

BAND EDGE COMPLIANCE



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
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 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 $[-10 \cdot \log(16)]$ dB to account for the device operation as a 16 port MIMO transmitter, as per FCC KDB 622911.

Per FCC 24.238(a) and RSS 133 6.5.1 (i). the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -25 dBm $[-13 \text{ dBm} - 10 \log(16)]$ per FCC KDB 662911D01 v02r01 because the BTS may operate as a 16 port MIMO transmitter.

Per FCC 24.238(b) and RSS 133 6.5.1 (i). 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 (AAFB) as the original certification test. The AAFB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

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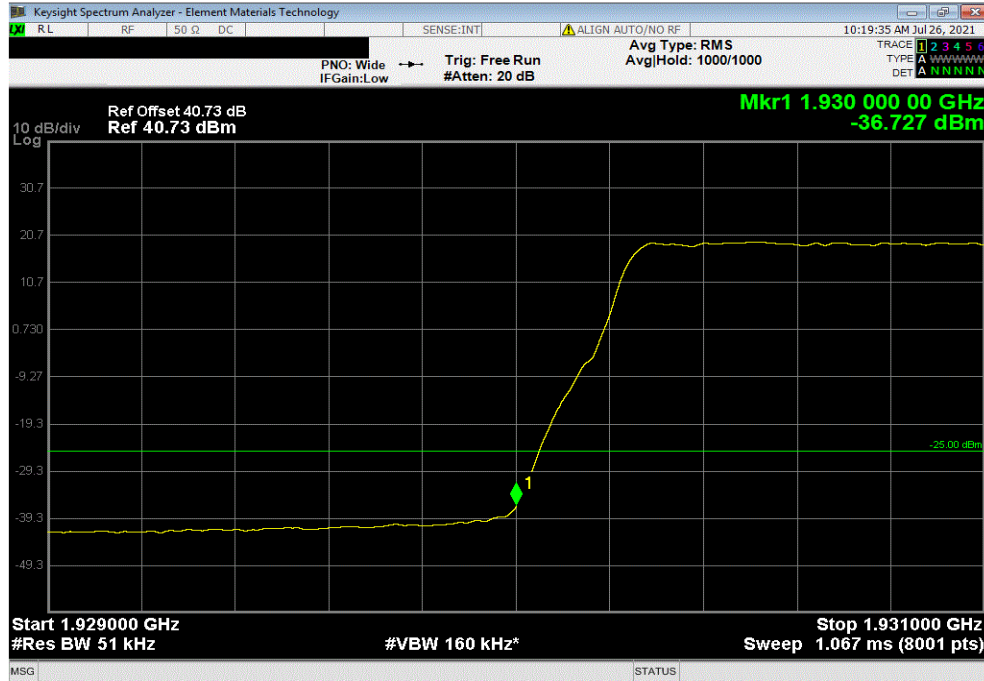
EUT: AAFB (FCC/ISED C2PC)		Work Order: NOKI0031			
Serial Number: BL2032H23PI		Date: 31-Jul-21			
Customer: Nokia Solutions and Networks		Temperature: 24 °C			
Attendees: David Le, Mitchell Hill		Humidity: 57% RH			
Project: None		Barometric Pres.: 1019 mbar			
Tested by: Brandon Hobbs		Power: 54 VDC			
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). Some measurement marker values were offset by RBW/2 from the band edge frequency as allowed by ANSI C63.26 clause 5.7.2 for some test cases.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	2				
		Frequency Range	Max Value (dBm)	Limit (dBm)	Result
Band n25, 1930 MHz - 1995 MHz, 5G					
Port 1					
5 MHz Bandwidth					
QPSK Modulation					
Low Channel, 1932.5 MHz		1	-36.7	-25	Pass
Low Channel, 1932.5 MHz		2	-30.2	-25	Pass
Low Channel, 1932.5 MHz		3	-29.9	-25	Pass
High Channel, 1992.5 MHz		1	-36.6	-25	Pass
High Channel, 1992.5 MHz		2	-30.8	-25	Pass
High Channel, 1992.5 MHz		3	-30.5	-25	Pass
16-QAM Modulation					
Low Channel, 1932.5 MHz		1	-37.0	-25	Pass
Low Channel, 1932.5 MHz		2	-30.1	-25	Pass
Low Channel, 1932.5 MHz		3	-29.8	-25	Pass
High Channel, 1992.5 MHz		1	-36.2	-25	Pass
High Channel, 1992.5 MHz		2	-30.7	-25	Pass
High Channel, 1992.5 MHz		3	-30.4	-25	Pass
64-QAM Modulation					
Low Channel, 1932.5 MHz		1	-37.1	-25	Pass
Low Channel, 1932.5 MHz		2	-30.2	-25	Pass
Low Channel, 1932.5 MHz		3	-29.9	-25	Pass
High Channel, 1992.5 MHz		1	-36.6	-25	Pass
High Channel, 1992.5 MHz		2	-30.7	-25	Pass
High Channel, 1992.5 MHz		3	-30.5	-25	Pass
256-QAM Modulation					
Low Channel, 1932.5 MHz		1	-37.3	-25	Pass
Low Channel, 1932.5 MHz		2	-30.1	-25	Pass
Low Channel, 1932.5 MHz		3	-30.2	-25	Pass
High Channel, 1992.5 MHz		1	-36.7	-25	Pass
High Channel, 1992.5 MHz		2	-30.7	-25	Pass
High Channel, 1992.5 MHz		3	-30.8	-25	Pass
10 MHz Bandwidth					
QPSK Modulation					
Low Channel, 1935.0 MHz		1	-36.9	-25	Pass
Low Channel, 1935.0 MHz		2	-30.5	-25	Pass
Low Channel, 1935.0 MHz		3	-30.0	-25	Pass
High Channel, 1990 MHz		1	-36.5	-25	Pass
High Channel, 1990 MHz		2	-30.8	-25	Pass
High Channel, 1990 MHz		3	-30.6	-25	Pass
16-QAM Modulation					
Low Channel, 1935.0 MHz		1	-36.7	-25	Pass
Low Channel, 1935.0 MHz		2	-30.6	-25	Pass
Low Channel, 1935.0 MHz		3	-30.3	-25	Pass
High Channel, 1990 MHz		1	-37.5	-25	Pass
High Channel, 1990 MHz		2	-31.1	-25	Pass
High Channel, 1990 MHz		3	-30.7	-25	Pass
64-QAM Modulation					
Low Channel, 1935.0 MHz		1	-36.7	-25	Pass
Low Channel, 1935.0 MHz		2	-30.6	-25	Pass
Low Channel, 1935.0 MHz		3	-30.0	-25	Pass
High Channel, 1990 MHz		1	-37.1	-25	Pass
High Channel, 1990 MHz		2	-30.9	-25	Pass
High Channel, 1990 MHz		3	-30.6	-25	Pass
256-QAM Modulation					
Low Channel, 1935.0 MHz		1	-37.0	-25	Pass
Low Channel, 1935.0 MHz		2	-30.6	-25	Pass
Low Channel, 1935.0 MHz		3	-30.1	-25	Pass
High Channel, 1990 MHz		1	-36.9	-25	Pass
High Channel, 1990 MHz		2	-30.9	-25	Pass
High Channel, 1990 MHz		3	-30.6	-25	Pass
15 MHz Bandwidth					
QPSK Modulation					
Low Channel, 1937.5 MHz		1	-33.7	-25	Pass
Low Channel, 1937.5 MHz		2	-30.7	-25	Pass
Low Channel, 1937.5 MHz		3	-30.5	-25	Pass
High Channel, 1987.5 MHz		1	-33.7	-25	Pass
High Channel, 1987.5 MHz		2	-30.9	-25	Pass
High Channel, 1987.5 MHz		3	-31.7	-25	Pass
16-QAM Modulation					
Low Channel, 1937.5 MHz		1	-33.7	-25	Pass
Low Channel, 1937.5 MHz		2	-30.6	-25	Pass
Low Channel, 1937.5 MHz		3	-30.6	-25	Pass
High Channel, 1987.5 MHz		1	-32.8	-25	Pass
High Channel, 1987.5 MHz		2	-30.9	-25	Pass
High Channel, 1987.5 MHz		3	-30.4	-25	Pass
64-QAM Modulation					
Low Channel, 1937.5 MHz		1	-33.3	-25	Pass
Low Channel, 1937.5 MHz		2	-30.9	-25	Pass
Low Channel, 1937.5 MHz		3	-30.7	-25	Pass
High Channel, 1987.5 MHz		1	-33.6	-25	Pass
High Channel, 1987.5 MHz		2	-30.7	-25	Pass
High Channel, 1987.5 MHz		3	-30.5	-25	Pass
256-QAM Modulation					
Low Channel, 1937.5 MHz		1	-33.9	-25	Pass
Low Channel, 1937.5 MHz		2	-30.6	-25	Pass
Low Channel, 1937.5 MHz		3	-30.4	-25	Pass
High Channel, 1987.5 MHz		1	-33.4	-25	Pass
High Channel, 1987.5 MHz		2	-30.9	-25	Pass
High Channel, 1987.5 MHz		3	-30.5	-25	Pass
20 MHz Bandwidth					
QPSK Modulation					
Low Channel, 1940 MHz		1	-31.2	-25	Pass
Low Channel, 1940 MHz		2	-31.3	-25	Pass
Low Channel, 1940 MHz		3	-30.7	-25	Pass
High Channel, 1985 MHz		1	-31.9	-25	Pass
High Channel, 1985 MHz		2	-31.4	-25	Pass
High Channel, 1985 MHz		3	-30.8	-25	Pass
16-QAM Modulation					
Low Channel, 1940 MHz		1	-31.2	-25	Pass
Low Channel, 1940 MHz		2	-31.3	-25	Pass
Low Channel, 1940 MHz		3	-30.5	-25	Pass
High Channel, 1985 MHz		1	-30.5	-25	Pass
High Channel, 1985 MHz		2	-31.4	-25	Pass
High Channel, 1985 MHz		3	-30.8	-25	Pass
64-QAM Modulation					
Low Channel, 1940 MHz		1	-31.4	-25	Pass
Low Channel, 1940 MHz		2	-31.3	-25	Pass
Low Channel, 1940 MHz		3	-30.7	-25	Pass
High Channel, 1985 MHz		1	-30.6	-25	Pass
High Channel, 1985 MHz		2	-31.4	-25	Pass
High Channel, 1985 MHz		3	-30.6	-25	Pass
256-QAM Modulation					
Low Channel, 1940 MHz		1	-31.2	-25	Pass
Low Channel, 1940 MHz		2	-31.2	-25	Pass
Low Channel, 1940 MHz		3	-30.8	-25	Pass
High Channel, 1985 MHz		1	-31.4	-25	Pass
High Channel, 1985 MHz		2	-31.4	-25	Pass
High Channel, 1985 MHz		3	-30.8	-25	Pass

BAND EDGE COMPLIANCE

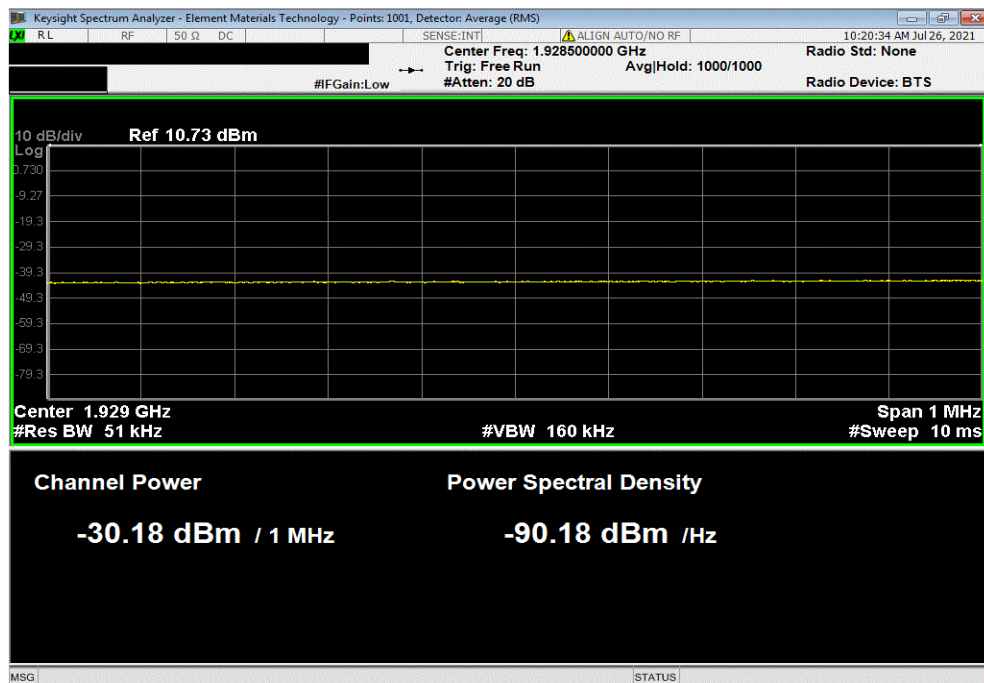


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , Low Channel, 1932.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-36.73		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , Low Channel, 1932.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.18		-25		Pass

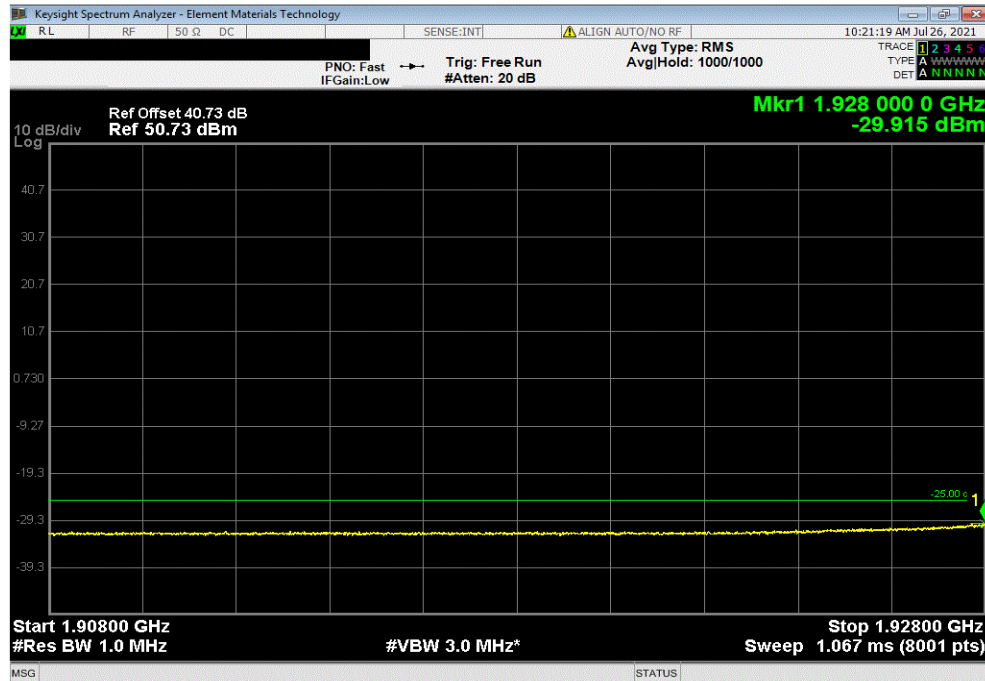


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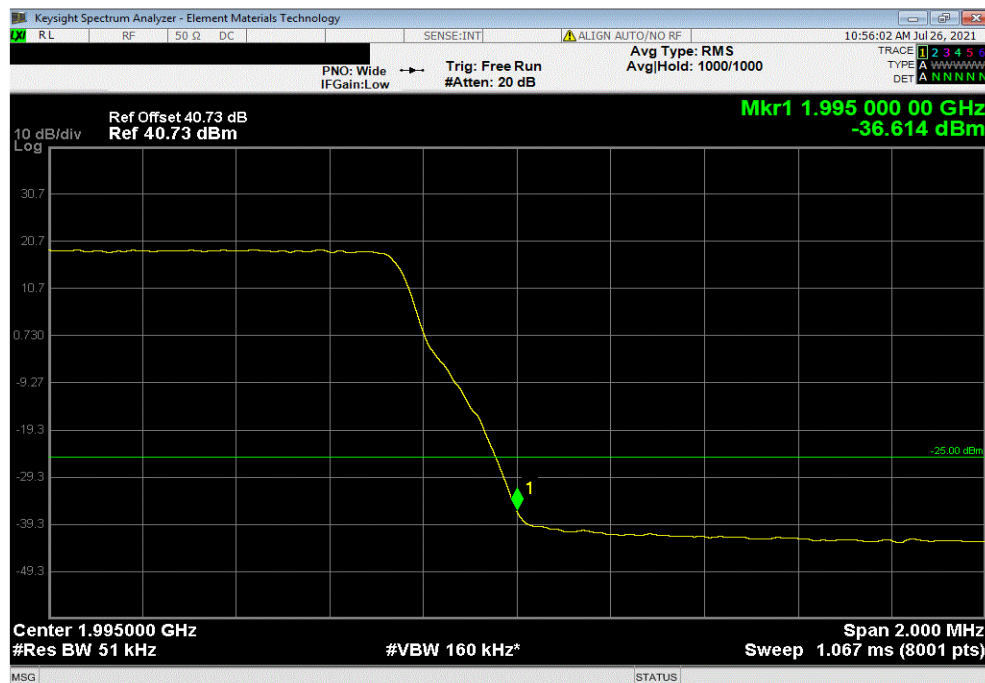


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Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.92	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-36.61	-25	Pass			

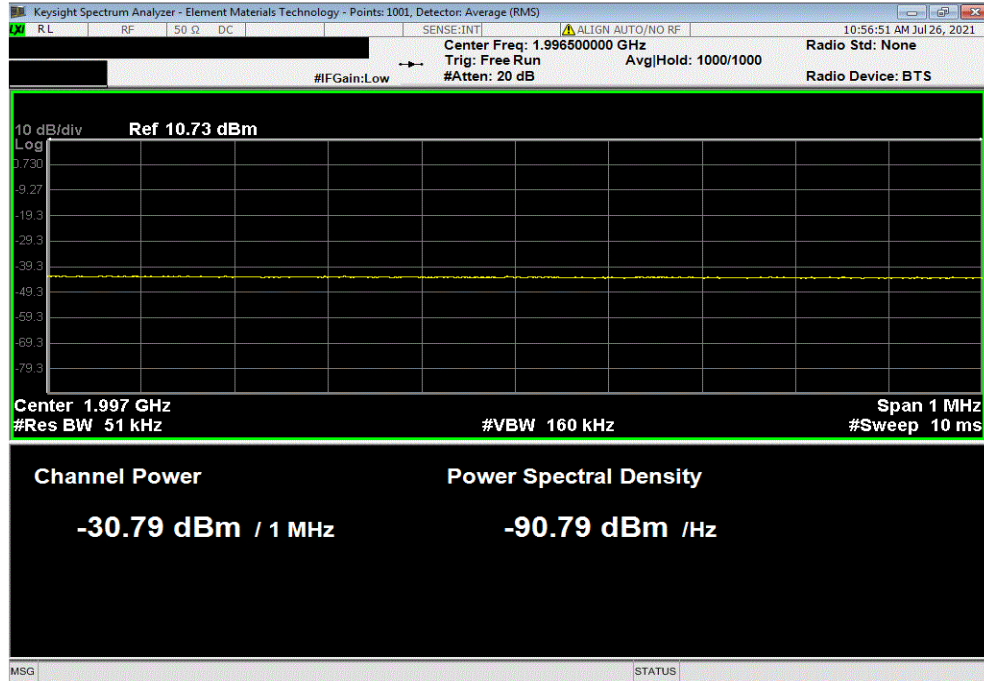


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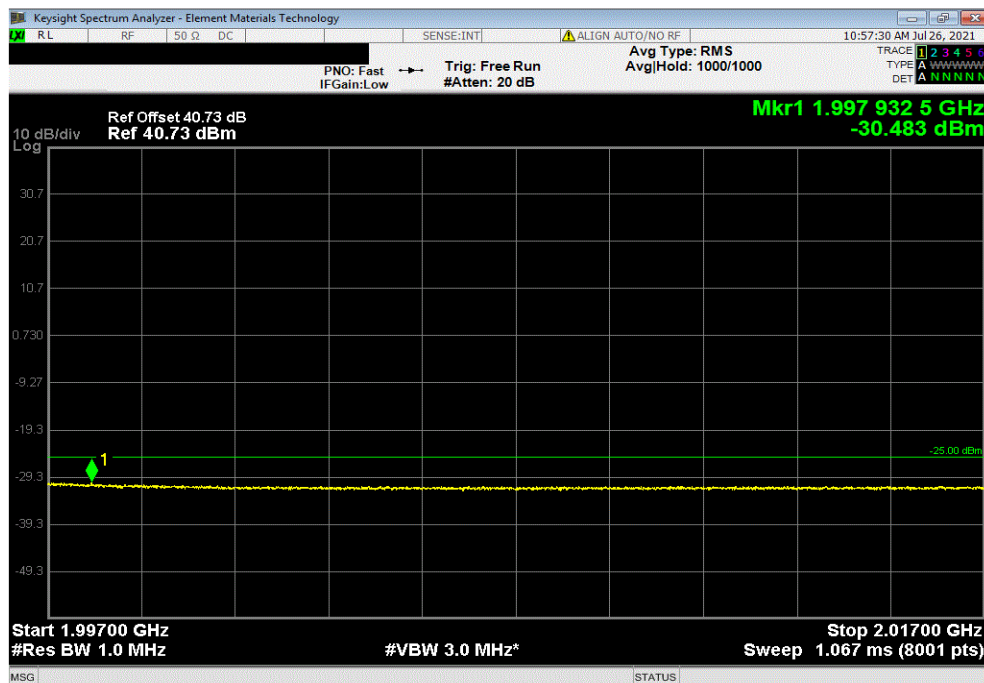


TbTtX 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.79	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, QPSK Modulation , High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.48	-25	Pass			

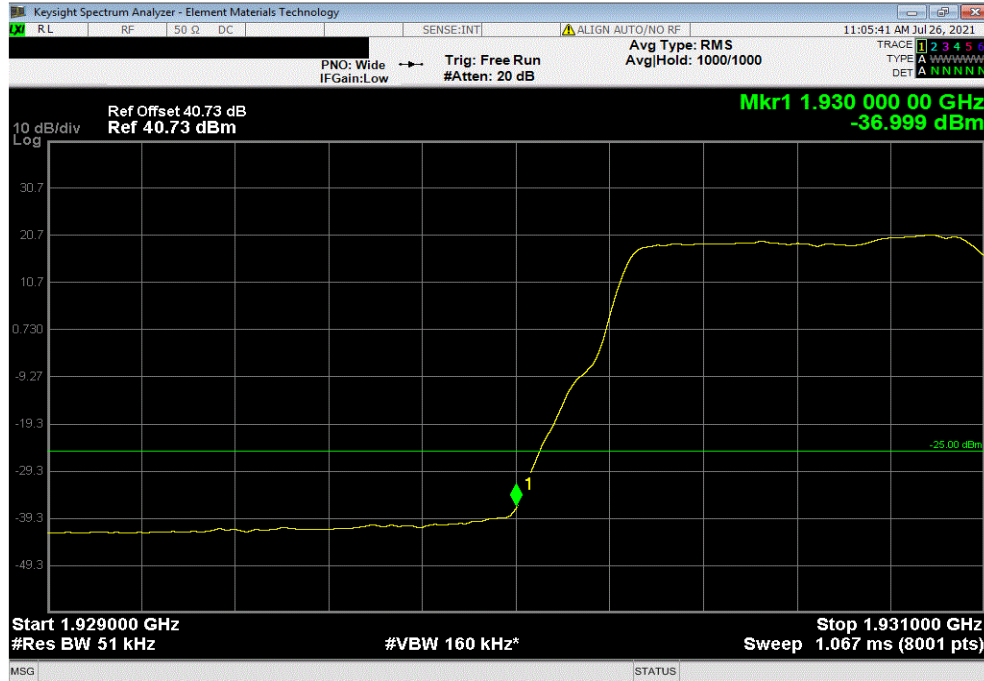


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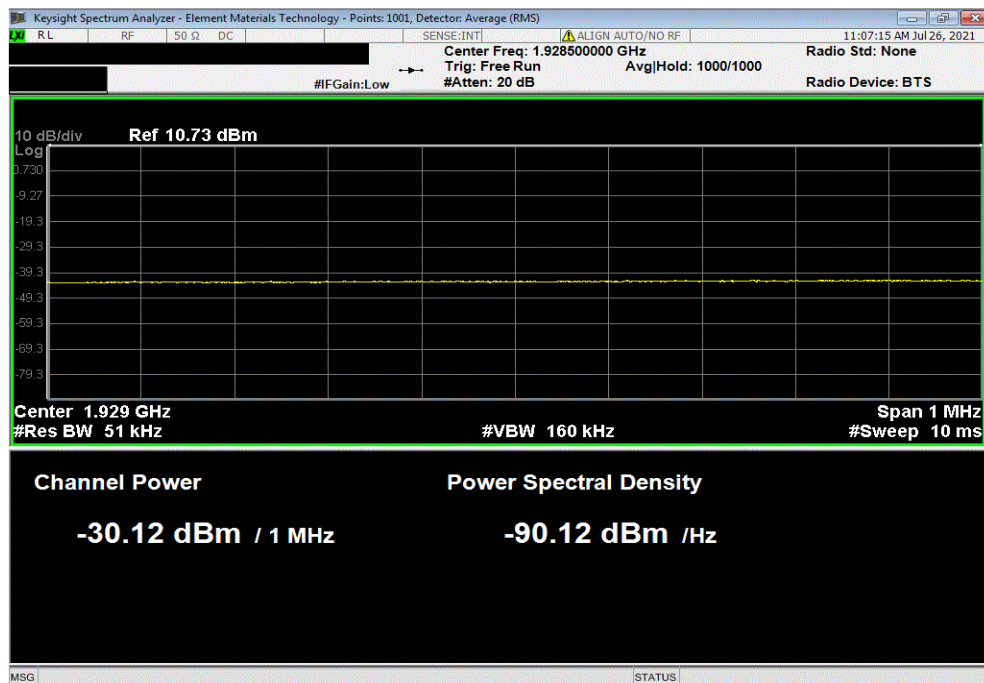


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-37		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.12		-25		Pass

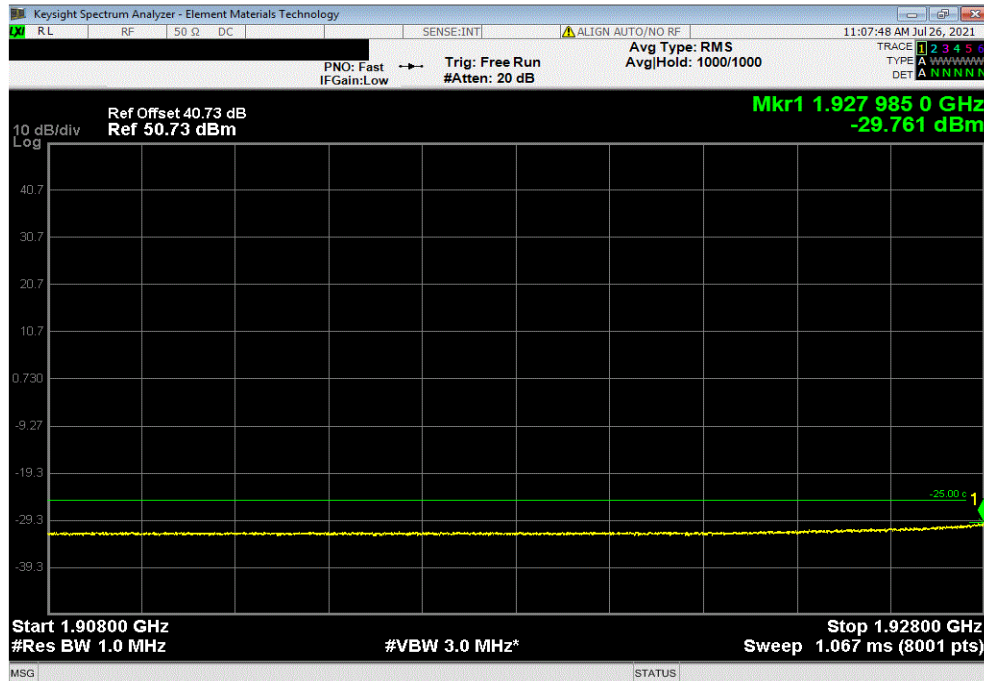


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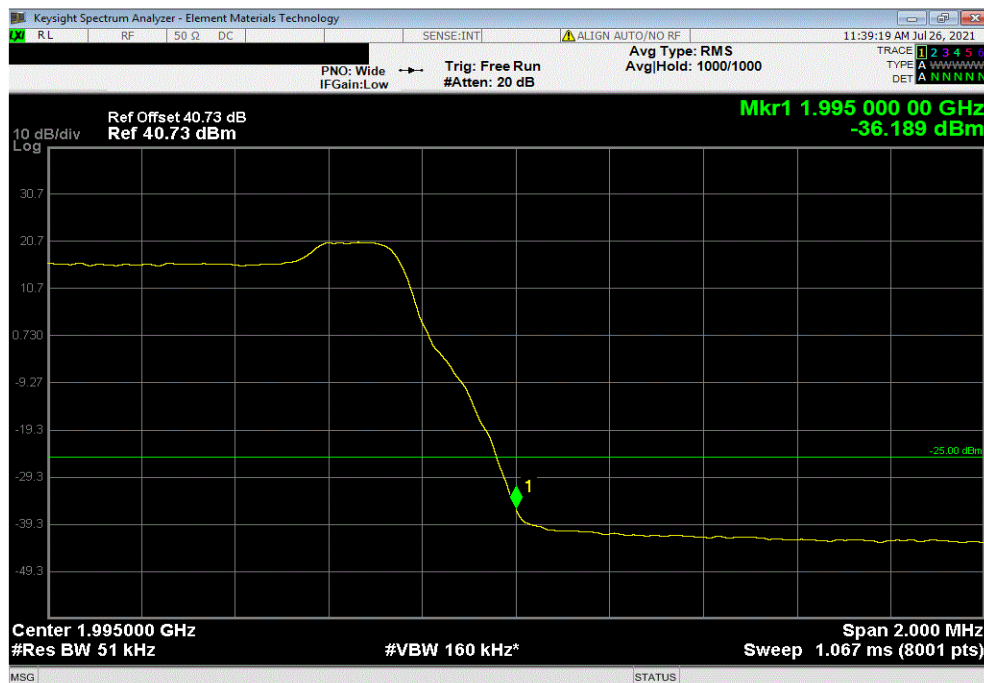


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.76	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-36.19	-25	Pass			

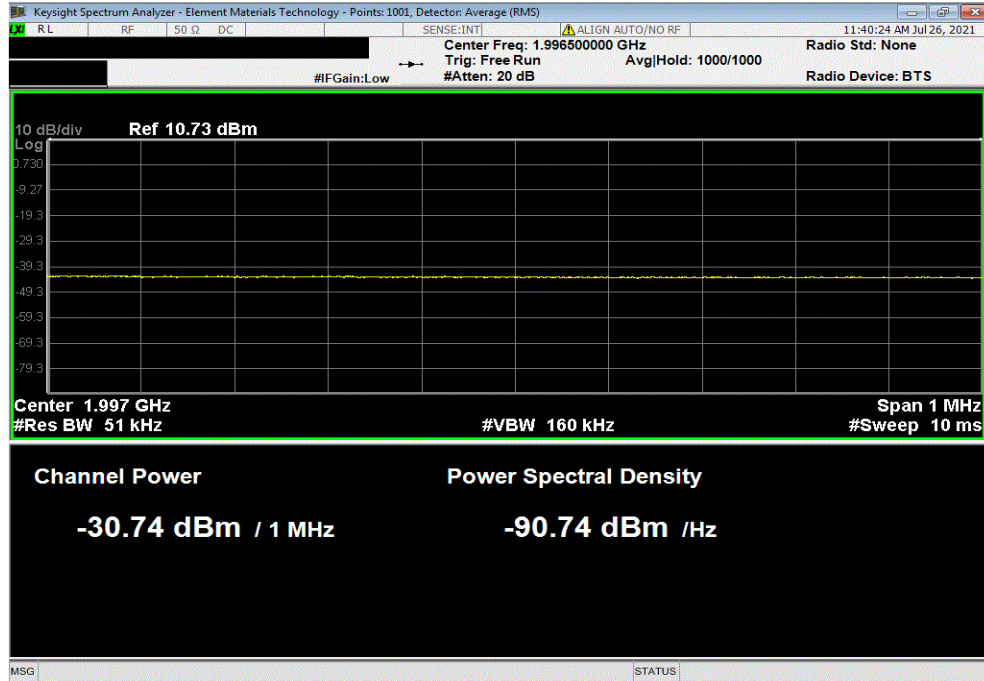


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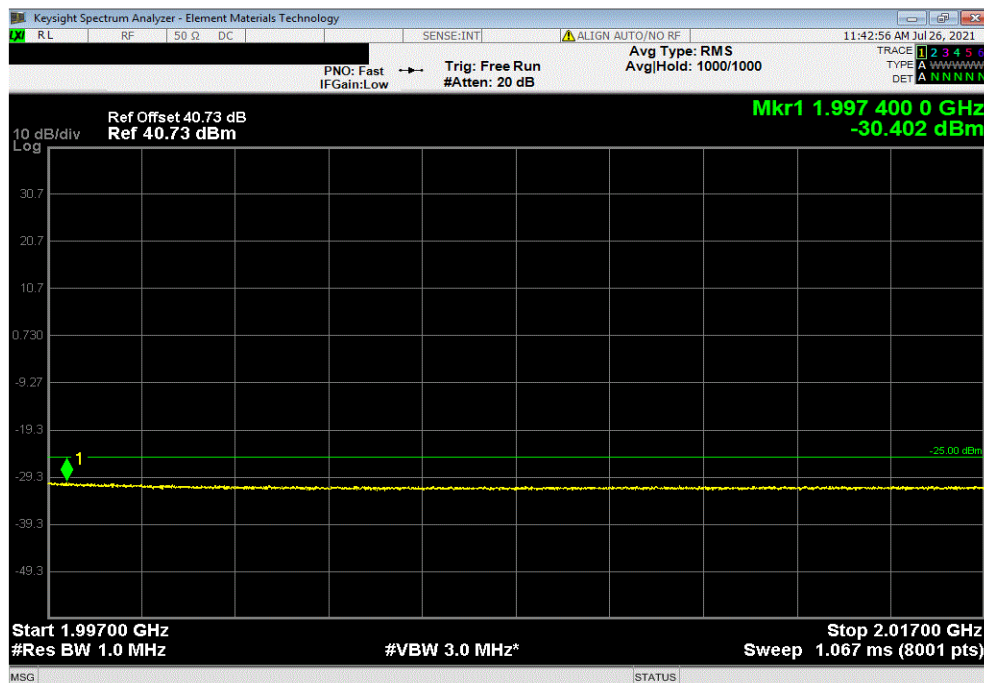


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.74		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-30.4		-25		Pass

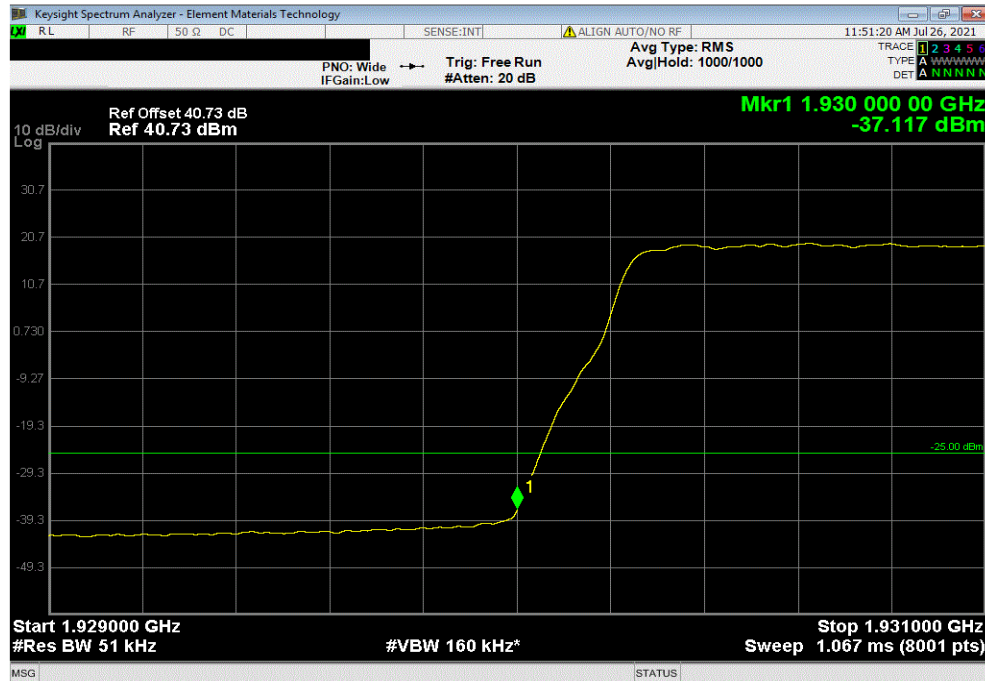


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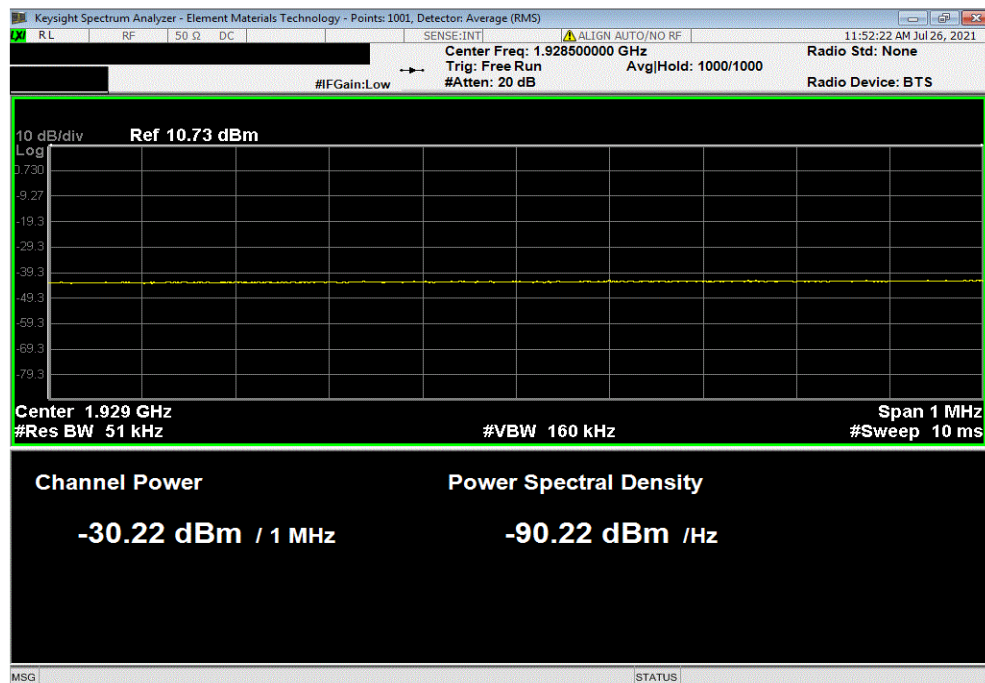


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-37.12		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.22		-25		Pass

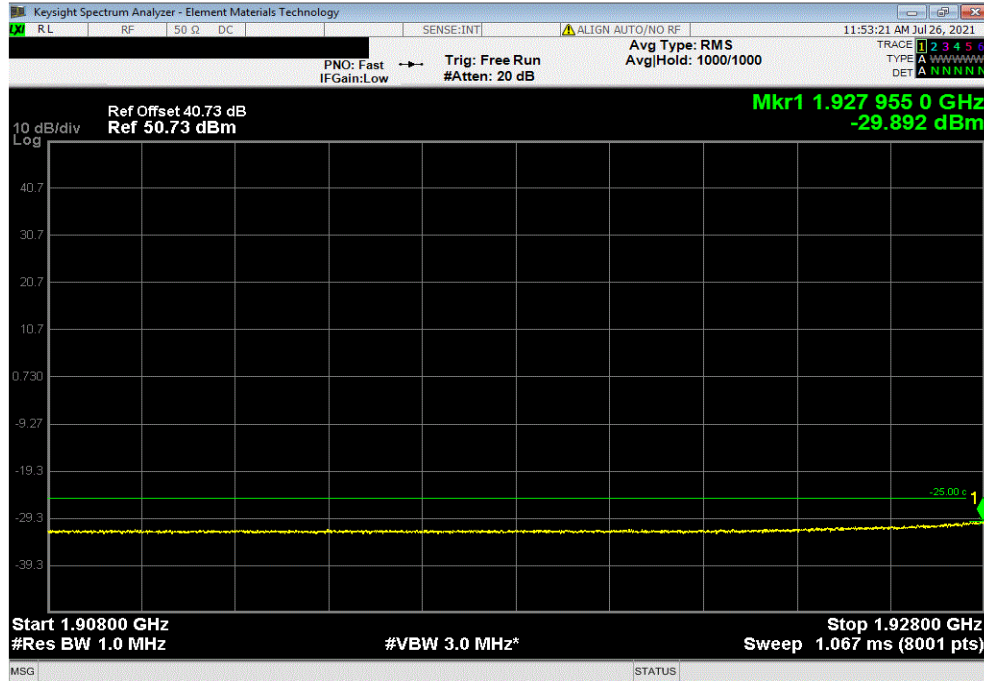


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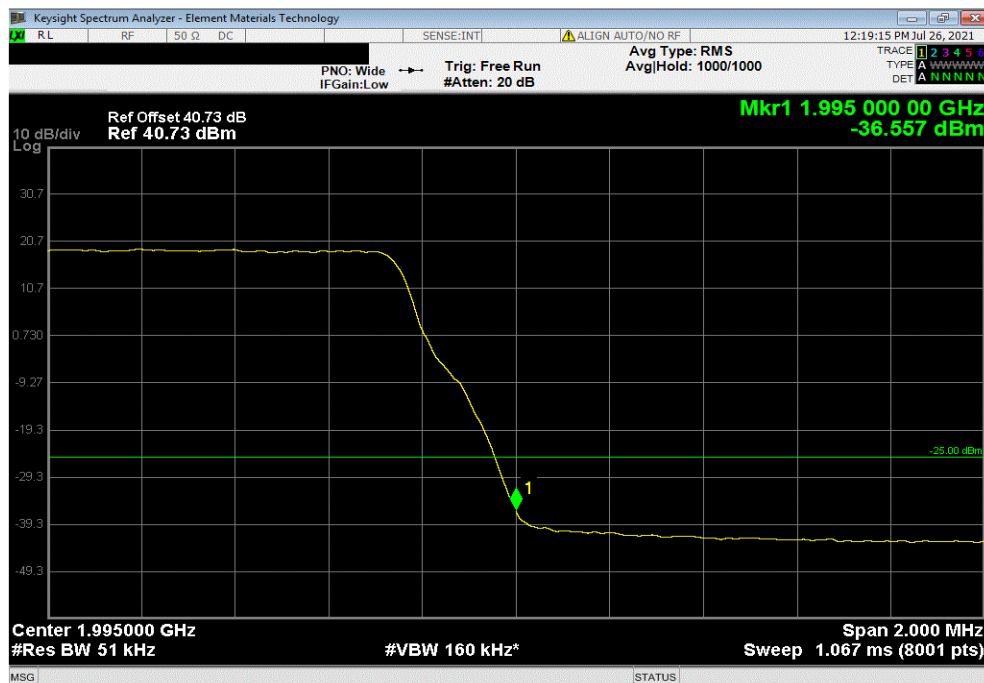


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.89	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-36.56	-25	Pass			

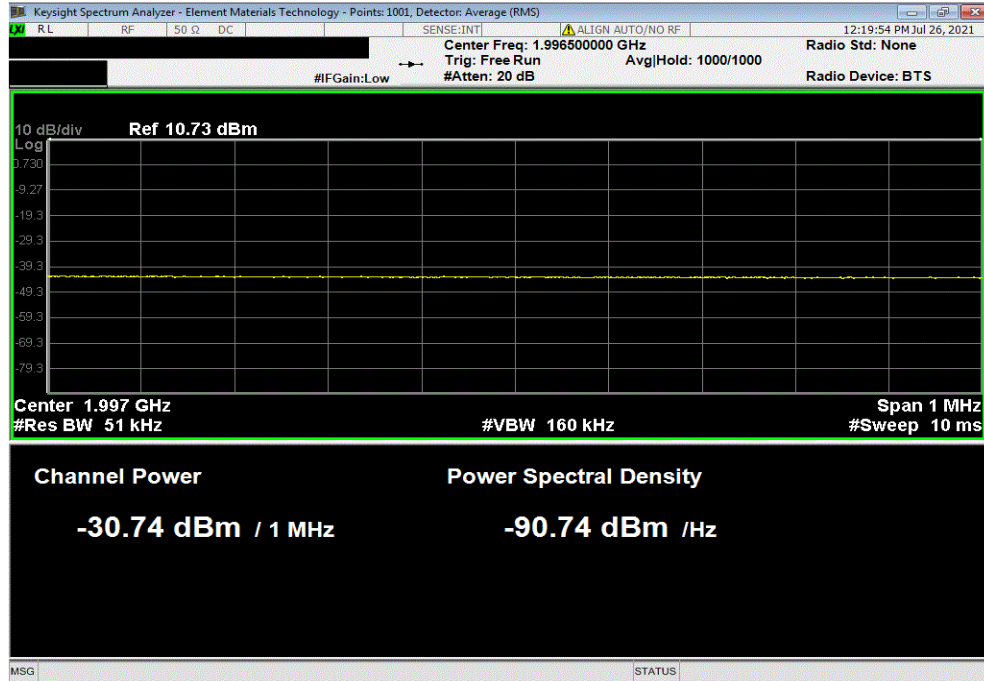


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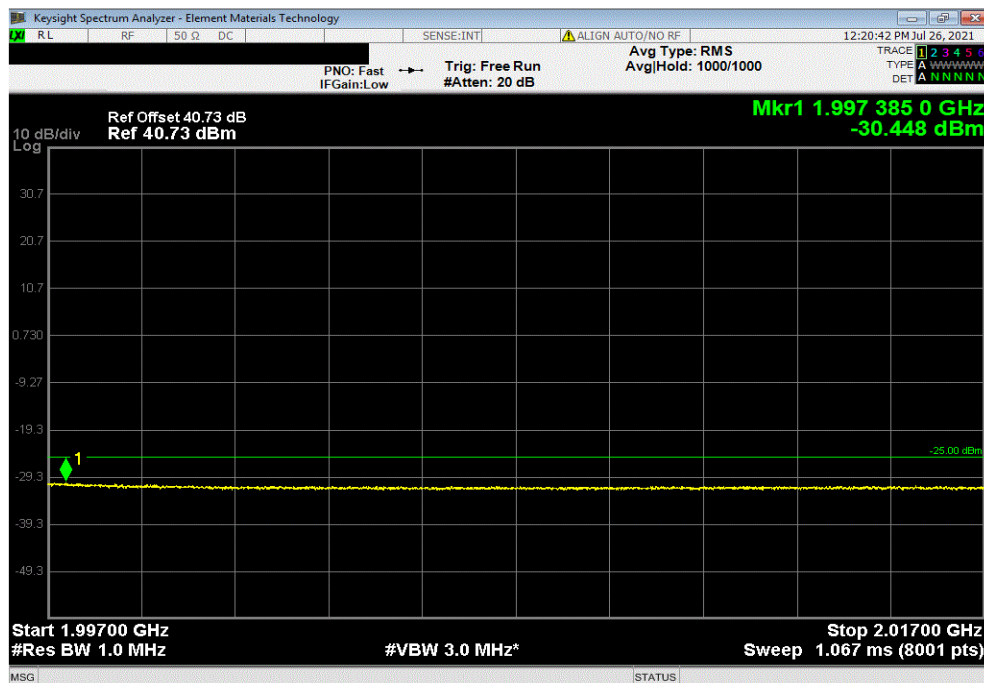


TbTx 2021.03.19.1 XM8 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.74	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.45	-25	Pass			

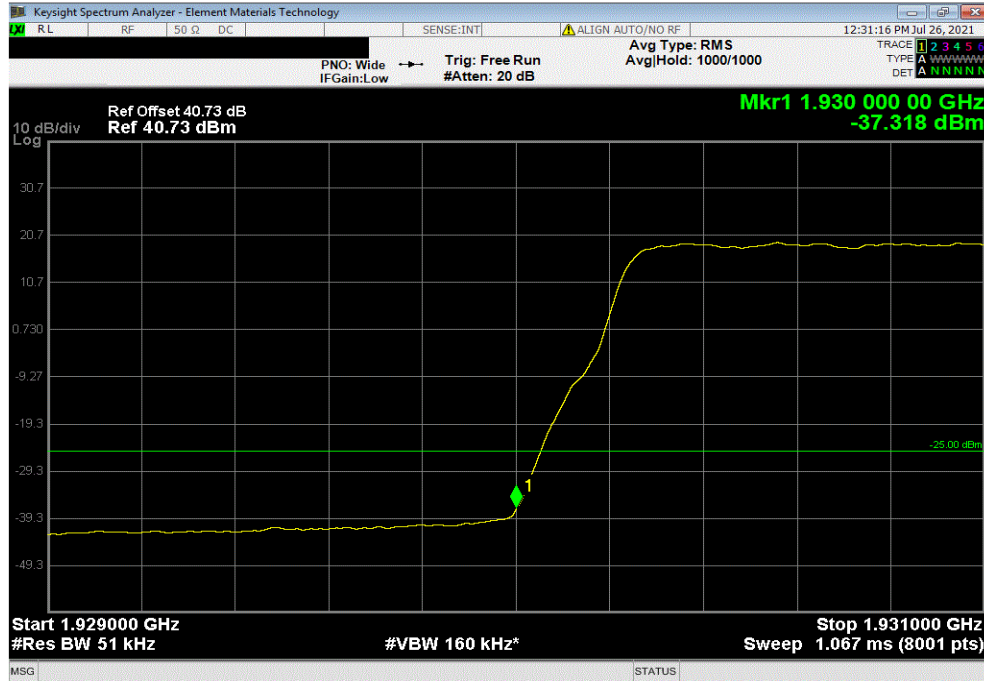


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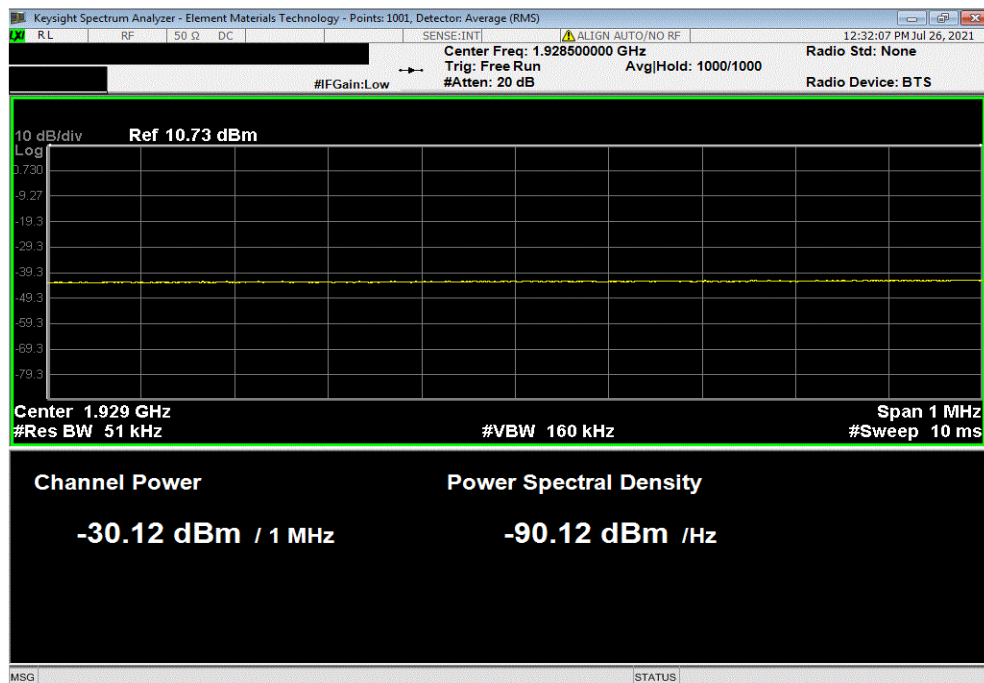


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-37.32	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.12	-25	Pass			

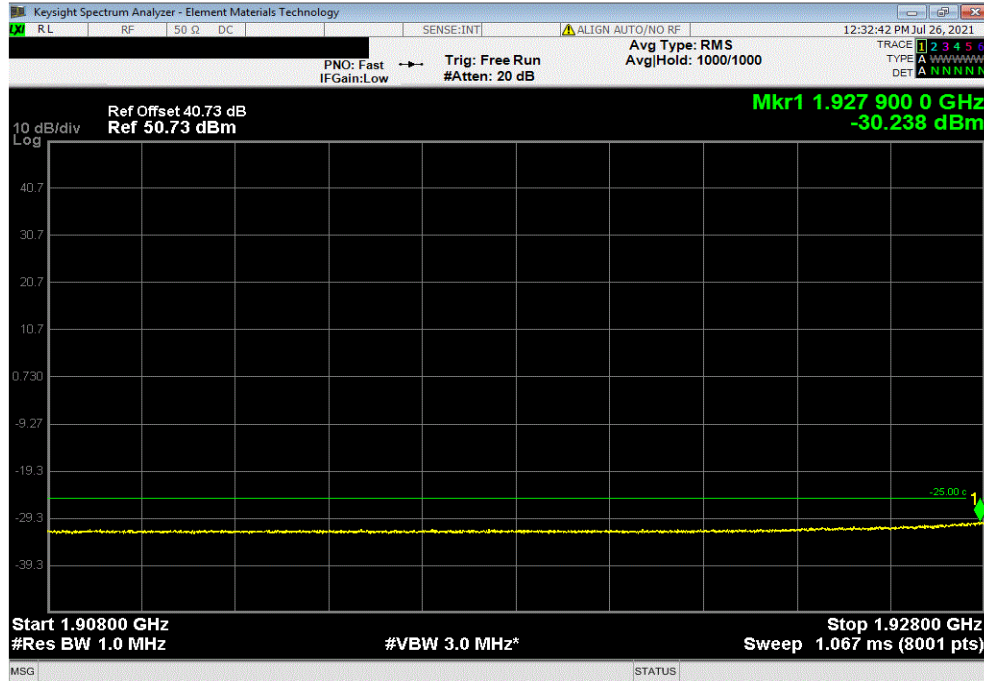


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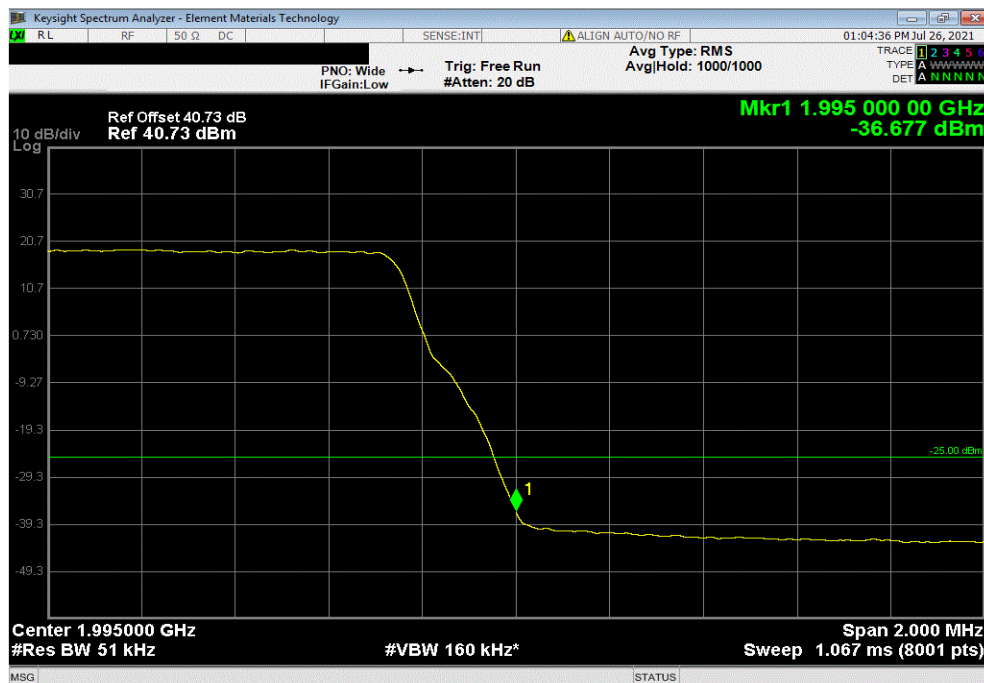


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.24	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-36.68	-25	Pass			

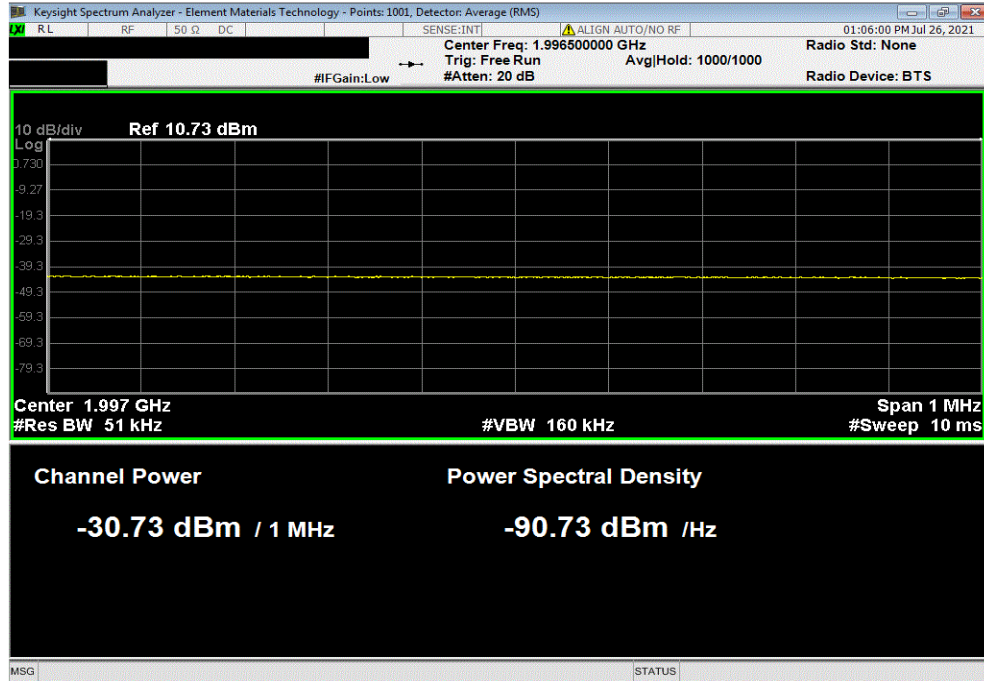


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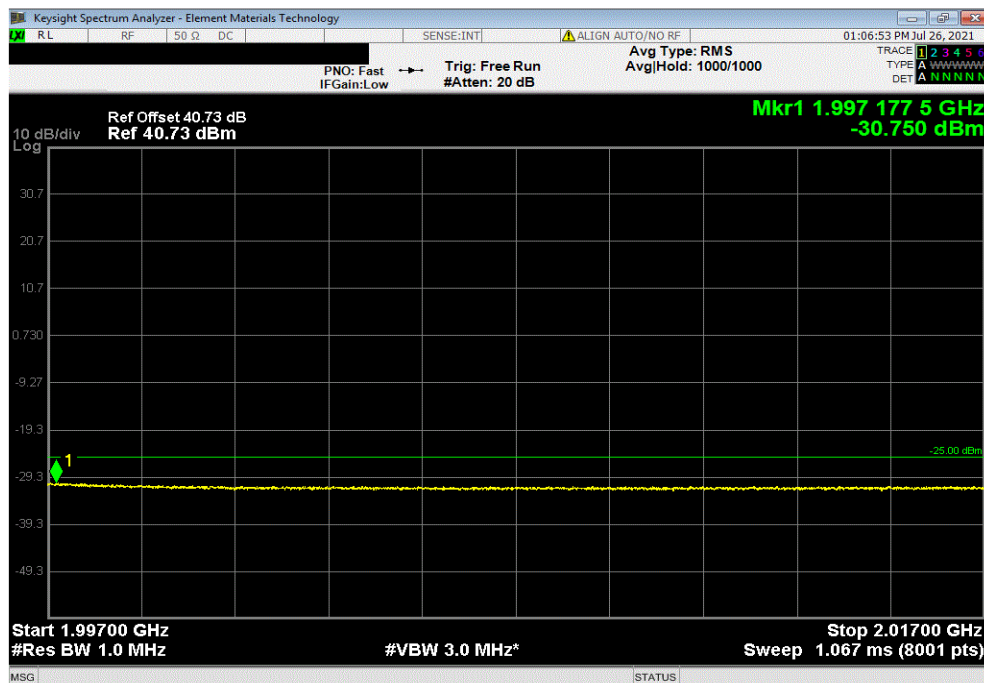


TbTtx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.73		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-30.75		-25		Pass

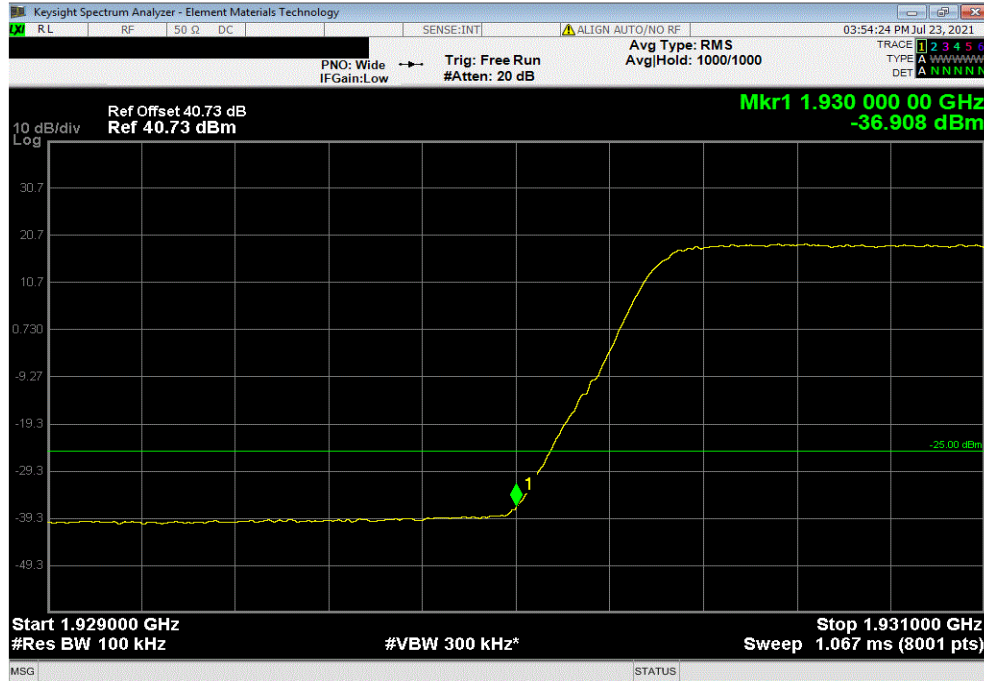


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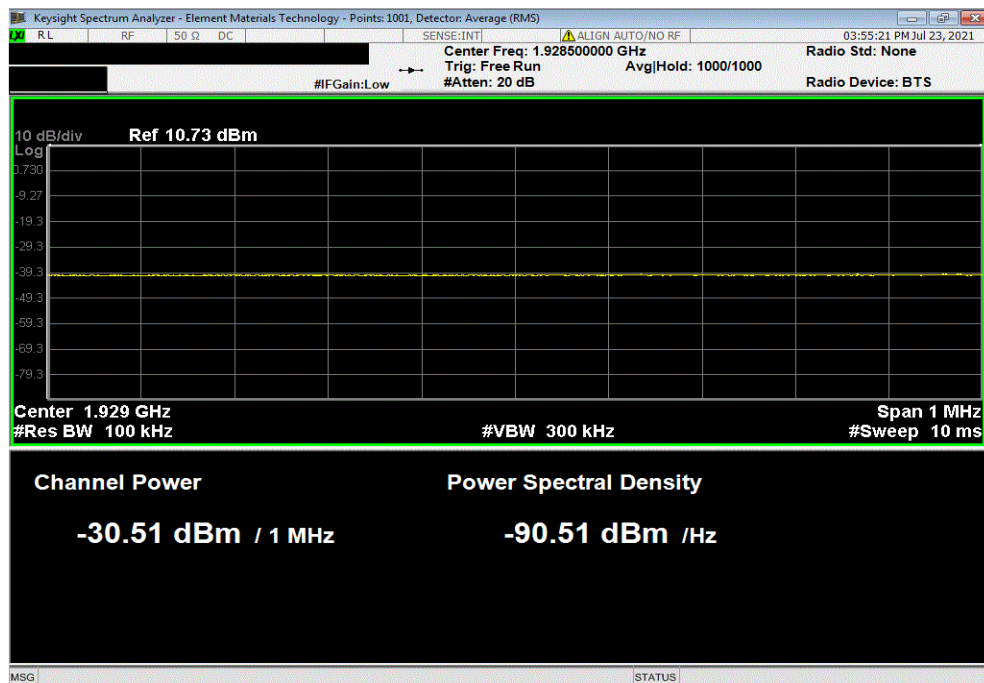


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 1935.0 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-36.91	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 1935.0 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.51	-25	Pass			

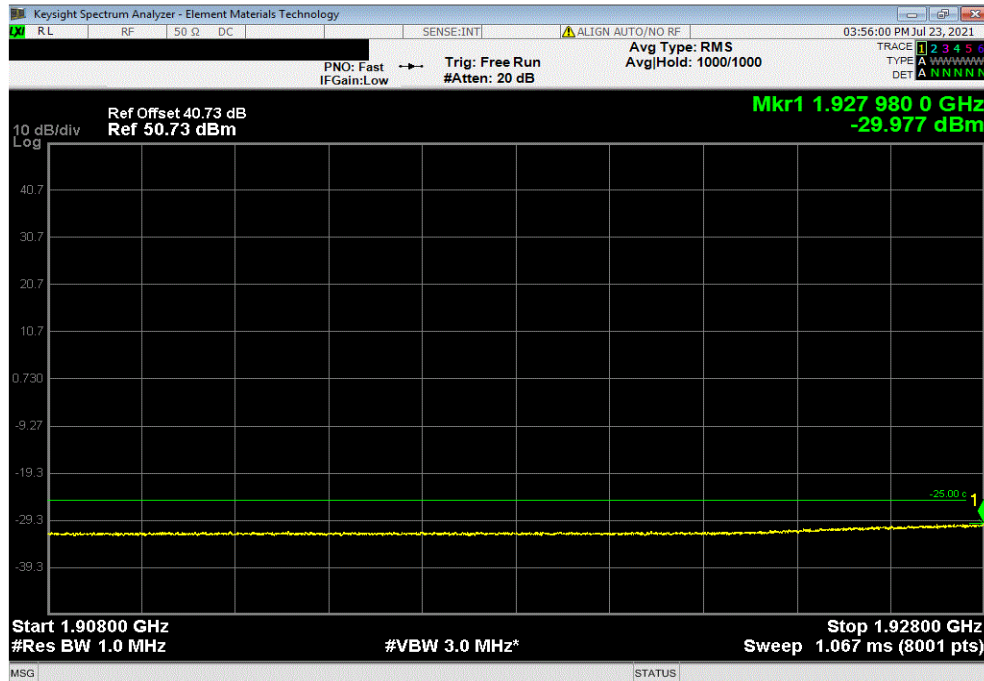


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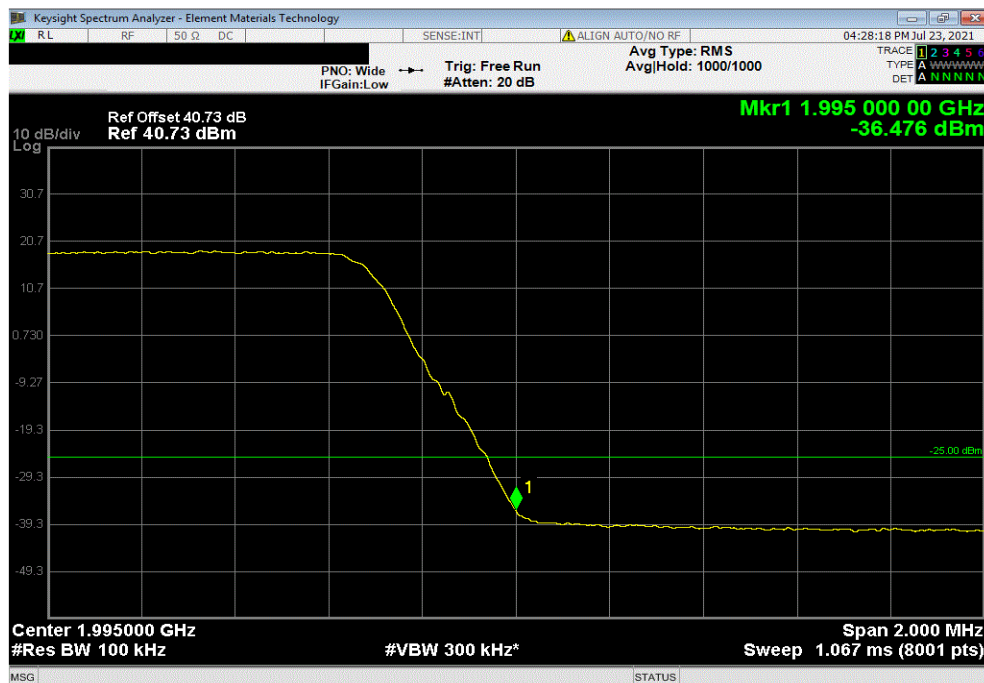


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 1935.0 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.98	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, QPSK Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-36.48	-25	Pass			

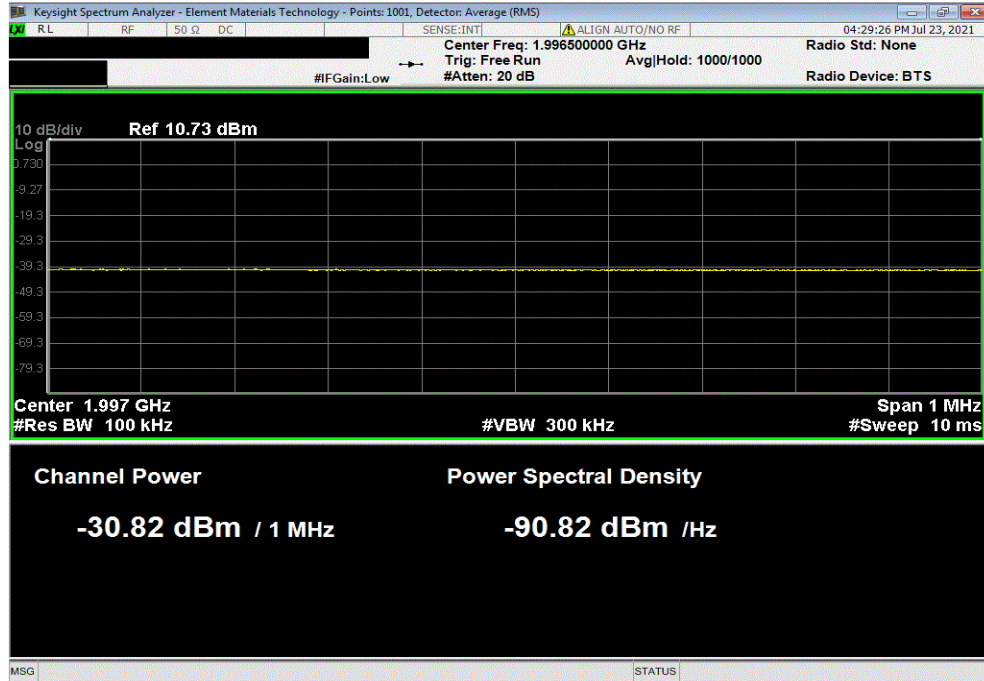


BAND EDGE COMPLIANCE

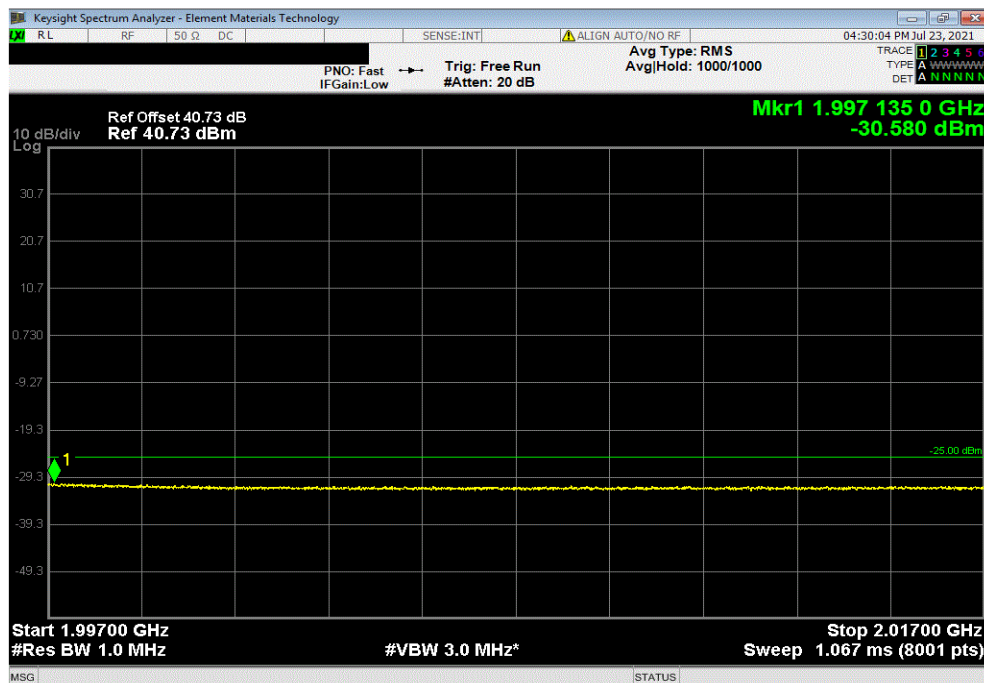


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, QPSK Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.82	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, QPSK Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.58	-25	Pass			

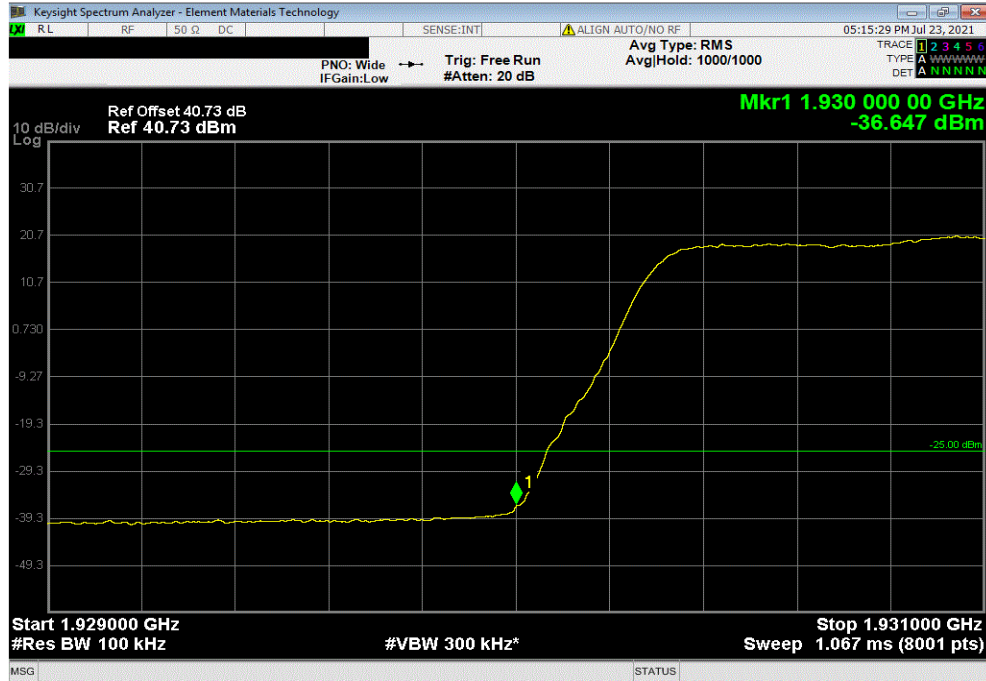


BAND EDGE COMPLIANCE

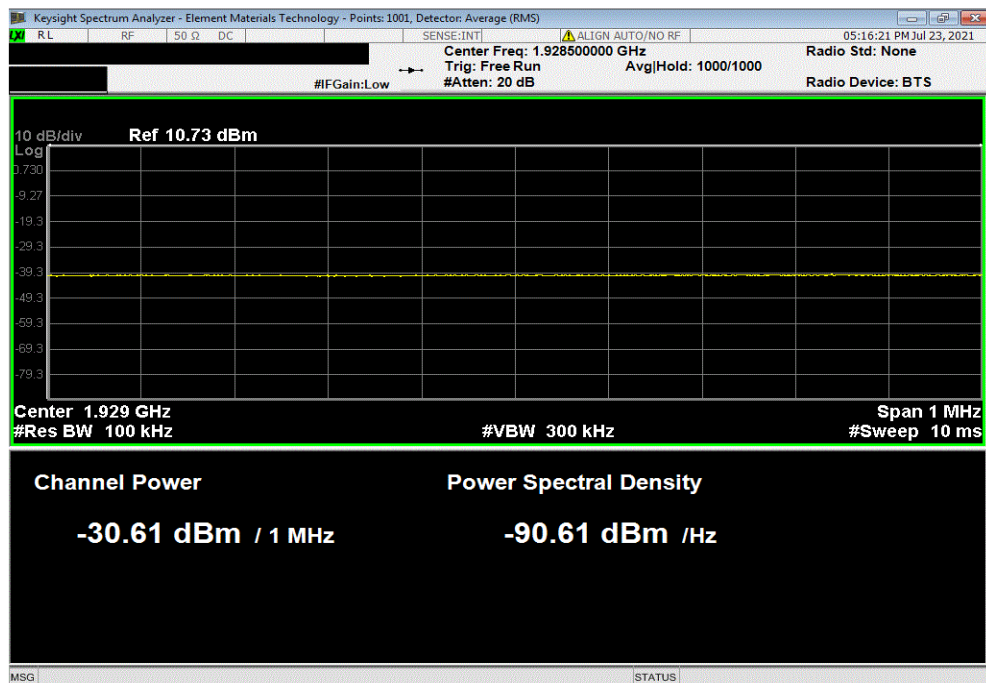


TbTx 2021.03.19.1 XM8 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1935.0 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-36.65	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1935.0 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.61	-25	Pass			

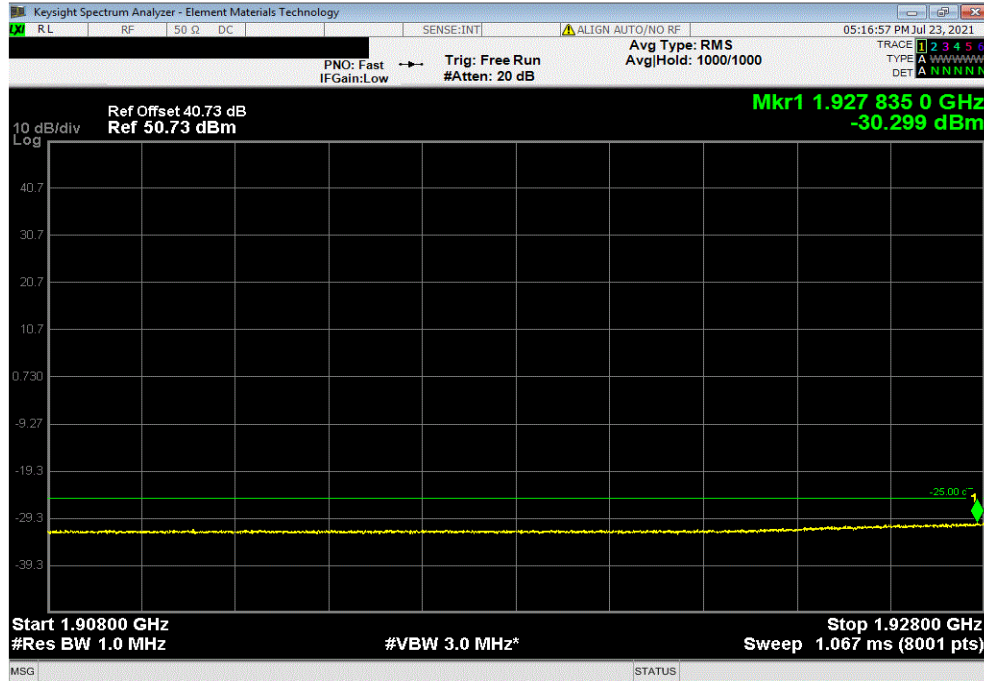


BAND EDGE COMPLIANCE

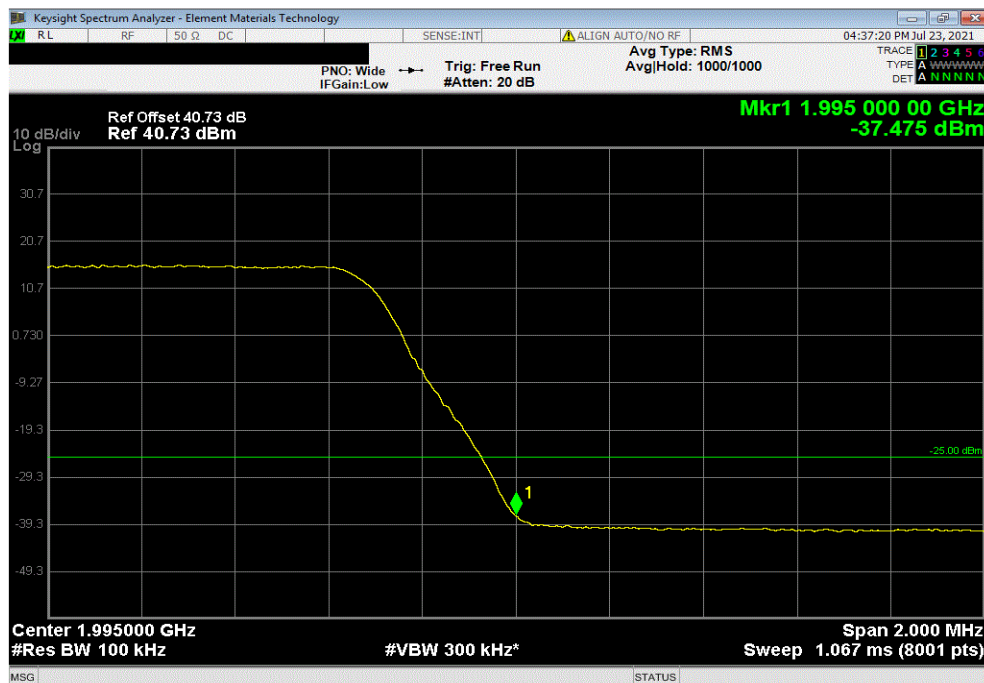


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1935.0 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.3	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 16-QAM Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-37.48	-25	Pass			

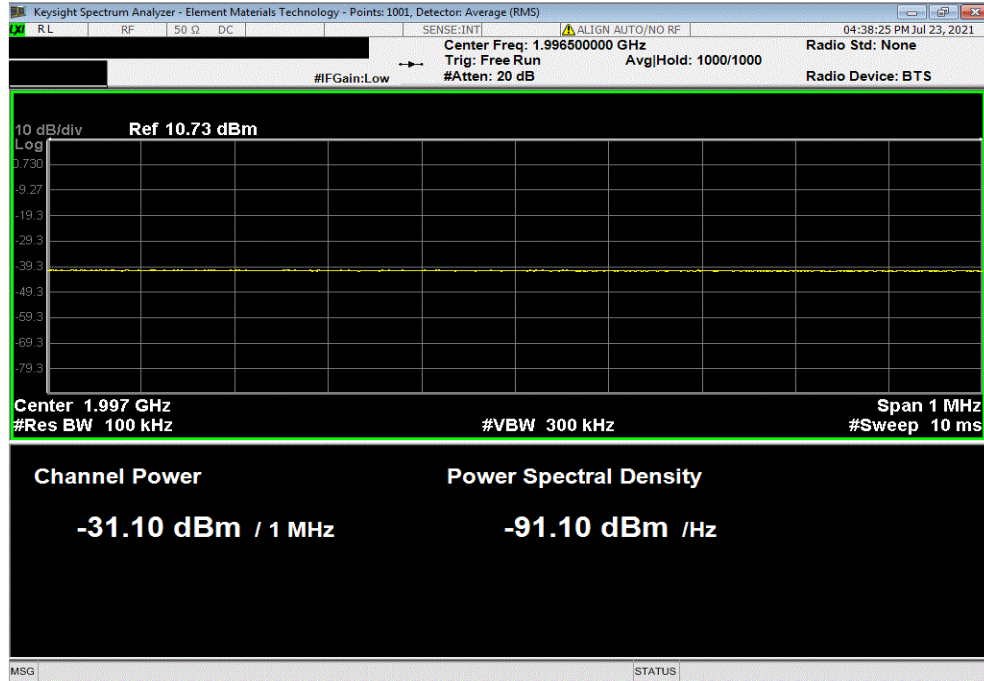


BAND EDGE COMPLIANCE

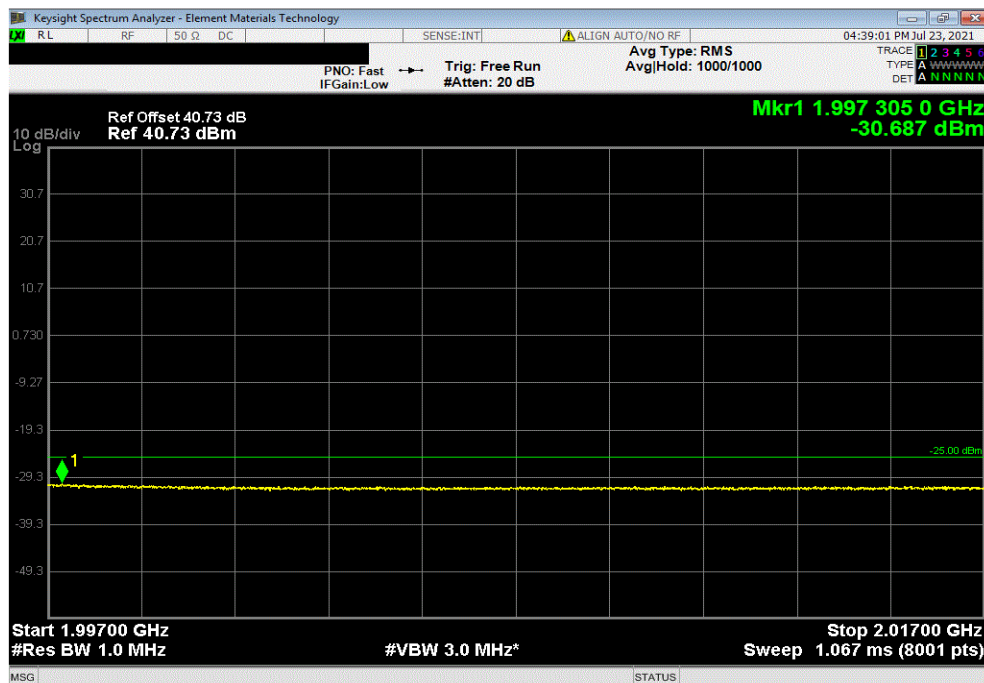


TbTtx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 16-QAM Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-31.10	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 16-QAM Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.69	-25	Pass			

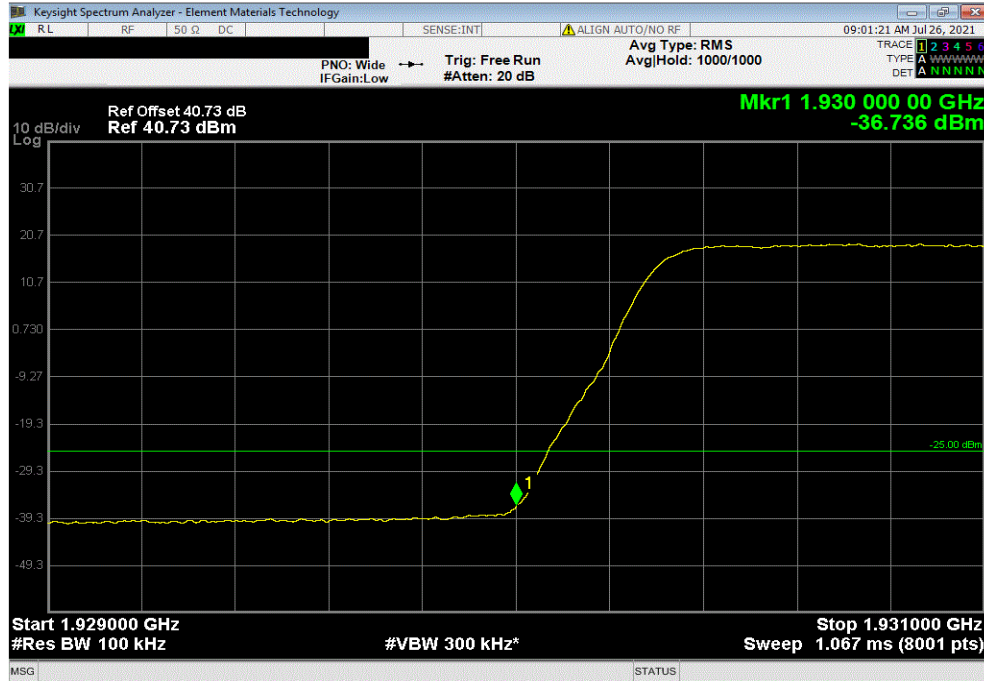


BAND EDGE COMPLIANCE

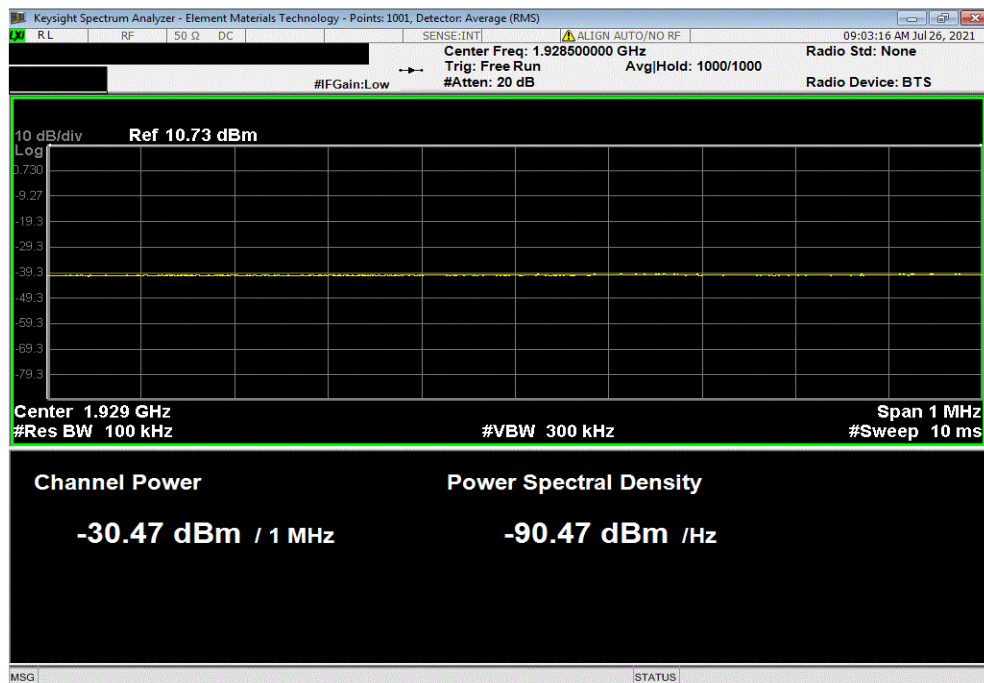


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1935.0 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-36.74	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1935.0 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.47	-25	Pass			

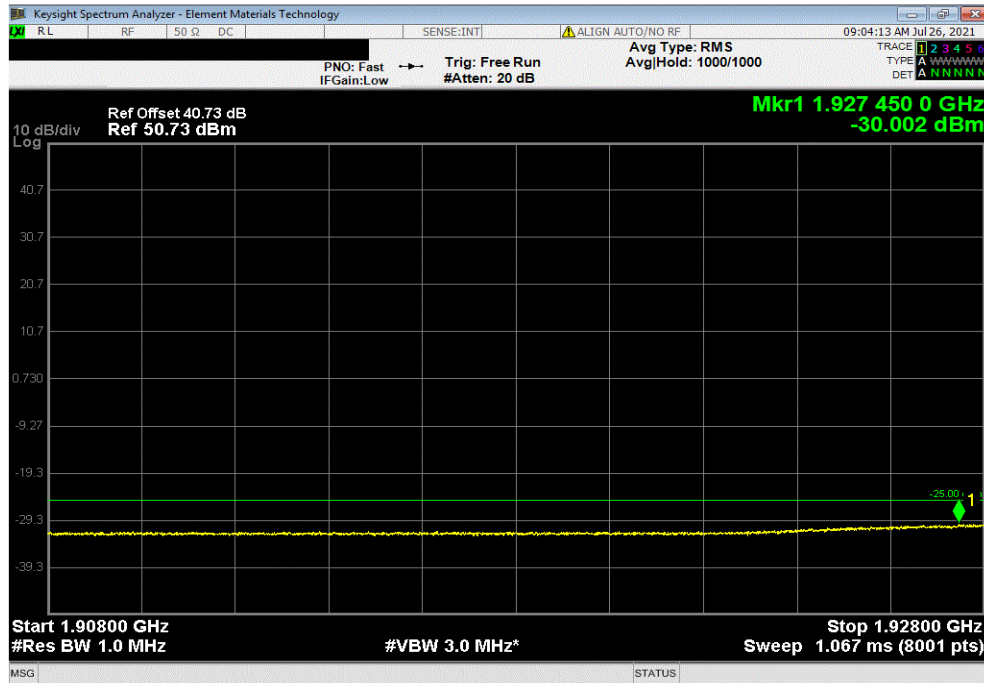


BAND EDGE COMPLIANCE

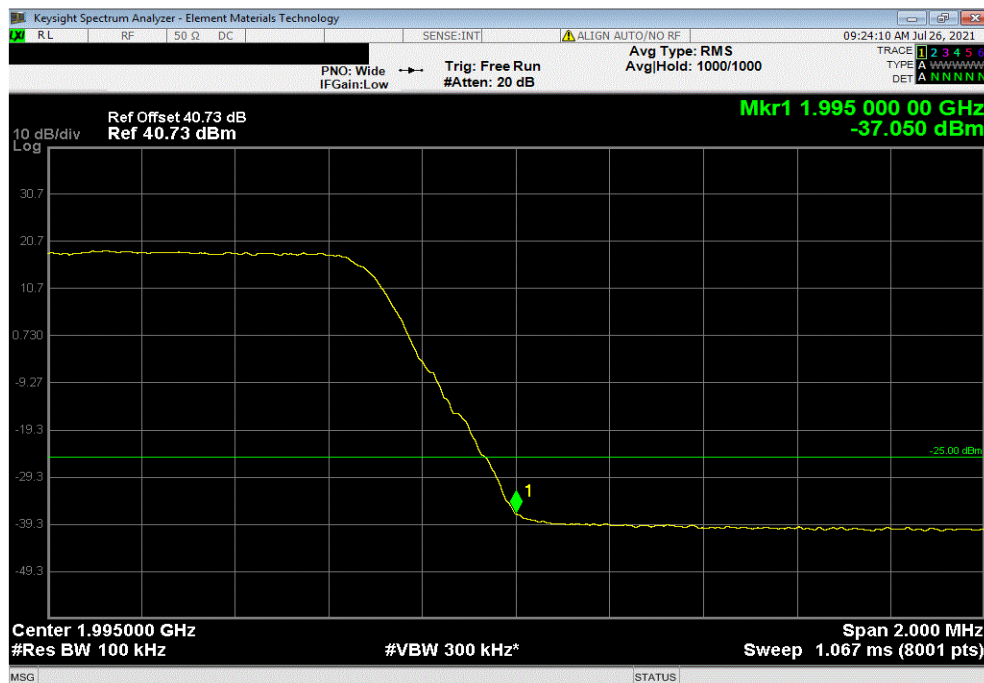


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1935.0 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-37.05	-25	Pass			

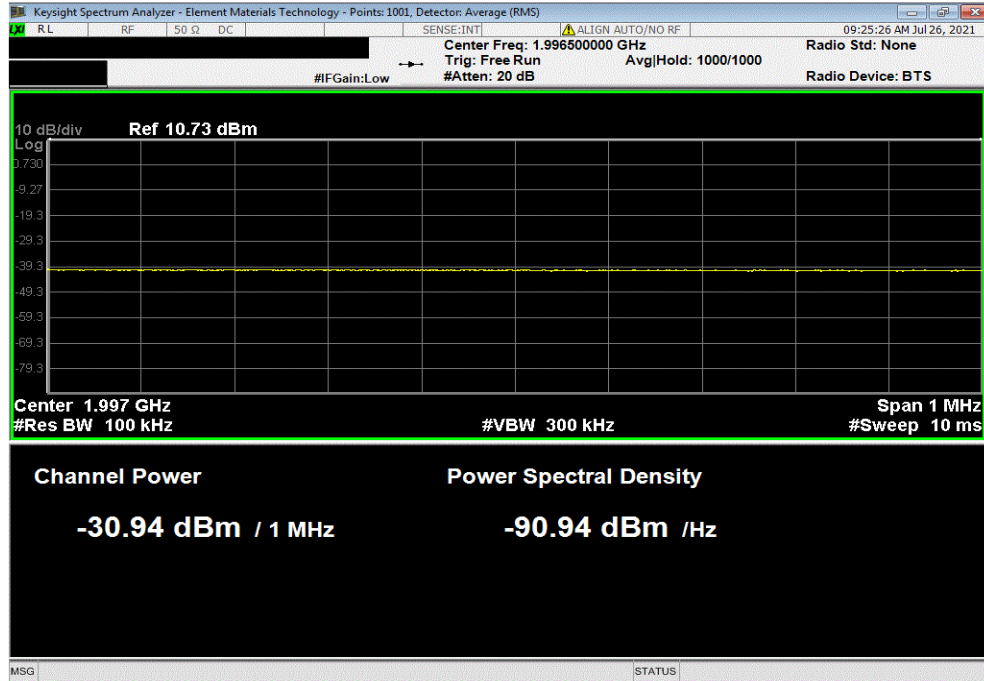


BAND EDGE COMPLIANCE

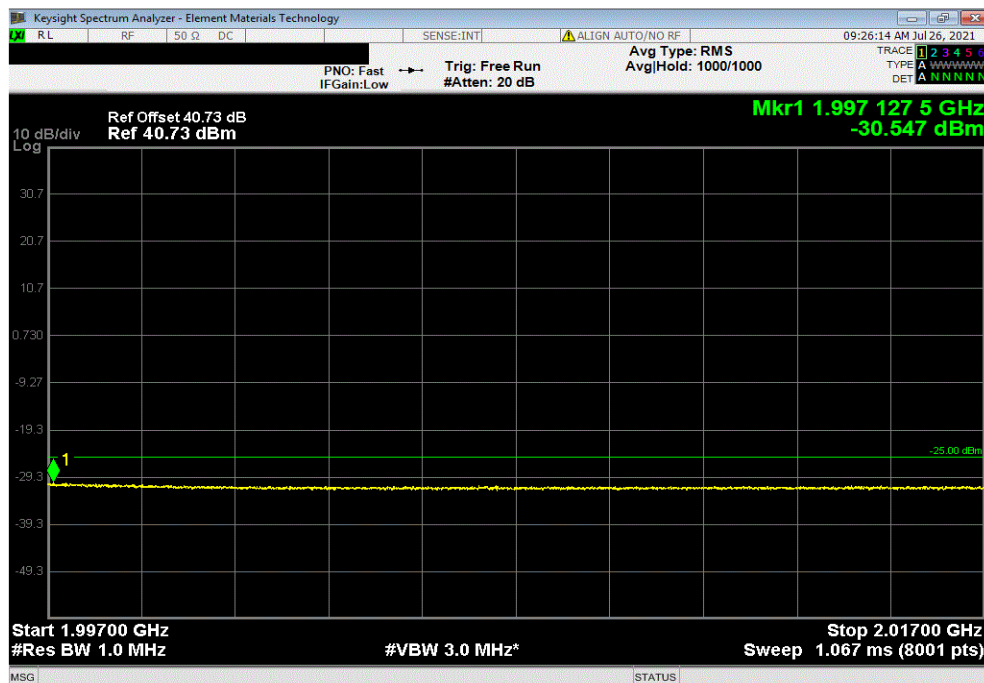


TbTtX 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.94	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.55	-25	Pass			

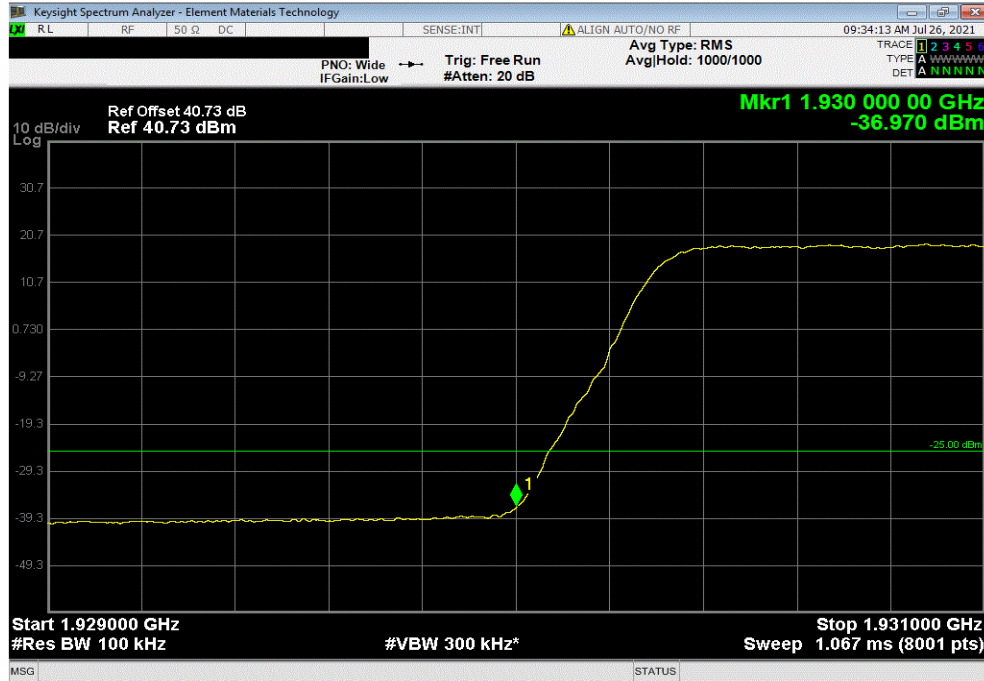


BAND EDGE COMPLIANCE

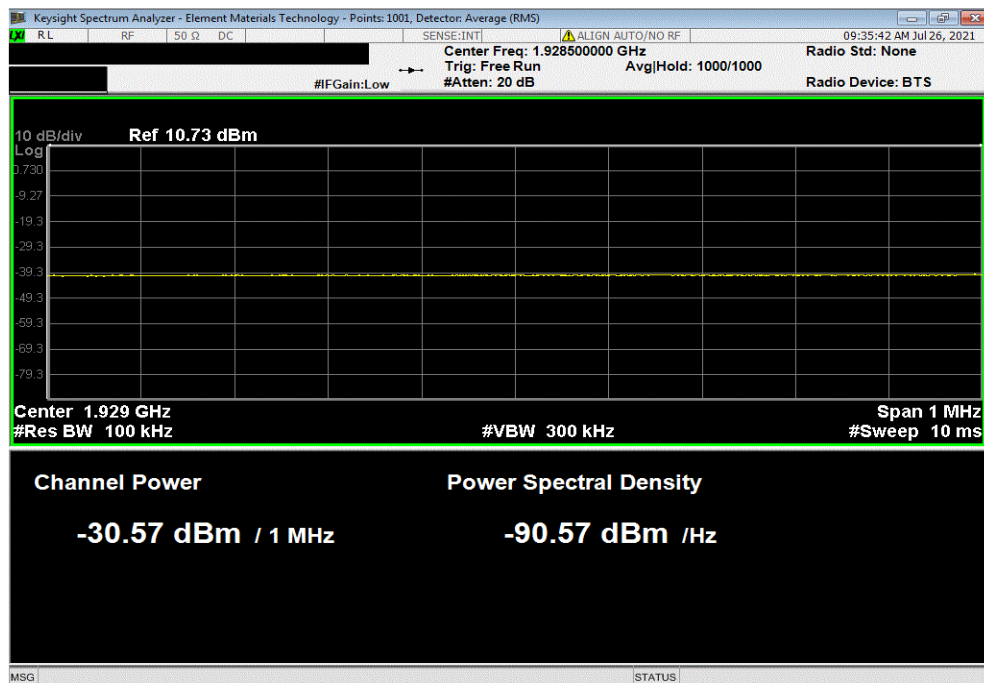


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1935.0 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-36.97		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1935.0 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.57		-25		Pass

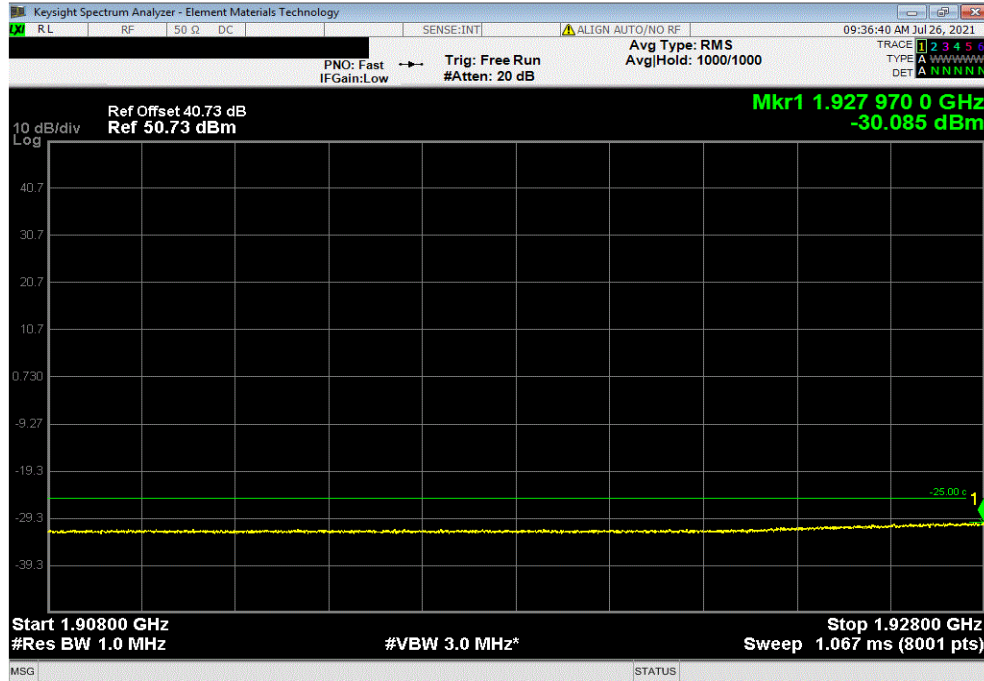


BAND EDGE COMPLIANCE

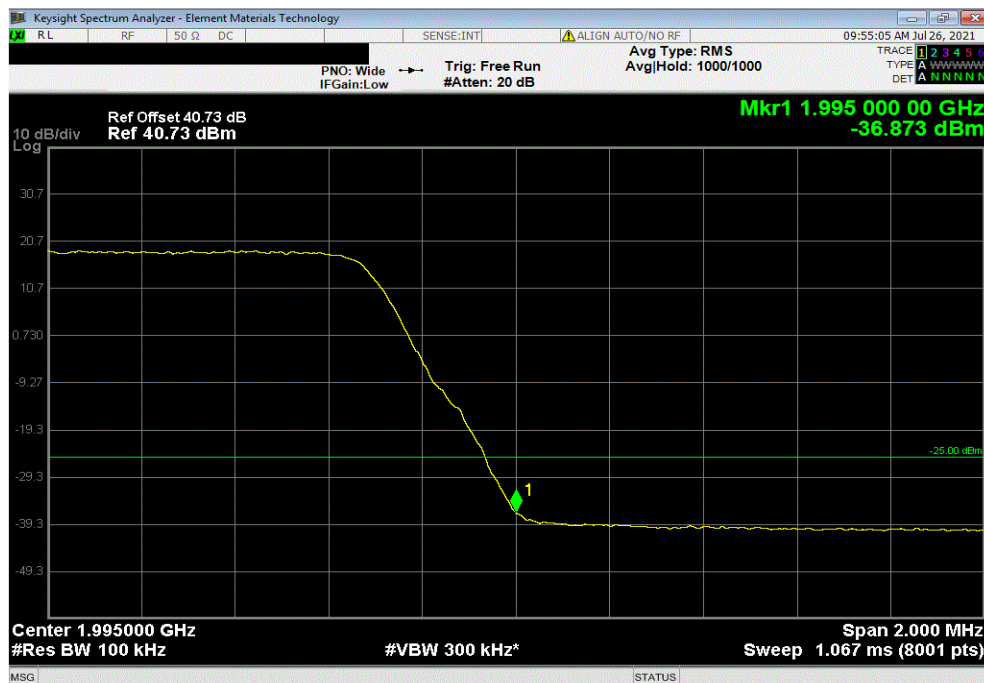


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1935.0 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.09	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-36.87	-25	Pass			

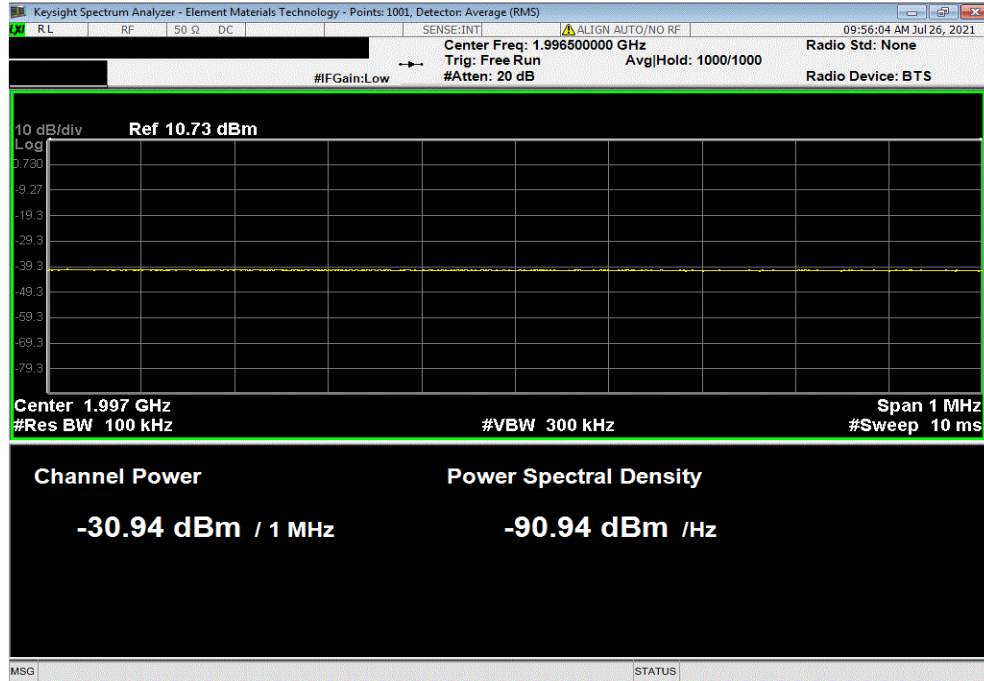


BAND EDGE COMPLIANCE

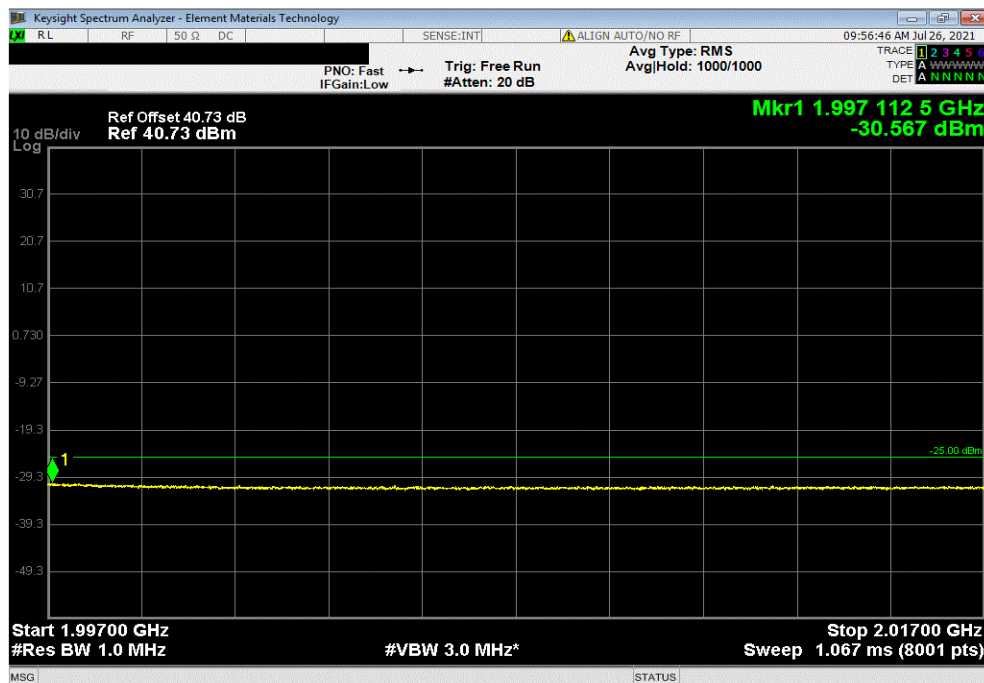


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.94	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 1990 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.57	-25	Pass			

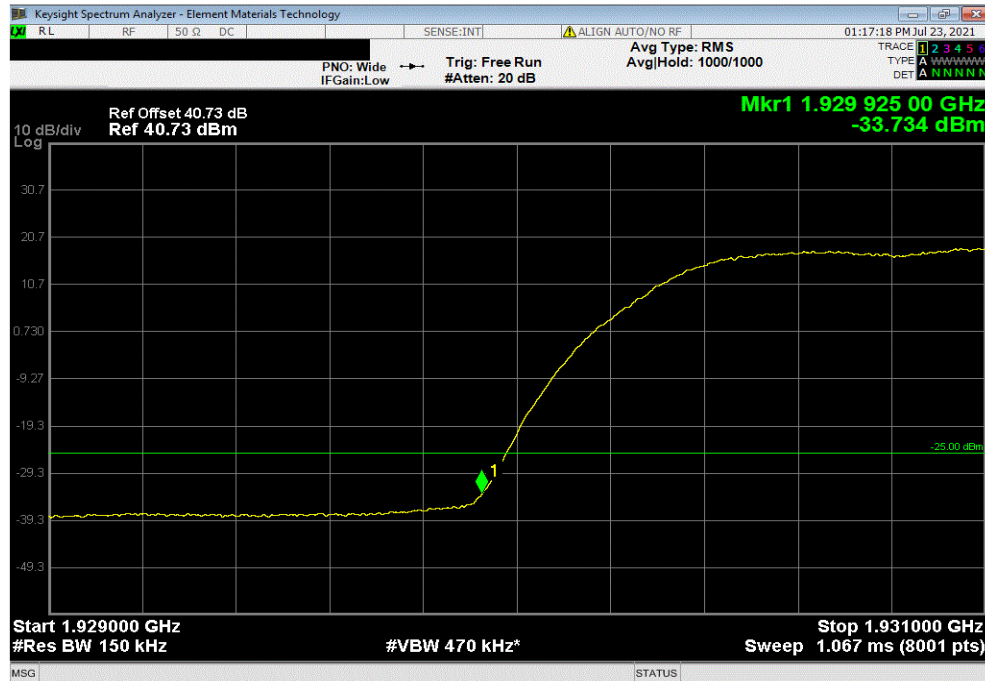


BAND EDGE COMPLIANCE

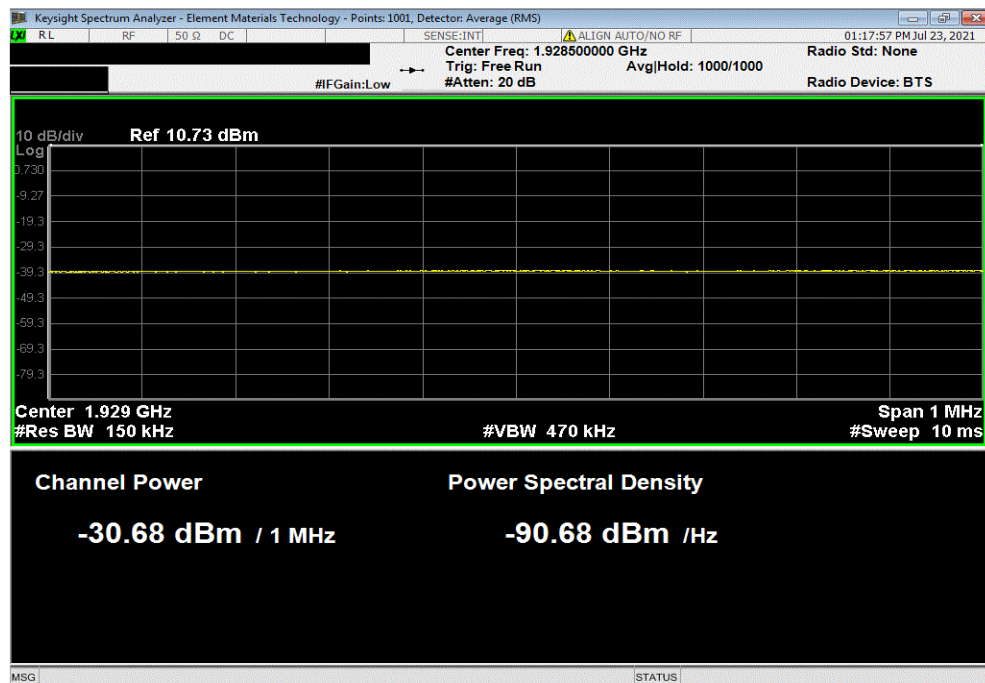


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, QPSK Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-33.73		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, QPSK Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.68		-25		Pass

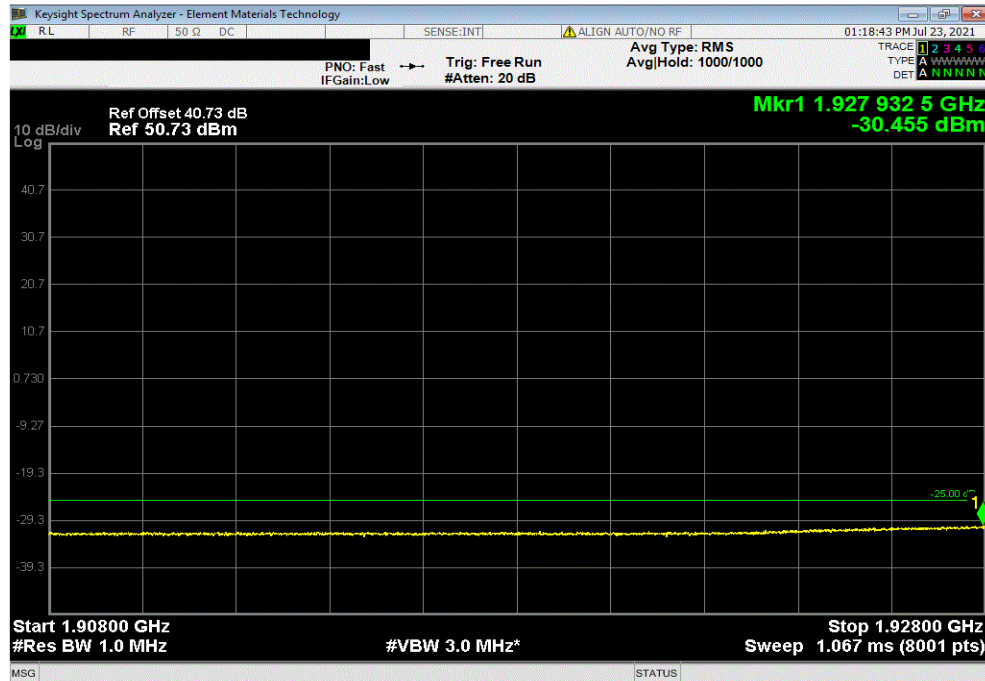


BAND EDGE COMPLIANCE

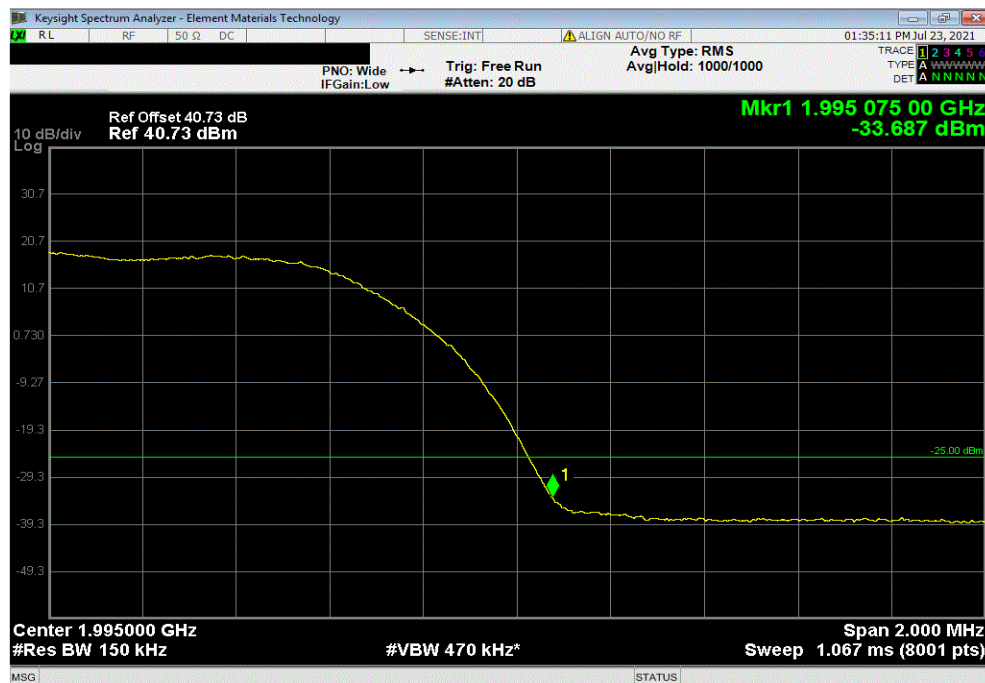


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, QPSK Modulation, Low Channel, 1937.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.46	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, QPSK Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-33.69	-25	Pass			

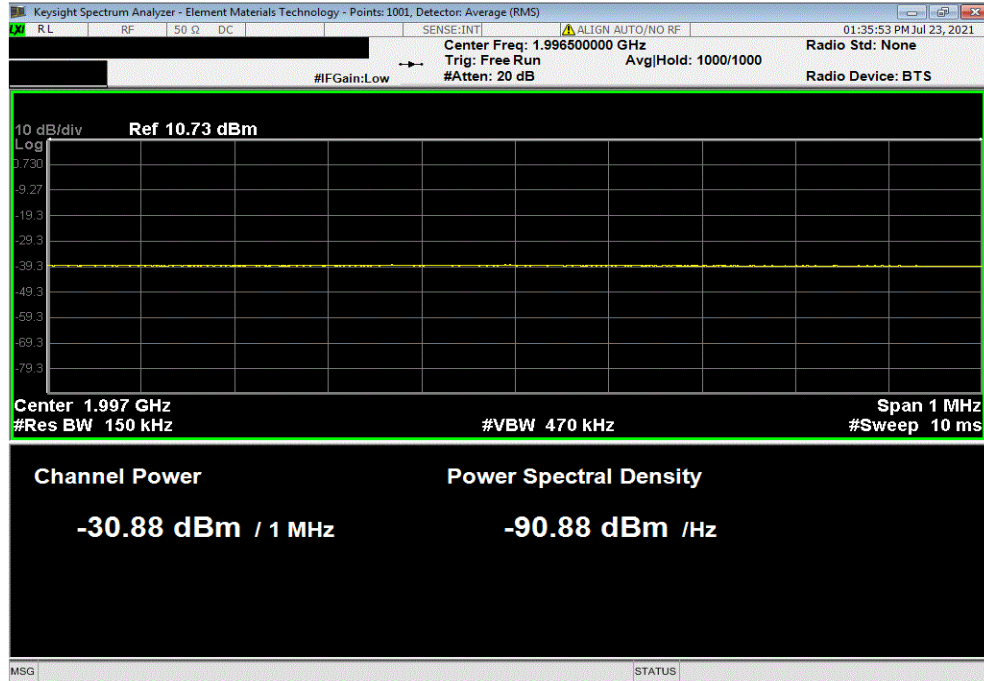


BAND EDGE COMPLIANCE

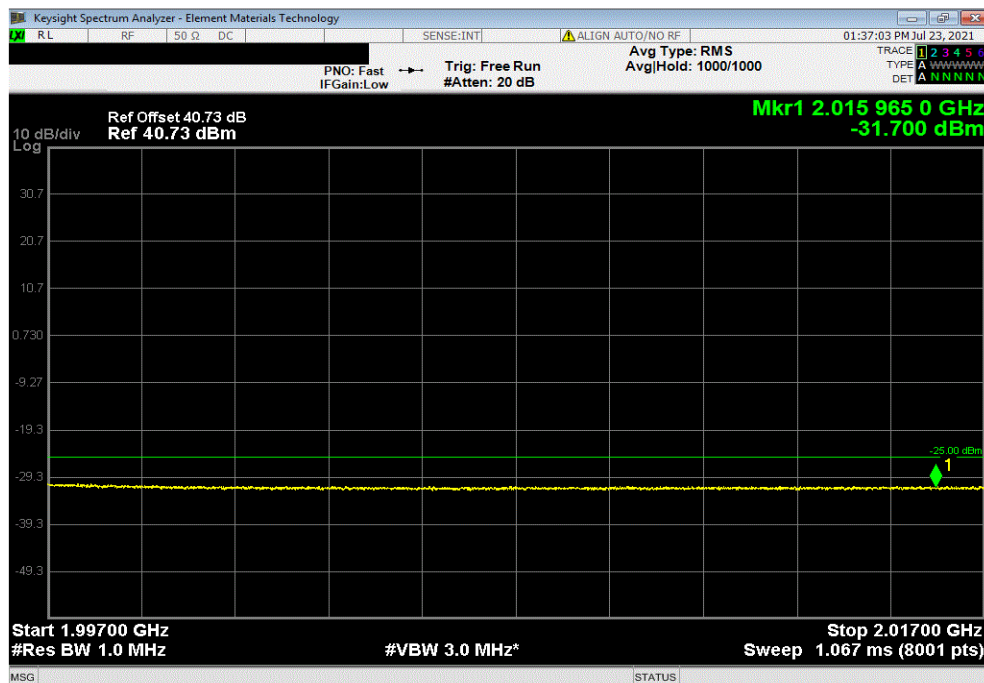


TbTtX 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, QPSK Modulation , High Channel, 1987.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.88		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, QPSK Modulation , High Channel, 1987.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-31.7		-25		Pass

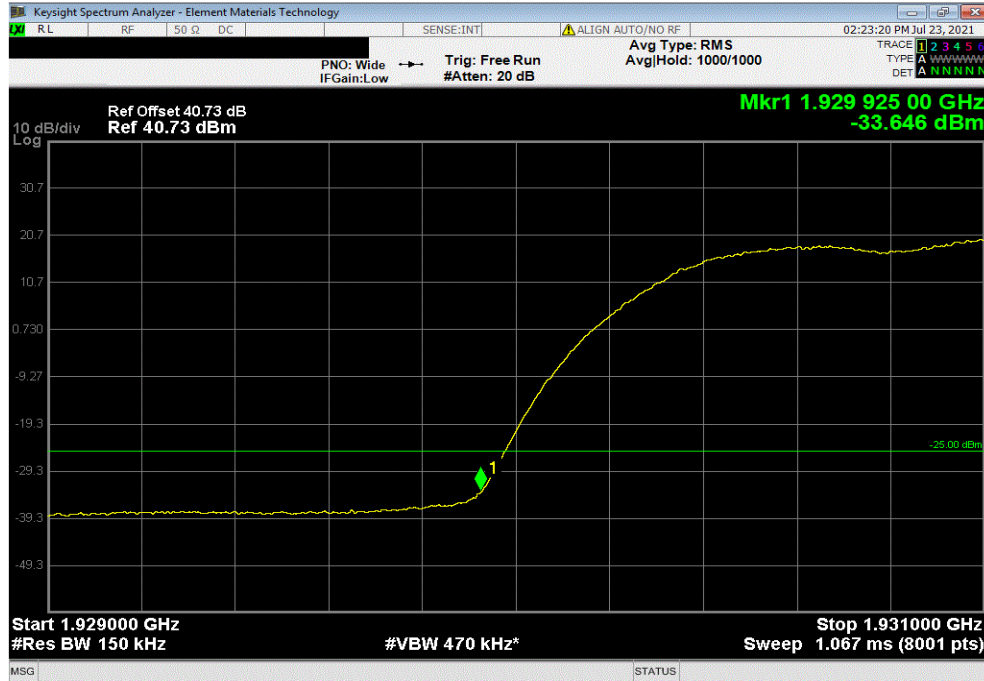


BAND EDGE COMPLIANCE

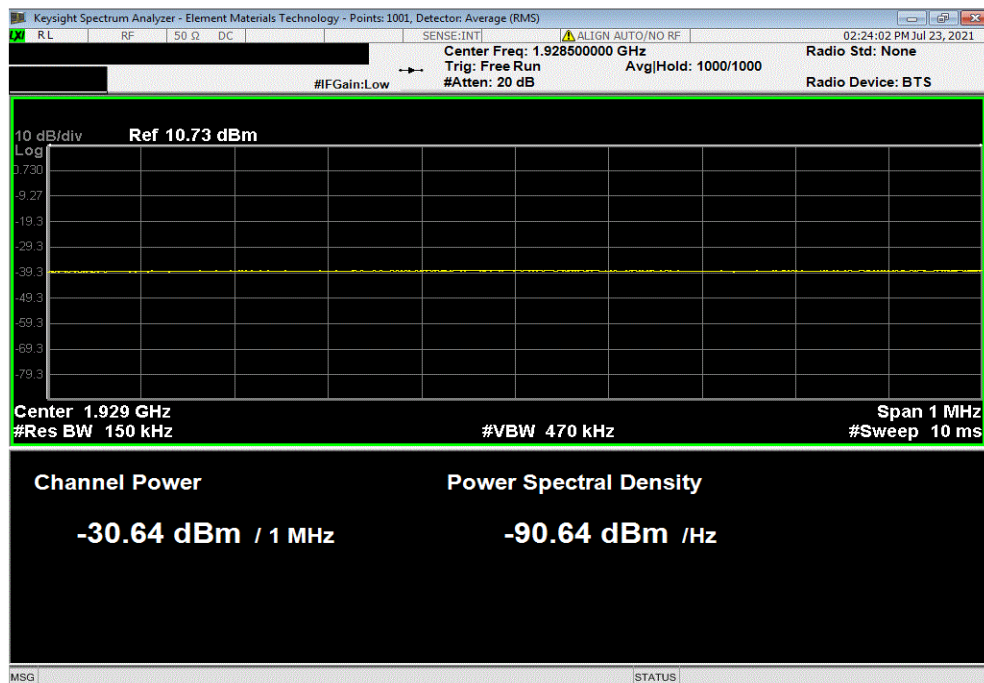


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-33.65	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.64	-25	Pass			

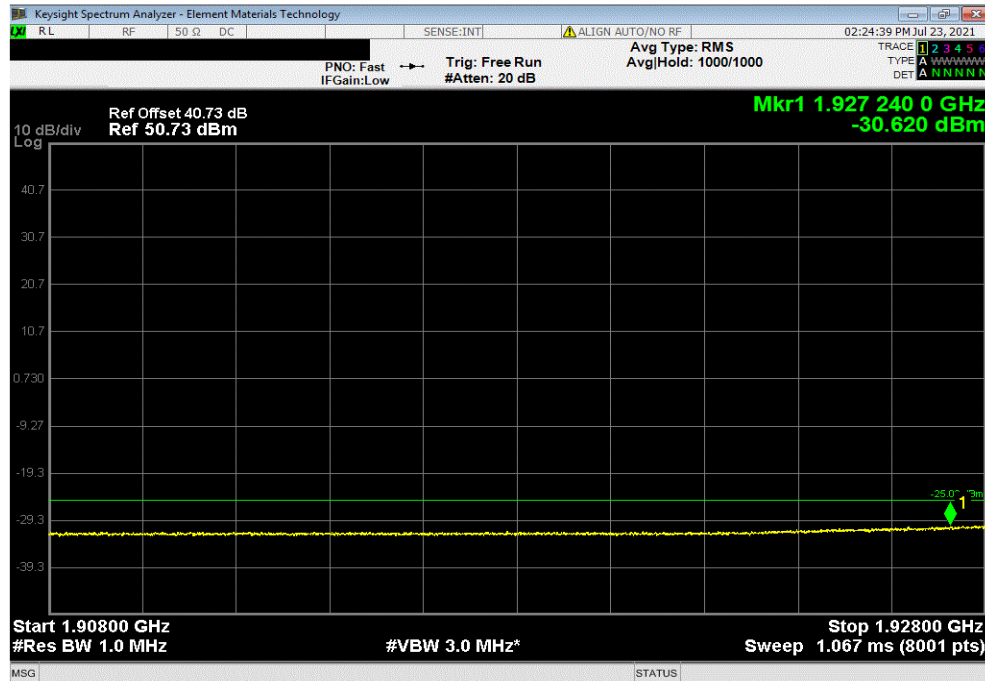


BAND EDGE COMPLIANCE

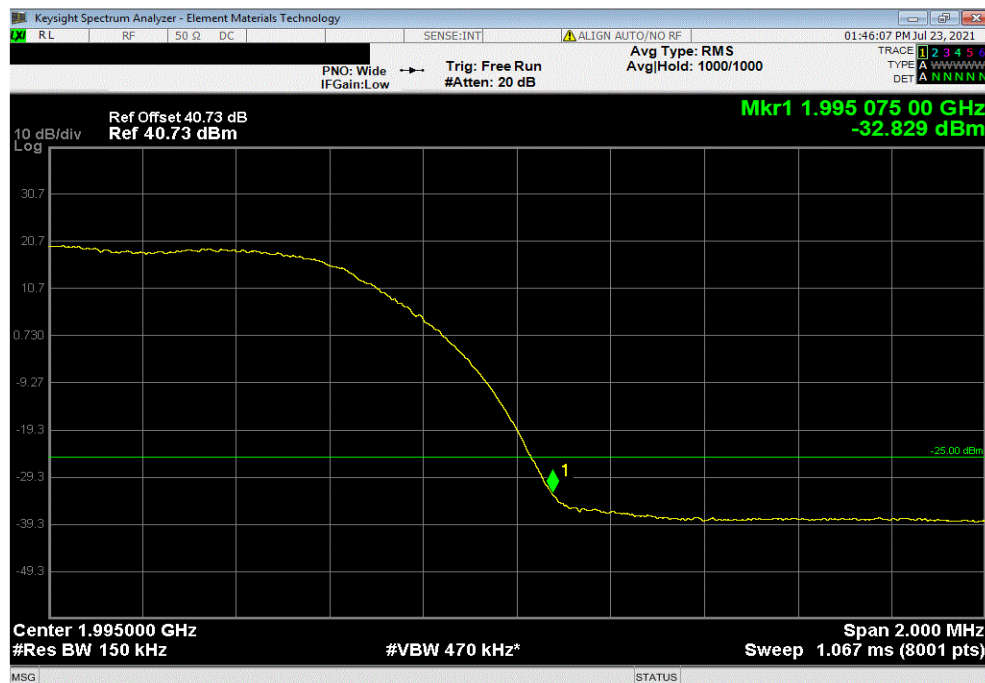


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.62	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 16-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-32.83	-25	Pass			

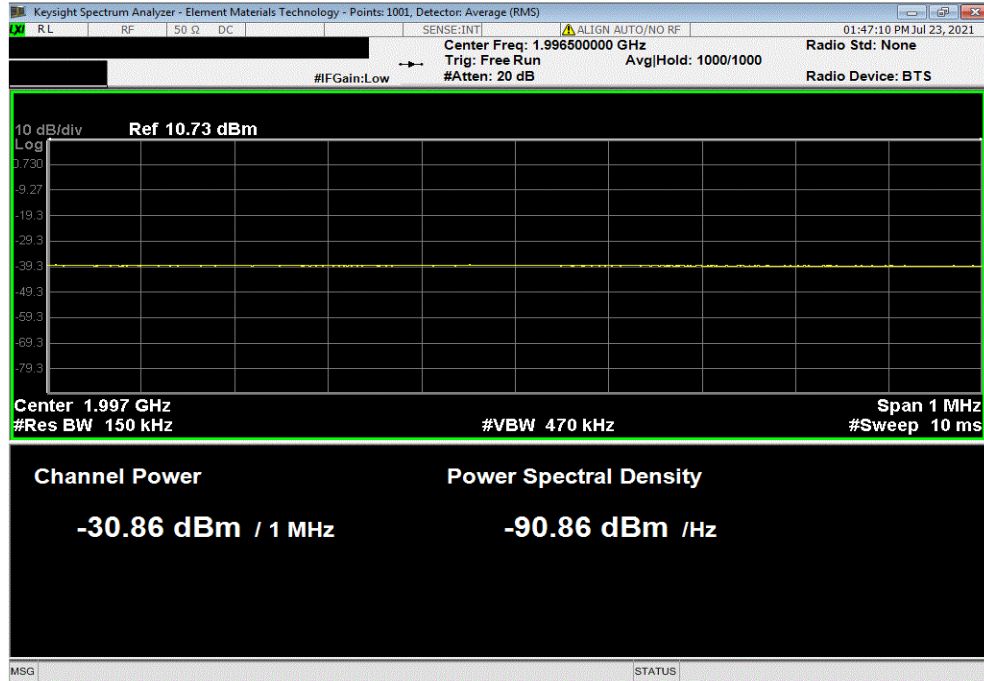


BAND EDGE COMPLIANCE

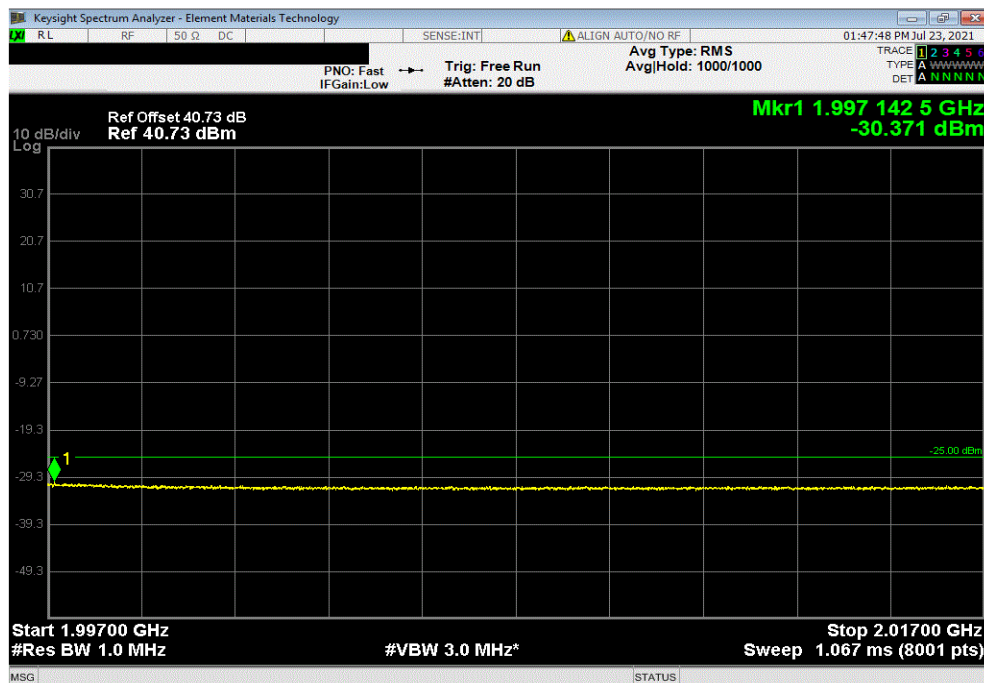


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 16-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.86	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 16-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.37	-25	Pass			

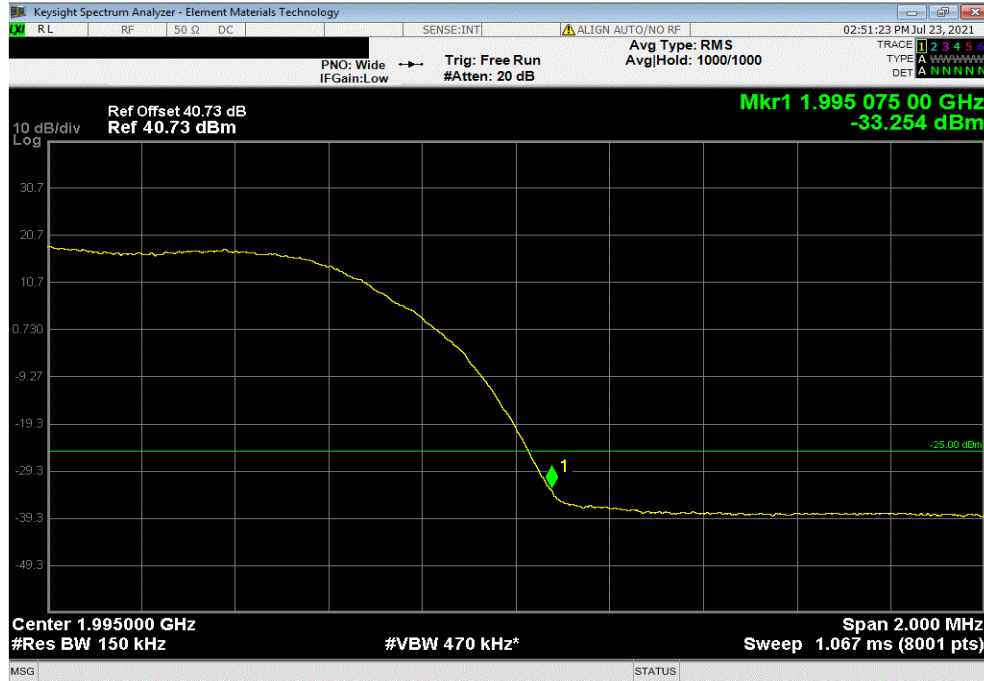


BAND EDGE COMPLIANCE

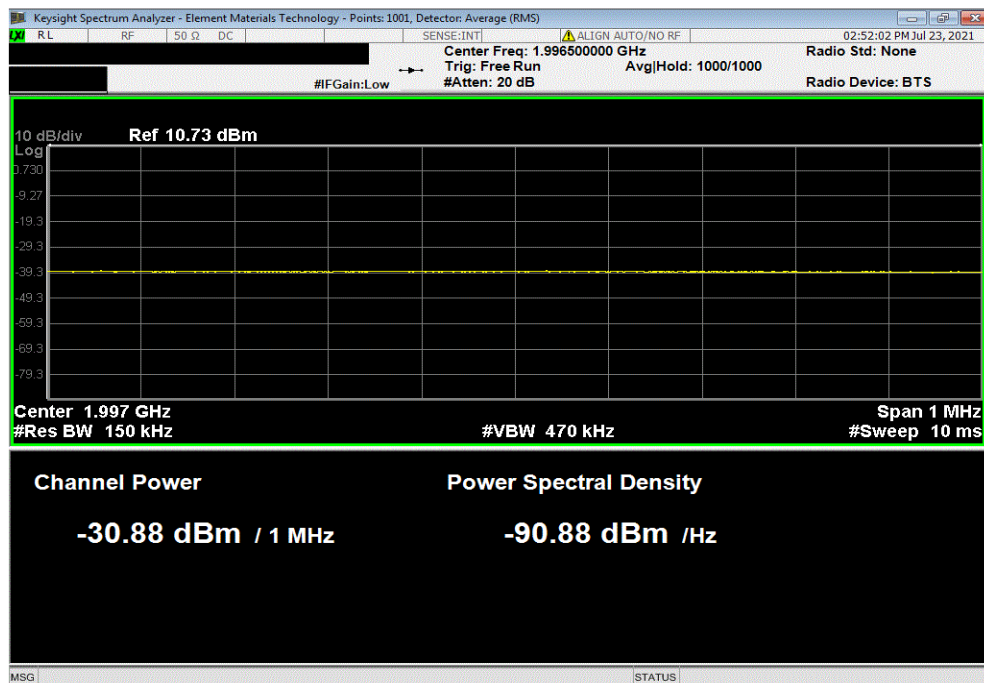


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-33.25	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.88	-25	Pass			

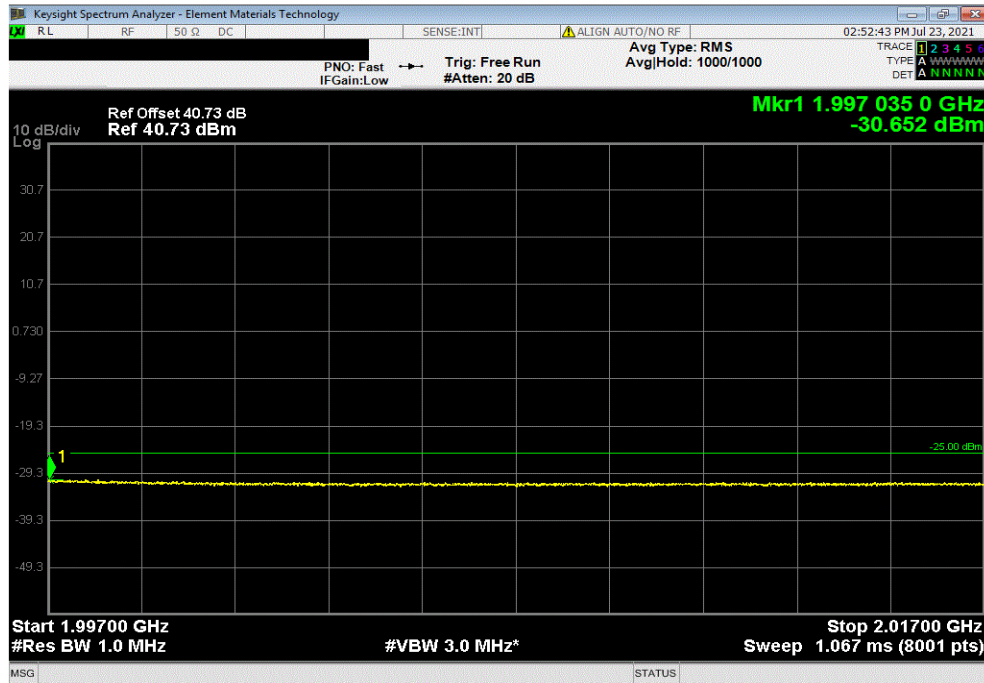


BAND EDGE COMPLIANCE

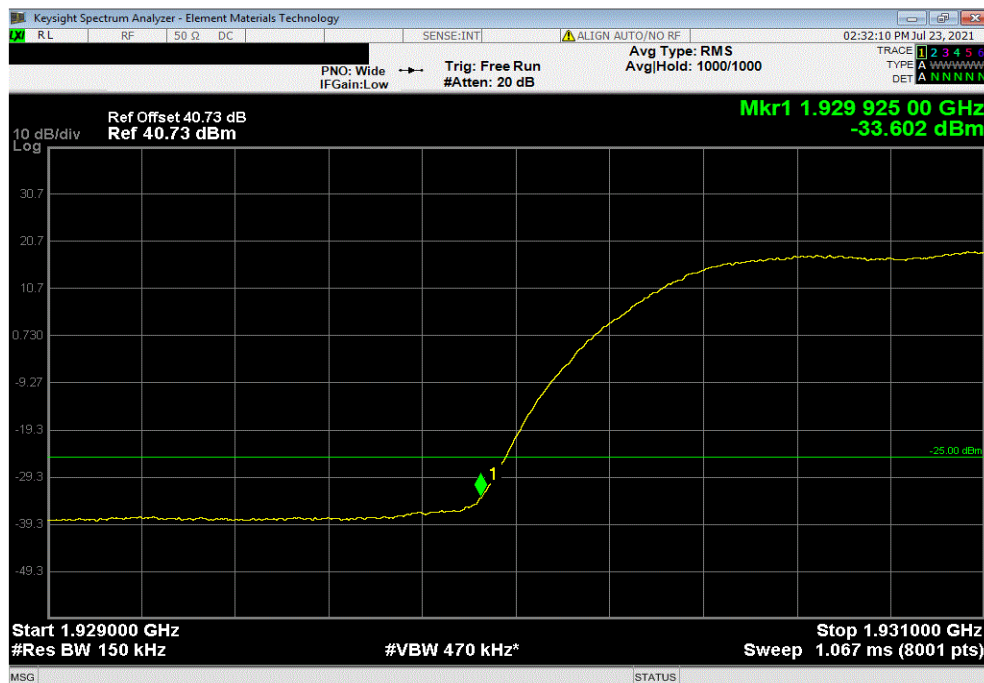


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.65	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-33.6	-25	Pass			

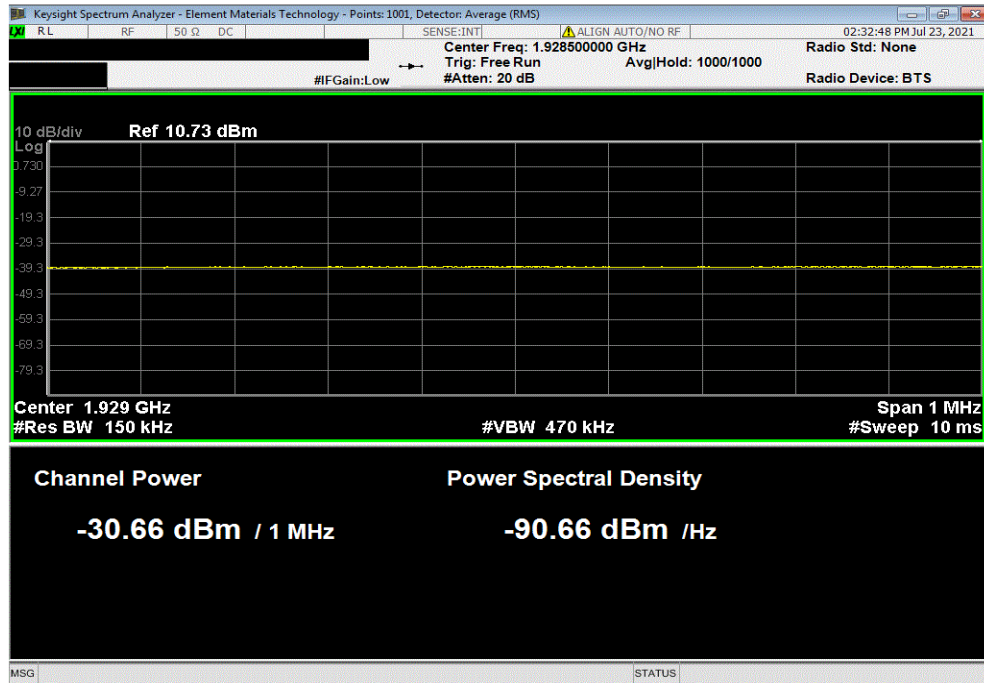


BAND EDGE COMPLIANCE

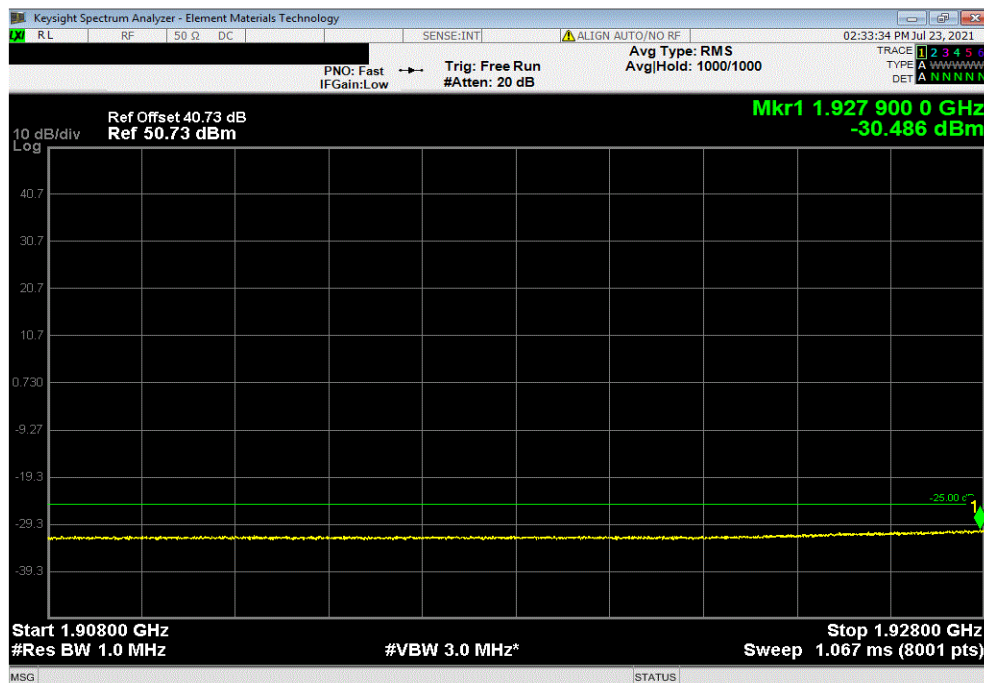


TbTtx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.66	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.49	-25	Pass			

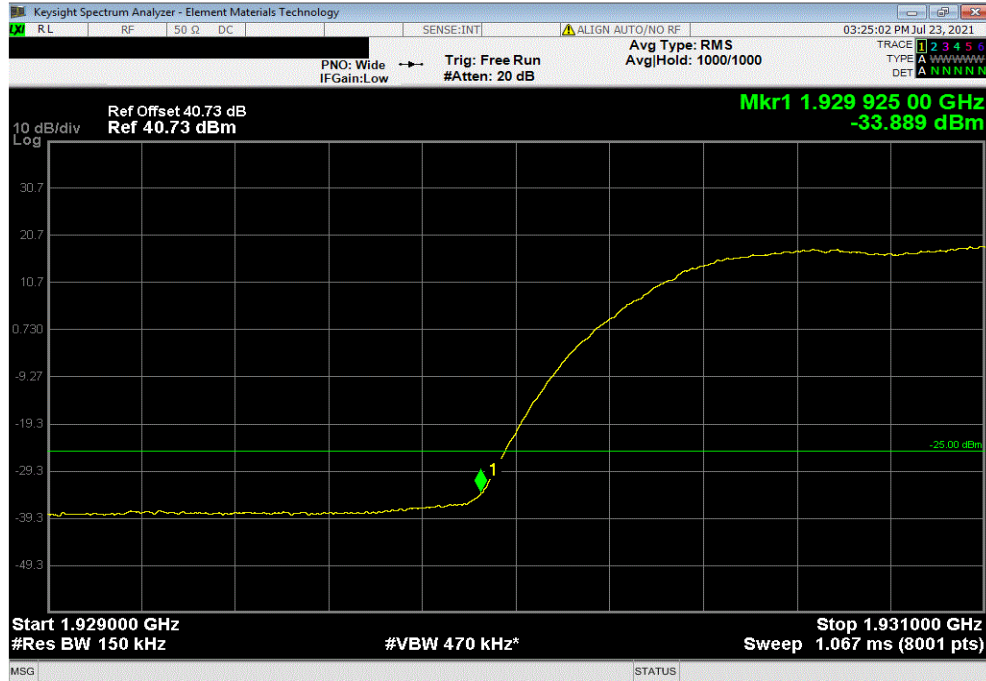


BAND EDGE COMPLIANCE

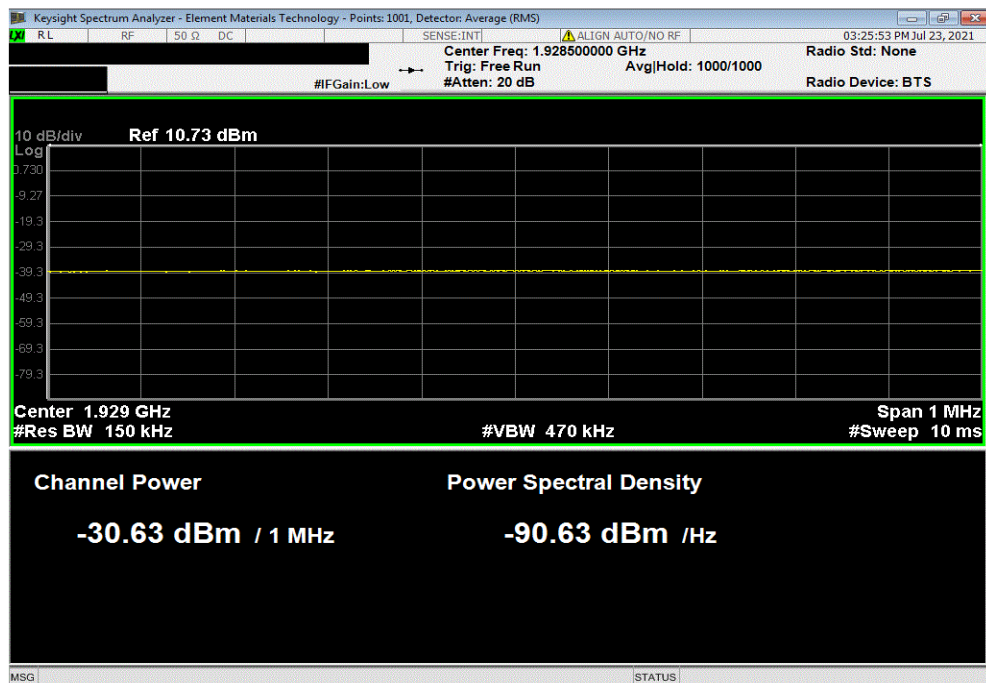


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-33.89		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.63		-25		Pass

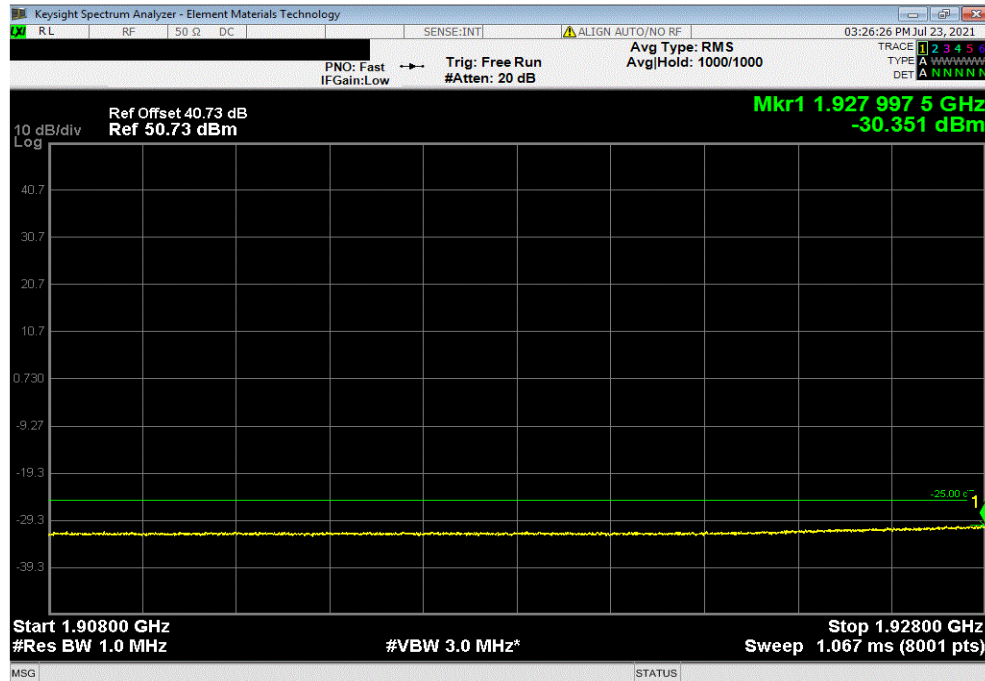


BAND EDGE COMPLIANCE

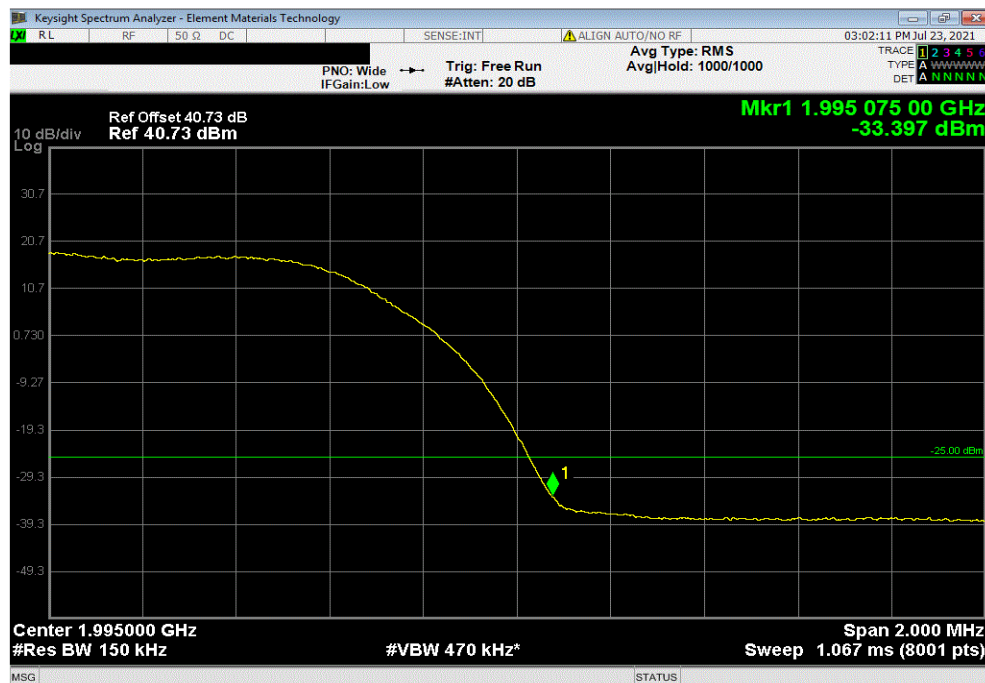


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.35	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-33.4	-25	Pass			

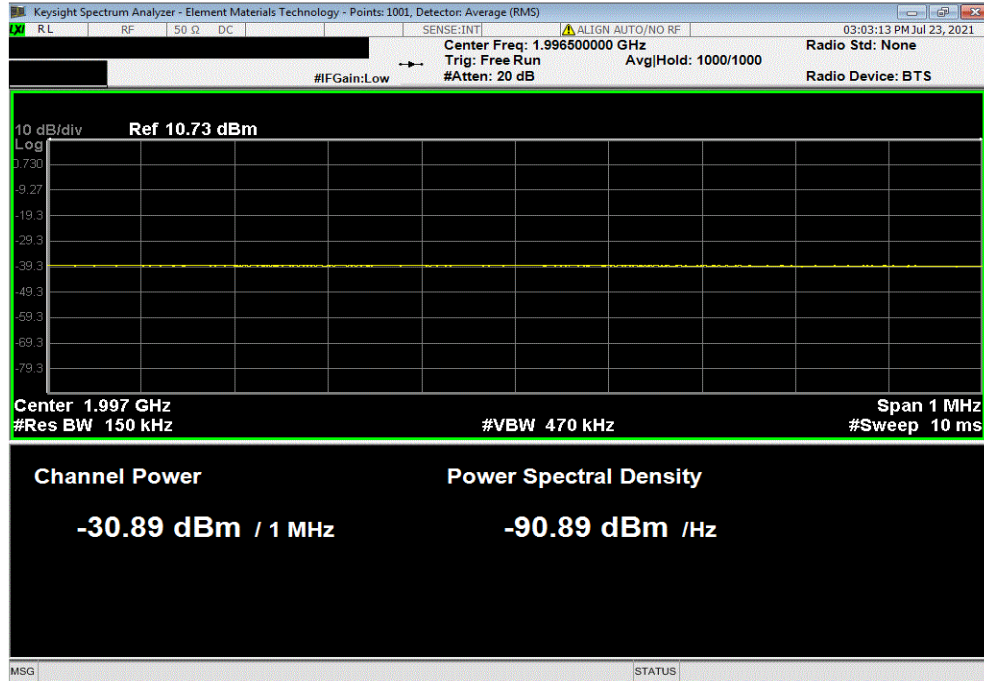


BAND EDGE COMPLIANCE

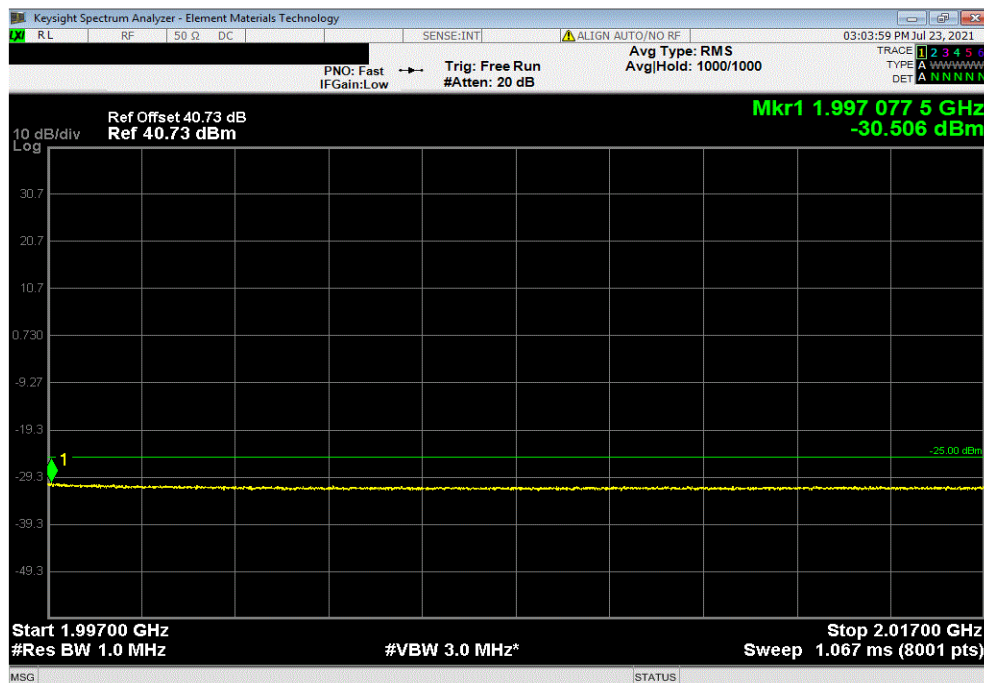


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.89	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.51	-25	Pass			

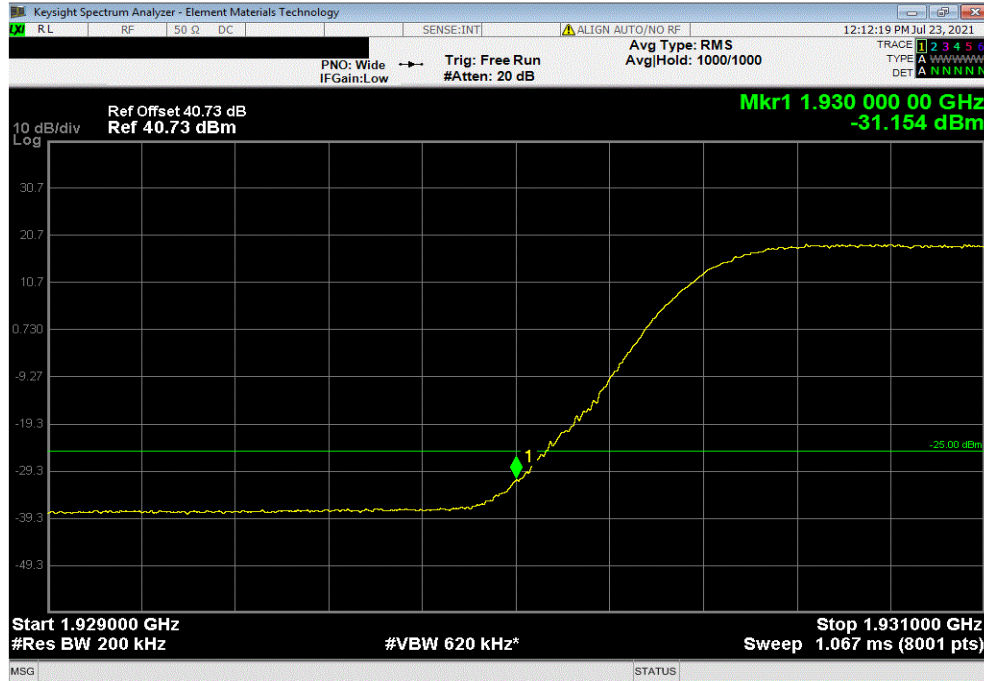


BAND EDGE COMPLIANCE

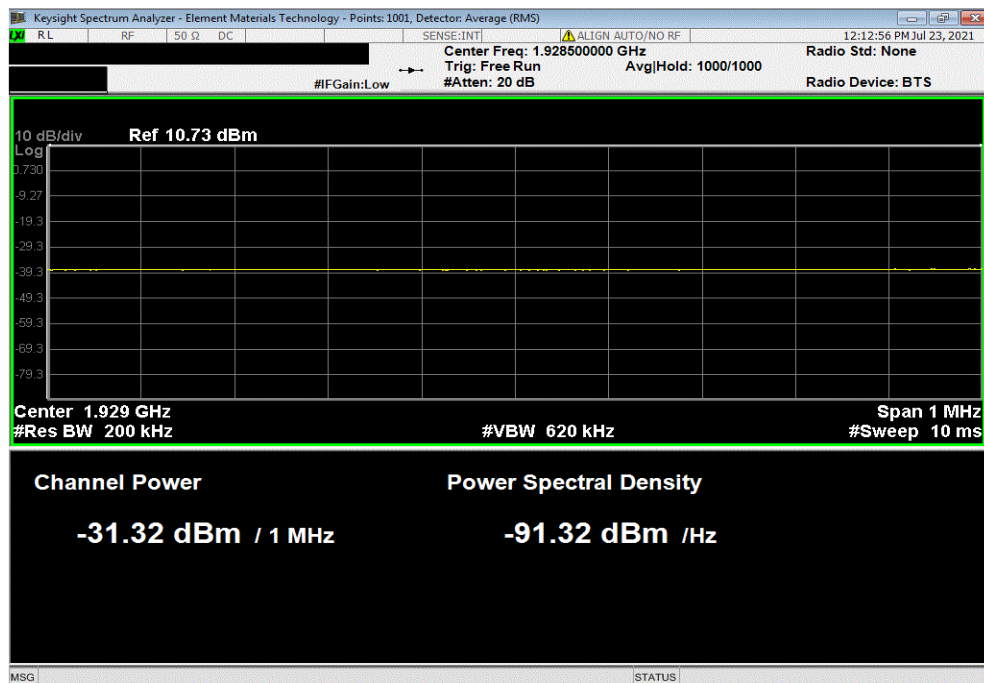


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, QPSK Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-31.15		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, QPSK Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-31.32		-25		Pass

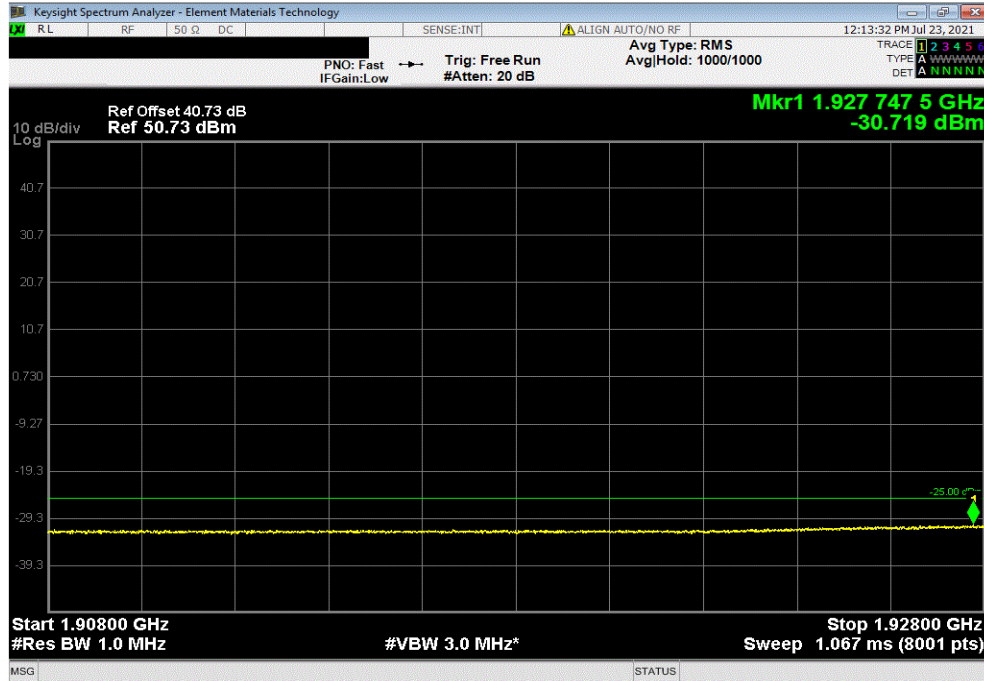


BAND EDGE COMPLIANCE

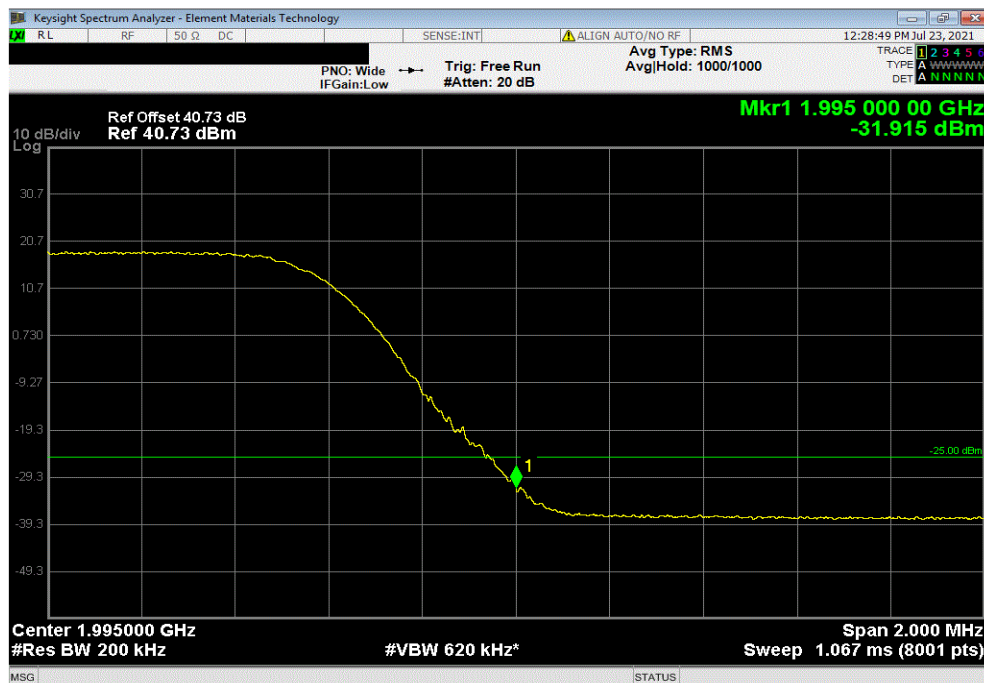


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, QPSK Modulation, Low Channel, 1940 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.72	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, QPSK Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-31.92	-25	Pass			

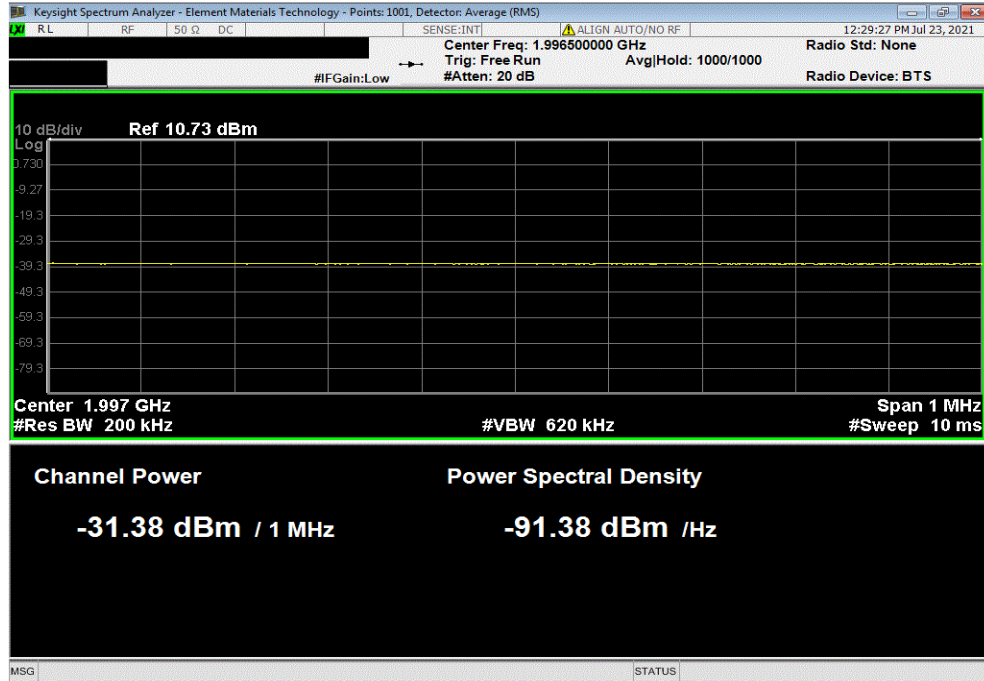


BAND EDGE COMPLIANCE

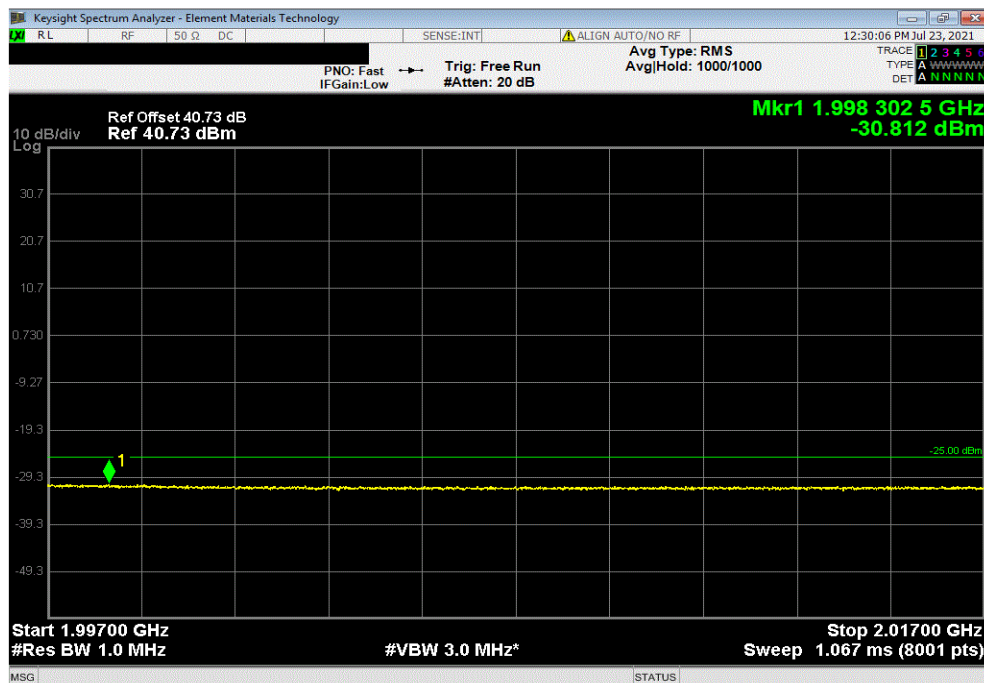


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, QPSK Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-31.38	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, QPSK Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.81	-25	Pass			

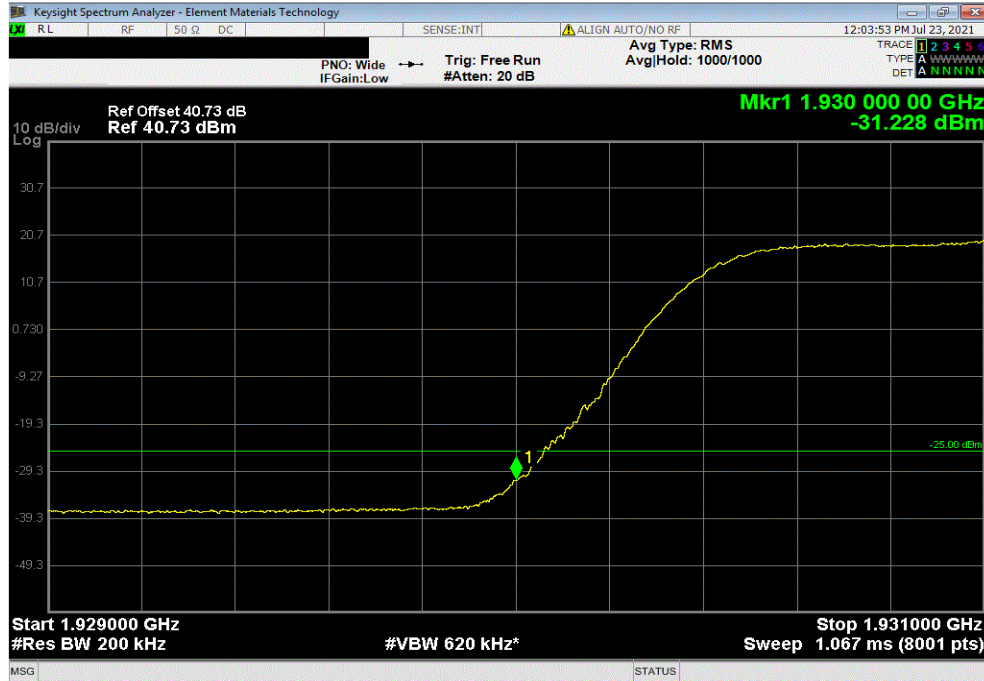


BAND EDGE COMPLIANCE

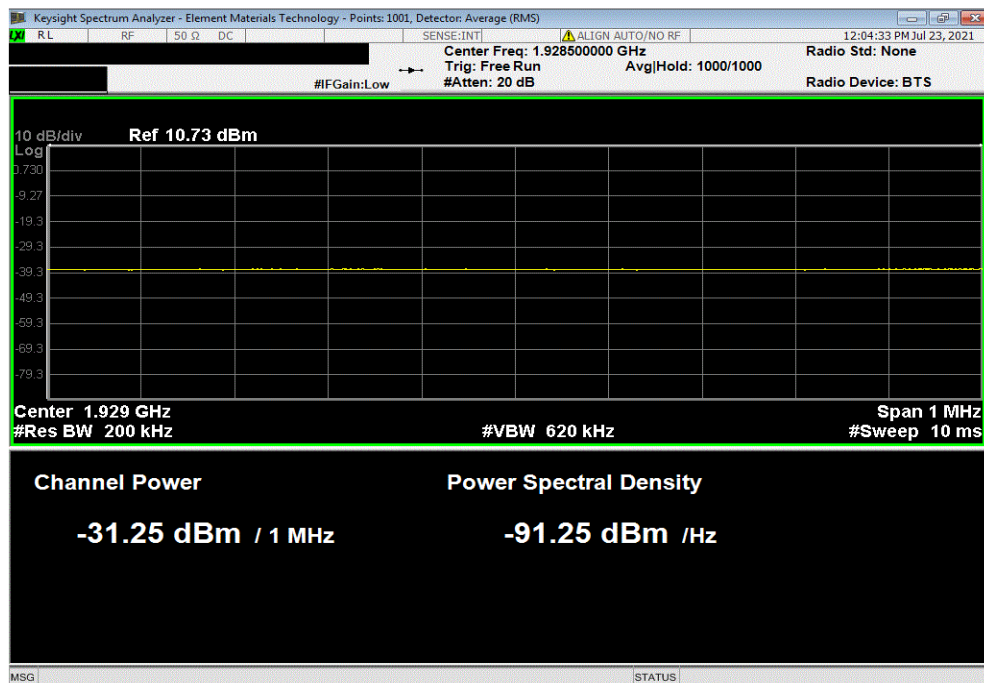


TbTx 2021.03.19.1 XM8 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-31.23		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-31.25		-25		Pass

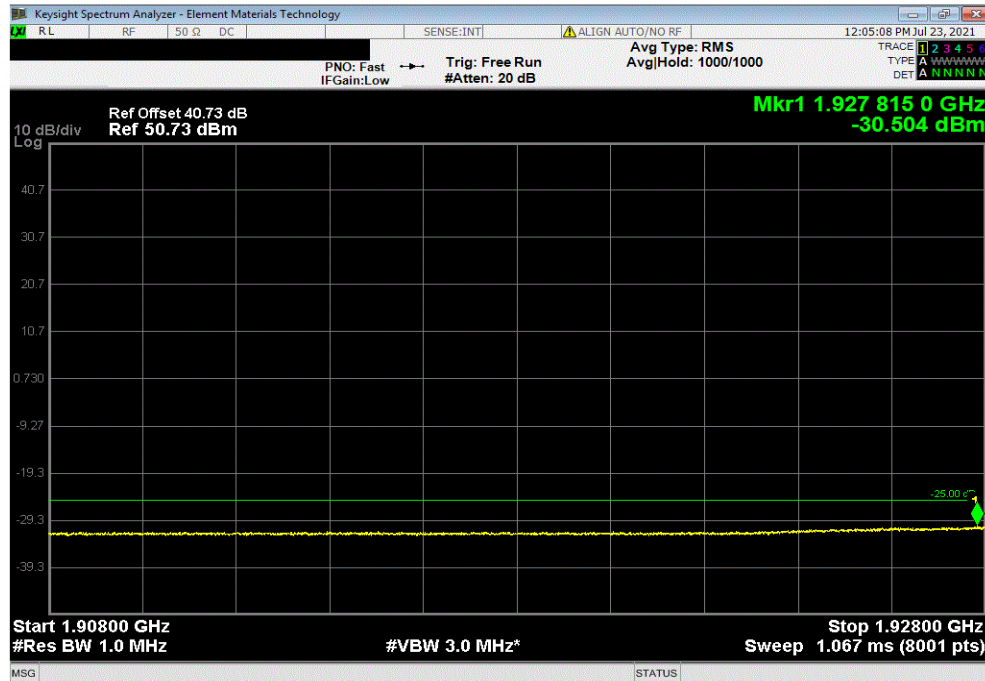


BAND EDGE COMPLIANCE

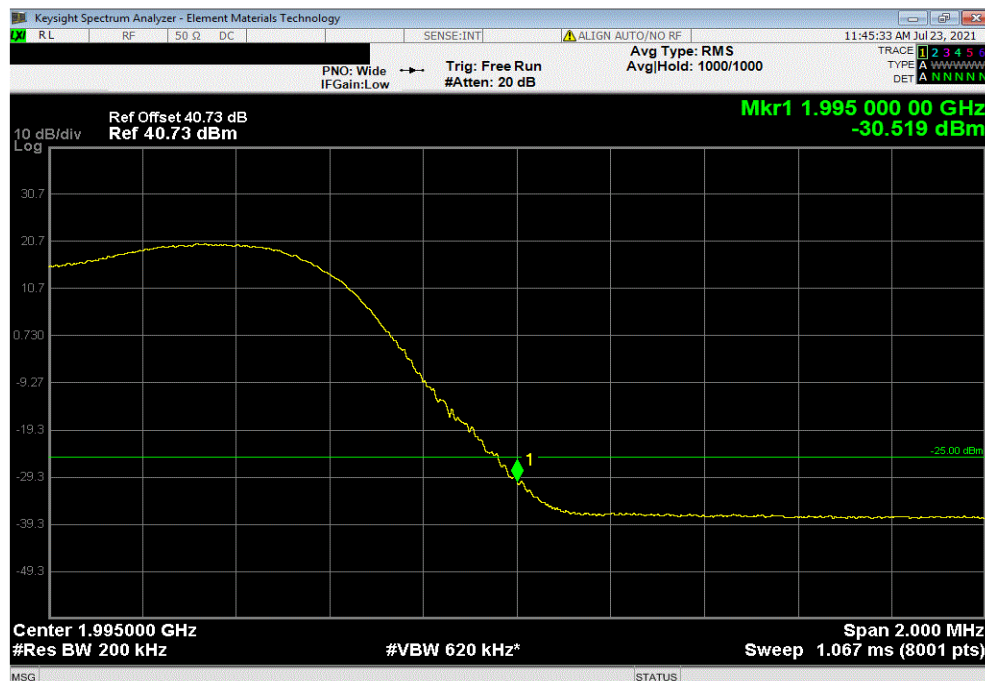


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-30.5		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 16-QAM Modulation, High Channel, 1985 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-30.52		-25		Pass

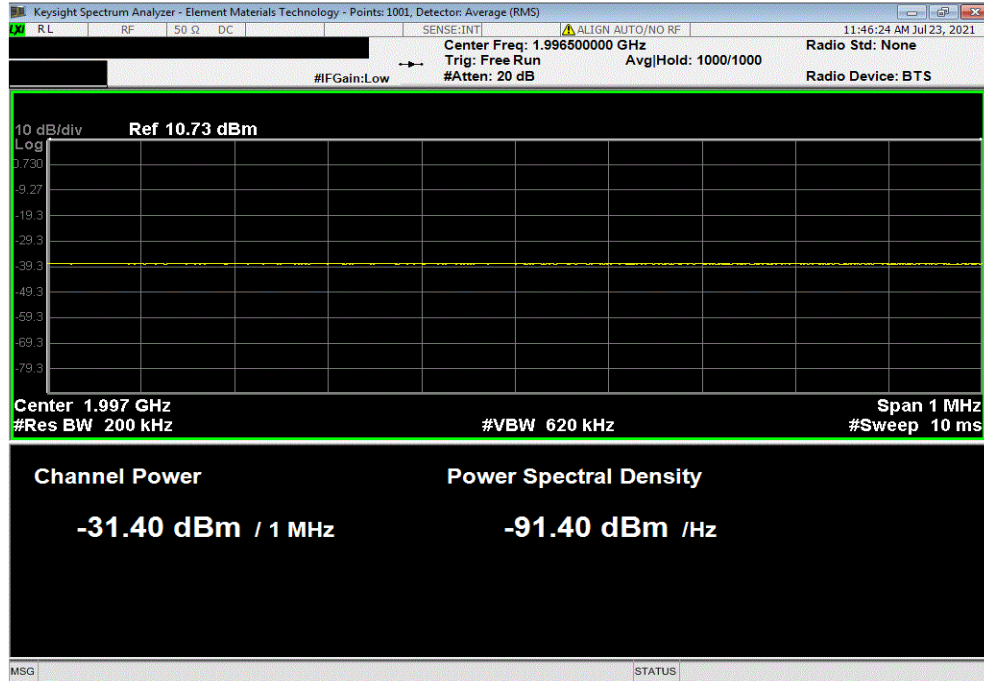


BAND EDGE COMPLIANCE

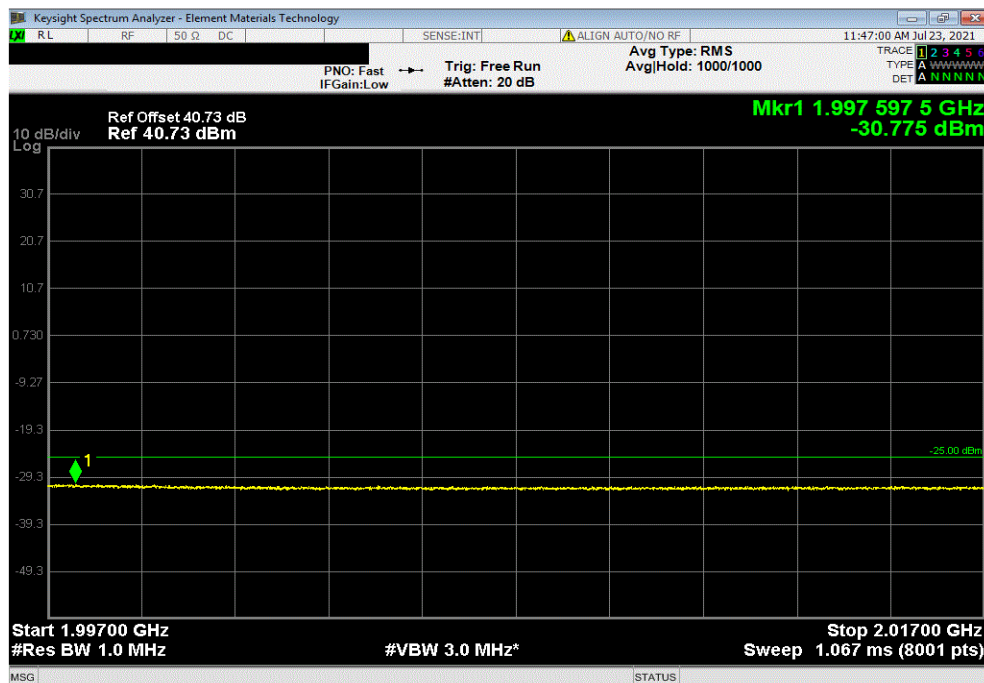


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 16-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-31.40	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 16-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.78	-25	Pass			

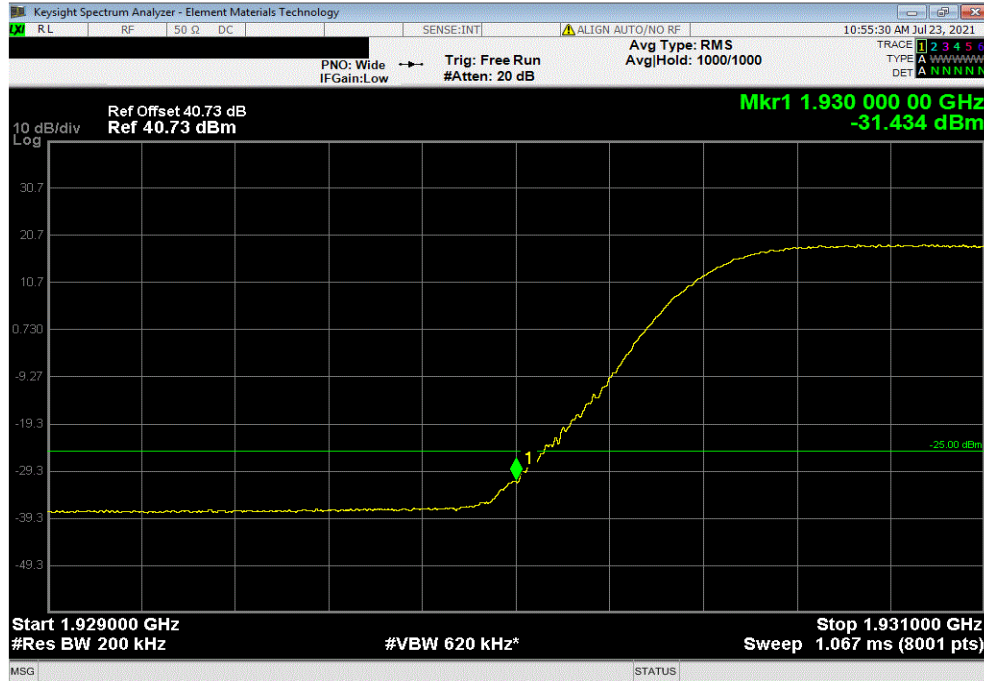


BAND EDGE COMPLIANCE

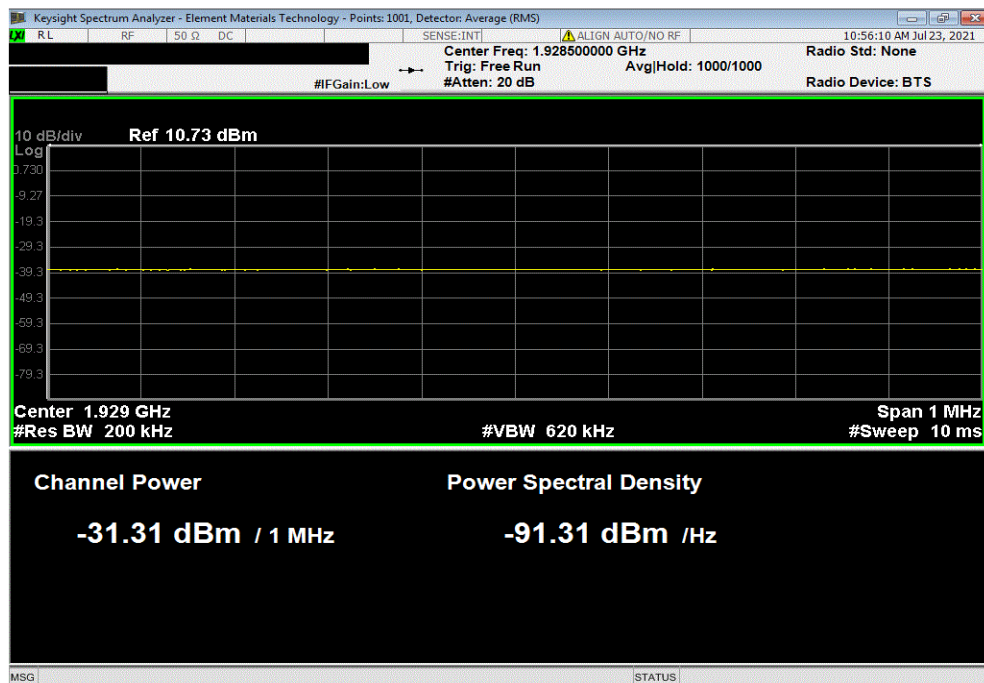


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-31.43		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-31.31		-25		Pass

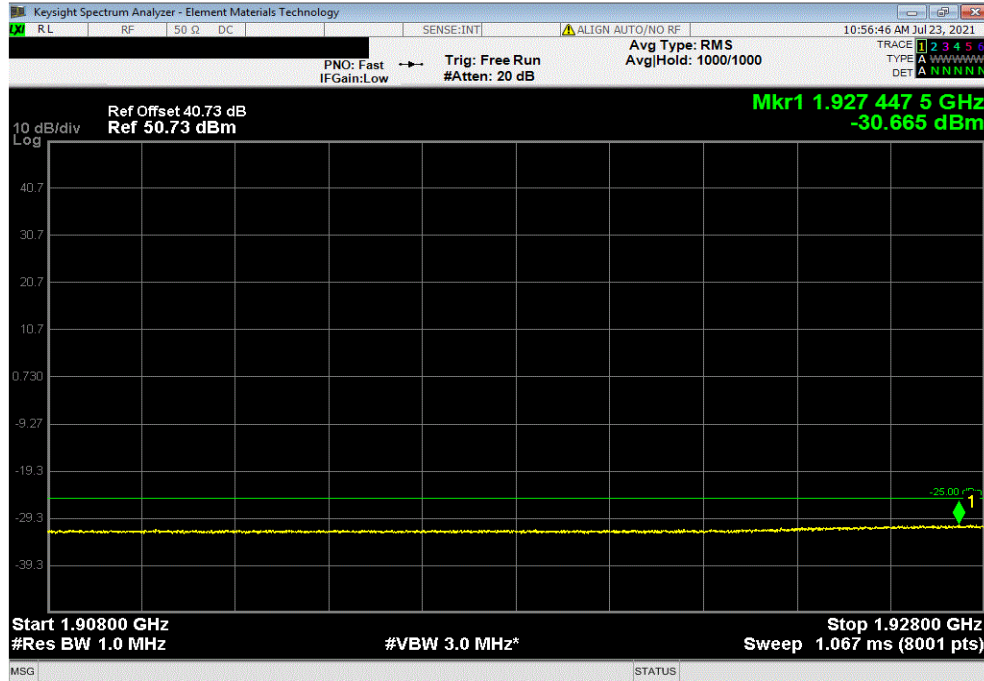


BAND EDGE COMPLIANCE

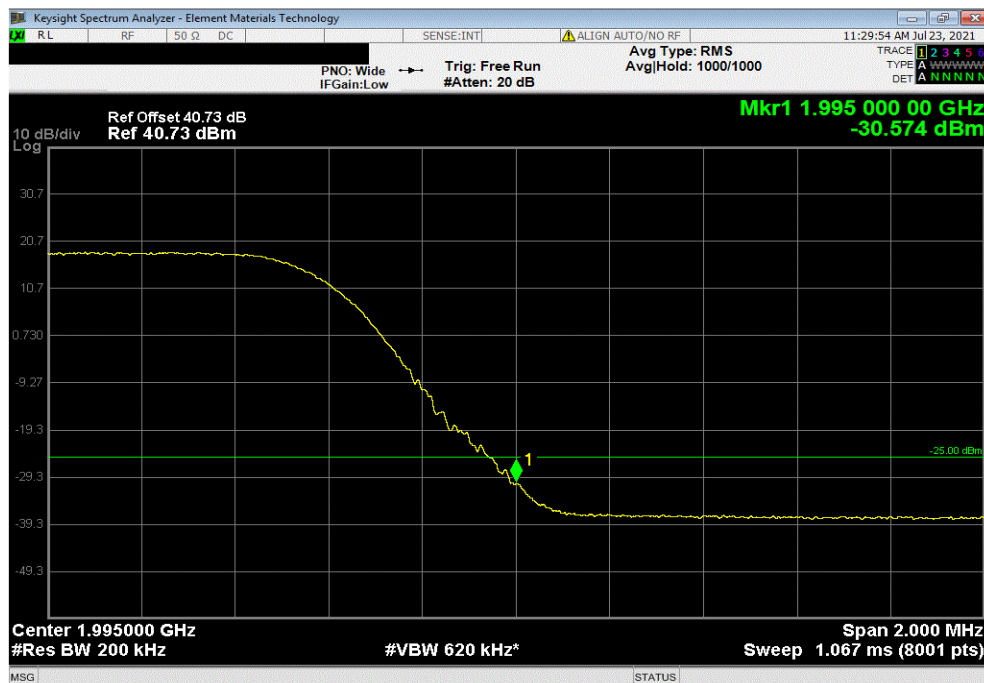


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-30.67		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, High Channel, 1985 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-30.57		-25		Pass

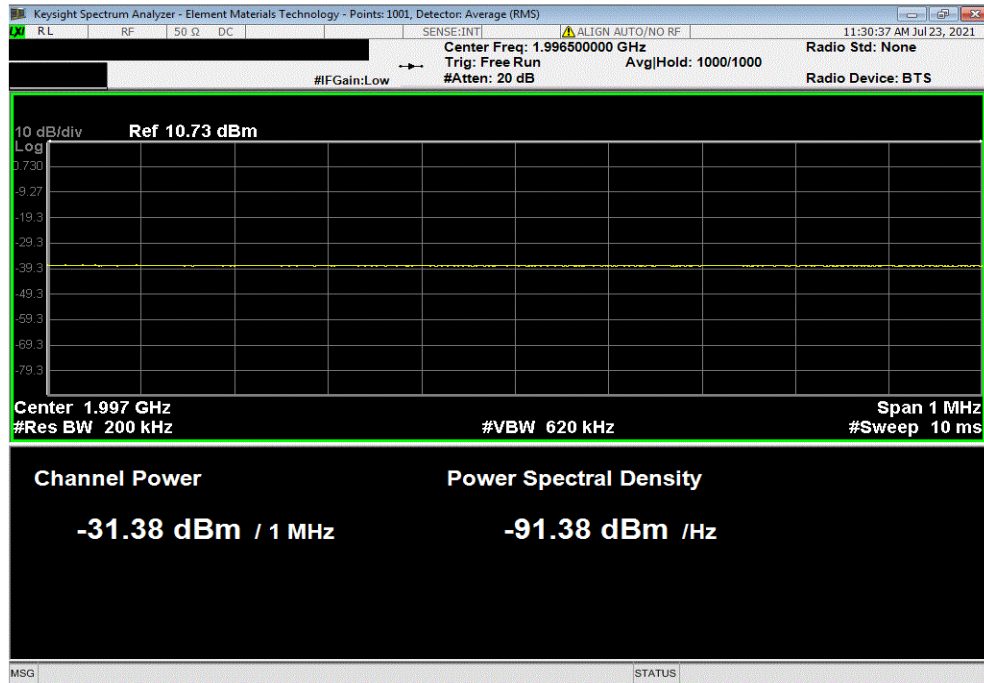


BAND EDGE COMPLIANCE

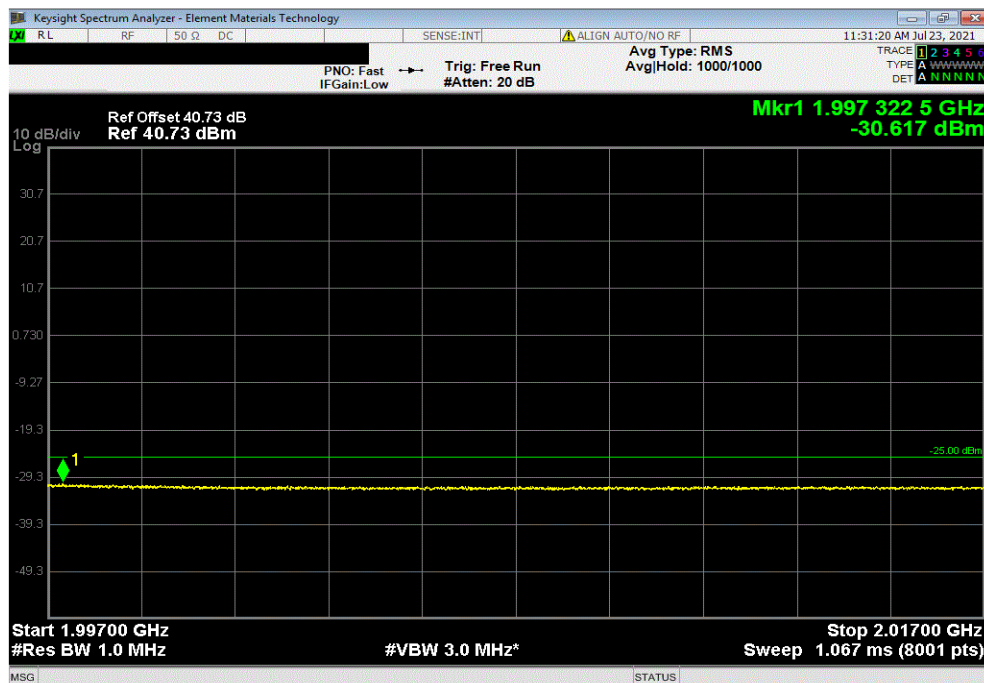


TbTtx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-31.38	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.62	-25	Pass			

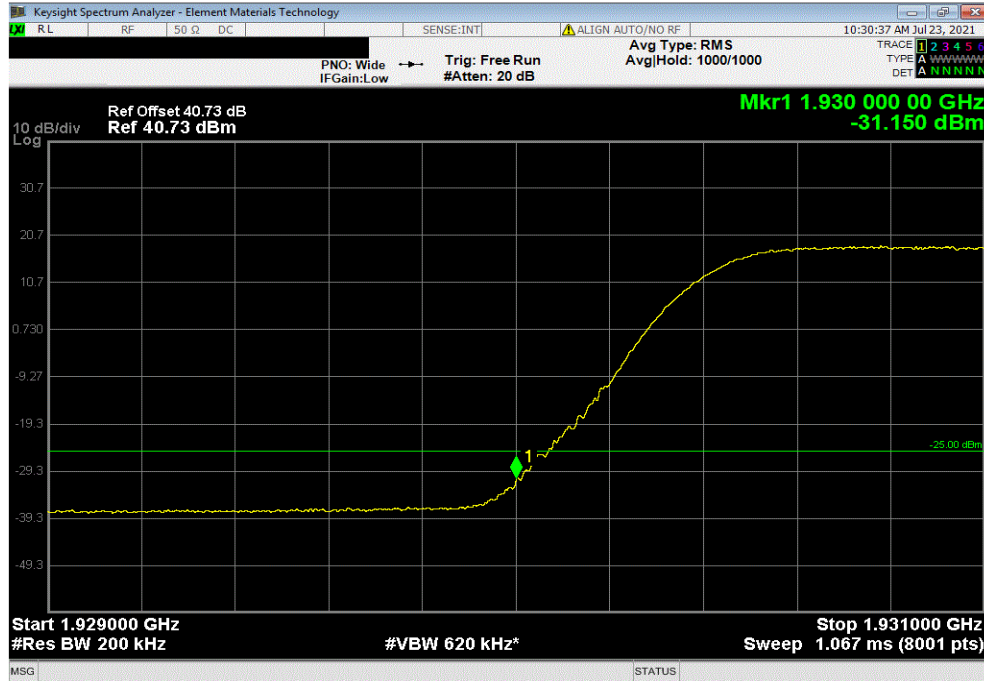


BAND EDGE COMPLIANCE

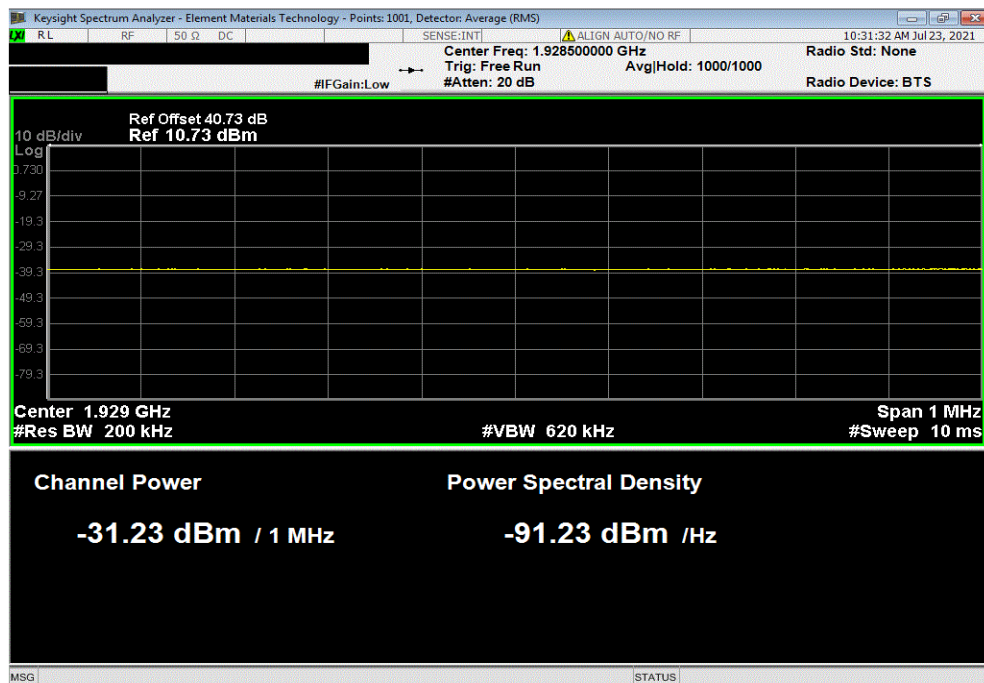


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-31.15		-25		Pass



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-31.23		-25		Pass

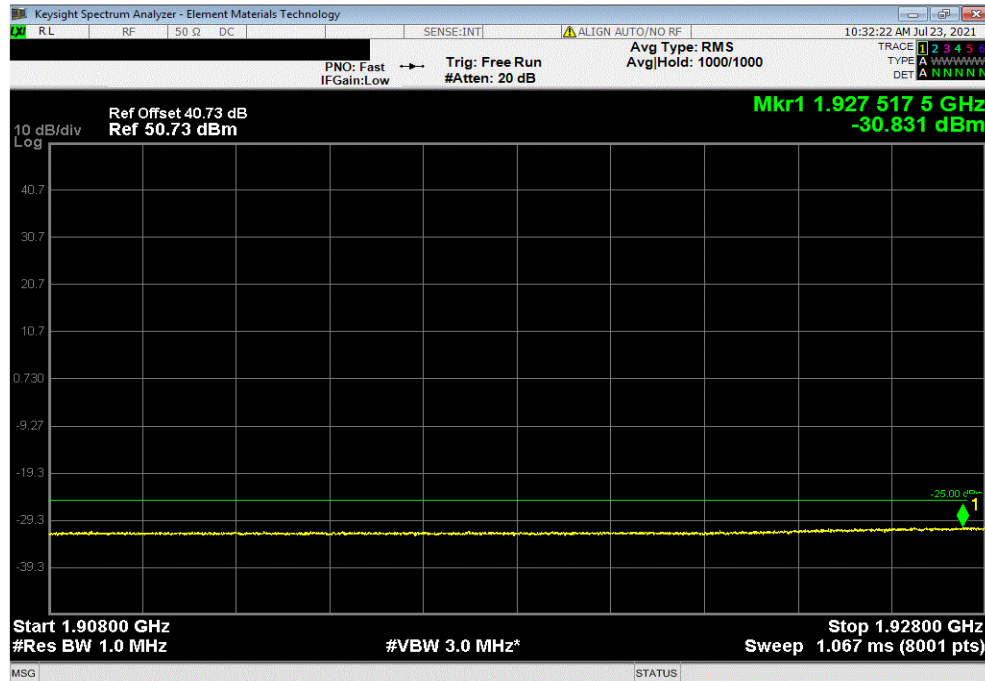


BAND EDGE COMPLIANCE

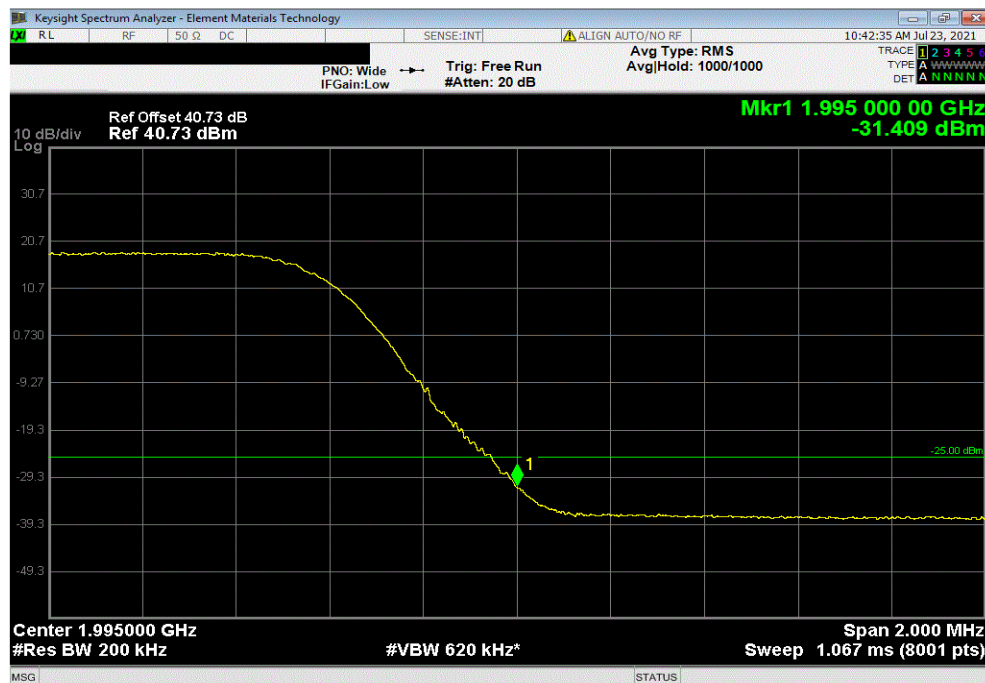


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.83	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-31.41	-25	Pass			

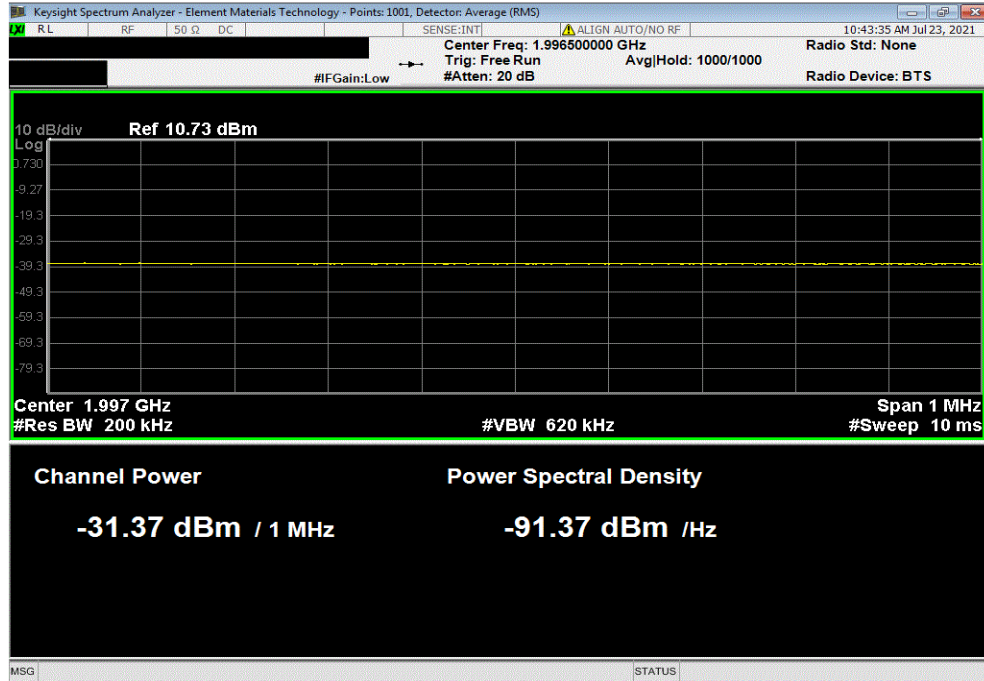


BAND EDGE COMPLIANCE



TbTx 2021.03.19.1 XMR 2020.12.30.0

Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-31.37	-25	Pass			



Band n25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.81	-25	Pass			

