

# SPURIOUS CONDUCTED EMISSIONS



XMIT 2020.12.30.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model  | ID  | Last Cal.  | Cal. Due   |
|------------------------------|--------------------|--------|-----|------------|------------|
| Block - DC                   | Fairview Microwave | SD3239 | ANC | 2021-06-24 | 2022-06-24 |
| Analyzer - Spectrum Analyzer | Agilent            | N9010A | AFL | 2021-03-11 | 2022-03-11 |
| Block - DC                   | Fairview Microwave | SD3379 | AMM | 2020-09-21 | 2021-09-21 |
| Generator - Signal           | Agilent            | N5173B | TIW | 2020-07-17 | 2023-07-17 |

## TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT through 3 different attenuation configurations which continues through to the RF input of the spectrum analyzer. Analyzer plots utilizing a resolution bandwidth called out by the client's test plan were made for each modulation type from 9 KHz to 20 GHz. The peak conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated to ensure they were less than the limits also called out by the client's test plan shown below.

The measurement methods are detailed in KDB971168 D01v03 section 6 and ANSI C63.26-2015.

Per FCC 2.1057(a)(1) and RSS Gen 6.13, the upper level of measurement is the 10th harmonic of the highest fundamental frequency.

These measurements are for frequency band after the first 1.0 MHz bands immediately outside and adjacent to the frequency block.

Per section FCC 24.238(a), RSS-133 6.5 (ii), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm for a 1 MHz measurement bandwidth. The limit is adjusted to -25 dBm [-13 dBm -10 log (16)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 16 port MIMO transmitter. RF conducted emissions testing was performed on one port. The AAFB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification report) and port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

The limit for the 9kHz to 150kHz frequency range was adjusted to -55dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: -55dBm = -25dBm -10log(1MHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -45dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: -45dBm = -25dBm -10log(1MHz/10kHz)]. The required limit of -25dBm with a RBW of > 1MHz was used for all other frequency ranges.

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TstTx 2021.03.19.1 XMI 2020.12.30.0

|  |                             |
|--|-----------------------------|
| EUT: AAFB (FCC/ISED C2PC)              | Work Order: NOKI0031        |
| Serial Number: BL2032H23PI             | Date: 26-Jul-21             |
| Customer: Nokia Solutions and Networks | Temperature: 21.4 °C        |
| Attendees: David Le, Mitchell Hill     | Humidity: 55.4% RH          |
| Project: None                          | Barometric Pres.: 1017 mbar |
| Tested by: Brandon Hobbs               | Power: 54 VDC               |
|  | Job Site: TX09              |

|                              |                              |
|------------------------------|------------------------------|
| TEST SPECIFICATIONS          | Test Method                  |
| FCC 24E:2021                 | ANSI C63.26:2015             |
| RSS-133 Issue 6:2013+A1:2018 | RSS-133 Issue 6:2013+A1:2018 |

COMMENTS  
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. Band n25 carriers are enabled at maximum power (6.25 watts/carrier).

DEVIATIONS FROM TEST STANDARD  
None

|                 |       |           |  |
|-----------------|-------|-----------|--|
| Configuration # | 1,2,3 | Signature |  |
|-----------------|-------|-----------|--|

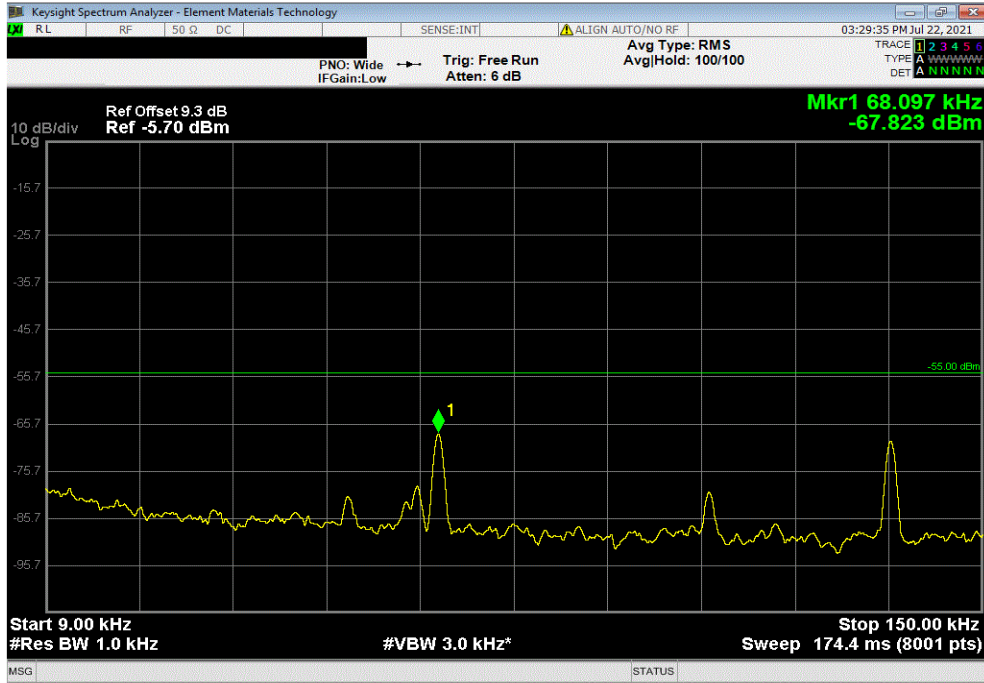
| Band n25, 1930 MHz - 1995 MHz, 5G | Port 1                  | Frequency Range     | Value (dBm) | Limit (dBm) | Result |
|-----------------------------------|-------------------------|---------------------|-------------|-------------|--------|
| 5 MHz Bandwidth                   |                         |                     |             |             |        |
| QPSK Modulation                   |                         |                     |             |             |        |
|                                   | Mid Channel, 1962.5 MHz | 9 kHz - 150 kHz     | -67.8       | -55         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 150 kHz - 20 MHz    | -75.4       | -45         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 20 MHz - 3 GHz      | -31.2       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 1910 MHz - 2010 MHz | -35.3       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 3 GHz - 12 GHz      | -40.3       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 12 GHz - 20 GHz     | -40.5       | -25         | Pass   |
| 16-QAM Modulation                 |                         |                     |             |             |        |
|                                   | Mid Channel, 1962.5 MHz | 9 kHz - 150 kHz     | -68.8       | -55         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 150 kHz - 20 MHz    | -75.5       | -45         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 20 MHz - 3 GHz      | -31.5       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 1910 MHz - 2010 MHz | -35.4       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 3 GHz - 12 GHz      | -40.7       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 12 GHz - 20 GHz     | -40.4       | -25         | Pass   |
| 64-QAM Modulation                 |                         |                     |             |             |        |
|                                   | Mid Channel, 1962.5 MHz | 9 kHz - 150 kHz     | -68.0       | -55         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 150 kHz - 20 MHz    | -76.1       | -45         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 20 MHz - 3 GHz      | -31.9       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 1910 MHz - 2010 MHz | -35.1       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 3 GHz - 12 GHz      | -40.2       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 12 GHz - 20 GHz     | -40.3       | -25         | Pass   |
| 256-QAM Modulation                |                         |                     |             |             |        |
|                                   | Mid Channel, 1962.5 MHz | 9 kHz - 150 kHz     | -68.4       | -55         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 150 kHz - 20 MHz    | -76.3       | -45         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 20 MHz - 3 GHz      | -31.4       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 1910 MHz - 2010 MHz | -35.5       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 3 GHz - 12 GHz      | -40.4       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 12 GHz - 20 GHz     | -40.4       | -25         | Pass   |
| 10 MHz Bandwidth                  |                         |                     |             |             |        |
| 256-QAM Modulation                |                         |                     |             |             |        |
|                                   | Mid Channel, 1962.5 MHz | 9 kHz - 150 kHz     | -67.8       | -55         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 150 kHz - 20 MHz    | -77.3       | -45         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 20 MHz - 3 GHz      | -31.2       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 1910 MHz - 2010 MHz | -35.1       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 3 GHz - 12 GHz      | -41.1       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 12 GHz - 20 GHz     | -40.4       | -25         | Pass   |
| 15 MHz Bandwidth                  |                         |                     |             |             |        |
| 256-QAM Modulation                |                         |                     |             |             |        |
|                                   | Mid Channel, 1962.5 MHz | 9 kHz - 150 kHz     | -68.3       | -55         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 150 kHz - 20 MHz    | -77.7       | -45         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 20 MHz - 3 GHz      | -31.3       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 1910 MHz - 2010 MHz | -35.2       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 3 GHz - 12 GHz      | -41.3       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 12 GHz - 20 GHz     | -40.4       | -25         | Pass   |
| 20 MHz Bandwidth                  |                         |                     |             |             |        |
| 256-QAM Modulation                |                         |                     |             |             |        |
|                                   | Mid Channel, 1962.5 MHz | 9 kHz - 150 kHz     | -69.4       | -55         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 150 kHz - 20 MHz    | -77.5       | -45         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 20 MHz - 3 GHz      | -31.5       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 1910 MHz - 2010 MHz | -34.9       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 3 GHz - 12 GHz      | -41.2       | -25         | Pass   |
|                                   | Mid Channel, 1962.5 MHz | 12 GHz - 20 GHz     | -40.5       | -25         | Pass   |

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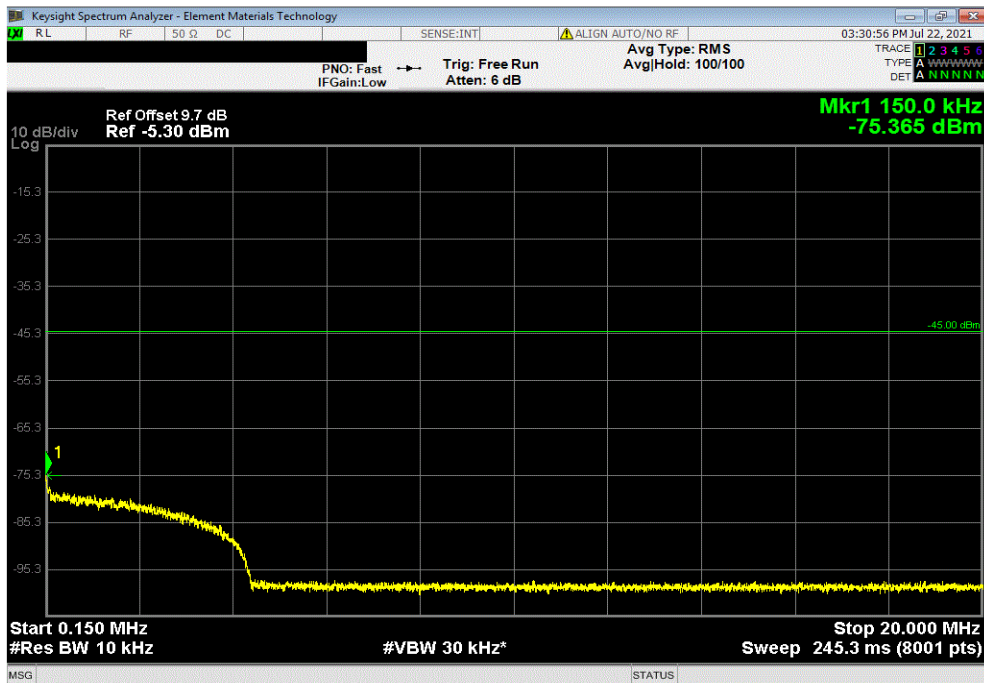


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| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , Mid Channel, 1962.5 MHz |             |             |        |  |  |
|---|-------------|-------------|--------|--|--|
| Frequency   |             |             |        |  |  |
| Range   | Value (dBm) | Limit (dBm) | Result |  |  |
| 9 kHz - 150 kHz   | -67.82      | -55         | Pass   |  |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , Mid Channel, 1962.5 MHz |             |             |        |  |  |
|---|-------------|-------------|--------|--|--|
| Frequency   |             |             |        |  |  |
| Range   | Value (dBm) | Limit (dBm) | Result |  |  |
| 150 kHz - 20 MHz  | -75.36      | -45         | Pass   |  |  |

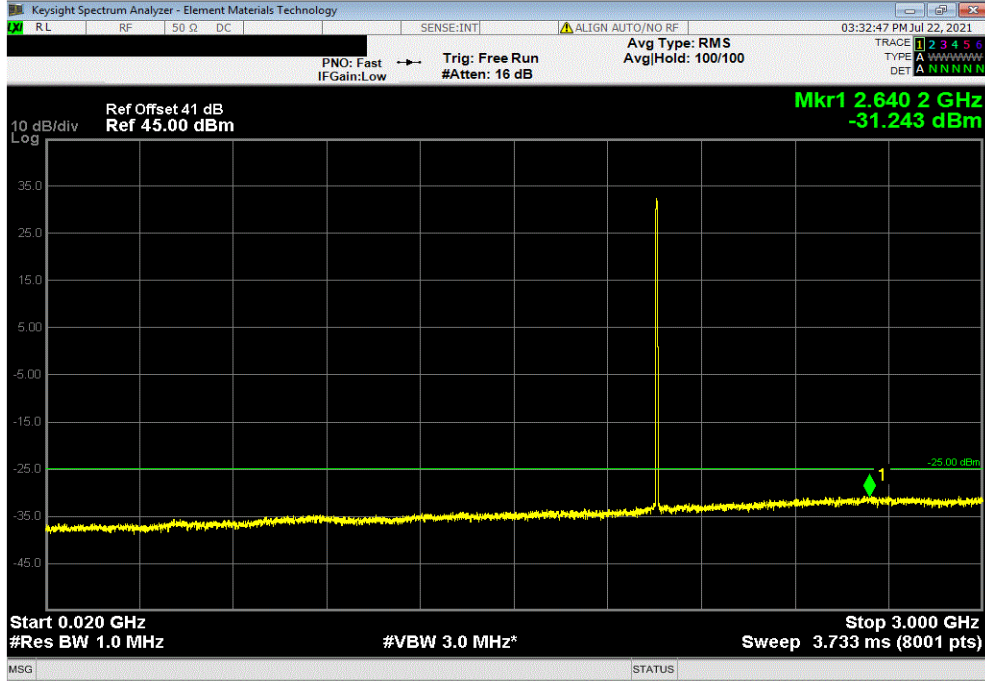


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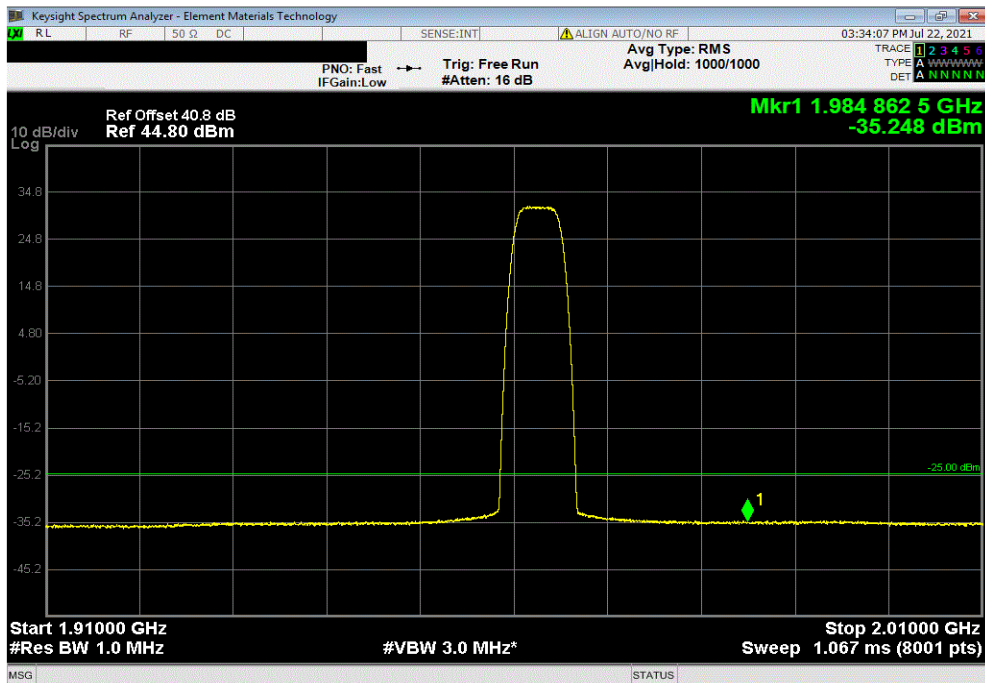


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| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , Mid Channel, 1962.5 MHz |  |             |             |        |  |
|---|--|-------------|-------------|--------|--|
| Frequency Range   |  | Value (dBm) | Limit (dBm) | Result |  |
| 20 MHz - 3 GHz  |  | -31.24      | -25         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , Mid Channel, 1962.5 MHz |  |             |             |        |  |
|---|--|-------------|-------------|--------|--|
| Frequency Range   |  | Value (dBm) | Limit (dBm) | Result |  |
| 1910 MHz - 2010 MHz   |  | -35.25      | -25         | Pass   |  |

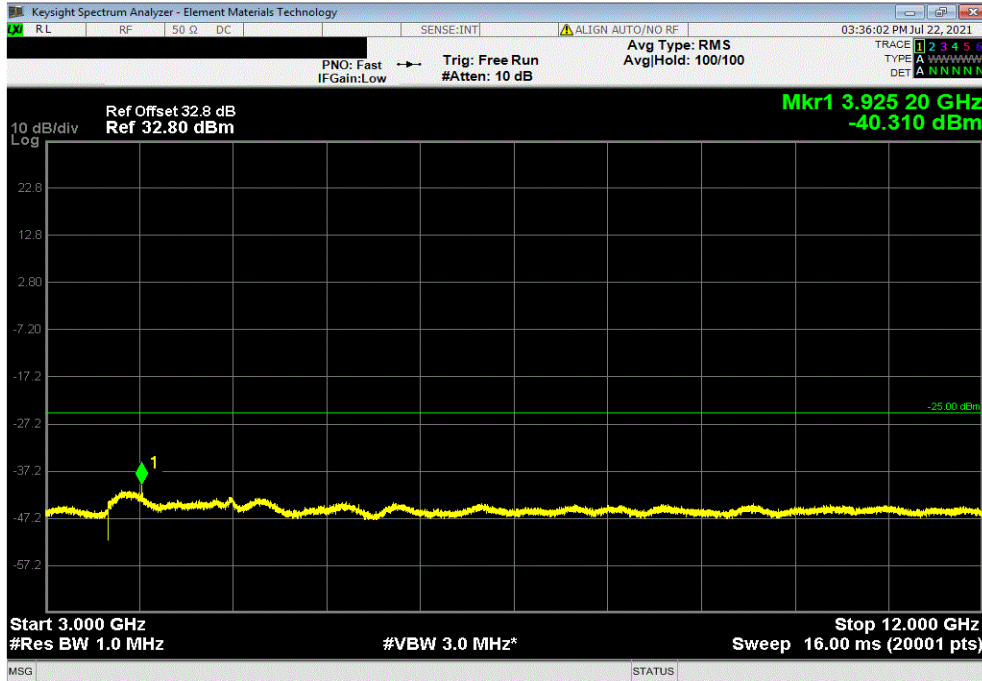


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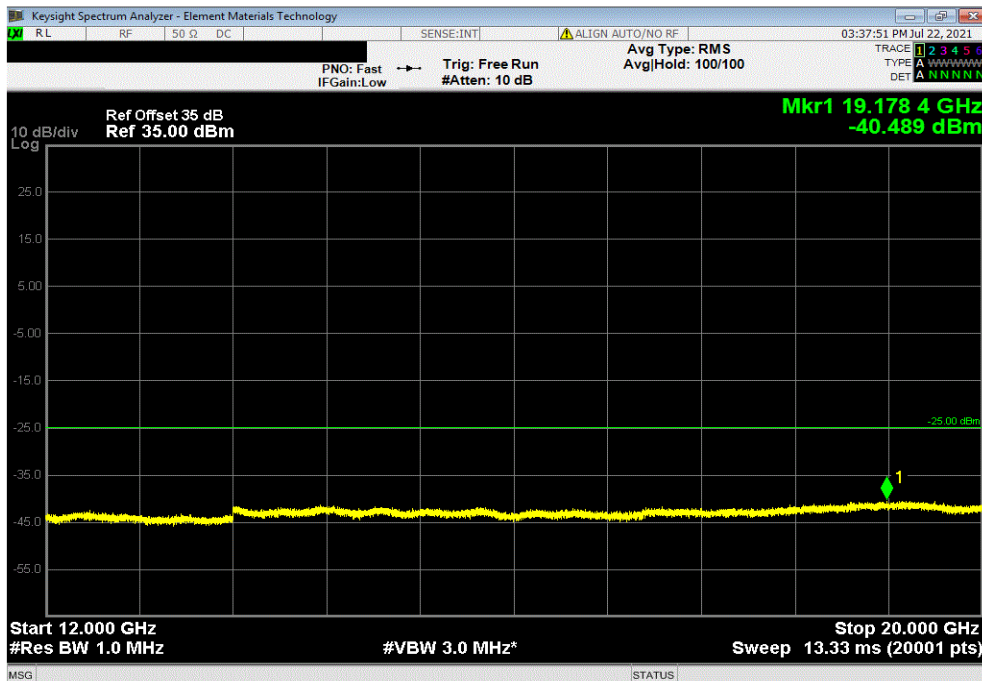


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| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , Mid Channel, 1962.5 MHz |             |             |        |  |  |
|---|-------------|-------------|--------|--|--|
| Frequency   |             |             |        |  |  |
| Range   | Value (dBm) | Limit (dBm) | Result |  |  |
| 3 GHz - 12 GHz  | -40.31      | -25         | Pass   |  |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , Mid Channel, 1962.5 MHz |             |             |        |  |  |
|---|-------------|-------------|--------|--|--|
| Frequency   |             |             |        |  |  |
| Range   | Value (dBm) | Limit (dBm) | Result |  |  |
| 12 GHz - 20 GHz   | -40.49      | -25         | Pass   |  |  |

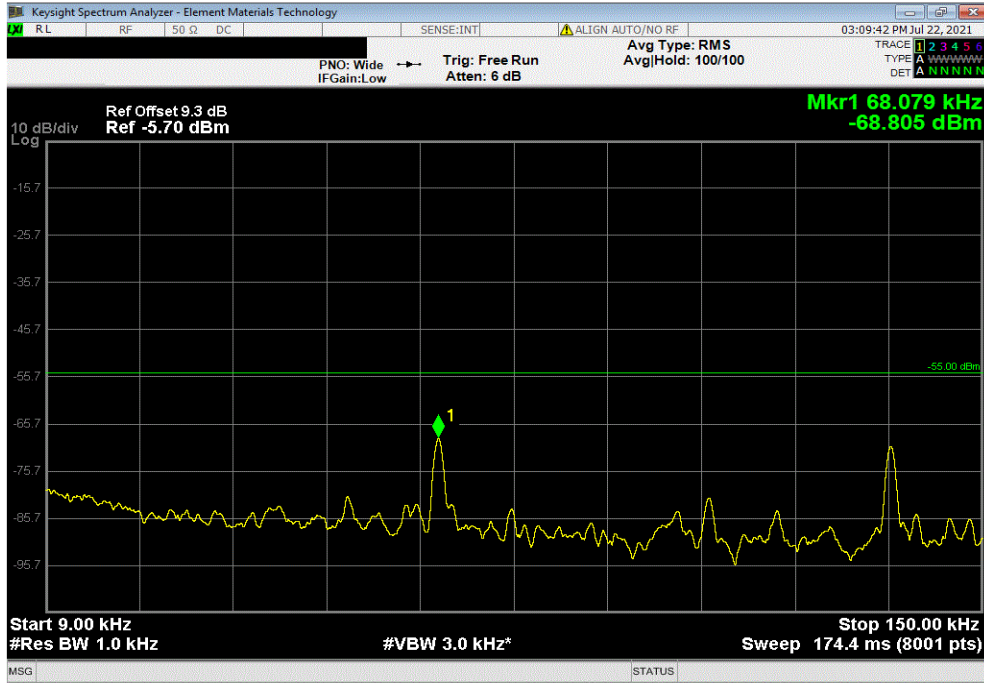


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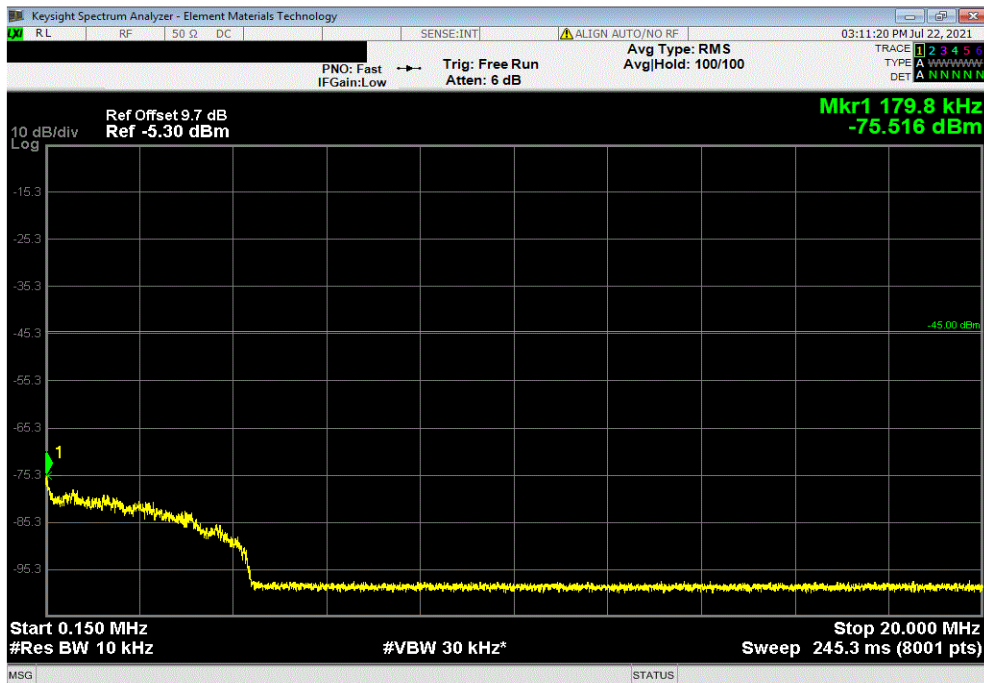


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| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 9 kHz - 150 kHz  |  | -68.81      | -55         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 150 kHz - 20 MHz   |  | -75.52      | -45         | Pass   |  |

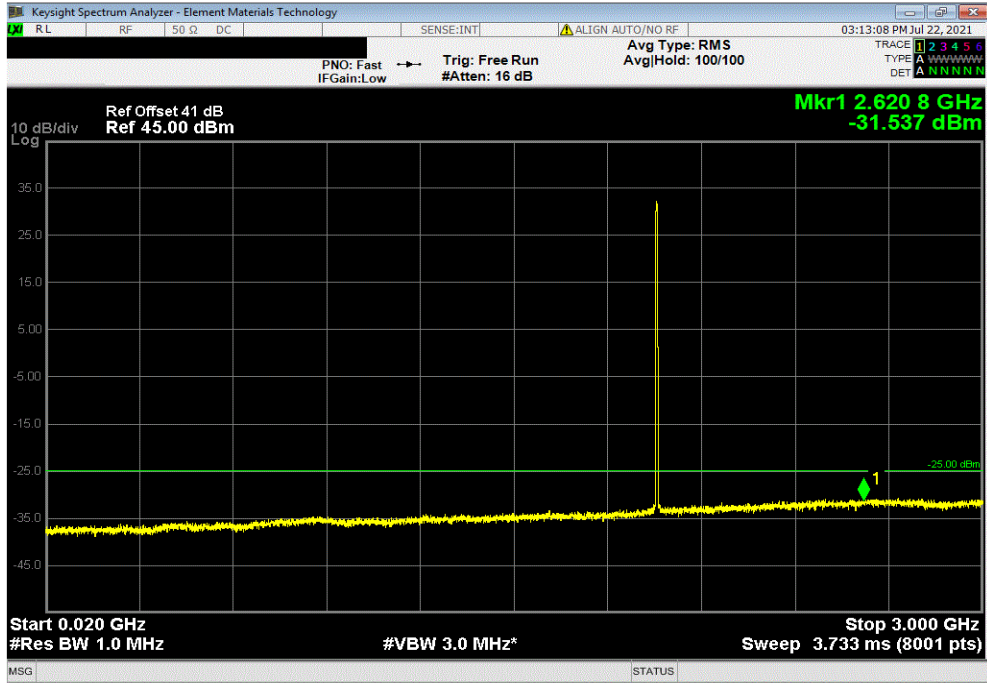


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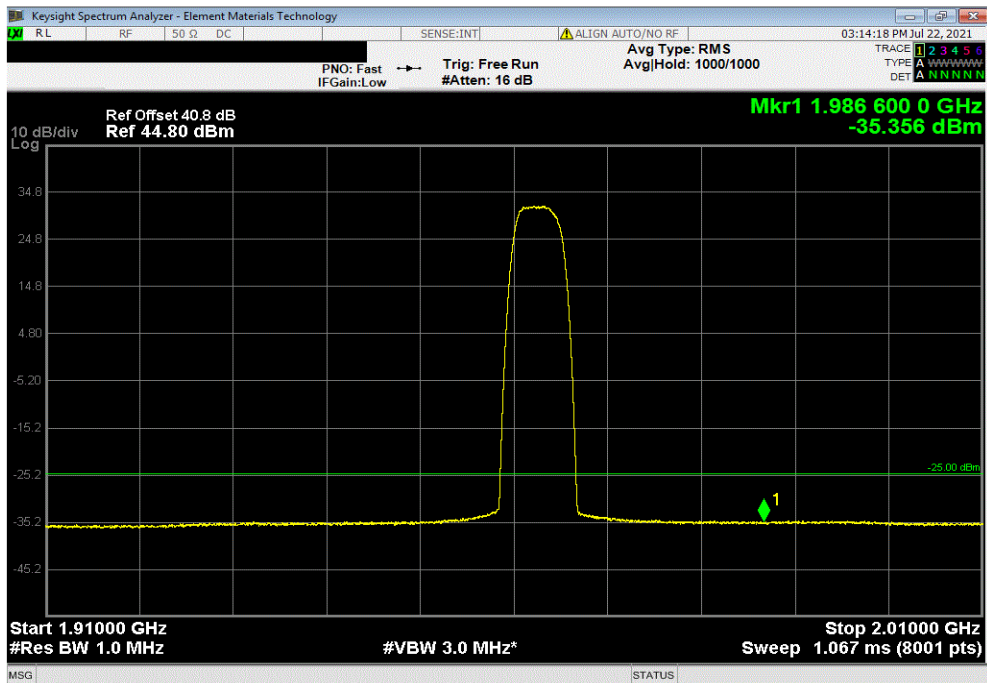


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| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 20 MHz - 3 GHz   |  | -31.54      | -25         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 1910 MHz - 2010 MHz  |  | -35.36      | -25         | Pass   |  |

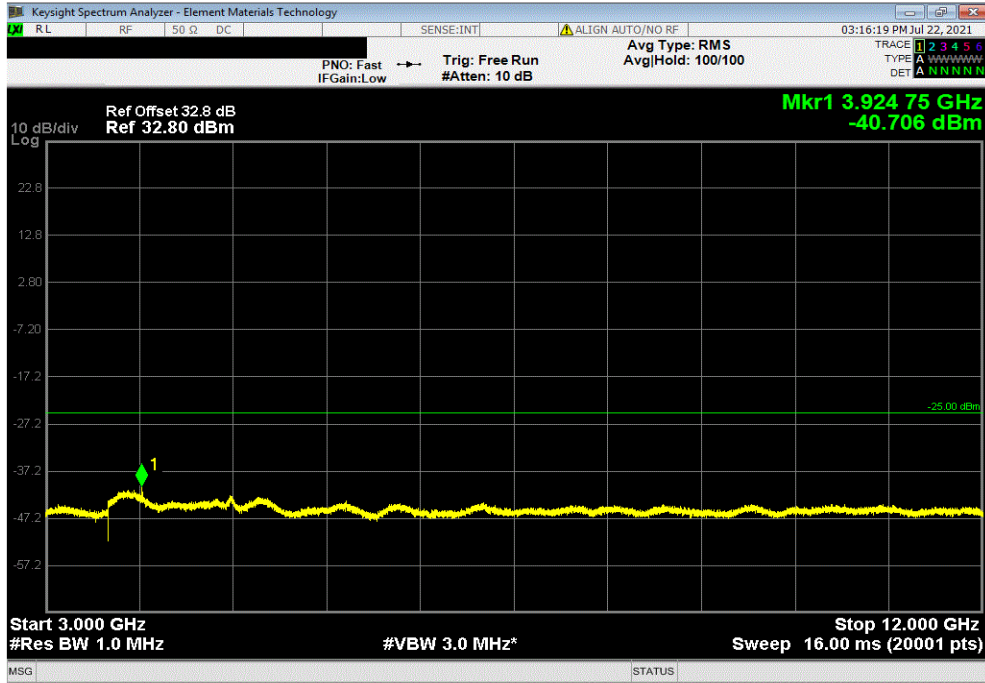


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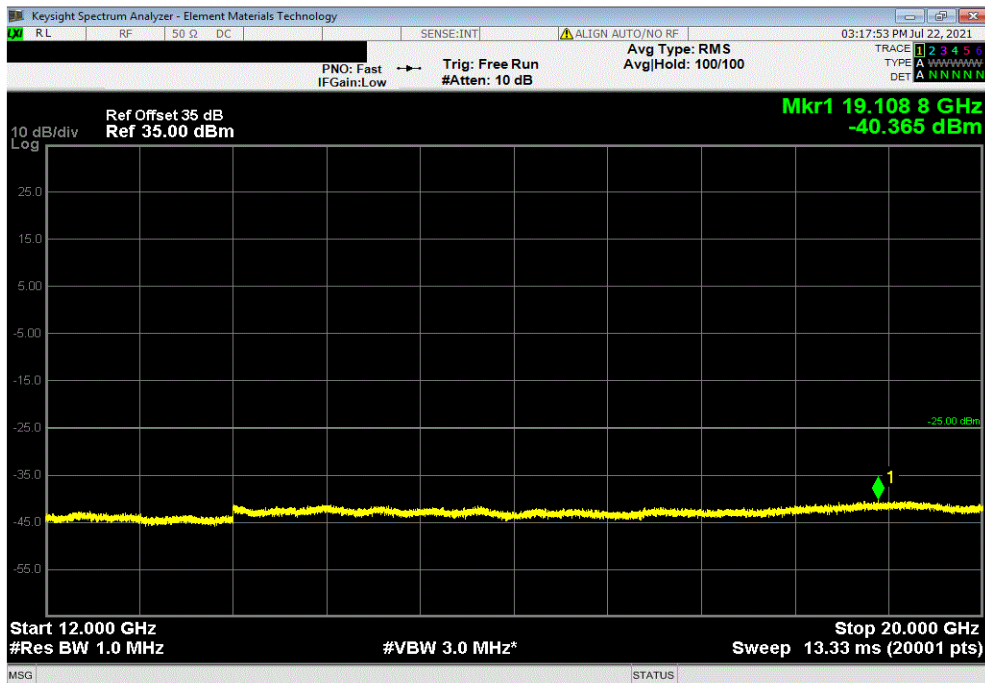


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| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 3 GHz - 12 GHz   |  | -40.71      | -25         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 12 GHz - 20 GHz  |  | -40.37      | -25         | Pass   |  |



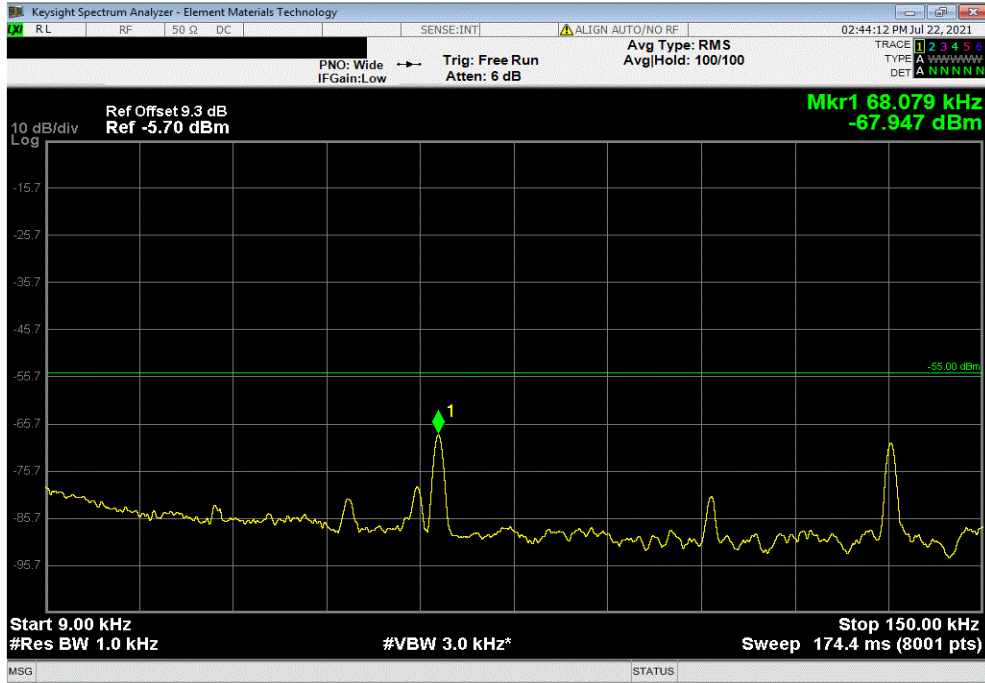


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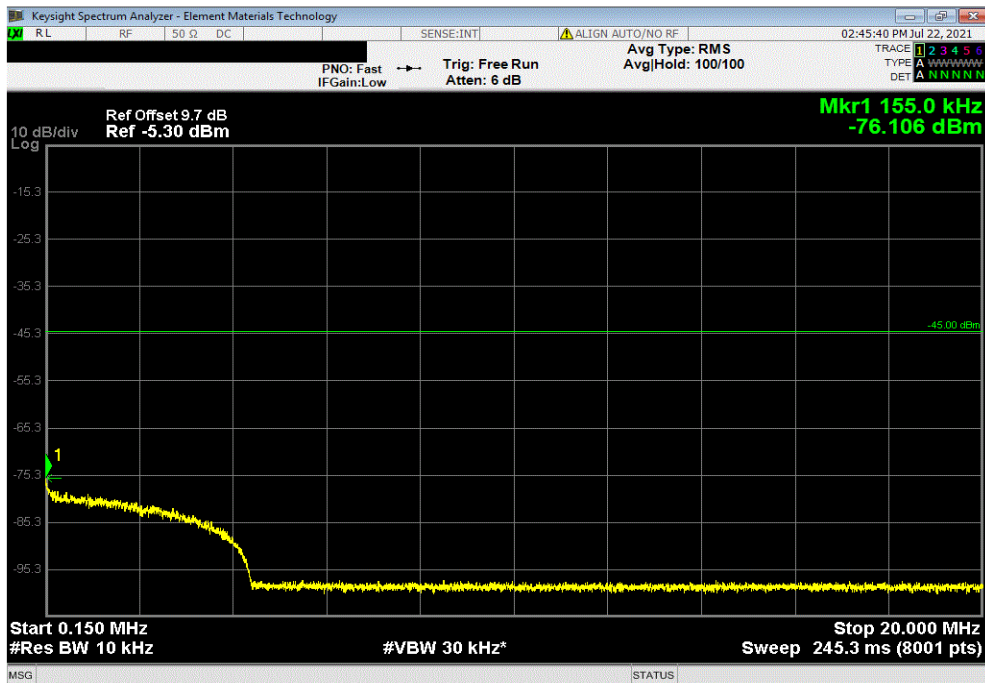


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| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 9 kHz - 150 kHz  |  | -67.95      | -55         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 150 kHz - 20 MHz   |  | -76.11      | -45         | Pass   |  |

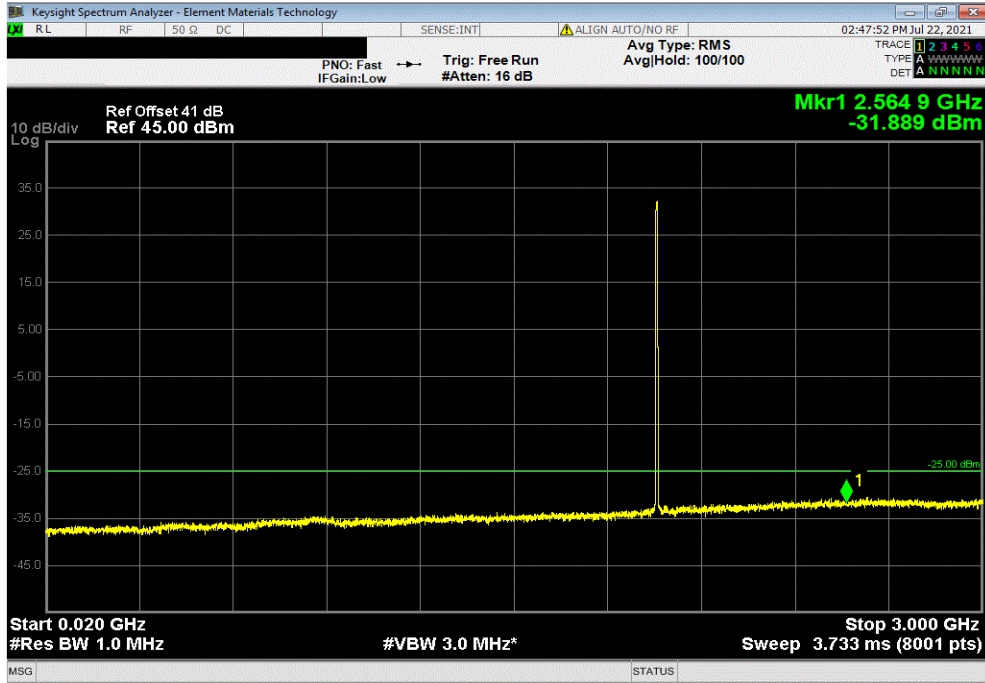


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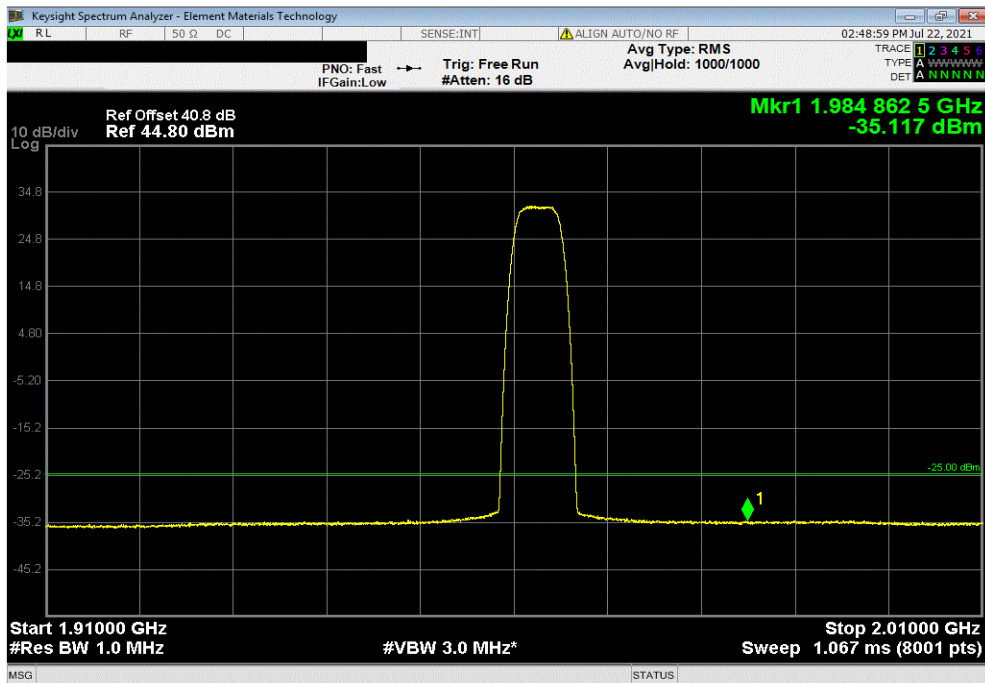


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| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 20 MHz - 3 GHz   |  | -31.89      | -25         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 1910 MHz - 2010 MHz  |  | -35.12      | -25         | Pass   |  |

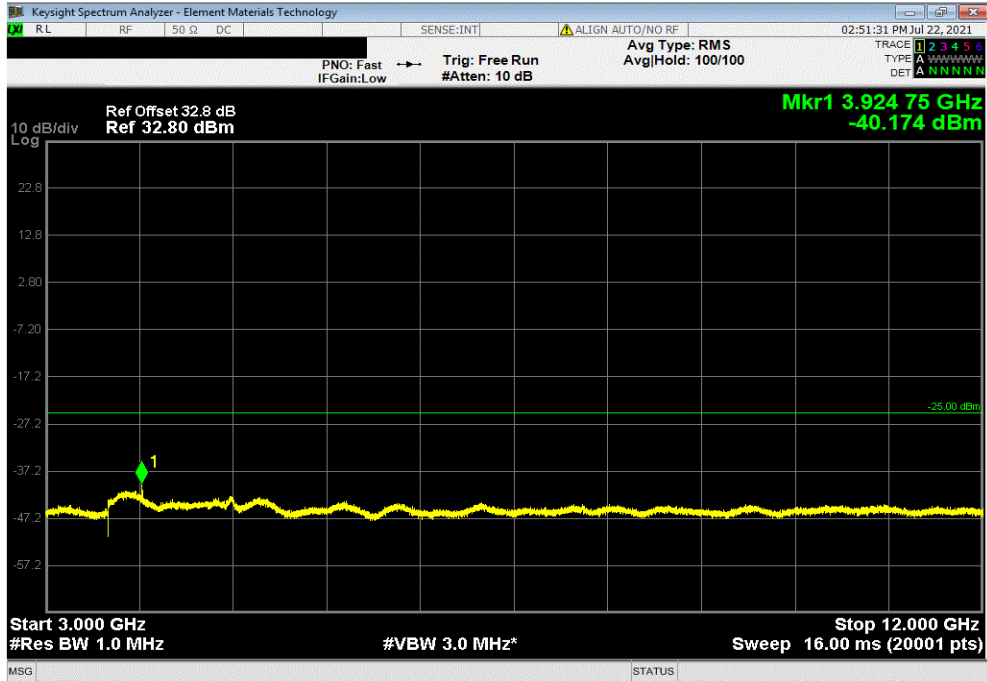


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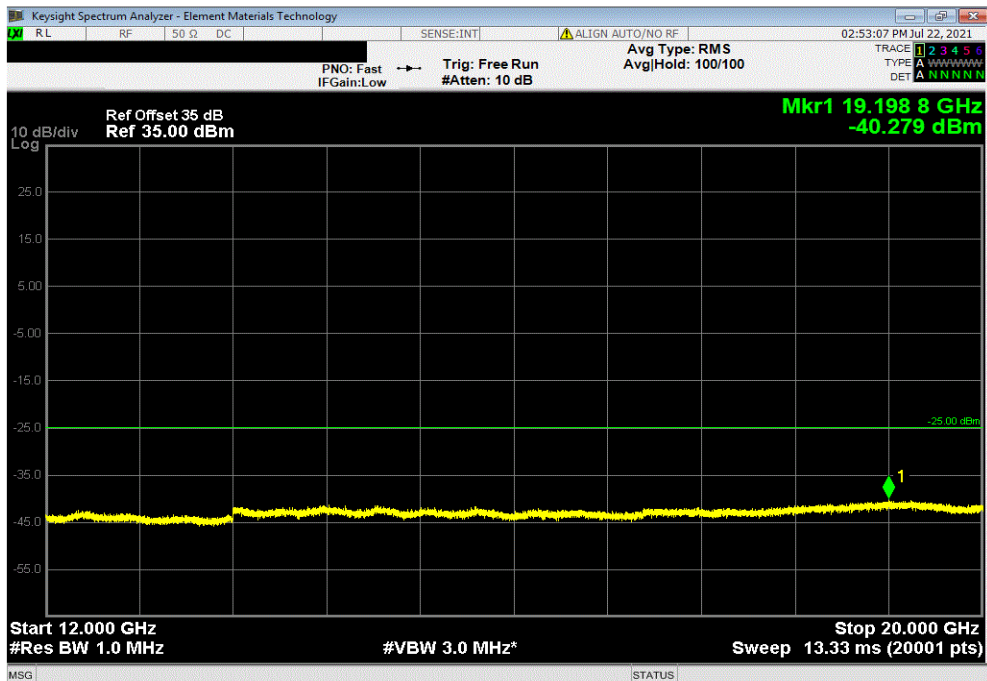


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| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 3 GHz - 12 GHz   | -40.17      | -25         | Pass   |  |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 12 GHz - 20 GHz  | -40.28      | -25         | Pass   |  |  |

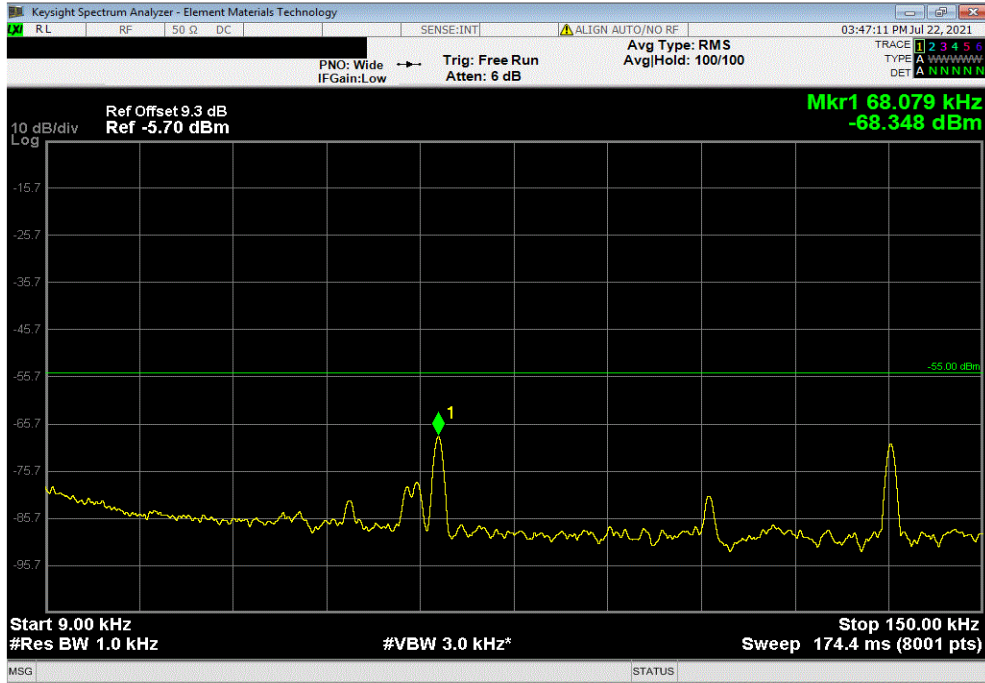


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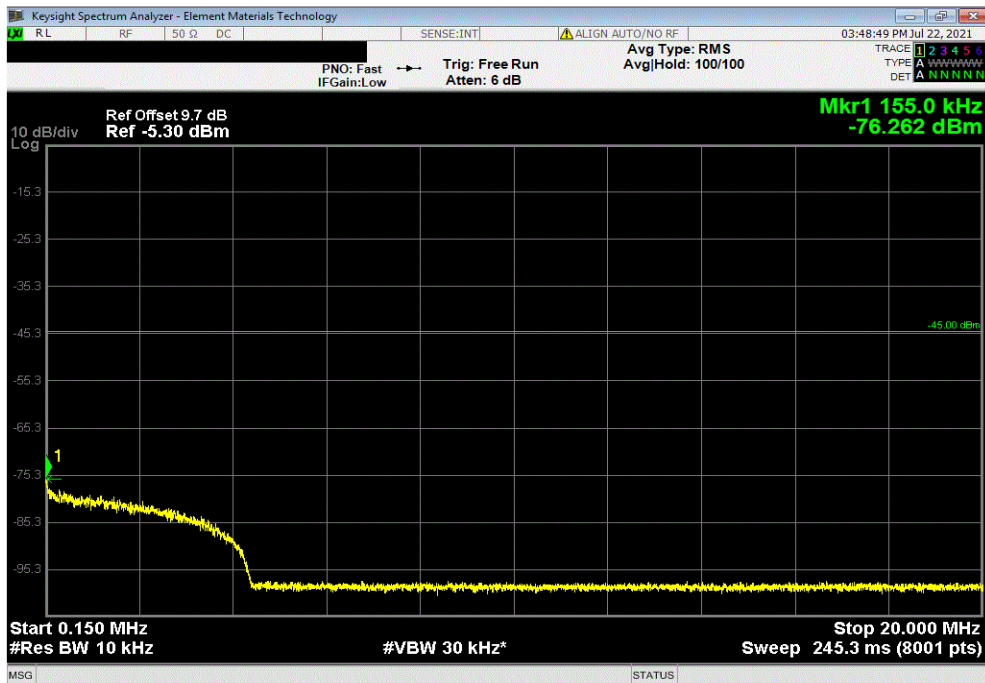


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| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|---|--|-------------|-------------|--------|--|
| Frequency Range   |  | Value (dBm) | Limit (dBm) | Result |  |
| 9 kHz - 150 kHz   |  | -68.35      | -55         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|---|--|-------------|-------------|--------|--|
| Frequency Range   |  | Value (dBm) | Limit (dBm) | Result |  |
| 150 kHz - 20 MHz  |  | -76.26      | -45         | Pass   |  |

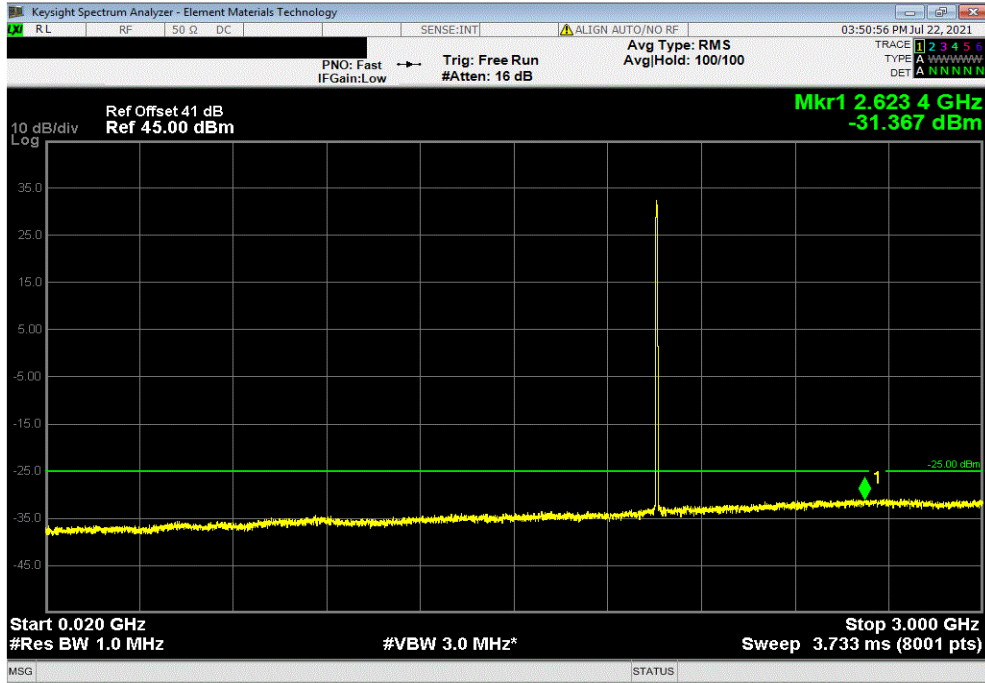


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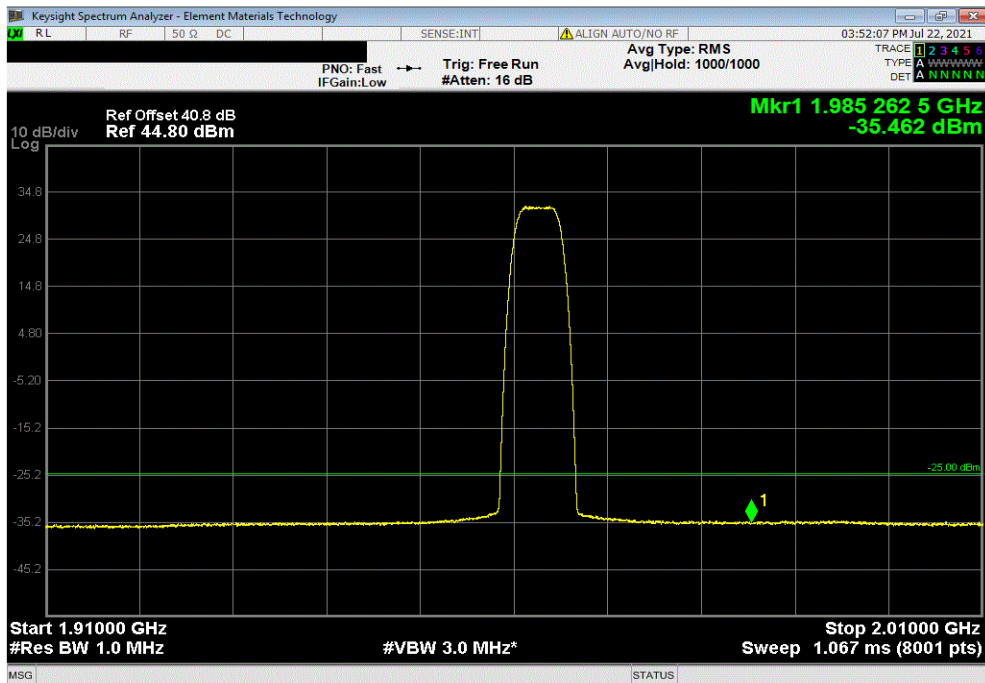


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| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|---|--|-------------|-------------|--------|--|
| Frequency Range   |  | Value (dBm) | Limit (dBm) | Result |  |
| 20 MHz - 3 GHz  |  | -31.37      | -25         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|---|--|-------------|-------------|--------|--|
| Frequency Range   |  | Value (dBm) | Limit (dBm) | Result |  |
| 1910 MHz - 2010 MHz   |  | -35.46      | -25         | Pass   |  |

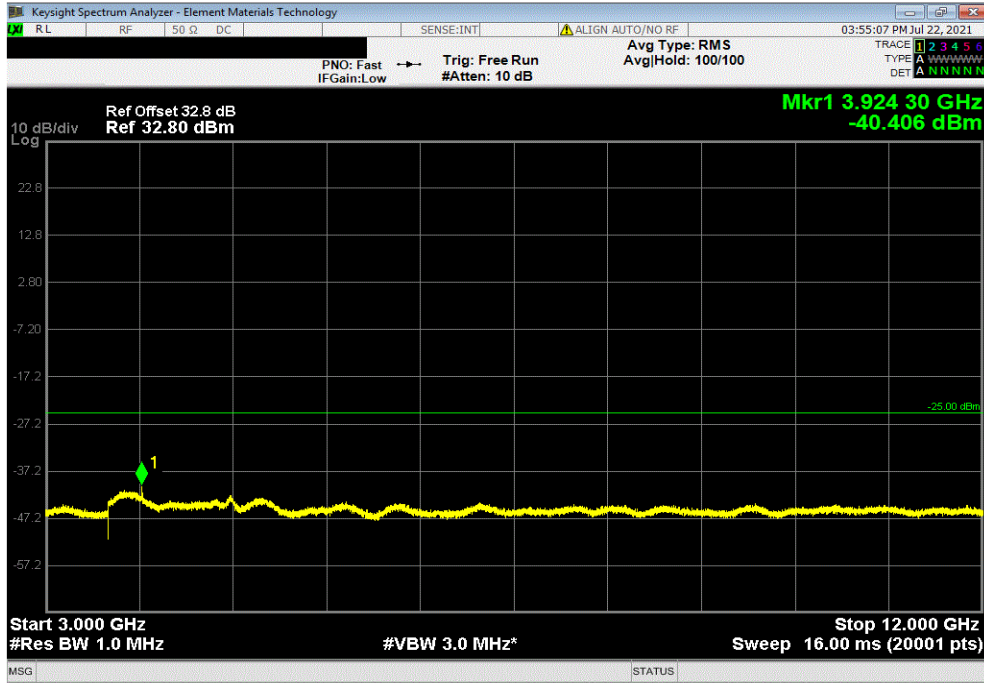


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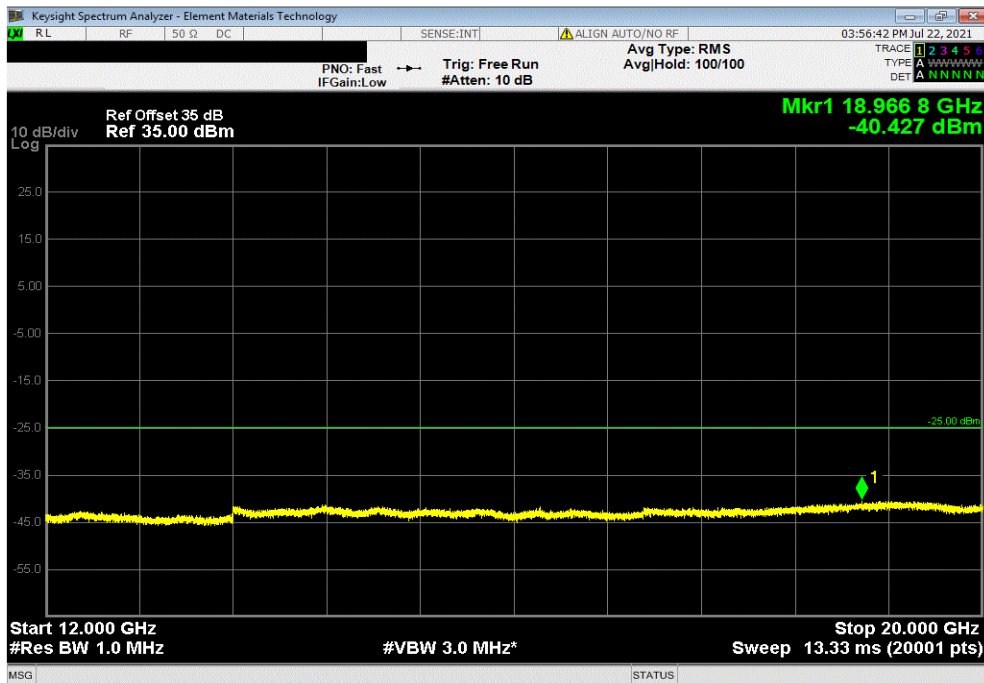


TbTx 2021.03.19.1 XMI 2020.12.30.0

| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|---|-------------|-------------|--------|--|--|
| Frequency   |             |             |        |  |  |
| Range   | Value (dBm) | Limit (dBm) | Result |  |  |
| 3 GHz - 12 GHz  | -40.41      | -25         | Pass   |  |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|---|-------------|-------------|--------|--|--|
| Frequency   |             |             |        |  |  |
| Range   | Value (dBm) | Limit (dBm) | Result |  |  |
| 12 GHz - 20 GHz   | -40.43      | -25         | Pass   |  |  |

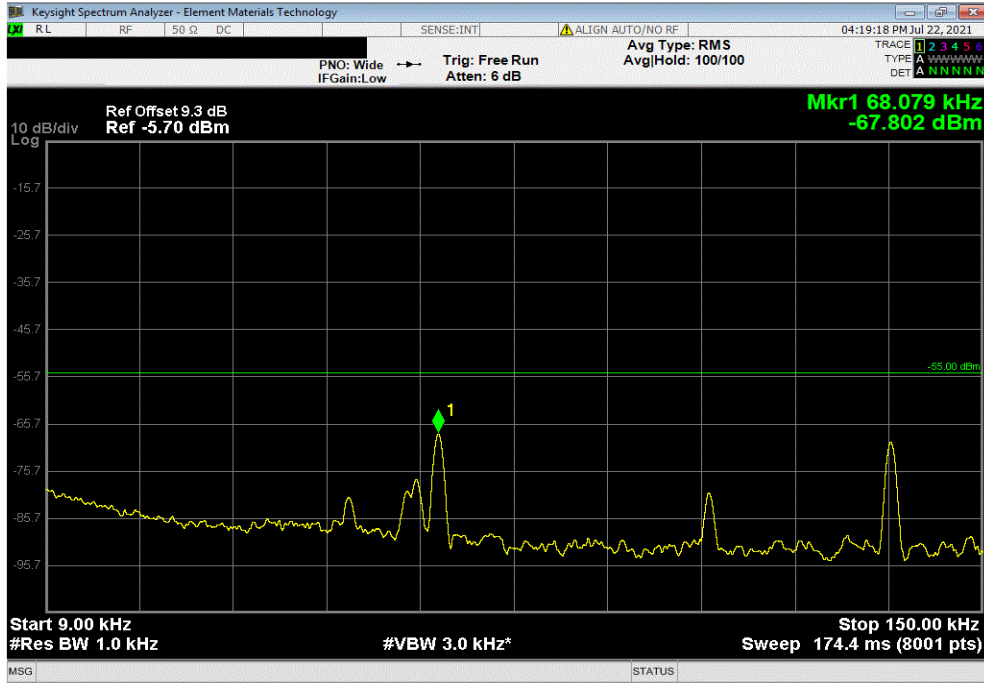


# SPURIOUS CONDUCTED EMISSIONS

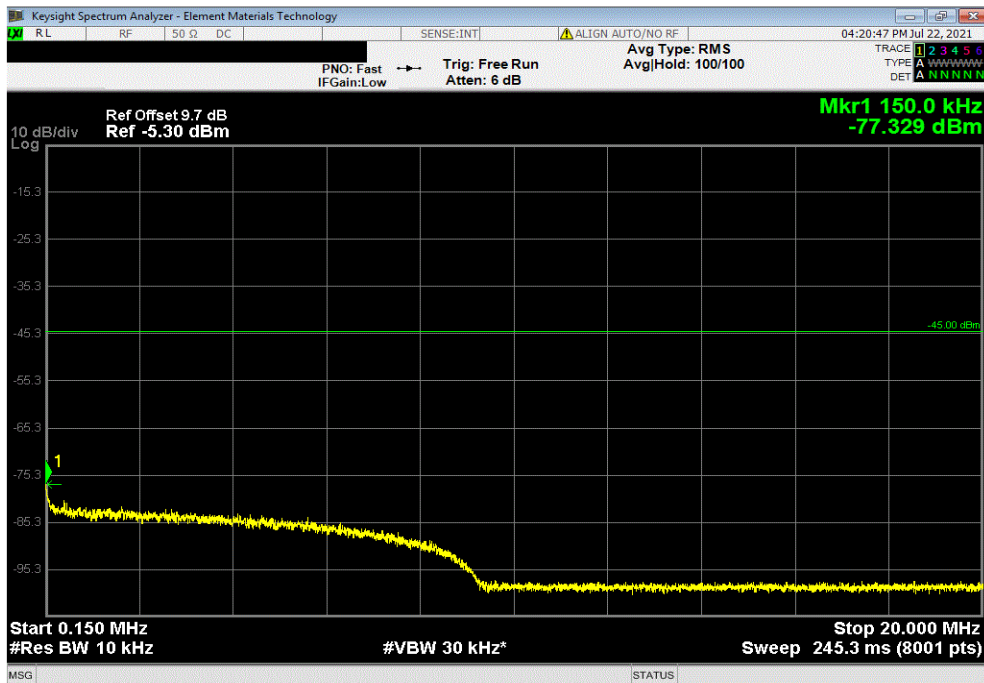


TbTx 2021.03.19.1 XMI 2020.12.30.0

| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 9 kHz - 150 kHz  | -67.8       | -55         | Pass   |  |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 150 kHz - 20 MHz   | -77.33      | -45         | Pass   |  |  |

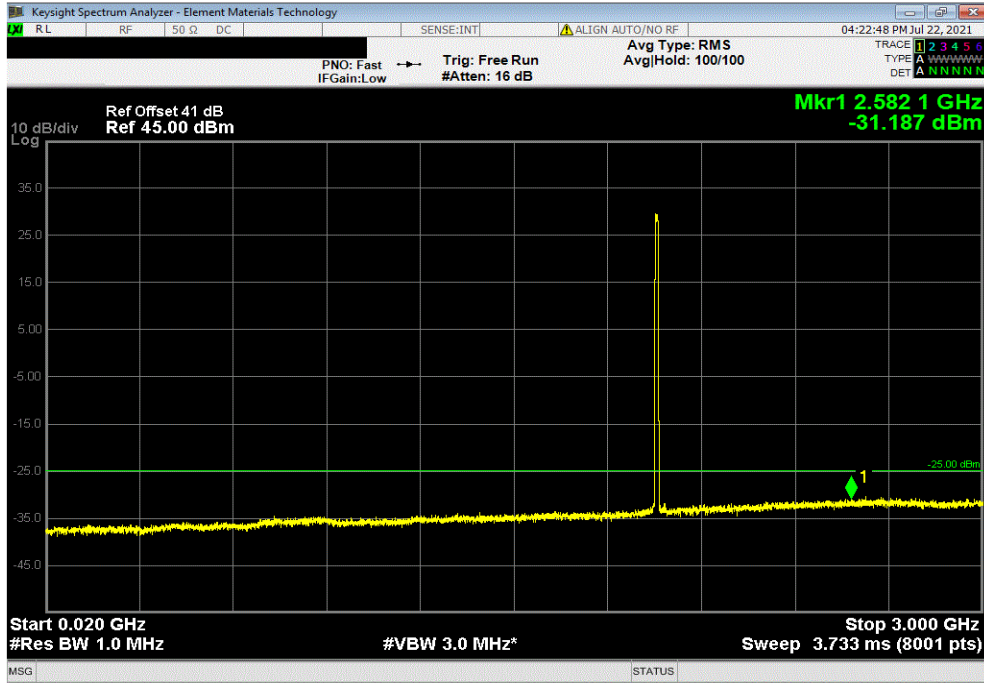


# SPURIOUS CONDUCTED EMISSIONS

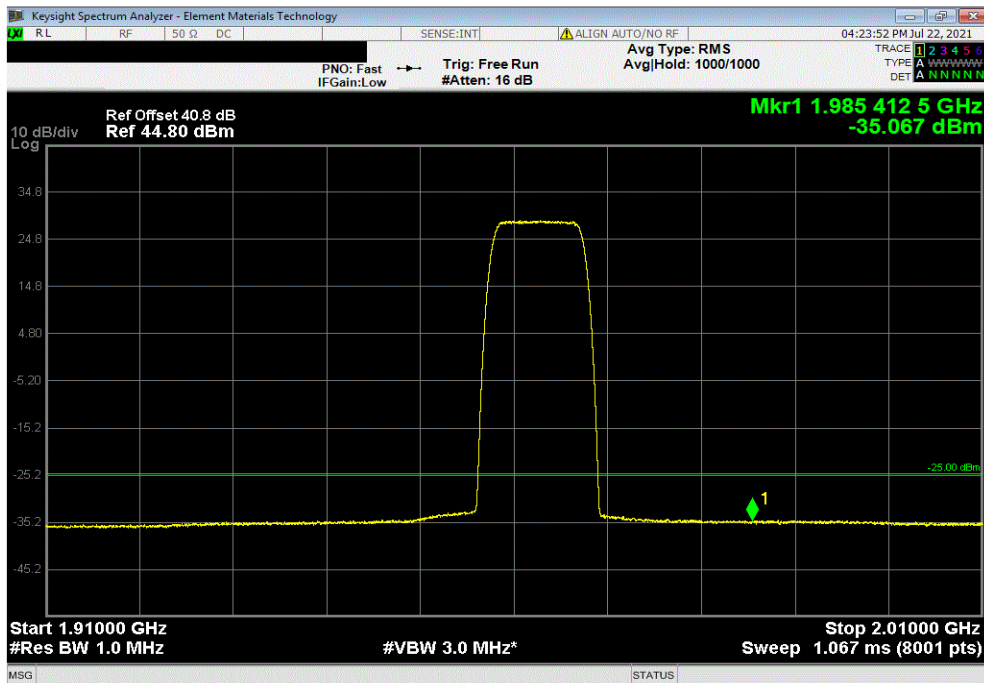


TbTx 2021.03.19.1 XMI 2020.12.30.0

| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 20 MHz - 3 GHz   | -31.19      | -25         | Pass   |  |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 1910 MHz - 2010 MHz  | -35.07      | -25         | Pass   |  |  |



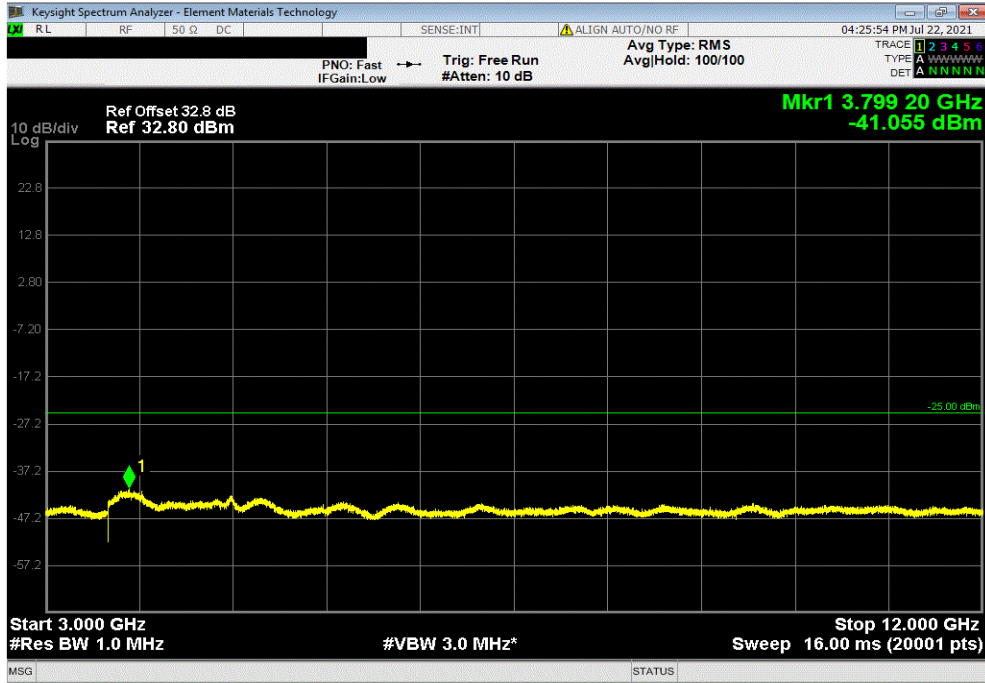


# SPURIOUS CONDUCTED EMISSIONS

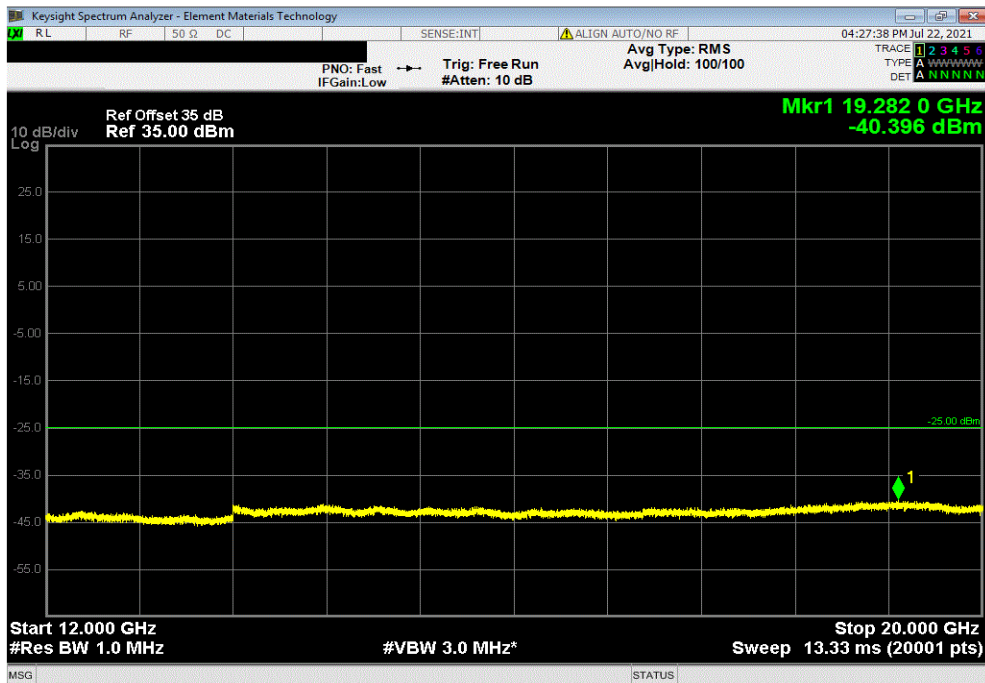


TbTx 2021.03.19.1 XMI 2020.12.30.0

| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |
|--|-------------|-------------|--------|--|
| Frequency  |             |             |        |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |
| 3 GHz - 12 GHz   | -41.06      | -25         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |
|--|-------------|-------------|--------|--|
| Frequency  |             |             |        |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |
| 12 GHz - 20 GHz  | -40.4       | -25         | Pass   |  |

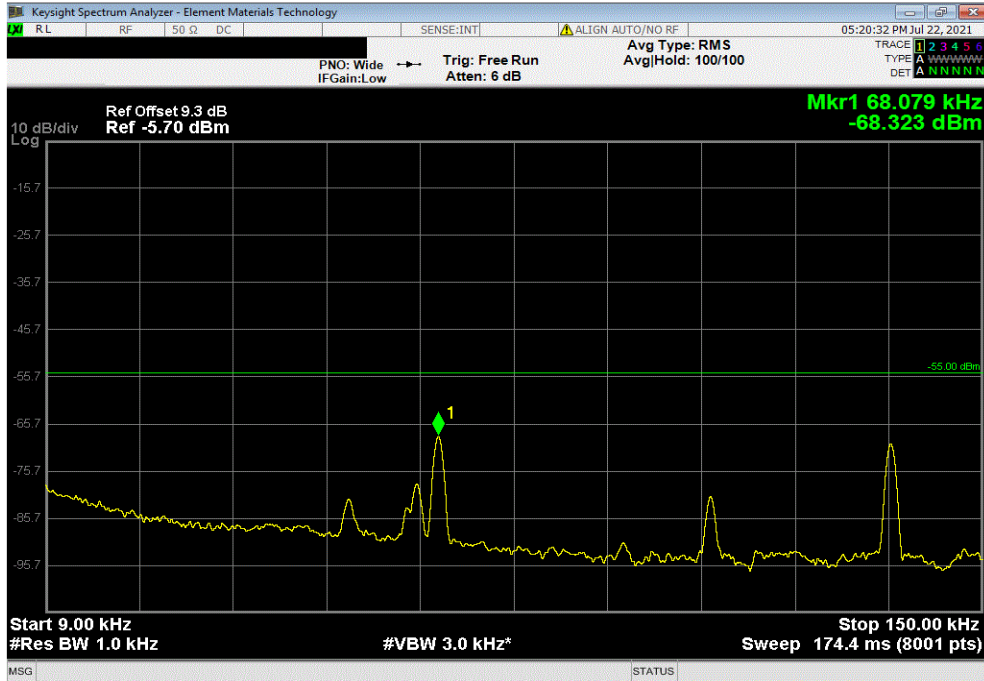


# SPURIOUS CONDUCTED EMISSIONS

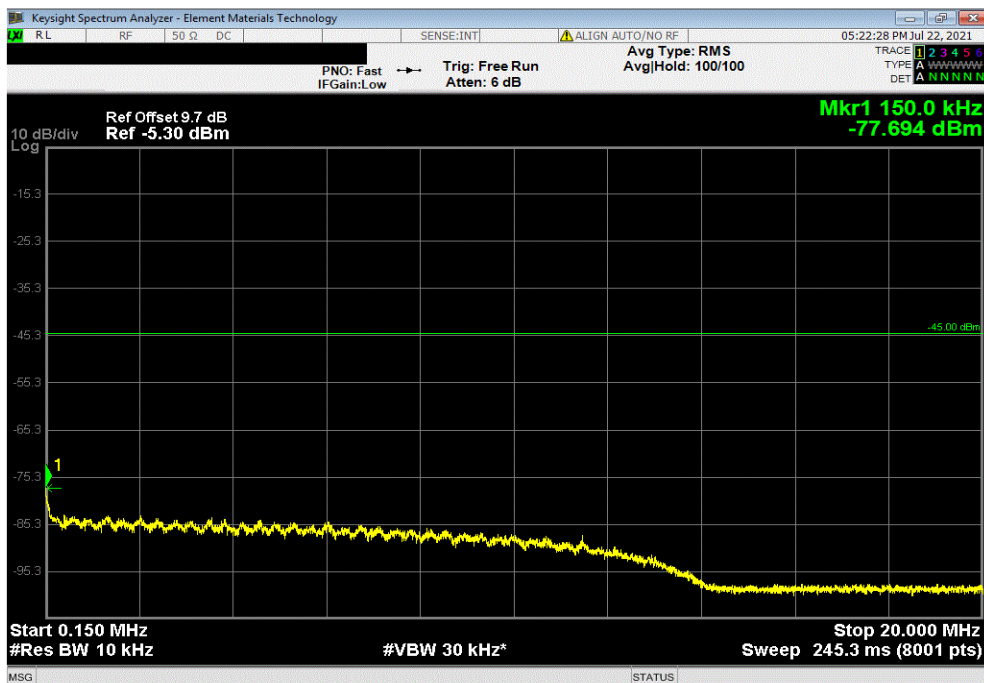


TbTx 2021.03.19.1 XMI 2020.12.30.0

| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 9 kHz - 150 kHz  | -68.32      | -55         | Pass   |  |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 150 kHz - 20 MHz   | -77.69      | -45         | Pass   |  |  |

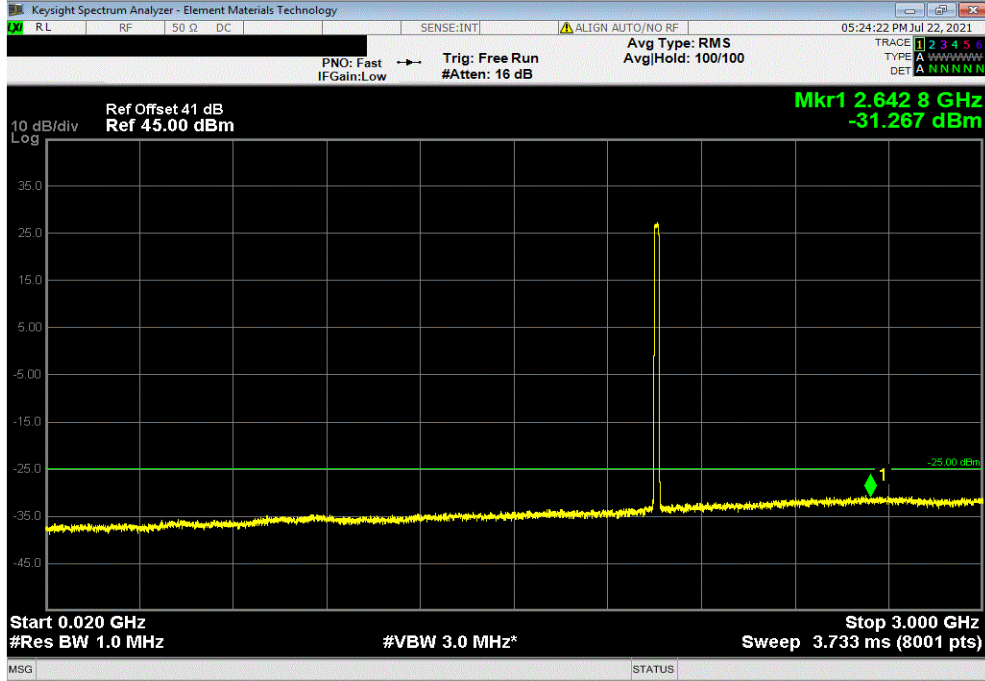


# SPURIOUS CONDUCTED EMISSIONS

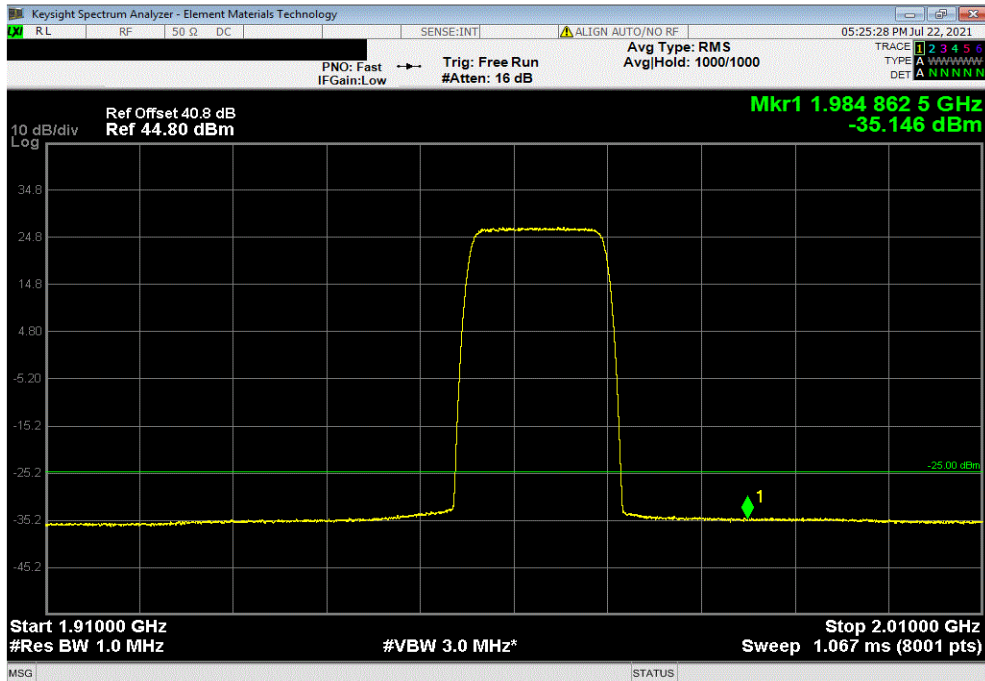


TbTx 2021.03.19.1 XMI 2020.12.30.0

| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 20 MHz - 3 GHz   | -31.27      | -25         | Pass   |  |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 1910 MHz - 2010 MHz  | -35.15      | -25         | Pass   |  |  |

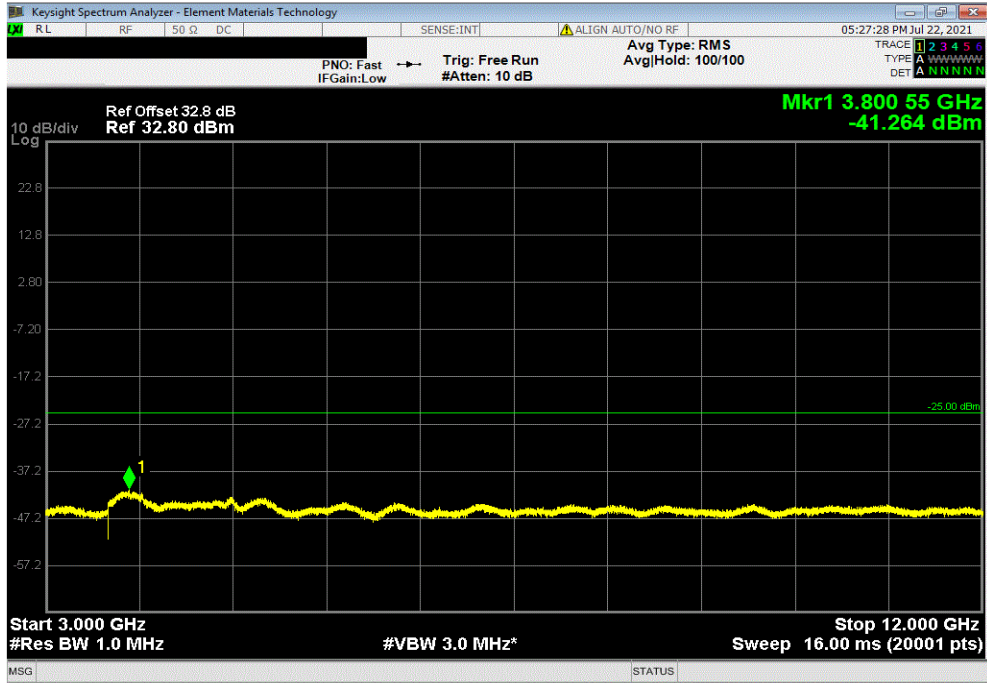


# SPURIOUS CONDUCTED EMISSIONS

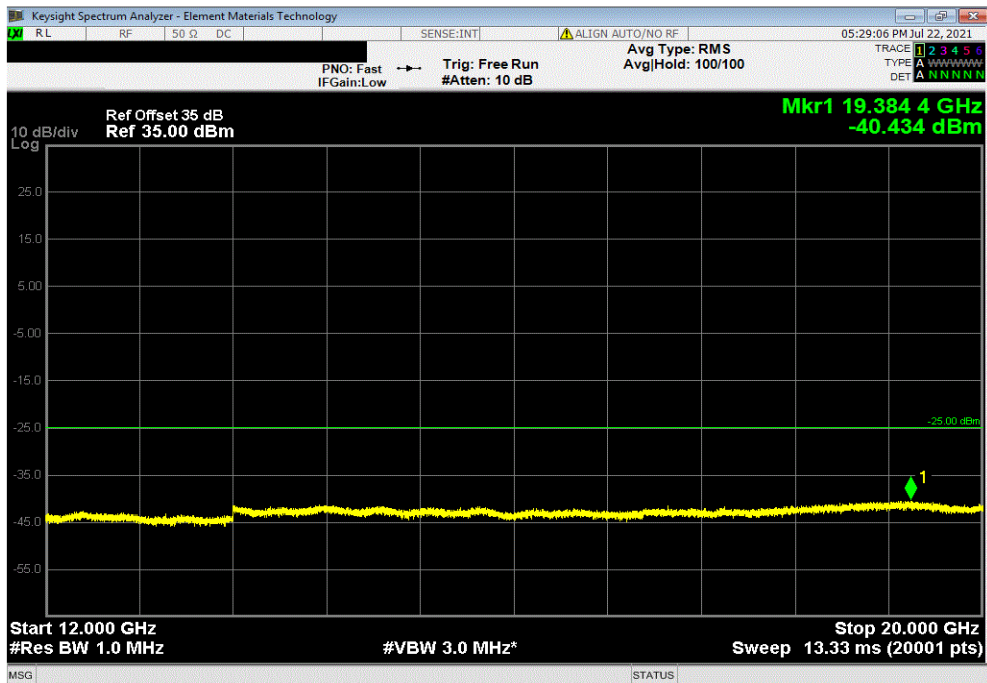


TbTx 2021.03.19.1 XMI 2020.12.30.0

| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 3 GHz - 12 GHz   | -41.26      | -25         | Pass   |  |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |  |
|--|-------------|-------------|--------|--|--|
| Frequency  |             |             |        |  |  |
| Range  | Value (dBm) | Limit (dBm) | Result |  |  |
| 12 GHz - 20 GHz  | -40.43      | -25         | Pass   |  |  |

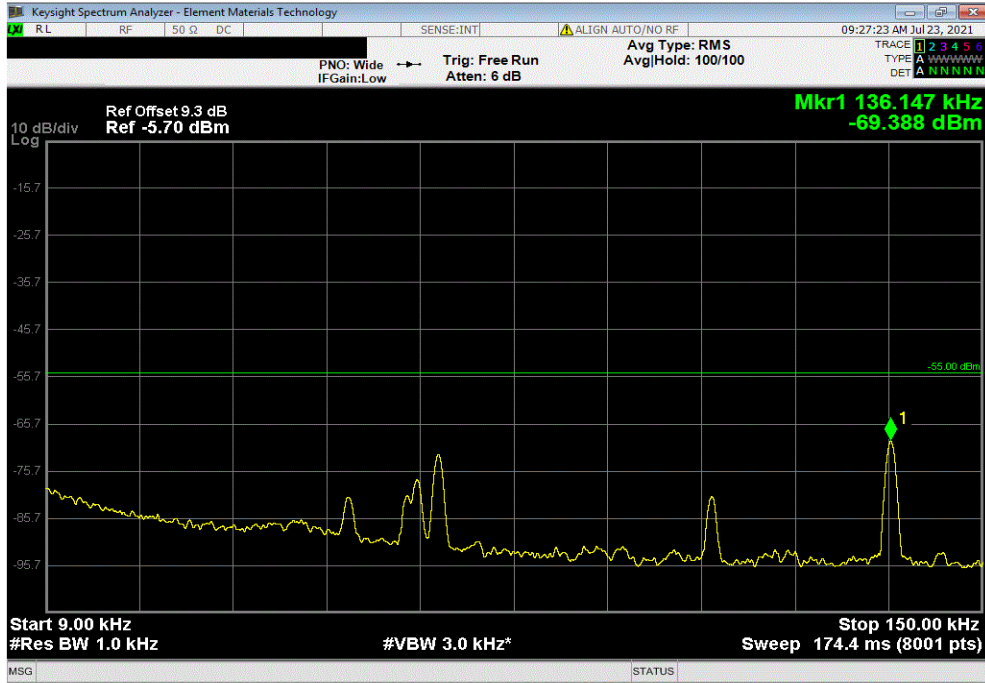


# SPURIOUS CONDUCTED EMISSIONS

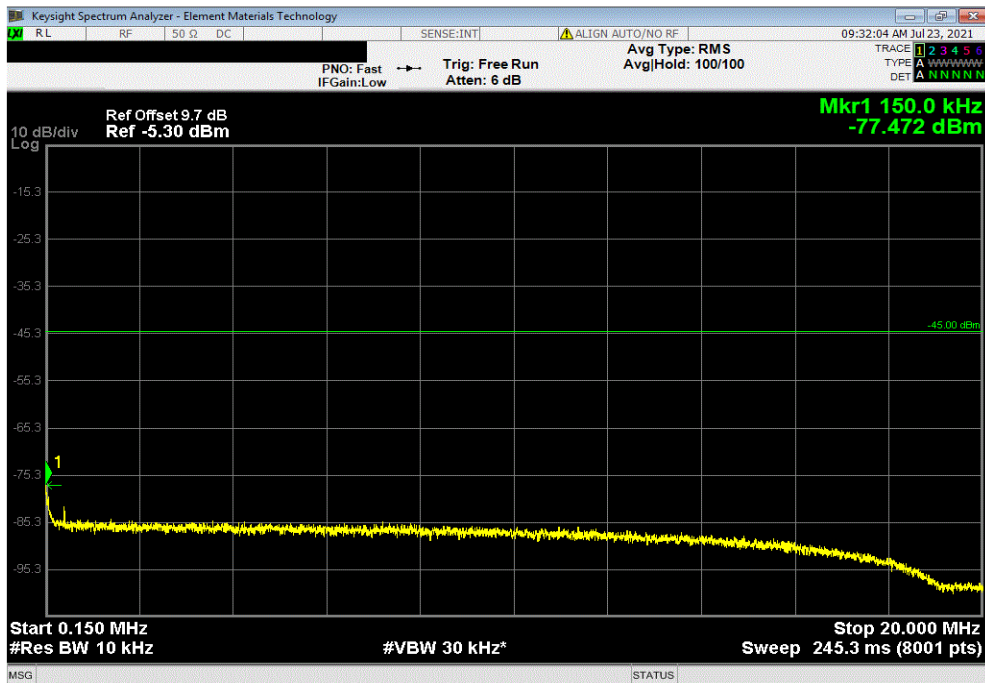


TbTx 2021.03.19.1 XMI 2020.12.30.0

| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |
|--|-------------|-------------|--------|--|
| Frequency Range  | Value (dBm) | Limit (dBm) | Result |  |
| 9 kHz - 150 kHz  | -69.39      | -55         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |             |             |        |  |
|--|-------------|-------------|--------|--|
| Frequency Range  | Value (dBm) | Limit (dBm) | Result |  |
| 150 kHz - 20 MHz   | -77.47      | -45         | Pass   |  |

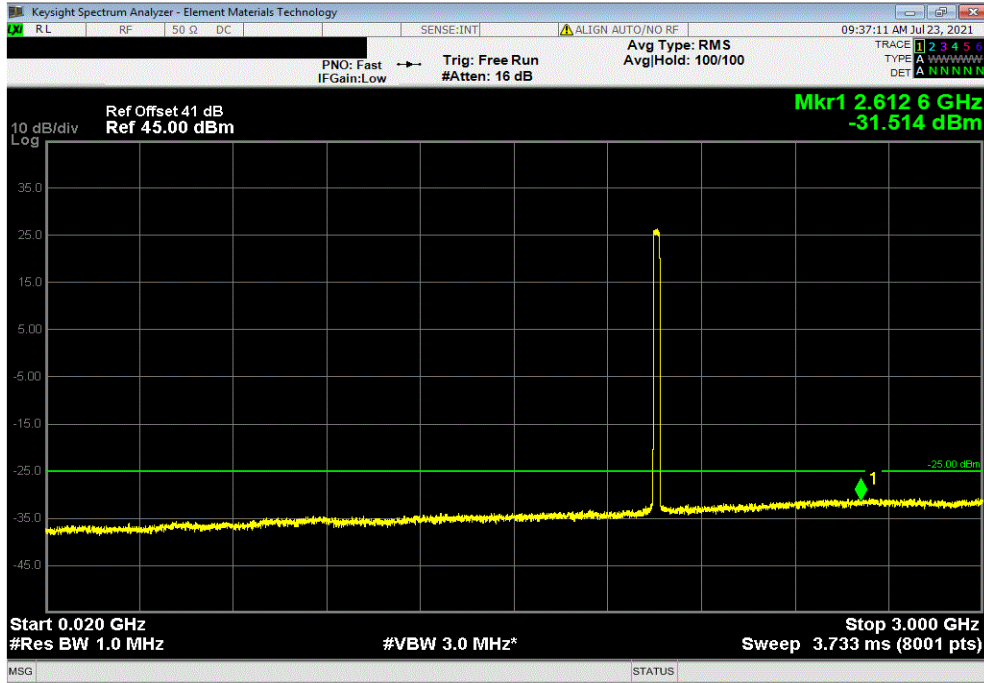


# SPURIOUS CONDUCTED EMISSIONS

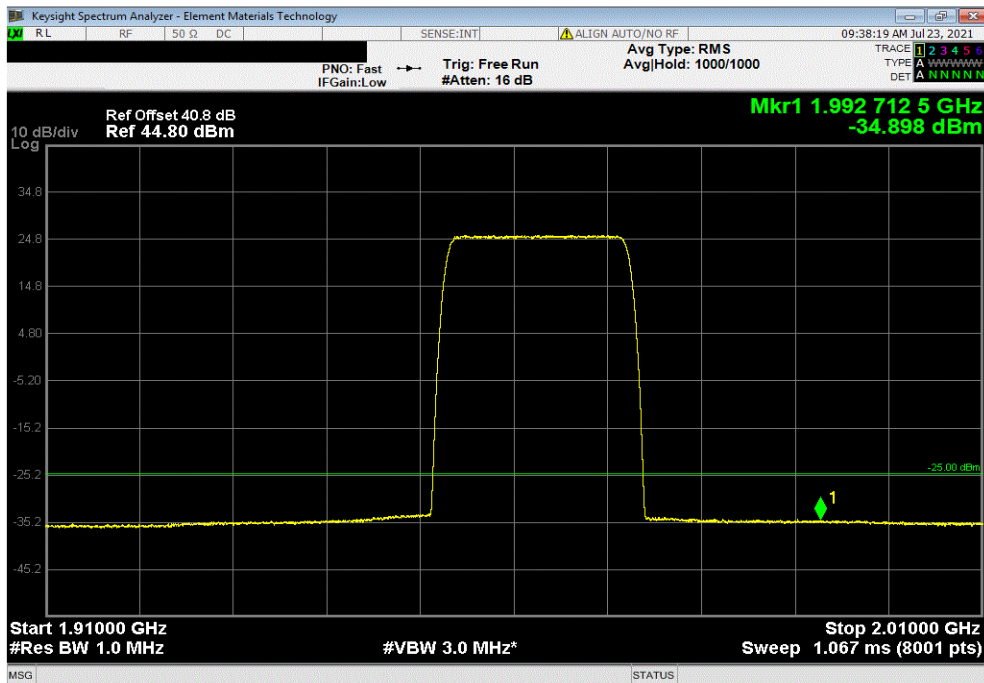


TbTx 2021.03.19.1 XMI 2020.12.30.0

| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 20 MHz - 3 GHz   |  | -31.51      | -25         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 1910 MHz - 2010 MHz  |  | -34.9       | -25         | Pass   |  |

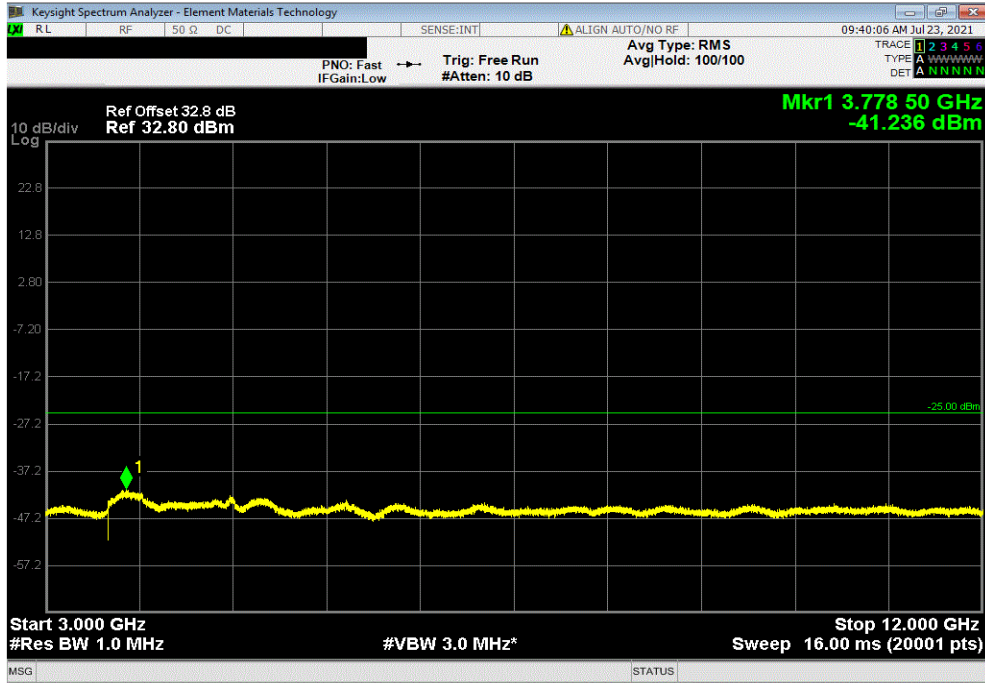


# SPURIOUS CONDUCTED EMISSIONS

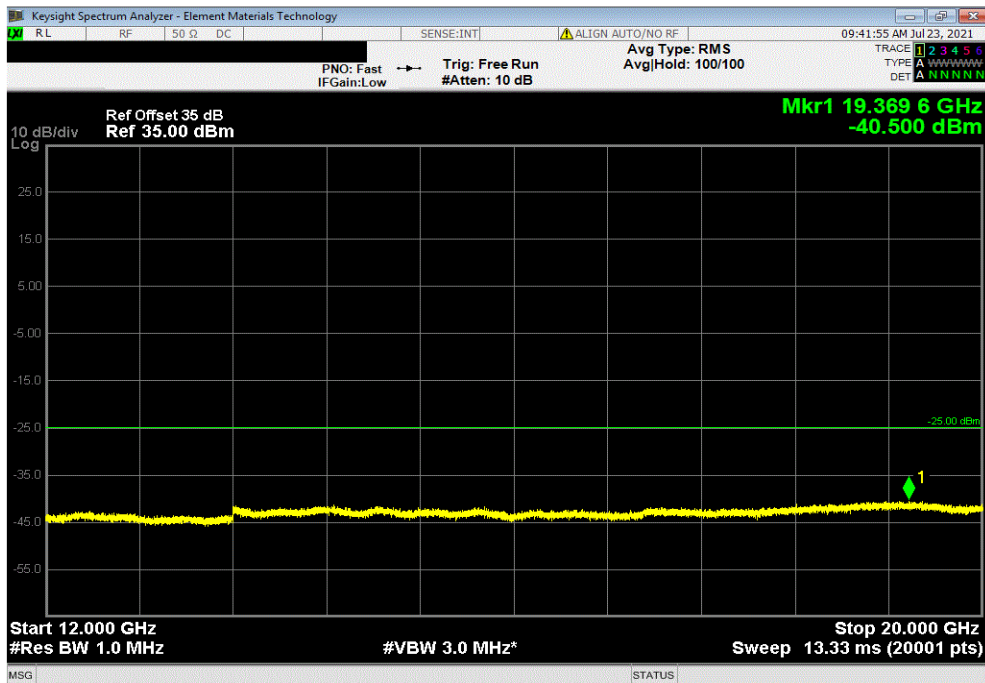


TbTx 2021.03.19.1 XMI 2020.12.30.0

| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 3 GHz - 12 GHz   |  | -41.24      | -25         | Pass   |  |



| Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz |  |             |             |        |  |
|--|--|-------------|-------------|--------|--|
| Frequency Range  |  | Value (dBm) | Limit (dBm) | Result |  |
| 12 GHz - 20 GHz  |  | -40.5       | -25         | Pass   |  |



End of Test Report