

BAND EDGE COMPLIANCE



XMM 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
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Block - DC	Fairview Microwave	SD3379	AMM	2020-09-21	2021-09-21
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2021-03-11	2022-03-11

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 carrier transmit power levels were set to maximum for each channel bandwidth.

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

Per section 27.53(l)(1), For base station operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The limit is adjusted to -22 dBm [-13 dBm -10 log (8)] per FCC KDB 662911D01 v02r01 and ANSI C63.26-2015 section 6.4 because the BTS may operate as a 8 port MIMO transmitter. The resolution bandwidth to be used for band edge measurements are required to be >1% of the measured emission bandwidth per FCC 27.53(l)(1). A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided that the measured power is integrated over the full required measurement bandwidth (i.e.: 1MHz or 1% of measured emission bandwidth as specified).

The RF conducted emission testing was performed on one port. The AZQW antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the "Output Power - All Ports" report section) and antenna port 8 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.

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TW1Tx 2021.03.19.1 XM1R 2020.12.30.0

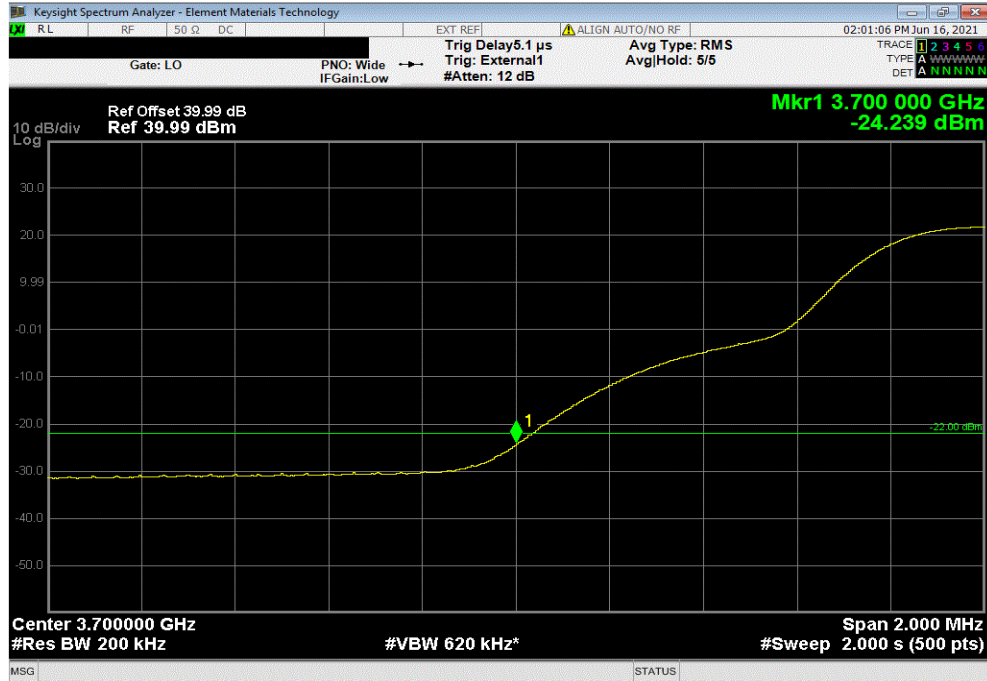
EUT: Aircscale Base Transceiver Station Remote Radio Head Model AZQW			Work Order: NOKI0028		
Serial Number: YK211100168			Date: 14-Jun-21		
Customer: Nokia Solutions and Networks			Temperature: 21.4 °C		
Attendees: John Rattanaovong, David Le			Humidity: 53.2% RH		
Project: None			Barometric Pres.: 1019 mbar		
Tested by: Brandon Hobbs		Power: 54VDC	Job Site: TX05		
TEST SPECIFICATIONS		Test Method			
FCC 27:2021		ANSI C63.26:2015			
COMMENTS					
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. External 1 gating was set using a trig delay = 86.2us and a gate length = 3.714ms. 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. The carrier power was set to maximum for all testing.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	2	Signature 			
		Frequency Range	Value (dBm)	Limit (dBm)	Result
Band n77, 3700 MHz - 3980 MHz, 5G NR					
Port 8					
20 MHz BW					
QPSK Modulation					
Low Ch. 3710.01 MHz		1	-24.2	-22	Pass
Low Ch. 3710.01 MHz		2	-25.0	-22	Pass
Low Ch. 3710.01 MHz		3	-23.7	-22	Pass
High Ch. 3969.99 MHz		1	-24.5	-22	Pass
High Ch. 3969.99 MHz		2	-24.6	-22	Pass
High Ch. 3969.99 MHz		3	-25.0	-22	Pass
16-QAM Modulation					
Low Ch. 3710.01 MHz		1	-22.8	-22	Pass
Low Ch. 3710.01 MHz		2	-25.1	-22	Pass
Low Ch. 3710.01 MHz		3	-25.0	-22	Pass
High Ch. 3969.99 MHz		1	-28.2	-22	Pass
High Ch. 3969.99 MHz		2	-24.6	-22	Pass
High Ch. 3969.99 MHz		3	-24.7	-22	Pass
64-QAM Modulation					
Low Ch. 3710.01 MHz		1	-25.9	-22	Pass
Low Ch. 3710.01 MHz		2	-25.5	-22	Pass
Low Ch. 3710.01 MHz		3	-24.6	-22	Pass
High Ch. 3969.99 MHz		1	-24.6	-22	Pass
High Ch. 3969.99 MHz		2	-25.1	-22	Pass
High Ch. 3969.99 MHz		3	-24.9	-22	Pass
256-QAM Modulation					
Low Ch. 3710.01 MHz		1	-25.7	-22	Pass
Low Ch. 3710.01 MHz		2	-25.3	-22	Pass
Low Ch. 3710.01 MHz		3	-24.3	-22	Pass
High Ch. 3969.99 MHz		1	-23.5	-22	Pass
High Ch. 3969.99 MHz		2	-25.2	-22	Pass
High Ch. 3969.99 MHz		3	-24.9	-22	Pass
40 MHz BW					
QPSK Modulation					
Low Ch. 3720 MHz		1	-22.9	-22	Pass
Low Ch. 3720 MHz		2	-23.0	-22	Pass
Low Ch. 3720 MHz		3	-22.5	-22	Pass
High Ch. 3960 MHz		1	-23.7	-22	Pass
High Ch. 3960 MHz		2	-23.5	-22	Pass
High Ch. 3960 MHz		3	-22.8	-22	Pass
16-QAM Modulation					
Low Ch. 3720 MHz		1	-24.4	-22	Pass
Low Ch. 3720 MHz		2	-23.0	-22	Pass
Low Ch. 3720 MHz		3	-22.5	-22	Pass
High Ch. 3960 MHz		1	-24.4	-22	Pass
High Ch. 3960 MHz		2	-22.4	-22	Pass
High Ch. 3960 MHz		3	-23.3	-22	Pass
64-QAM Modulation					
Low Ch. 3720 MHz		1	-23.3	-22	Pass
Low Ch. 3720 MHz		2	-23.0	-22	Pass
Low Ch. 3720 MHz		3	-22.3	-22	Pass
High Ch. 3960 MHz		1	-24.3	-22	Pass
High Ch. 3960 MHz		2	-23.3	-22	Pass
High Ch. 3960 MHz		3	-22.9	-22	Pass
256-QAM Modulation					
Low Ch. 3720 MHz		1	-23.7	-22	Pass
Low Ch. 3720 MHz		2	-22.7	-22	Pass
Low Ch. 3720 MHz		3	-22.3	-22	Pass
High Ch. 3960 MHz		1	-23.9	-22	Pass
High Ch. 3960 MHz		2	-23.7	-22	Pass
High Ch. 3960 MHz		3	-23.0	-22	Pass
60 MHz BW					
QPSK Modulation					
Low Ch. 3730.02 MHz		1	-23.7	-22	Pass
Low Ch. 3730.02 MHz		2	-23.9	-22	Pass
Low Ch. 3730.02 MHz		3	-22.3	-22	Pass
Low Ch. 3730.02 MHz		4	-22.3	-22	Pass
Low Ch. 3730.02 MHz		5	-23.2	-22	Pass
Low Ch. 3730.02 MHz		6	-23.0	-22	Pass
High Ch. 3949.98 MHz		1	-24.2	-22	Pass
High Ch. 3949.98 MHz		2	-24.5	-22	Pass
High Ch. 3949.98 MHz		3	-22.7	-22	Pass
High Ch. 3949.98 MHz		4	-22.4	-22	Pass
16-QAM Modulation					
Low Ch. 3730.02 MHz		1	-23.5	-22	Pass
Low Ch. 3730.02 MHz		2	-24.5	-22	Pass
Low Ch. 3730.02 MHz		3	-22.2	-22	Pass

BAND EDGE COMPLIANCE

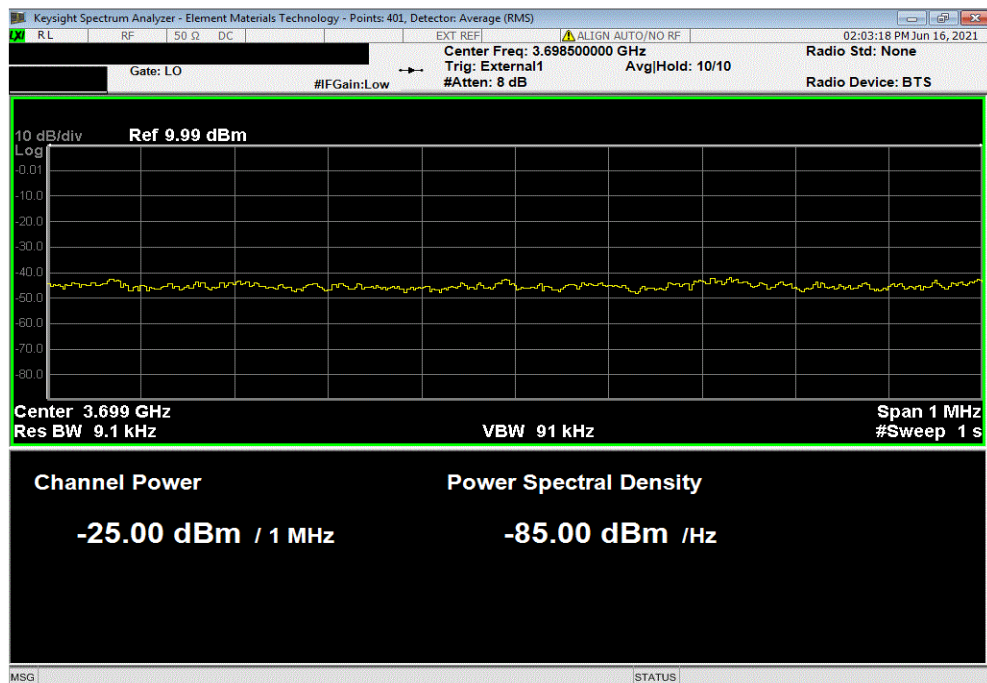


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, QPSK Modulation, Low Ch.3710.01 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-24.24	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, QPSK Modulation, Low Ch.3710.01 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-25.00	-22	Pass

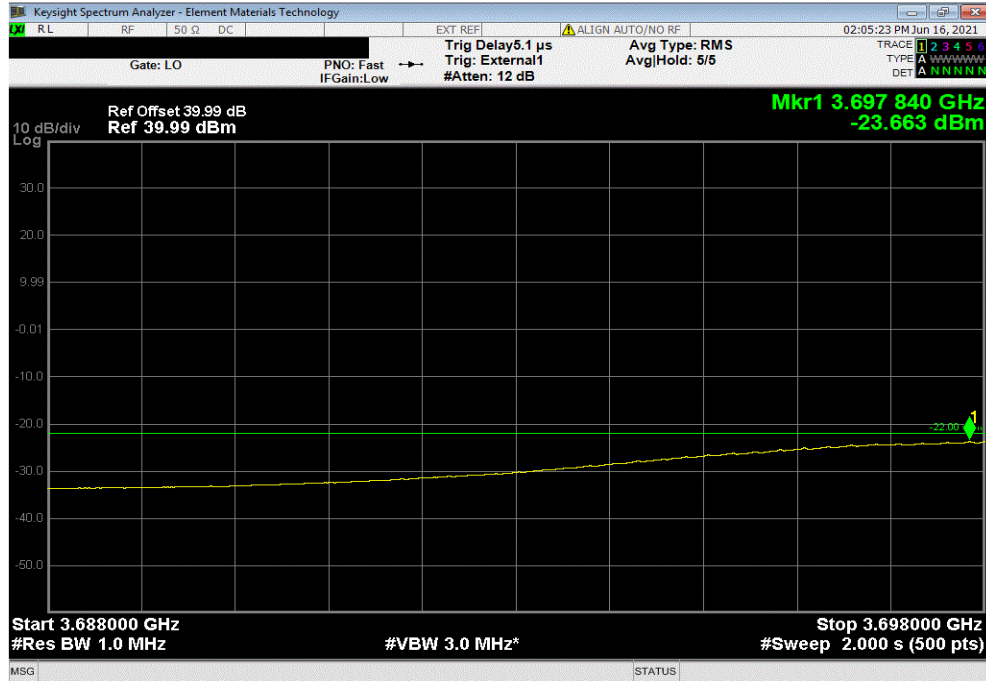


BAND EDGE COMPLIANCE

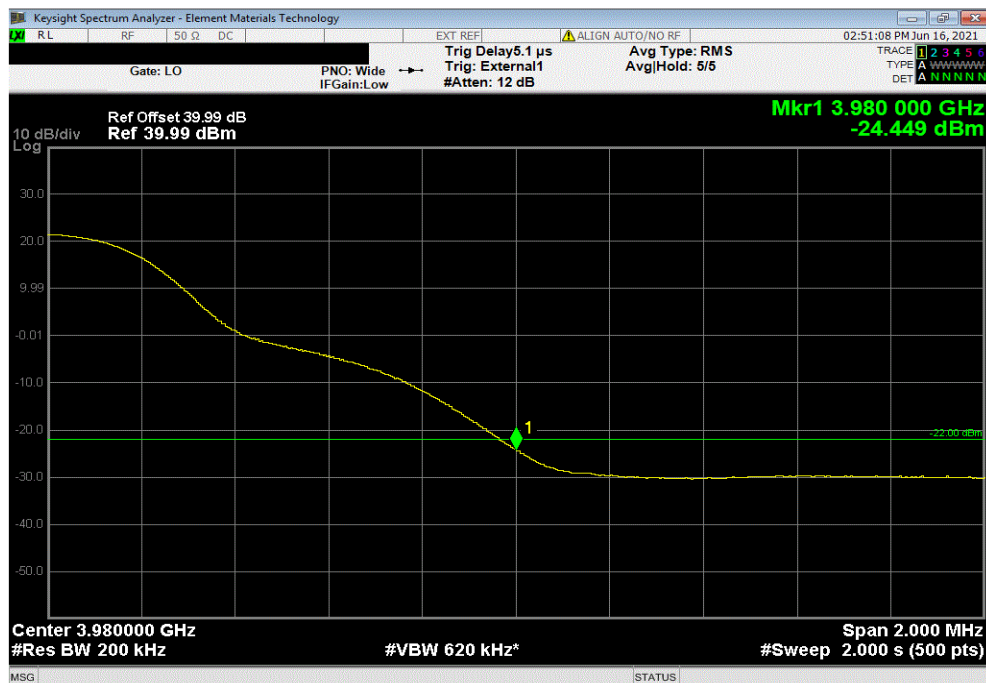


TbTtX 2021.03.19.1 XMtX 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, QPSK Modulation, Low Ch.3710.01 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-23.66	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, QPSK Modulation, High Ch. 3969.99 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-24.45	-22	Pass

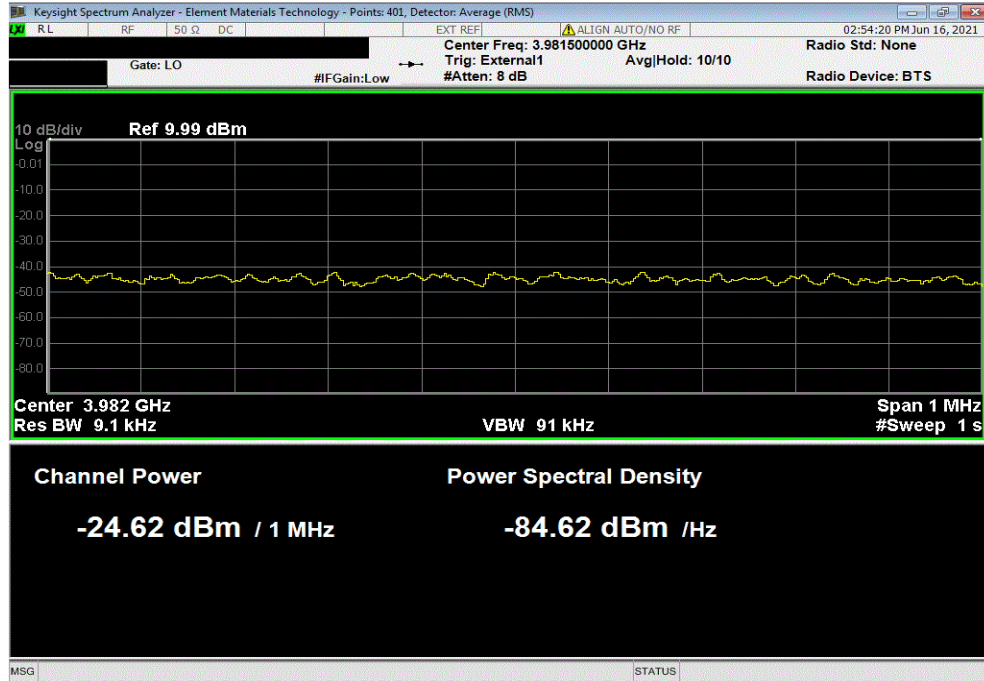


BAND EDGE COMPLIANCE

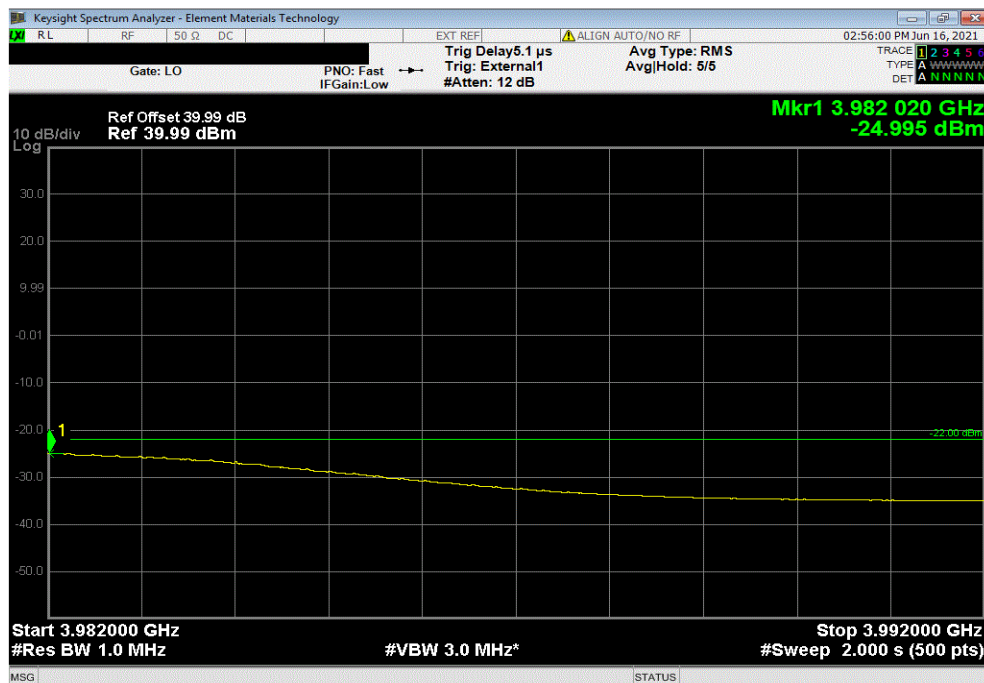


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, QPSK Modulation, High Ch. 3969.99 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
	2		-24.62		-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, QPSK Modulation, High Ch. 3969.99 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
	3		-25.00		-22	Pass

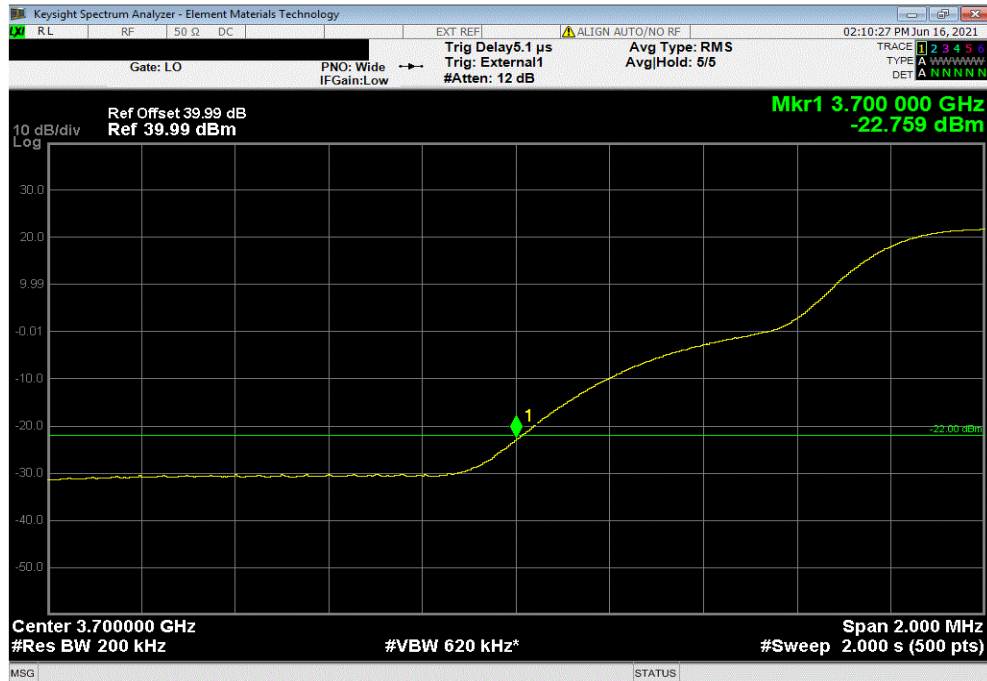


BAND EDGE COMPLIANCE

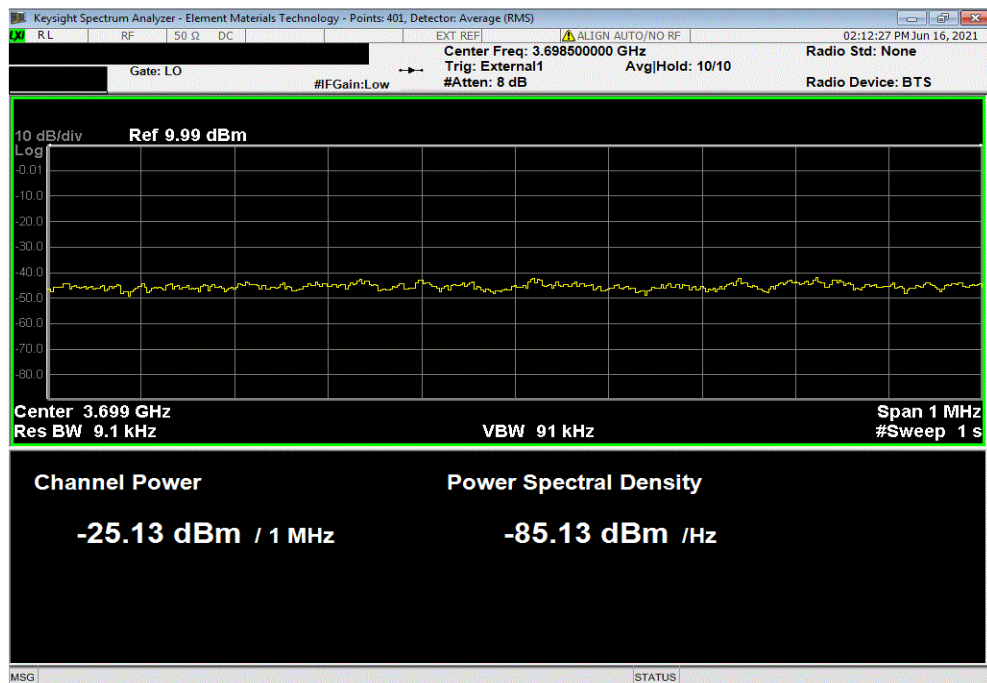


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 16-QAM Modulation, Low Ch.3710.01 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-22.76	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 16-QAM Modulation, Low Ch.3710.01 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-25.13	-22	Pass



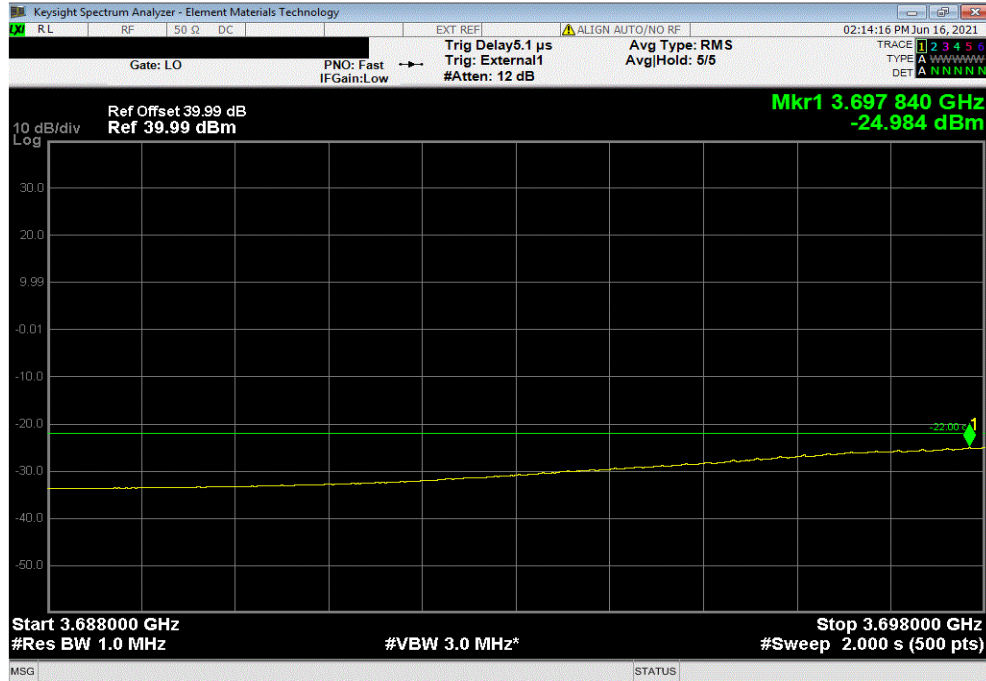
BAND EDGE COMPLIANCE



TbTx 2021.03.19.1 XMt 2020.12.30.0

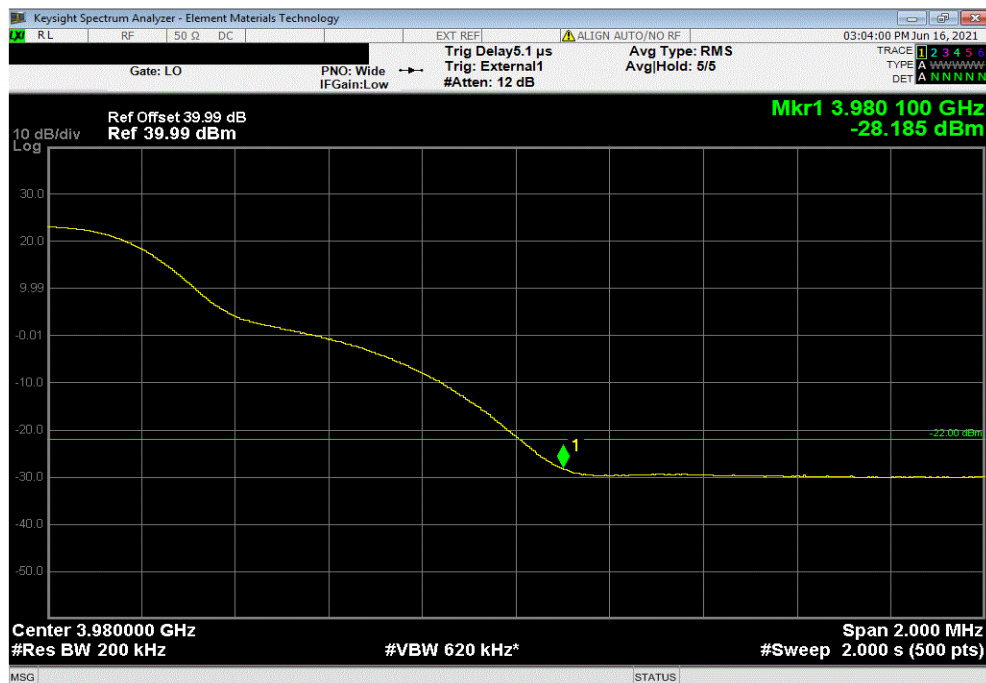
Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 16-QAM Modulation, Low Ch.3710.01 MHz

Frequency				Value (dBm)		Limit (dBm)	Result
Range							
		3				-24.98	-22
							Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 16-QAM Modulation, High Ch. 3969.99 MHz

Frequency				Value (dBm)		Limit (dBm)	Result
Range							
		1				-28.19	-22
							Pass

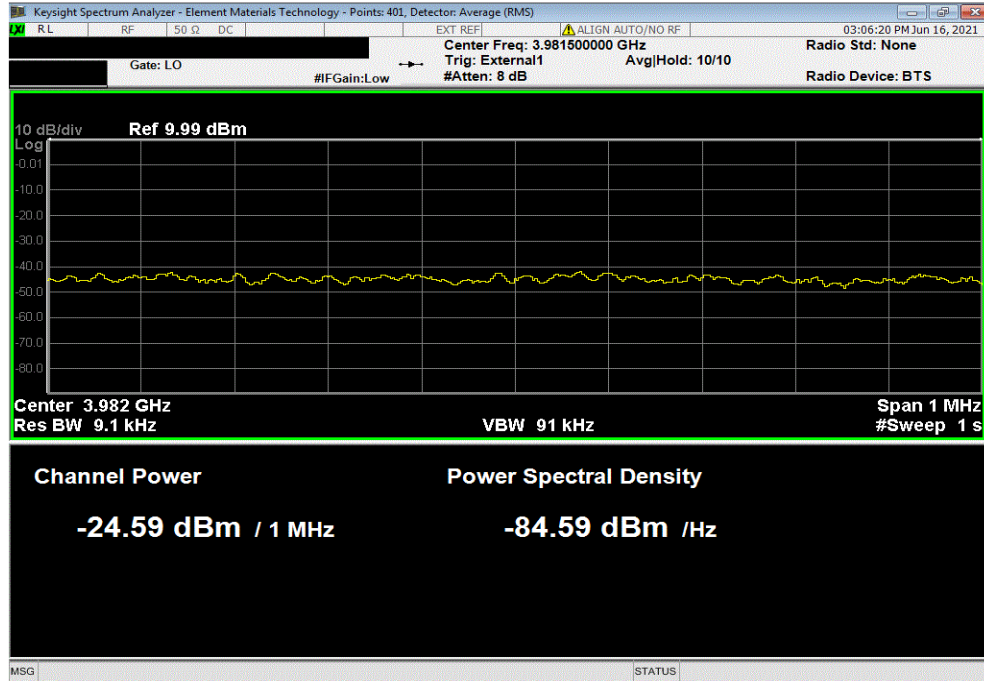


BAND EDGE COMPLIANCE

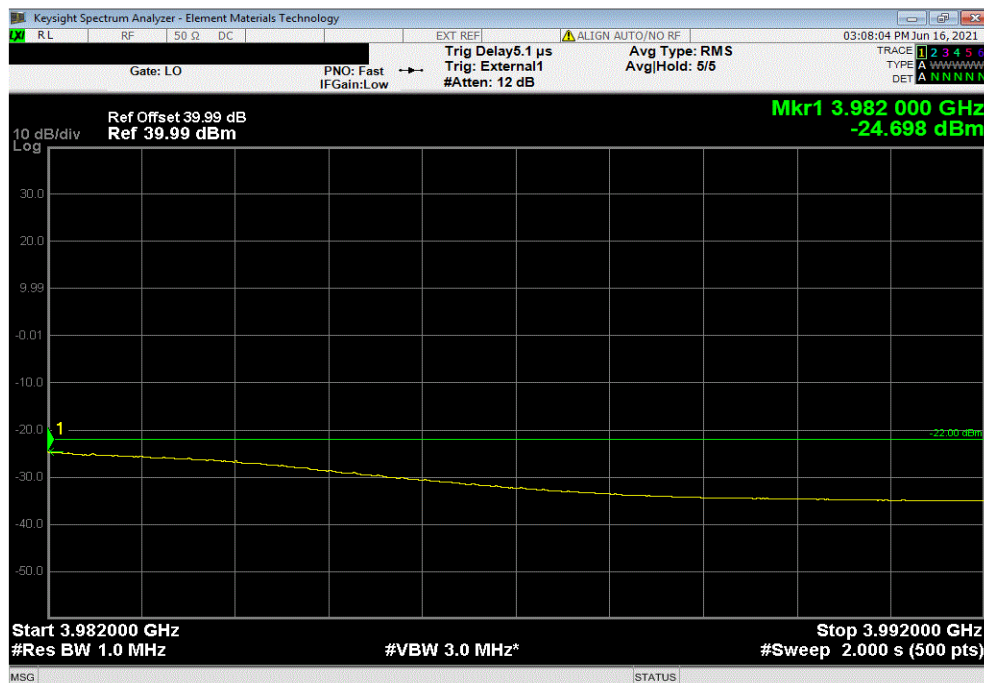


TbTtX 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 16-QAM Modulation, High Ch. 3969.99 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
		2		-24.59	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 16-QAM Modulation, High Ch. 3969.99 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
		3		-24.70	-22	Pass

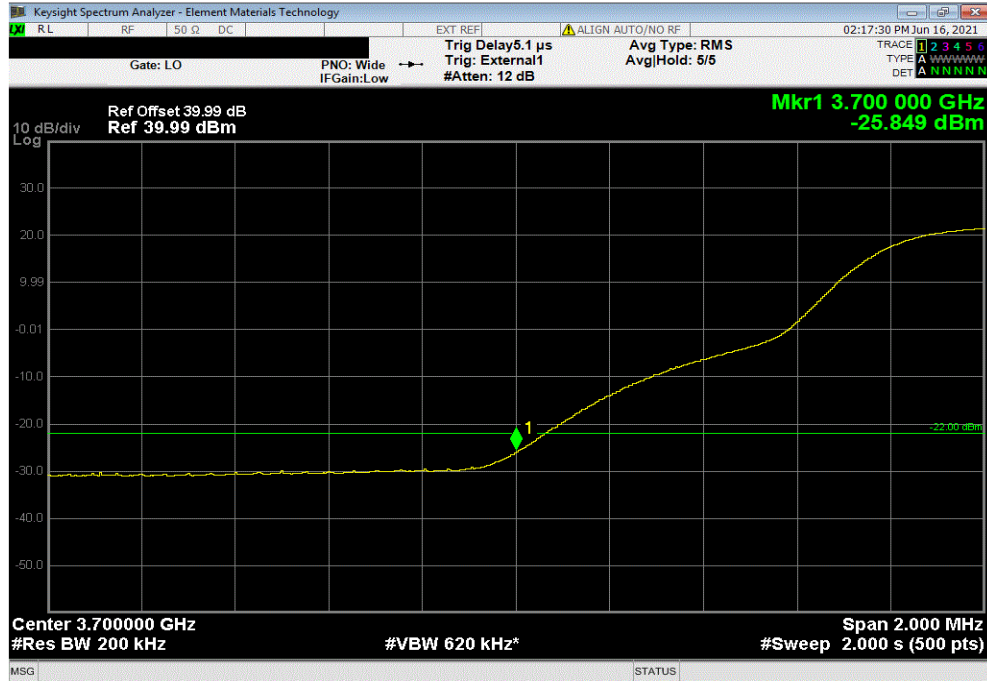


BAND EDGE COMPLIANCE

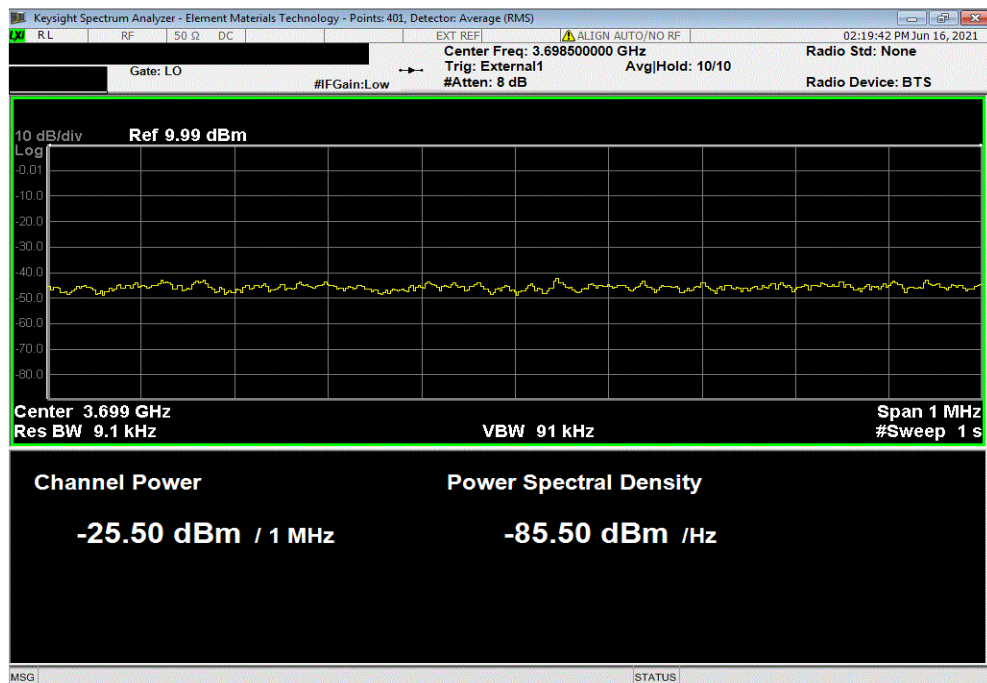


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 64-QAM Modulation, Low Ch.3710.01 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-25.85	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 64-QAM Modulation, Low Ch.3710.01 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-25.50	-22	Pass

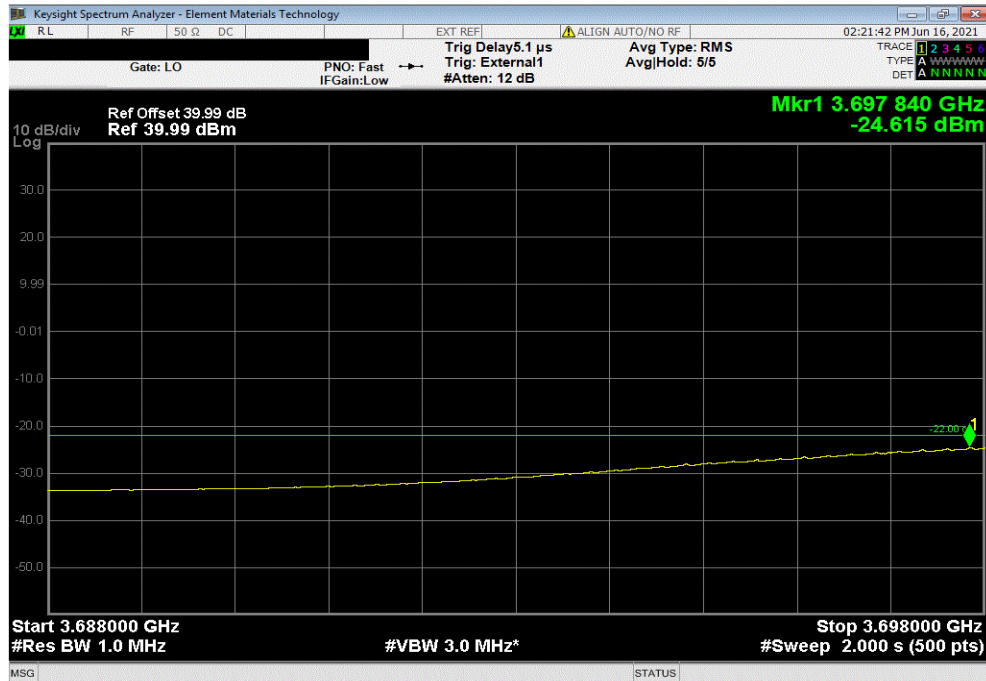


BAND EDGE COMPLIANCE

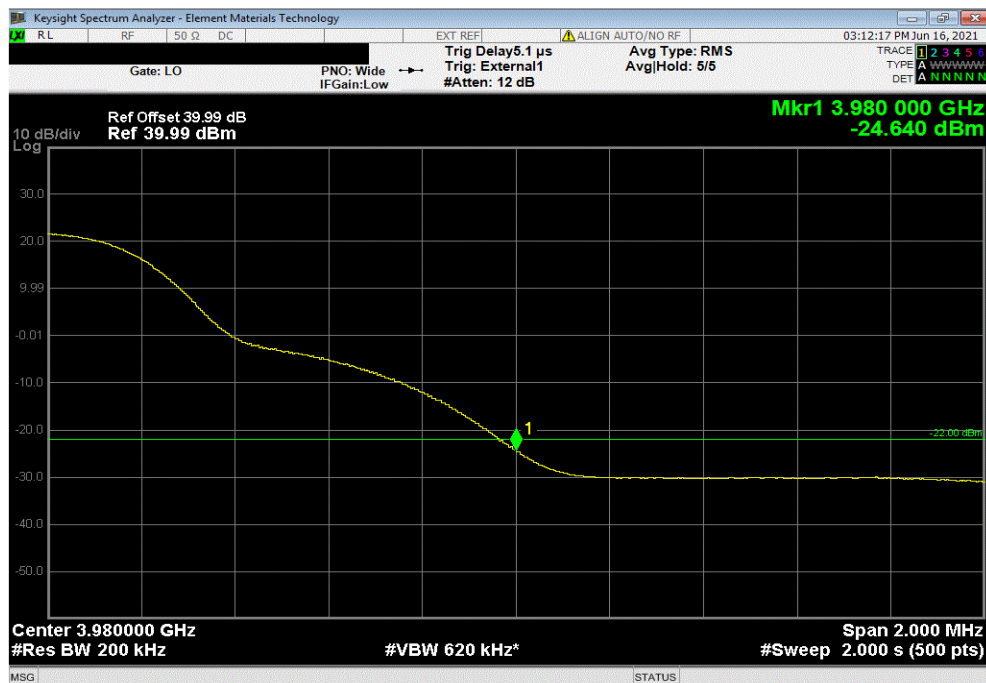


TbTtx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 64-QAM Modulation, Low Ch.3710.01 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-24.62	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 64-QAM Modulation, High Ch. 3969.99 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-24.64	-22	Pass

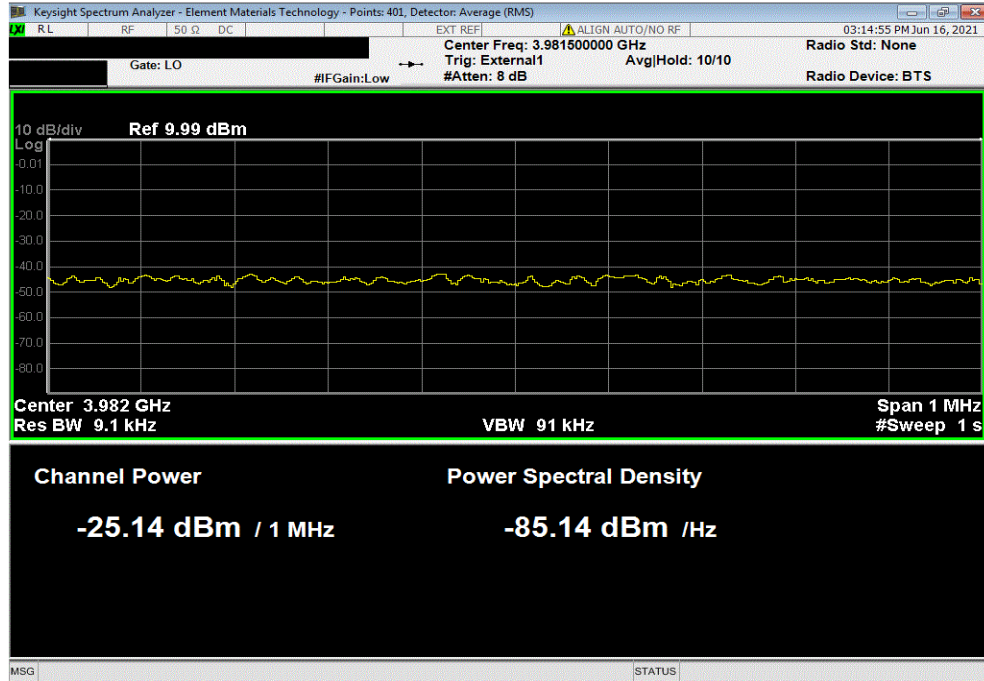


BAND EDGE COMPLIANCE

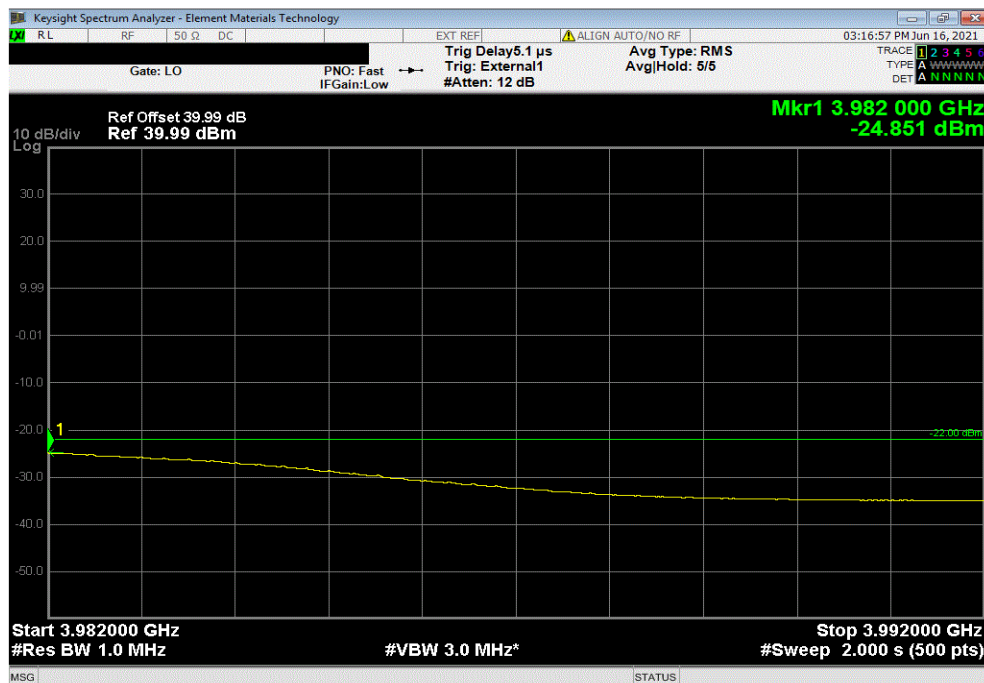


TbTtx 2021.03.19.1 XMR 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 64-QAM Modulation, High Ch. 3969.99 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
		2		-25.14	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 64-QAM Modulation, High Ch. 3969.99 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
		3		-24.85	-22	Pass

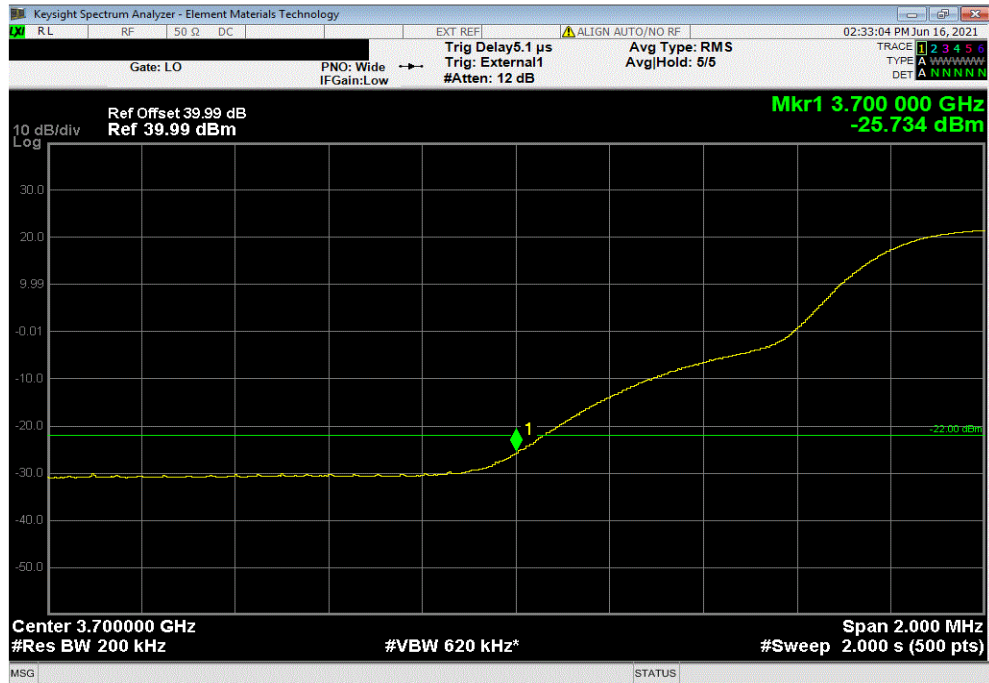


BAND EDGE COMPLIANCE

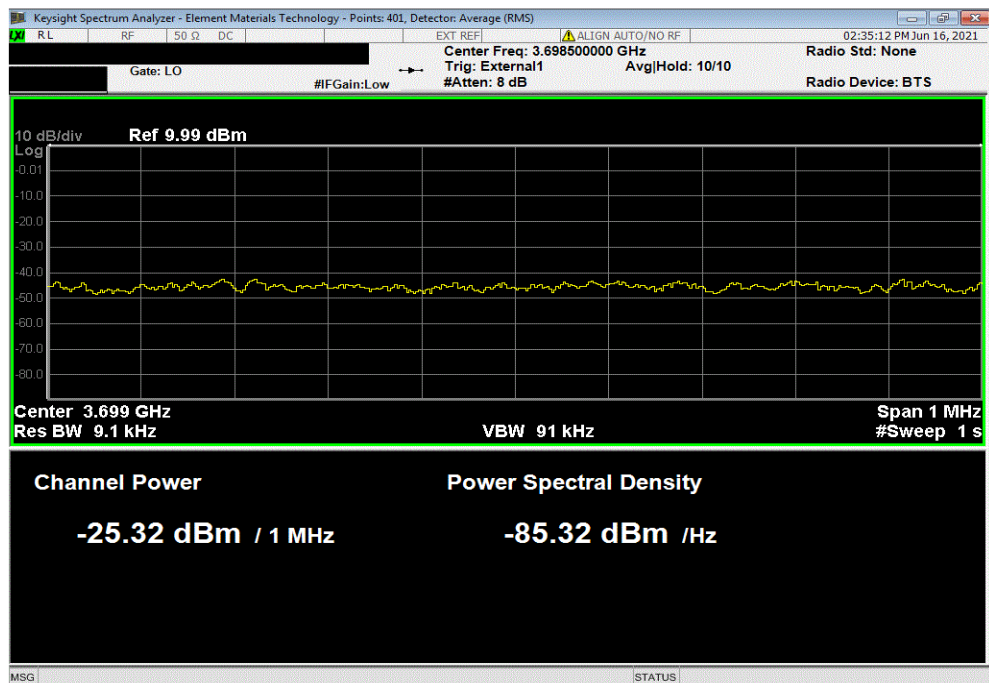


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 256-QAM Modulation, Low Ch.3710.01 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-25.73	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 256-QAM Modulation, Low Ch.3710.01 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-25.32	-22	Pass

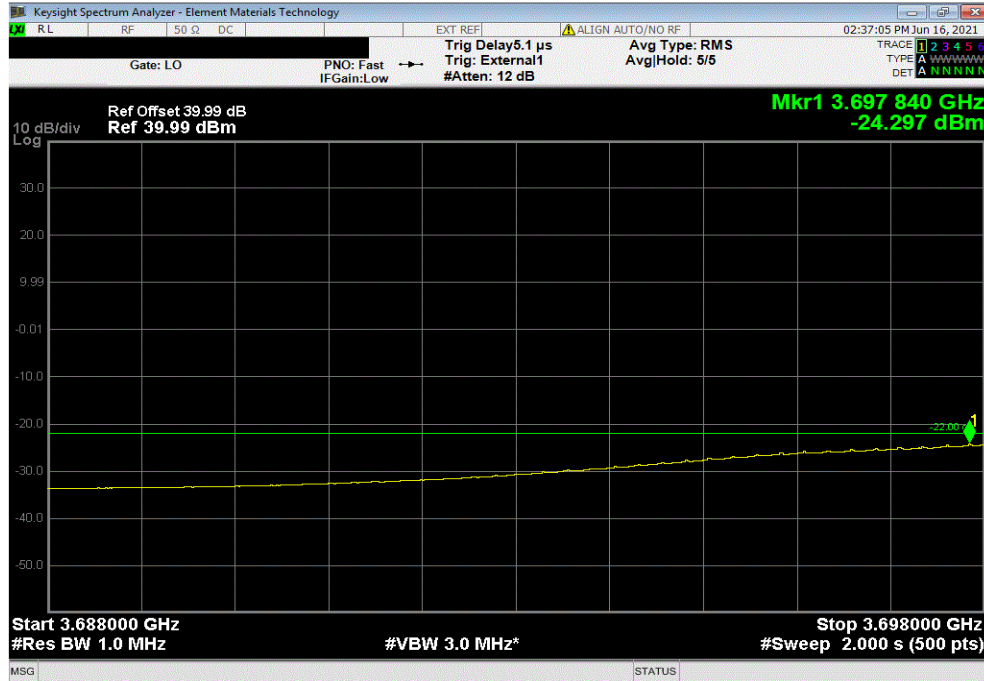


BAND EDGE COMPLIANCE

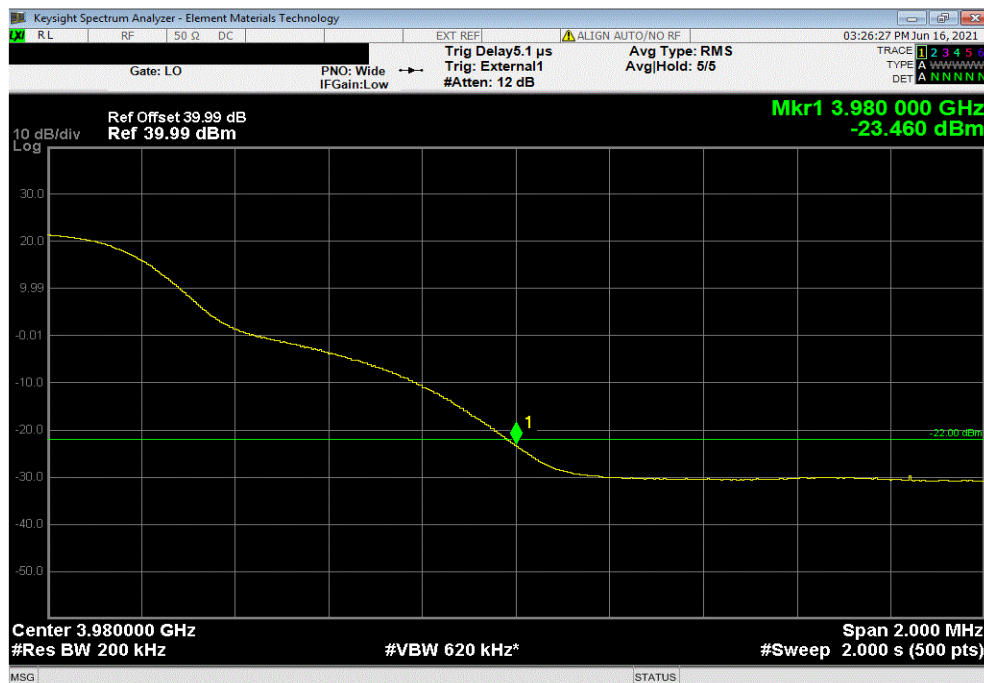


TbTx 2021.03.19.1 XMtX 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 256-QAM Modulation, Low Ch.3710.01 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-24.30	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 256-QAM Modulation, High Ch. 3969.99 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-23.46	-22	Pass

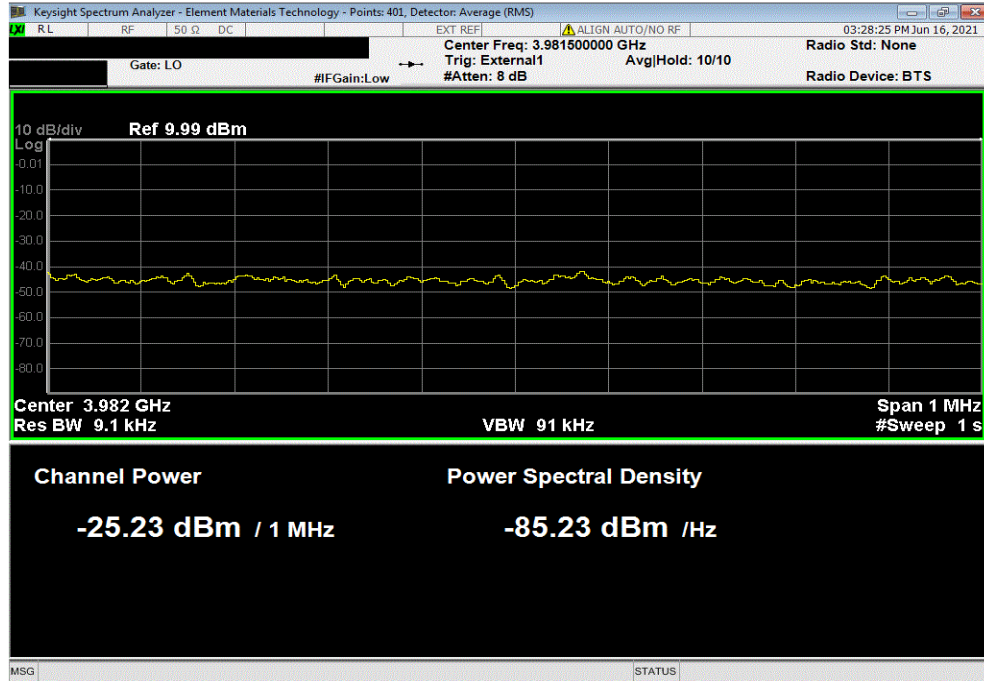


BAND EDGE COMPLIANCE

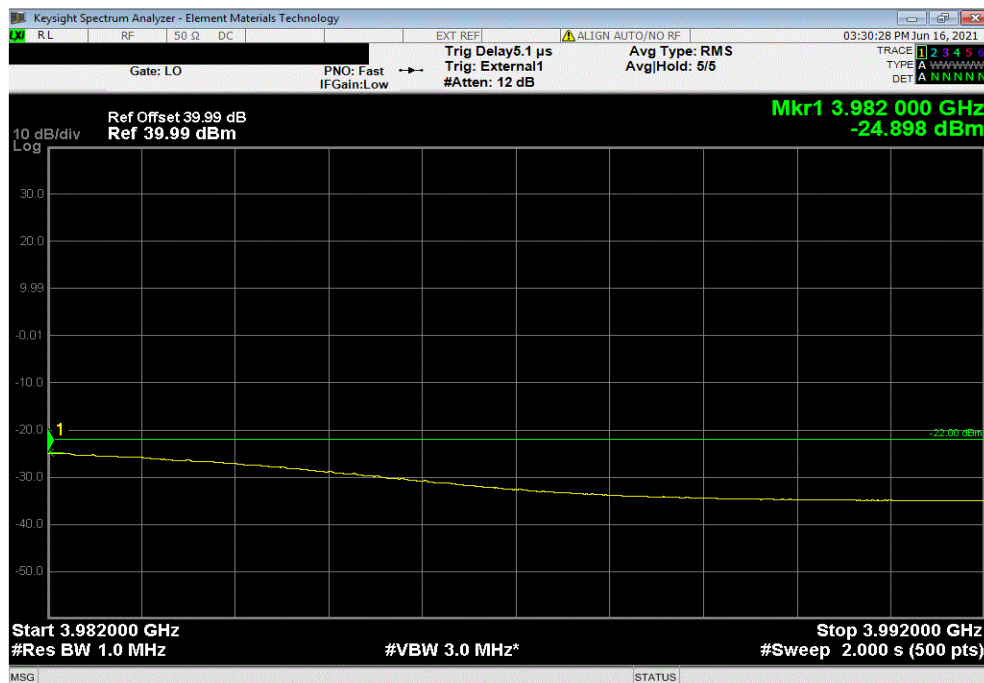


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 256-QAM Modulation, High Ch. 3969.99 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
2		-25.23		-22	Pass	



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 20 MHz BW, 256-QAM Modulation, High Ch. 3969.99 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
3		-24.90		-22	Pass	

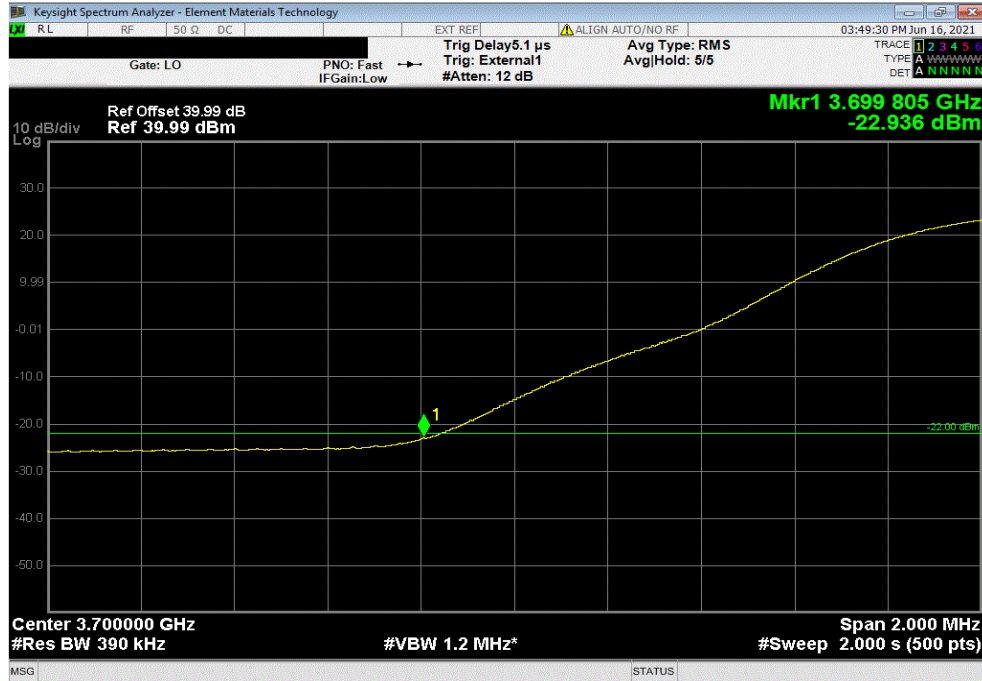


BAND EDGE COMPLIANCE

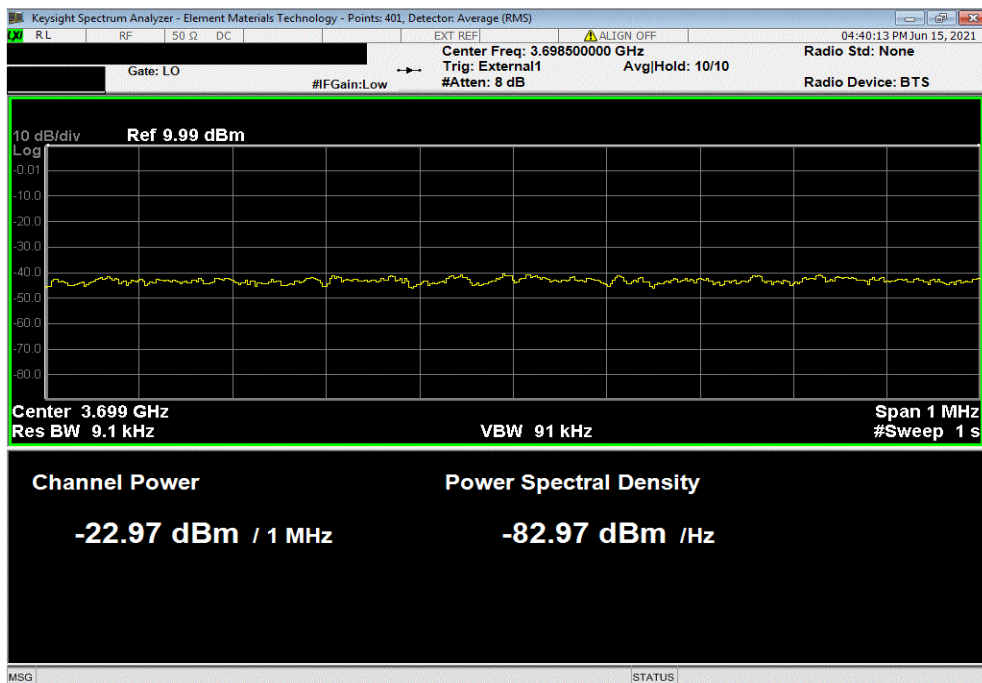


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, QPSK Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-22.94	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, QPSK Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-22.97	-22	Pass

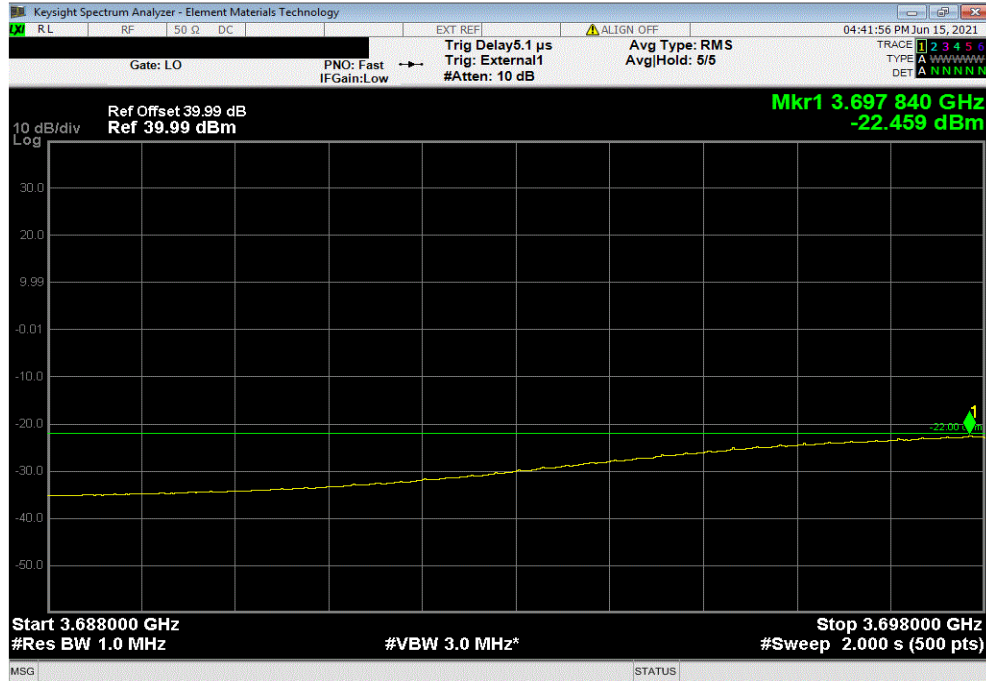


BAND EDGE COMPLIANCE



TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, QPSK Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-22.46	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, QPSK Modulation, High Ch. 3960 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-23.72	-22	Pass

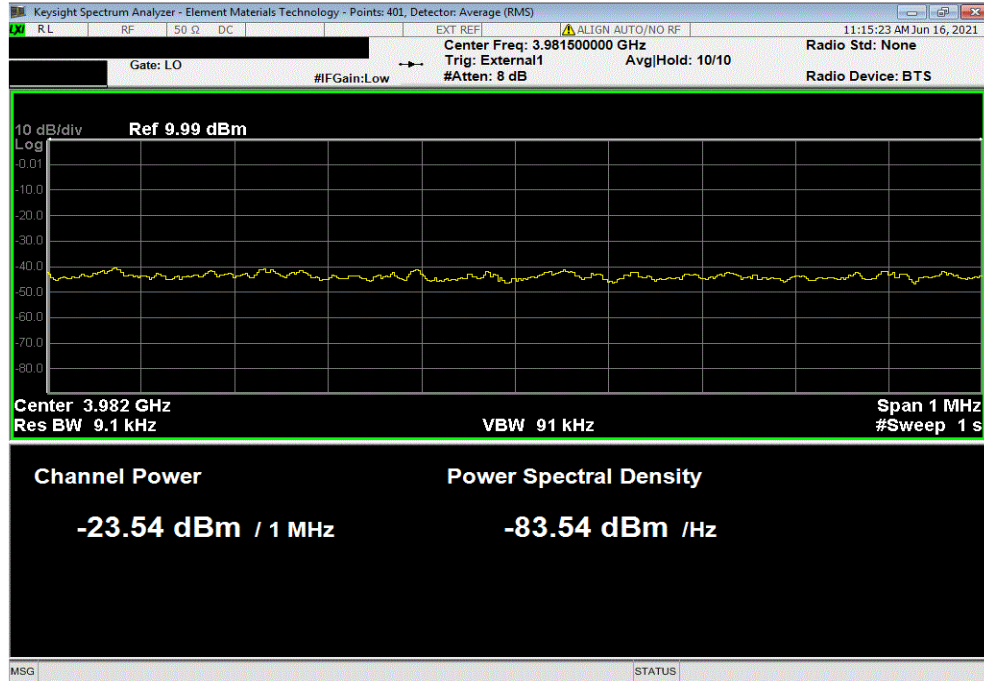


BAND EDGE COMPLIANCE

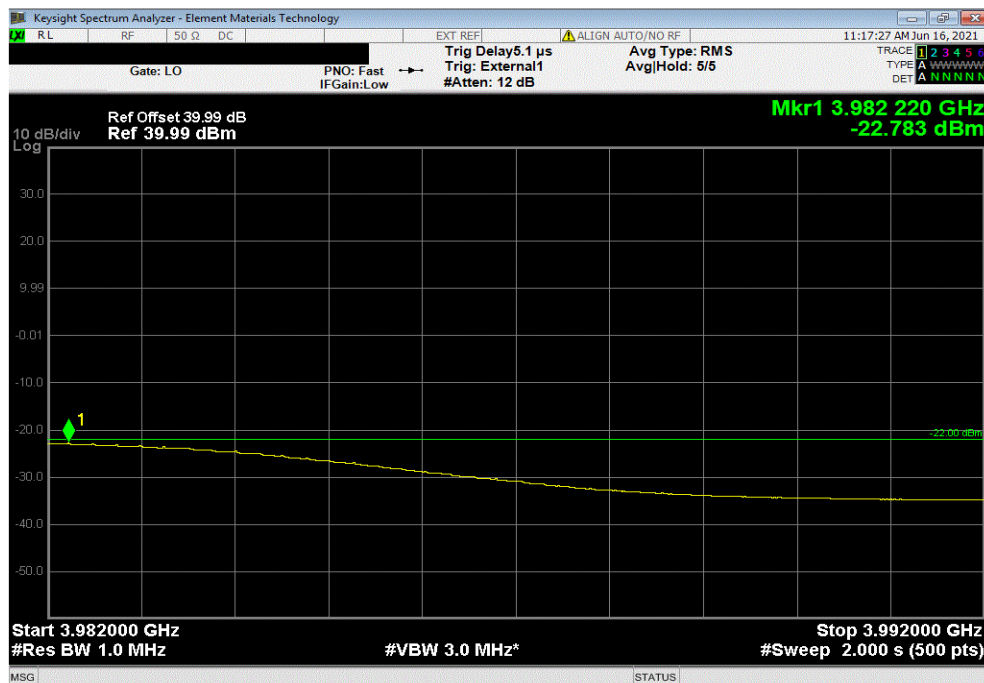


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, QPSK Modulation, High Ch. 3960 MHz						
Frequency						
Range		Value (dBm)		Limit (dBm)	Result	
2		-23.54		-22	Pass	



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, QPSK Modulation, High Ch. 3960 MHz						
Frequency						
Range		Value (dBm)		Limit (dBm)	Result	
3		-22.78		-22	Pass	

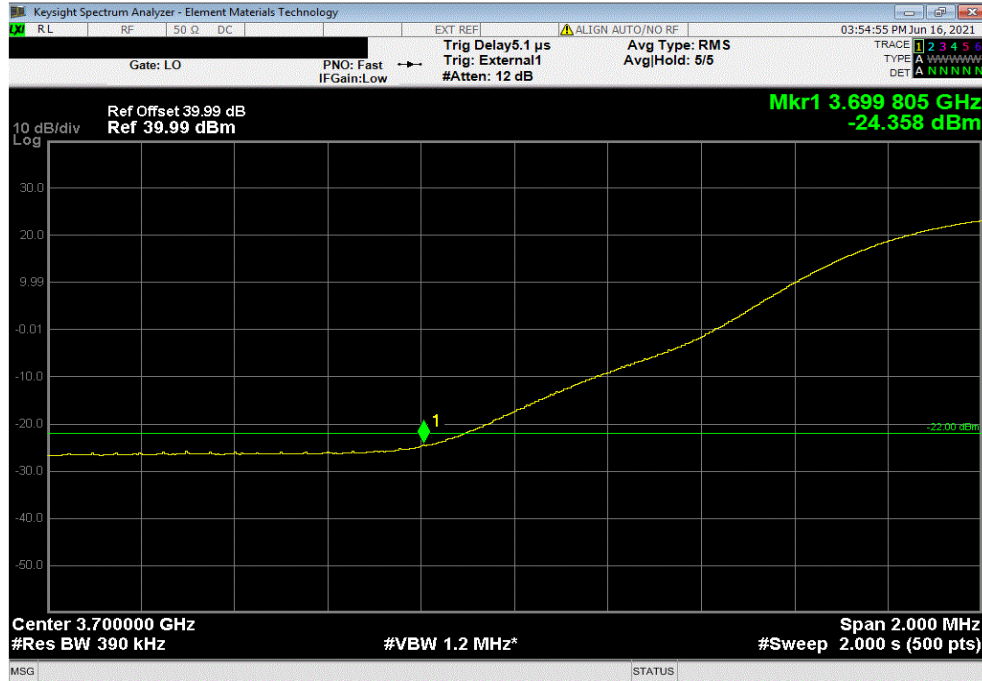


BAND EDGE COMPLIANCE

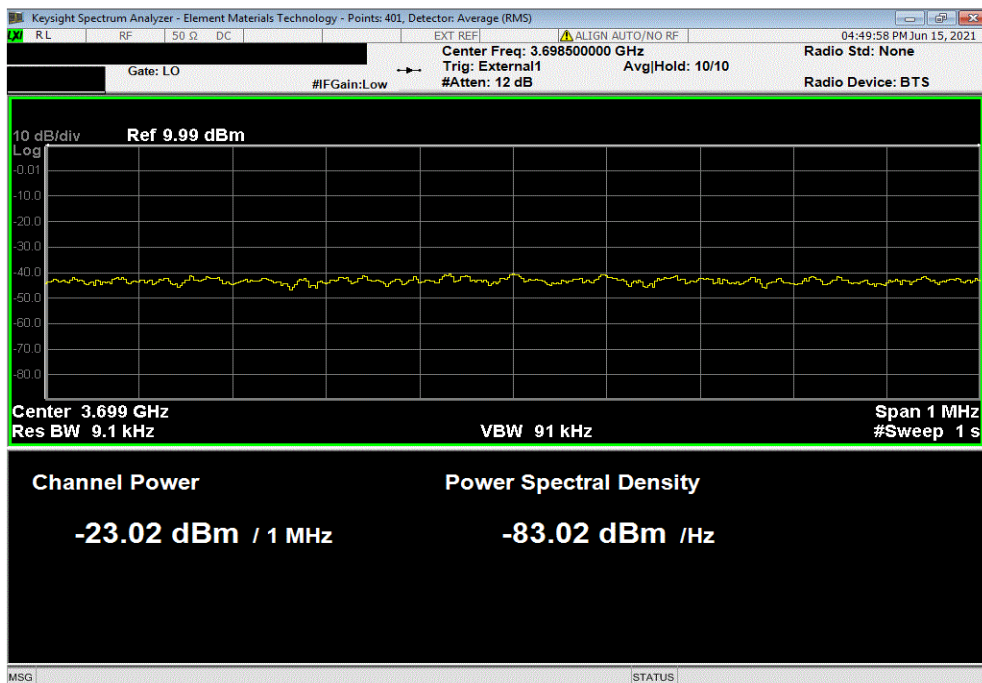


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 16-QAM Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-24.36	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 16-QAM Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-23.02	-22	Pass

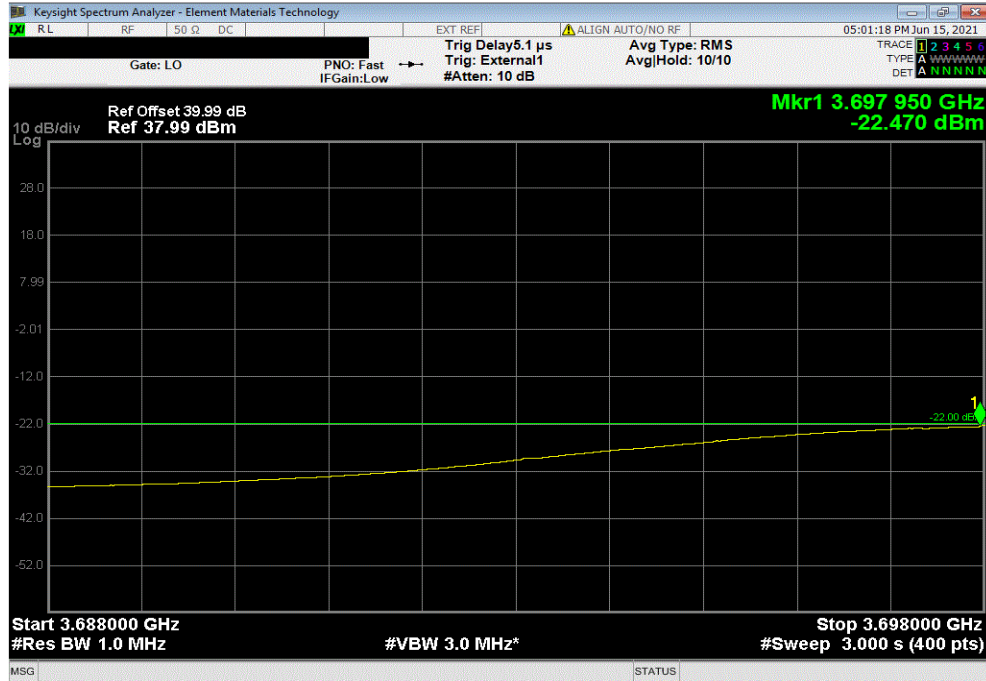


BAND EDGE COMPLIANCE

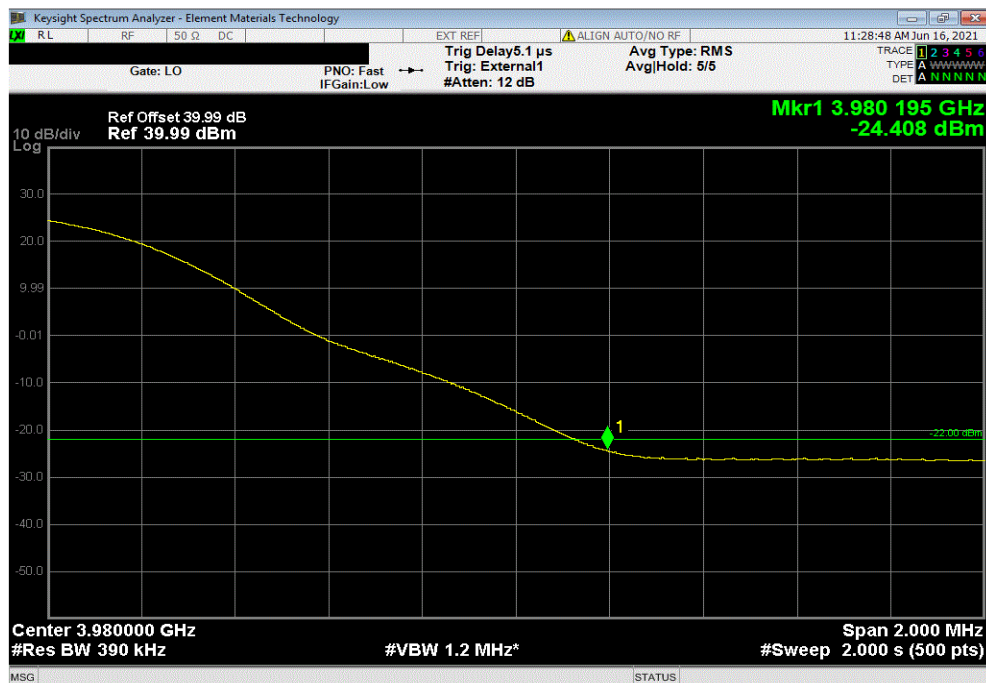


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 16-QAM Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-22.47	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 16-QAM Modulation, High Ch. 3960 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-24.41	-22	Pass

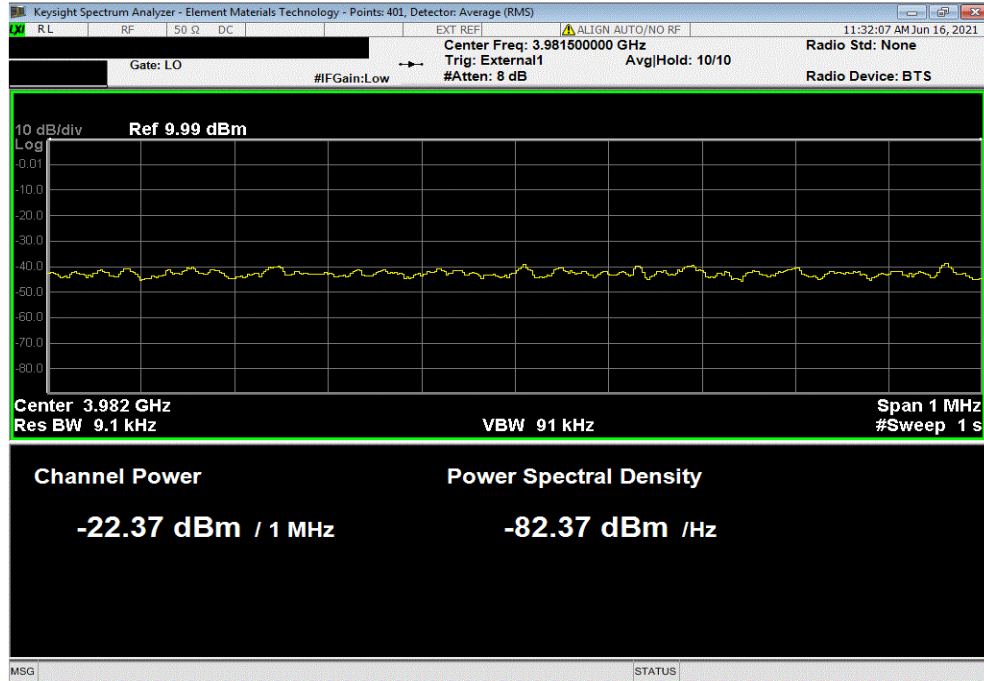


BAND EDGE COMPLIANCE

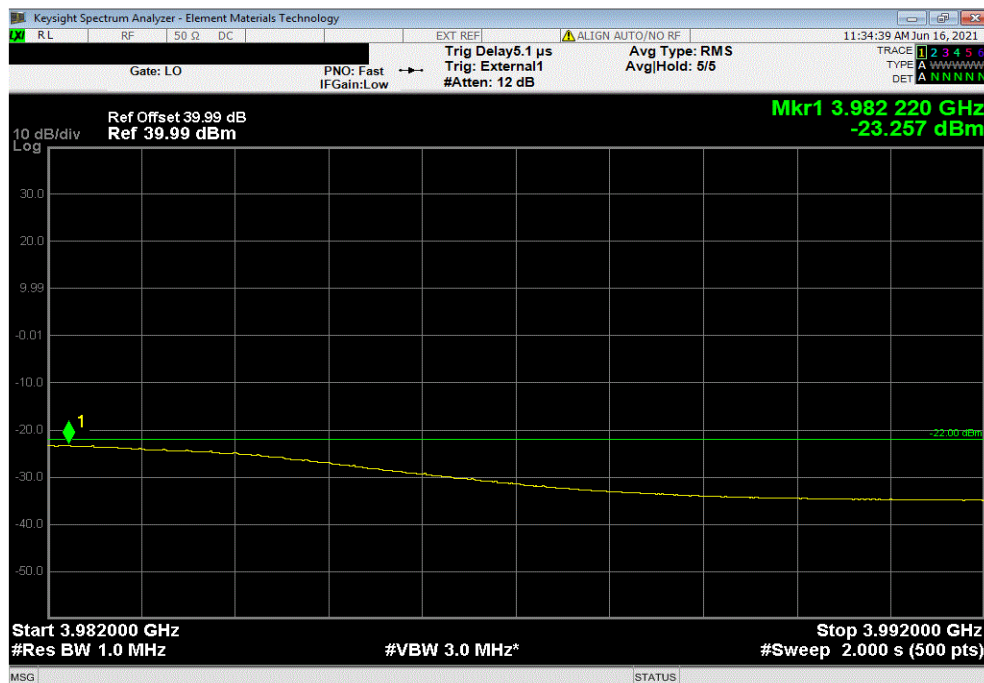


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 16-QAM Modulation, High Ch. 3960 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
		2		-22.37	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 16-QAM Modulation, High Ch. 3960 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
		3		-23.26	-22	Pass

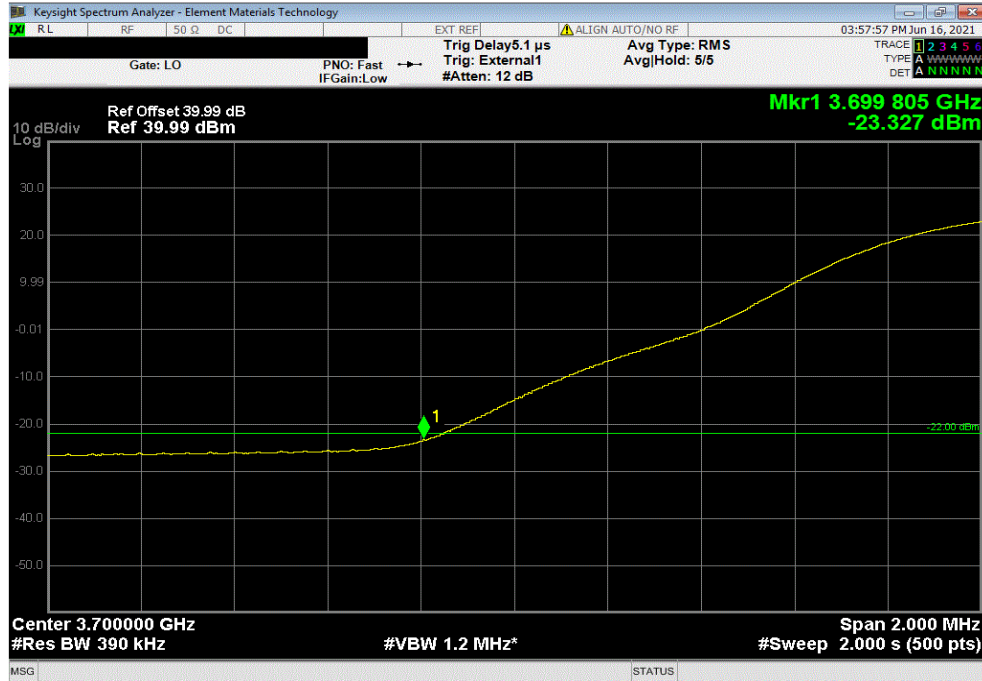


BAND EDGE COMPLIANCE

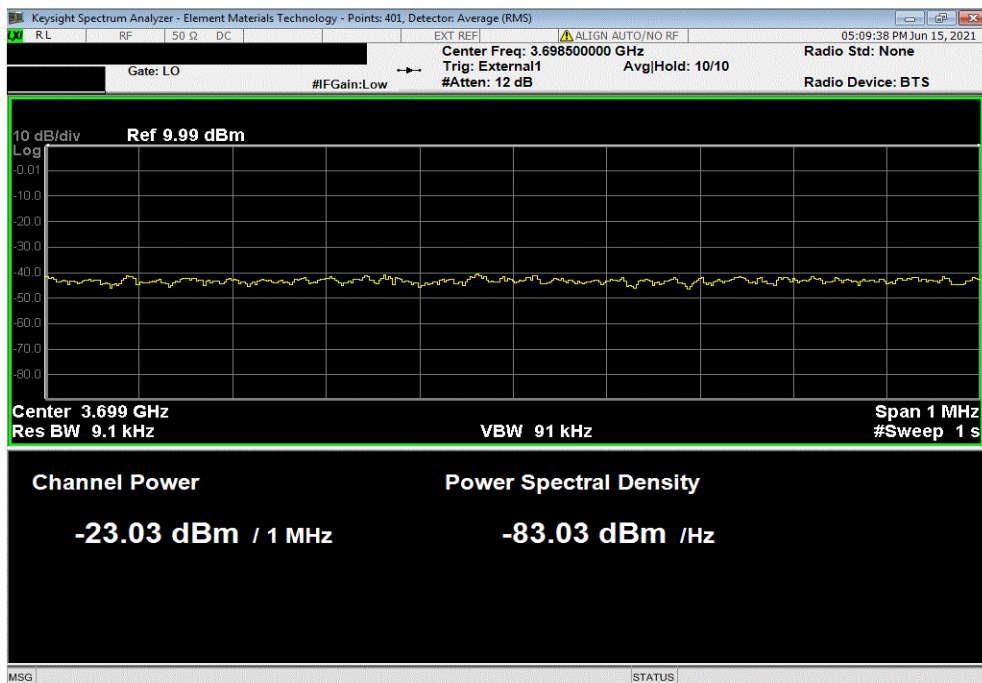


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 64-QAM Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-23.33	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 64-QAM Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-23.03	-22	Pass

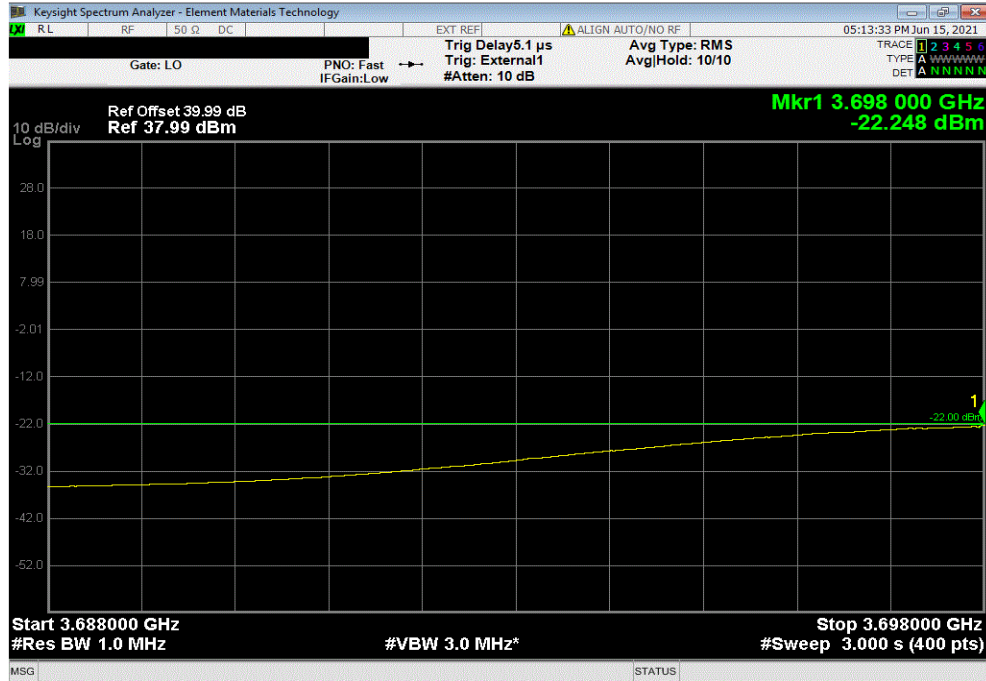


BAND EDGE COMPLIANCE

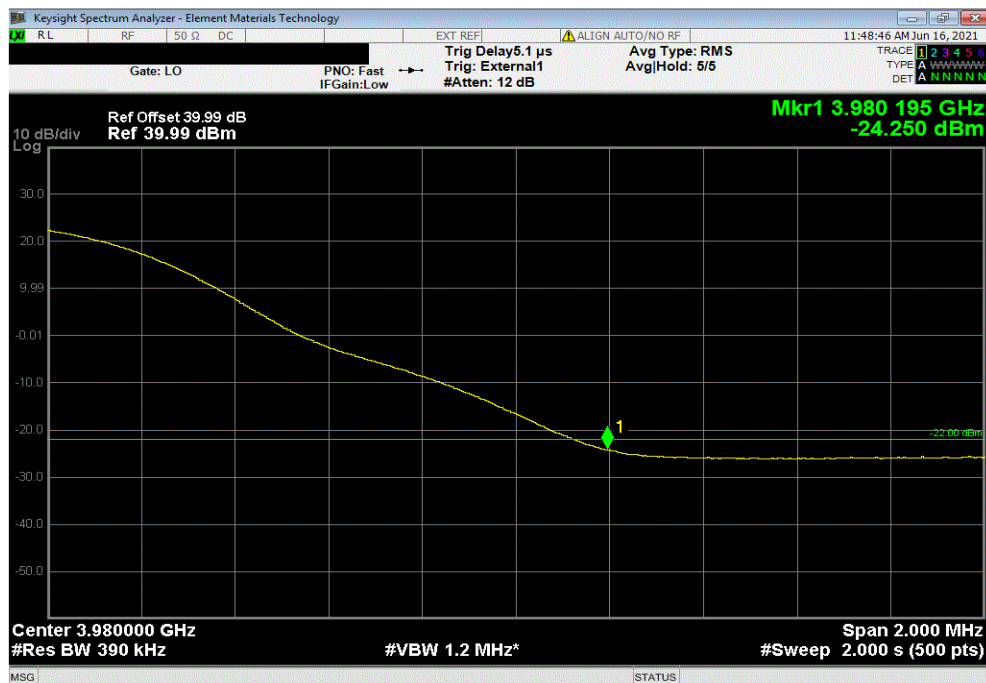


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 64-QAM Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-22.25	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 64-QAM Modulation, High Ch. 3960 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-24.25	-22	Pass

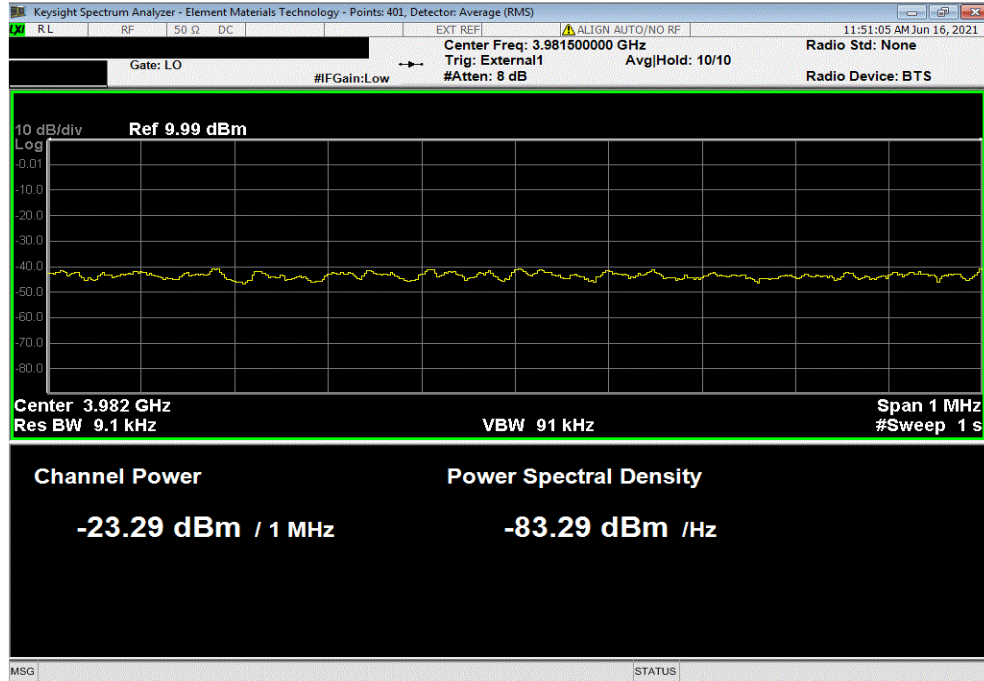


BAND EDGE COMPLIANCE

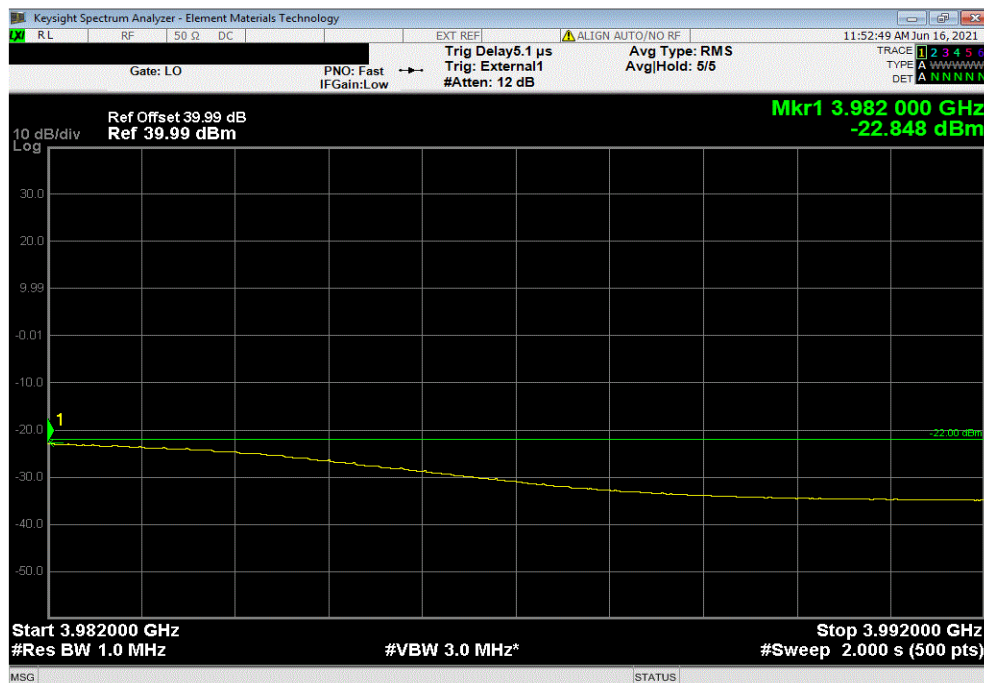


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 64-QAM Modulation, High Ch. 3960 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			2	-23.29	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 64-QAM Modulation, High Ch. 3960 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-22.85	-22	Pass



BAND EDGE COMPLIANCE

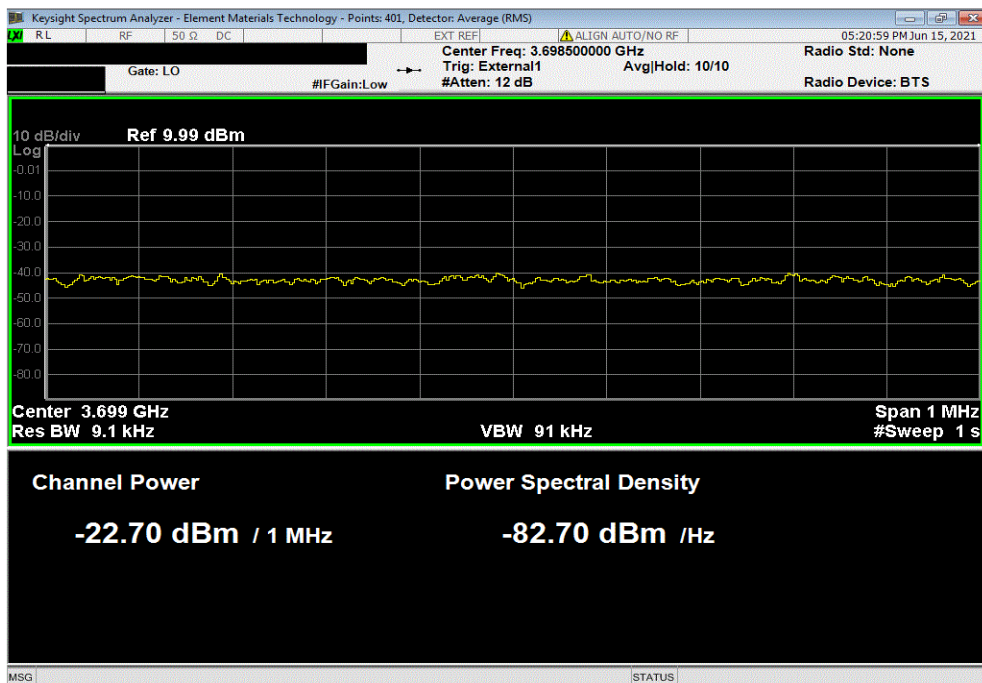


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 256-QAM Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-23.68	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 256-QAM Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-22.70	-22	Pass

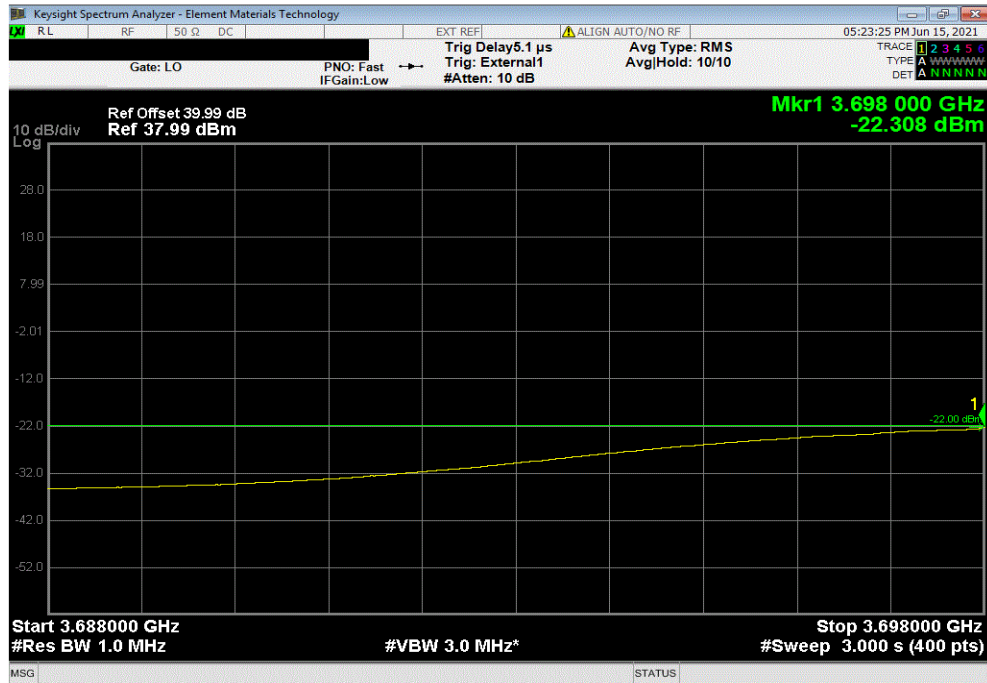


BAND EDGE COMPLIANCE

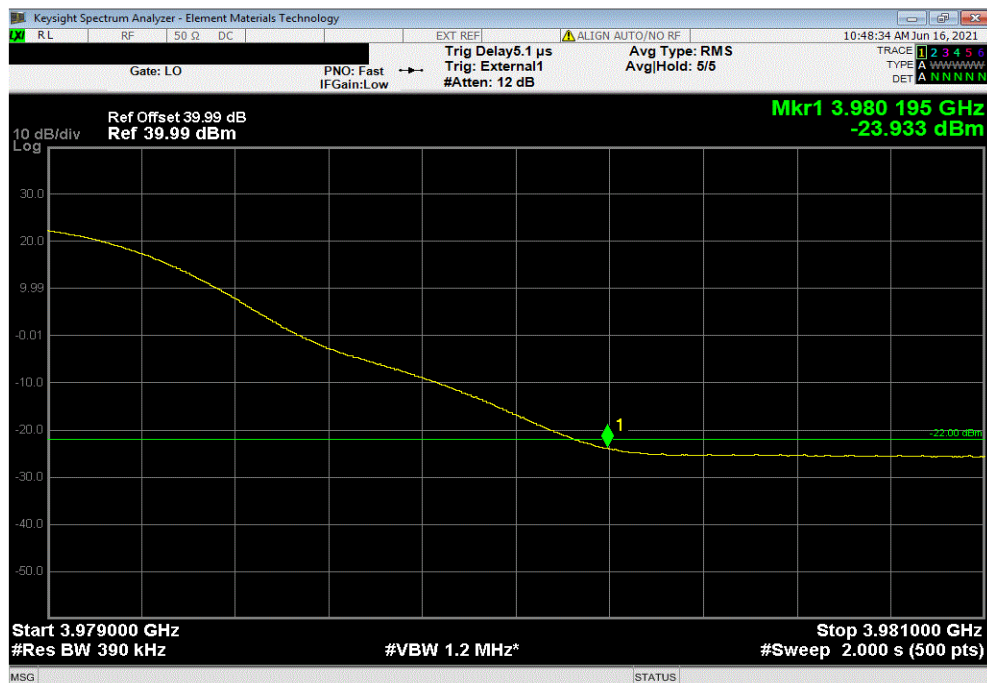


TbTtx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 256-QAM Modulation, Low Ch. 3720 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-22.31	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 256-QAM Modulation, High Ch. 3960 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-23.93	-22	Pass

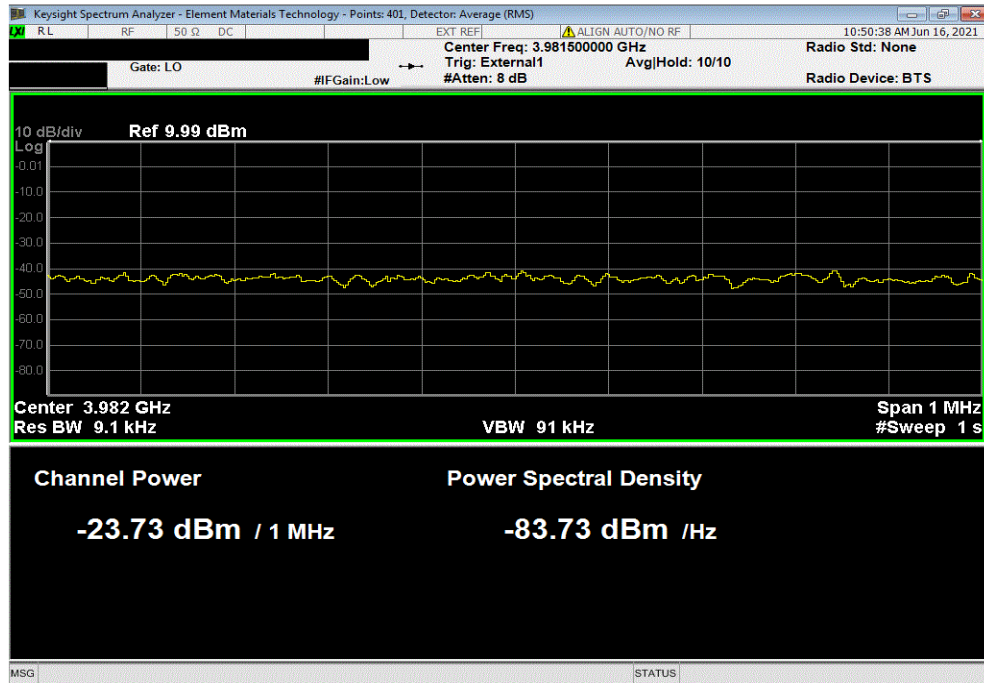


BAND EDGE COMPLIANCE

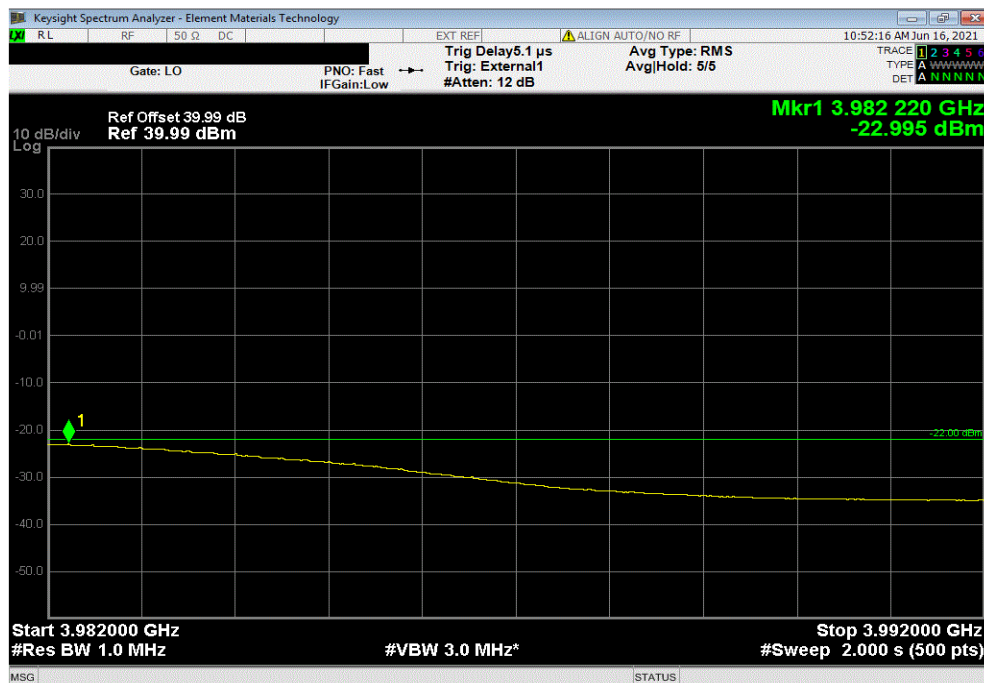


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 256-QAM Modulation, High Ch. 3960 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
2		-23.73		-22	Pass	



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 40 MHz BW, 256-QAM Modulation, High Ch. 3960 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
3		-23.00		-22	Pass	

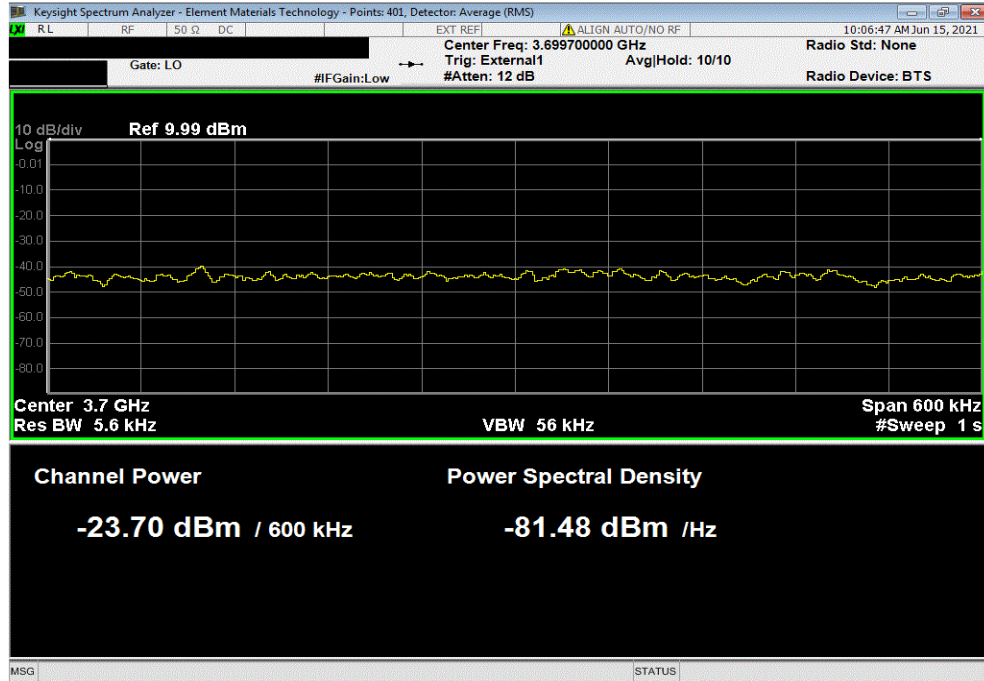


BAND EDGE COMPLIANCE

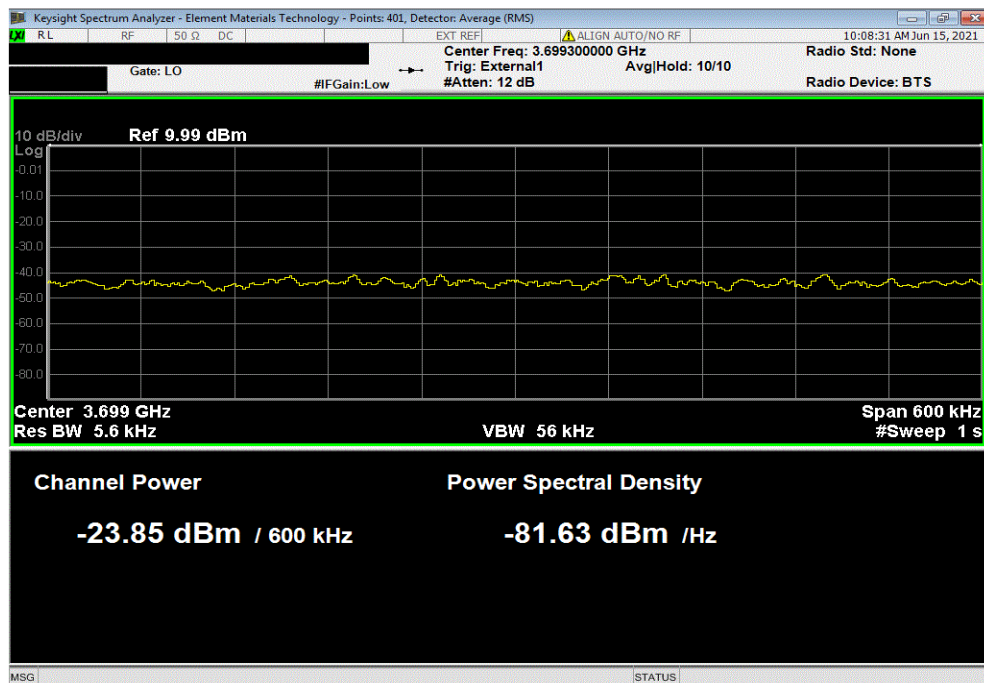


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, QPSK Modulation, Low Ch. 3730.02 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
	1			-23.70	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, QPSK Modulation, Low Ch. 3730.02 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
	2			-23.85	-22	Pass

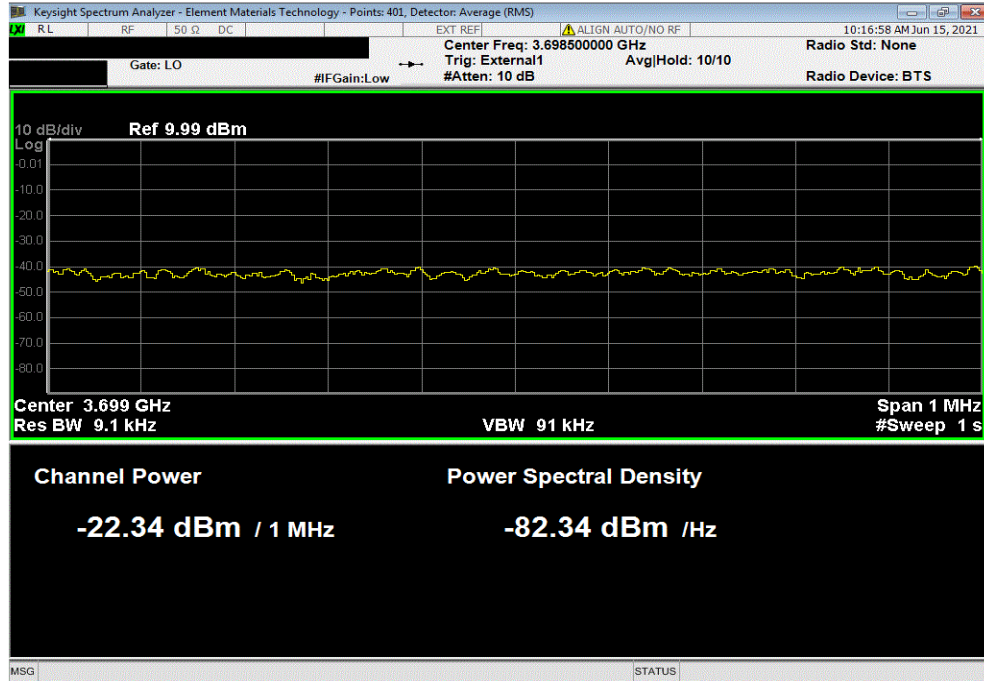


BAND EDGE COMPLIANCE

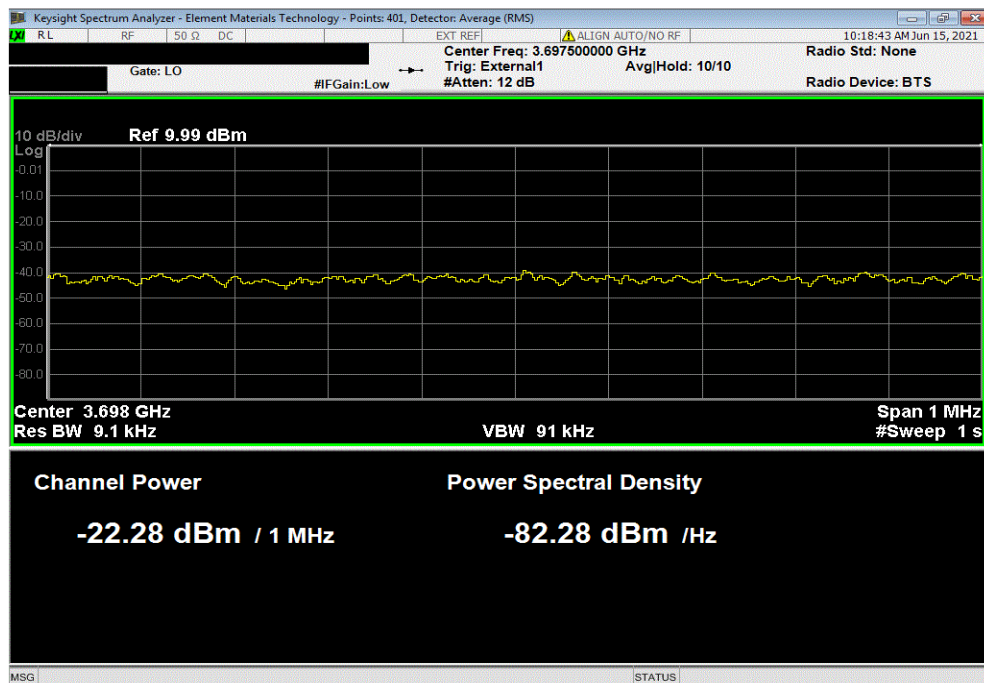


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, QPSK Modulation, Low Ch. 3730.02 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
3			-22.34		-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, QPSK Modulation, Low Ch. 3730.02 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
4			-22.28		-22	Pass

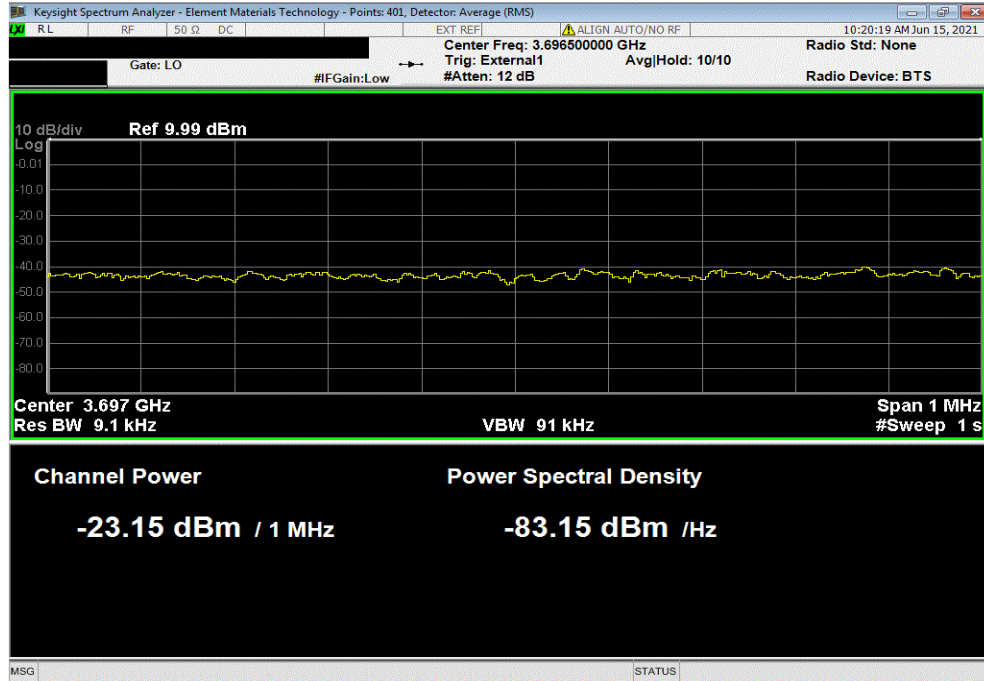


BAND EDGE COMPLIANCE

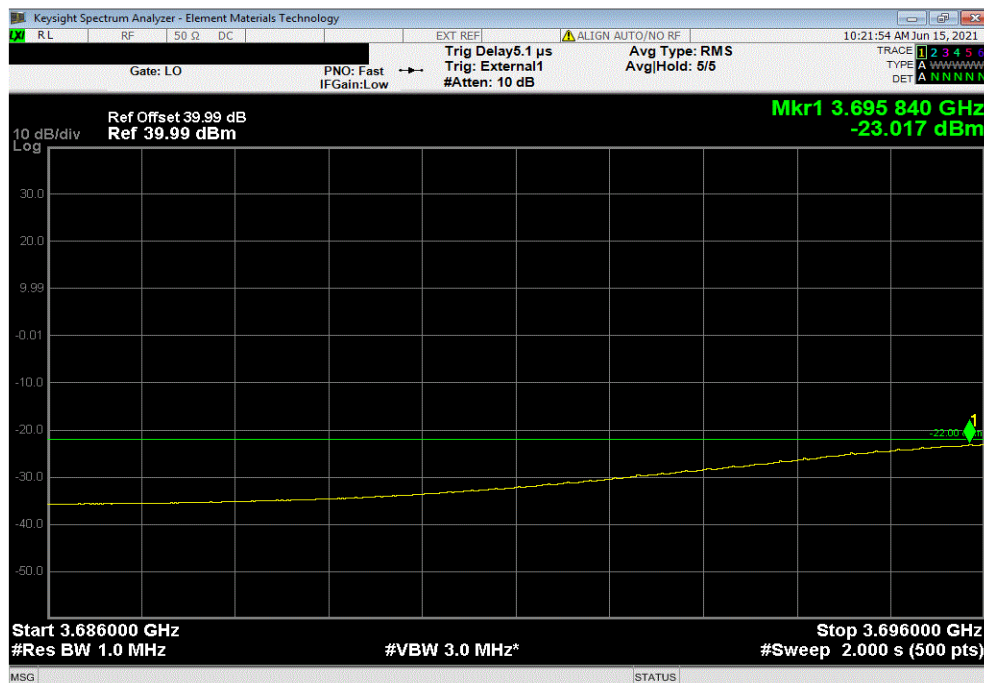


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, QPSK Modulation, Low Ch. 3730.02 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
5			-23.15		-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, QPSK Modulation, Low Ch. 3730.02 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
6			-23.02		-22	Pass

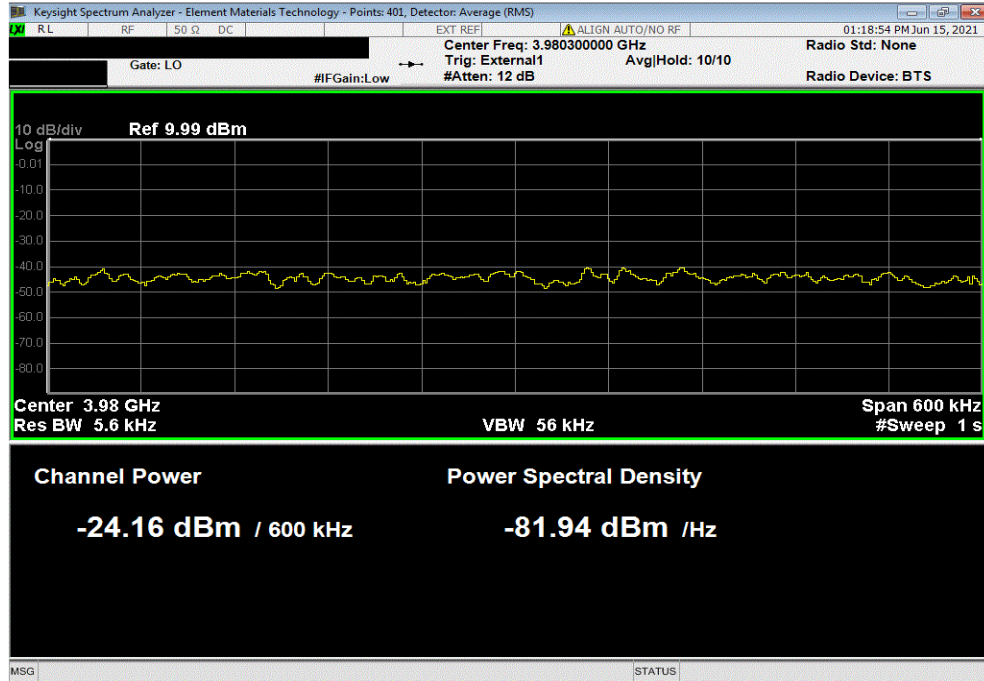


BAND EDGE COMPLIANCE

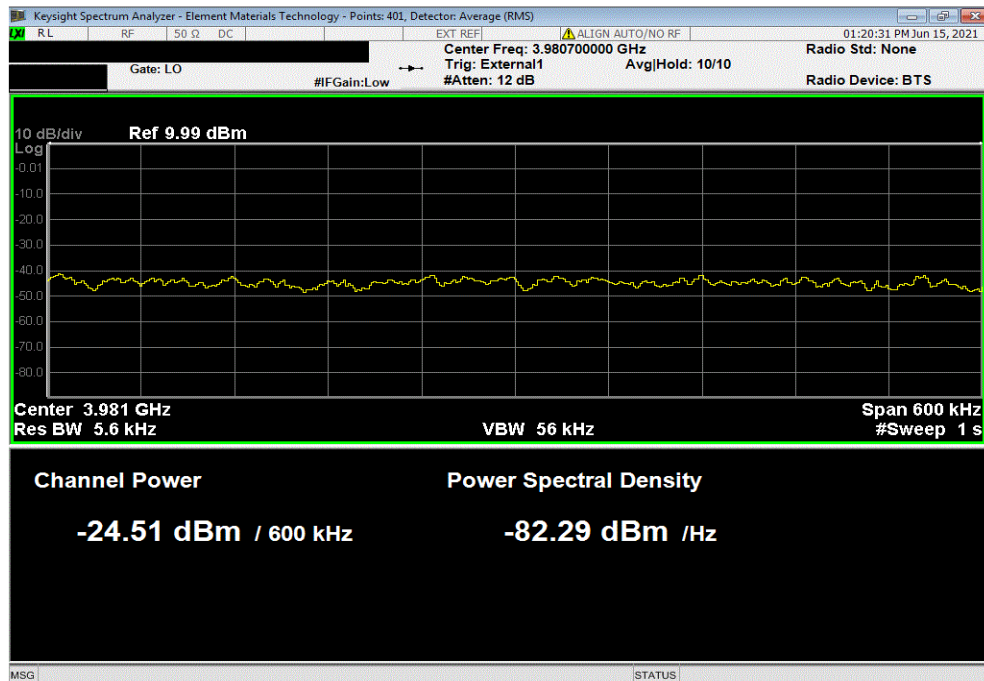


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, QPSK Modulation, High Ch. 3949.98 MHz						
Frequency						
Range				Value (dBm)	Limit (dBm)	Result
1				-24.16	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, QPSK Modulation, High Ch. 3949.98 MHz						
Frequency						
Range				Value (dBm)	Limit (dBm)	Result
2				-24.51	-22	Pass

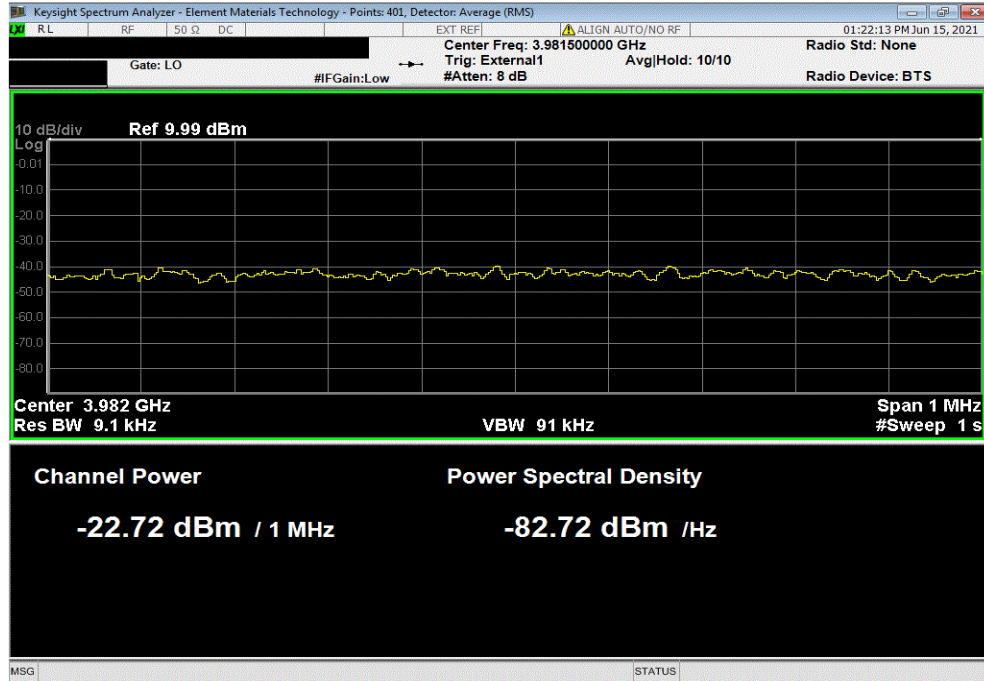


BAND EDGE COMPLIANCE

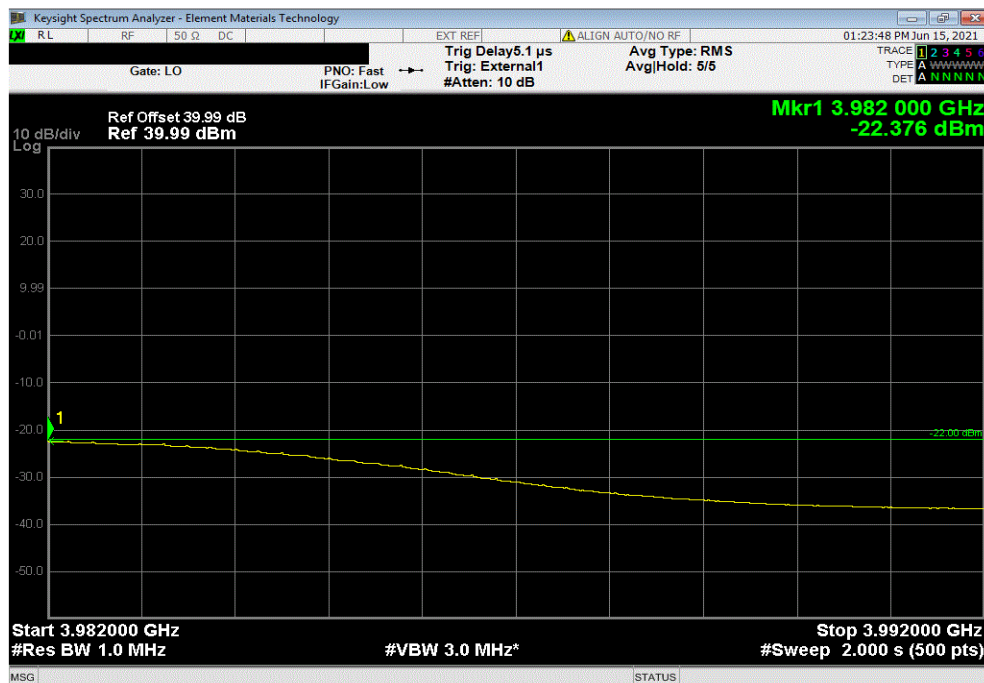


TbTtX 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, QPSK Modulation, High Ch. 3949.98 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
3			-22.72		-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, QPSK Modulation, High Ch. 3949.98 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
4			-22.38		-22	Pass

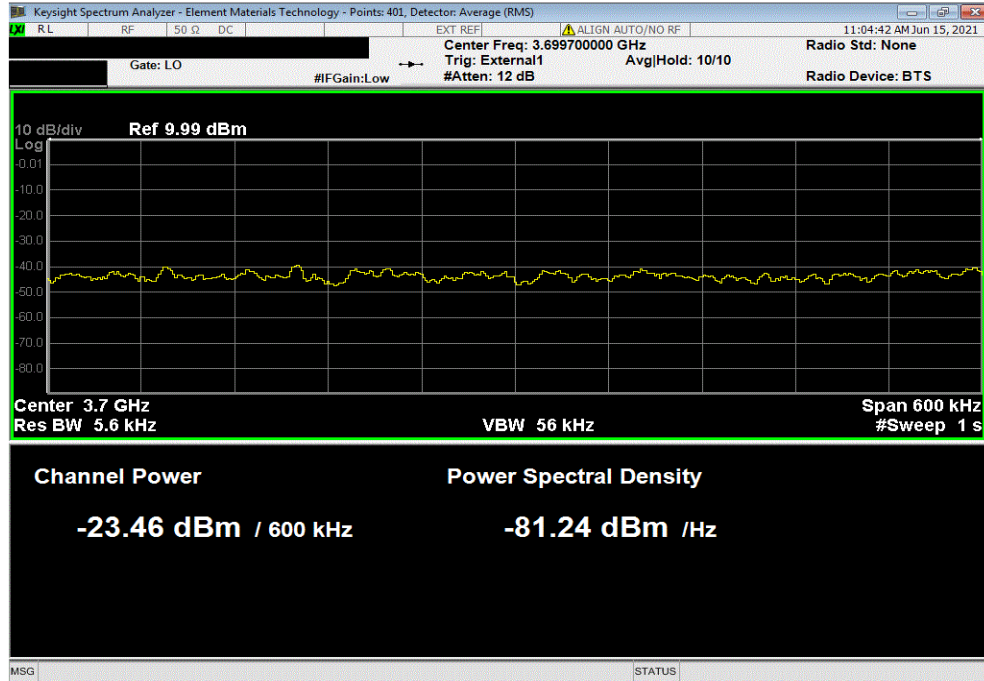


BAND EDGE COMPLIANCE

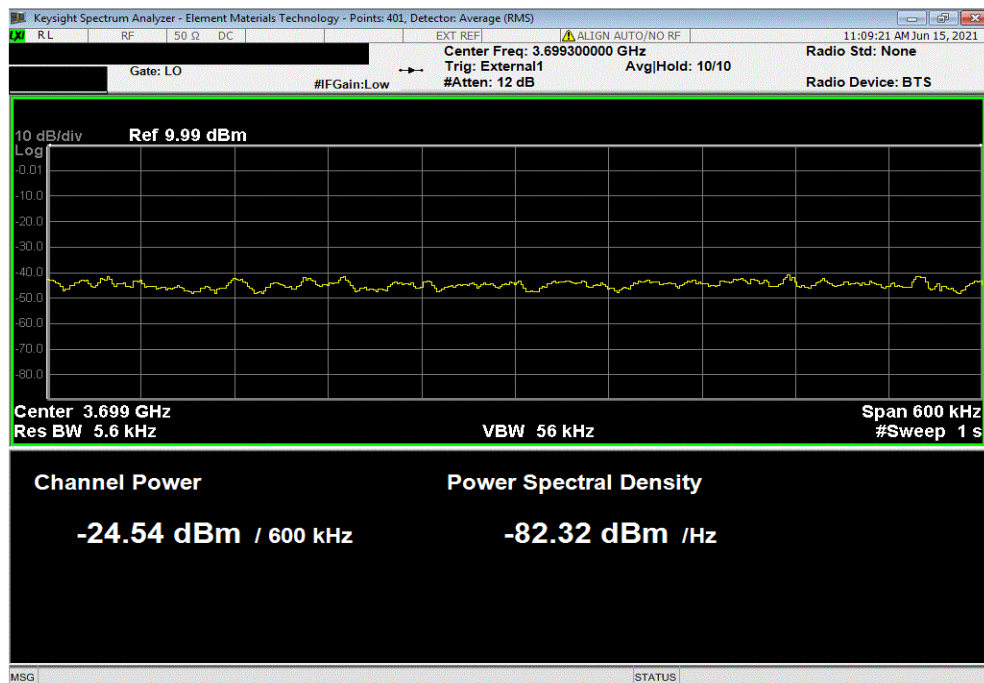


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 16-QAM Modulation, Low Ch. 3730.02 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-23.46	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 16-QAM Modulation, Low Ch. 3730.02 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-24.54	-22	Pass

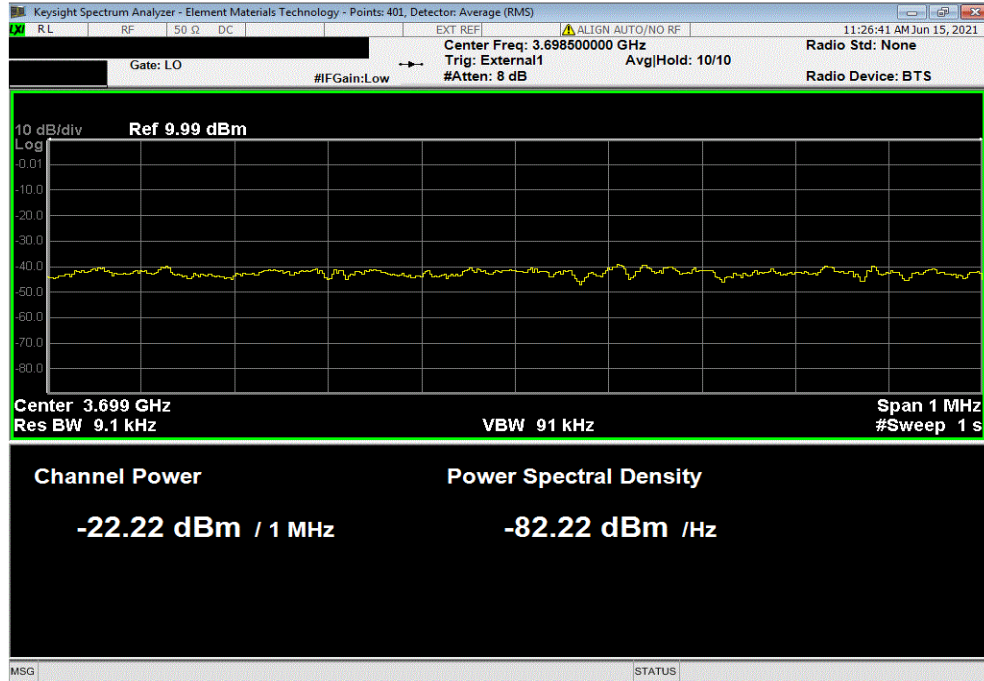


BAND EDGE COMPLIANCE

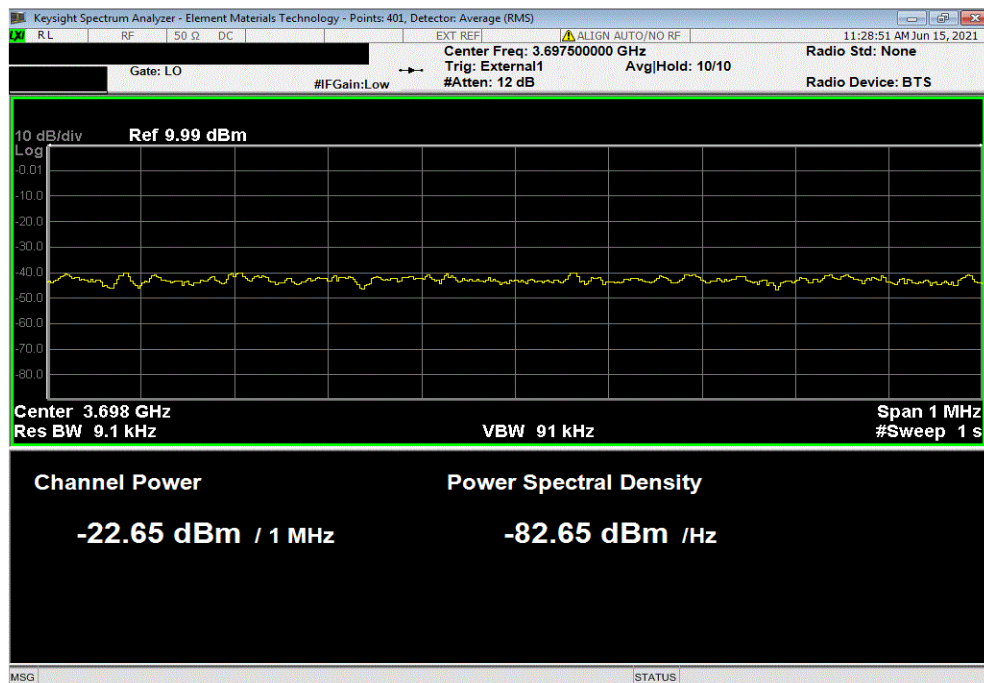


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 16-QAM Modulation, Low Ch. 3730.02 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-22.22	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 16-QAM Modulation, Low Ch. 3730.02 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			4	-22.65	-22	Pass

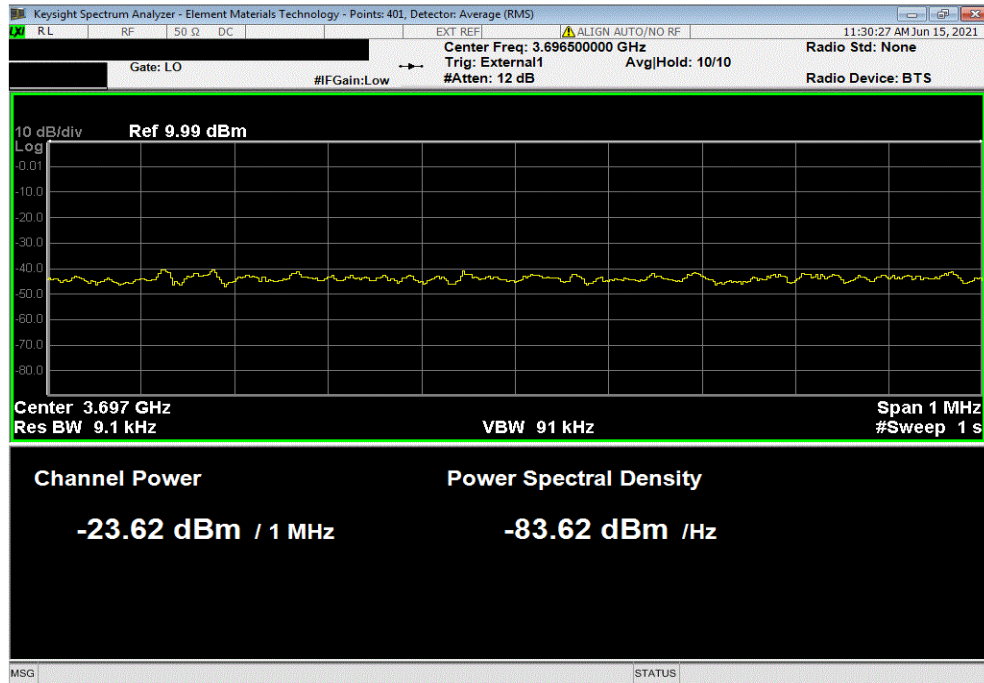


BAND EDGE COMPLIANCE

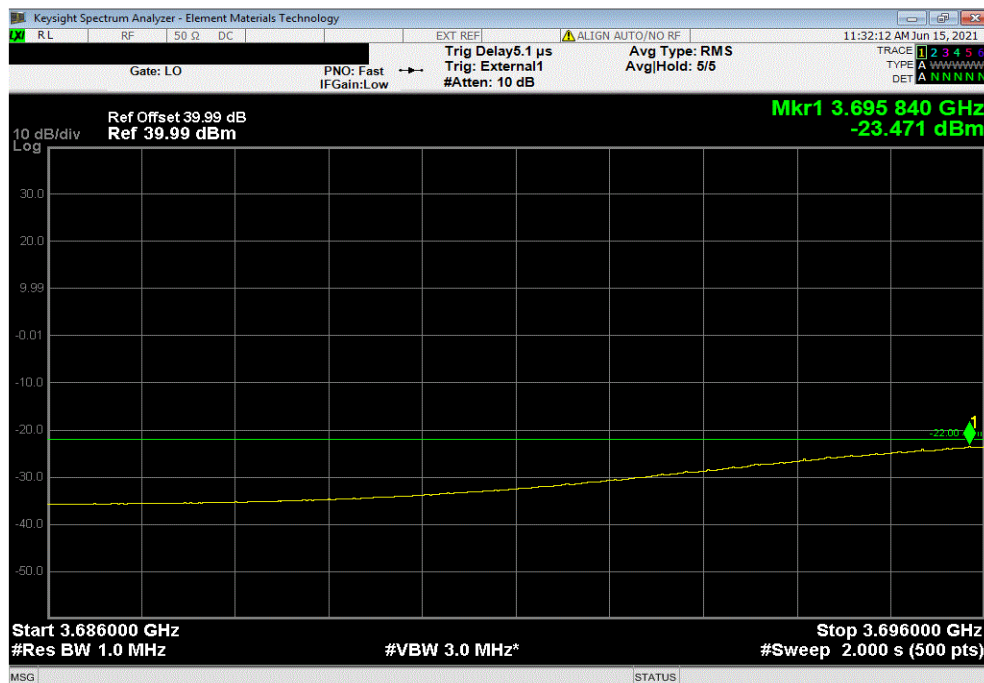


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 16-QAM Modulation, Low Ch. 3730.02 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
	5		-23.62		-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 16-QAM Modulation, Low Ch. 3730.02 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
	6		-23.47		-22	Pass

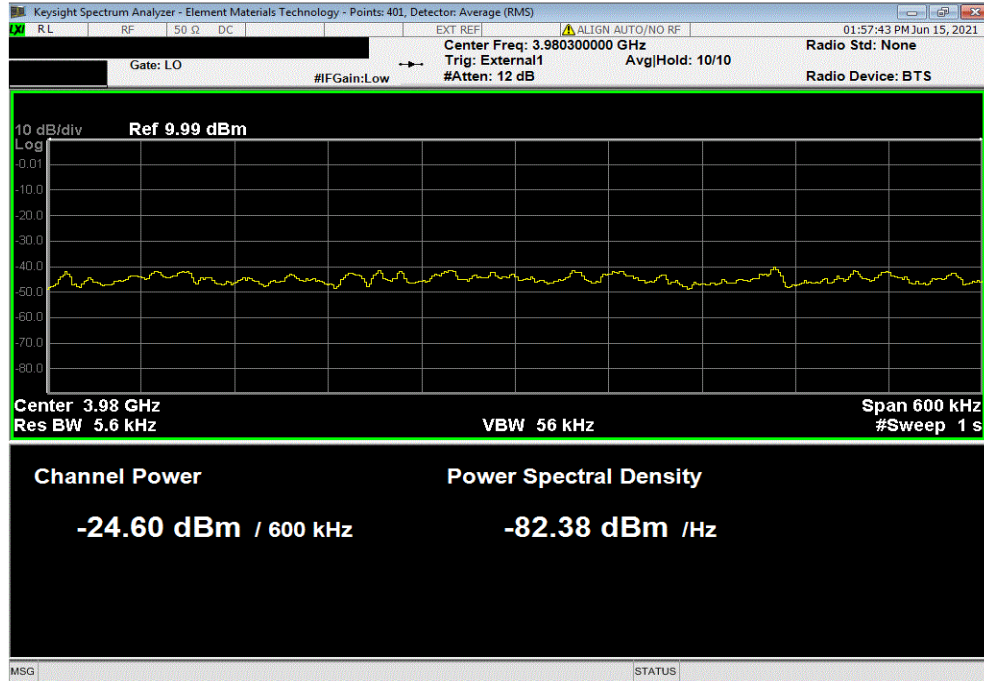


BAND EDGE COMPLIANCE

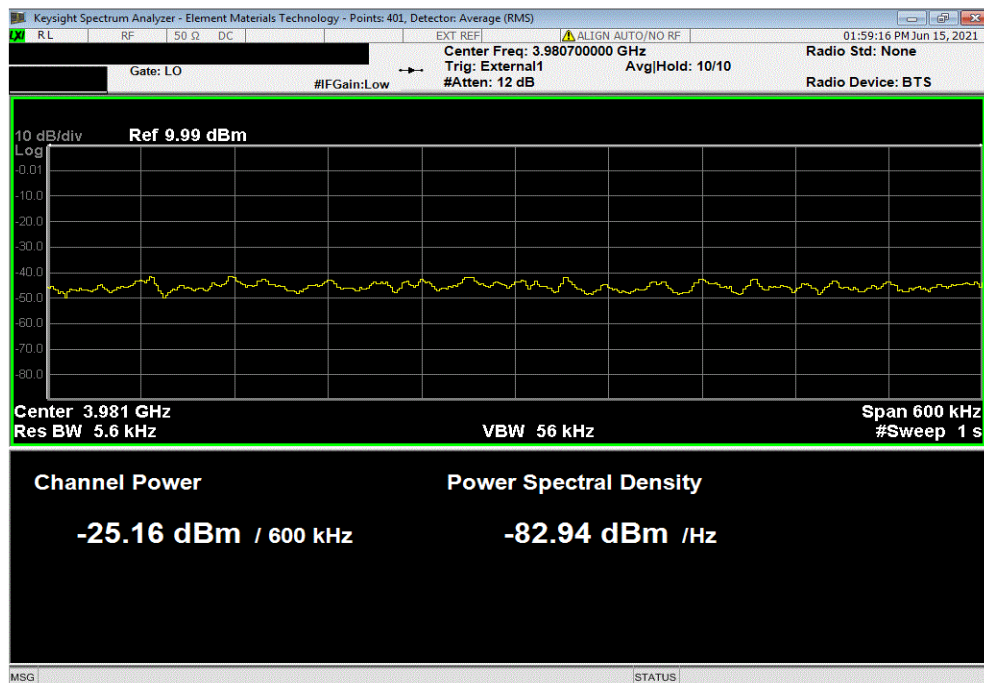


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 16-QAM Modulation, High Ch. 3949.98 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-24.60	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 16-QAM Modulation, High Ch. 3949.98 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-25.16	-22	Pass

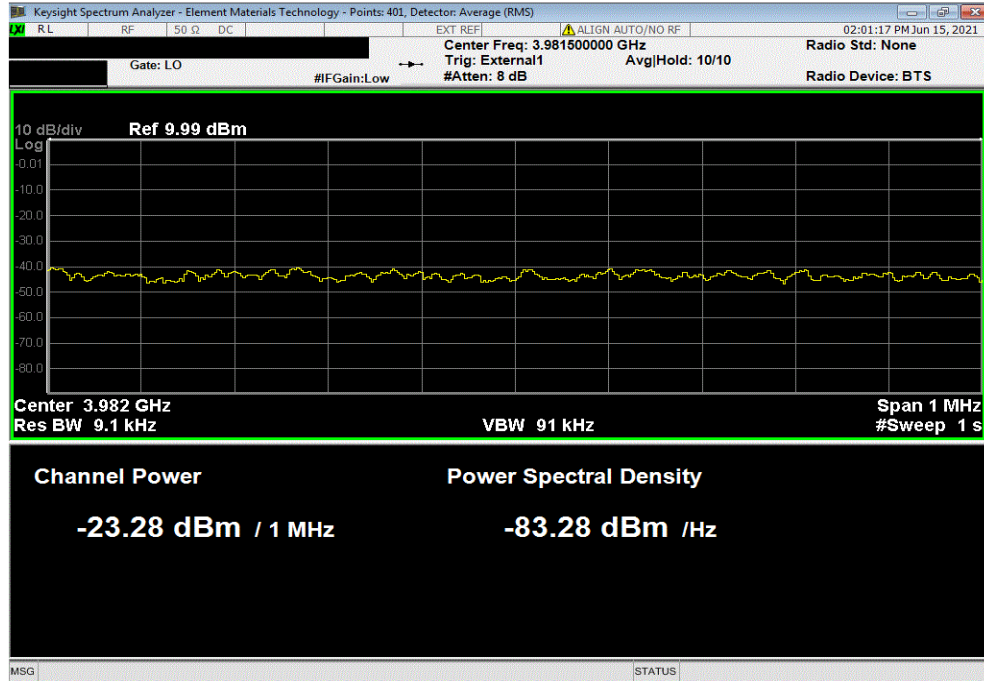


BAND EDGE COMPLIANCE

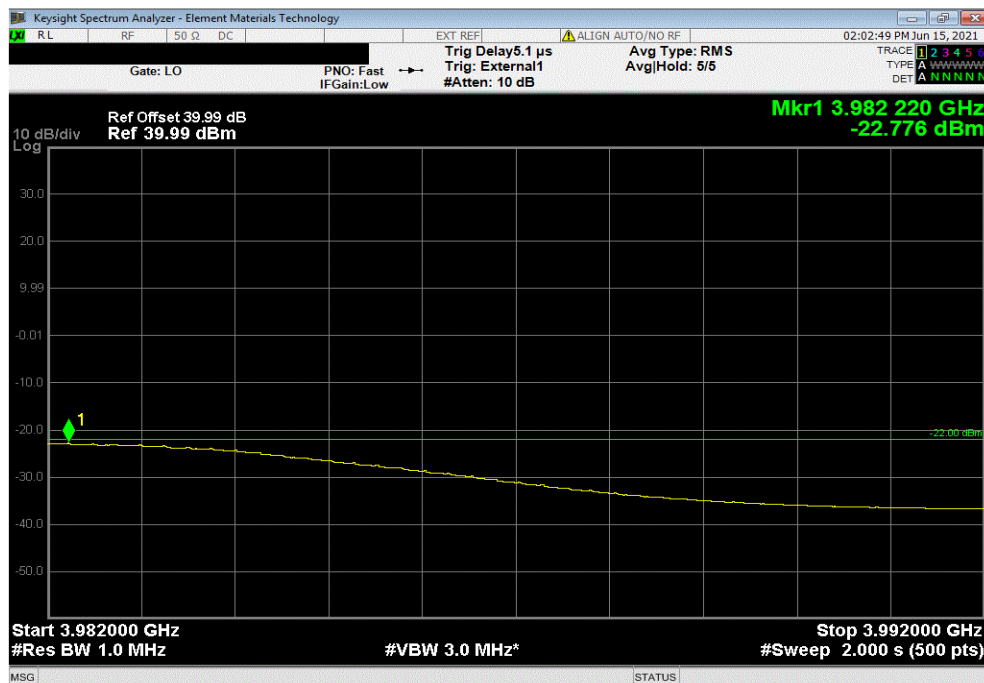


TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 16-QAM Modulation, High Ch. 3949.98 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
3			-23.28		-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 16-QAM Modulation, High Ch. 3949.98 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
4			-22.78		-22	Pass

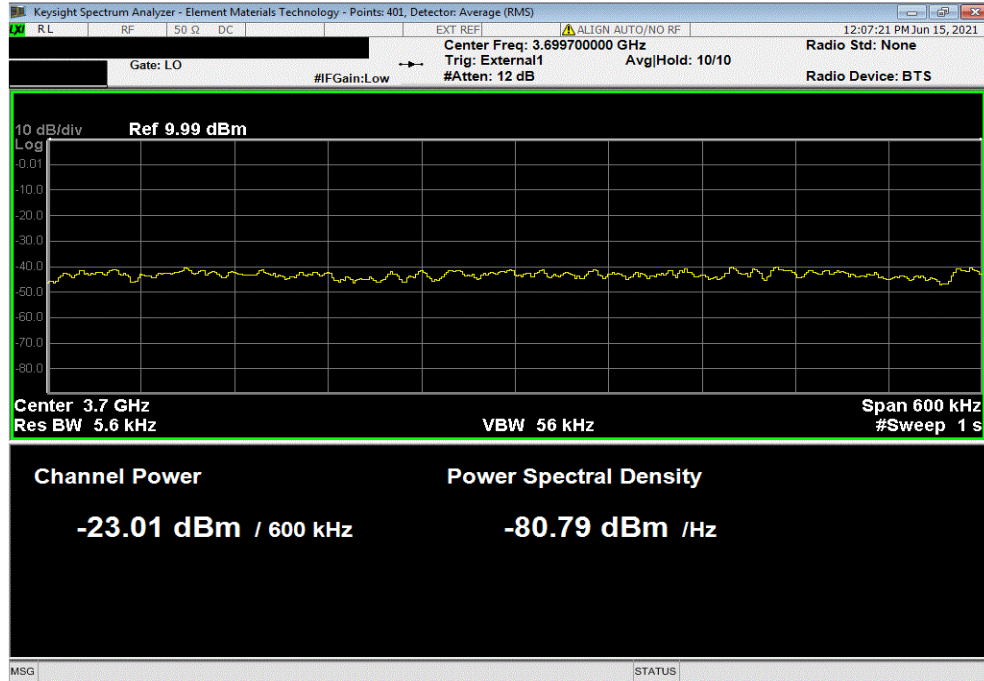


BAND EDGE COMPLIANCE



TbTx 2021.03.19.1 XMt 2020.12.30.0

Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 64-QAM Modulation, Low Ch. 3730.02 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-23.01	-22	Pass



Band n77, 3700 MHz - 3980 MHz, 5G NR, Port 8, 60 MHz BW, 64-QAM Modulation, Low Ch. 3730.02 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-24.11	-22	Pass

