

BAND EDGE COMPLIANCE - BAND n25



XMIT 2020.03.25.0

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
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-21
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21

TEST DESCRIPTION

Prior to making the measurements the setup including cables and attenuator was calibrated with a signal generator and a power meter.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

All limits were adjusted by a factor of $[-10 \cdot \log(4)]$ dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911.

Per FCC 24.238(a) the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm $[-13 \text{ dBm} - 10 \log(4)]$ per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 24.238(b) emissions seen up to 1 MHz outside of authorized operating frequency range band edges shall be measured with a RBW of 1% of the measured emission bandwidth. Any emission seen to be > 1 MHz further outside the band edges shall be measured with a RBW of 1 MHz. However, a narrower RBW of at least 1% of the emission bandwidth is still allowed provided that the measured power is integrated over the full reference bandwidth of 1 MHz.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHFIG) as the original certification test. The AHFIG antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the original certification testing) and antenna port 4 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

5G NR carrier bandwidths of 5MHz, 10MHz, 15MHz, and 20MHz with QPSK, 16QAM, 64QAM and 256QAM modulation types were verified under this effort. The 5G NR carriers/modulation types for this testing are set up according to 3GPP TS 38.141-1 Test Models and are NR-FR1-TM 1.1 (QPSK modulation type), NR-FR1-TM 3.1 (16QAM modulation type), NR-FR1-TM 3.1 (64QAM modulation type), and NR-FR1-TM 3.1a (256QAM modulation type).

BAND EDGE COMPLIANCE - BAND n25



TkTx 2020.06.06.0 BETA XMIR 2020.03.25.0

EUT: AHFIG

Serial Number: K9191322351

Customer: Nokia Solutions and Networks

Attendees: Mitchell Hill, John Rattanavong

Project: None

Tested by: Brandon Hobbs

Power: 54 VDC

Job Site: TX05

Work Order: NOKI0016

Date: 19-Jun-20

Temperature: 22 °C

Humidity: 52% RH

Barometric Pres.: 1015 mbar

TEST SPECIFICATIONS

FCC 24E:2020

Test Method

ANSI C63.26:2015

COMMENTS

All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The carrier was set to maximum for all testing.

DEVIATIONS FROM TEST STANDARD

None

Configuration #

2

Signature



Frequency Range

Measured Freq (MHz)

Max Value (dBm)

Limit < (dBm)

Result

Port 4, Band n25, 1930 MHz - 1995 MHz

5 MHz Bandwidth

QPSK Modulation

Low Channel 1932.5 MHz

Low Channel 1932.5 MHz

Low Channel 1932.5 MHz

High Channel 1992.5 MHz

High Channel 1992.5 MHz

High Channel 1992.5 MHz

16-QAM Modulation

Low Channel 1932.5 MHz

Low Channel 1932.5 MHz

Low Channel 1932.5 MHz

High Channel 1992.5 MHz

High Channel 1992.5 MHz

High Channel 1992.5 MHz

64-QAM Modulation

Low Channel 1932.5 MHz

Low Channel 1932.5 MHz

Low Channel 1932.5 MHz

High Channel 1992.5 MHz

High Channel 1992.5 MHz

High Channel 1992.5 MHz

256-QAM Modulation

Low Channel 1932.5 MHz

Low Channel 1932.5 MHz

Low Channel 1932.5 MHz

High Channel 1992.5 MHz

High Channel 1992.5 MHz

High Channel 1992.5 MHz

10 MHz Bandwidth

QPSK Modulation

Low Channel 1935 MHz

Low Channel 1935 MHz

Low Channel 1935 MHz

High Channel 1990 MHz

High Channel 1990 MHz

High Channel 1990 MHz

16-QAM Modulation

Low Channel 1935 MHz

Low Channel 1935 MHz

Low Channel 1935 MHz

High Channel 1990 MHz

High Channel 1990 MHz

High Channel 1990 MHz

64-QAM Modulation

Low Channel 1935 MHz

Low Channel 1935 MHz

Low Channel 1935 MHz

High Channel 1990 MHz

High Channel 1990 MHz

High Channel 1990 MHz

256-QAM Modulation

Low Channel 1935 MHz

Low Channel 1935 MHz

Low Channel 1935 MHz

High Channel 1990 MHz

High Channel 1990 MHz

High Channel 1990 MHz

15 MHz Bandwidth

QPSK Modulation

Low Channel 1937.5 MHz

Low Channel 1937.5 MHz

Low Channel 1937.5 MHz

High Channel 1987.5 MHz

High Channel 1987.5 MHz

High Channel 1987.5 MHz

16-QAM Modulation

Low Channel 1937.5 MHz

Low Channel 1937.5 MHz

Low Channel 1937.5 MHz

High Channel 1987.5 MHz

High Channel 1987.5 MHz

High Channel 1987.5 MHz

64-QAM Modulation

Low Channel 1937.5 MHz

1930.0

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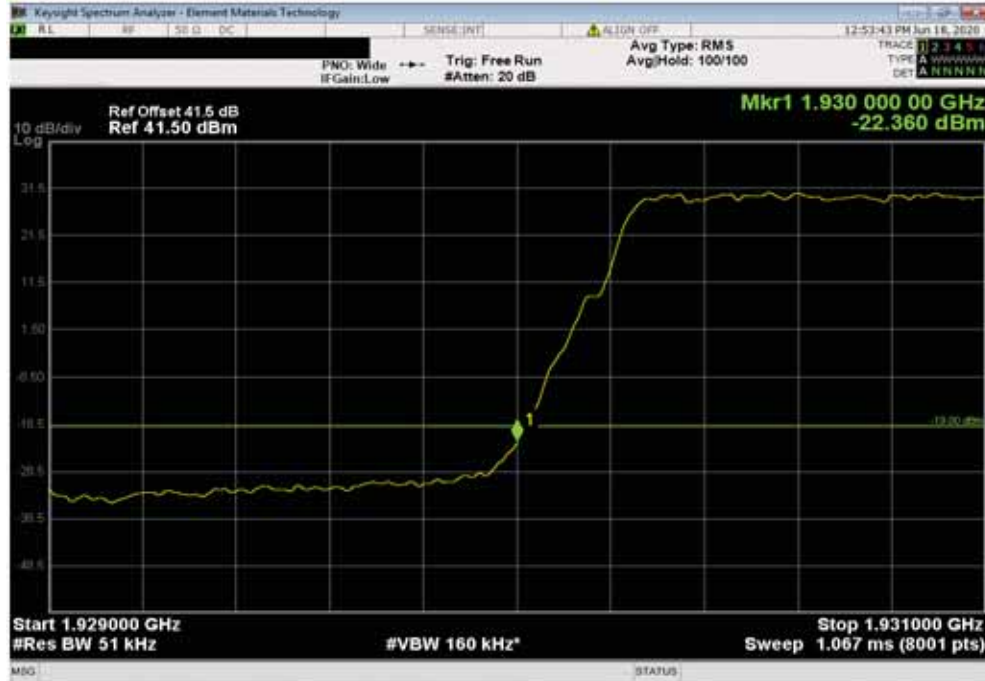
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Low Channel 1937.5 MHz	3	1927.8	-22.57	-19	Pass
High Channel 1987.5 MHz	1	1995.0	-21.43	-19	Pass
High Channel 1987.5 MHz	2	1996.5	-21.61	-19	Pass
High Channel 1987.5 MHz	3	1997.8	-20.91	-19	Pass
256-QAM Modulation					
Low Channel 1937.5 MHz	1	1930.0	-23.22	-19	Pass
Low Channel 1937.5 MHz	2	1928.5	-23.90	-19	Pass
Low Channel 1937.5 MHz	3	1927.4	-22.17	-19	Pass
High Channel 1987.5 MHz	1	1995.0	-23.07	-19	Pass
High Channel 1987.5 MHz	2	1996.5	-21.43	-19	Pass
High Channel 1987.5 MHz	3	1997.4	-20.25	-19	Pass
20 MHz Bandwidth					
QPSK Modulation					
Low Channel 1940 MHz	1	1930.0	-20.37	-19	Pass
Low Channel 1940 MHz	2	1928.5	-22.48	-19	Pass
Low Channel 1940 MHz	3	1927.8	-21.36	-19	Pass
High Channel 1985 MHz	1	1995.1	-24.43	-19	Pass
High Channel 1985 MHz	2	1996.5	-19.75	-19	Pass
High Channel 1985 MHz	3	1997.0	-19.53	-19	Pass
16-QAM Modulation					
Low Channel 1940 MHz	1	1930.0	-19.96	-19	Pass
Low Channel 1940 MHz	2	1928.5	-22.53	-19	Pass
Low Channel 1940 MHz	3	1927.9	-21.55	-19	Pass
High Channel 1985 MHz	1	1995.0	-19.77	-19	Pass
High Channel 1985 MHz	2	1996.5	-20.09	-19	Pass
High Channel 1985 MHz	3	1997.1	-19.87	-19	Pass
64-QAM Modulation					
Low Channel 1940 MHz	1	1929.9	-26.60	-19	Pass
Low Channel 1940 MHz	2	1928.5	-22.96	-19	Pass
Low Channel 1940 MHz	3	1927.0	-21.79	-19	Pass
High Channel 1985 MHz	1	1995.0	-19.90	-19	Pass
High Channel 1985 MHz	2	1996.5	-19.40	-19	Pass
High Channel 1985 MHz	3	1997.0	-19.73	-19	Pass
256-QAM Modulation					
Low Channel 1940 MHz	1	1930.0	-19.37	-19	Pass
Low Channel 1940 MHz	2	1928.5	-22.66	-19	Pass
Low Channel 1940 MHz	3	1927.9	-19.88	-19	Pass
High Channel 1985 MHz	1	1995.1	-25.08	-19	Pass
High Channel 1985 MHz	2	1996.5	-20.05	-19	Pass
High Channel 1985 MHz	3	1997.5	-19.53	-19	Pass

BAND EDGE COMPLIANCE - BAND n25

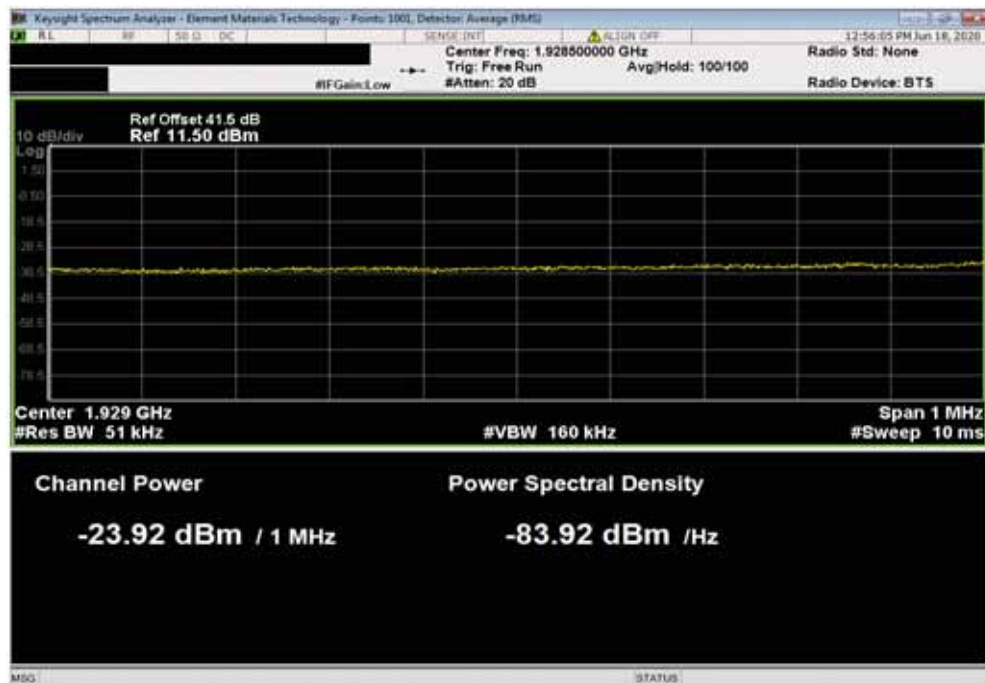


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel 1932.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-22.36	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel 1932.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-23.92	-19	Pass		



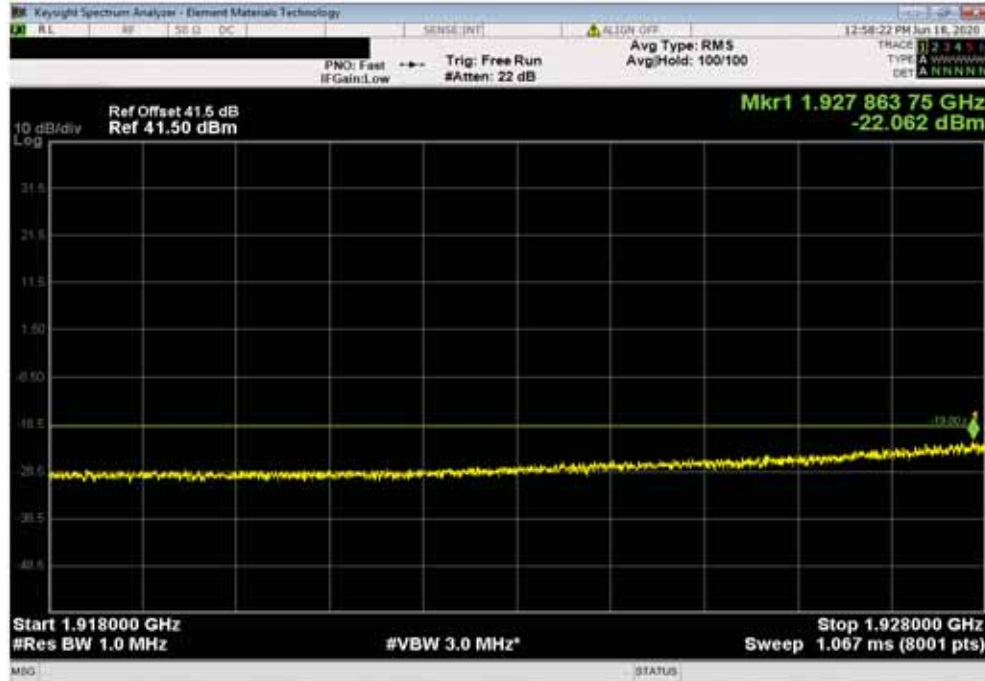
BAND EDGE COMPLIANCE - BAND n25



TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel 1932.5 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3	1927.9	-22.06	-19	Pass



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel 1992.5 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
1	1995.0	-22.51	-19	Pass



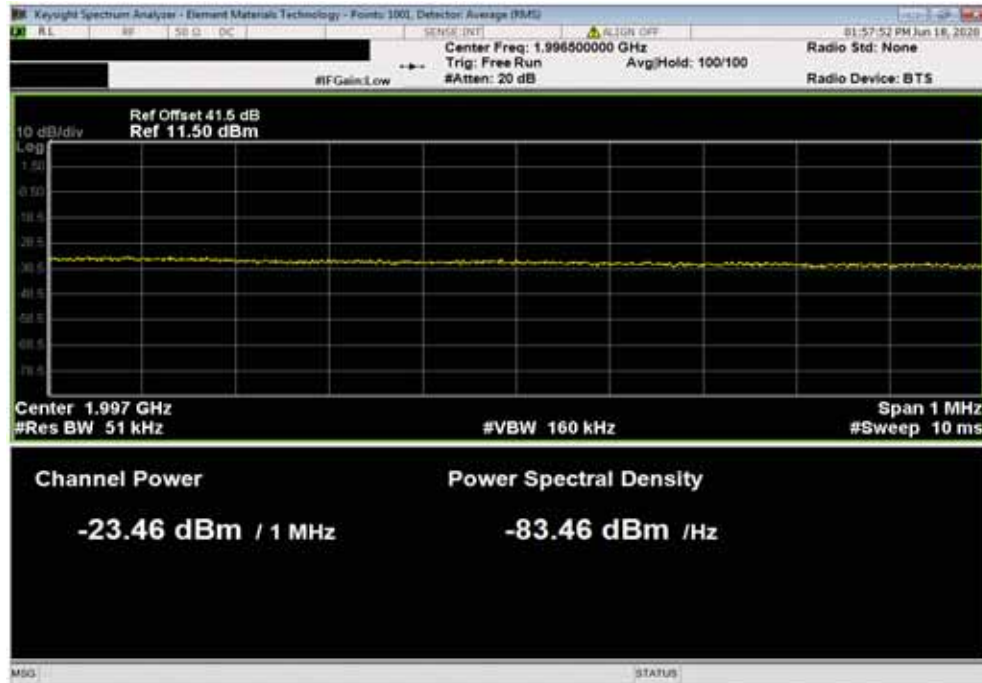
BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

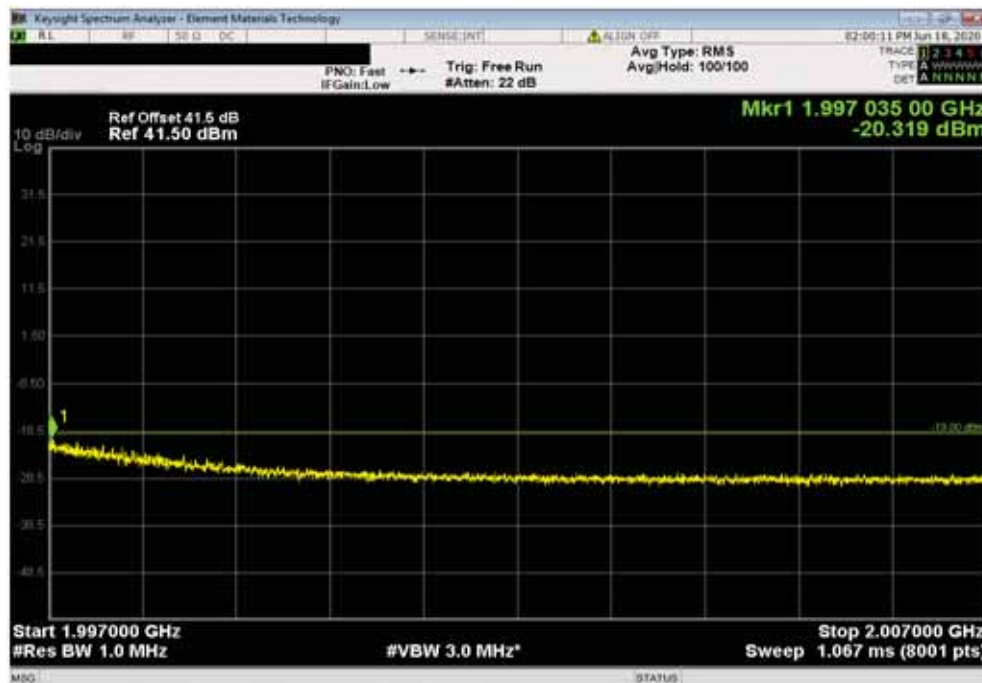
Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel 1992.5 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
2	1996.5	-23.46	-19	Pass



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel 1992.5 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3	1997.0	-20.32	-19	Pass

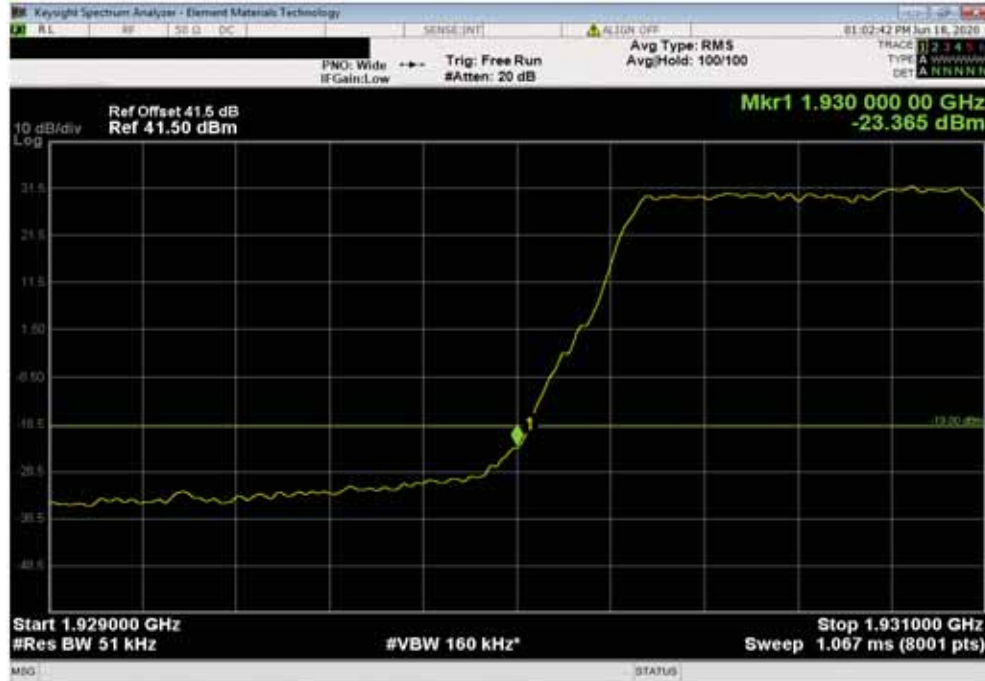


BAND EDGE COMPLIANCE - BAND n25

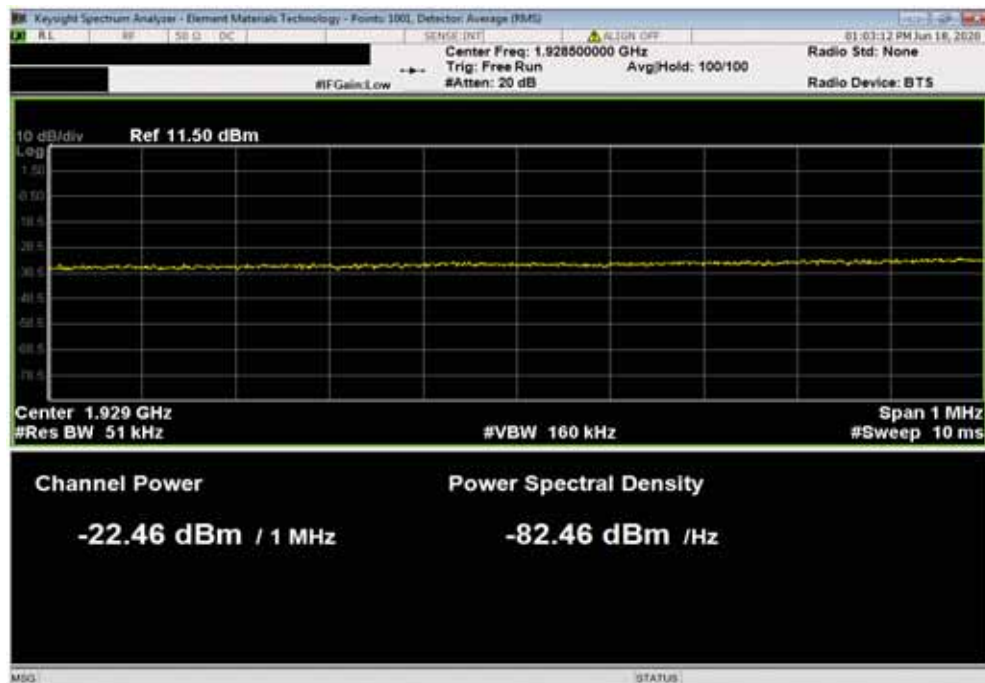


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel 1932.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-23.37	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel 1932.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-22.46	-19	Pass		

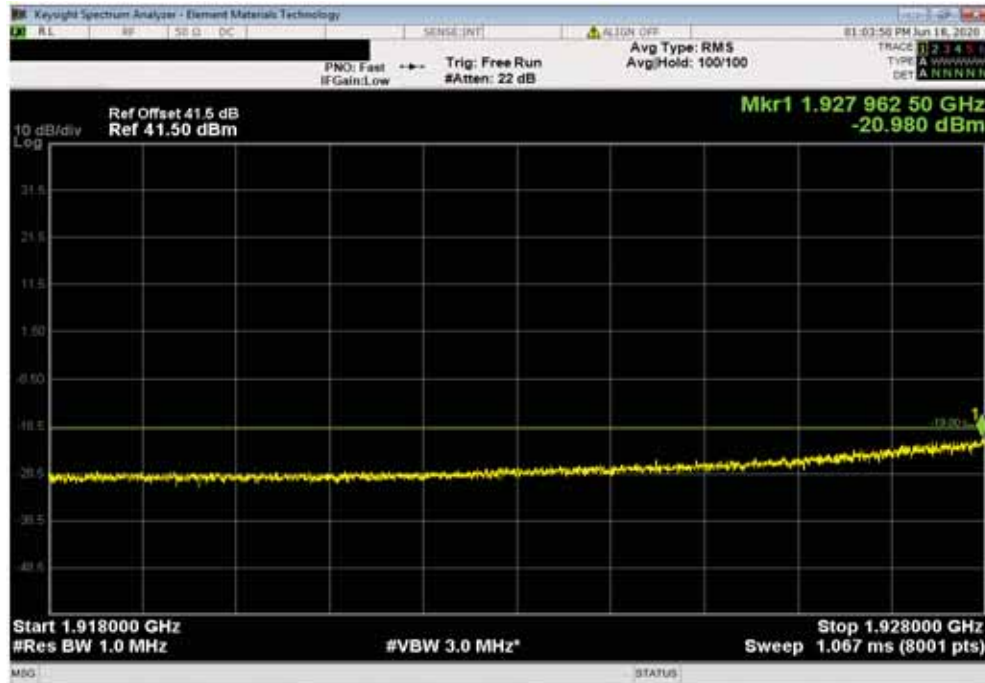


BAND EDGE COMPLIANCE - BAND n25



TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel 1932.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1928.0	-20.98	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel 1992.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.0	-21.31	-19	Pass		

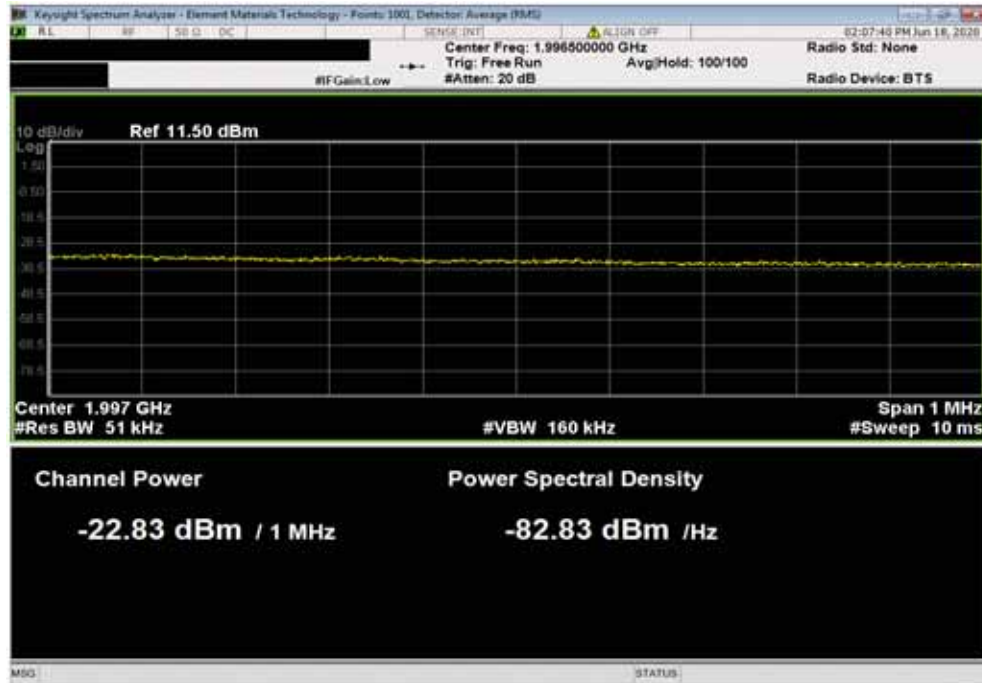


BAND EDGE COMPLIANCE - BAND n25

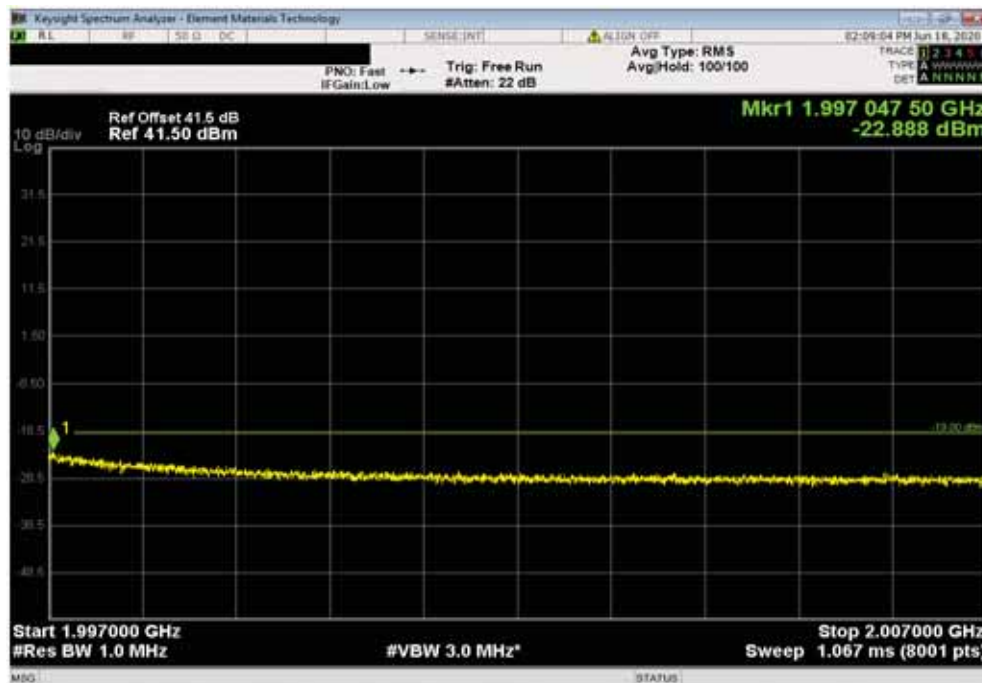


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel 1992.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-22.83	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel 1992.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.1	-22.89	-19	Pass		

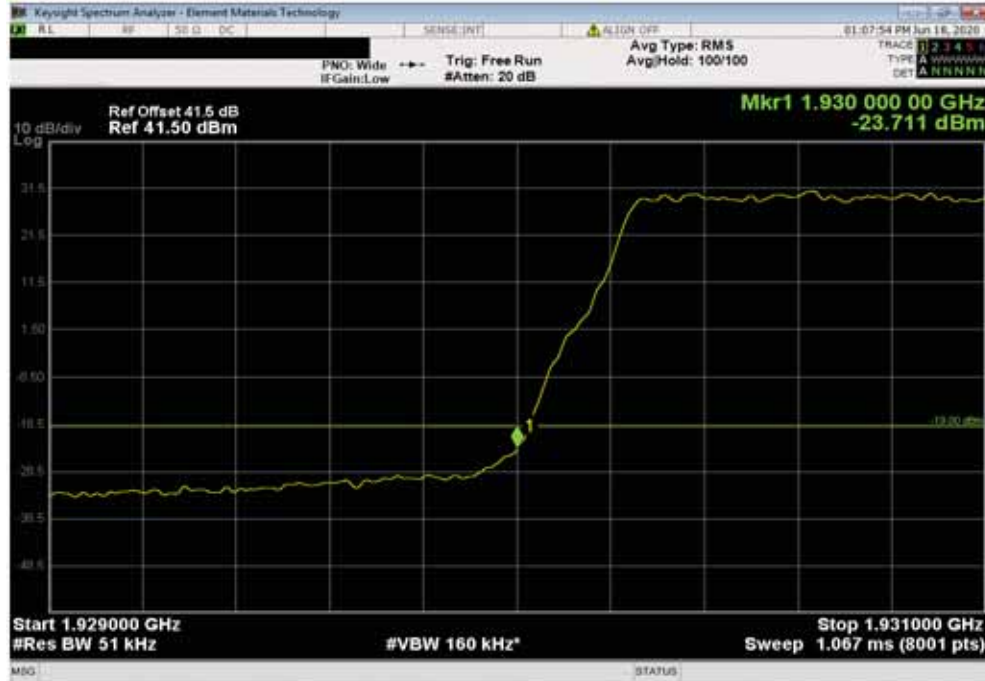


BAND EDGE COMPLIANCE - BAND n25

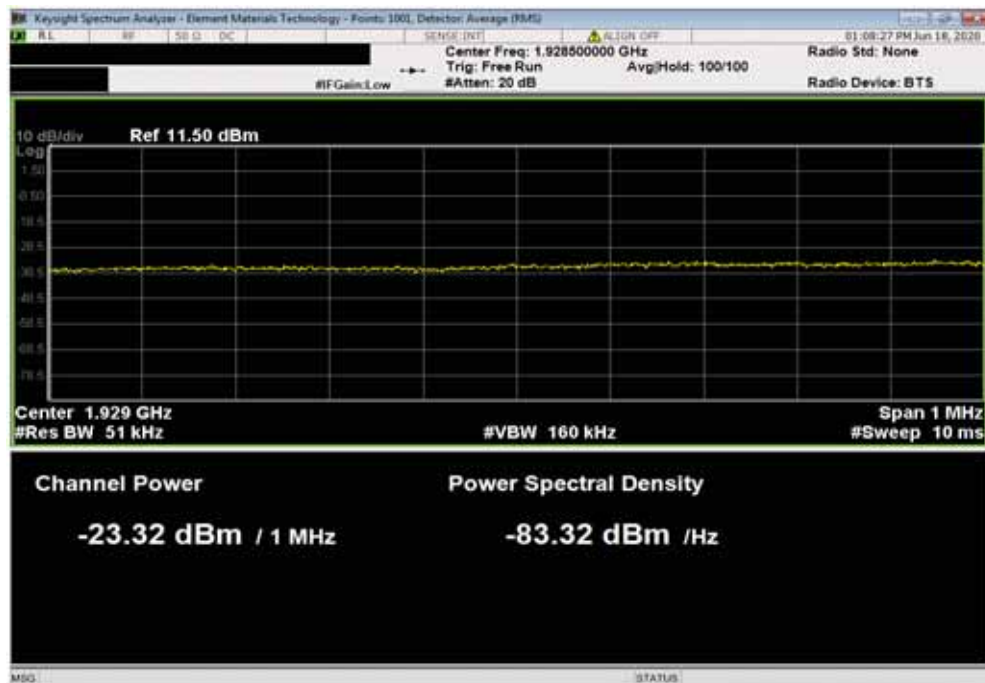


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel 1932.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-23.71	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel 1932.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-23.32	-19	Pass		

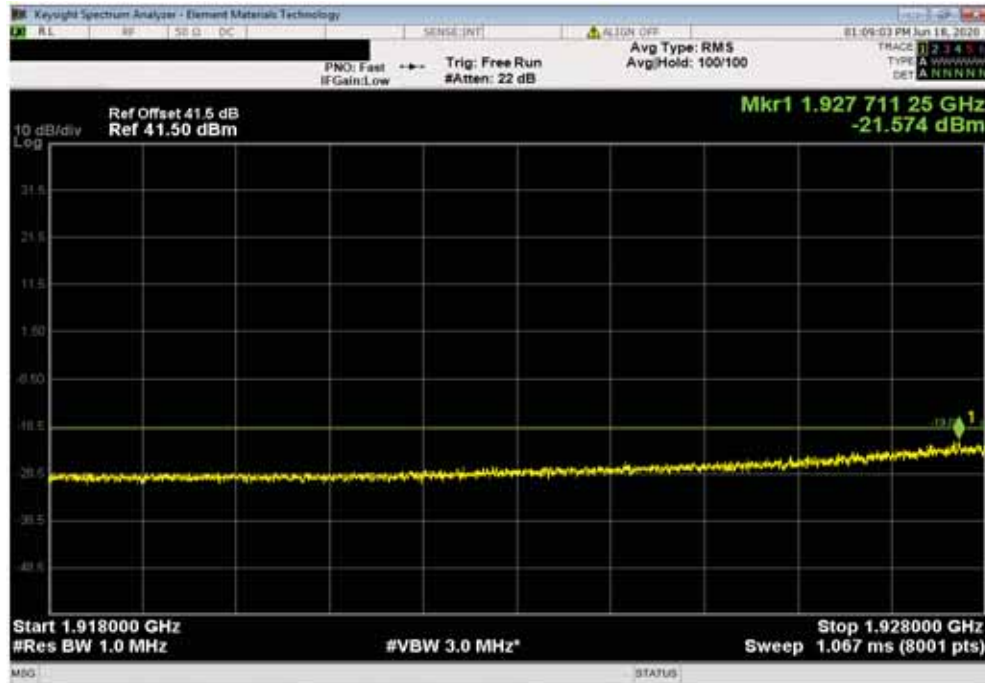


BAND EDGE COMPLIANCE - BAND n25



TbTx 2020.06.08.0 BETA XMit 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel 1932.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1927.7	-21.57	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel 1992.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.0	-22.98	-19	Pass		

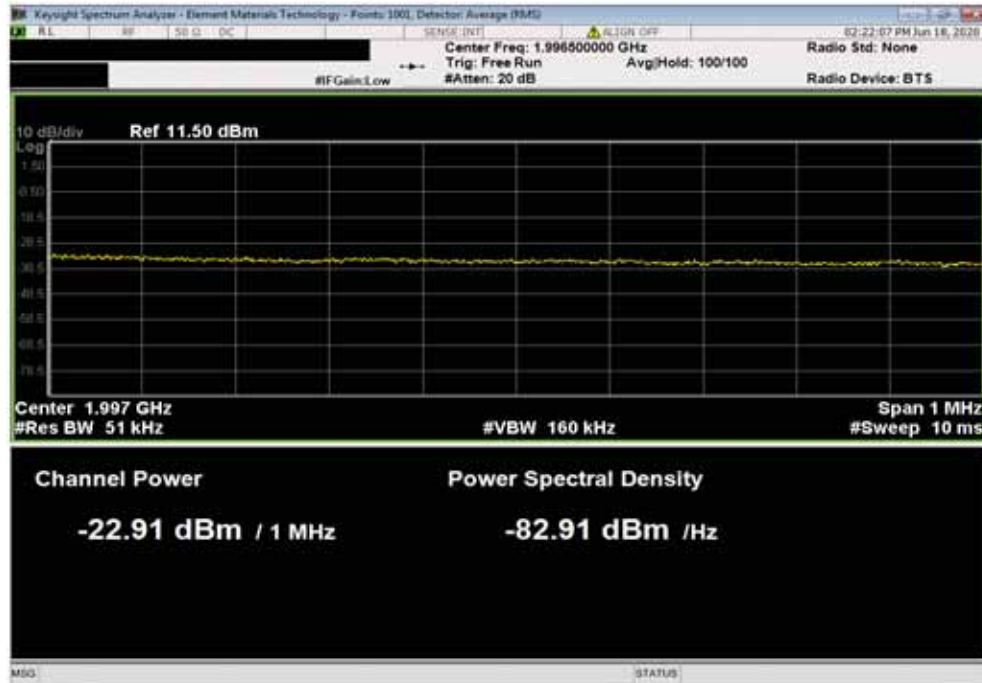


BAND EDGE COMPLIANCE - BAND n25

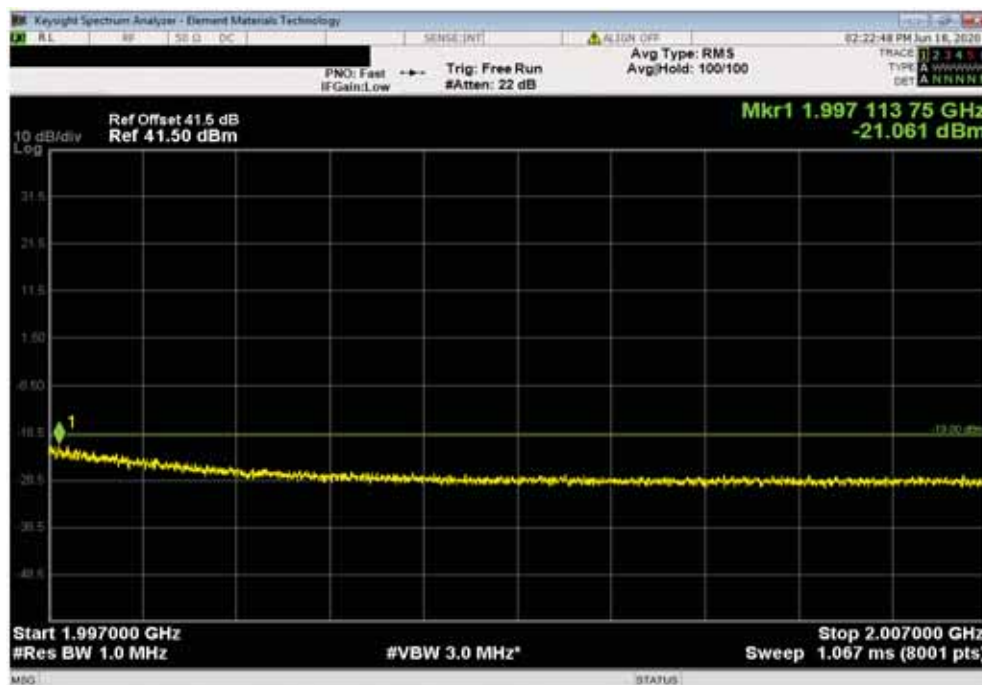


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel 1992.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-22.91	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel 1992.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.1	-21.06	-19	Pass		

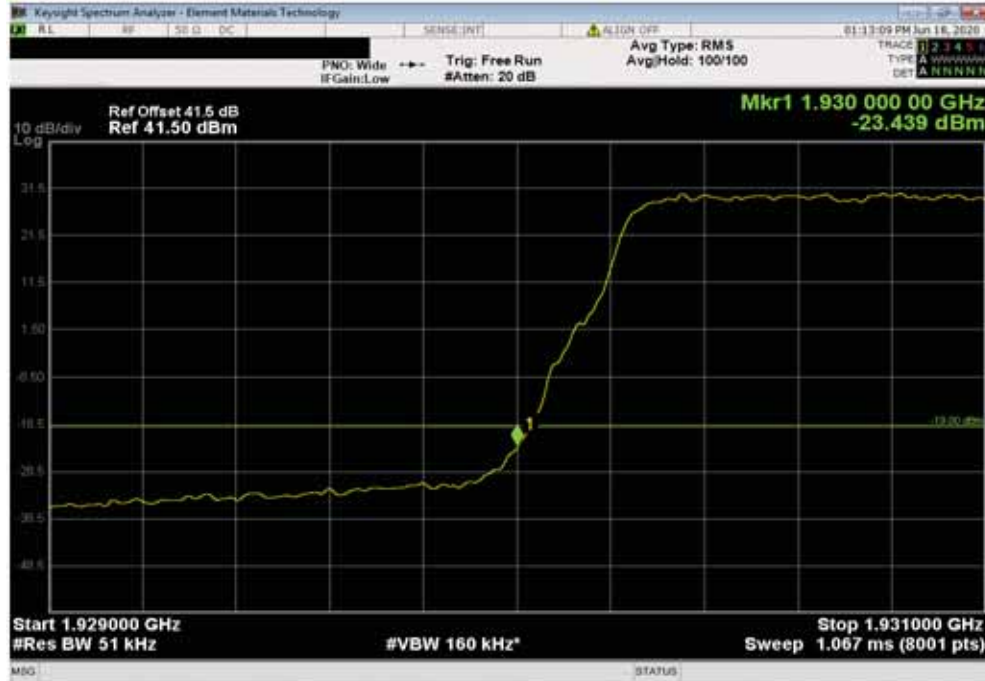


BAND EDGE COMPLIANCE - BAND n25

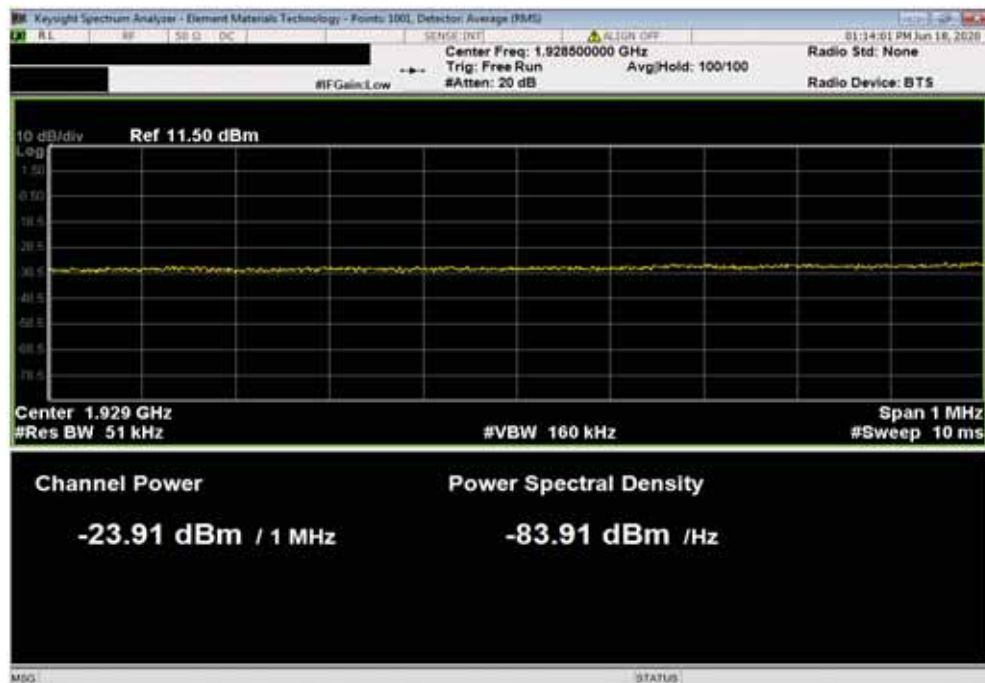


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel 1932.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-23.44	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel 1932.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-23.91	-19	Pass		

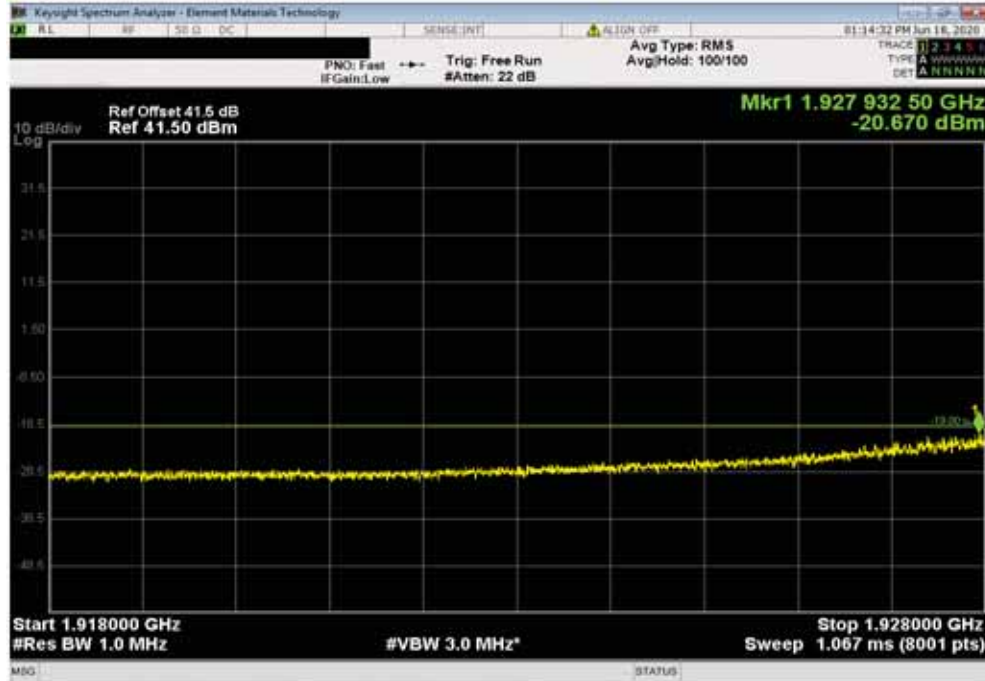


BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel 1932.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1927.9	-20.67	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Channel 1992.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.0	-20.67	-19	Pass		

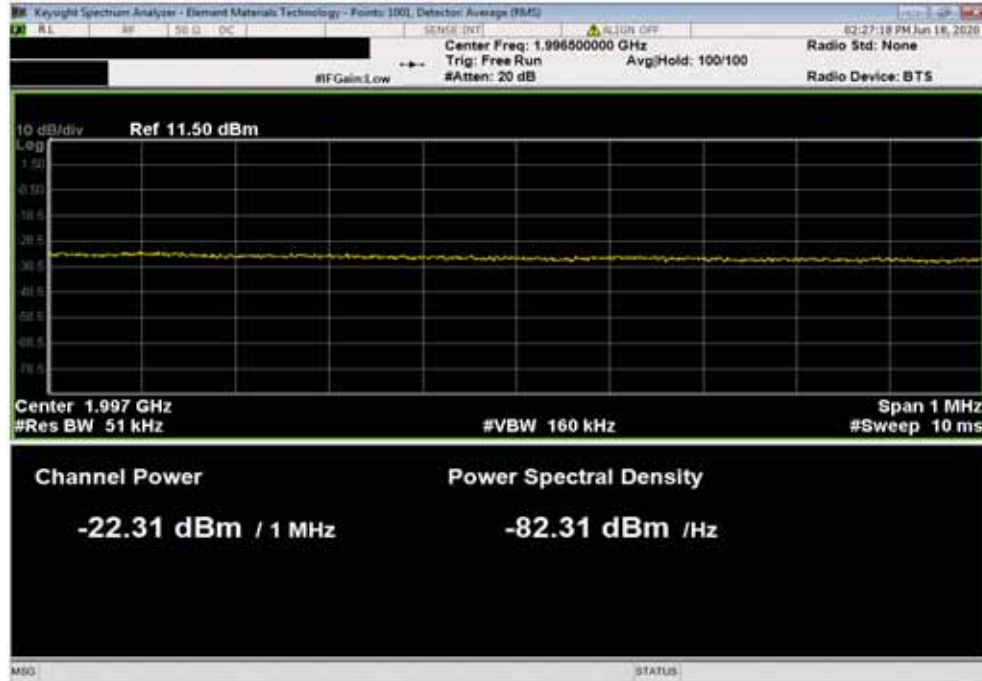


BAND EDGE COMPLIANCE - BAND n25

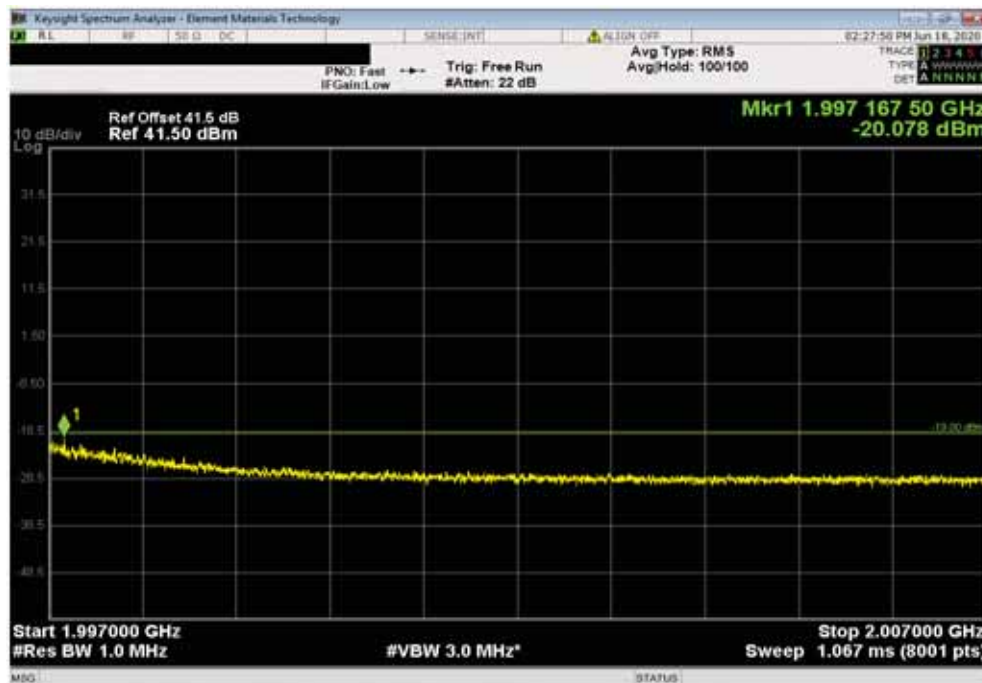


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Channel 1992.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-22.31	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Channel 1992.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.2	-20.08	-19	Pass		

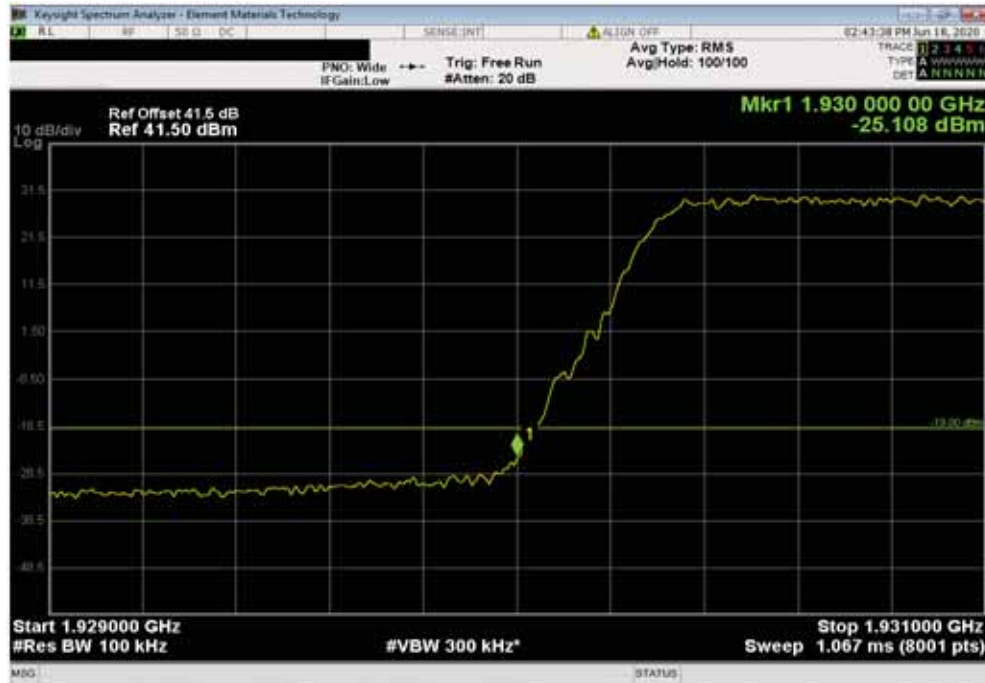


BAND EDGE COMPLIANCE - BAND n25

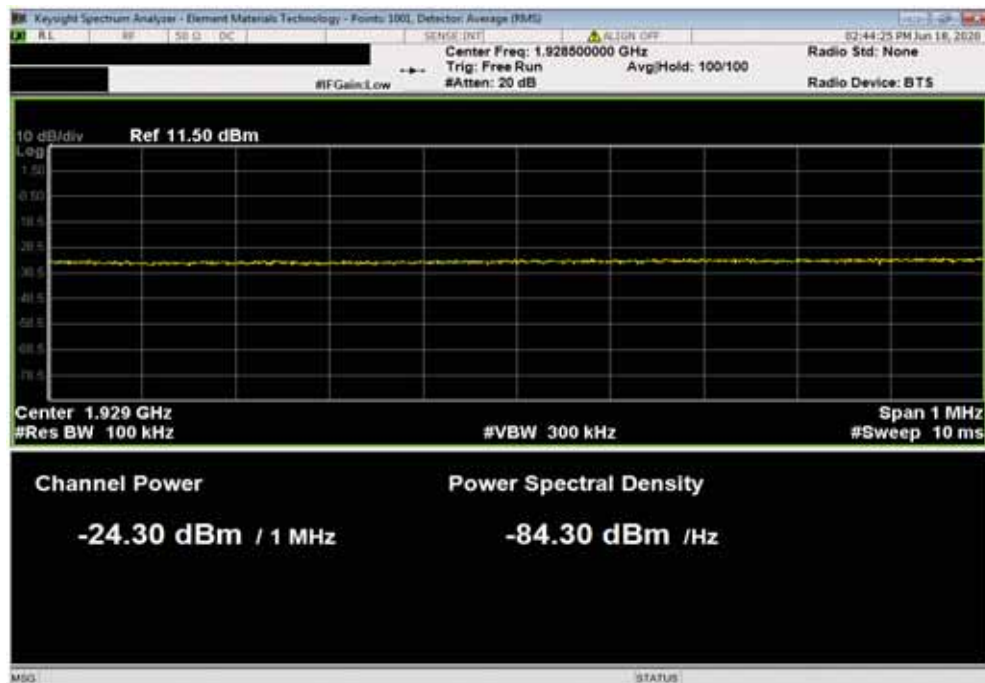


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel 1935 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-25.11	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel 1935 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-24.30	-19	Pass		



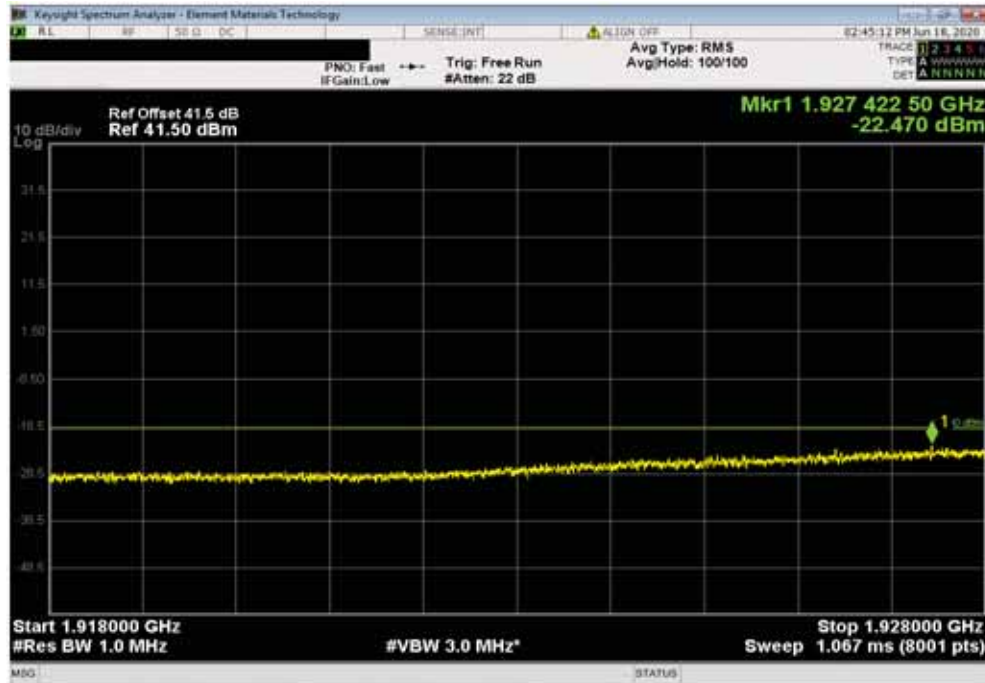
BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel 1935 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3	1927.4	-22.47	-19	Pass



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel 1990 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
1	1995.0	-24.31	-19	Pass



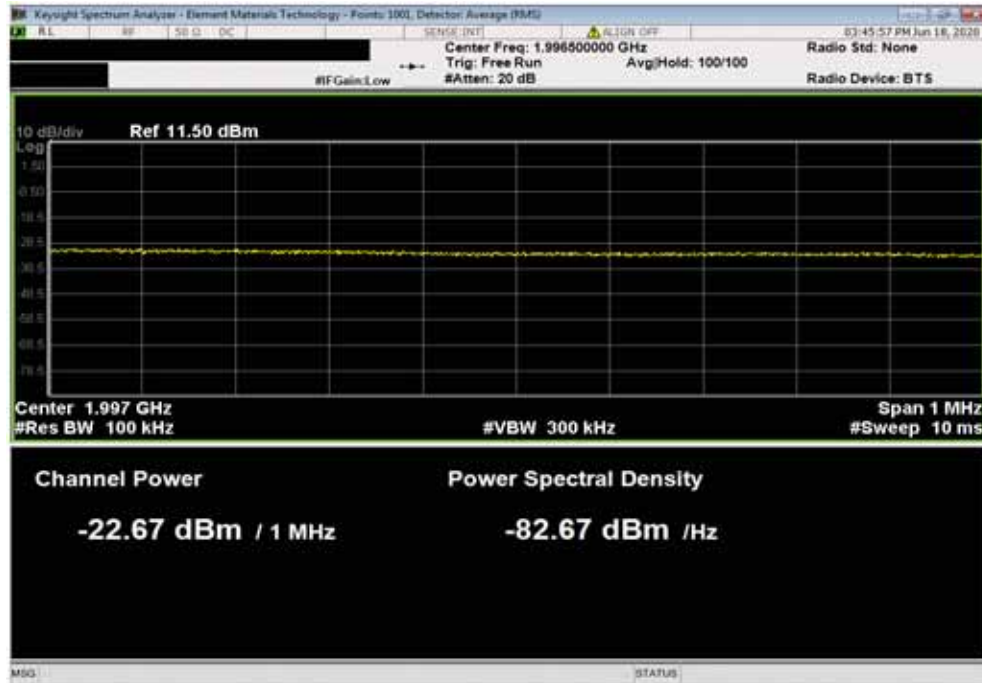
BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMII 2020.03.25.0

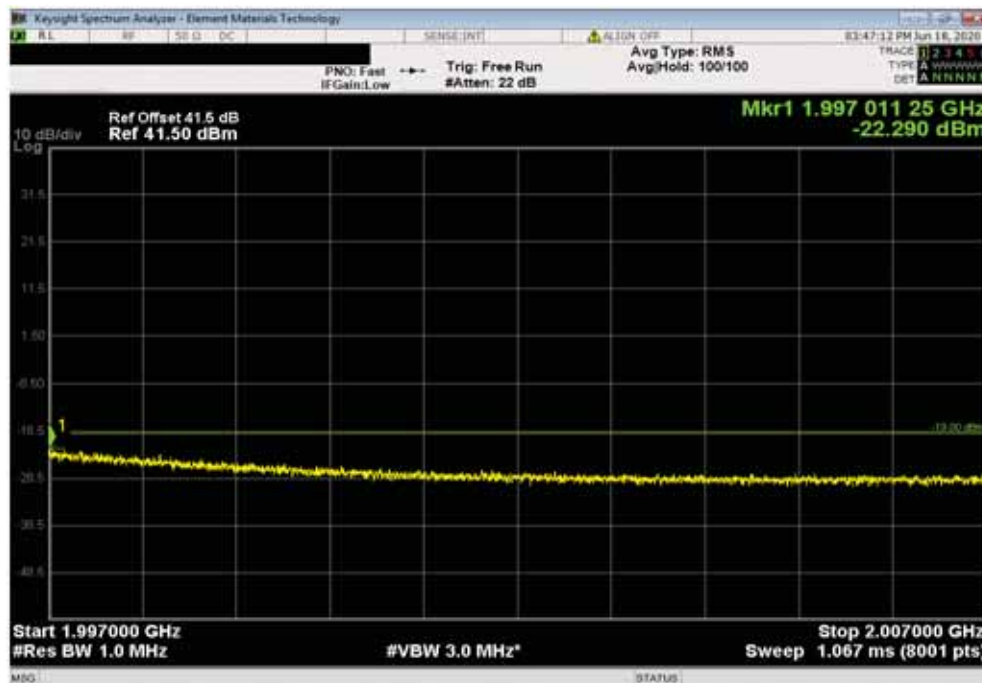
Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel 1990 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
2	1996.5	-22.67	-19	Pass



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel 1990 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3	1997.0	-22.29	-19	Pass

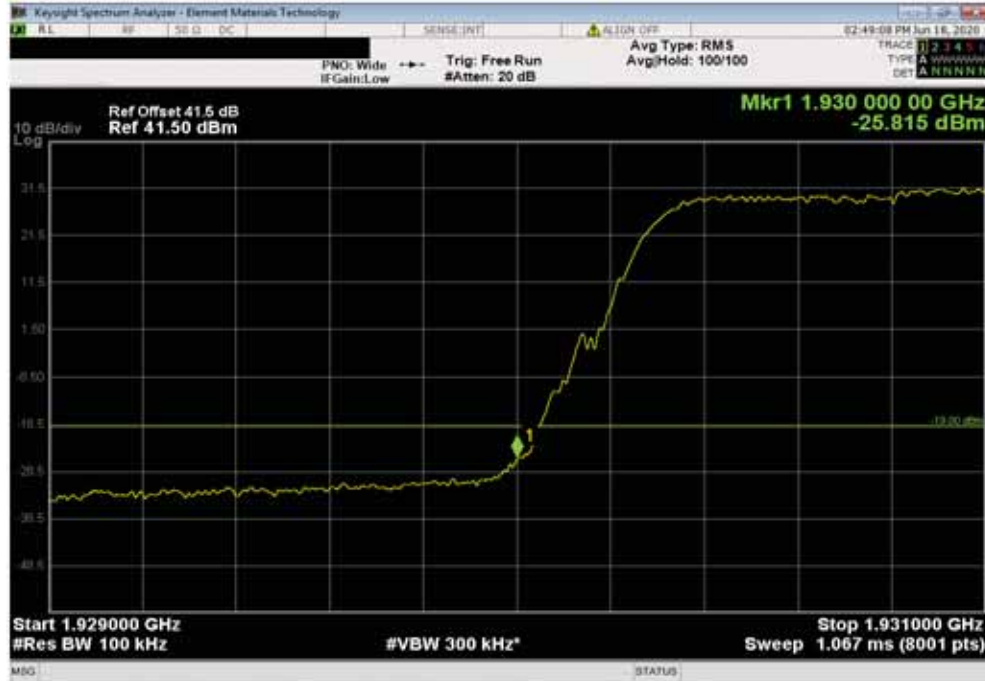


BAND EDGE COMPLIANCE - BAND n25

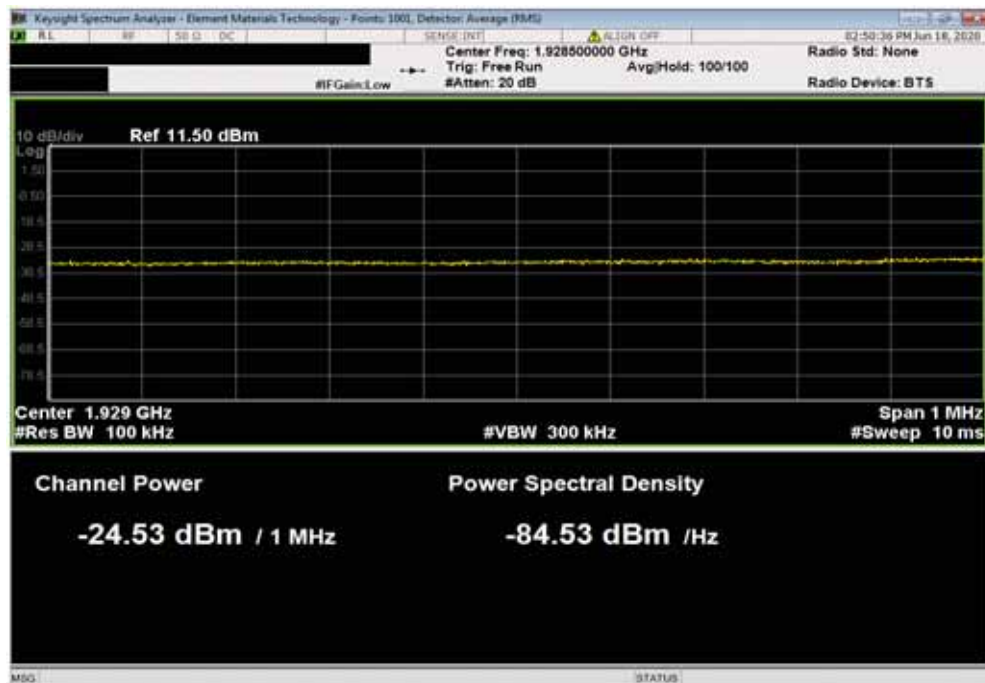


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel 1935 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-25.82	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel 1935 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-24.53	-19	Pass		

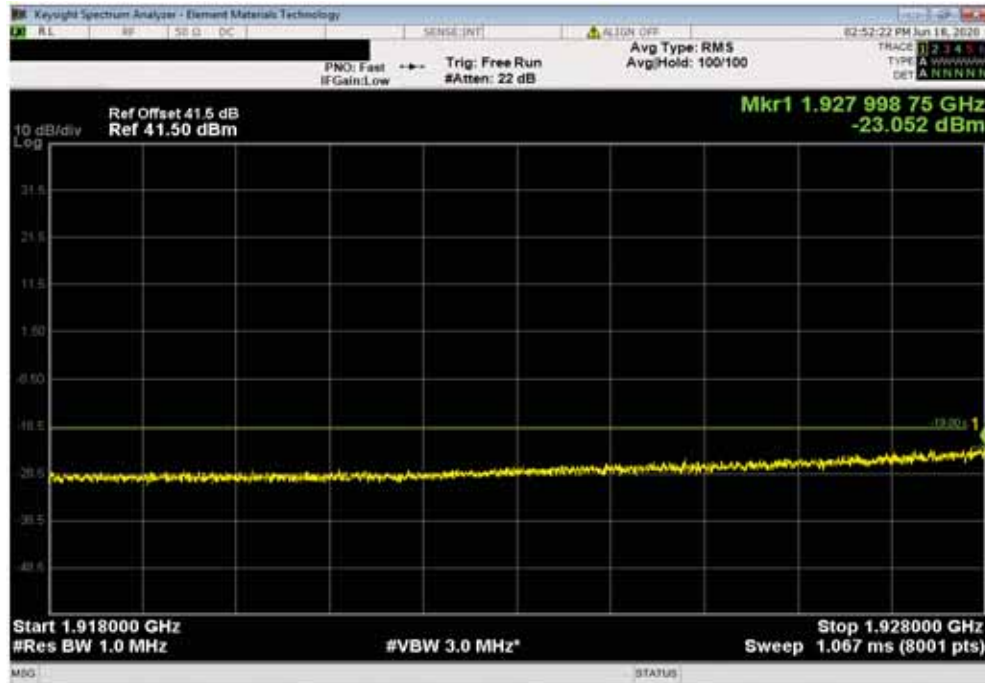


BAND EDGE COMPLIANCE - BAND n25

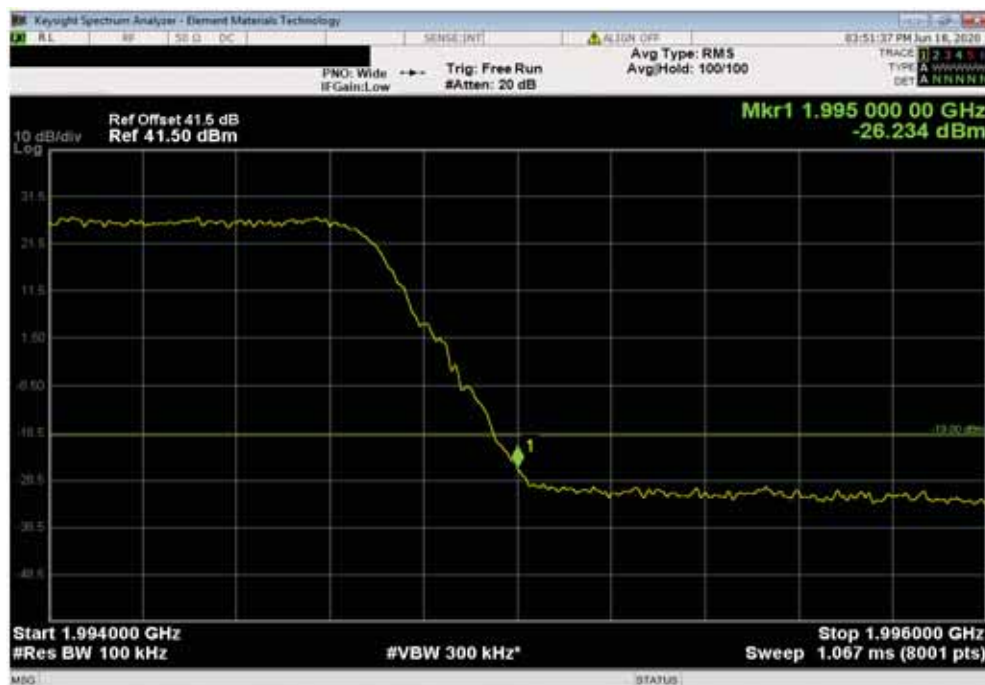


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel 1935 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1928.0	-23.05	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel 1990 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.0	-26.23	-19	Pass		

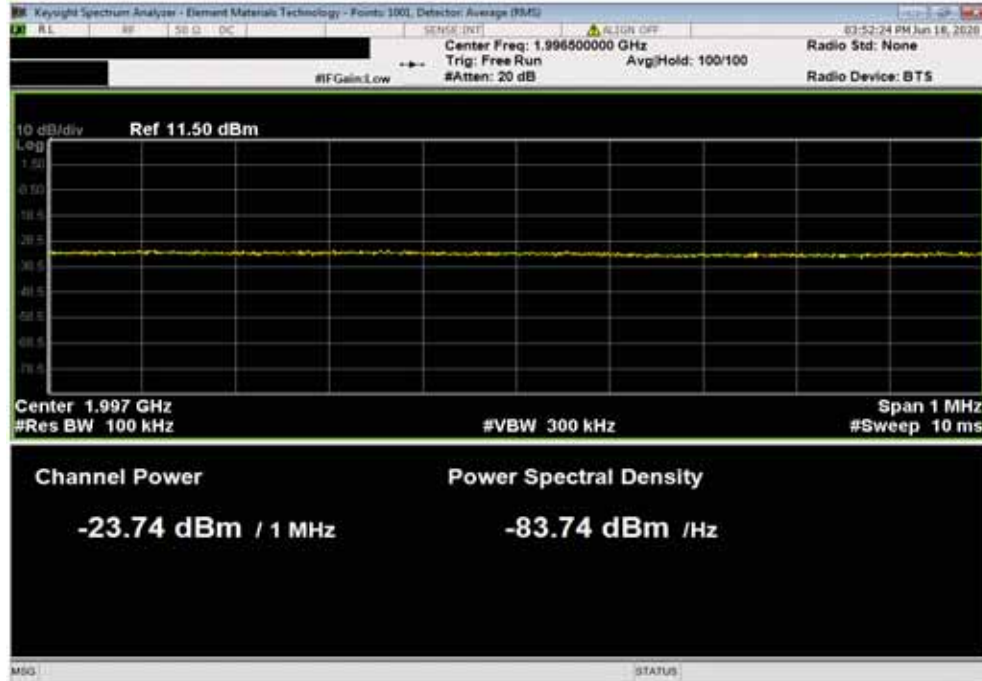


BAND EDGE COMPLIANCE - BAND n25

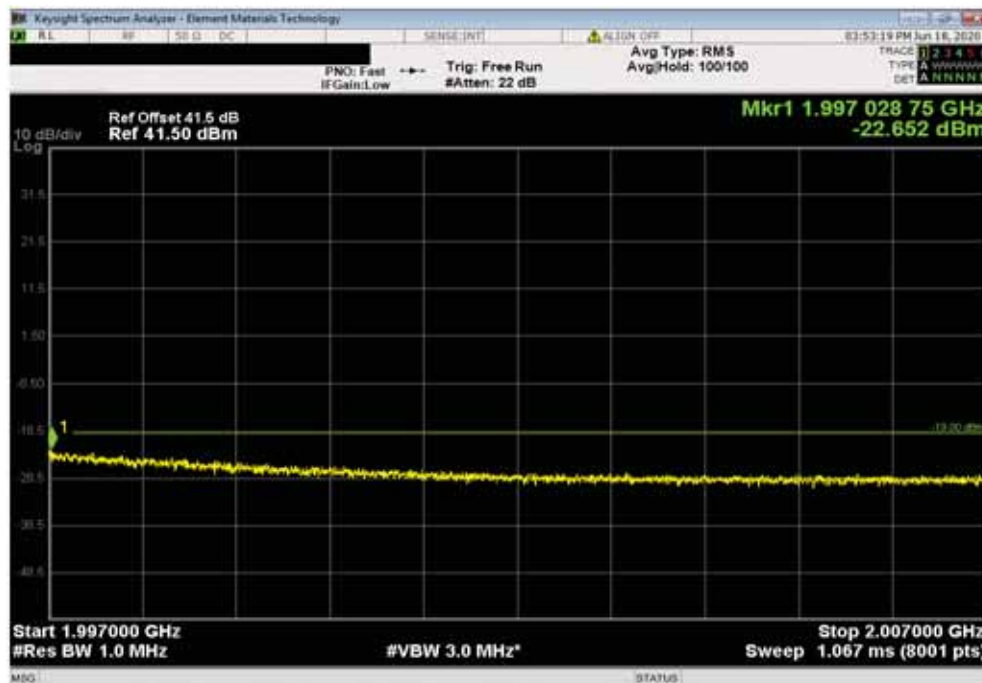


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel 1990 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-23.74	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel 1990 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.0	-22.65	-19	Pass		

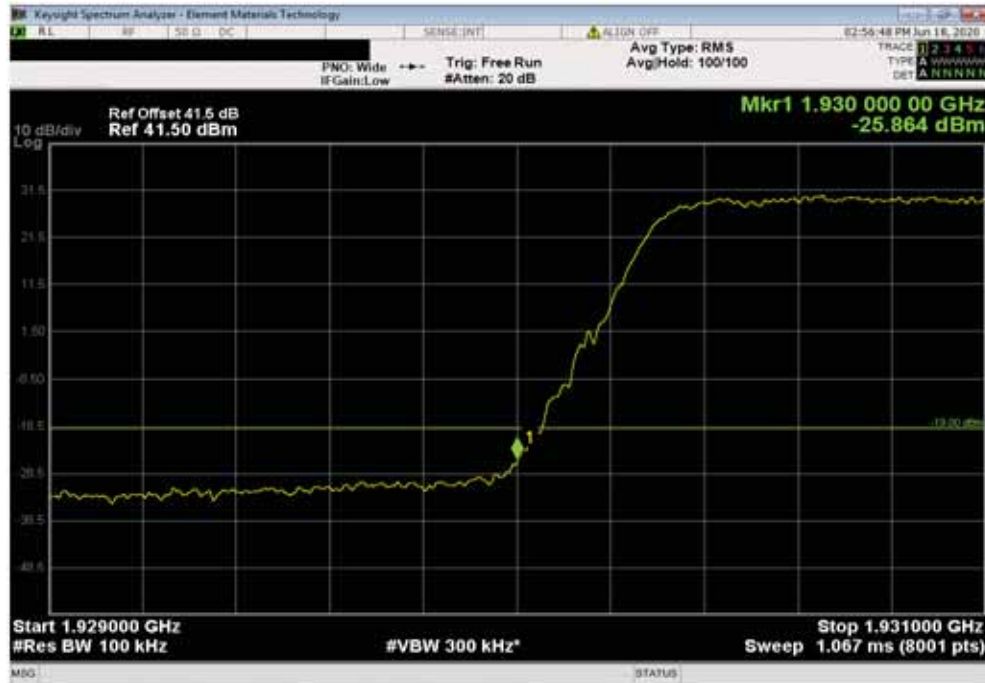


BAND EDGE COMPLIANCE - BAND n25

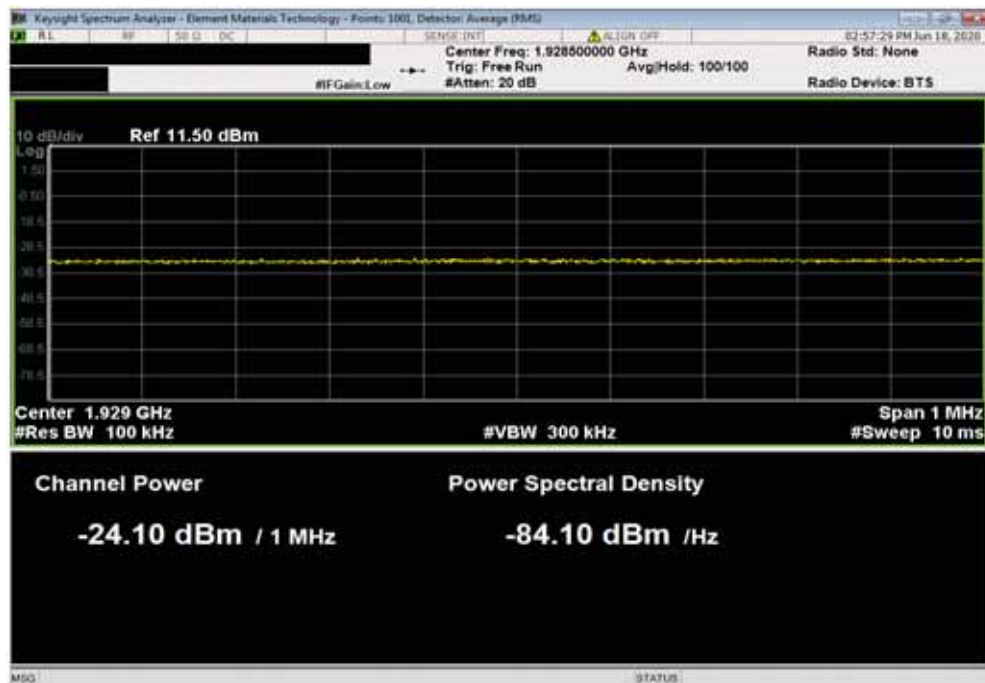


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 64-QAM Modulation, Low Channel 1935 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-25.86	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 64-QAM Modulation, Low Channel 1935 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-24.10	-19	Pass		



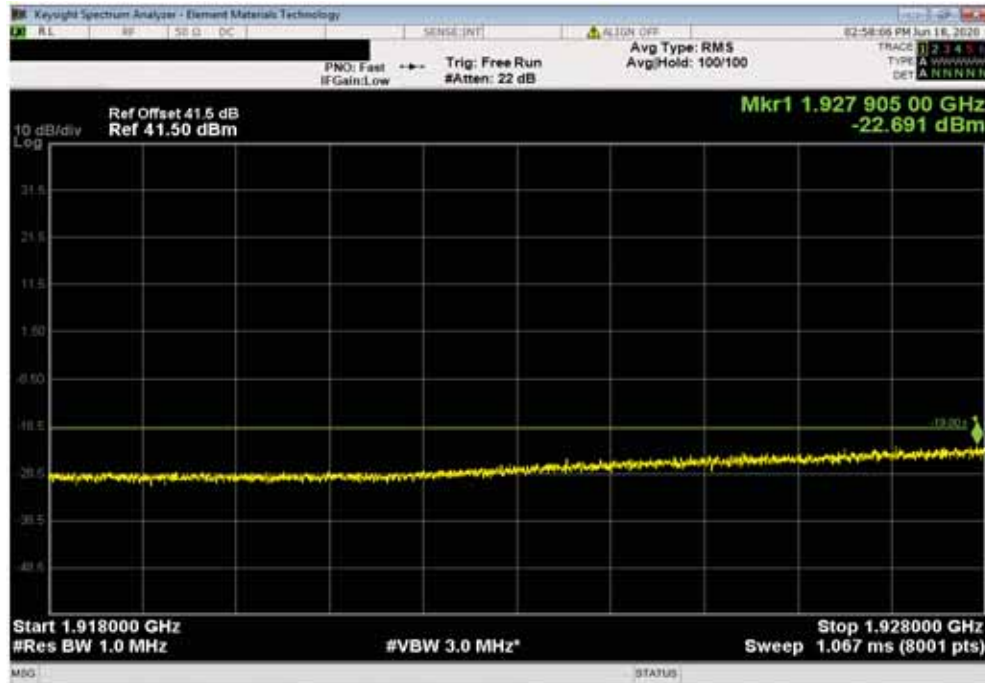
BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 64-QAM Modulation, Low Channel 1935 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3	1927.9	-22.69	-19	Pass



Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 64-QAM Modulation, High Channel 1990 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
1	1995.0	-24.41	-19	Pass

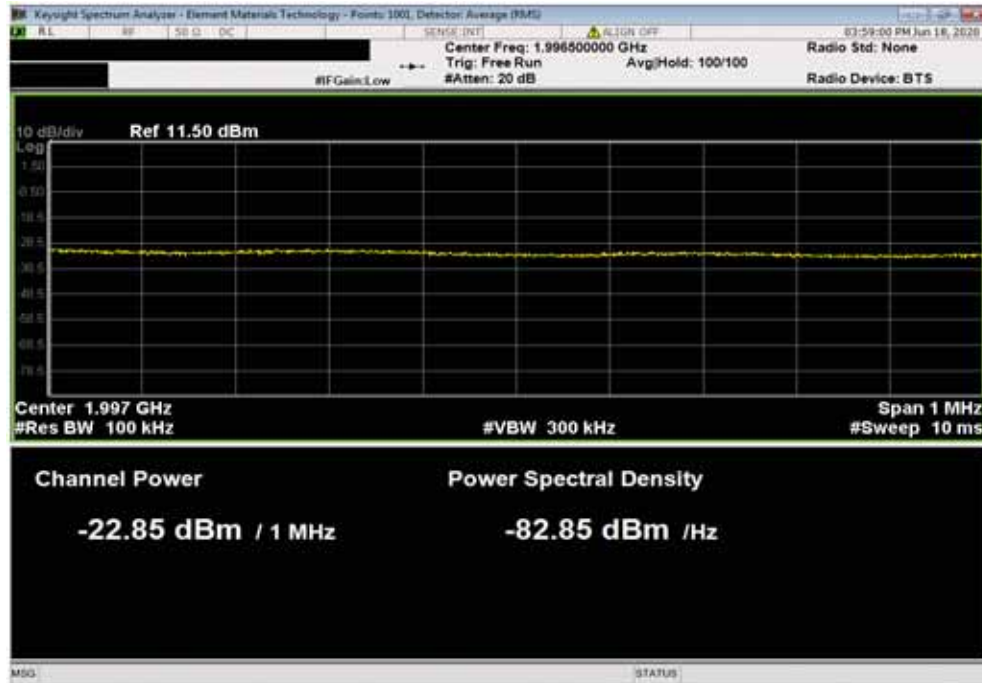


BAND EDGE COMPLIANCE - BAND n25

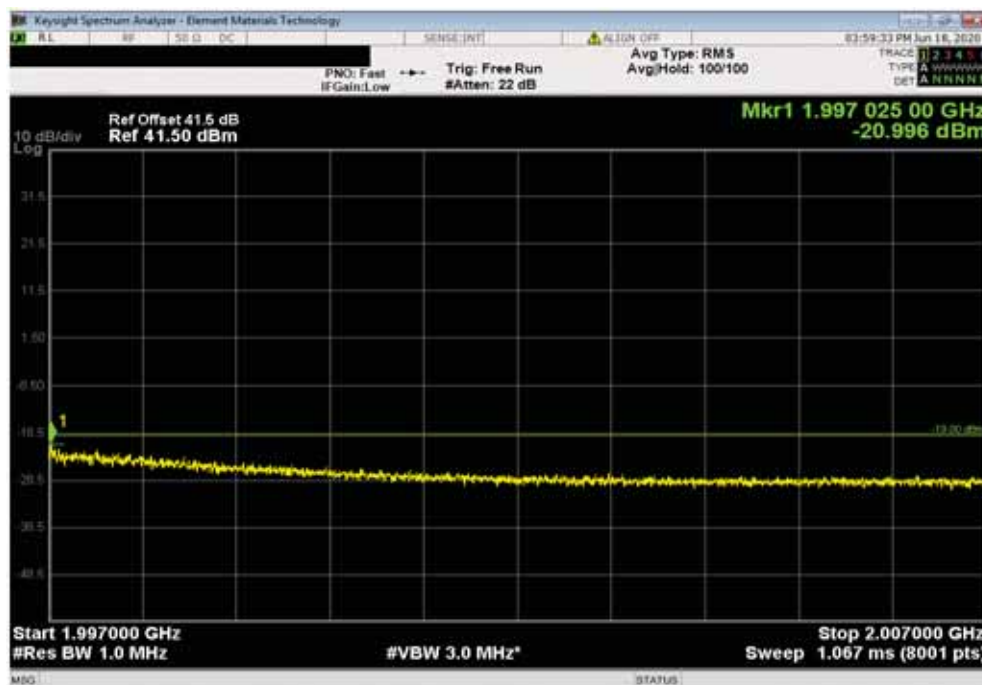


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 64-QAM Modulation, High Channel 1990 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-22.85	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 64-QAM Modulation, High Channel 1990 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.0	-21.00	-19	Pass		

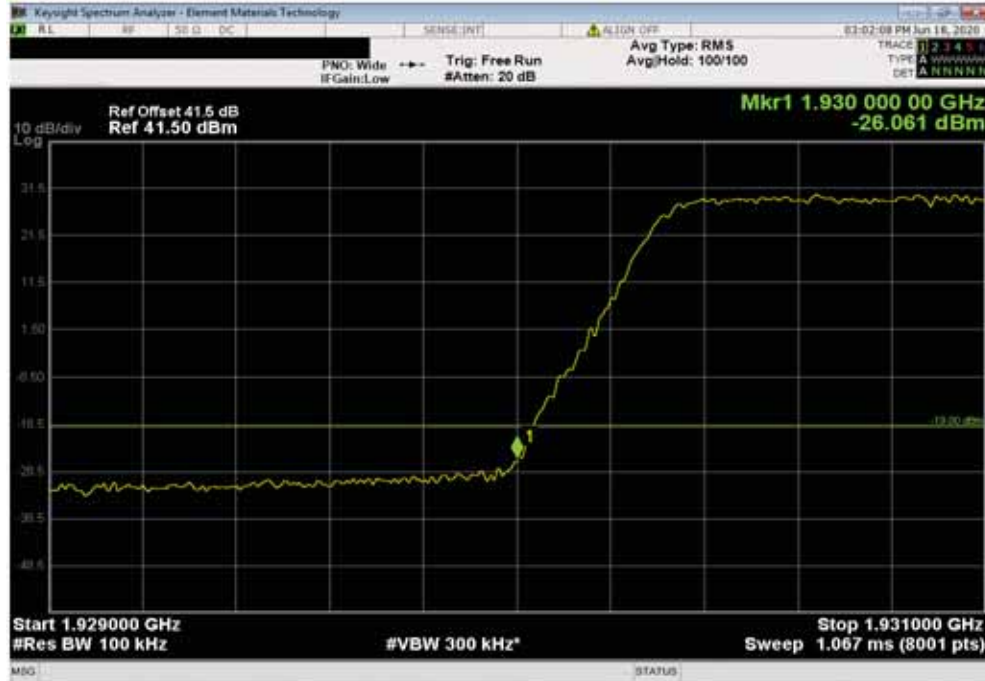


BAND EDGE COMPLIANCE - BAND n25

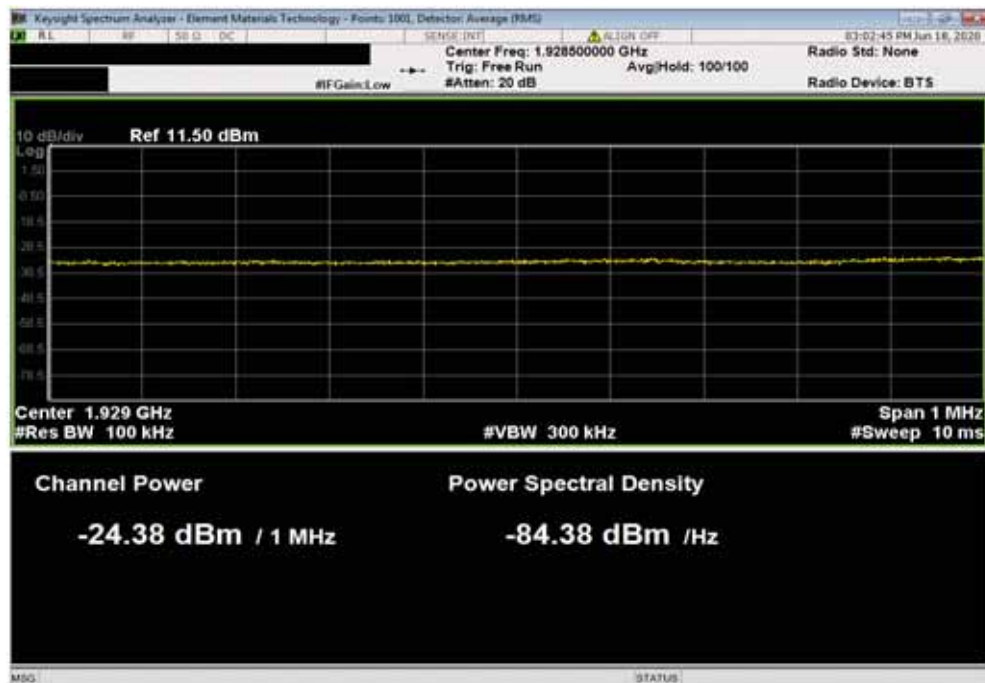


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel 1935 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-26.06	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel 1935 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-24.38	-19	Pass		

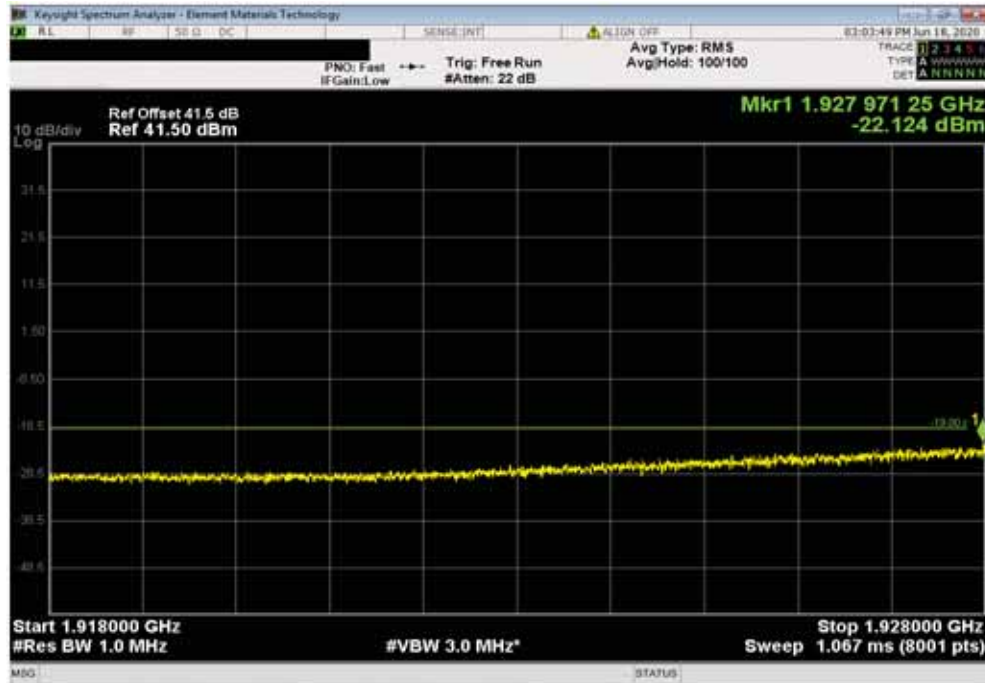


BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel 1935 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1928.0	-22.12	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel 1990 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.0	-26.01	-19	Pass		

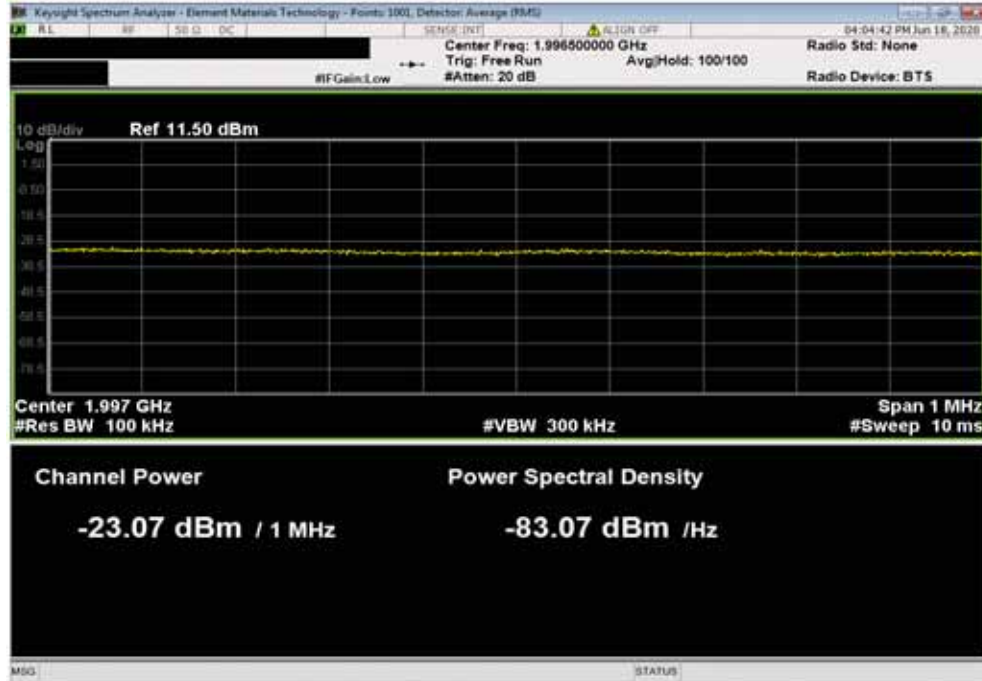


BAND EDGE COMPLIANCE - BAND n25

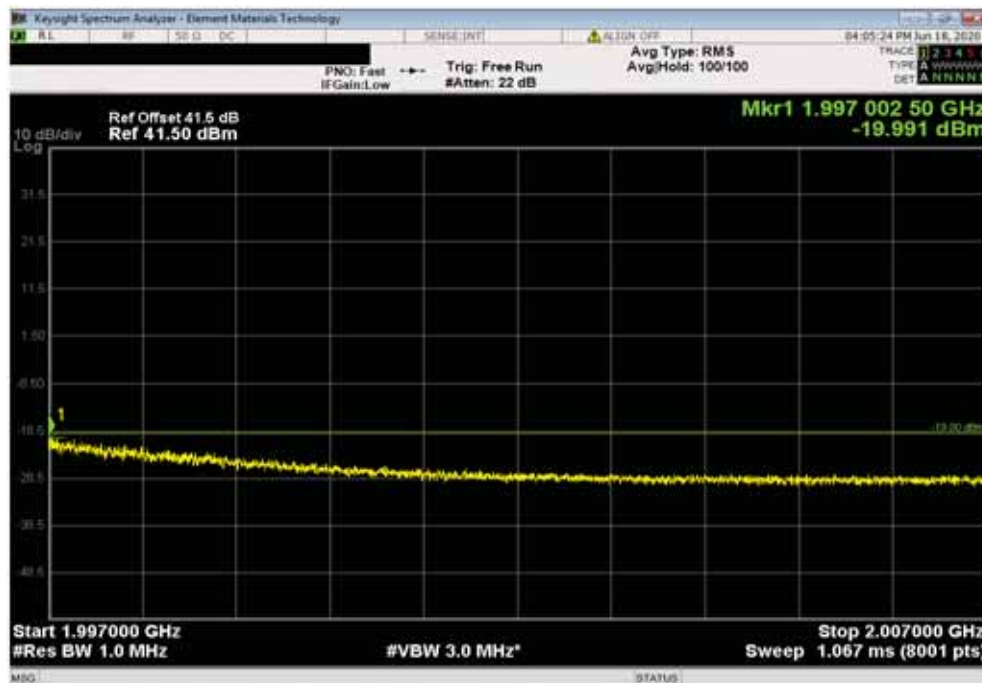


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel 1990 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-23.07	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel 1990 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.0	-19.99	-19	Pass		

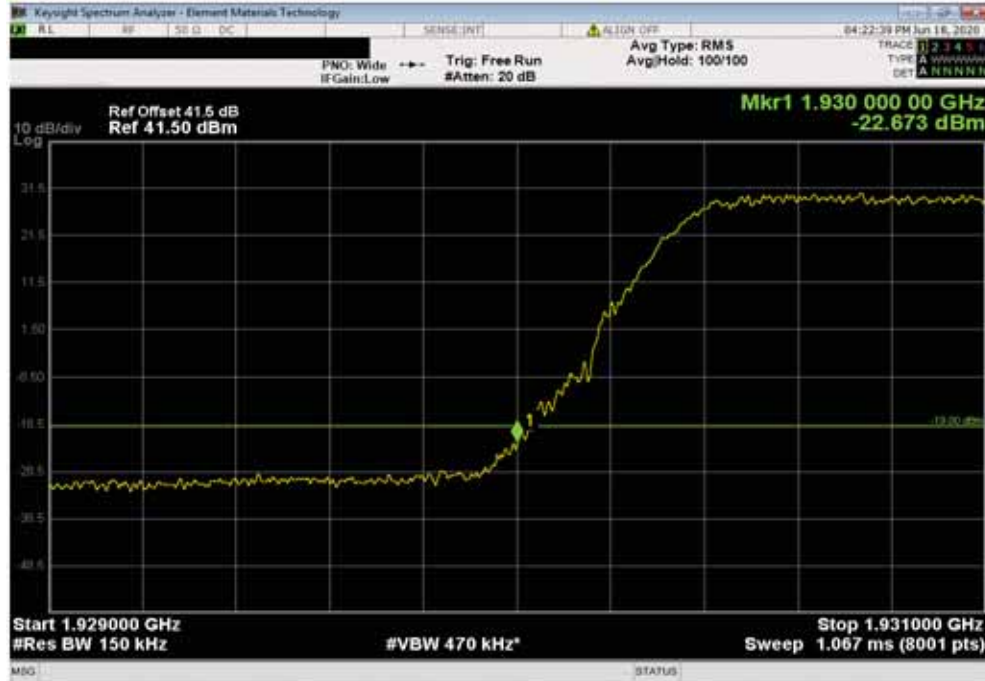


BAND EDGE COMPLIANCE - BAND n25

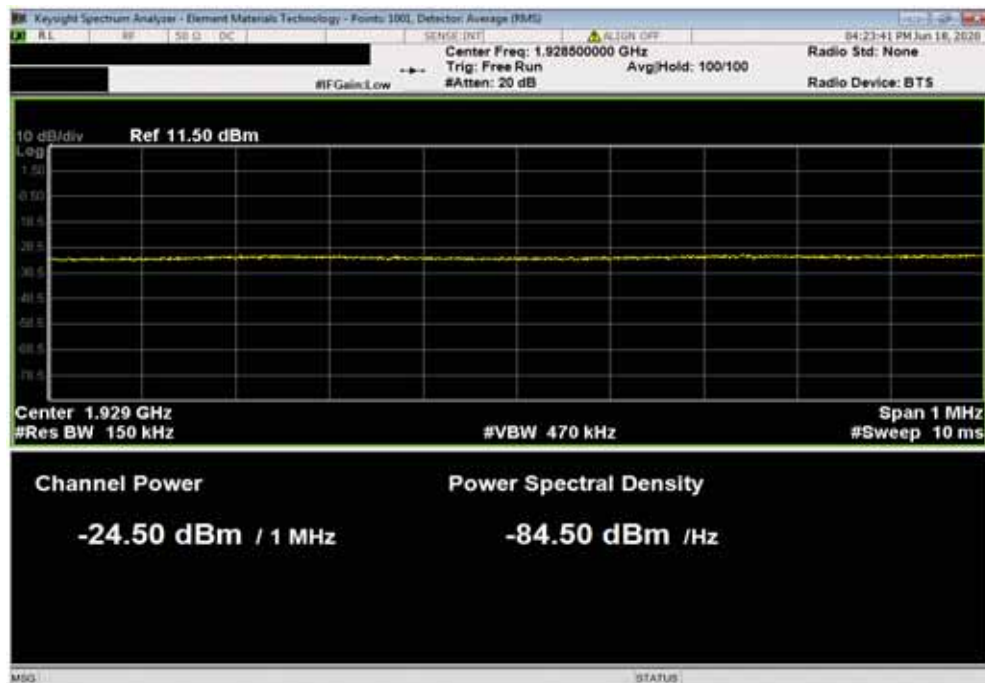


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-22.67	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-24.50	-19	Pass		

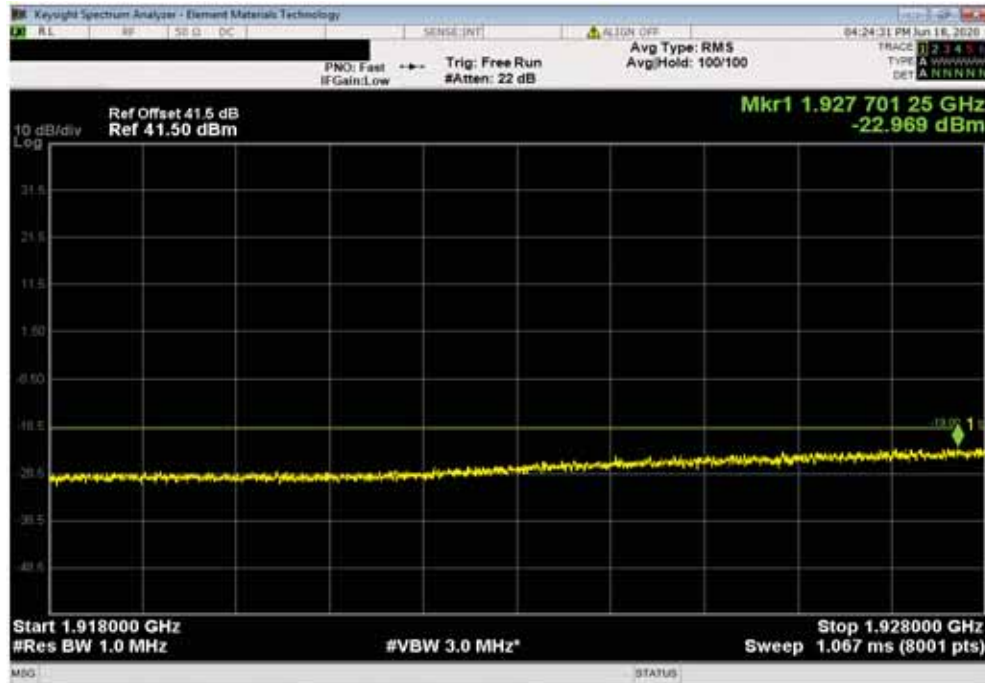


BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, QPSK Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1927.7	-22.97	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, QPSK Modulation, High Channel 1987.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.0	-21.86	-19	Pass		

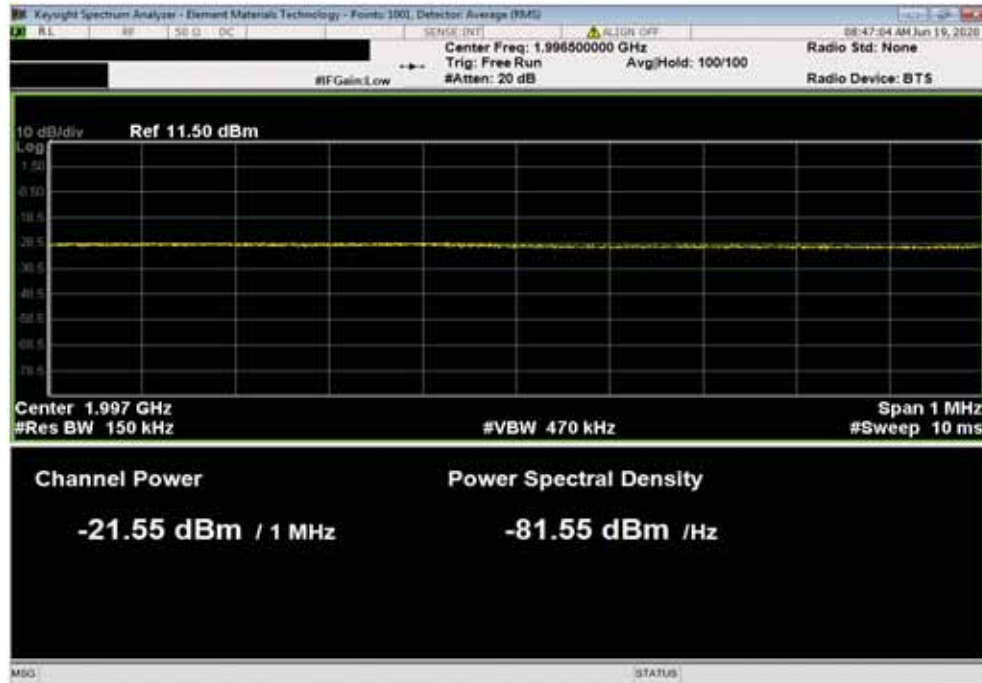


BAND EDGE COMPLIANCE - BAND n25

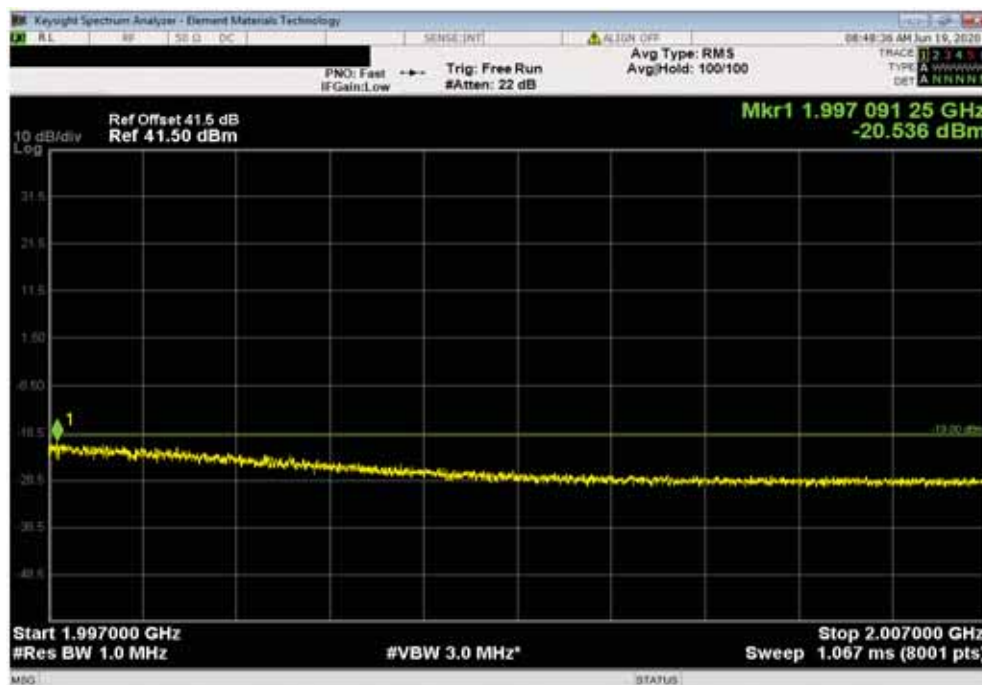


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, QPSK Modulation, High Channel 1987.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-21.55	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, QPSK Modulation, High Channel 1987.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.1	-20.54	-19	Pass		

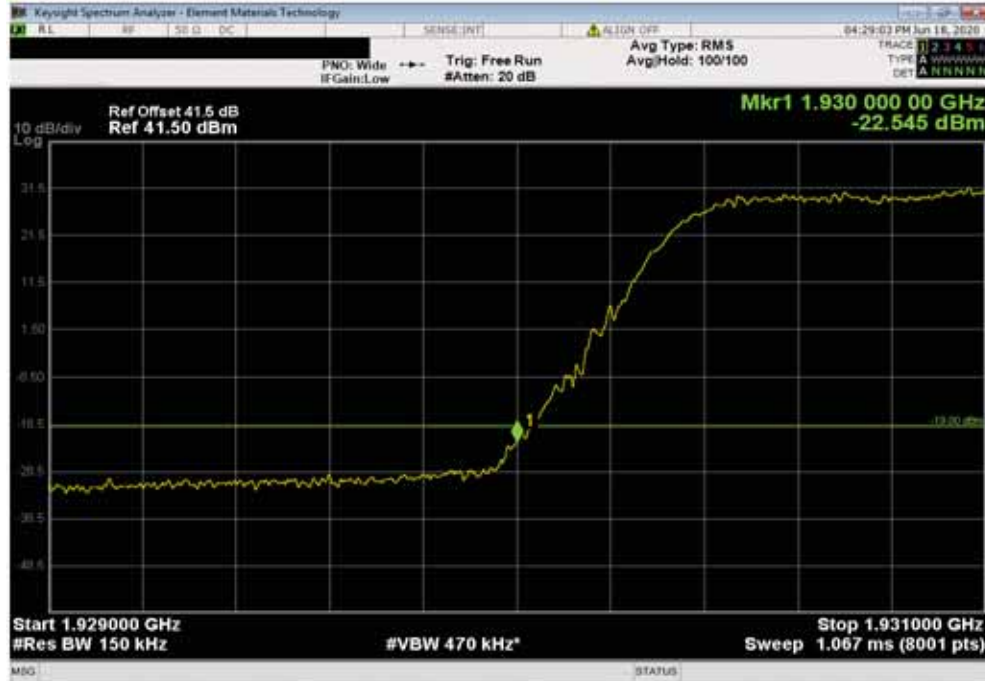


BAND EDGE COMPLIANCE - BAND n25

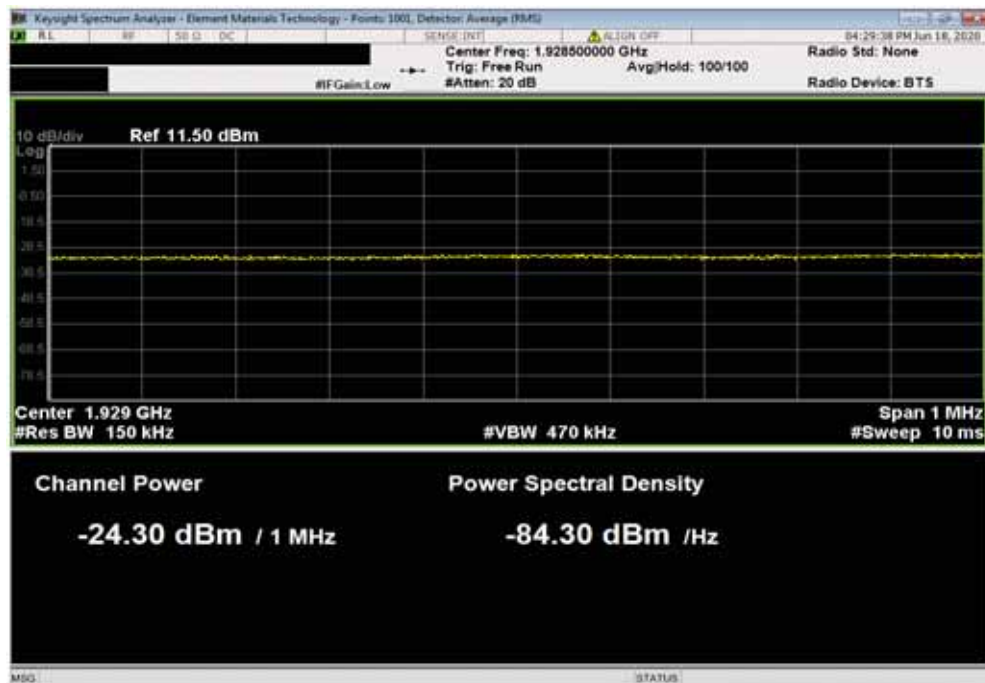


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-22.55	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-24.50	-19	Pass		

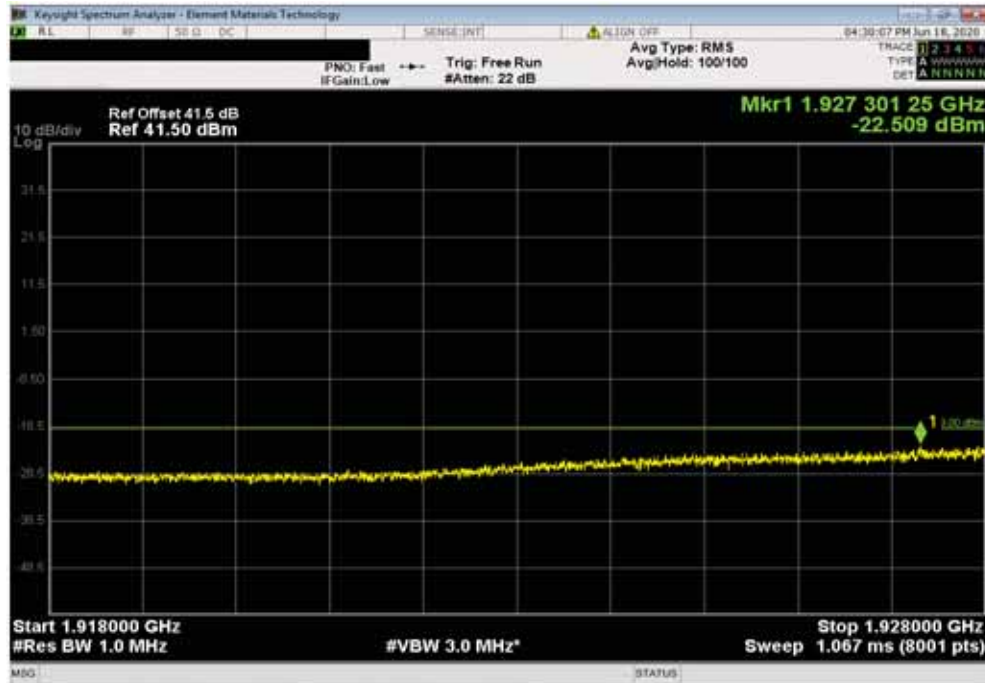


BAND EDGE COMPLIANCE - BAND n25

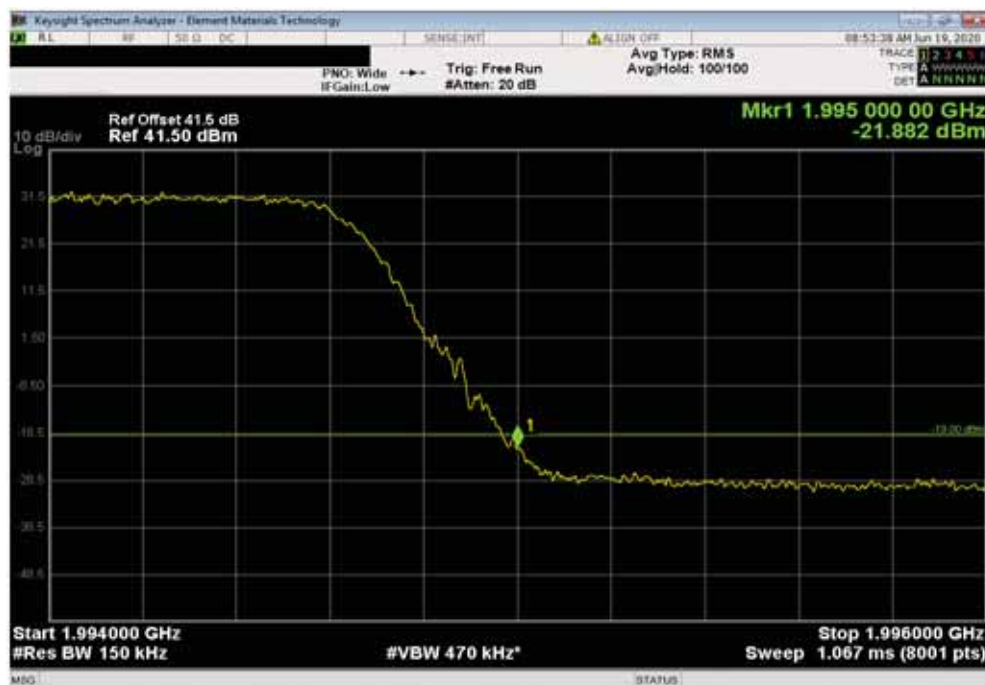


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1927.3	-22.51	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 1987.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.0	-21.88	-19	Pass		

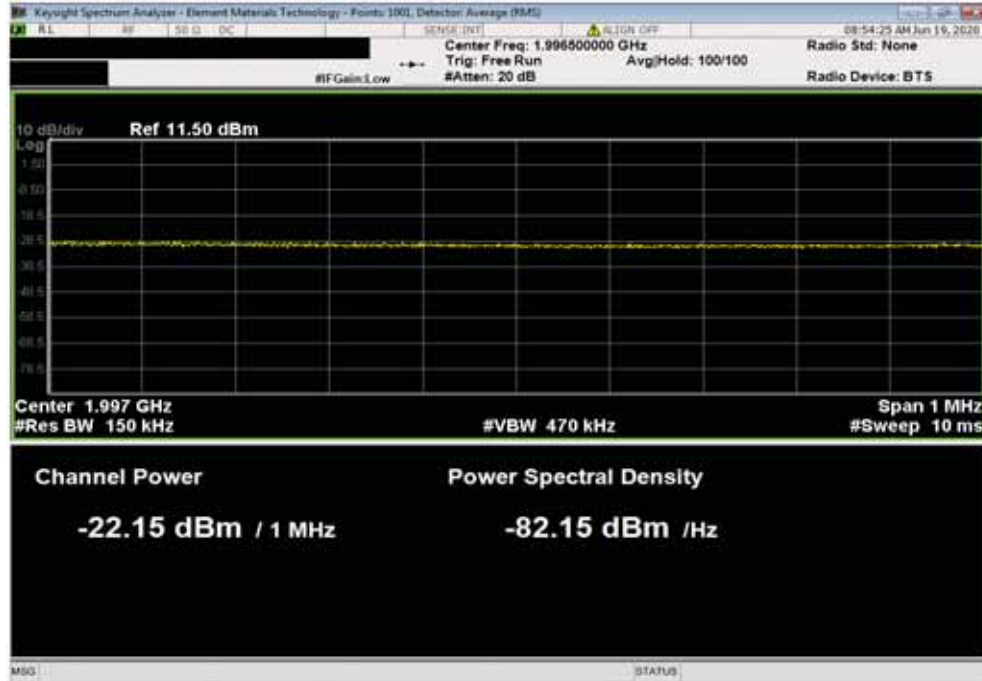


BAND EDGE COMPLIANCE - BAND n25

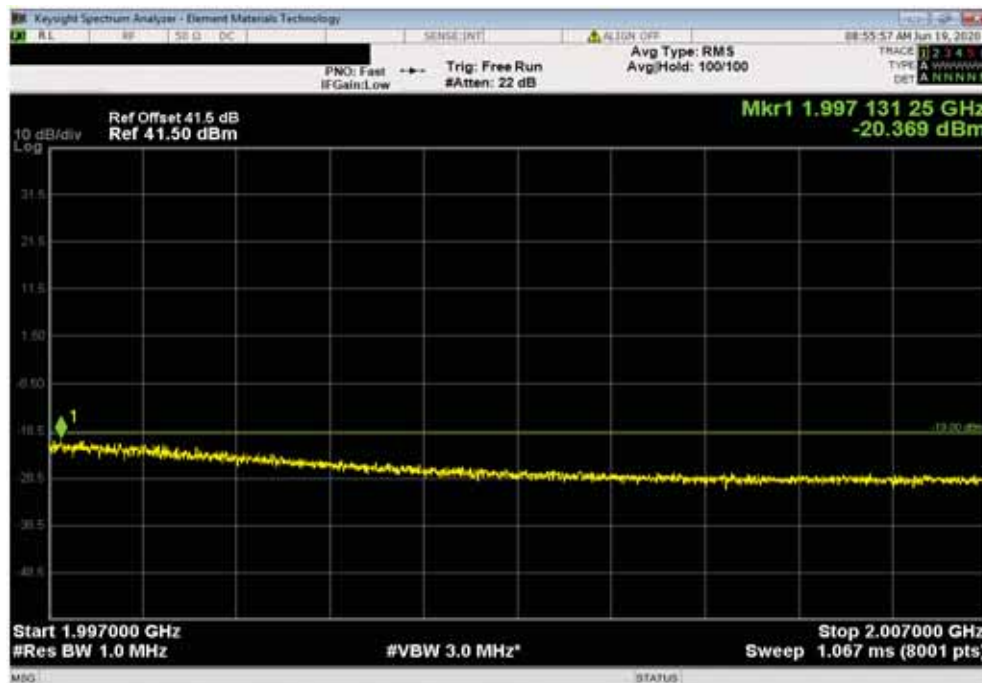


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 1987.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-22.15	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 1987.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.1	-20.37	-19	Pass		

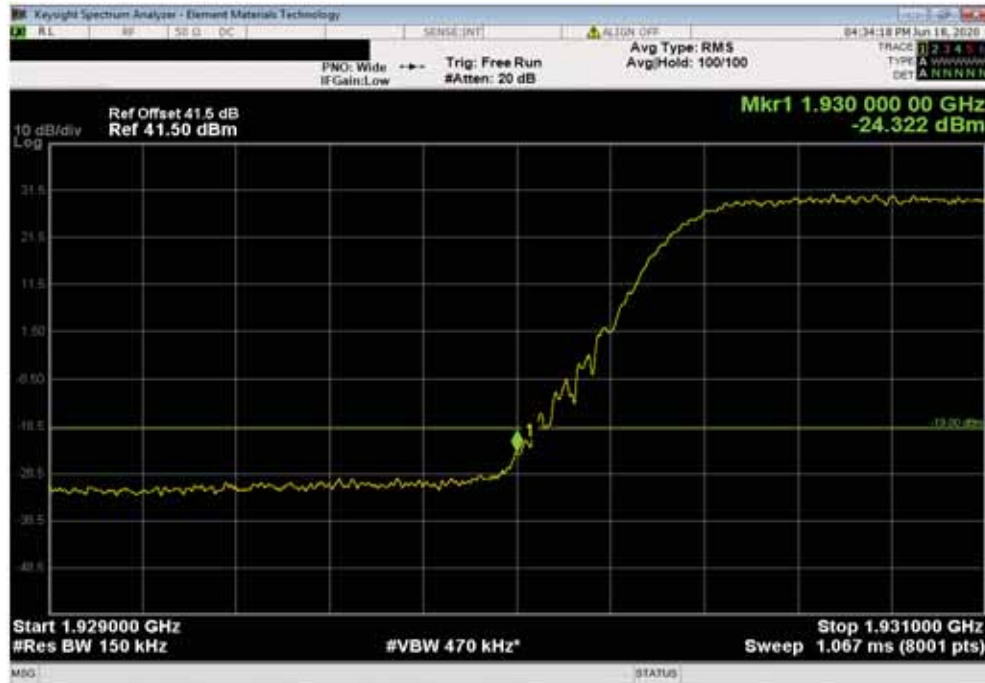


BAND EDGE COMPLIANCE - BAND n25

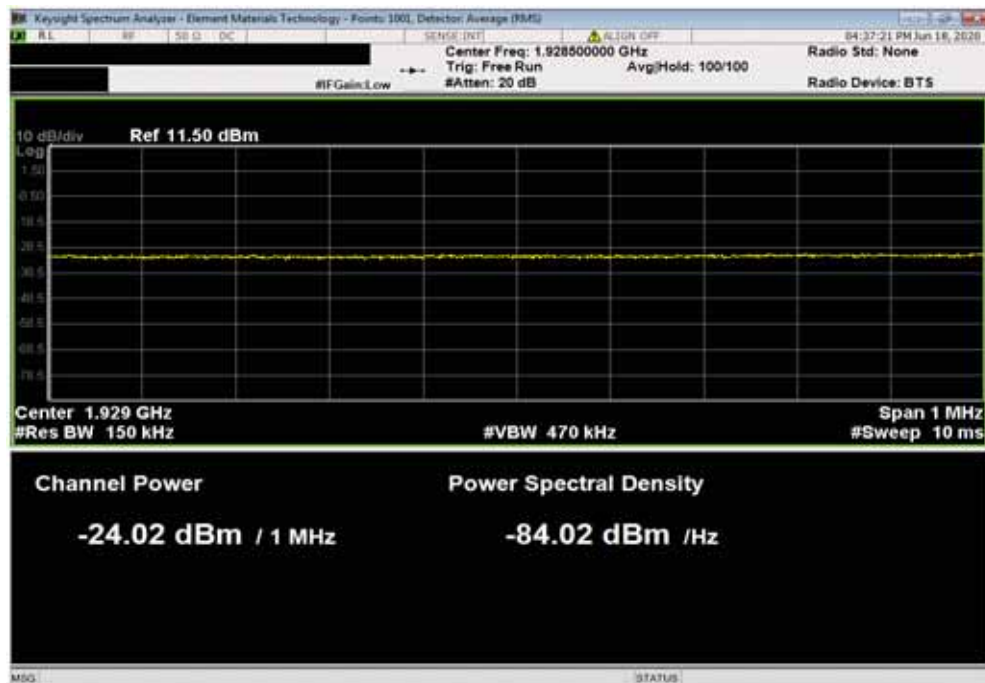


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-24.32	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-24.02	-19	Pass		

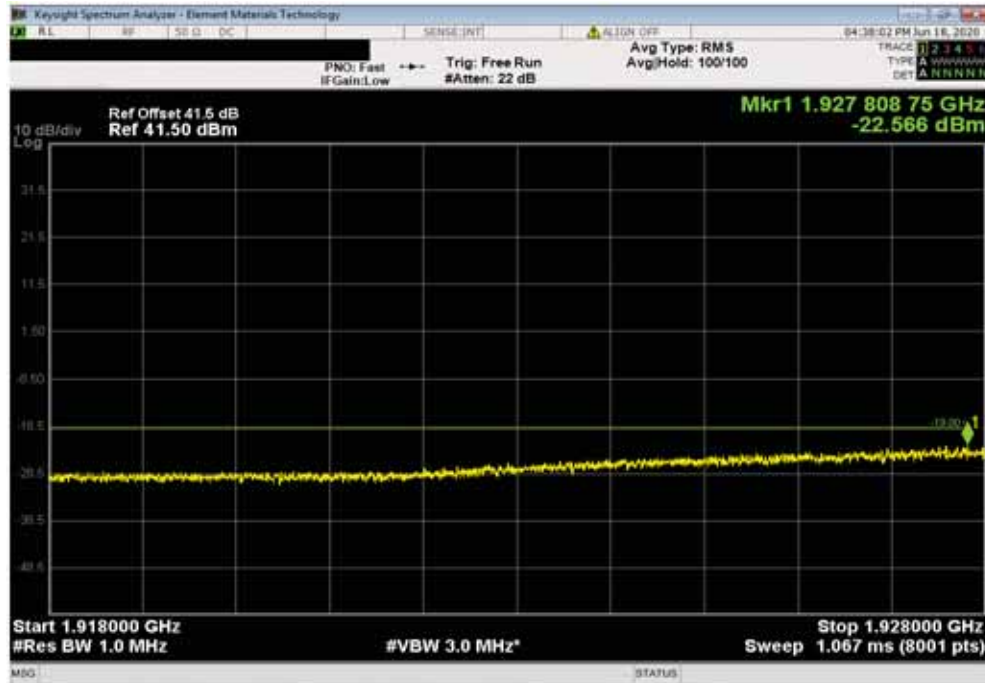


BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1927.8	-22.57	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 1987.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.0	-21.43	-19	Pass		

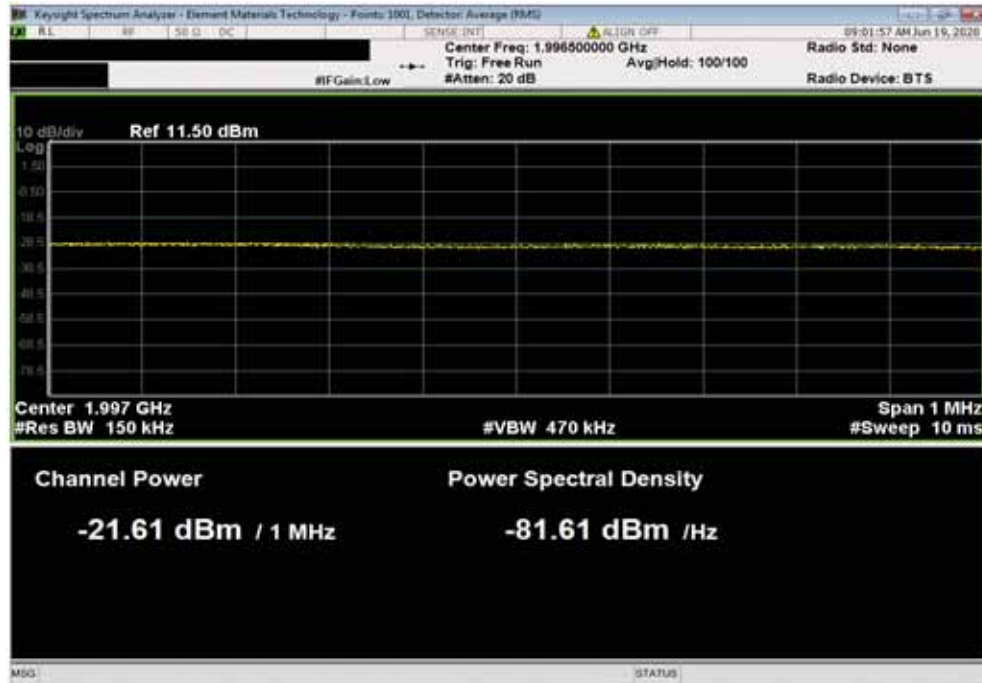


BAND EDGE COMPLIANCE - BAND n25

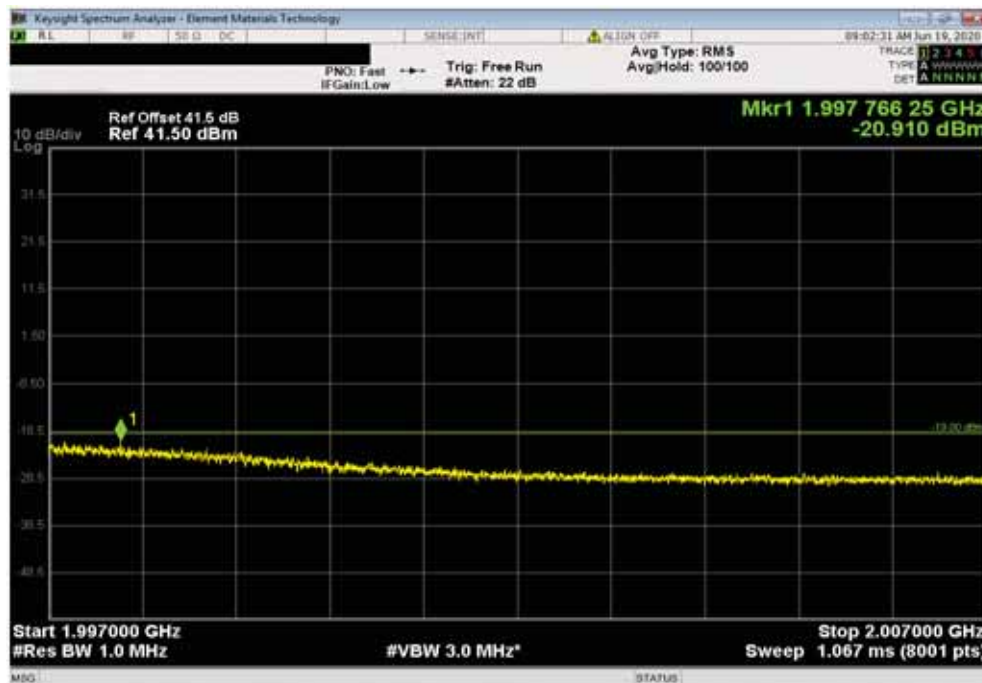


TMTx 2020.06.08.0 BETA XMit 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 1987.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-21.61	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 1987.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.8	-20.91	-19	Pass		

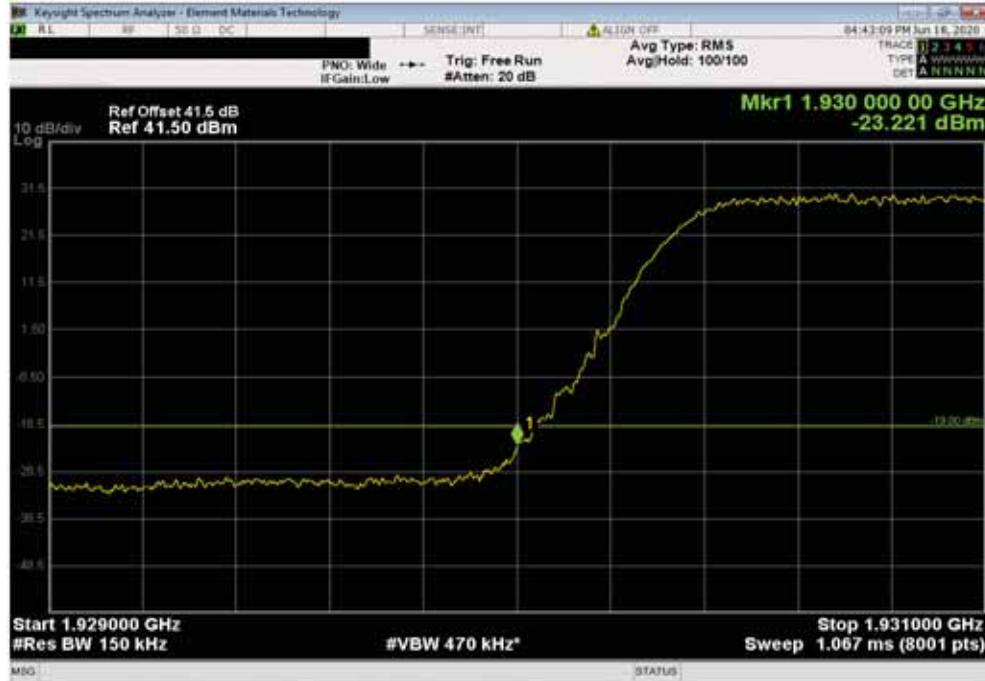


BAND EDGE COMPLIANCE - BAND n25

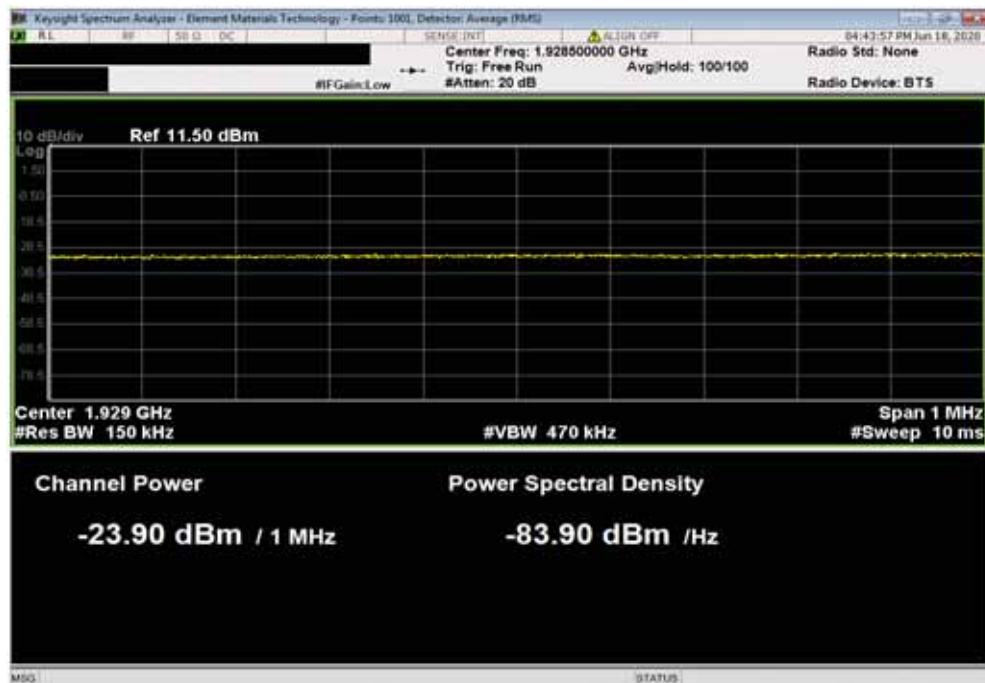


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-23.22	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-23.90	-19	Pass		

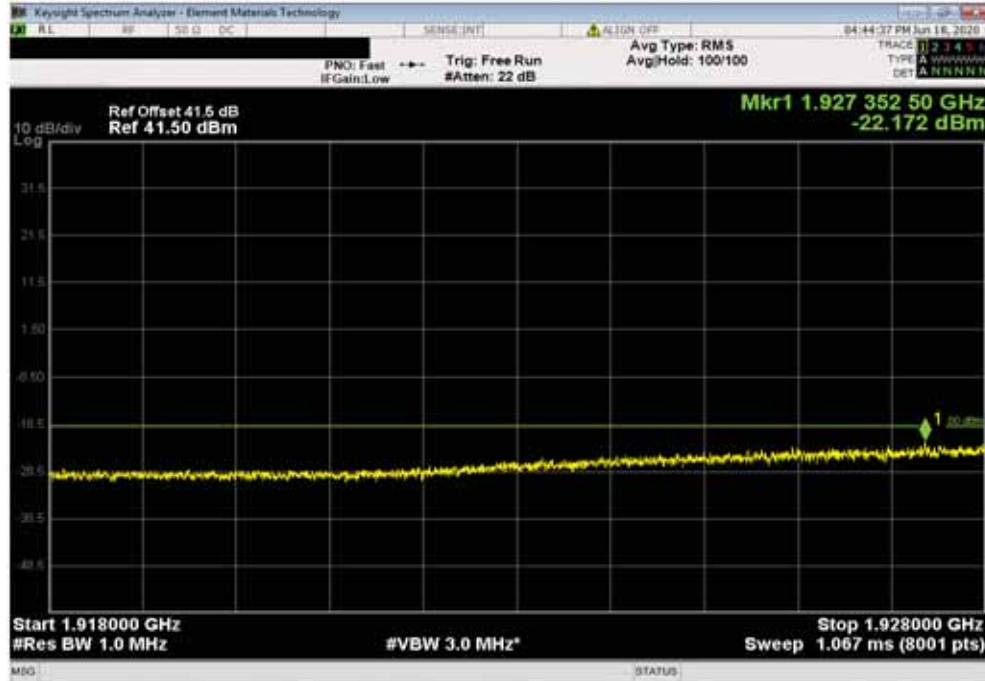


BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 1937.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1927.4	-22.17	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 1987.5 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.0	-23.07	-19	Pass		



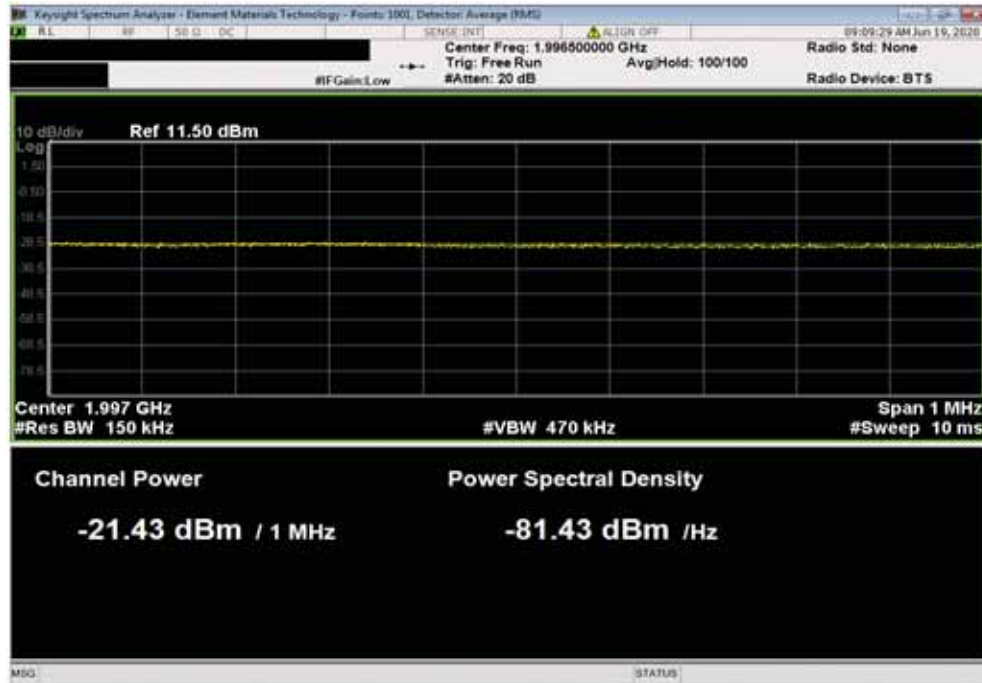
BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

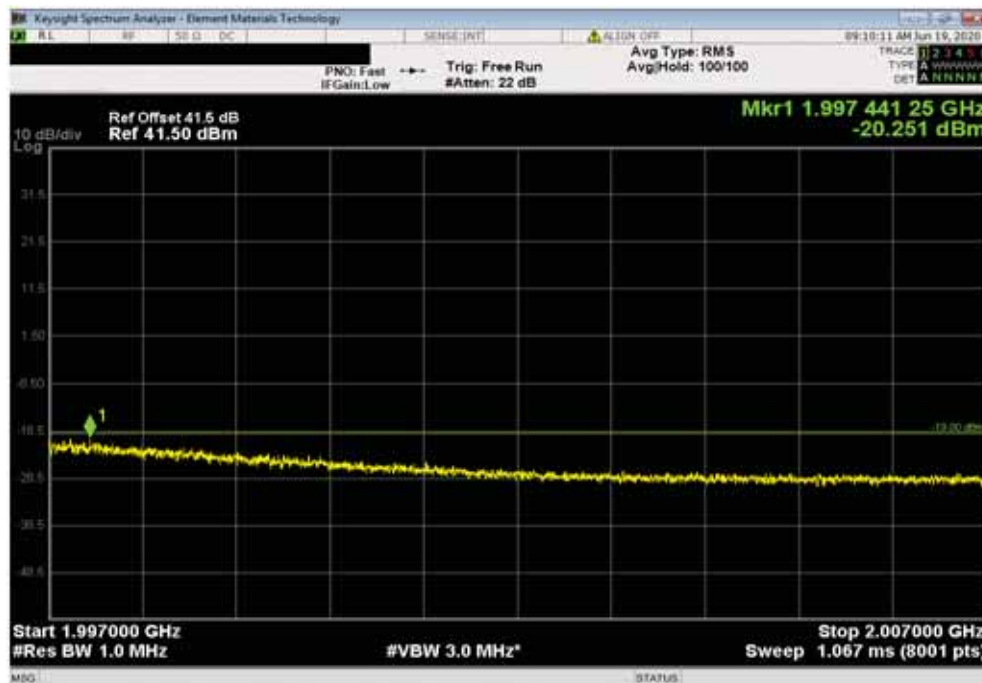
Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 1987.5 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
2	1996.5	-21.43	-19	Pass



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 1987.5 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3	1997.4	-20.25	-19	Pass

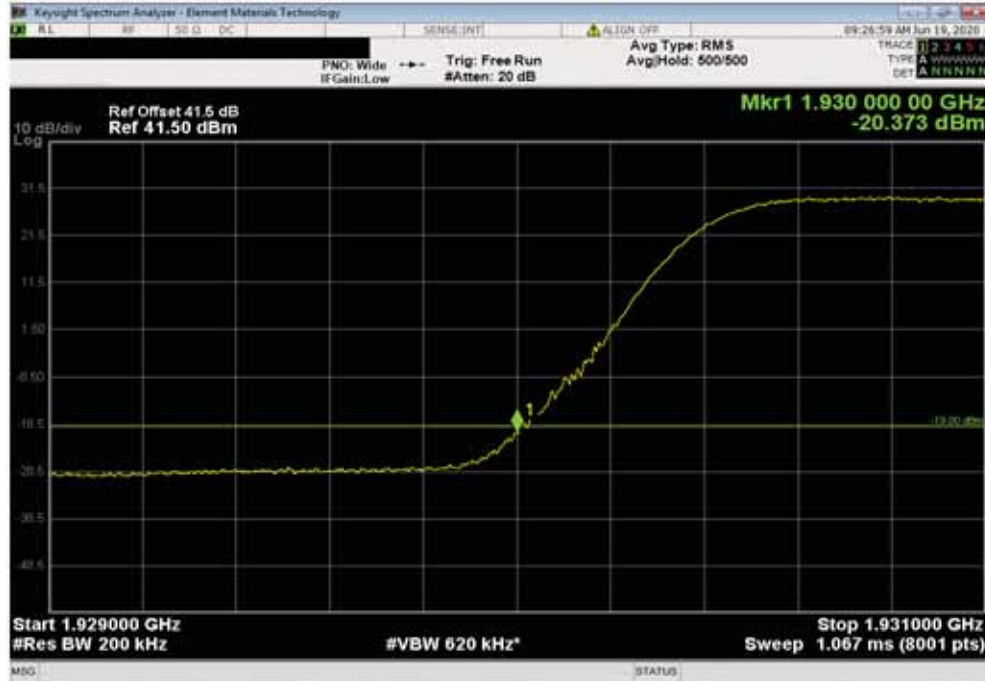


BAND EDGE COMPLIANCE - BAND n25

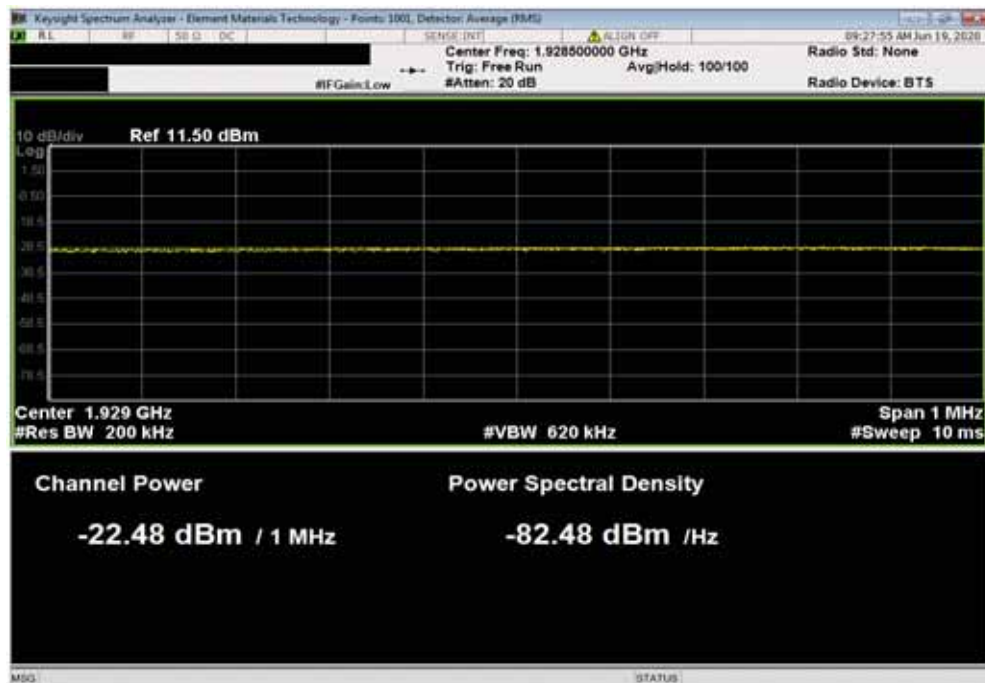


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-20.37	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-22.48	-19	Pass		

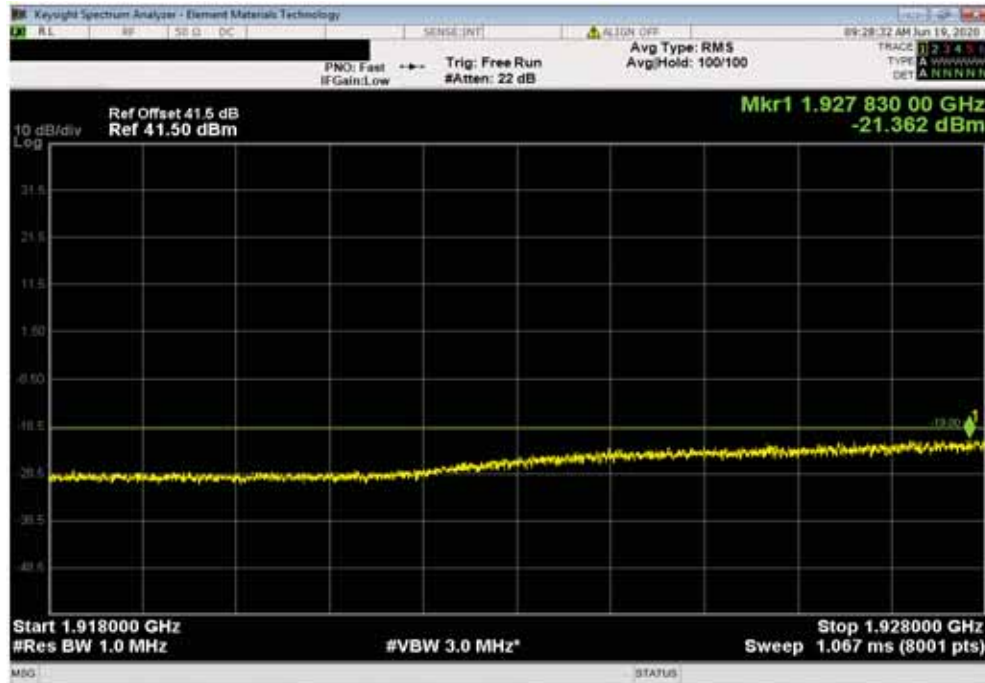


BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1927.8	-21.36	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel 1985 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.1	-24.43	-19	Pass		



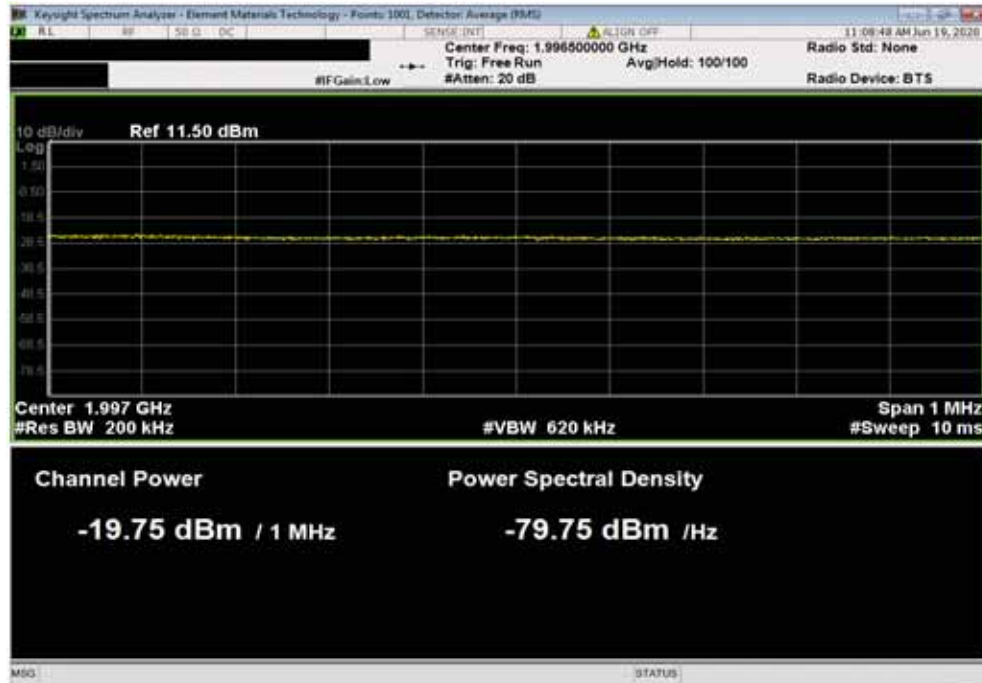
BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

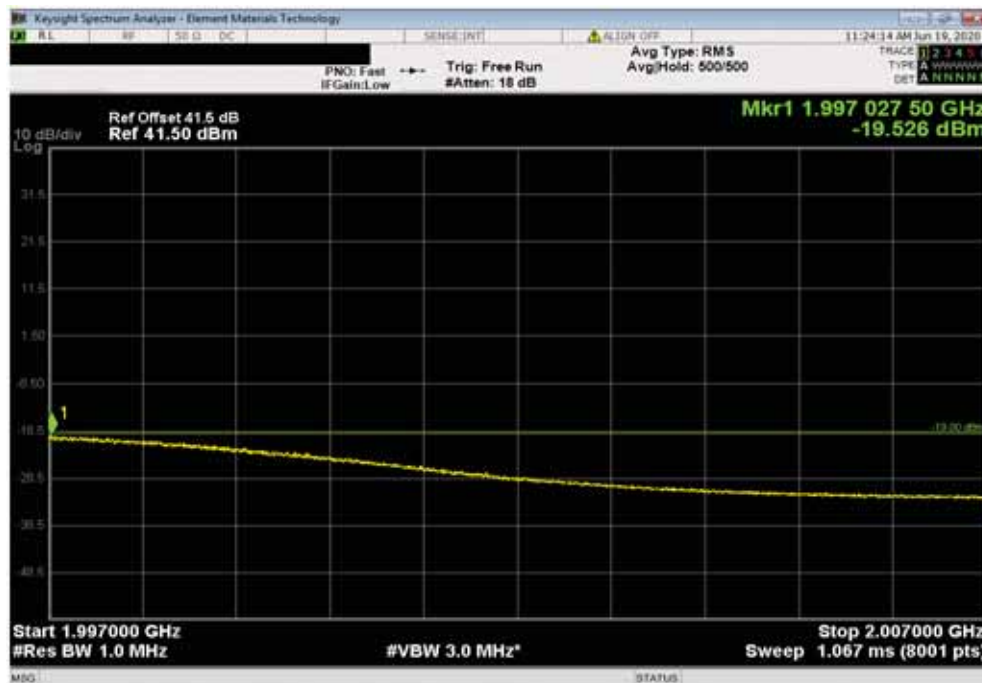
Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel 1985 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
2	1996.5	-19.75	-19	Pass



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel 1985 MHz

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3	1997.0	-19.53	-19	Pass

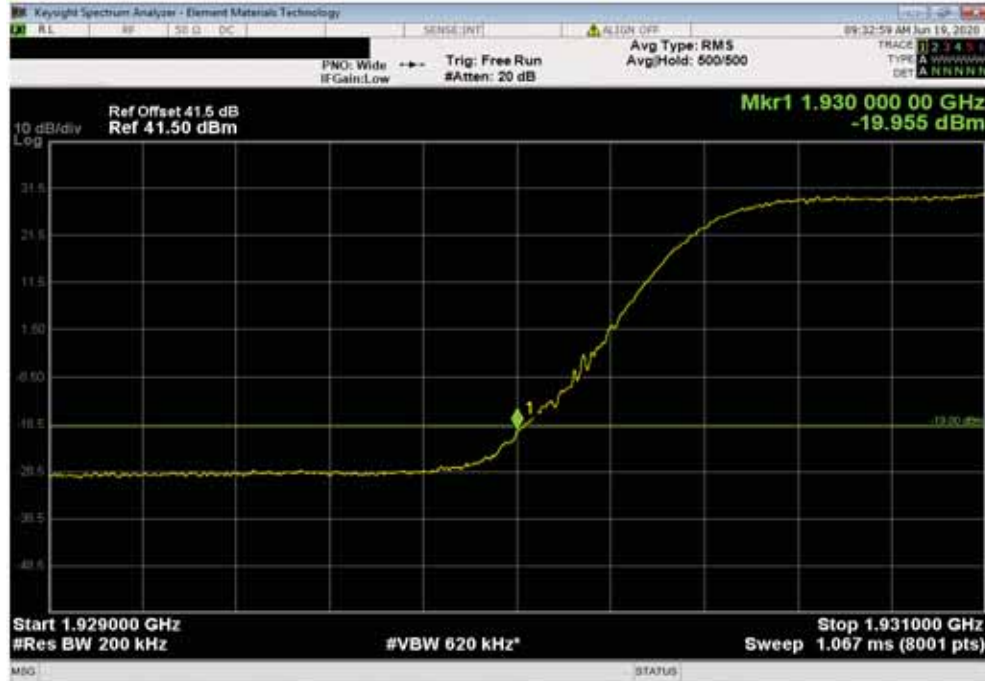


BAND EDGE COMPLIANCE - BAND n25

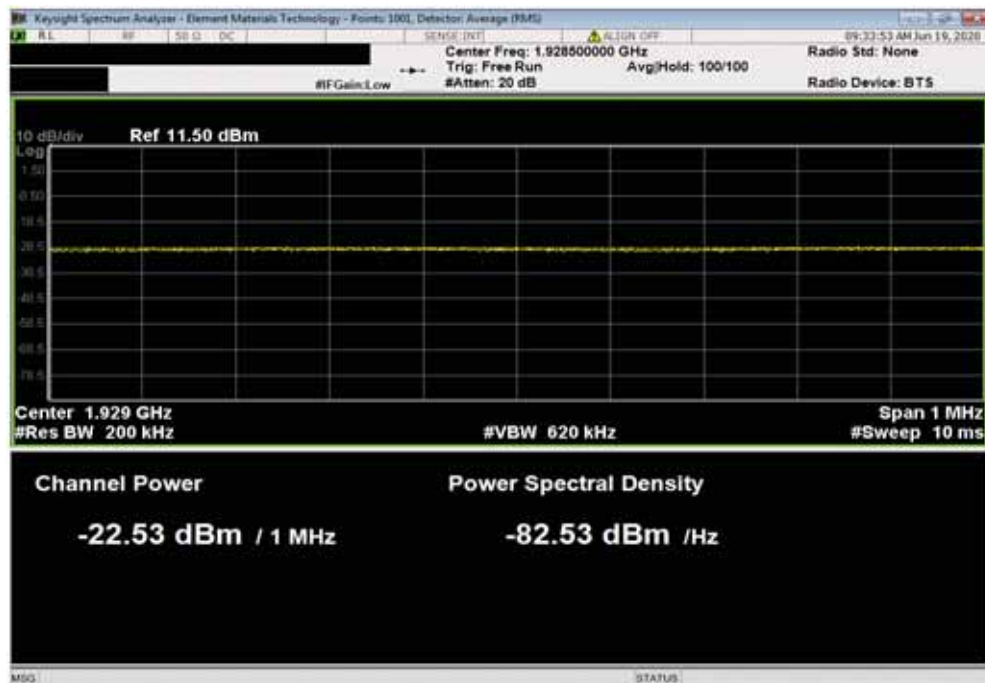


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-19.96	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-22.53	-19	Pass		

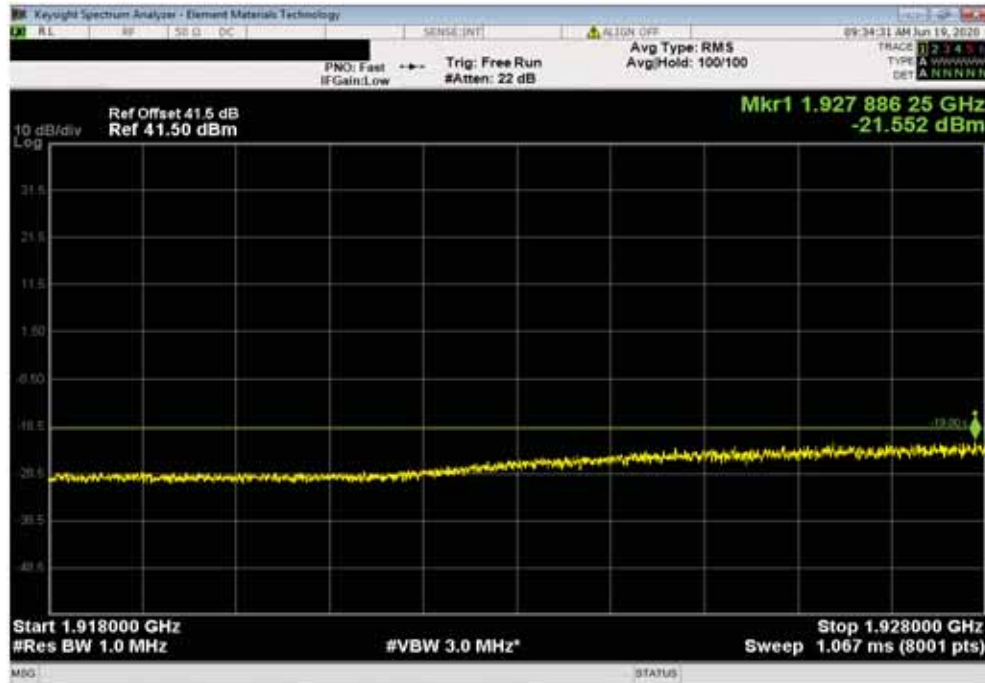


BAND EDGE COMPLIANCE - BAND n25



TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1927.9	-21.55	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 1985 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.0	-19.77	-19	Pass		

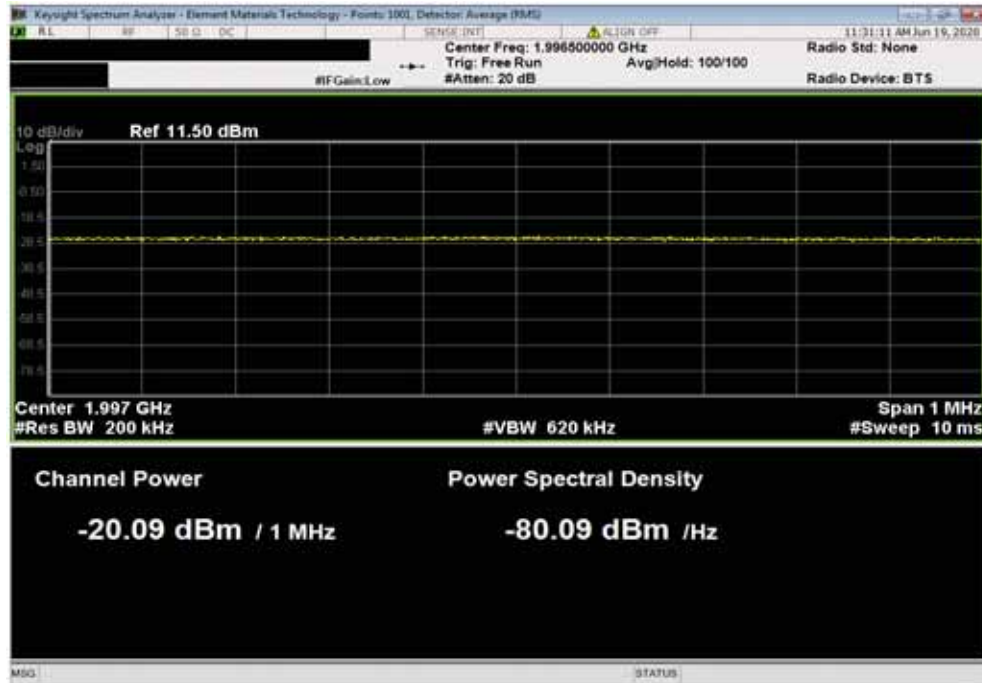


BAND EDGE COMPLIANCE - BAND n25

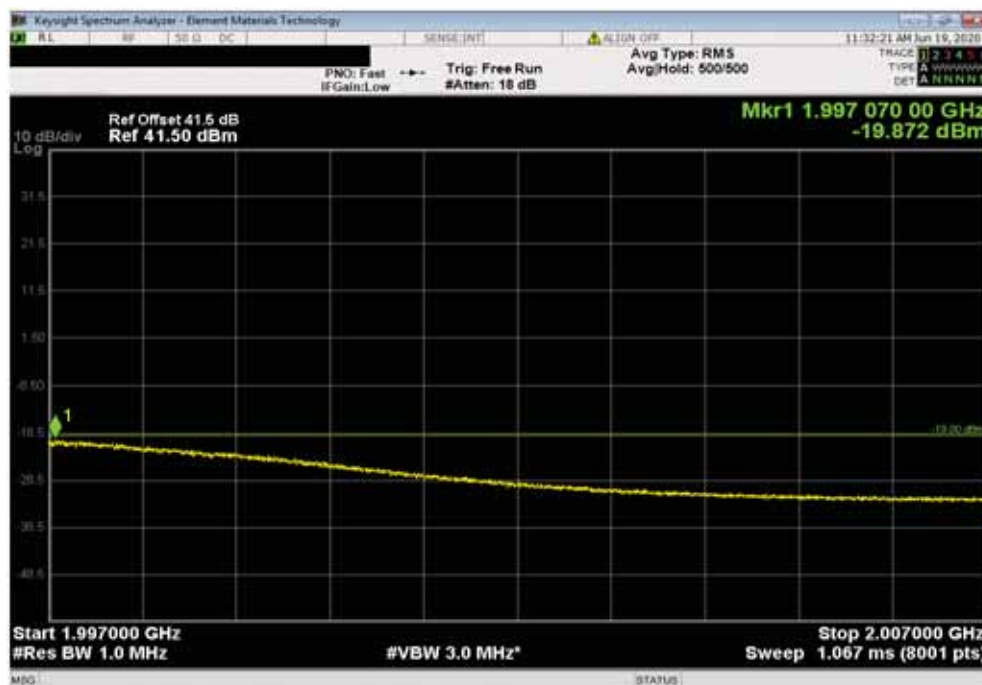


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 1985 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-20.09	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 1985 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.1	-19.87	-19	Pass		

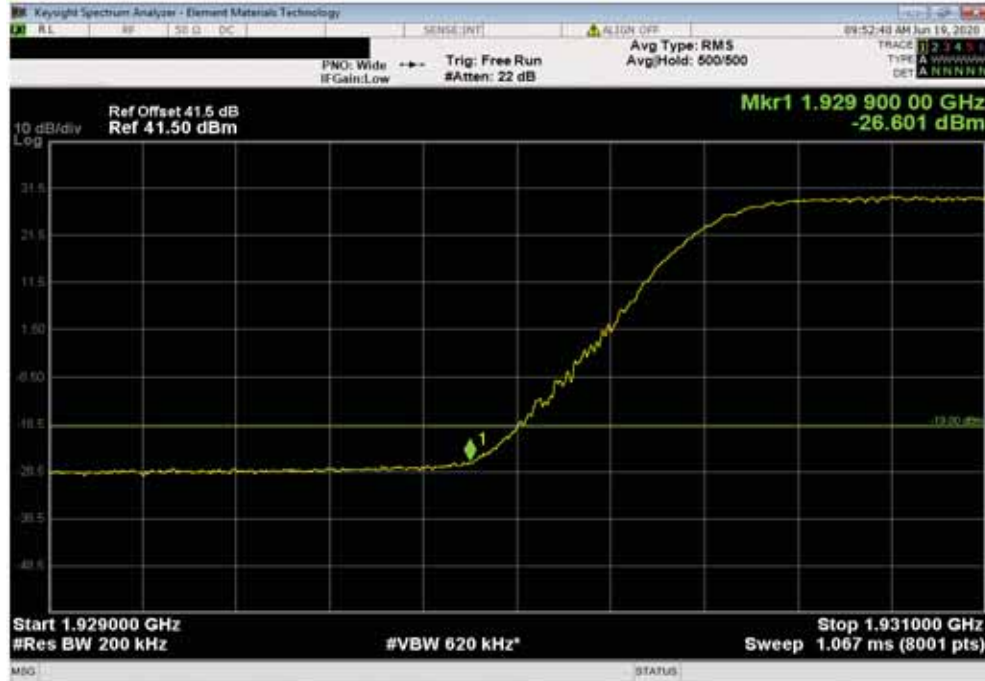


BAND EDGE COMPLIANCE - BAND n25

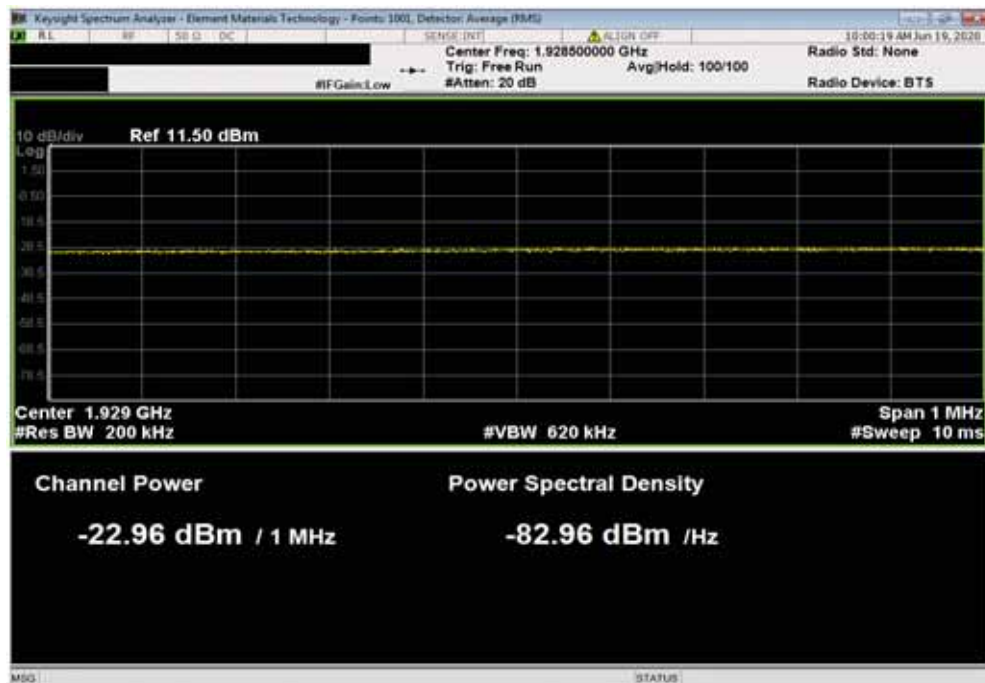


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1929.9	-26.60	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-22.96	-19	Pass		

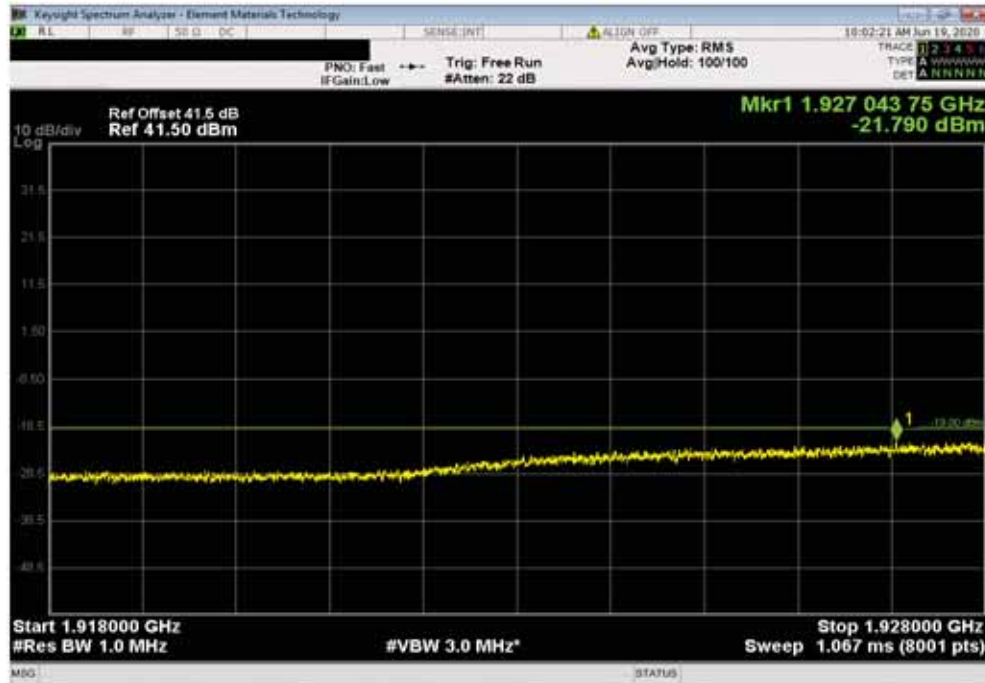


BAND EDGE COMPLIANCE - BAND n25



TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1927.0	-21.79	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 64-QAM Modulation, High Channel 1985 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.0	-19.90	-19	Pass		

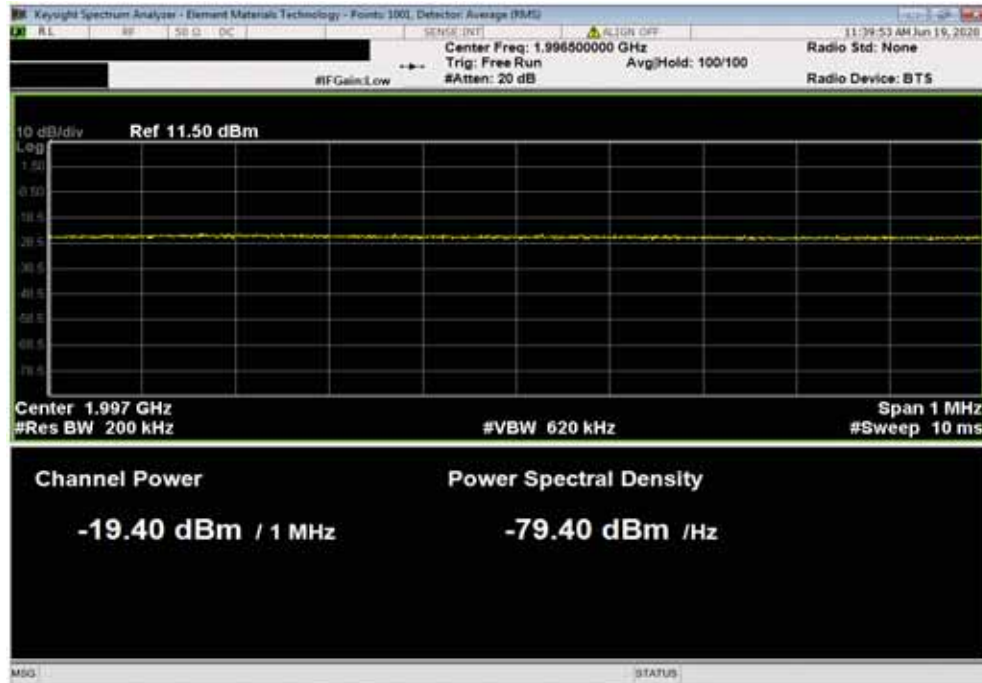


BAND EDGE COMPLIANCE - BAND n25

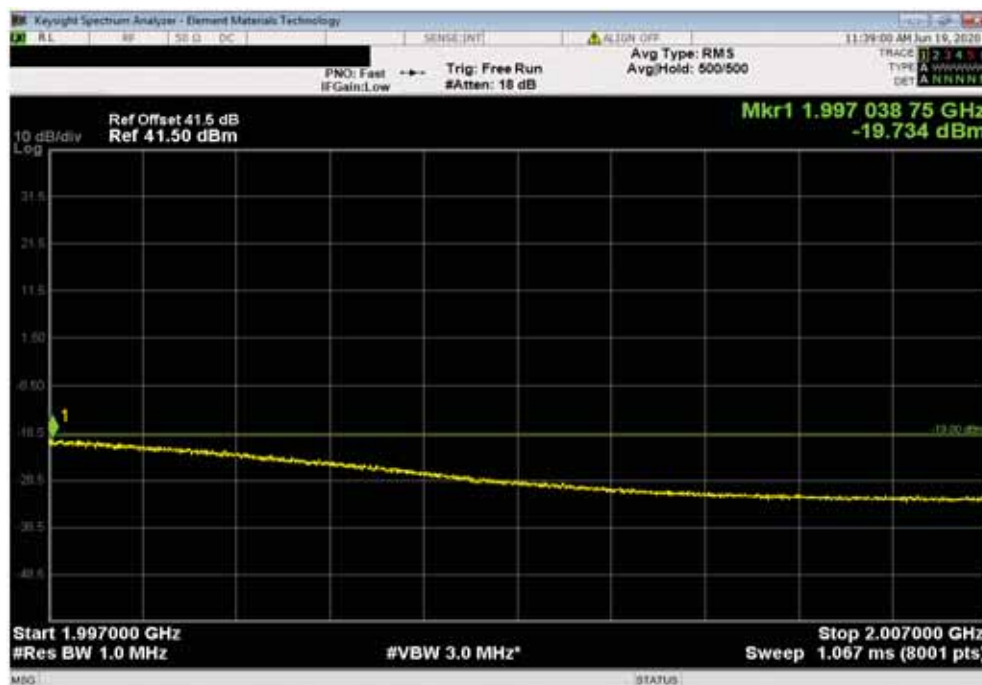


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 1985 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-19.40	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 1985 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.0	-19.73	-19	Pass		

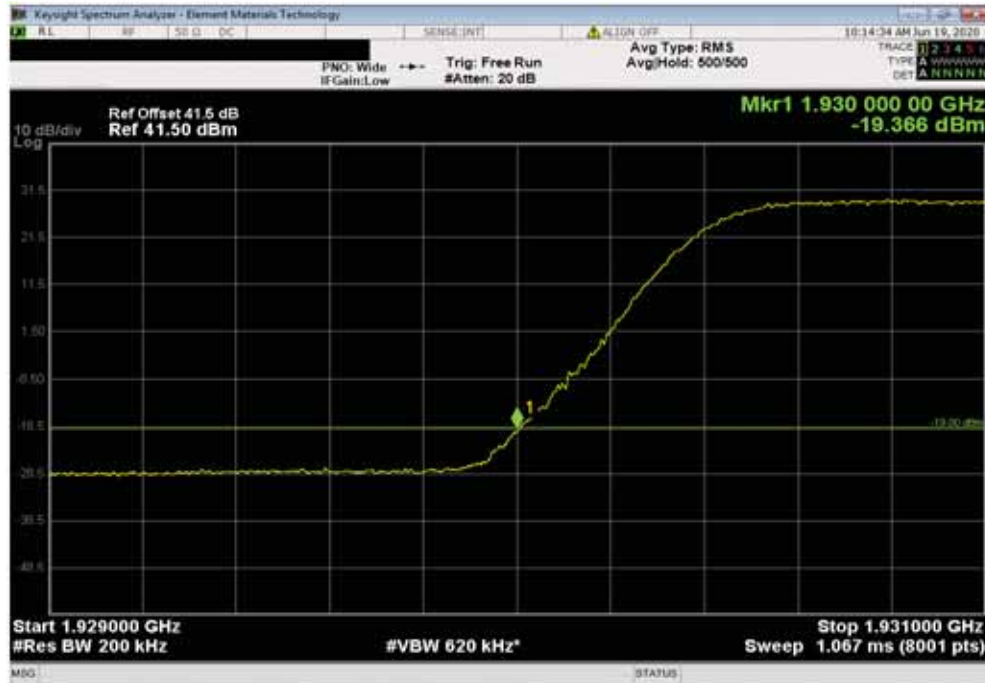


BAND EDGE COMPLIANCE - BAND n25

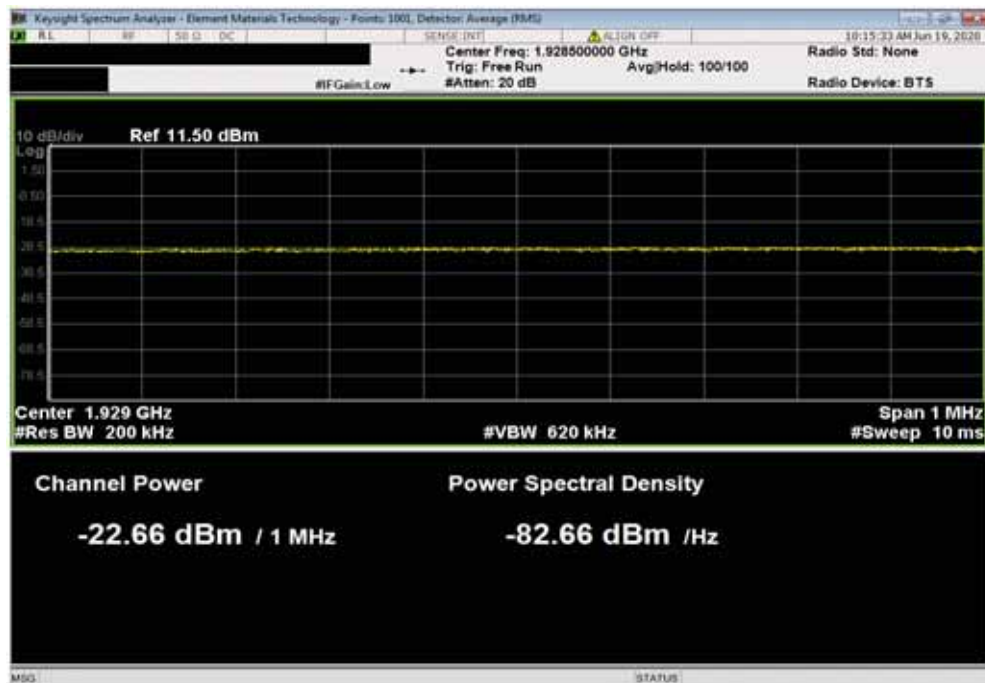


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1930.0	-19.37	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1928.5	-22.66	-19	Pass		

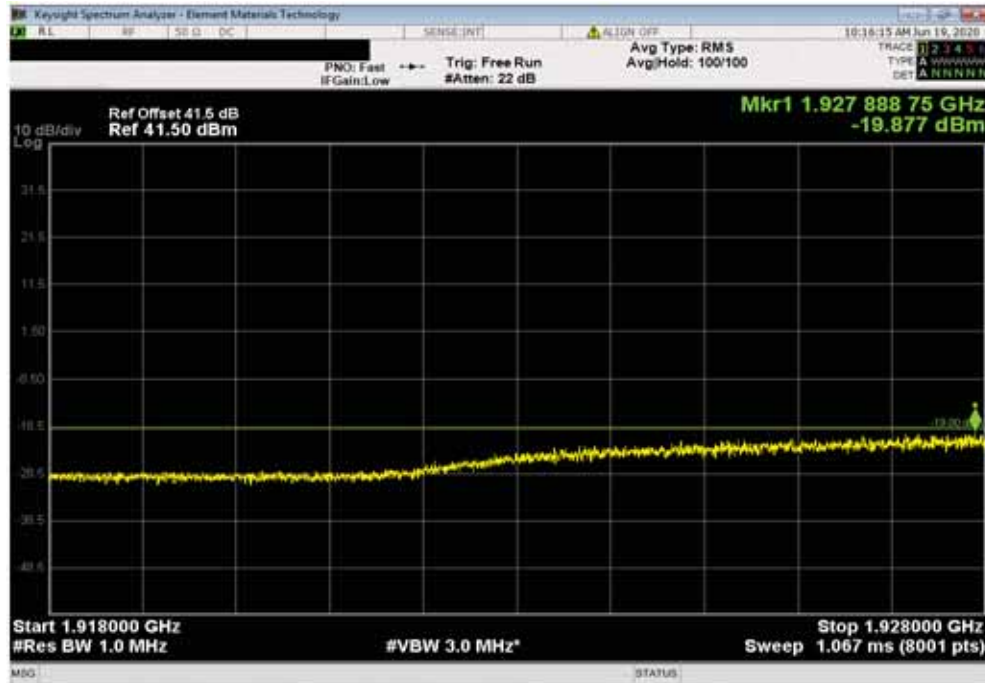


BAND EDGE COMPLIANCE - BAND n25

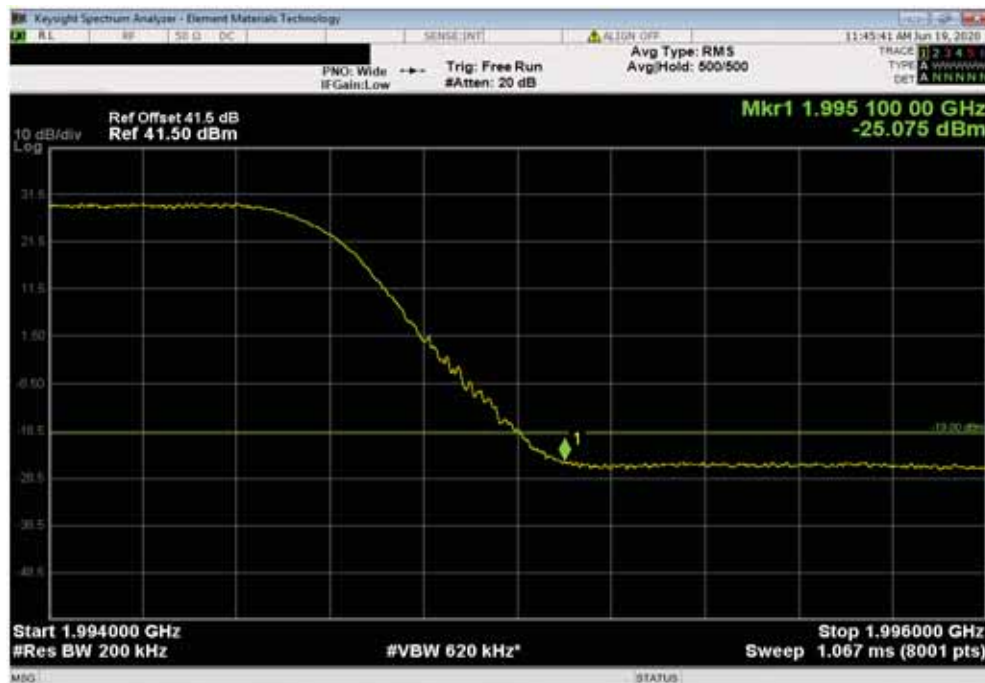


TbTx 2020.06.08.0 BETA XMit 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 1940 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1927.9	-19.88	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 1985 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
1	1995.1	-25.08	-19	Pass		

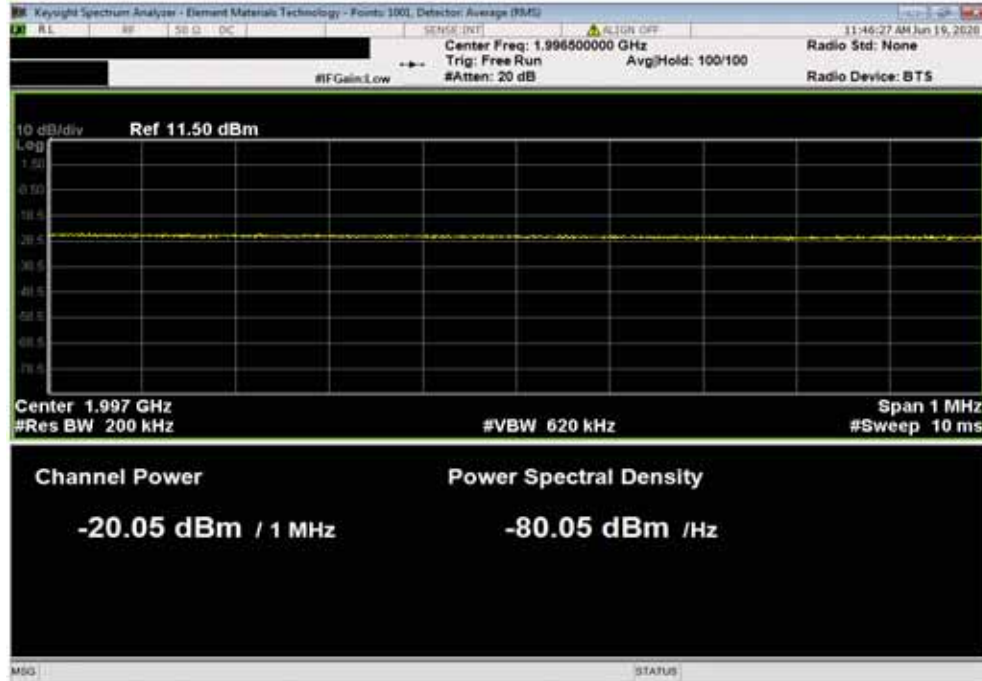


BAND EDGE COMPLIANCE - BAND n25



TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 1985 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
2	1996.5	-20.05	-19	Pass		



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 1985 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
3	1997.5	-19.53	-19	Pass		

