47.8             | 29.12       | 18.68          | 74         | -26.2       | 116.8   | Vertical | PK    | Pass    |
| 2   | 3756.8750   | 39.93            | 29.12       | 10.81          | 54         | -14.07      | 116.8   | Vertical | AV    | Pass    |
| 3   | 5172.5000   | 60.04            | 31.74       | 28.3           | 74         | -13.96      | 357.7   | Vertical | PK    | Pass    |
| 3   | 5172.5000   | 44.7             | 31.74       | 12.96          | 54         | -9.3        | 357.7   | Vertical | AV    | Pass    |
| 4   | 11133.0000  | 47.43            | 15.83       | 31.6           | 74         | -26.57      | 78      | Vertical | PK    | Pass    |
| 4   | 11133.0000  | 39.19            | 15.83       | 23.36          | 54         | -14.81      | 78      | Vertical | AV    | Pass    |
| 5   | 13606.5000  | 51.29            | 17.99       | 33.3           | 74         | -22.71      | 261     | Vertical | PK    | Pass    |
| 5   | 13606.5000  | 42.33            | 17.99       | 24.34          | 54         | -11.67      | 261     | Vertical | AV    | Pass    |
| 6   | 17979.0000  | 54.49            | 23.78       | 30.71          | 74         | -19.51      | 229.8   | Vertical | PK    | Pass    |
| 6   | 17979.0000  | 47.15            | 23.78       | 23.37          | 54         | -6.85       | 229.8   | Vertical | AV    | Pass    |

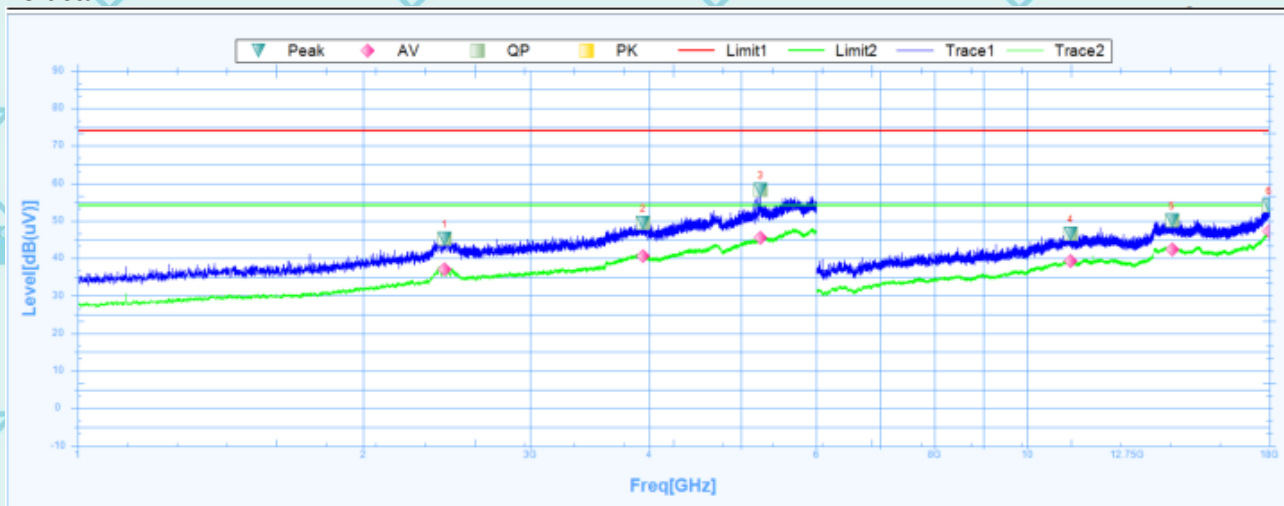
Report No.: WSCT-ANAB-R&E241200078A-BT  
High channel: 2480MHz  
Horizontal:



| Susputed Data List |             |                  |             |                |            |             |         |            |       |         |
|--------------------|-------------|------------------|-------------|----------------|------------|-------------|---------|------------|-------|---------|
| NO.                | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity   | Trace | Verdict |
| 1                  | 3003.7500   | 44.6             | 28.2        | 16.4           | 74         | -29.4       | 307     | Horizontal | PK    | Pass    |
| 1                  | 3003.7500   | 35.71            | 28.2        | 7.51           | 54         | -18.29      | 307     | Horizontal | AV    | Pass    |
| 2                  | 3867.5000   | 50.78            | 29.38       | 21.4           | 74         | -23.22      | 0       | Horizontal | PK    | Pass    |
| 2                  | 3867.5000   | 40.6             | 29.38       | 11.22          | 54         | -13.4       | 0       | Horizontal | AV    | Pass    |
| 3                  | 5641.2500   | 56.3             | 32.23       | 24.07          | 74         | -17.7       | 0       | Horizontal | PK    | Pass    |
| 3                  | 5641.2500   | 46.99            | 32.23       | 14.76          | 54         | -7.01       | 0       | Horizontal | AV    | Pass    |
| 4                  | 12196.5000  | 47.07            | 16.54       | 30.53          | 74         | -26.93      | 137.9   | Horizontal | PK    | Pass    |
| 4                  | 12196.5000  | 38.8             | 16.54       | 22.26          | 54         | -15.2       | 137.9   | Horizontal | AV    | Pass    |
| 5                  | 14364.0000  | 50.07            | 18.76       | 31.31          | 74         | -23.93      | 137.9   | Horizontal | PK    | Pass    |
| 5                  | 14364.0000  | 42.38            | 18.76       | 23.62          | 54         | -11.62      | 137.9   | Horizontal | AV    | Pass    |
| 6                  | 17976.0000  | 53.53            | 23.76       | 29.77          | 74         | -20.47      | 360     | Horizontal | PK    | Pass    |
| 6                  | 17976.0000  | 47.05            | 23.76       | 23.29          | 54         | -6.95       | 360     | Horizontal | AV    | Pass    |

Report No.: WSCT-ANAB-R&amp;E241200078A-BT

Vertical:



Suspected Data List

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|-----|-------------|------------------|-------------|----------------|------------|-------------|---------|----------|-------|---------|
| 1   | 2436.8750   | 45.31            | 27.39       | 17.92          | 74         | -28.69      | 0       | Vertical | PK    | Pass    |
| 1   | 2436.8750   | 37.07            | 27.39       | 9.68           | 54         | -16.93      | 0       | Vertical | AV    | Pass    |
| 2   | 3942.5000   | 49.5             | 29.56       | 19.94          | 74         | -24.5       | 319     | Vertical | PK    | Pass    |
| 2   | 3942.5000   | 40.68            | 29.56       | 11.12          | 54         | -13.32      | 319     | Vertical | AV    | Pass    |
| 3   | 5243.1250   | 58.27            | 31.79       | 26.48          | 74         | -15.73      | 146.8   | Vertical | PK    | Pass    |
| 3   | 5243.1250   | 45.36            | 31.79       | 13.57          | 54         | -8.64       | 146.8   | Vertical | AV    | Pass    |
| 4   | 11115.0000  | 46.64            | 15.86       | 30.78          | 74         | -27.36      | 360.1   | Vertical | PK    | Pass    |
| 4   | 11115.0000  | 39.34            | 15.86       | 23.48          | 54         | -14.66      | 360.1   | Vertical | AV    | Pass    |
| 5   | 14215.5000  | 50.05            | 18.91       | 31.14          | 74         | -23.95      | 95      | Vertical | PK    | Pass    |
| 5   | 14215.5000  | 42.32            | 18.91       | 23.41          | 54         | -11.68      | 95      | Vertical | AV    | Pass    |
| 6   | 17991.0000  | 54.04            | 23.87       | 30.17          | 74         | -19.96      | 294.6   | Vertical | PK    | Pass    |
| 6   | 17991.0000  | 47.18            | 23.87       | 23.31          | 54         | -6.82       | 294.6   | Vertical | AV    | Pass    |

**Note:**

1. The emission levels of other frequencies are very lower than the limit and not show in test report.
2. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
3. Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
4. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.

Report No.: WSCT-ANAB-R&amp;E241200078A-BT

### 6.11.3. Restricted Bands Requirements

Bluetooth (GFSK, Pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result GFSK model was report as below

| Frequency    | Reading  | Correct Factor | Emission Level | Limit    | Margin | Polar | Detector |
|--------------|----------|----------------|----------------|----------|--------|-------|----------|
| (MHz)        | (dBuV/m) | dB/m           | (dBuV/m)       | (dBuV/m) | (dB)   | H/V   |          |
| Low Channel  |          |                |                |          |        |       |          |
| 2387         | 62.18    | -8.76          | 53.42          | 74       | -20.58 | H     | PK       |
| 2387         | 53.20    | -8.76          | 44.44          | 54       | -9.56  | H     | AV       |
| 2387         | 59.58    | -8.73          | 50.85          | 74       | -23.15 | V     | PK       |
| 2387         | 55.74    | -8.73          | 47.01          | 54       | -6.99  | V     | AV       |
| 2390         | 64.95    | -8.76          | 56.19          | 74       | -17.81 | H     | PK       |
| 2390         | 56.49    | -8.76          | 47.73          | 54       | -6.27  | H     | AV       |
| 2390         | 62.37    | -8.73          | 53.64          | 74       | -20.36 | V     | PK       |
| 2390         | 57.38    | -8.73          | 48.65          | 54       | -5.35  | V     | AV       |
| High Channel |          |                |                |          |        |       |          |
| 2483.5       | 64.38    | -8.76          | 55.62          | 74       | -18.38 | H     | PK       |
| 2483.5       | 55.36    | -8.76          | 46.60          | 54       | -7.40  | H     | AV       |
| 2483.5       | 60.32    | -8.73          | 51.59          | 74       | -22.41 | V     | PK       |
| 2483.5       | 56.96    | -8.73          | 48.23          | 54       | -5.77  | V     | AV       |

Note: Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Level (dBuV) – Limits (dBuV)

\*\*\*\*\*END OF REPORT\*\*\*\*\*