

BAND EDGE COMPLIANCE



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	Keysight	N9010A	AFN	2021-01-06	2022-01-06
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 $[-10 \cdot \log(4)]$ dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911.

Per FCC 24.238(a) and RSS-133 section 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 -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) and RSS-133 section 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 occupied 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 occupied 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 (FXFC) as the original certification test. The FXFC 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 3 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: FXFC (FCC/ISED C2PC)		Work Order: NOKI0029			
Serial Number: 1M152245671		Date: 27-Apr-21			
Customer: Nokia Solutions and Networks		Temperature: 23.6 °C			
Attendees: David Le, John Rattanavong		Humidity: 47.6% RH			
Project: None		Barometric Pres.: 1014 mbar			
Tested by: Brandon Hobbs		Job Site: TX05			
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 n2 carriers are enabled at maximum power (80 watts/carrier). The measurement marker was offset by RBW/2 from the band edge frequency as allowed by ANSI C63.26 clause 5.7.2g for some test cases.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	2	Signature 			
		Frequency Range	Max Value (dBm)	Limit < (dBm)	Result
Band n2, 1930 MHz - 1990 MHz, 5G NR					
Port 3					
5 MHz Bandwidth					
QPSK Modulation					
Low Channel, 1932.5 MHz		1	-22.1	-19	Pass
Low Channel, 1932.5 MHz		2	-22.0	-19	Pass
Low Channel, 1932.5 MHz		3	-20.3	-19	Pass
High Channel, 1987.5 MHz		1	-22.2	-19	Pass
High Channel, 1987.5 MHz		2	-22.8	-19	Pass
High Channel, 1987.5 MHz		3	-23.4	-19	Pass
16-QAM Modulation					
Low Channel, 1932.5 MHz		1	-24.7	-19	Pass
Low Channel, 1932.5 MHz		2	-21.1	-19	Pass
Low Channel, 1932.5 MHz		3	-22.1	-19	Pass
High Channel, 1987.5 MHz		1	-24.1	-19	Pass
High Channel, 1987.5 MHz		2	-22.9	-19	Pass
High Channel, 1987.5 MHz		3	-23.3	-19	Pass
64-QAM Modulation					
Low Channel, 1932.5 MHz		1	-24.2	-19	Pass
Low Channel, 1932.5 MHz		2	-21.7	-19	Pass
Low Channel, 1932.5 MHz		3	-20.3	-19	Pass
High Channel, 1987.5 MHz		1	-21.6	-19	Pass
High Channel, 1987.5 MHz		2	-23.1	-19	Pass
High Channel, 1987.5 MHz		3	-23.6	-19	Pass
256-QAM Modulation					
Low Channel, 1932.5 MHz		1	-23.3	-19	Pass
Low Channel, 1932.5 MHz		2	-21.2	-19	Pass
Low Channel, 1932.5 MHz		3	-20.4	-19	Pass
High Channel, 1987.5 MHz		1	-22.6	-19	Pass
High Channel, 1987.5 MHz		2	-22.3	-19	Pass
High Channel, 1987.5 MHz		3	-22.8	-19	Pass
10 MHz Bandwidth					
QPSK Modulation					
Low Channel, 1935 MHz		1	-27.4	-19	Pass
Low Channel, 1935 MHz		2	-21.6	-19	Pass
Low Channel, 1935 MHz		3	-21.1	-19	Pass
High Channel, 1985 MHz		1	-26.0	-19	Pass
High Channel, 1985 MHz		2	-22.7	-19	Pass
High Channel, 1985 MHz		3	-23.2	-19	Pass
16-QAM Modulation					
Low Channel, 1935 MHz		1	-27.4	-19	Pass
Low Channel, 1935 MHz		2	-21.5	-19	Pass
Low Channel, 1935 MHz		3	-20.9	-19	Pass
High Channel, 1985 MHz		1	-27.9	-19	Pass
High Channel, 1985 MHz		2	-23.4	-19	Pass
High Channel, 1985 MHz		3	-24.1	-19	Pass
64-QAM Modulation					
Low Channel, 1935 MHz		1	-26.5	-19	Pass
Low Channel, 1935 MHz		2	-21.6	-19	Pass
Low Channel, 1935 MHz		3	-20.6	-19	Pass
High Channel, 1985 MHz		1	-26.6	-19	Pass
High Channel, 1985 MHz		2	-22.6	-19	Pass
High Channel, 1985 MHz		3	-23.1	-19	Pass
256-QAM Modulation					
Low Channel, 1935 MHz		1	-27.1	-19	Pass
Low Channel, 1935 MHz		2	-21.3	-19	Pass
Low Channel, 1935 MHz		3	-20.7	-19	Pass
High Channel, 1985 MHz		1	-27.2	-19	Pass
High Channel, 1985 MHz		2	-22.6	-19	Pass
High Channel, 1985 MHz		3	-23.4	-19	Pass
15 MHz Bandwidth					
QPSK Modulation					
Low Channel, 1937.5 MHz		1	-26.1	-19	Pass
Low Channel, 1937.5 MHz		2	-22.9	-19	Pass
Low Channel, 1937.5 MHz		3	-22.1	-19	Pass
High Channel, 1982.5 MHz		1	-27.0	-19	Pass
High Channel, 1982.5 MHz		2	-24.3	-19	Pass
High Channel, 1982.5 MHz		3	-24.8	-19	Pass
16-QAM Modulation					
Low Channel, 1937.5 MHz		1	-26.3	-19	Pass
Low Channel, 1937.5 MHz		2	-22.9	-19	Pass
Low Channel, 1937.5 MHz		3	-22.1	-19	Pass
High Channel, 1982.5 MHz		1	-25.6	-19	Pass
High Channel, 1982.5 MHz		2	-24.2	-19	Pass
High Channel, 1982.5 MHz		3	-24.3	-19	Pass
64-QAM Modulation					
Low Channel, 1937.5 MHz		1	-26.6	-19	Pass
Low Channel, 1937.5 MHz		2	-22.7	-19	Pass

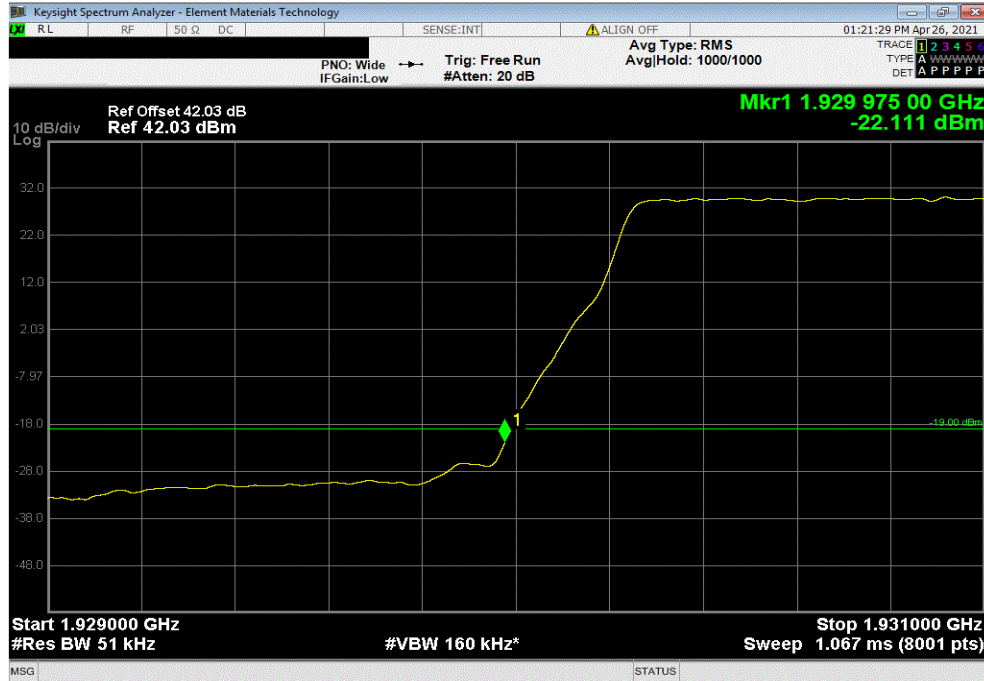
	Low Channel, 1937.5 MHz	3	-22.2	-19	Pass
	High Channel, 1982.5 MHz	1	-26.9	-19	Pass
	High Channel, 1982.5 MHz	2	-24.0	-19	Pass
	High Channel, 1982.5 MHz	3	-24.3	-19	Pass
256-QAM Modulation					
	Low Channel, 1937.5 MHz	1	-26.2	-19	Pass
	Low Channel, 1937.5 MHz	2	-22.5	-19	Pass
	Low Channel, 1937.5 MHz	3	-21.9	-19	Pass
	High Channel, 1982.5 MHz	1	-26.0	-19	Pass
	High Channel, 1982.5 MHz	2	-24.4	-19	Pass
	High Channel, 1982.5 MHz	3	-24.5	-19	Pass
20 MHz Bandwidth					
QPSK Modulation					
	Low Channel, 1940 MHz	1	-25.2	-19	Pass
	Low Channel, 1940 MHz	2	-23.5	-19	Pass
	Low Channel, 1940 MHz	3	-22.9	-19	Pass
	High Channel, 1980 MHz	1	-25.6	-19	Pass
	High Channel, 1980 MHz	2	-25.4	-19	Pass
	High Channel, 1980 MHz	3	-25.5	-19	Pass
16-QAM Modulation					
	Low Channel, 1940 MHz	1	-24.3	-19	Pass
	Low Channel, 1940 MHz	2	-23.3	-19	Pass
	Low Channel, 1940 MHz	3	-22.6	-19	Pass
	High Channel, 1980 MHz	1	-26.4	-19	Pass
	High Channel, 1980 MHz	2	-25.8	-19	Pass
	High Channel, 1980 MHz	3	-25.9	-19	Pass
64-QAM Modulation					
	Low Channel, 1940 MHz	1	-26.3	-19	Pass
	Low Channel, 1940 MHz	2	-23.5	-19	Pass
	Low Channel, 1940 MHz	3	-22.6	-19	Pass
	High Channel, 1980 MHz	1	-25.1	-19	Pass
	High Channel, 1980 MHz	2	-25.5	-19	Pass
	High Channel, 1980 MHz	3	-25.5	-19	Pass
256-QAM Modulation					
	Low Channel, 1940 MHz	1	-25.2	-19	Pass
	Low Channel, 1940 MHz	2	-23.5	-19	Pass
	Low Channel, 1940 MHz	3	-22.8	-19	Pass
	High Channel, 1980 MHz	1	-26.5	-19	Pass
	High Channel, 1980 MHz	2	-25.3	-19	Pass
	High Channel, 1980 MHz	3	-25.2	-19	Pass

BAND EDGE COMPLIANCE

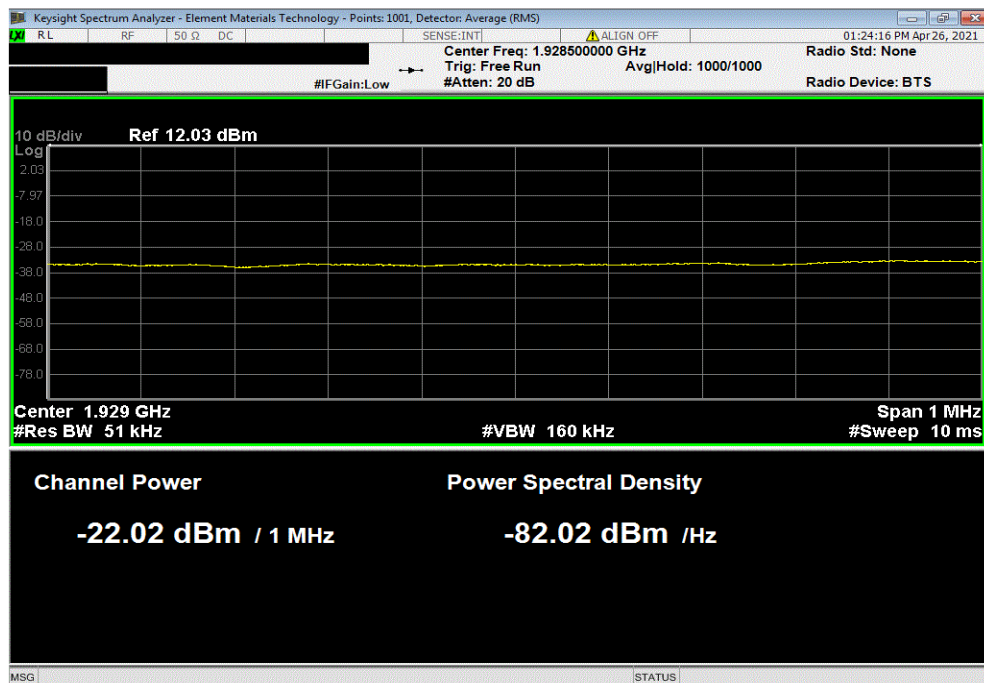


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.11	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.02	-19	Pass			

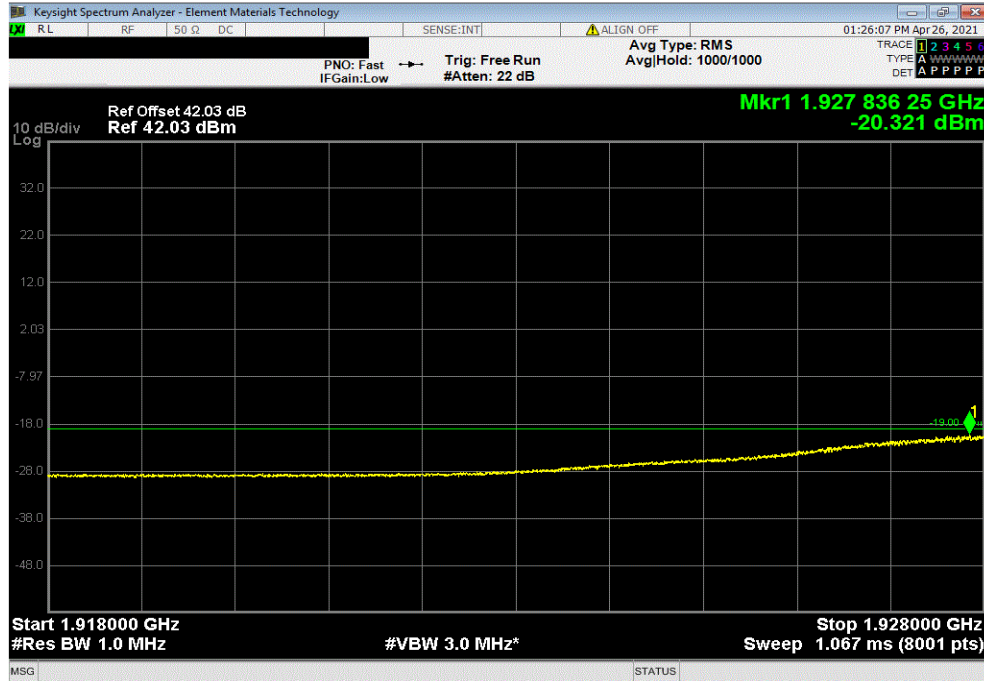


BAND EDGE COMPLIANCE

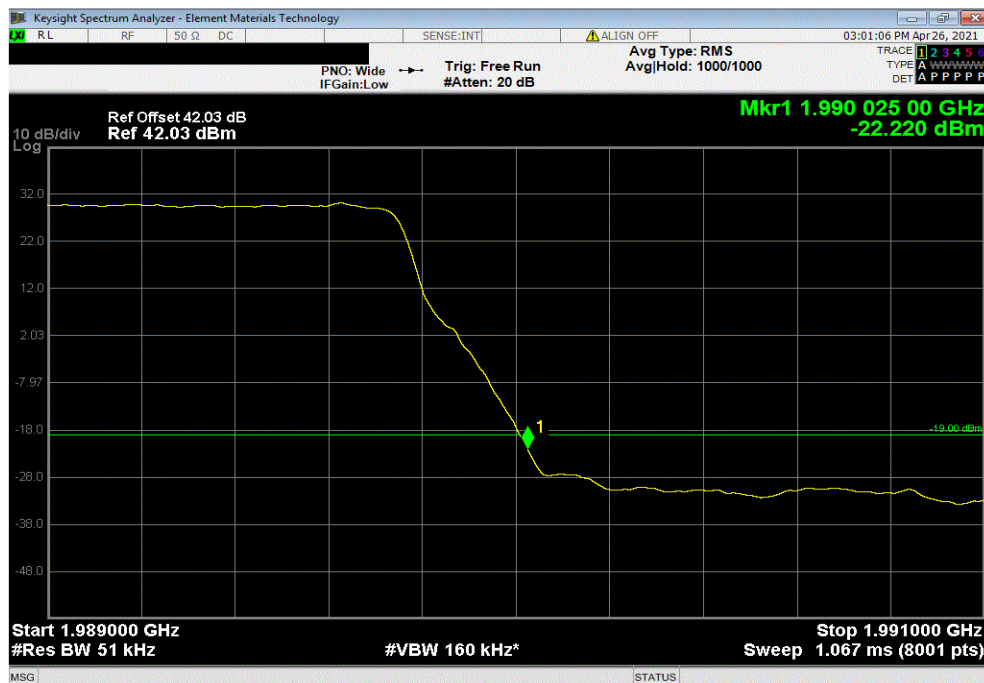


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, QPSK Modulation , Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-20.32	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, QPSK Modulation , High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.22	-19	Pass			

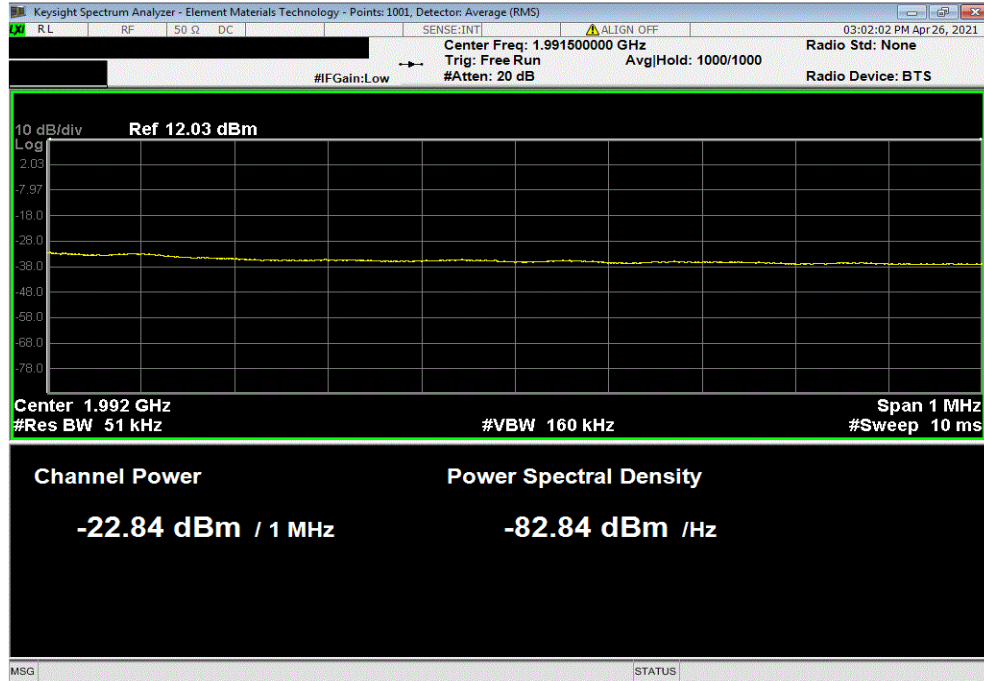


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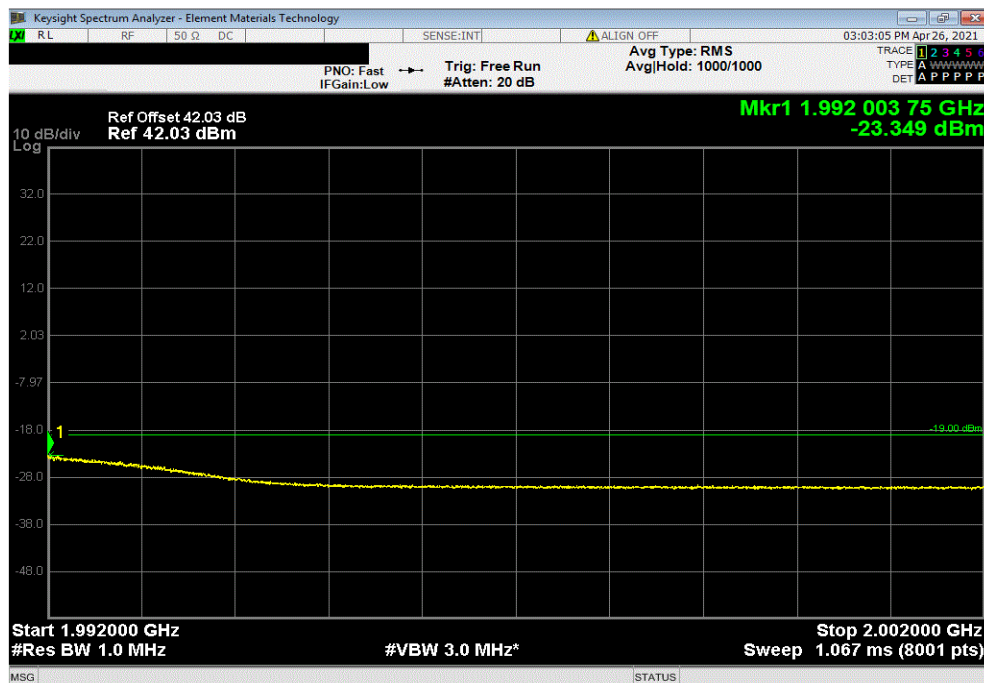


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, QPSK Modulation, High Channel, 1987.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
2		-22.84		-19	Pass	



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, QPSK Modulation, High Channel, 1987.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
3		-23.35		-19	Pass	

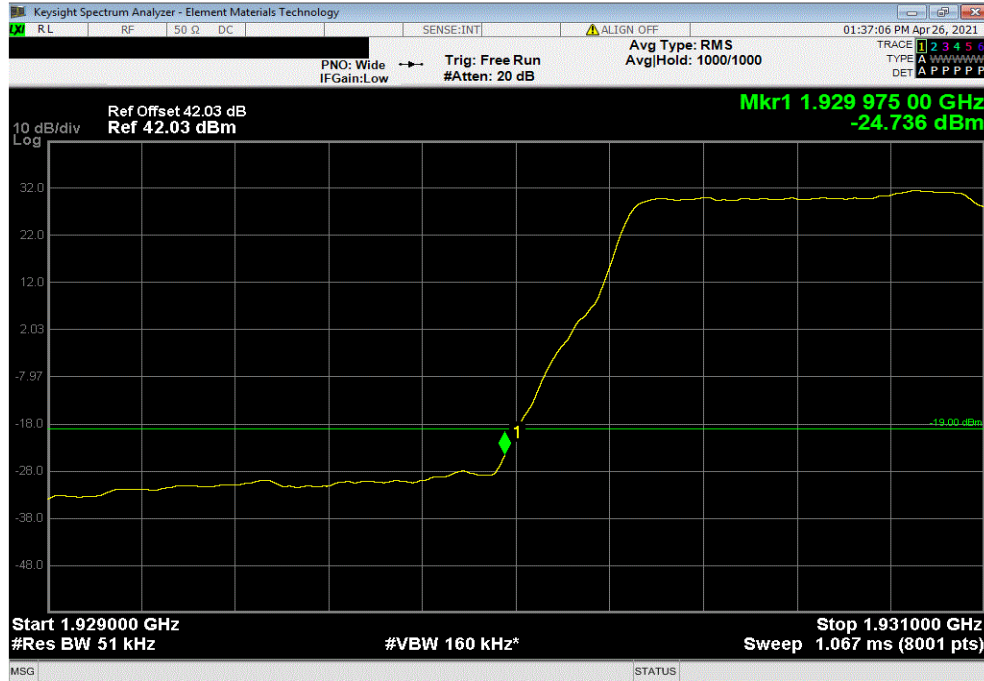


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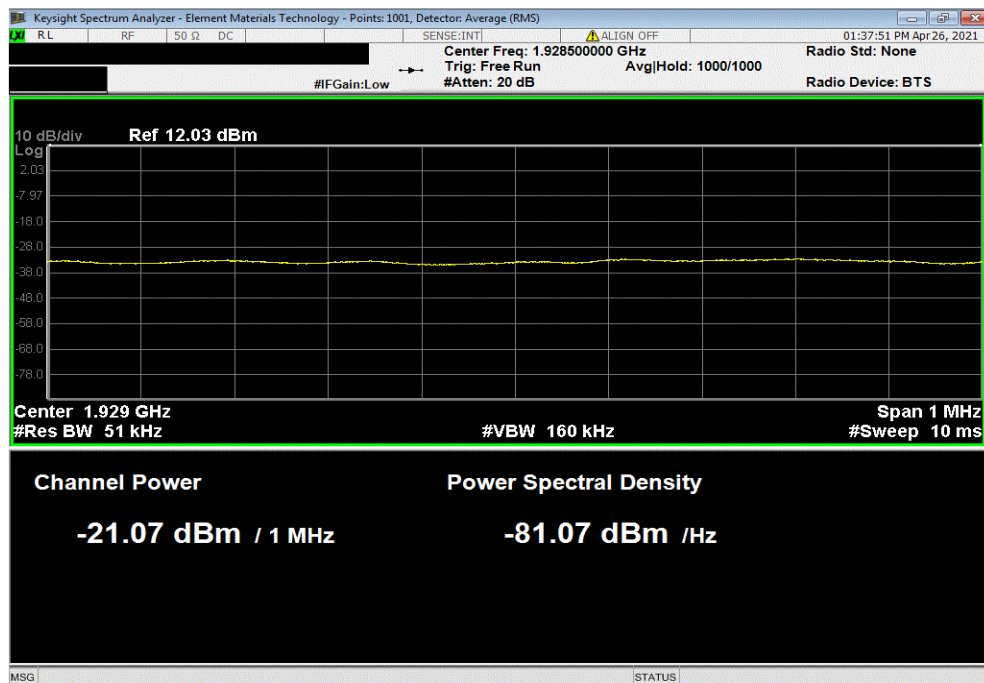


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.74	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-21.07	-19	Pass			

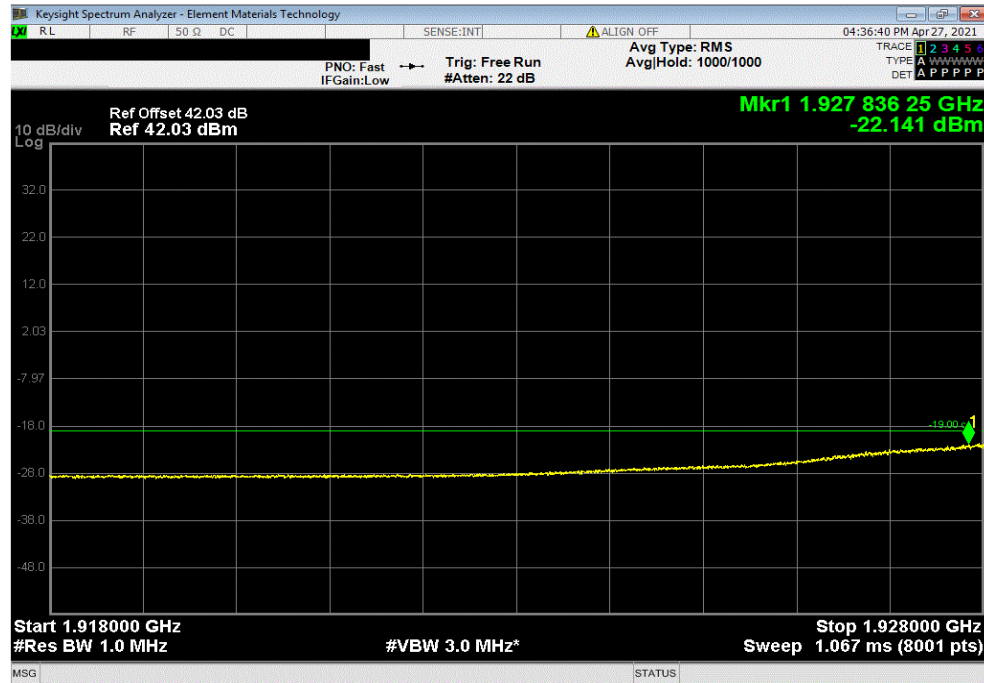


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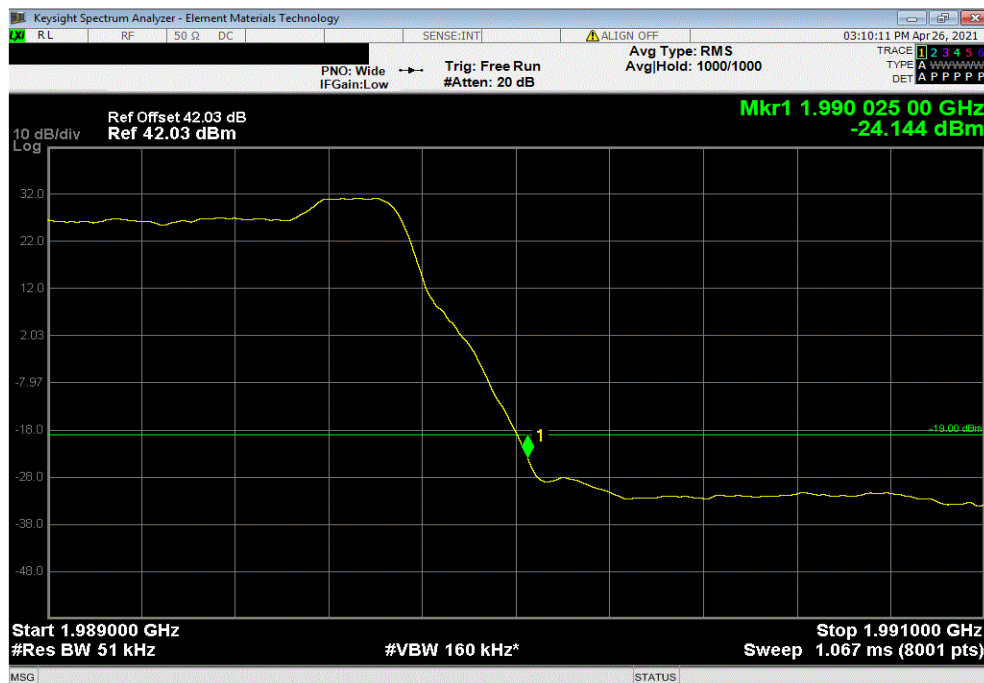


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.141	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.14	-19	Pass			

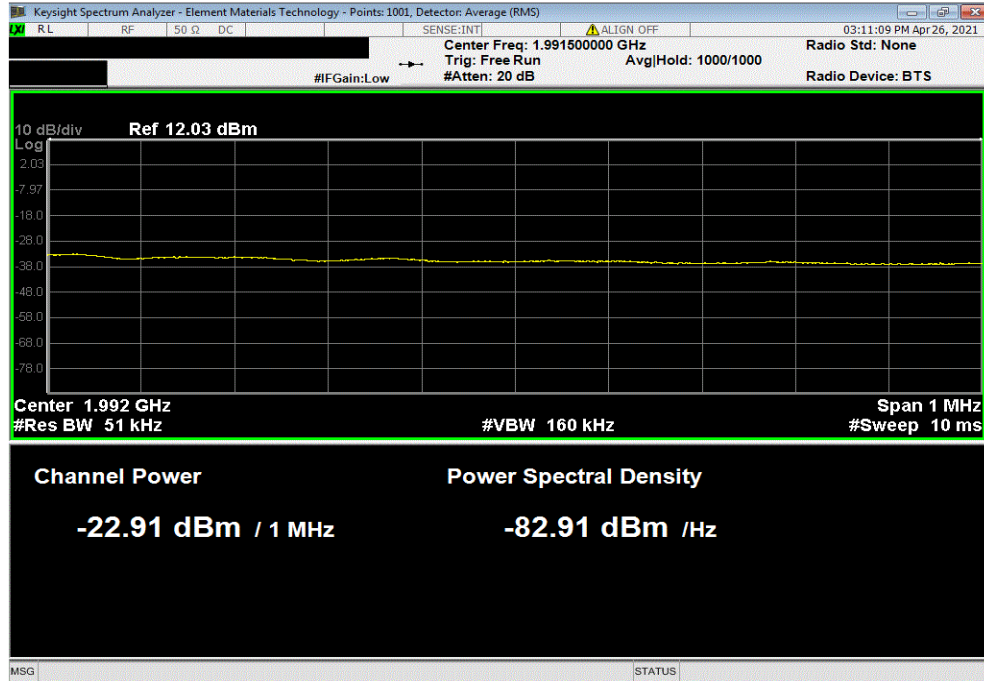


BAND EDGE COMPLIANCE

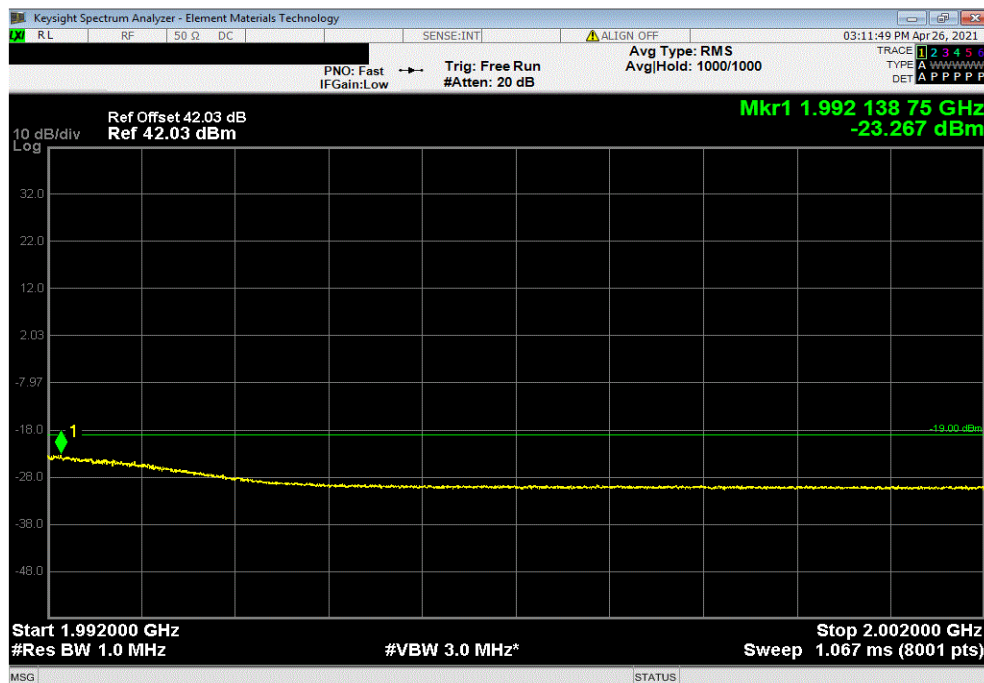


TbTx 2019.08.30.0 XbM 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.91	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.27	-19	Pass			

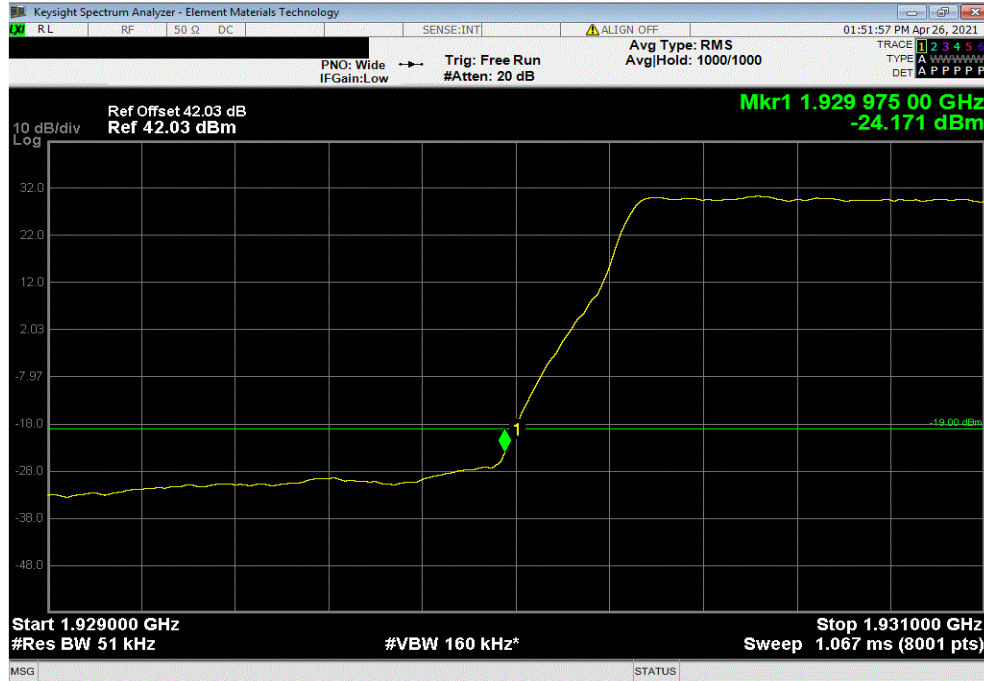


BAND EDGE COMPLIANCE

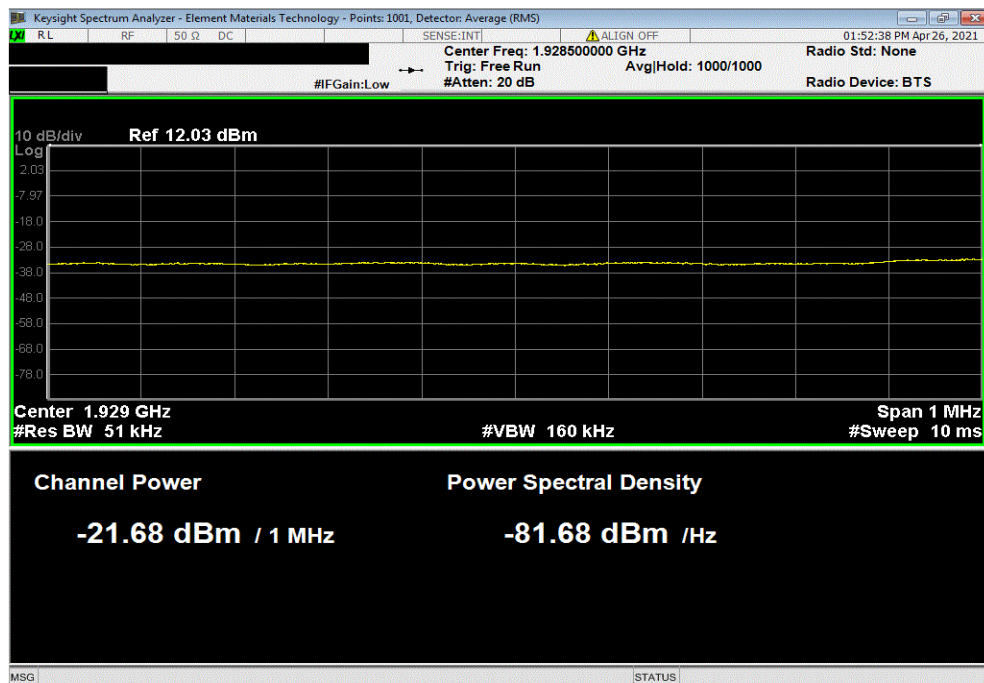


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-24.17		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
2		-21.68		-19		Pass

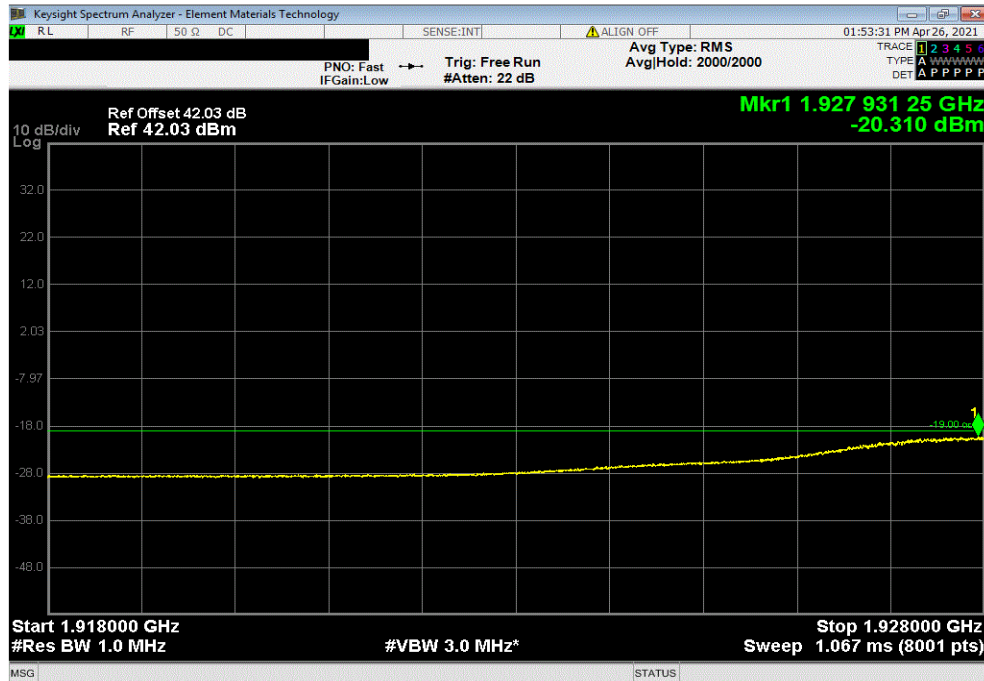


BAND EDGE COMPLIANCE

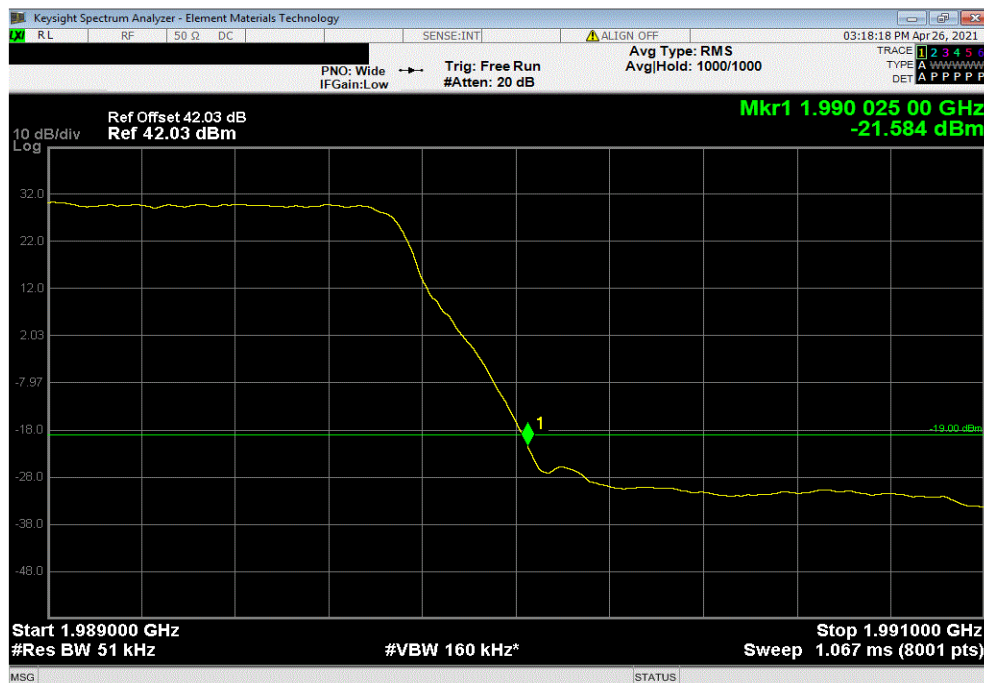


TbTtX 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-20.31	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-21.58	-19	Pass			

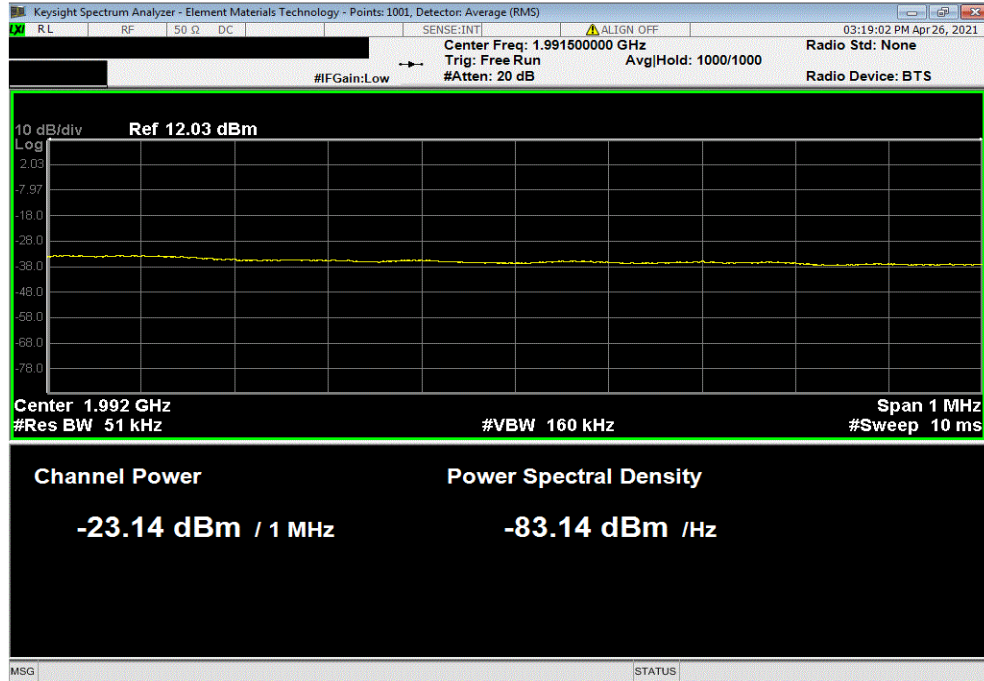


BAND EDGE COMPLIANCE

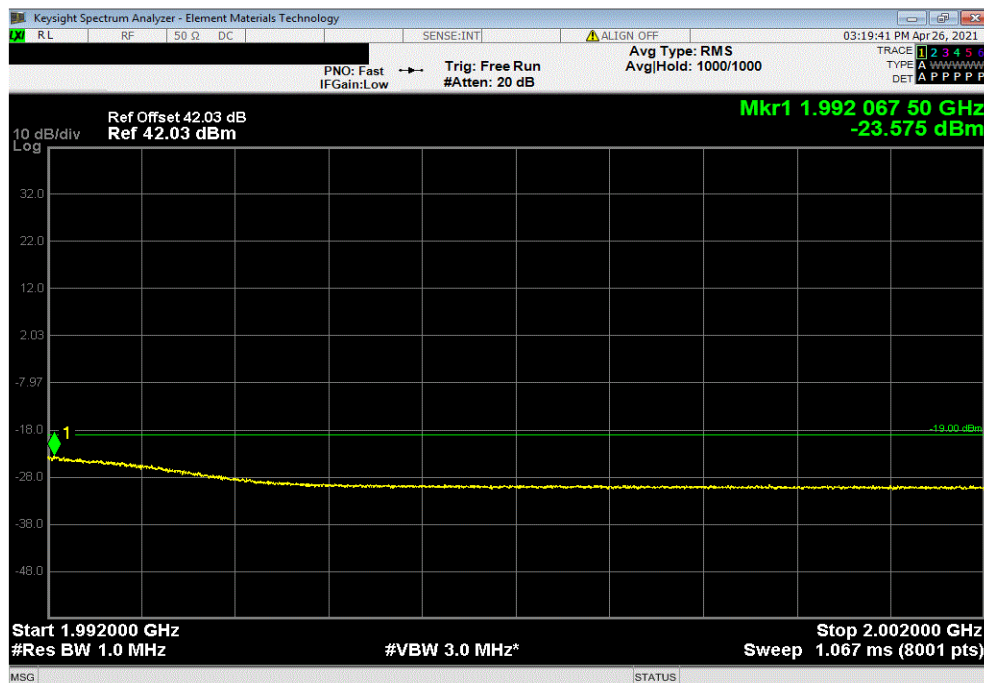


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.14	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.58	-19	Pass			

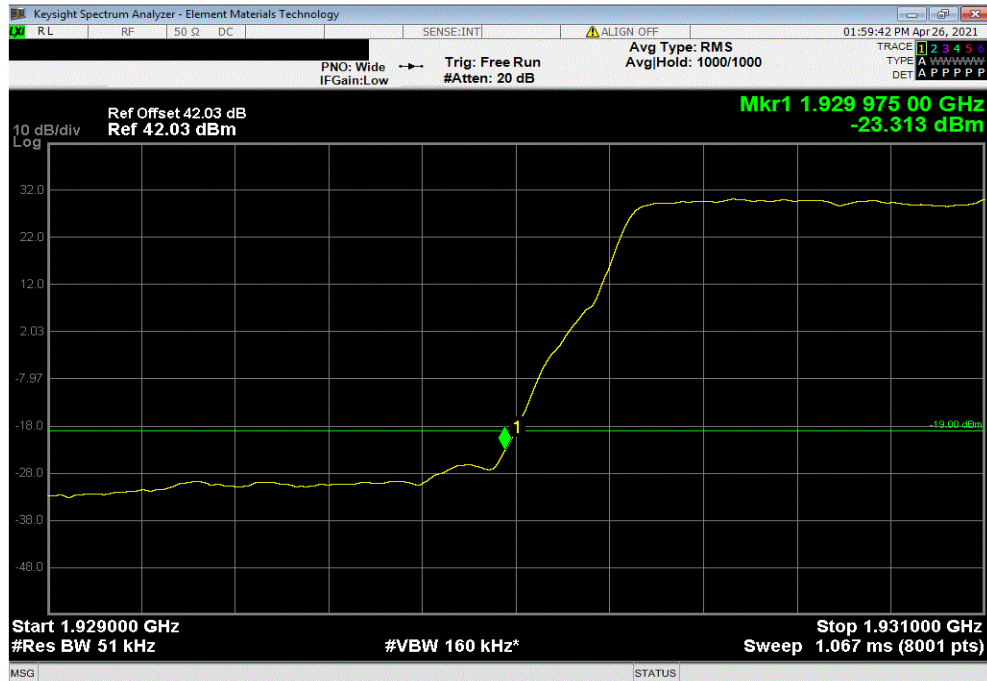


BAND EDGE COMPLIANCE

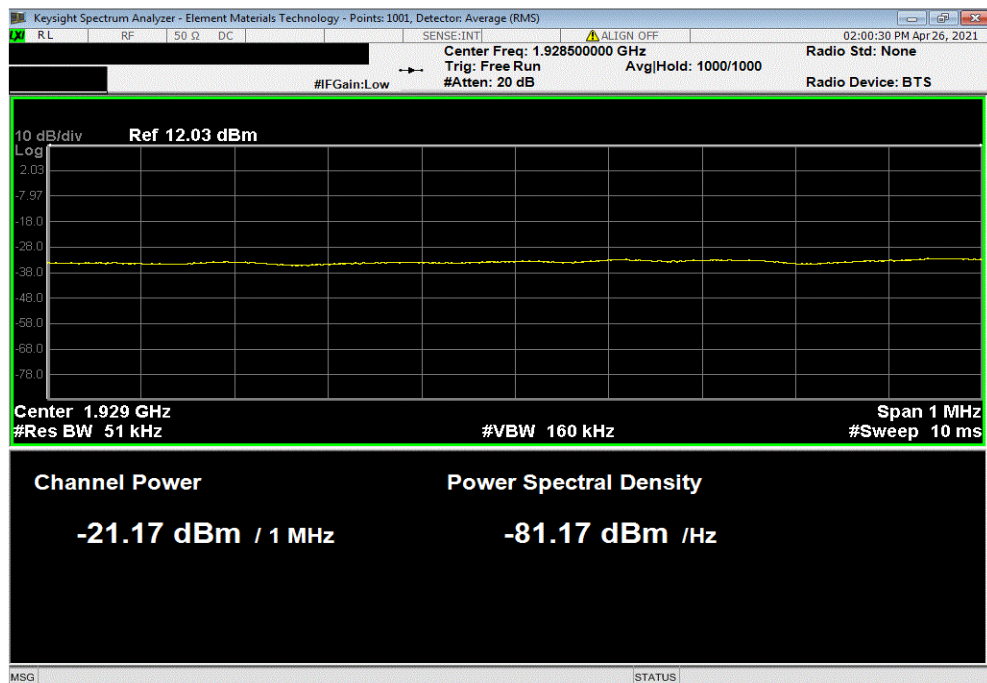


TbTx 2019.08.30.0 XMt 2020.12.30.0

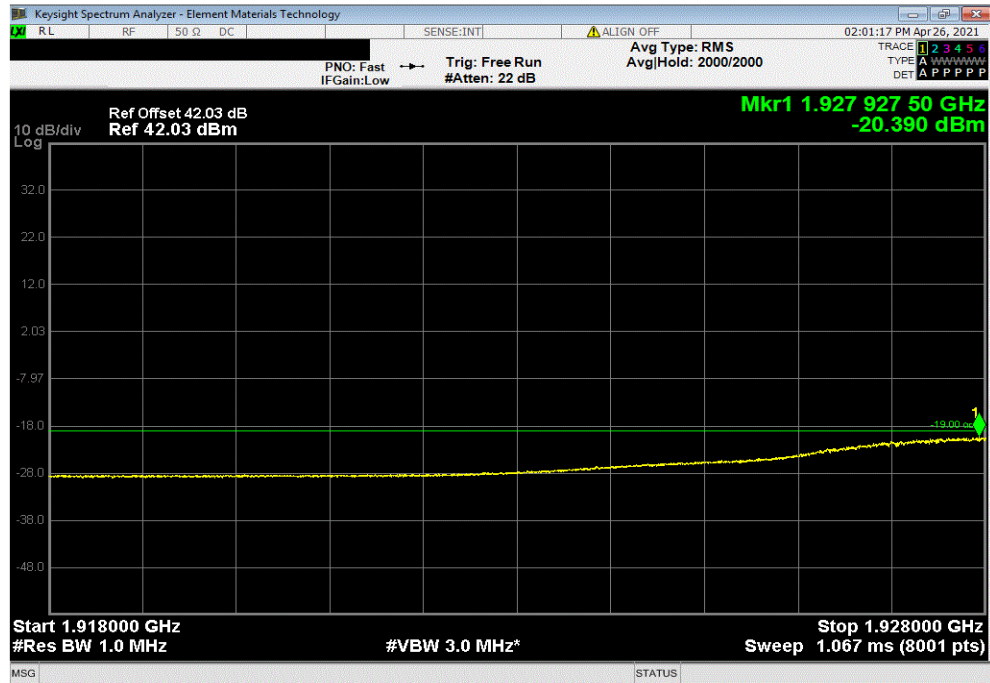
Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.31	-19	Pass			



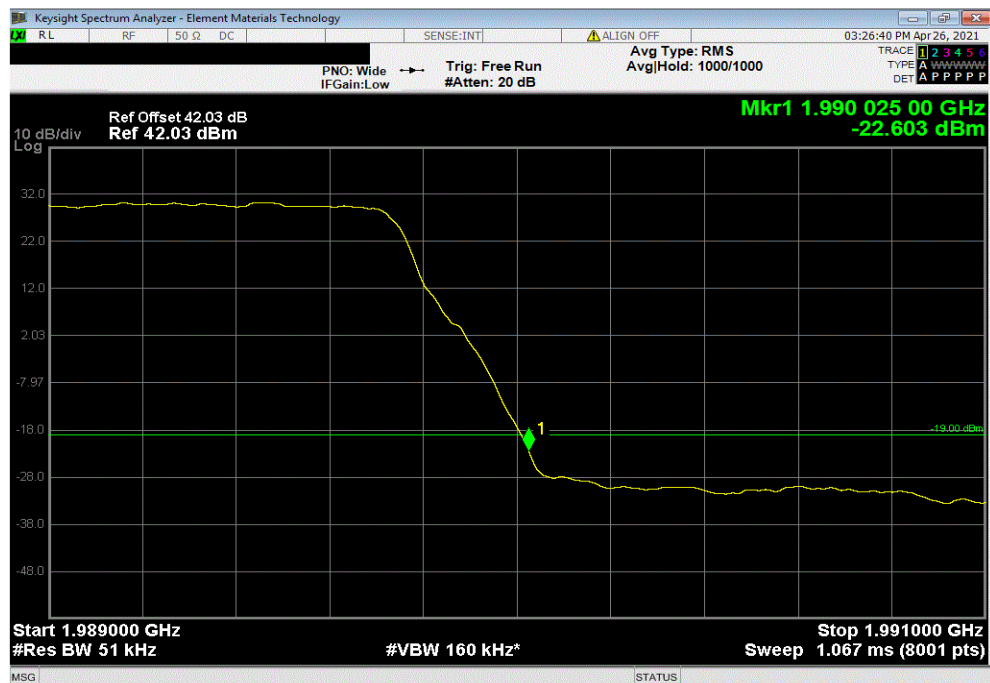
Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-21.17	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1932.5 MHz							
Frequency Range				Max Value (dBm)	Limit < (dBm)	Result	
	3			-20.39	-19	Pass	



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.6	-19	Pass			

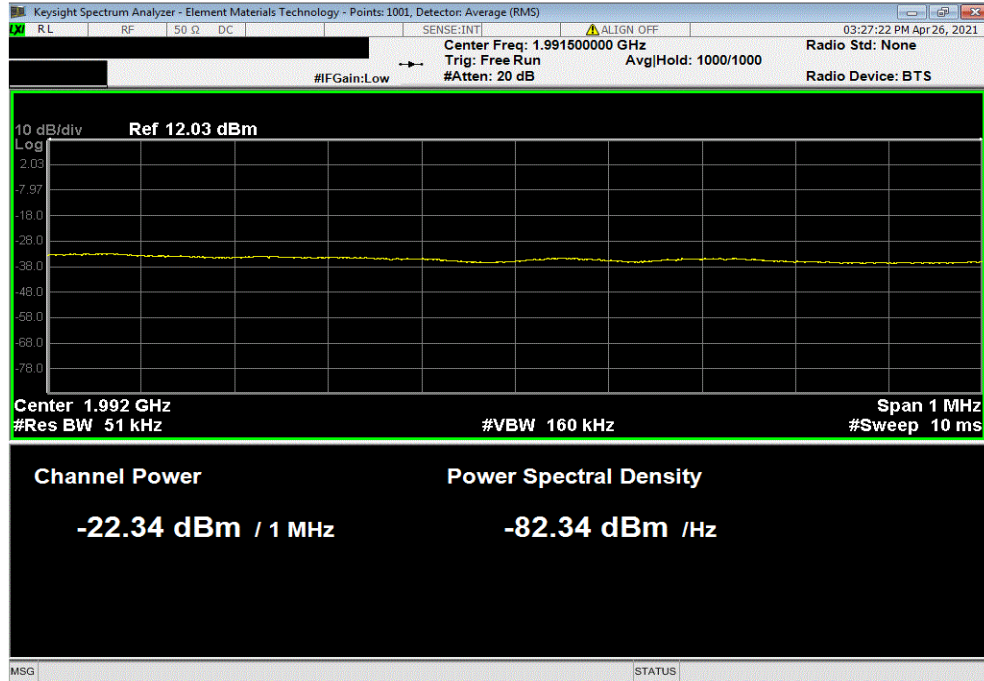


BAND EDGE COMPLIANCE

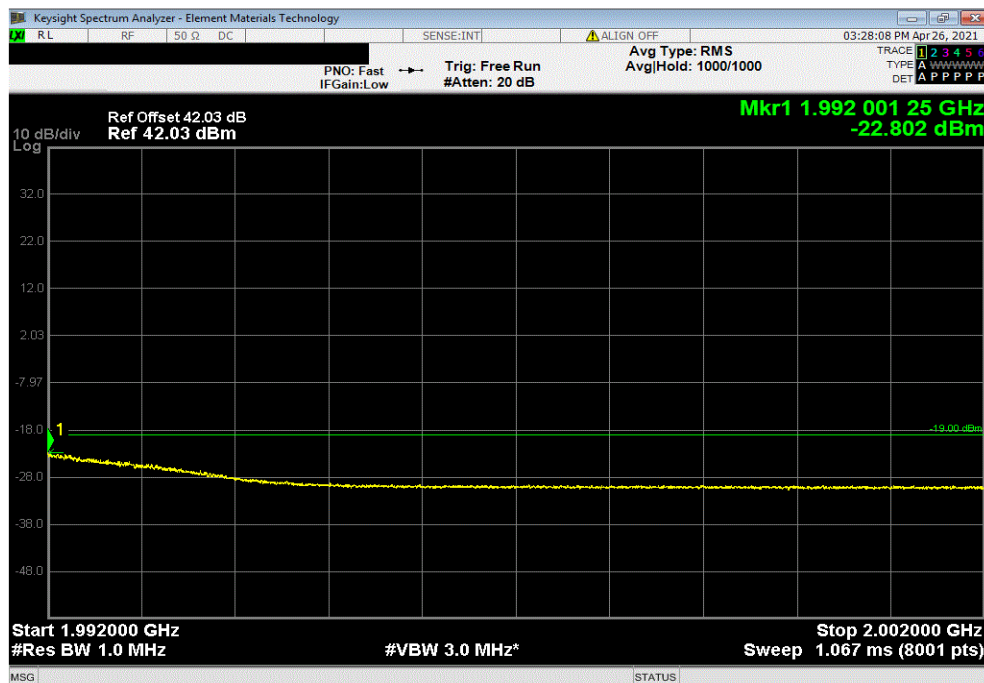


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.34	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 1987.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.8	-19	Pass			

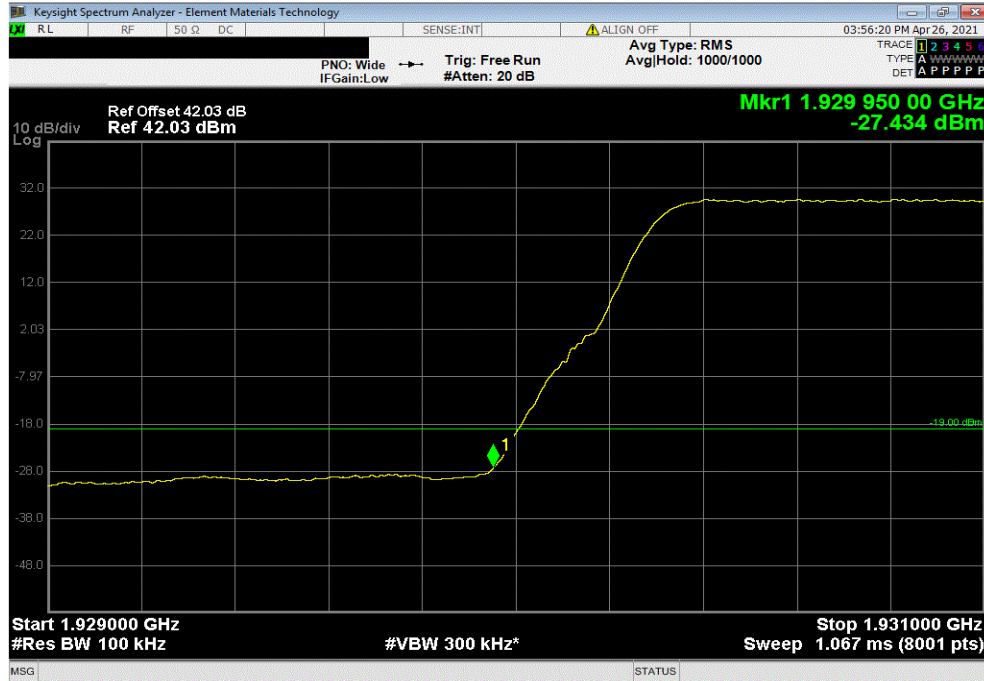


BAND EDGE COMPLIANCE

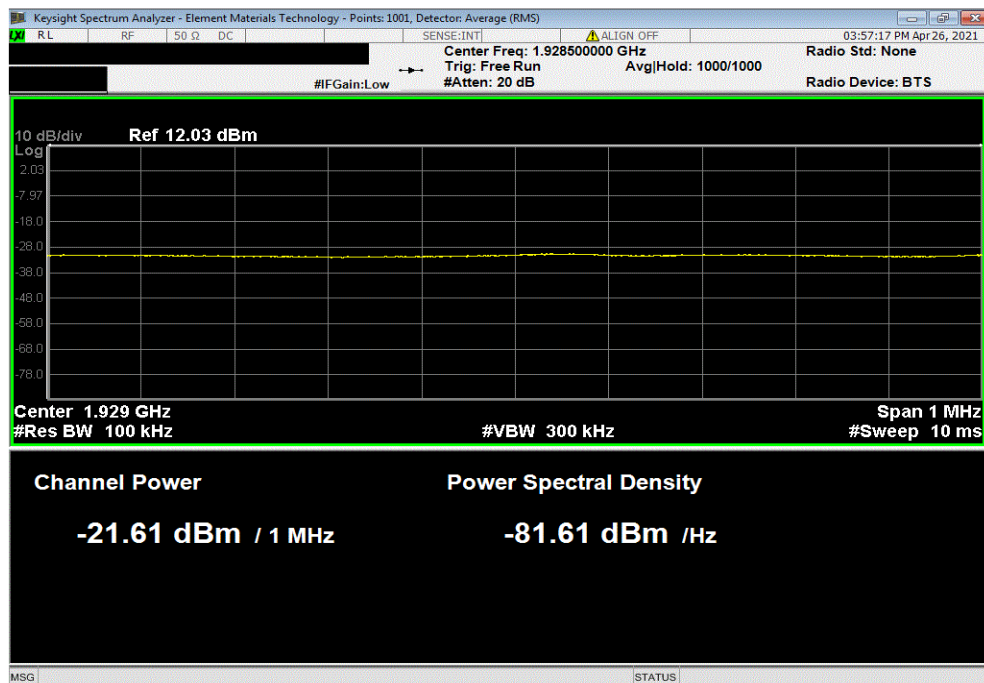


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 1935 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-27.43		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 1935 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
2		-21.61		-19		Pass

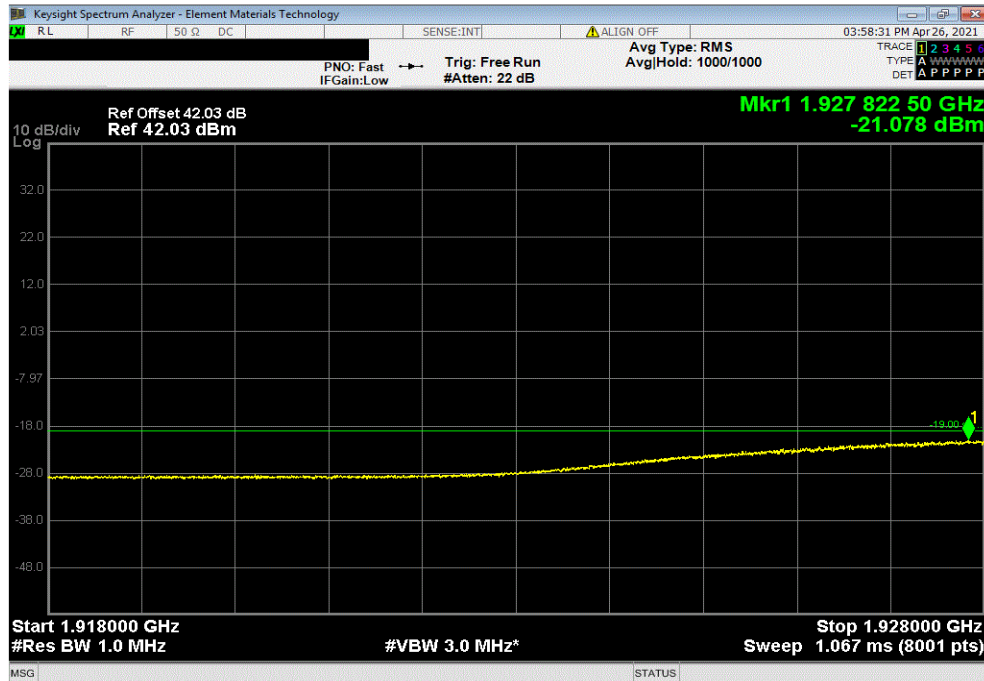


BAND EDGE COMPLIANCE

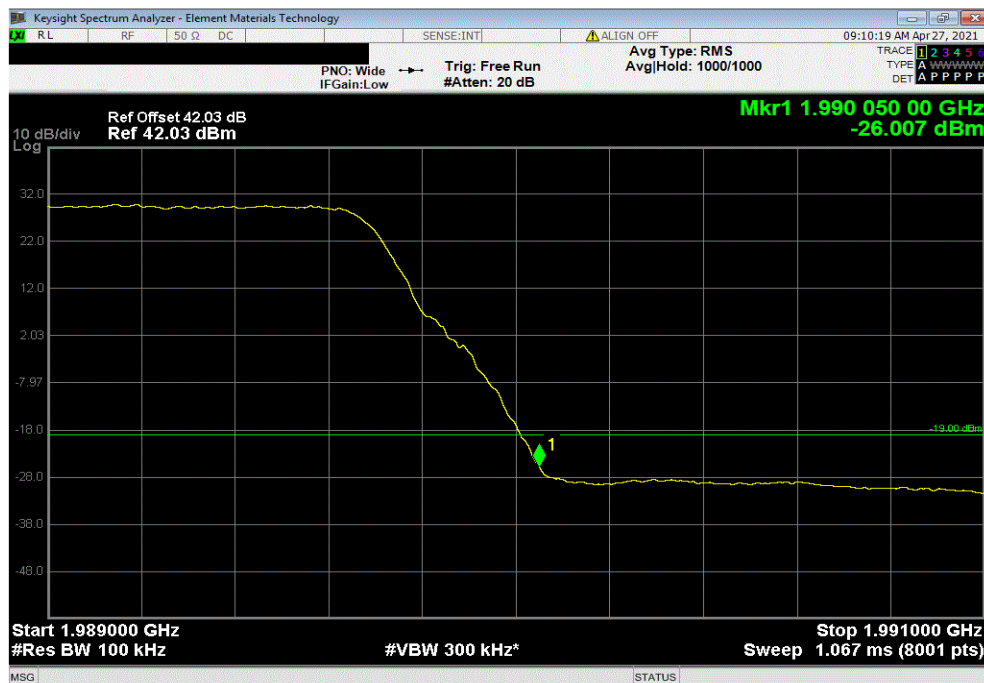


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, QPSK Modulation , Low Channel, 1935 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.08	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, QPSK Modulation , High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-26.01	-19	Pass			

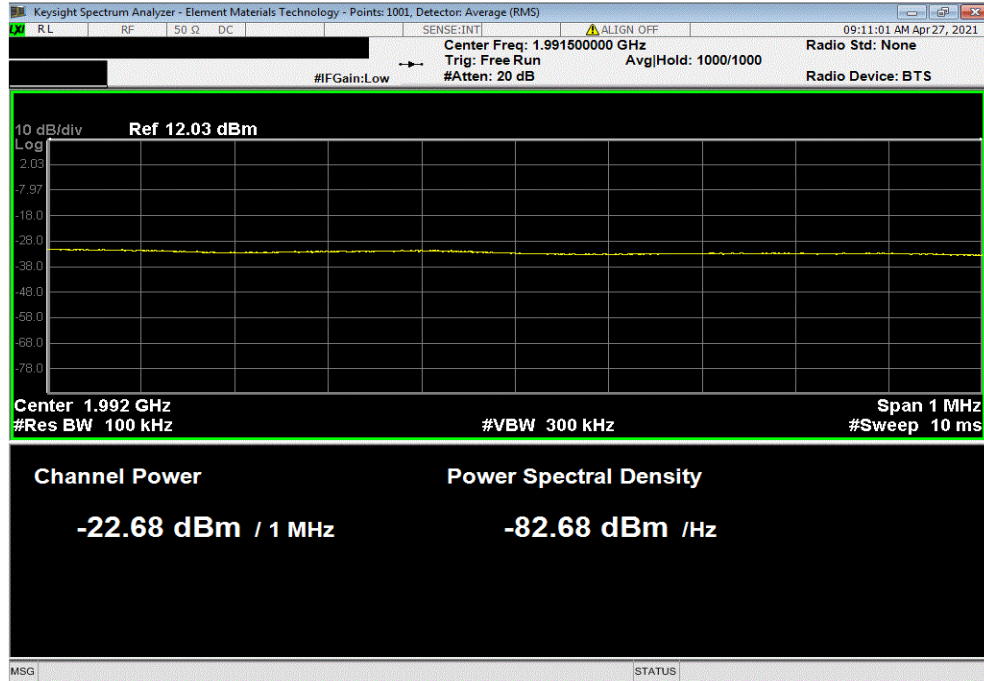


BAND EDGE COMPLIANCE

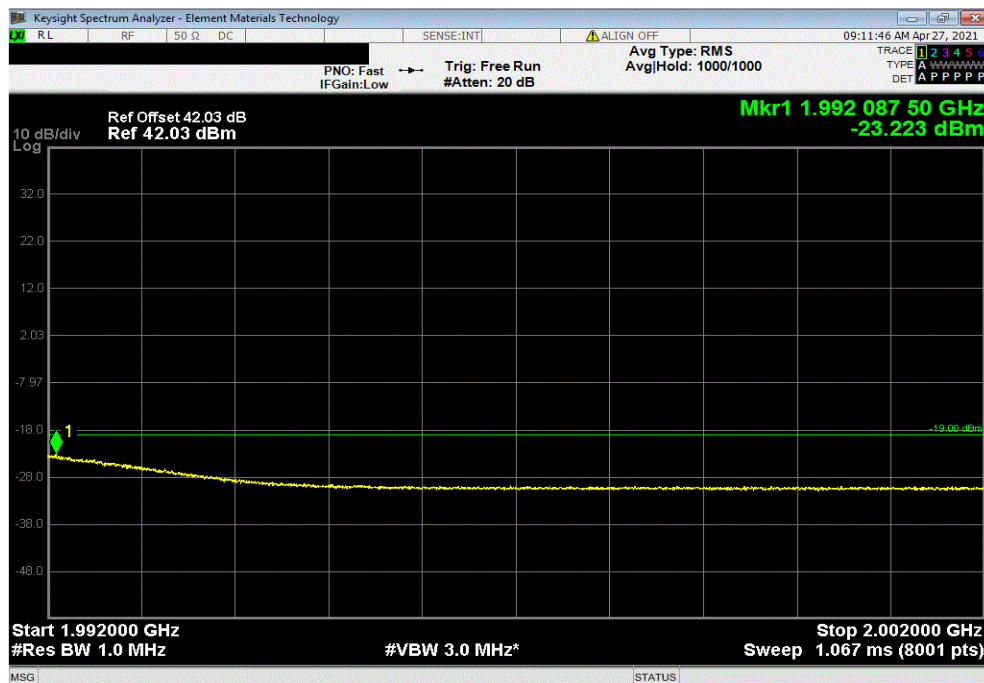


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, QPSK Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.68	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, QPSK Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.22	-19	Pass			

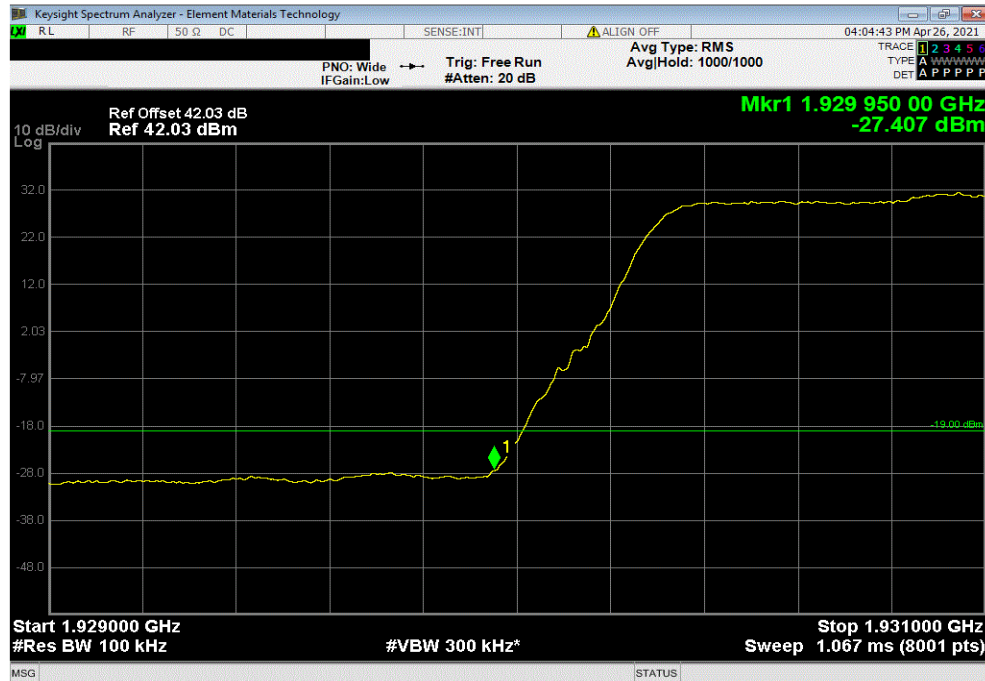


BAND EDGE COMPLIANCE

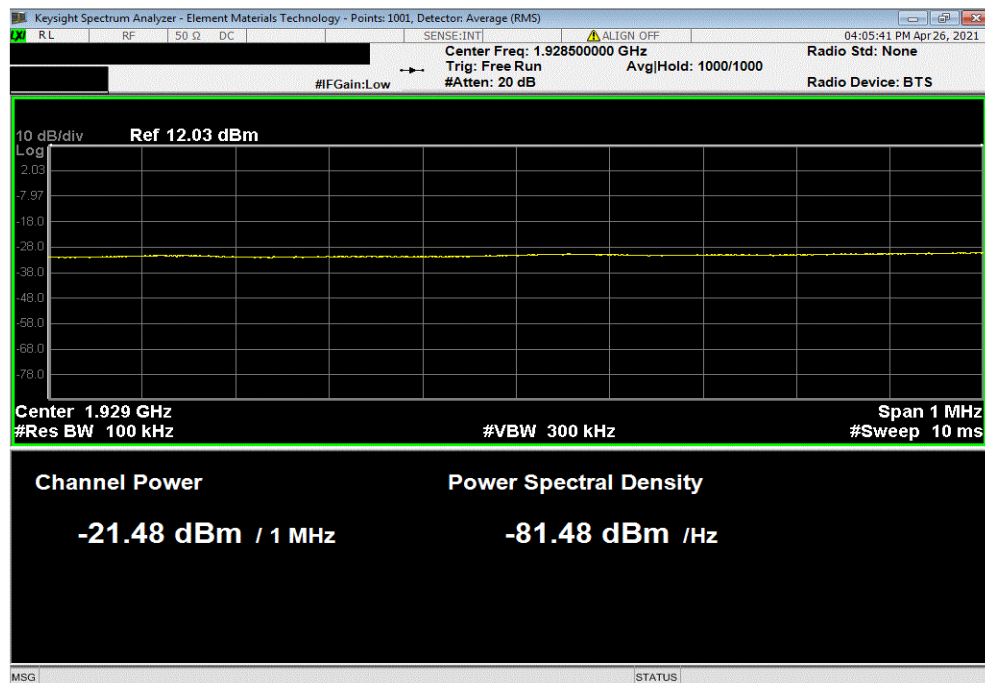


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1935 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-27.41		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1935 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
2		-21.48		-19		Pass

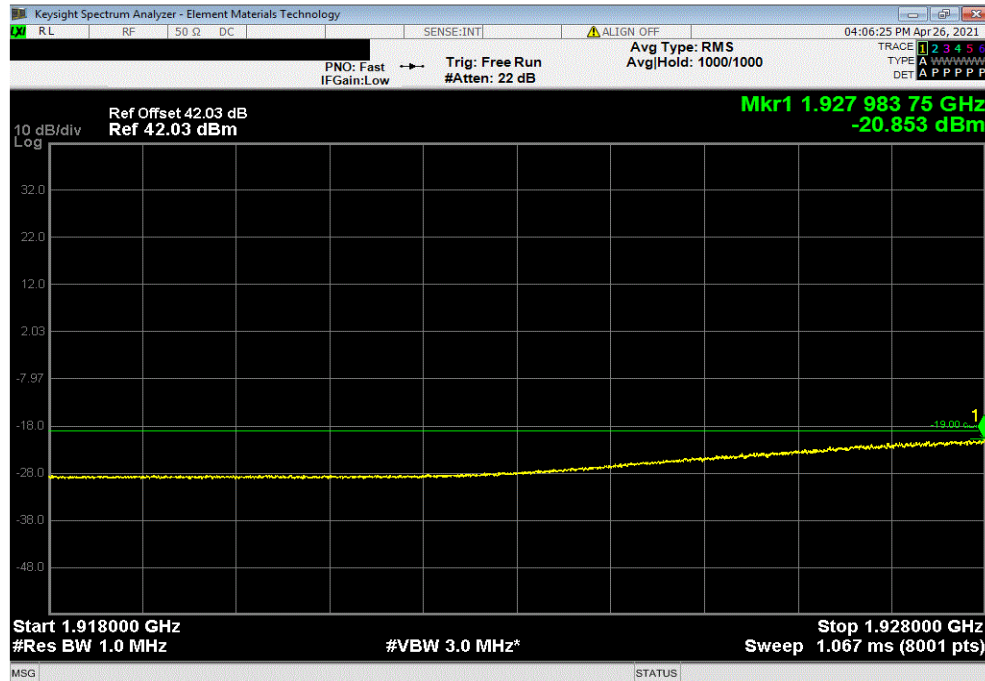


BAND EDGE COMPLIANCE

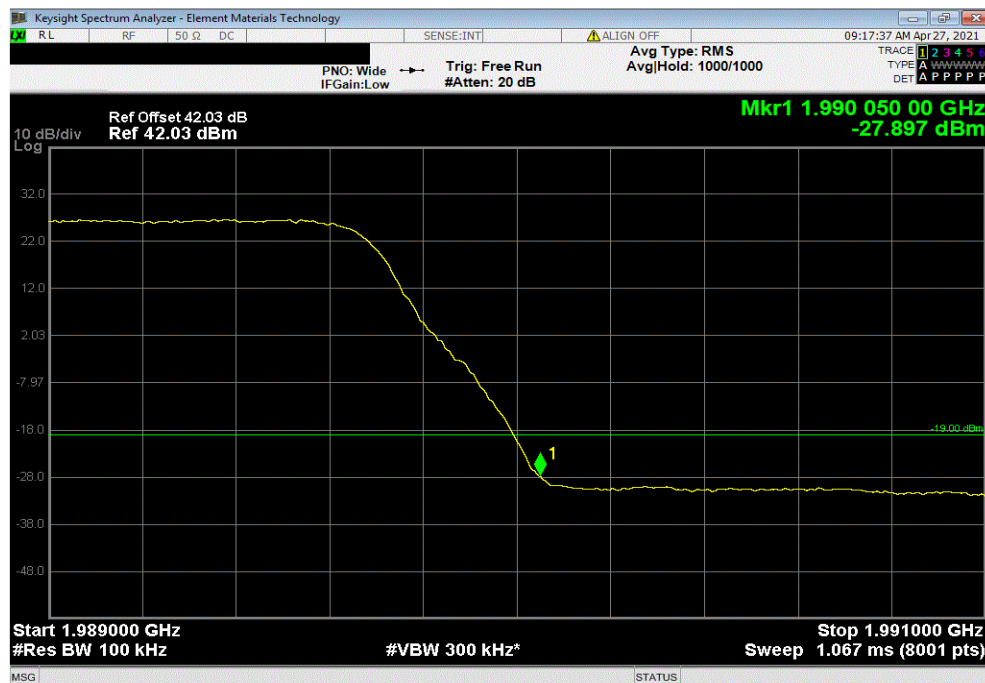


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1935 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-20.85	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 16-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-27.9	-19	Pass			

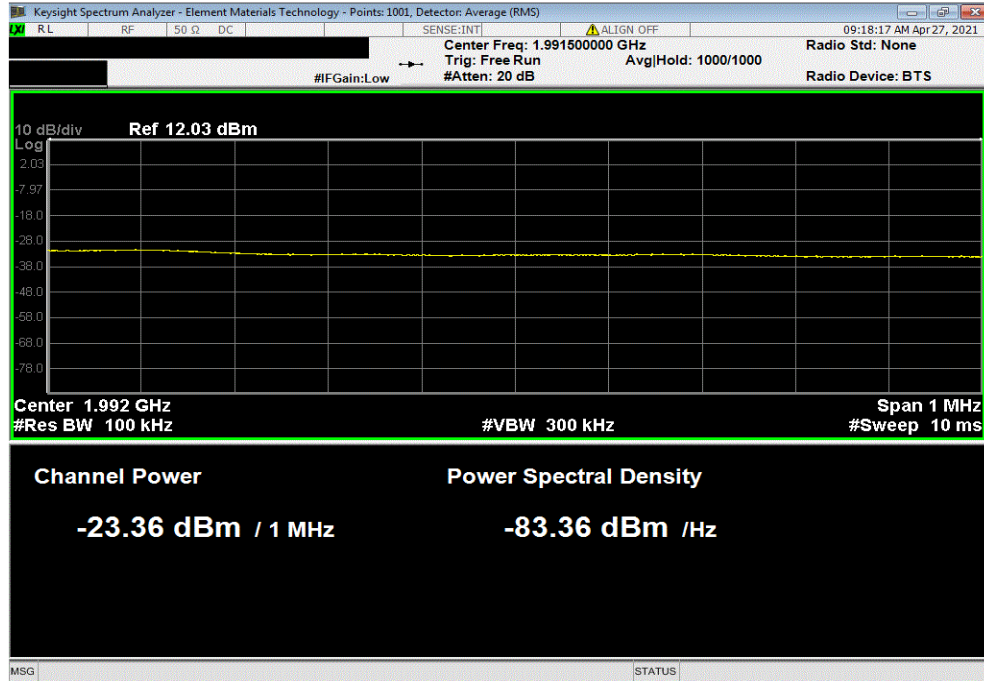


BAND EDGE COMPLIANCE

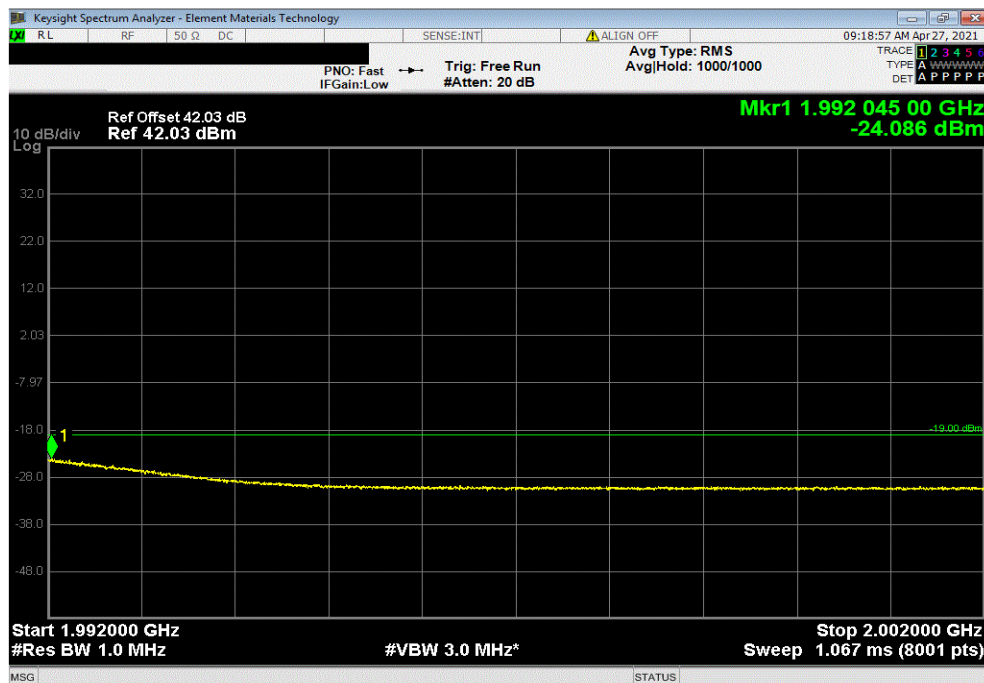


TbTx 2019.08.30.0 XMR 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 16-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.36	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 16-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-24.09	-19	Pass			

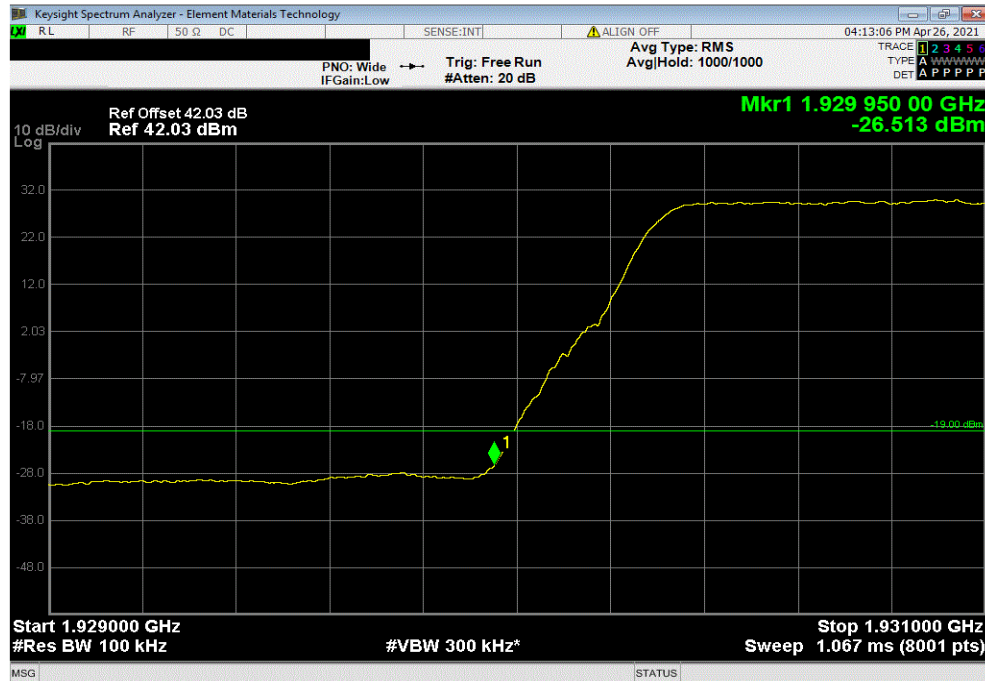


BAND EDGE COMPLIANCE

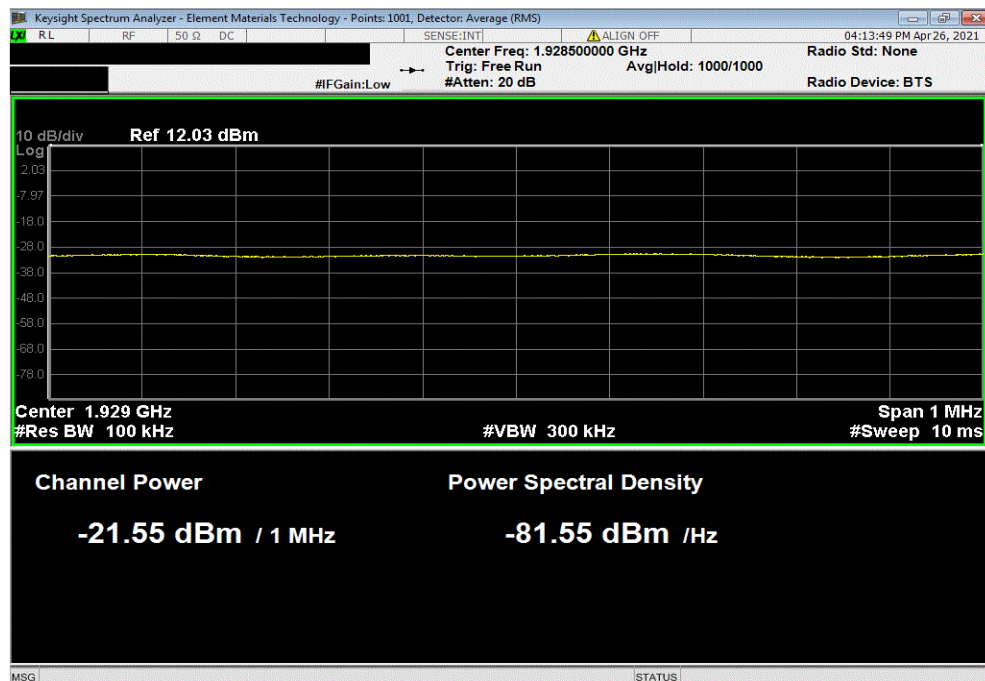


TbTx 2019.08.30.0 XMtX 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1935 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-26.51		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1935 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
2		-21.55		-19		Pass

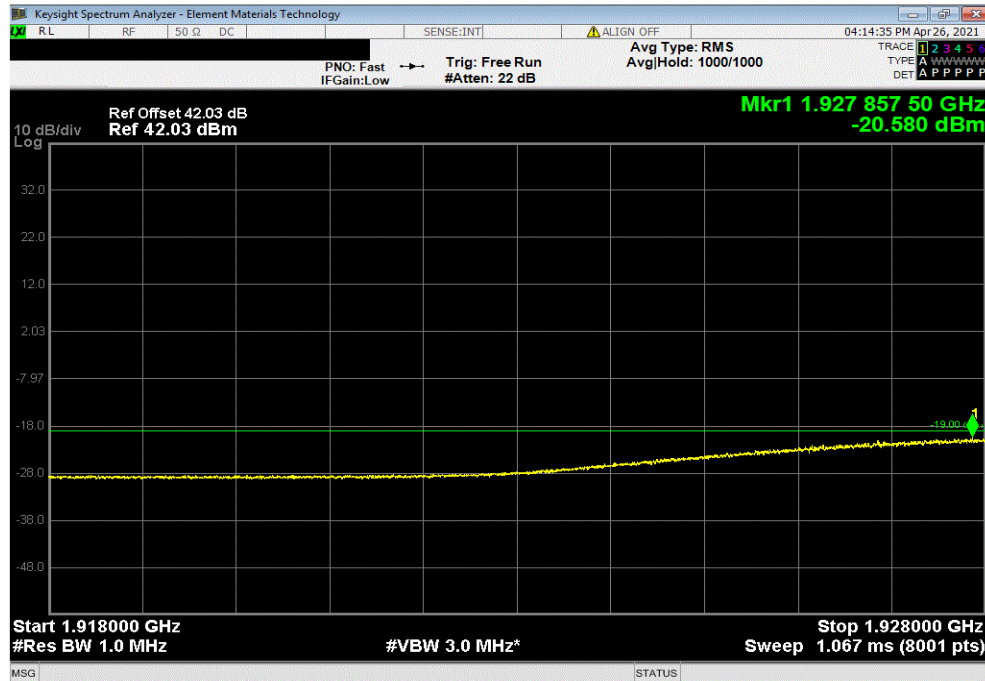


BAND EDGE COMPLIANCE

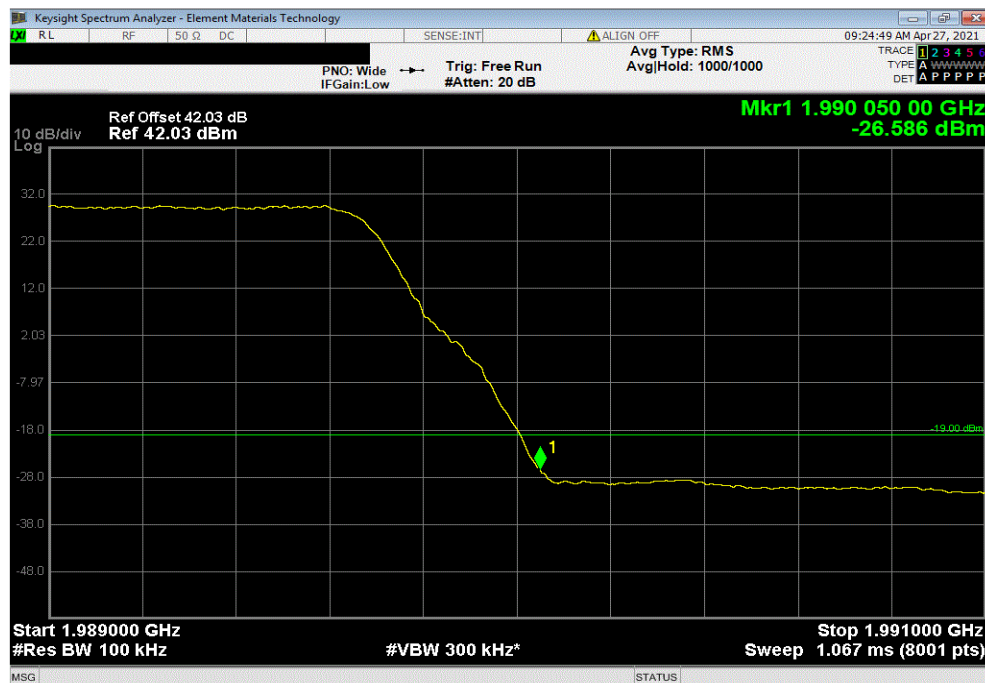


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1935 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
3		-20.58		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 64-QAM Modulation, High Channel, 1985 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-26.59		-19		Pass

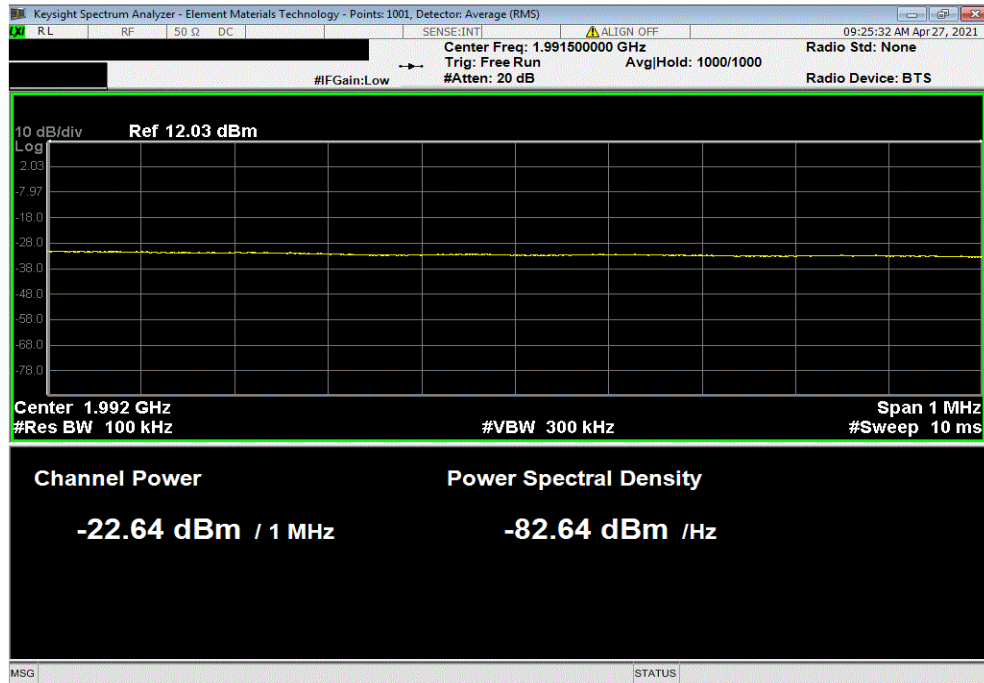


BAND EDGE COMPLIANCE

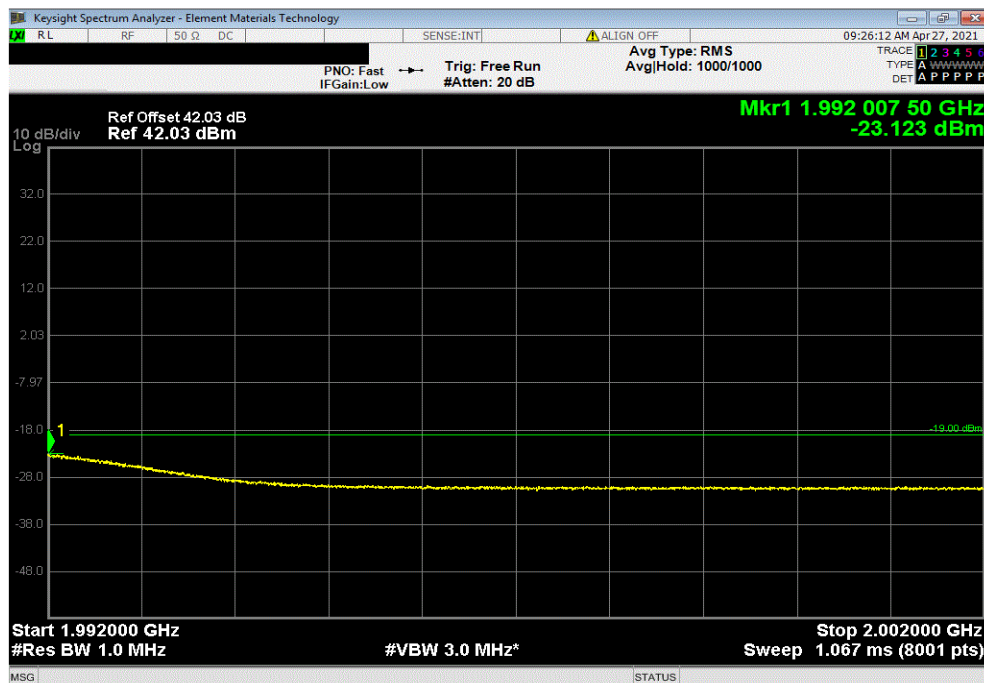


TM1Tx 2019.08.30.0 XM1 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 64-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.64	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 64-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.12	-19	Pass			

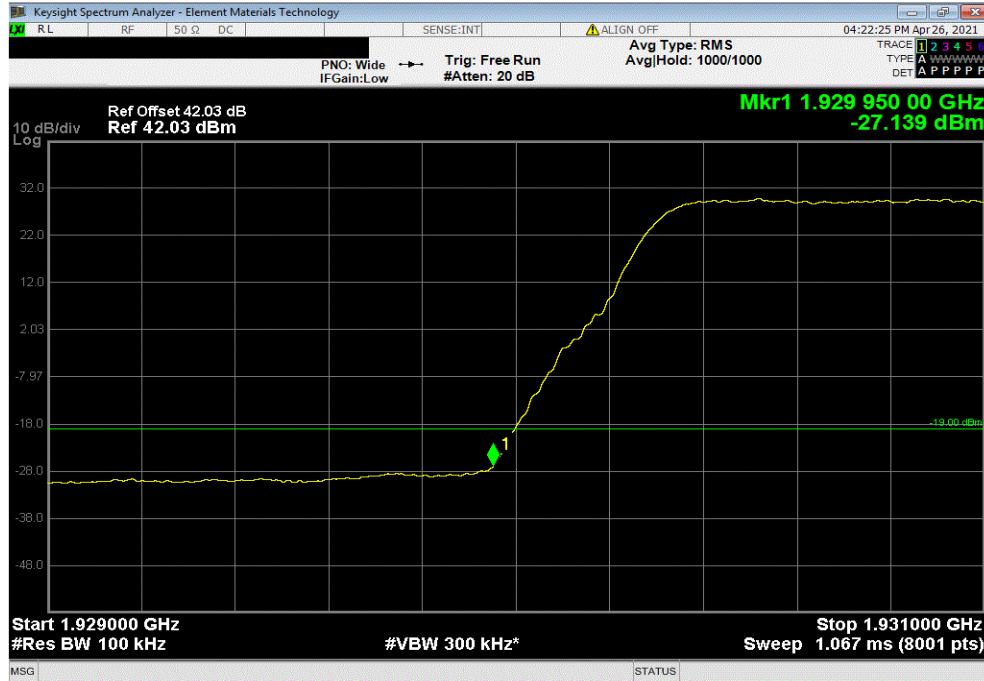


BAND EDGE COMPLIANCE

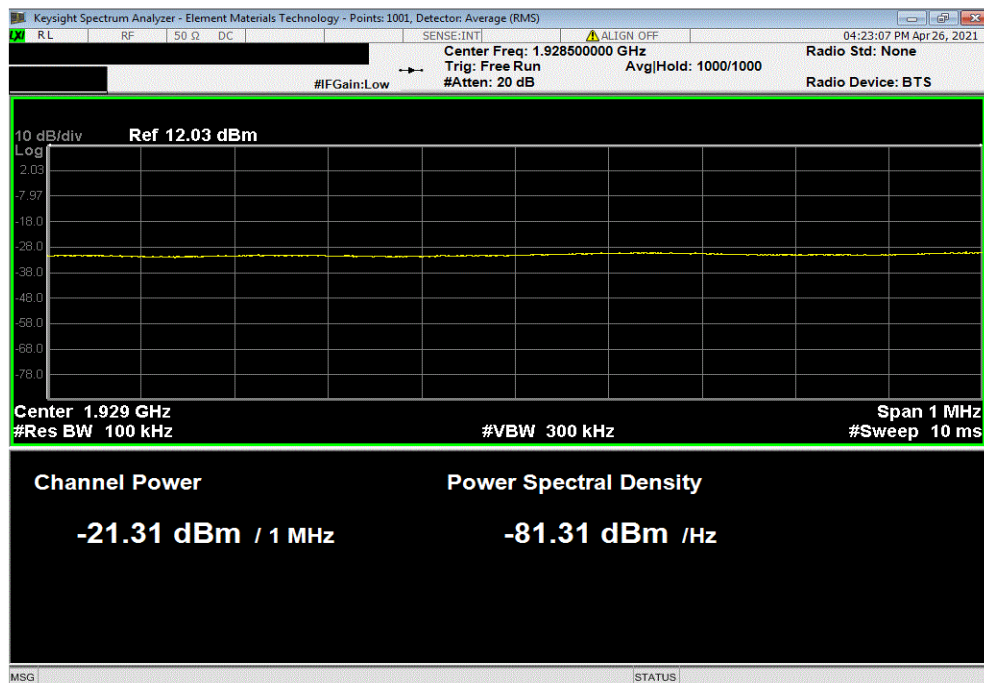


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1935 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-27.14		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1935 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
2		-21.31		-19		Pass

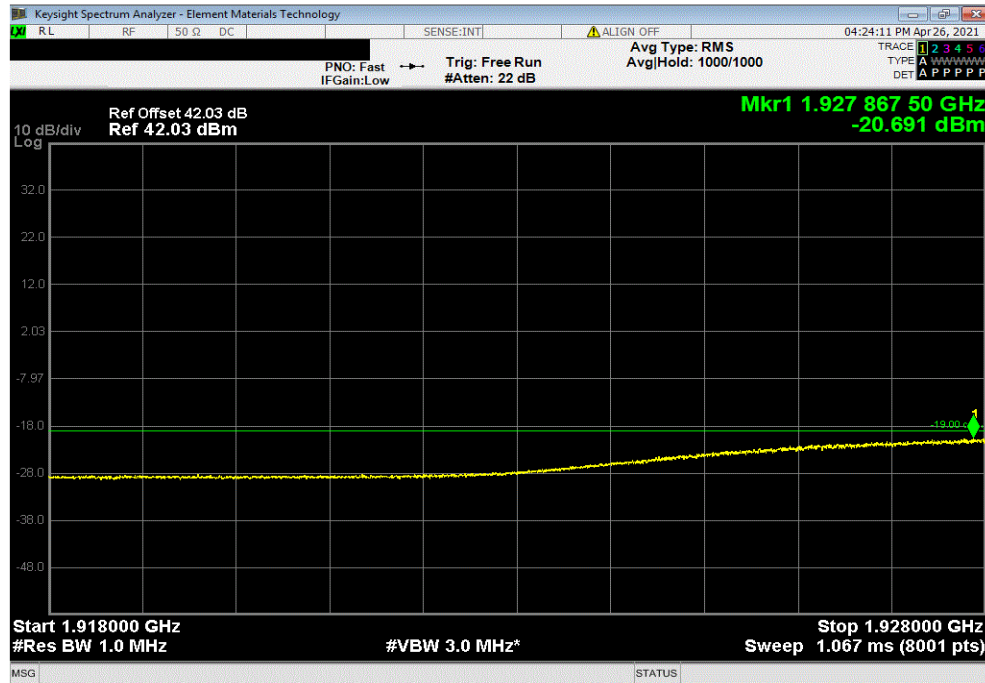


BAND EDGE COMPLIANCE

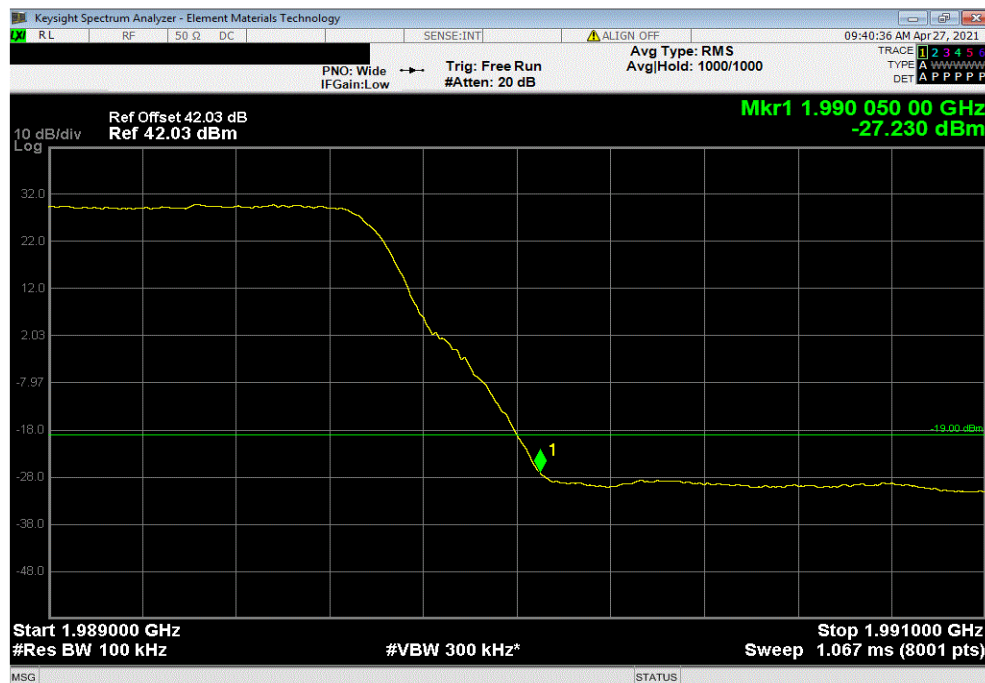


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1935 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-20.69	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-27.23	-19	Pass			

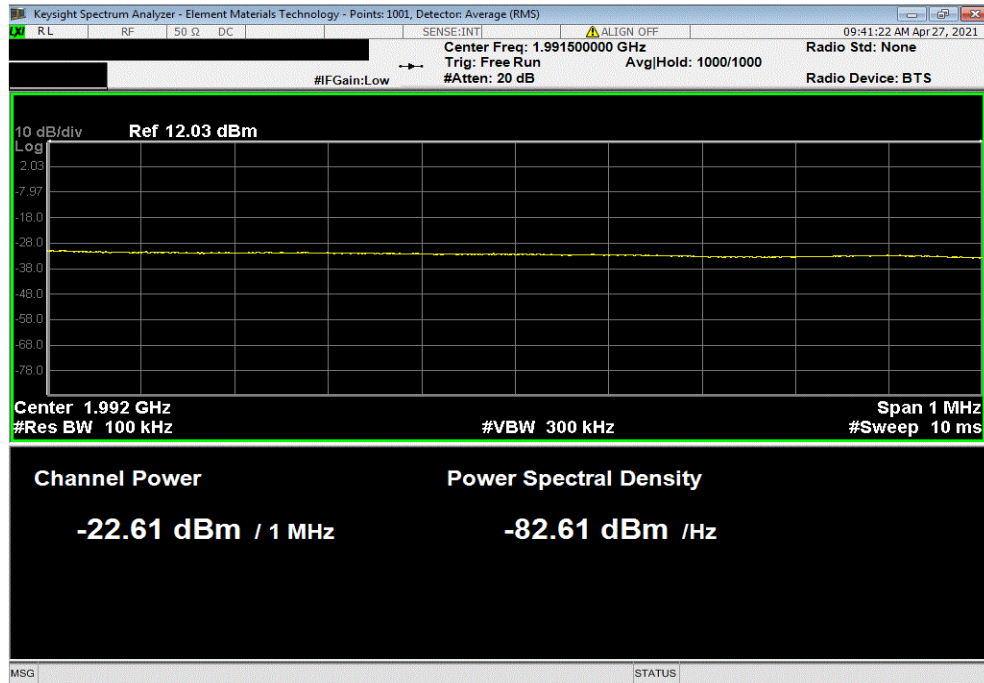


BAND EDGE COMPLIANCE

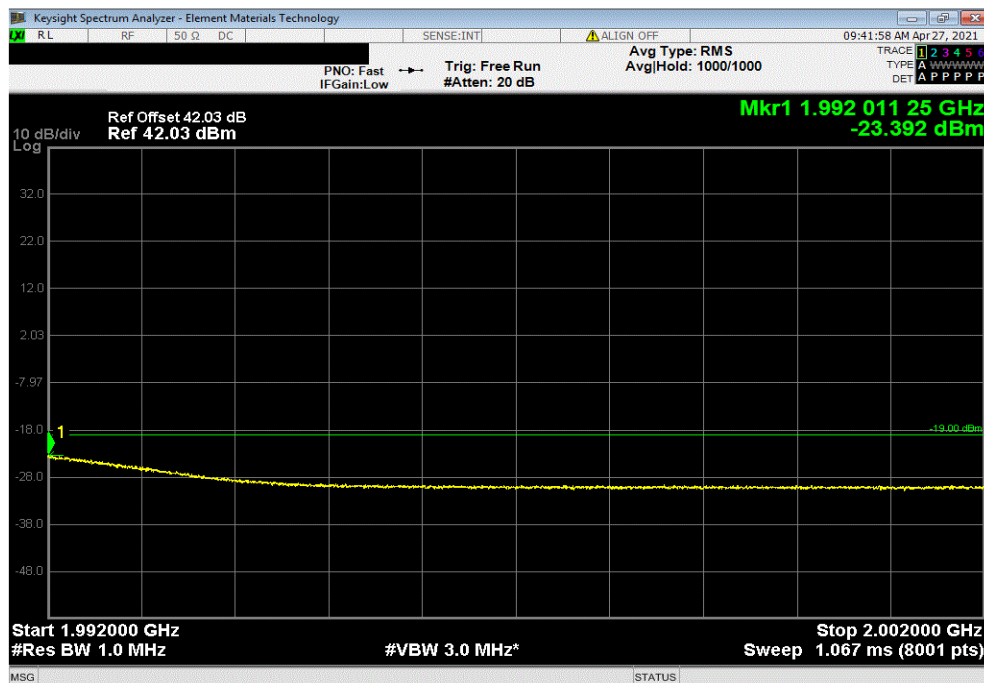


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.61	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 1985 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.39	-19	Pass			

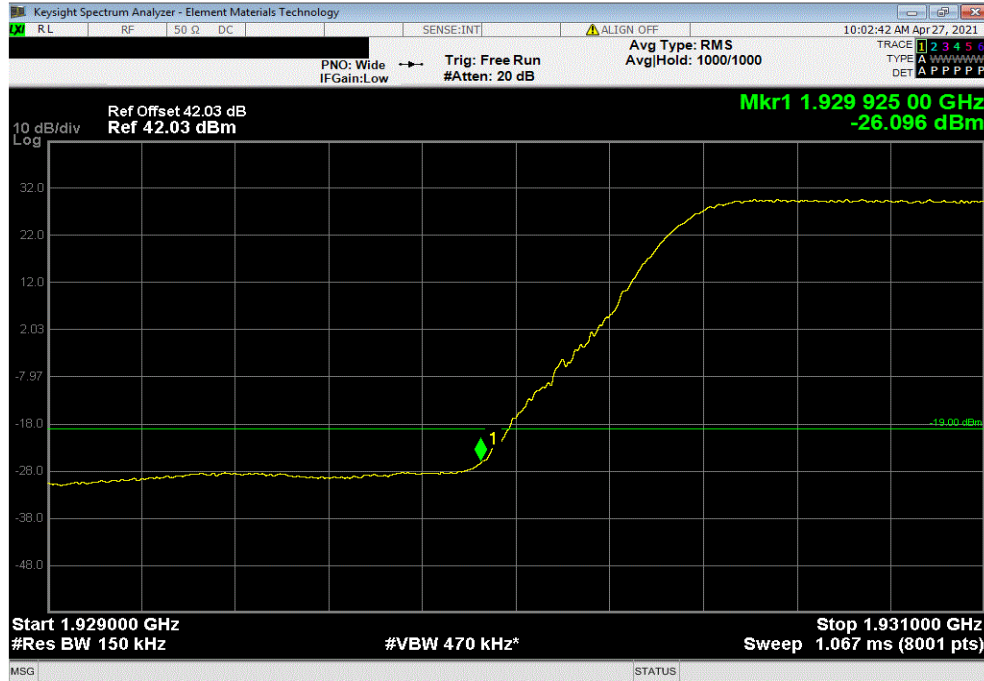


BAND EDGE COMPLIANCE

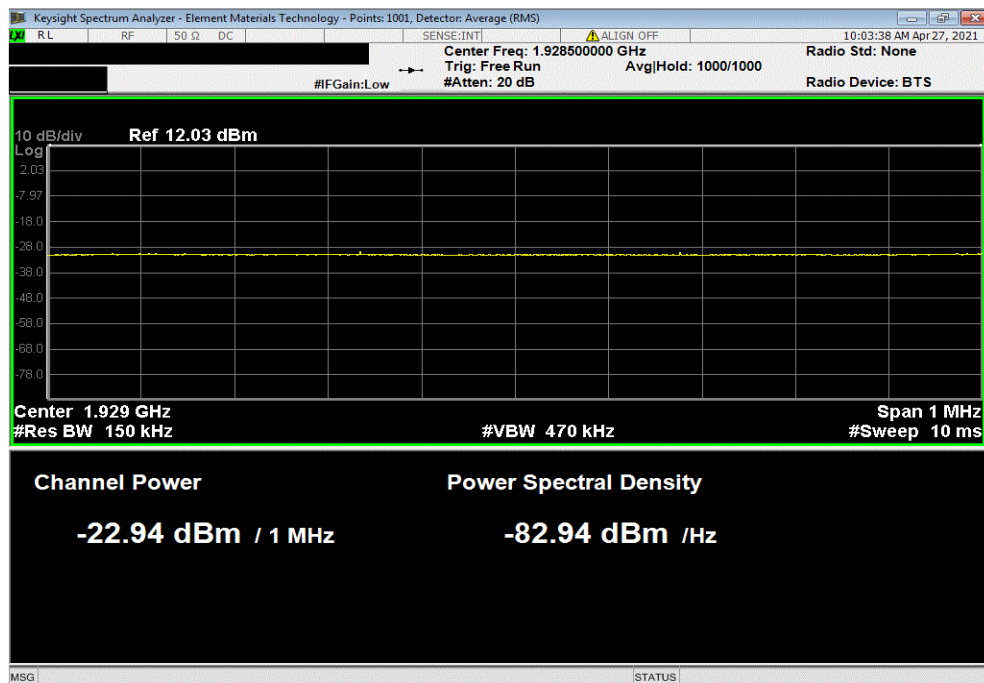


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, QPSK Modulation, Low Channel, 1937.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-26.1	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, QPSK Modulation, Low Channel, 1937.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.94	-19	Pass			

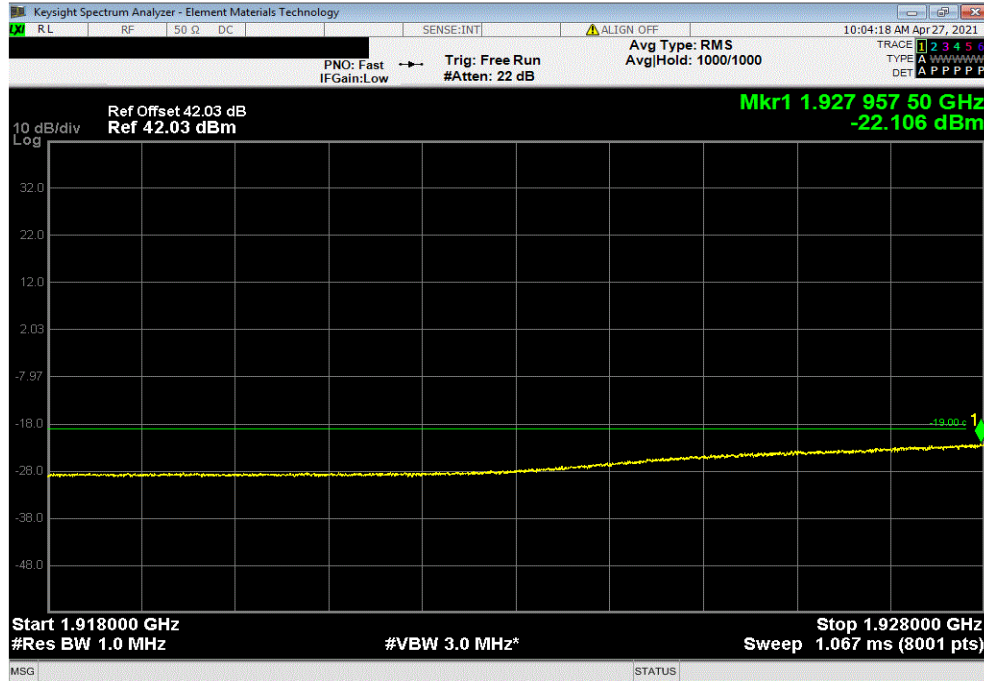


BAND EDGE COMPLIANCE

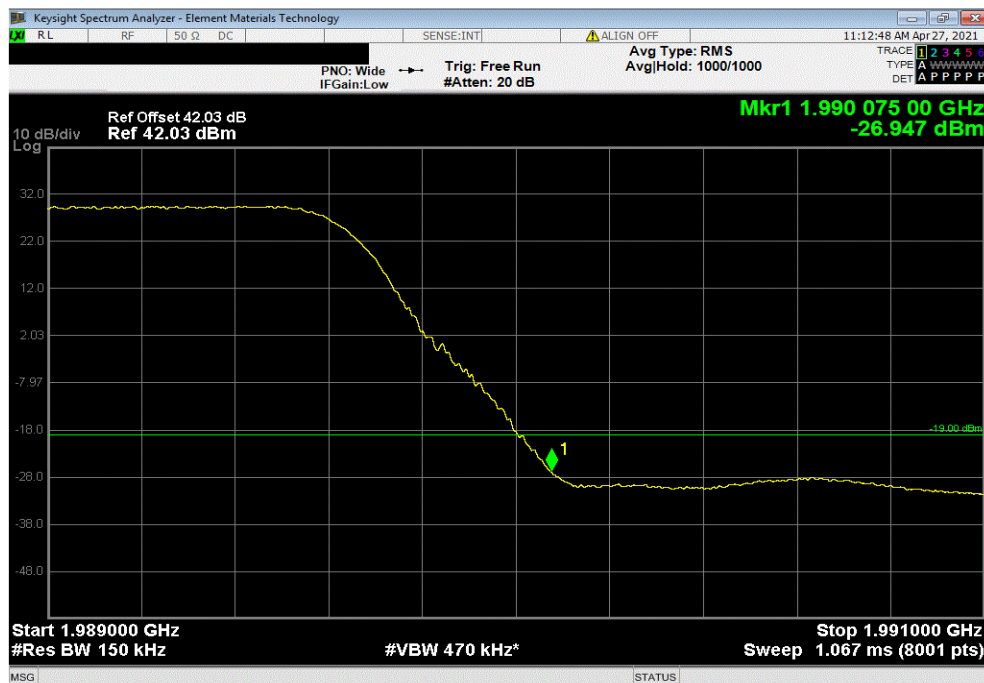


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, QPSK Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
3		-22.11		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, QPSK Modulation, High Channel, 1982.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-26.95		-19		Pass

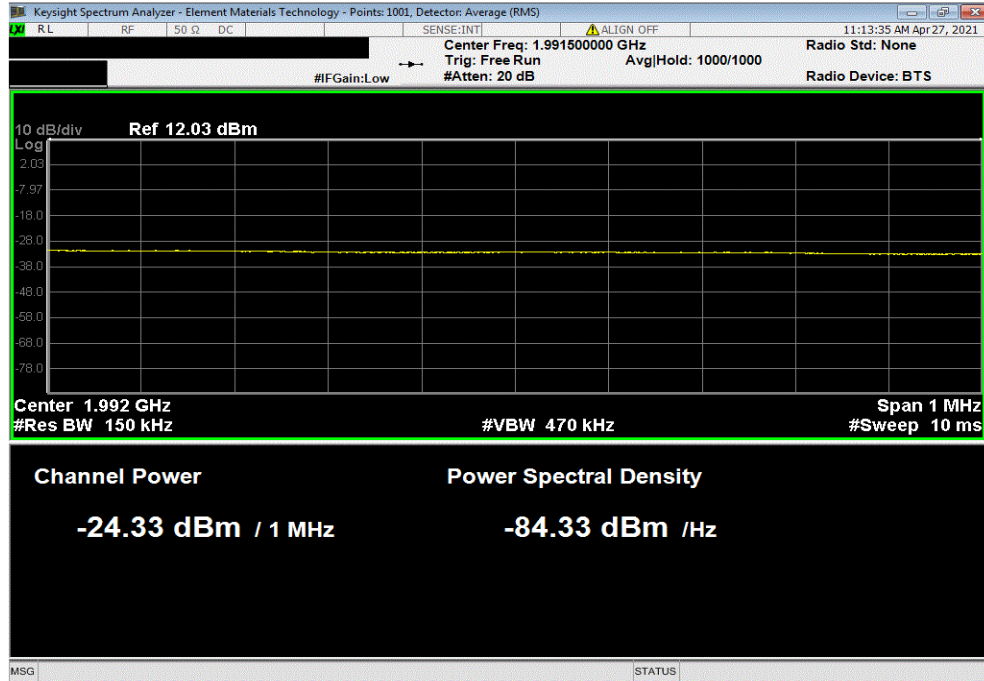


BAND EDGE COMPLIANCE

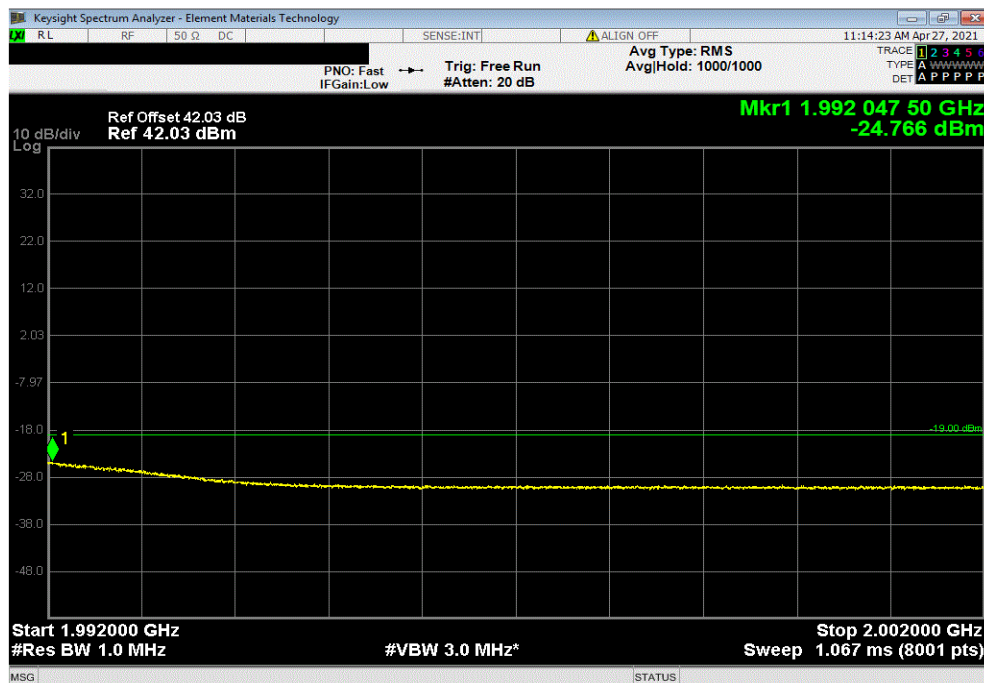


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, QPSK Modulation, High Channel, 1982.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-24.33	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, QPSK Modulation, High Channel, 1982.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-24.77	-19	Pass			

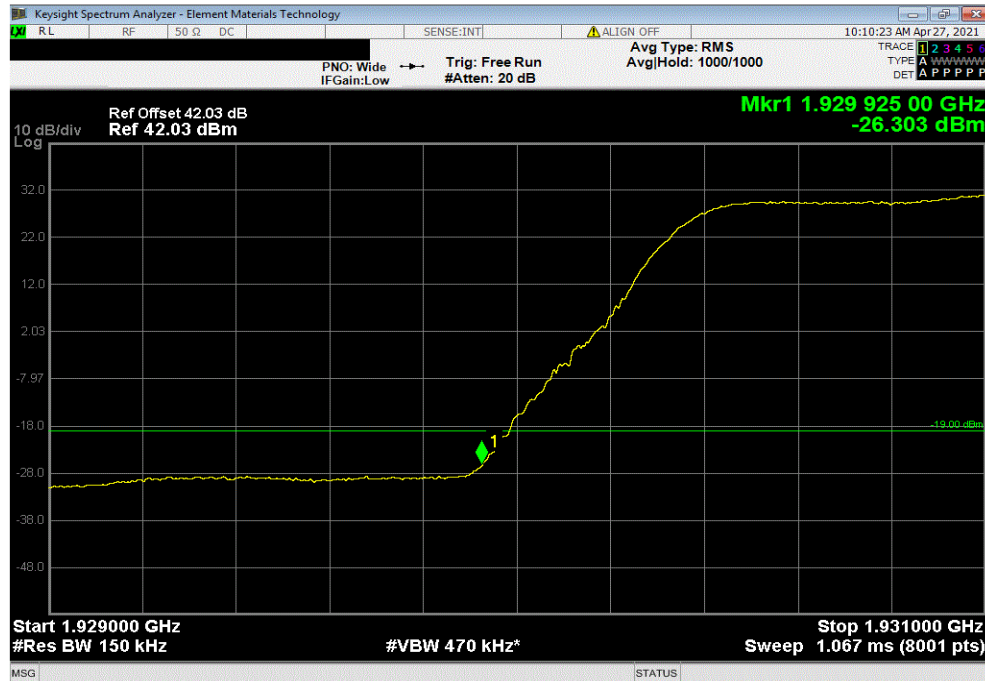


BAND EDGE COMPLIANCE

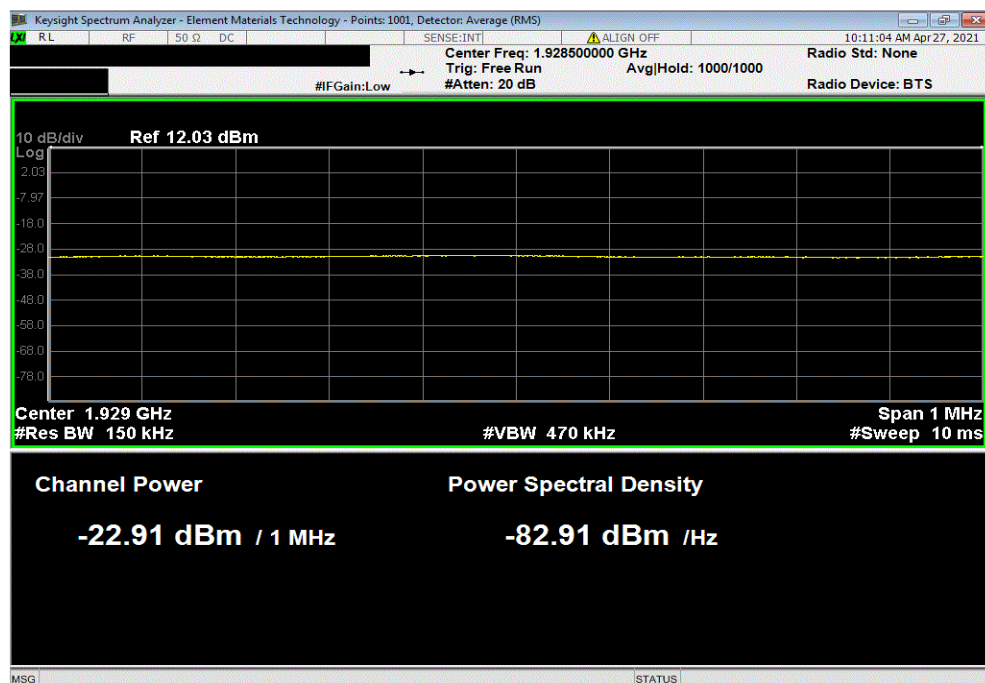


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-26.3		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
2		-22.91		-19		Pass

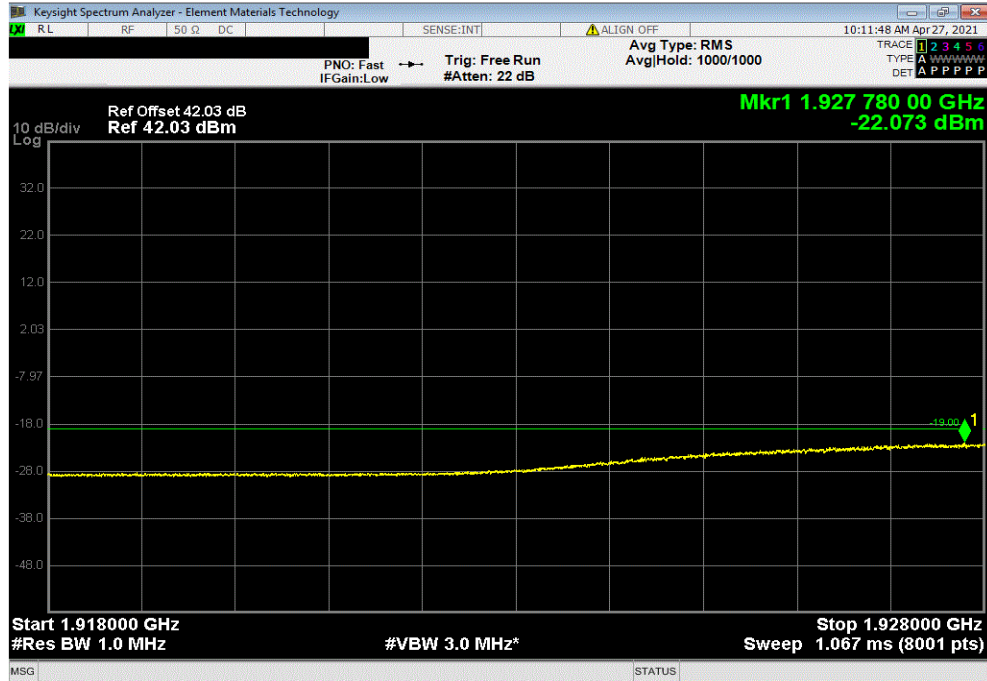


BAND EDGE COMPLIANCE

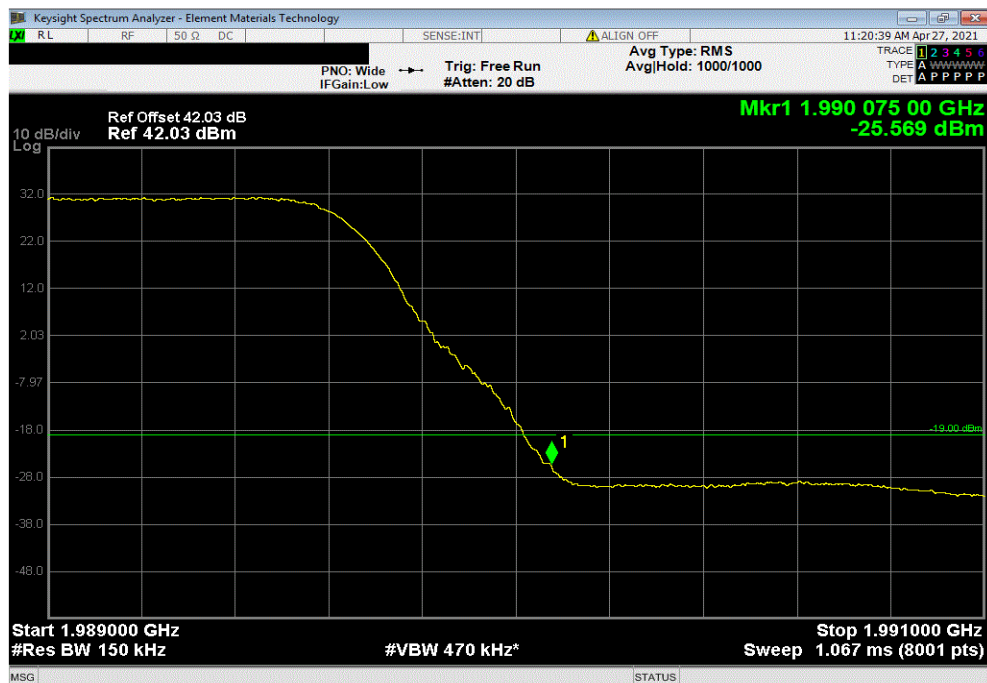


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
3		-22.07		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, High Channel, 1982.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-25.57		-19		Pass

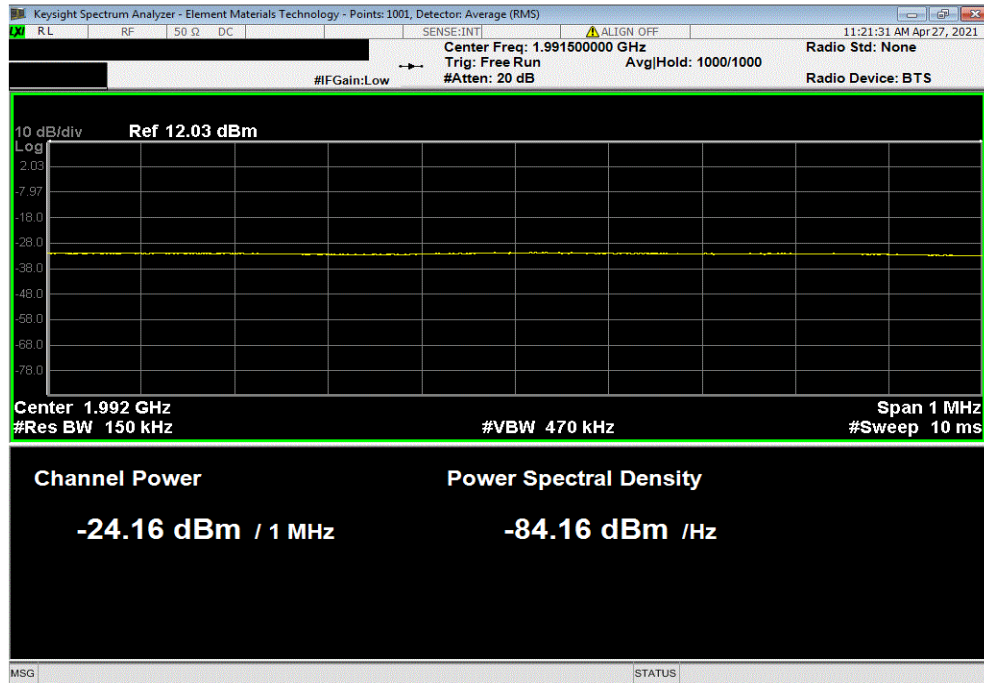


BAND EDGE COMPLIANCE

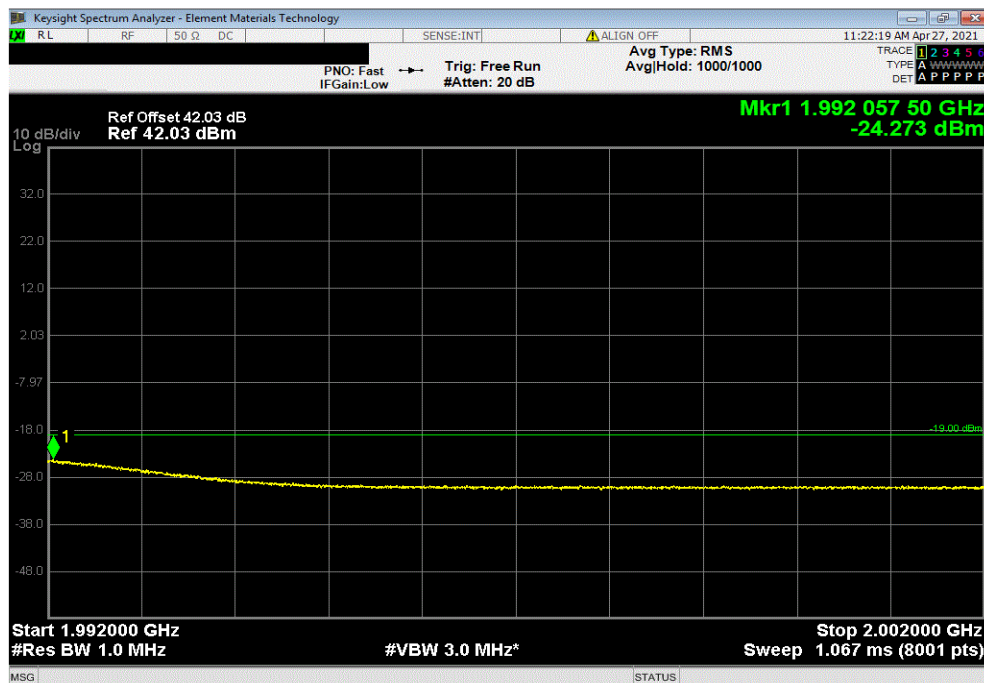


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, High Channel, 1982.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-24.16	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, High Channel, 1982.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-24.27	-19	Pass			

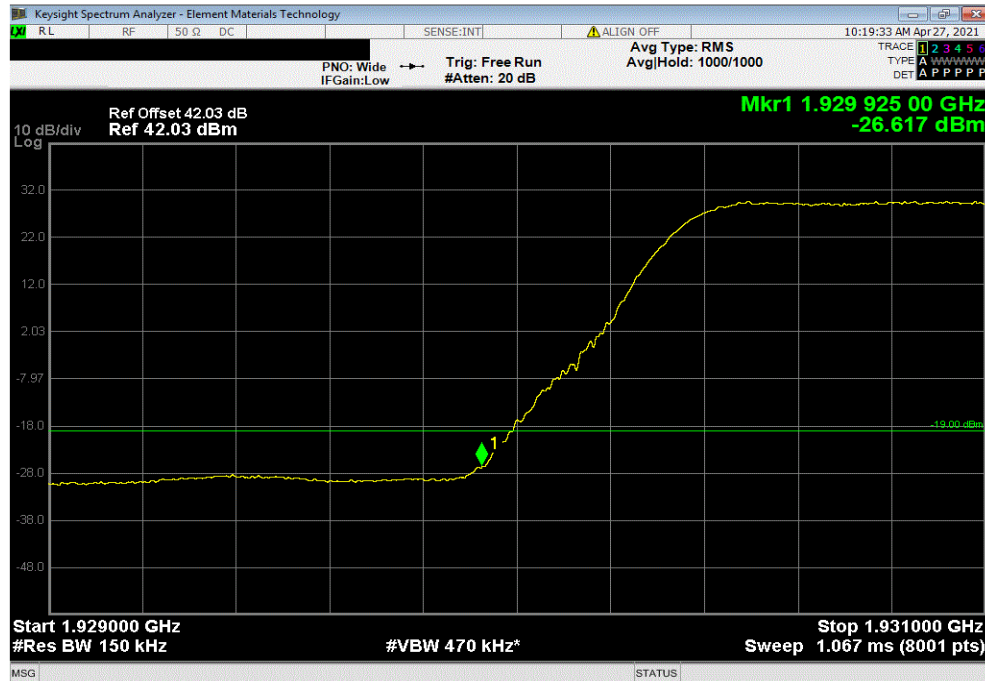


BAND EDGE COMPLIANCE

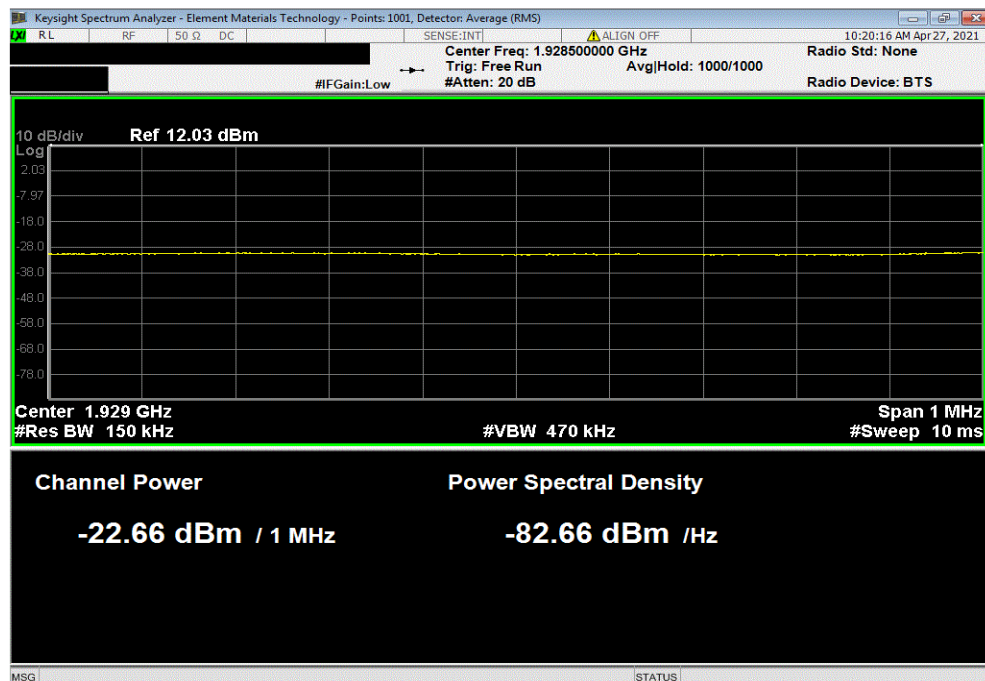


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-26.62		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
2		-22.66		-19		Pass

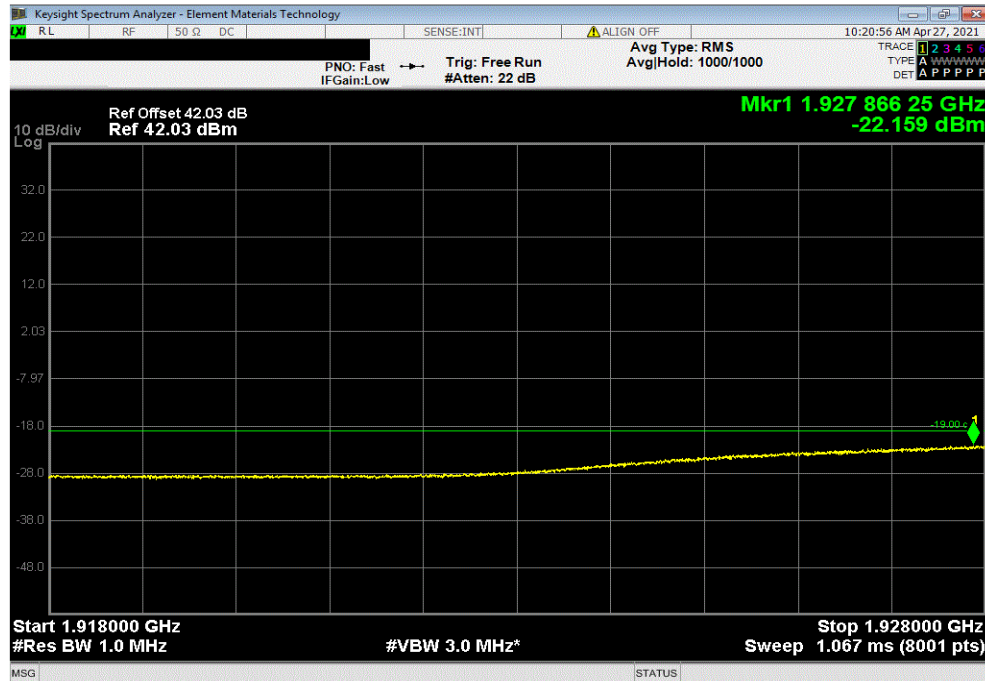


BAND EDGE COMPLIANCE

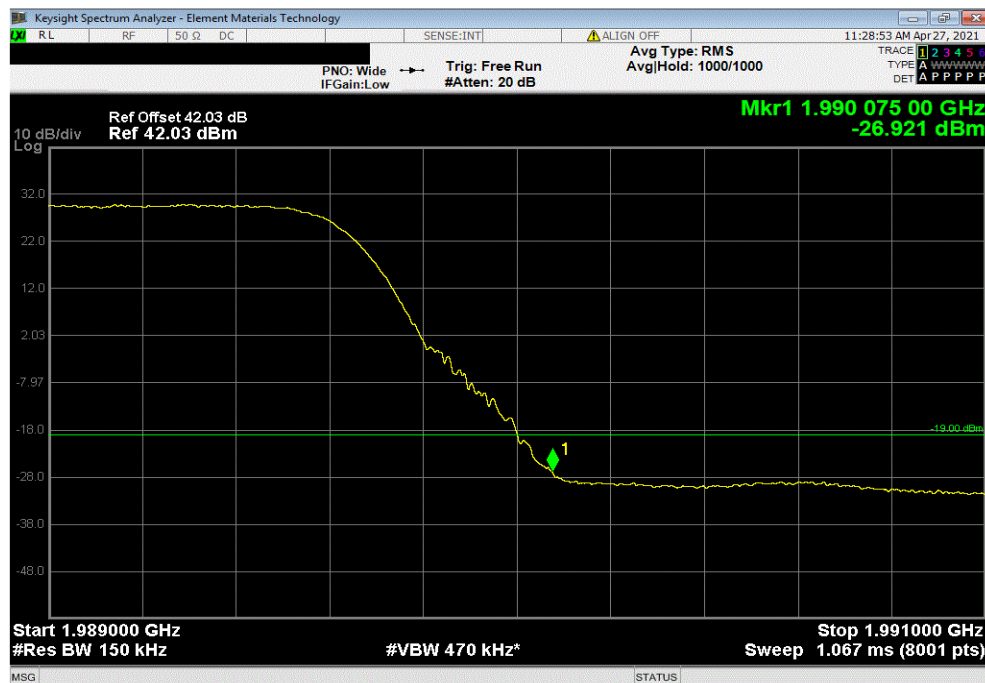


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
3		-22.16		-19	Pass	



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, High Channel, 1982.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
1		-26.92		-19	Pass	

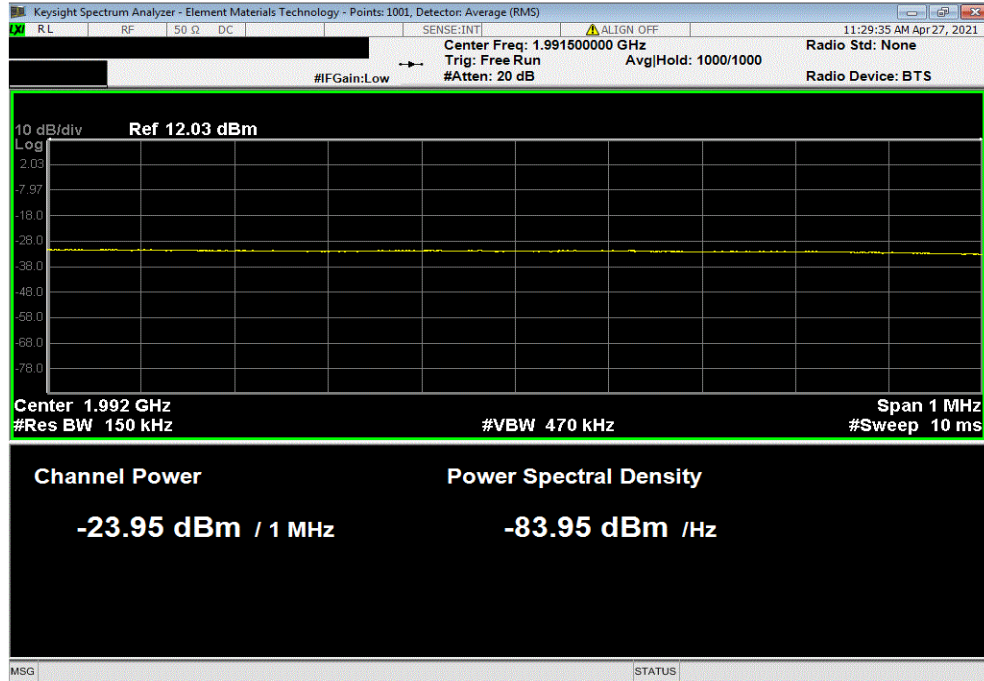


BAND EDGE COMPLIANCE

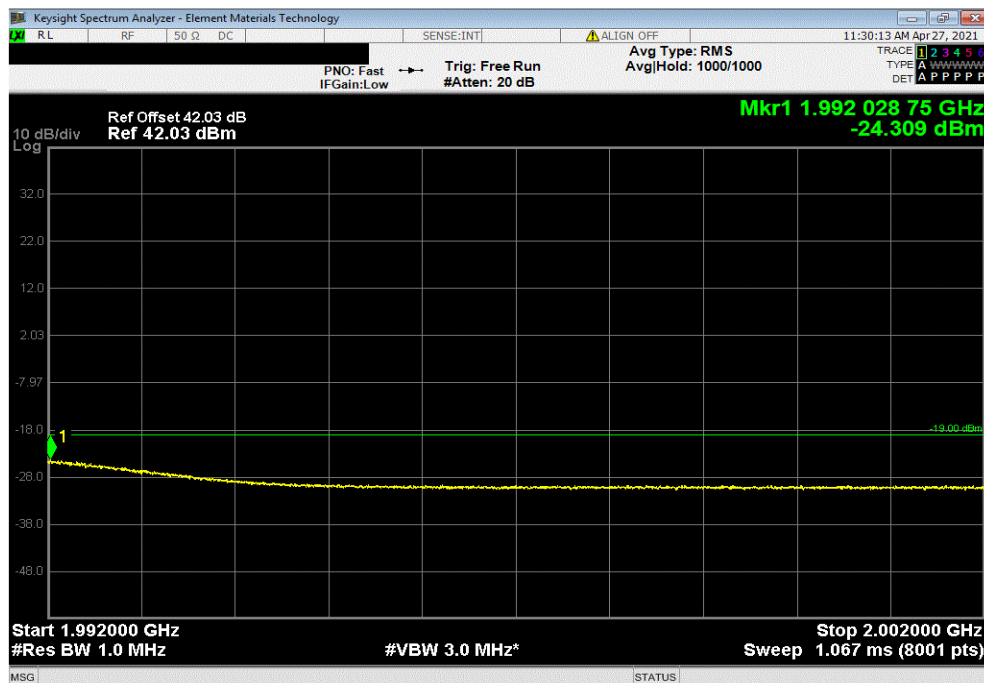


TbTx 2019.08.30.0 XMR 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, High Channel, 1982.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.95	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, High Channel, 1982.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-24.31	-19	Pass			

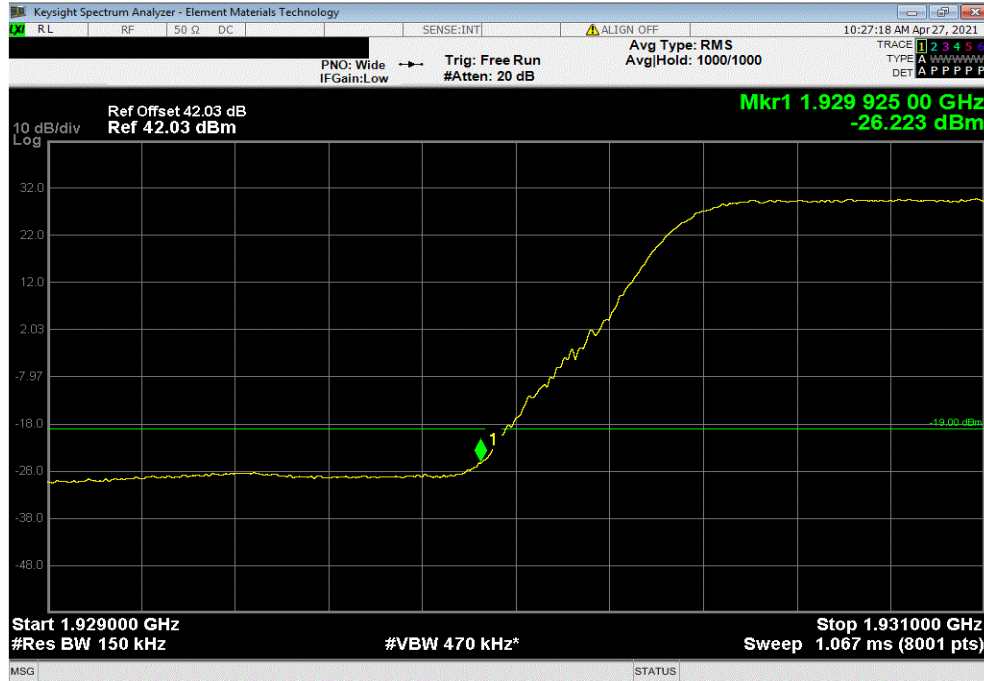


BAND EDGE COMPLIANCE

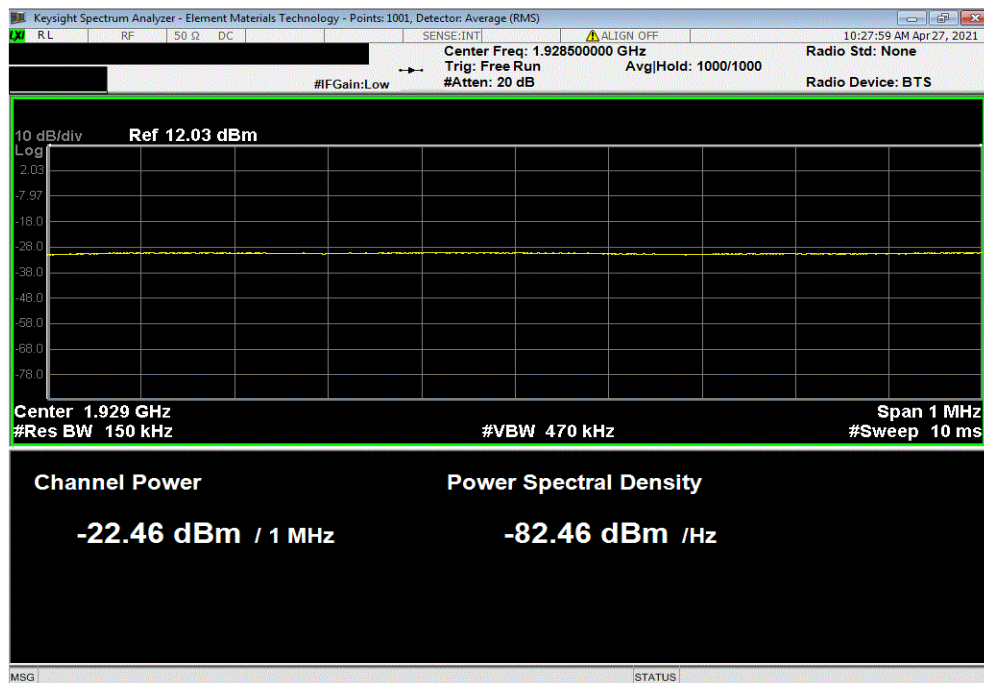


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-26.22		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
2		-22.46		-19		Pass

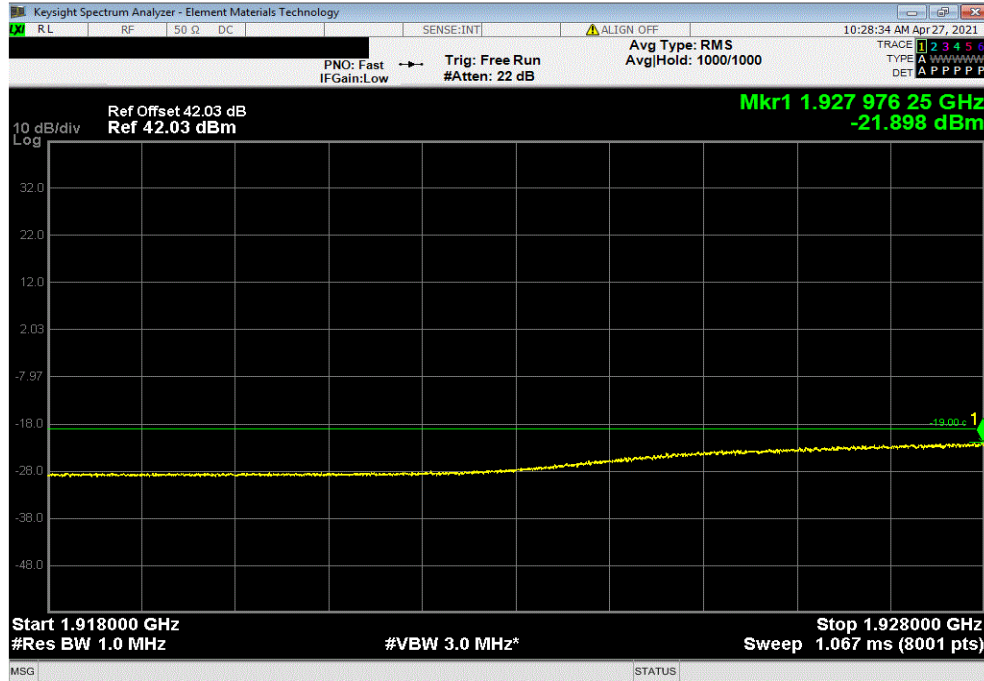


BAND EDGE COMPLIANCE

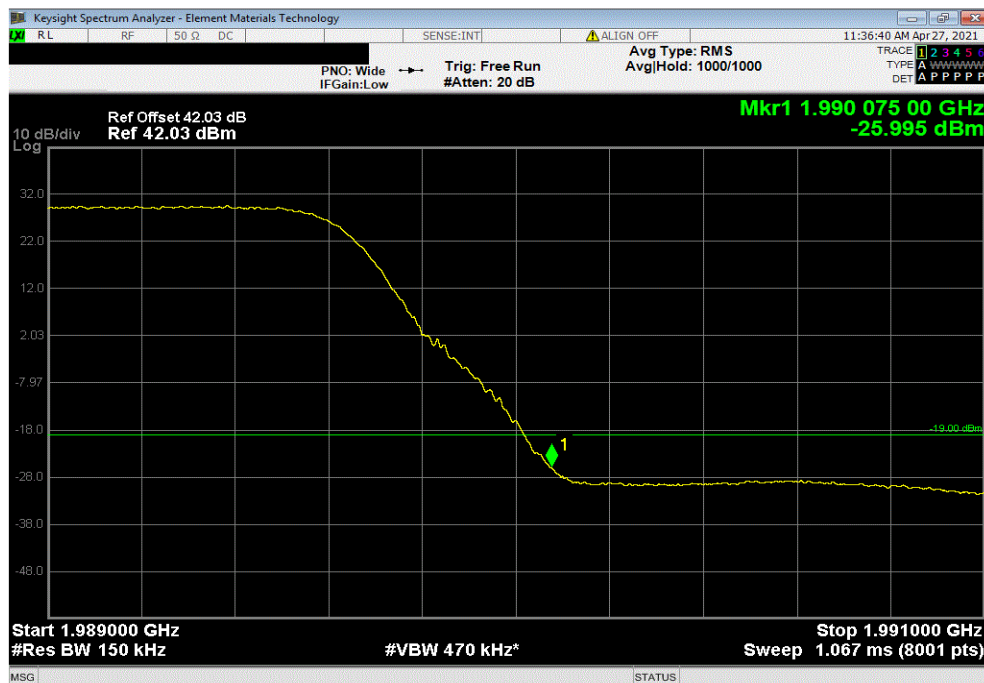


TbTtX 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1937.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
3		-21.9		-19	Pass	



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 1982.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
1		-26		-19	Pass	

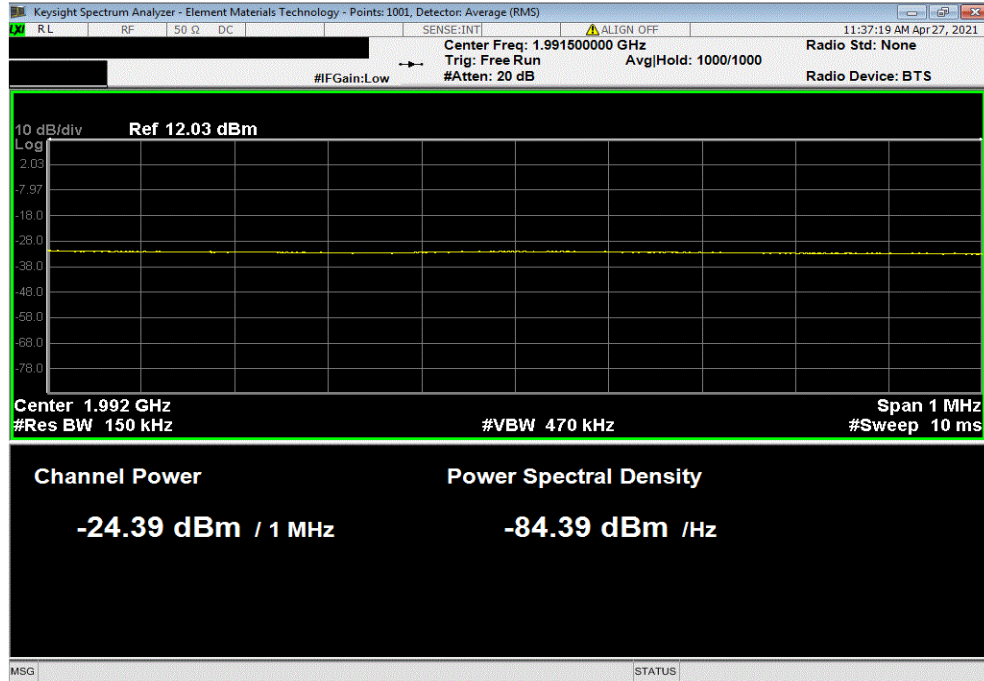


BAND EDGE COMPLIANCE

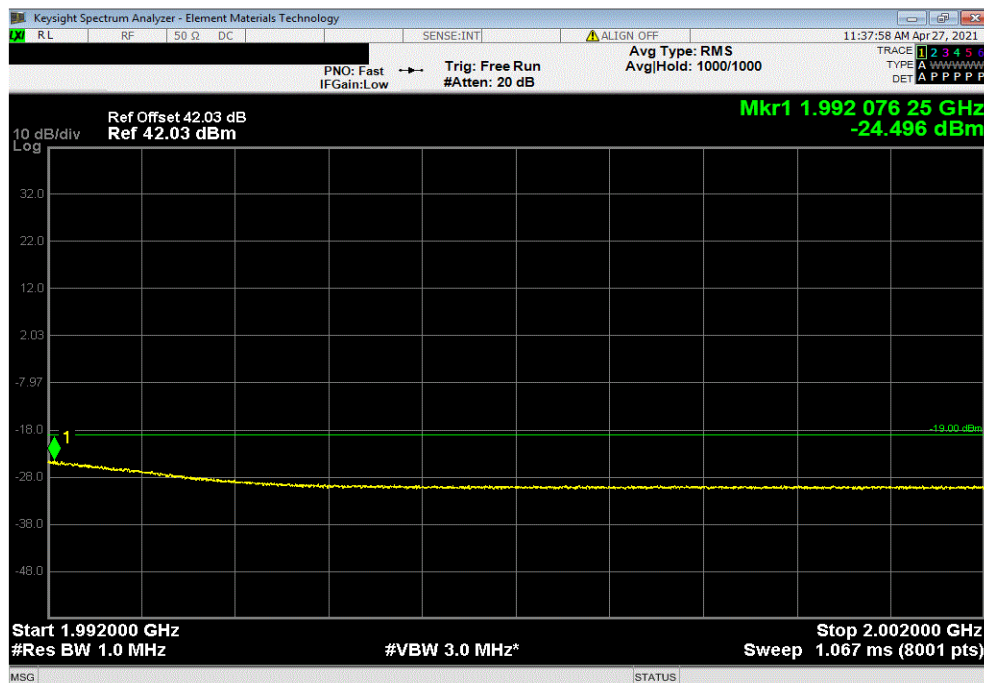


TM1Tx 2019.08.30.0 XM1 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 1982.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-24.39	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 1982.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-24.5	-19	Pass			

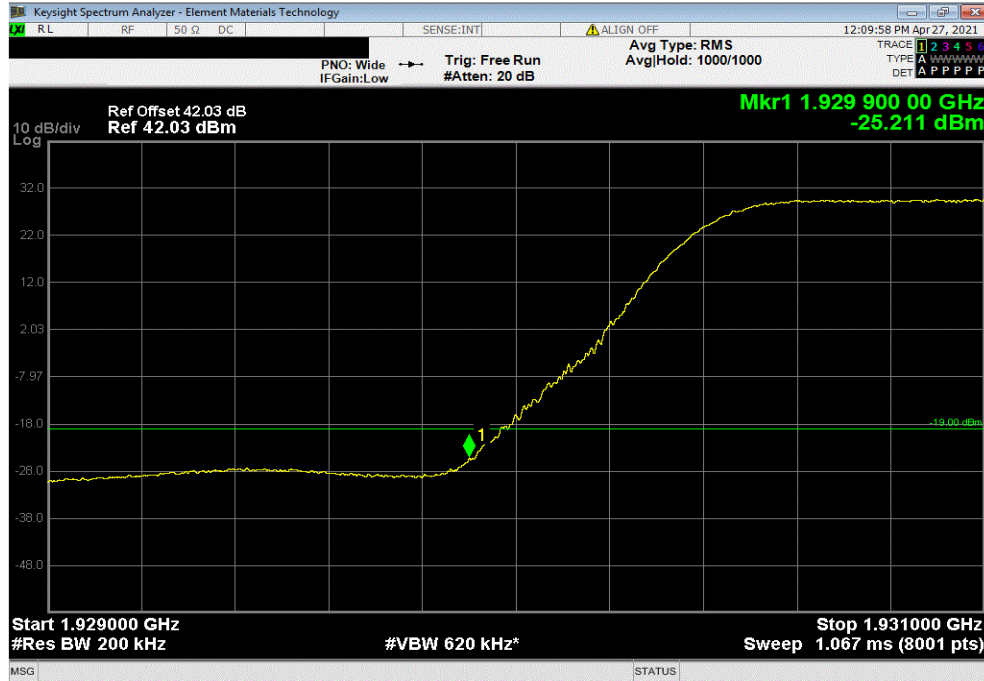


BAND EDGE COMPLIANCE

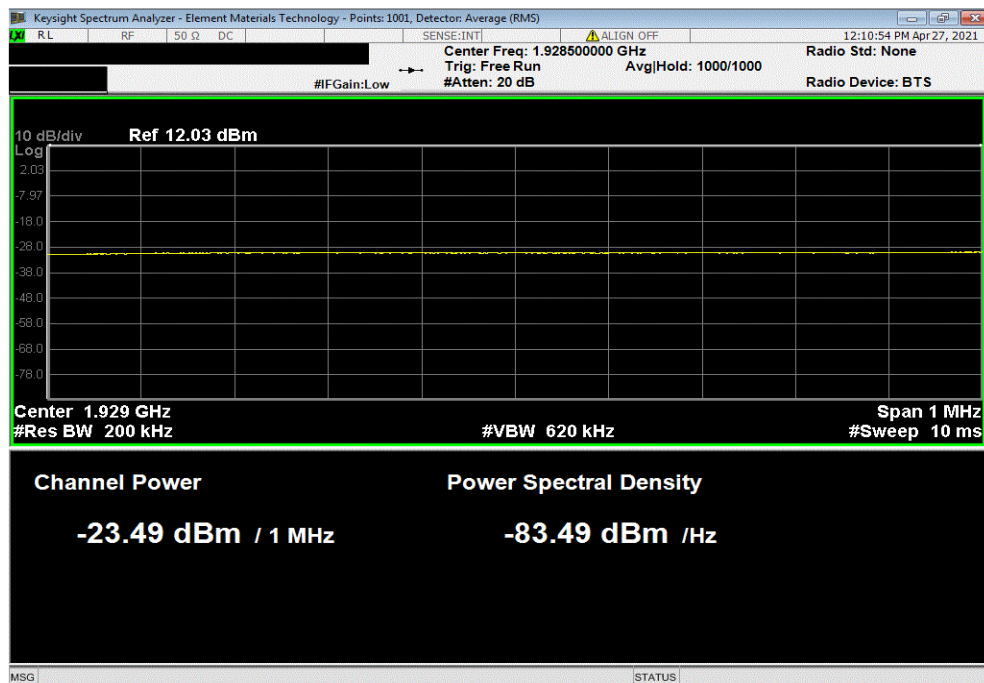


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, QPSK Modulation, Low Channel, 1940 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-25.21	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, QPSK Modulation, Low Channel, 1940 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.49	-19	Pass			

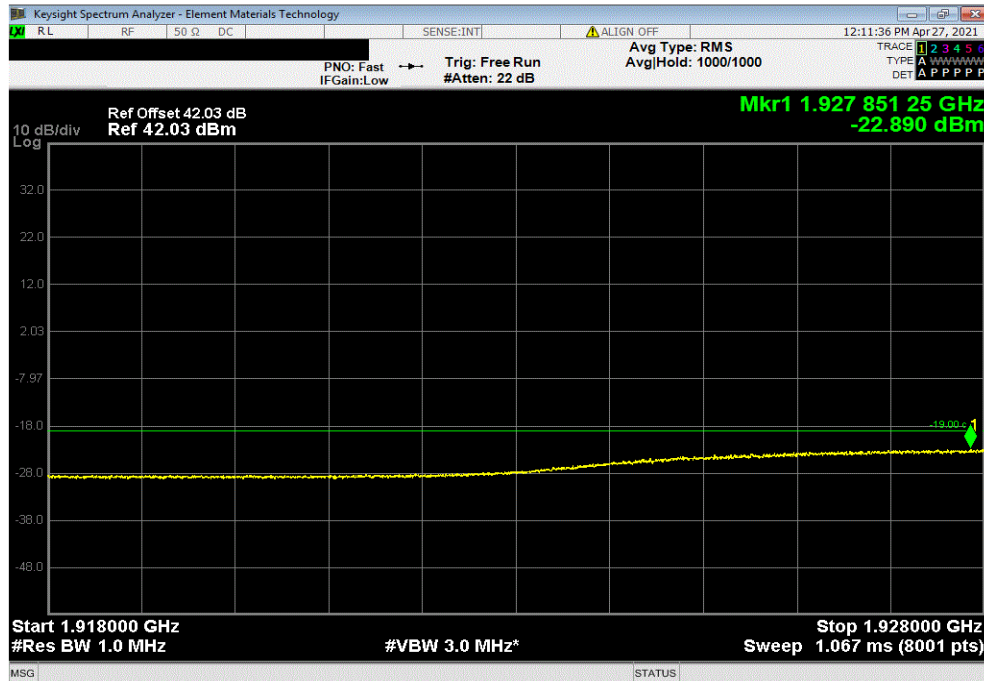


BAND EDGE COMPLIANCE

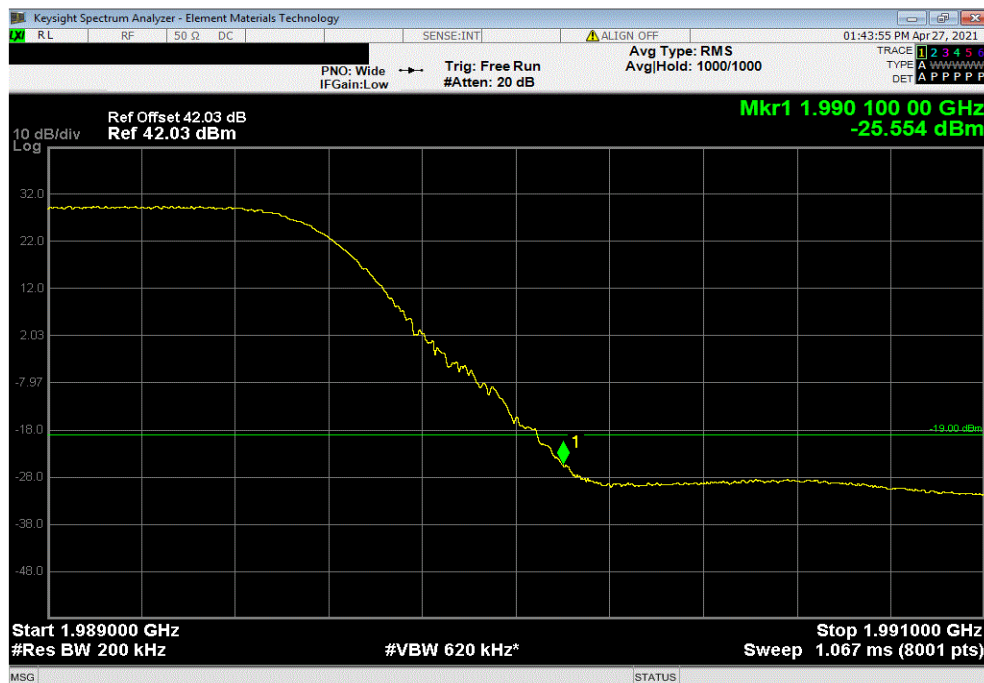


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, QPSK Modulation , Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
3		-22.89		-19	Pass	



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, QPSK Modulation , High Channel, 1980 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
1		-25.55		-19	Pass	

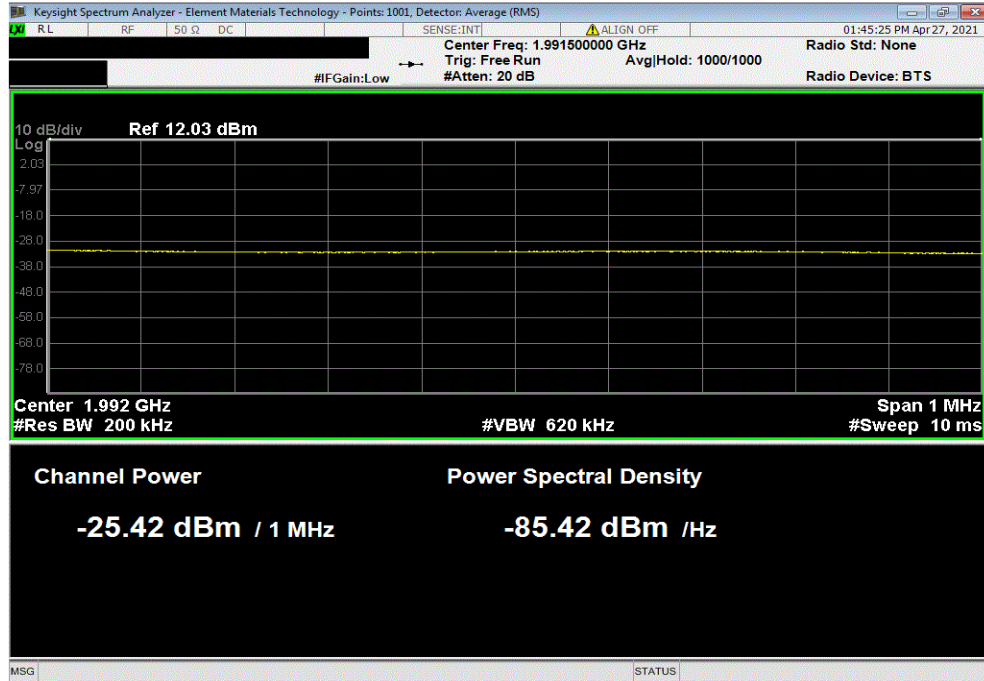


BAND EDGE COMPLIANCE

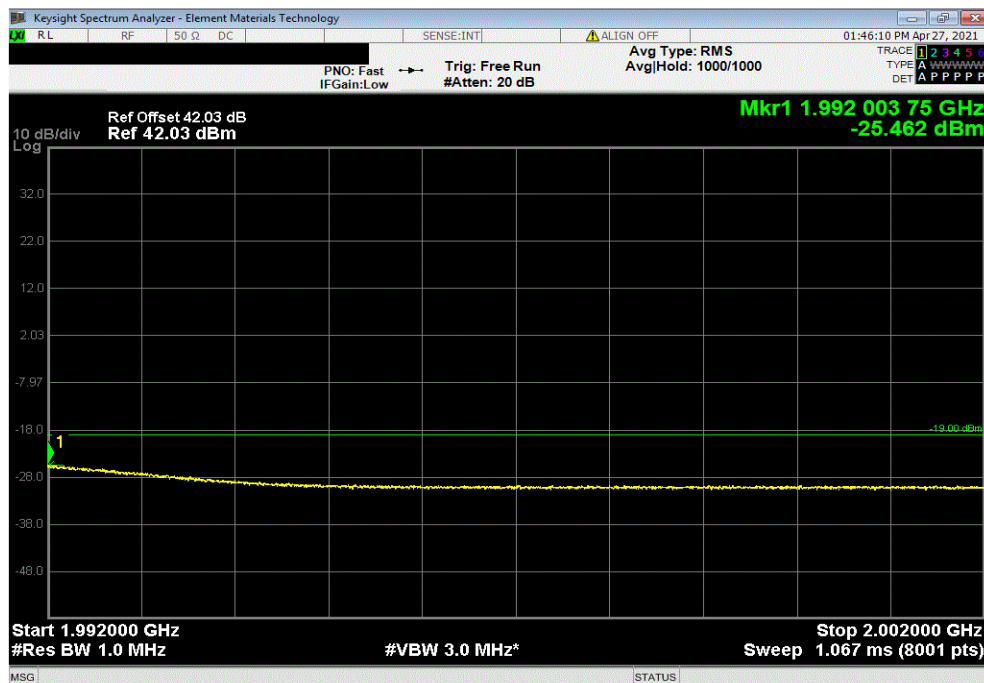


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, QPSK Modulation, High Channel, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.42	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, QPSK Modulation, High Channel, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-25.46	-19	Pass			

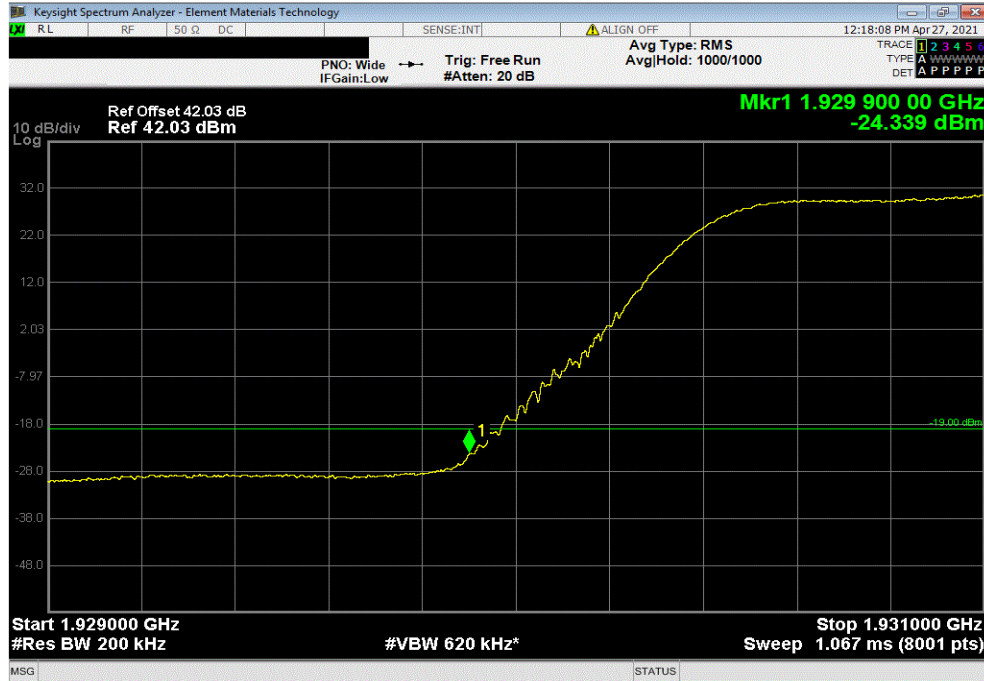


BAND EDGE COMPLIANCE

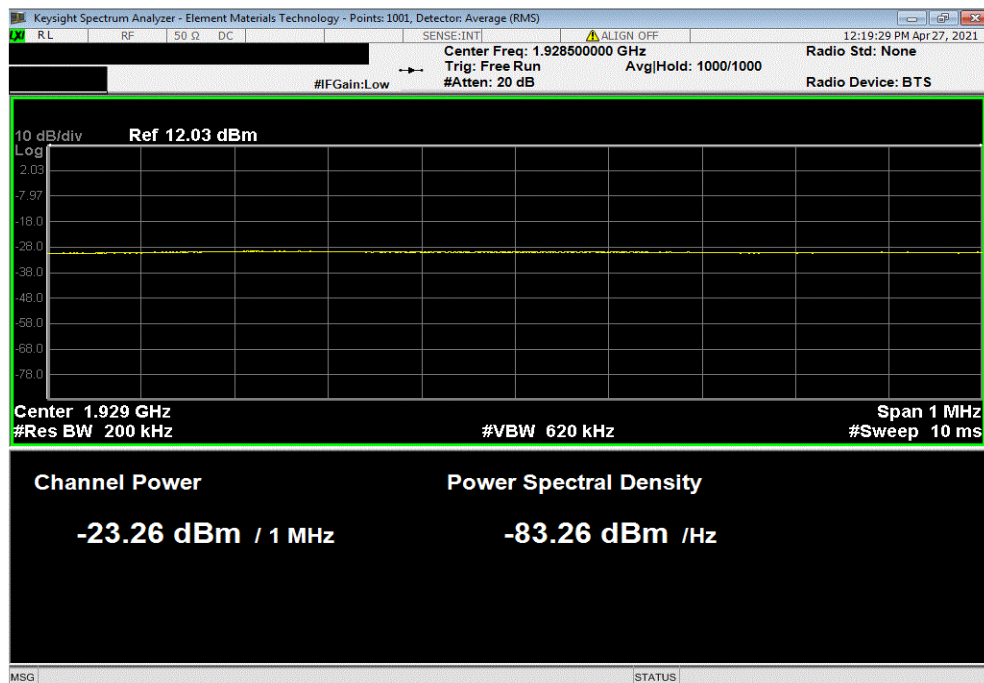


TbTx 2019.08.30.0 XMtX 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
1		-24.34		-19	Pass	



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
2		-23.26		-19	Pass	

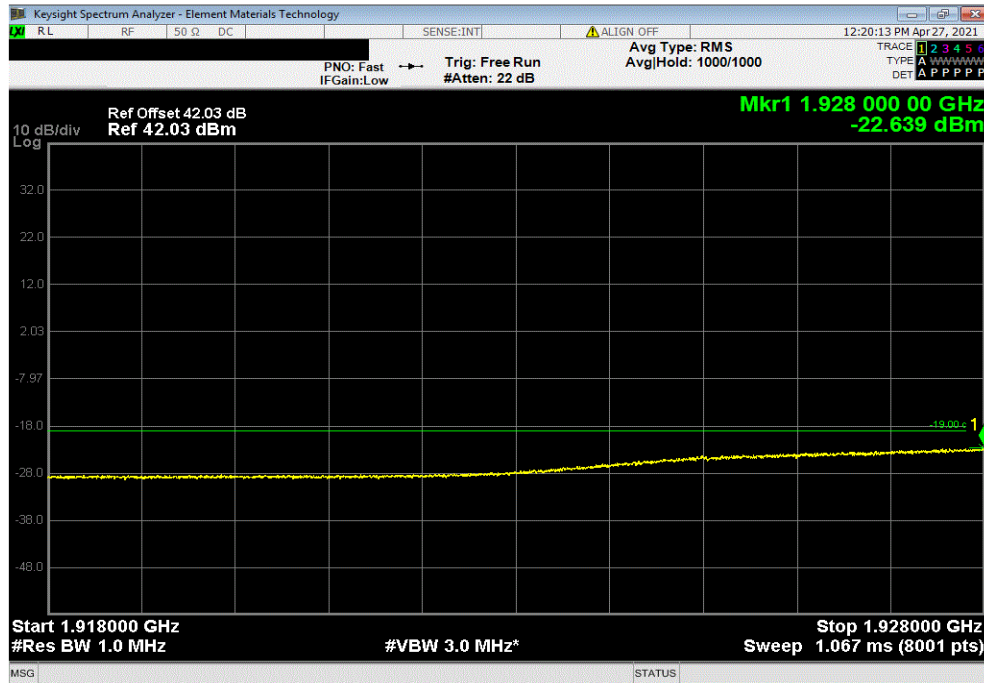


BAND EDGE COMPLIANCE

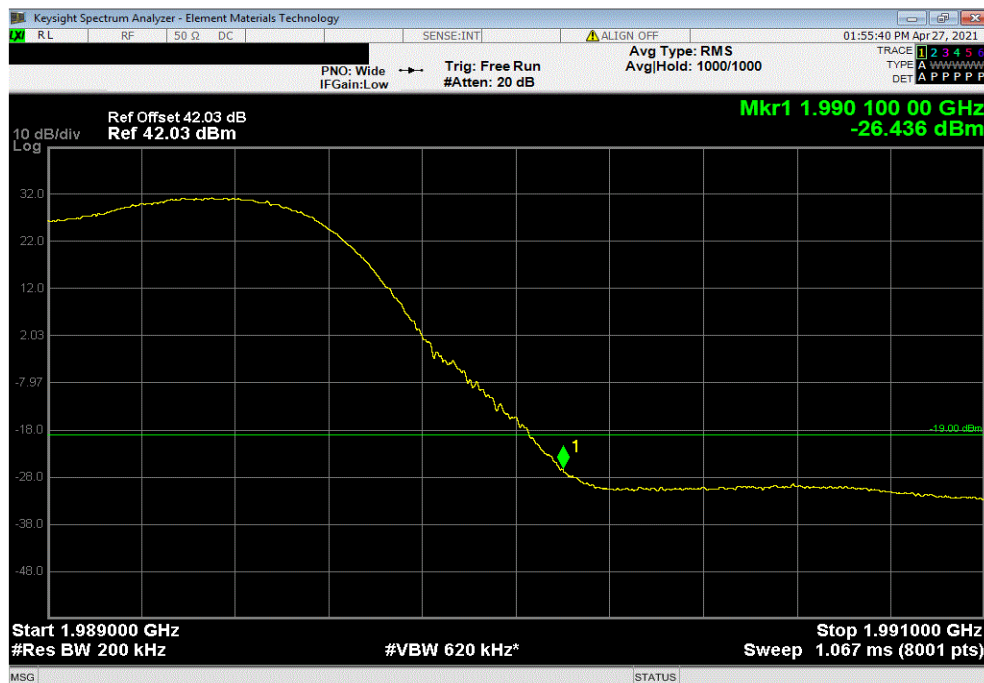


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
3		-22.64		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, High Channel, 1980 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-26.44		-19		Pass

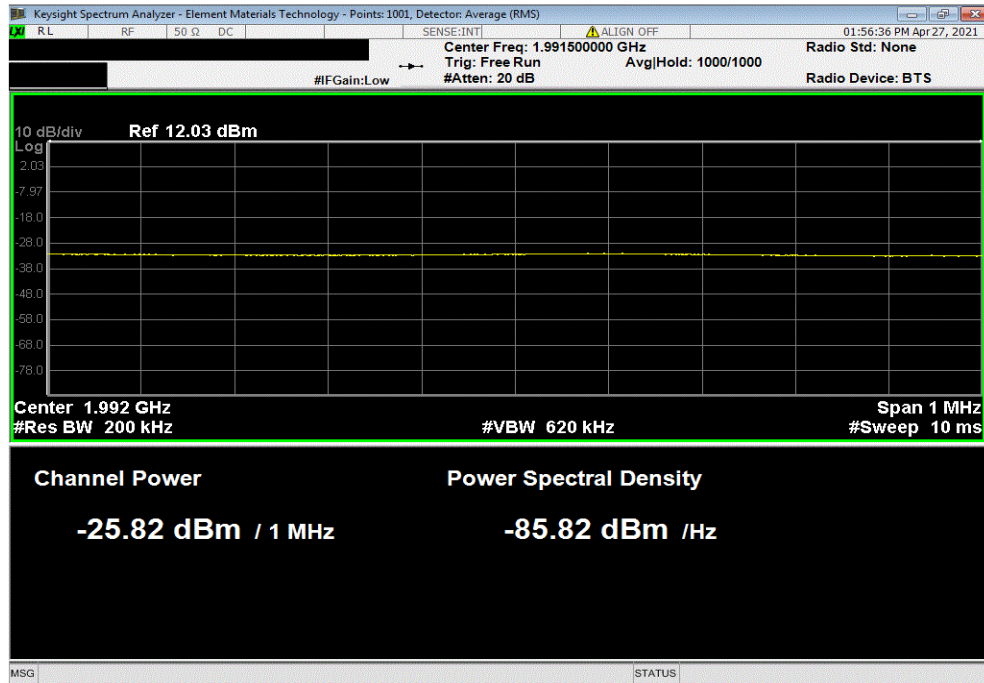


BAND EDGE COMPLIANCE

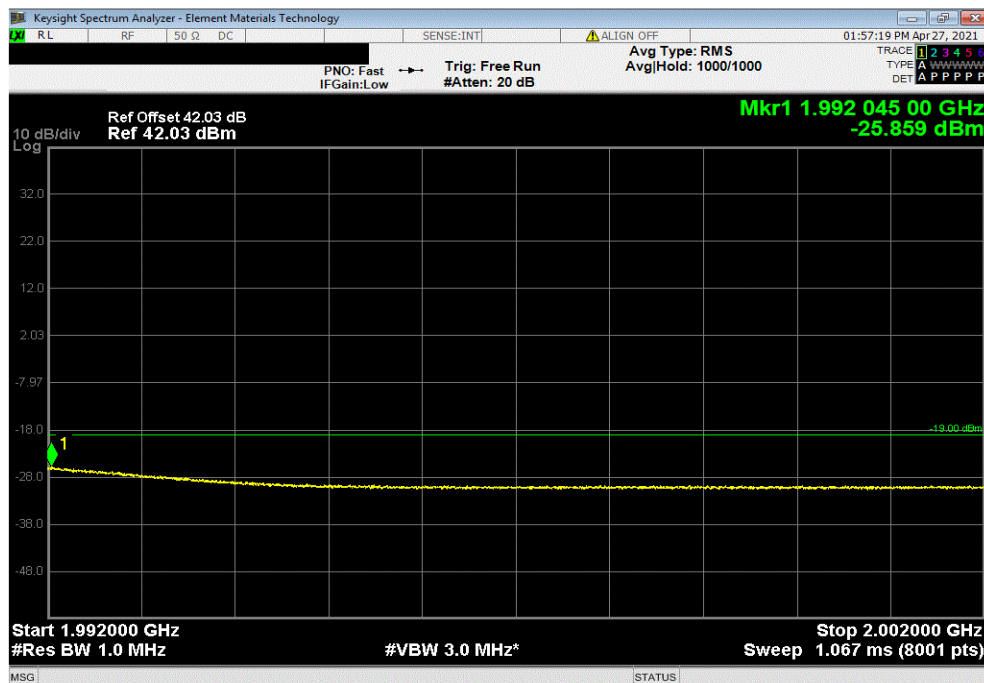


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, High Channel, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.82	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, High Channel, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-25.86	-19	Pass			

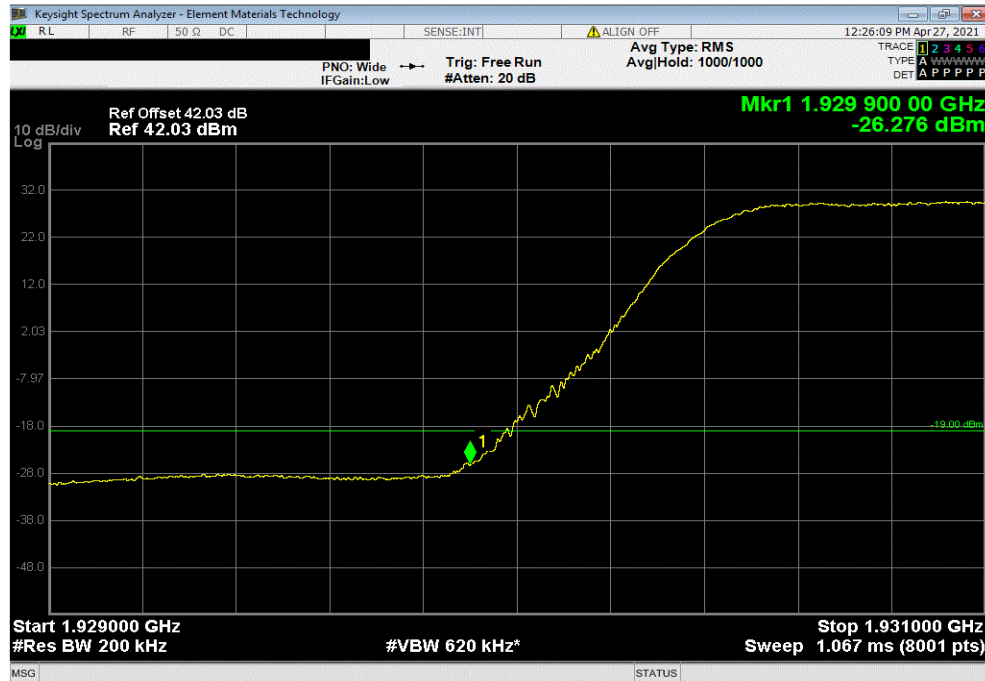


BAND EDGE COMPLIANCE

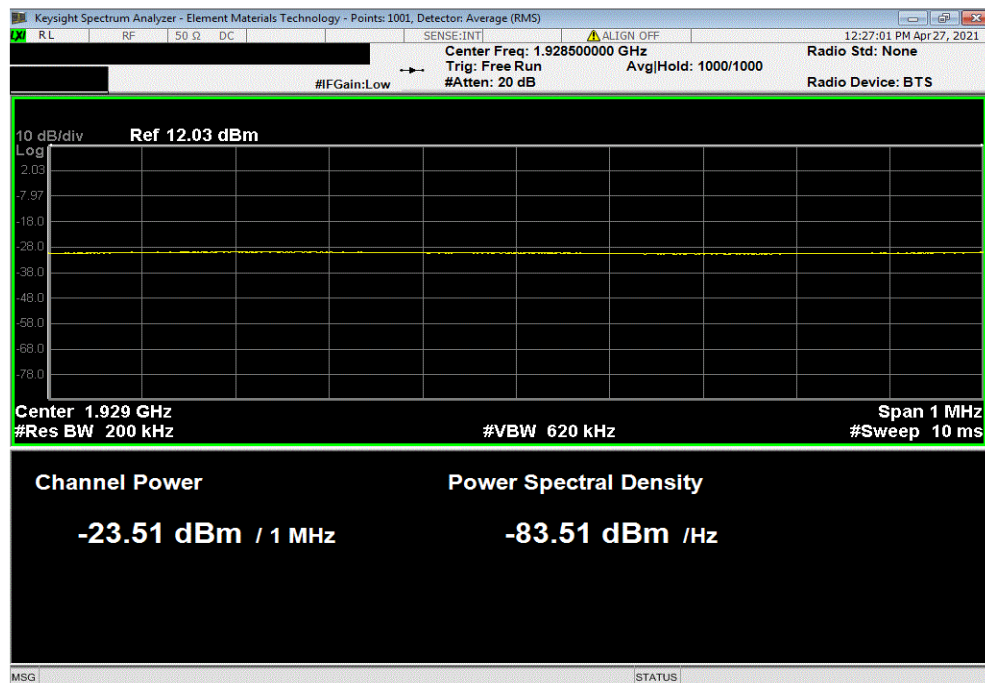


TbTx 2019.08.30.0 XMtX 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
1		-26.28		-19		Pass



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)		Result
2		-23.51		-19		Pass

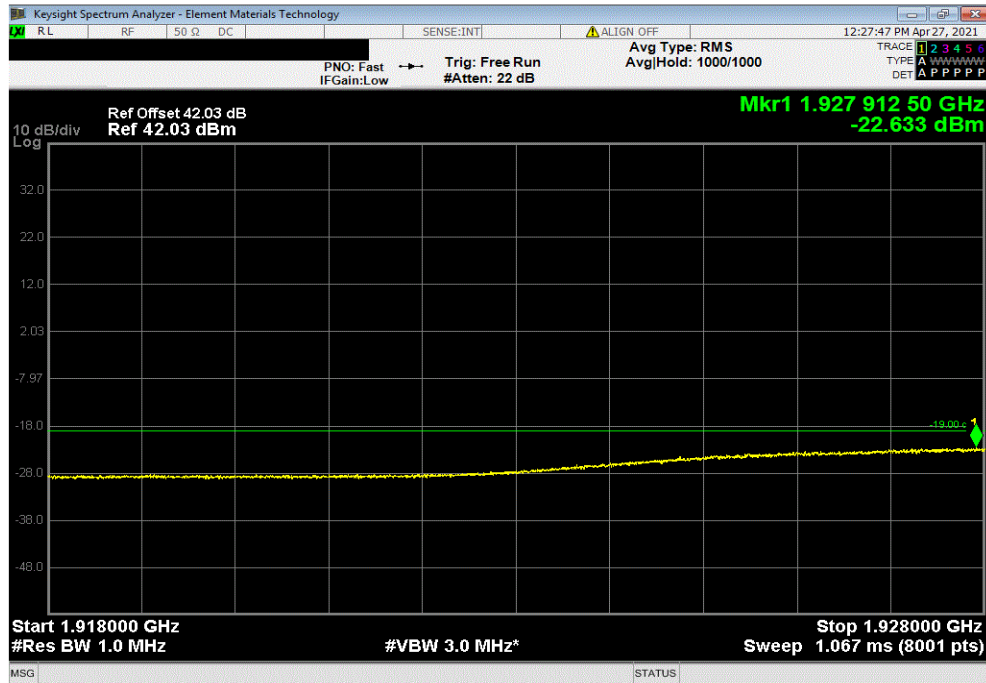


BAND EDGE COMPLIANCE

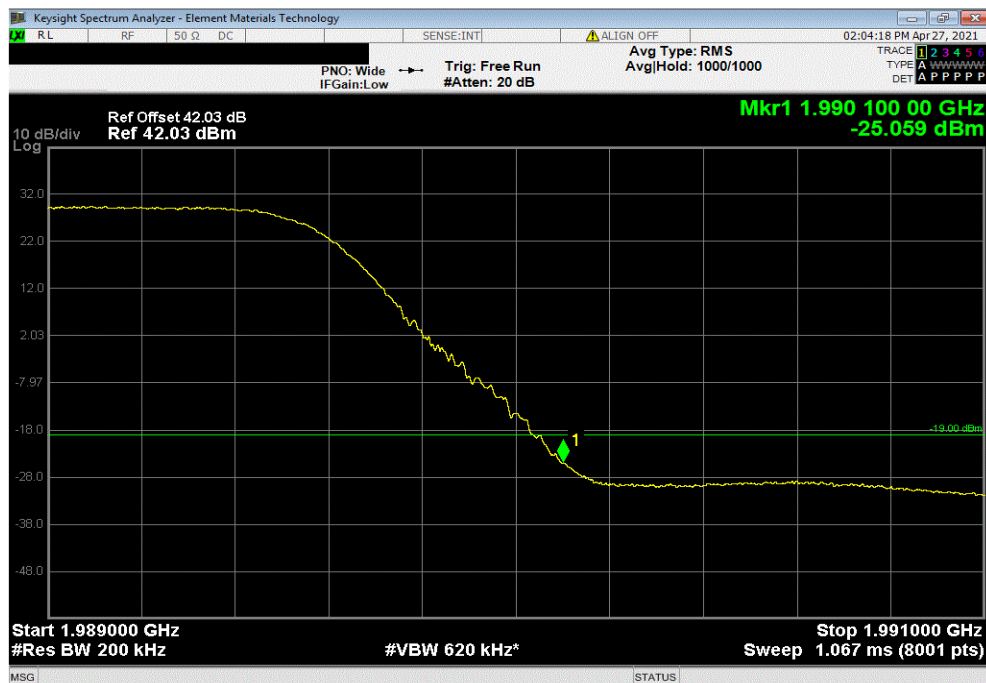


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
3		-22.63		-19	Pass	



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, High Channel, 1980 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
1		-25.06		-19	Pass	

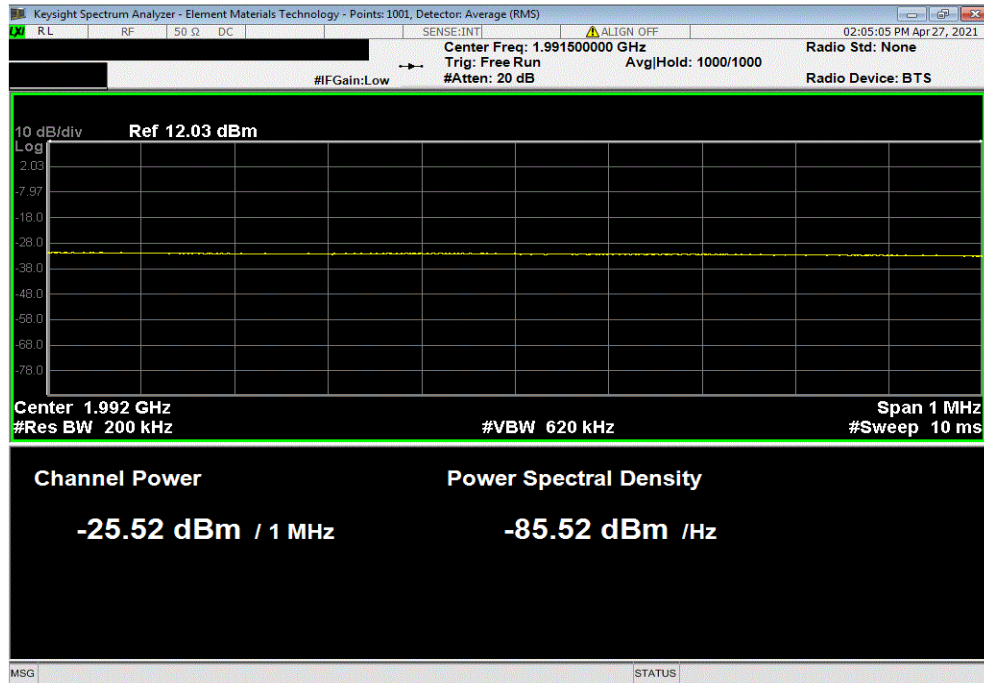


BAND EDGE COMPLIANCE

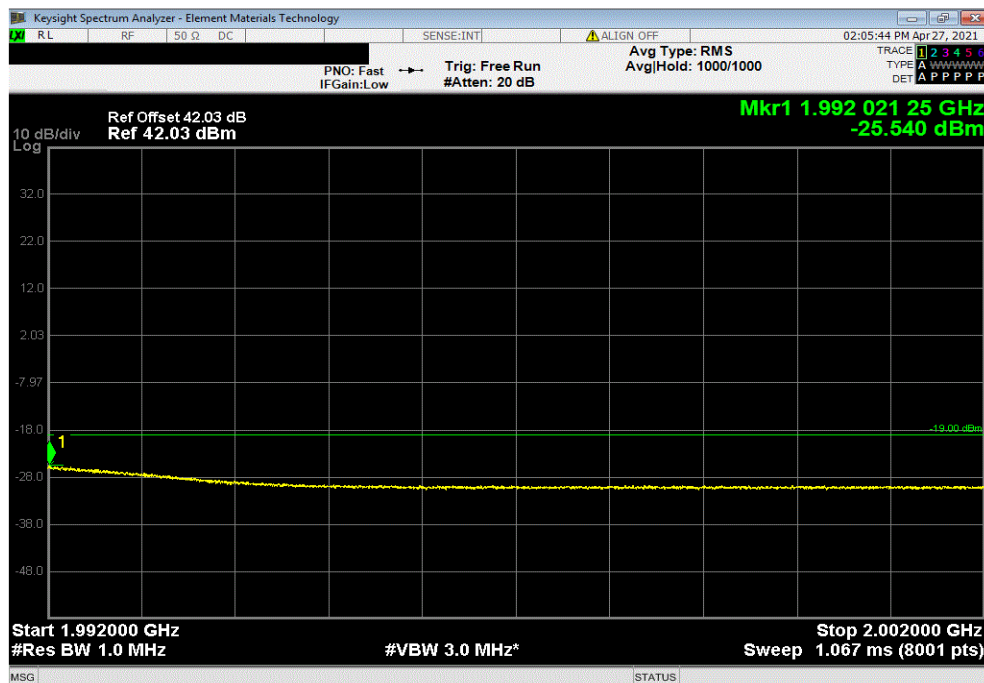


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, High Channel, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.52	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, High Channel, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-25.54	-19	Pass			

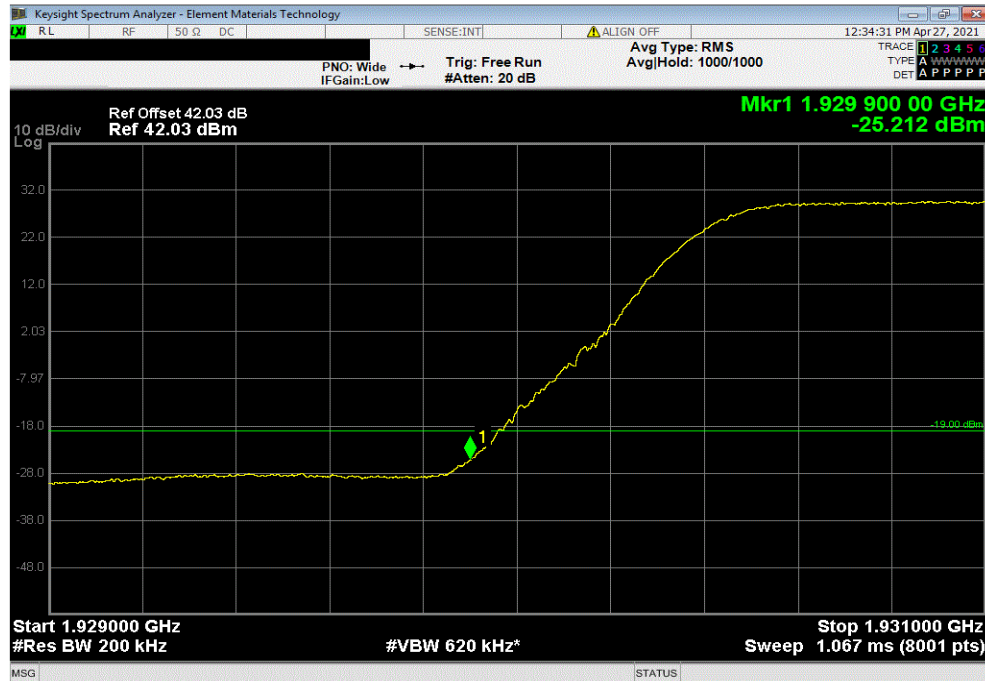


BAND EDGE COMPLIANCE

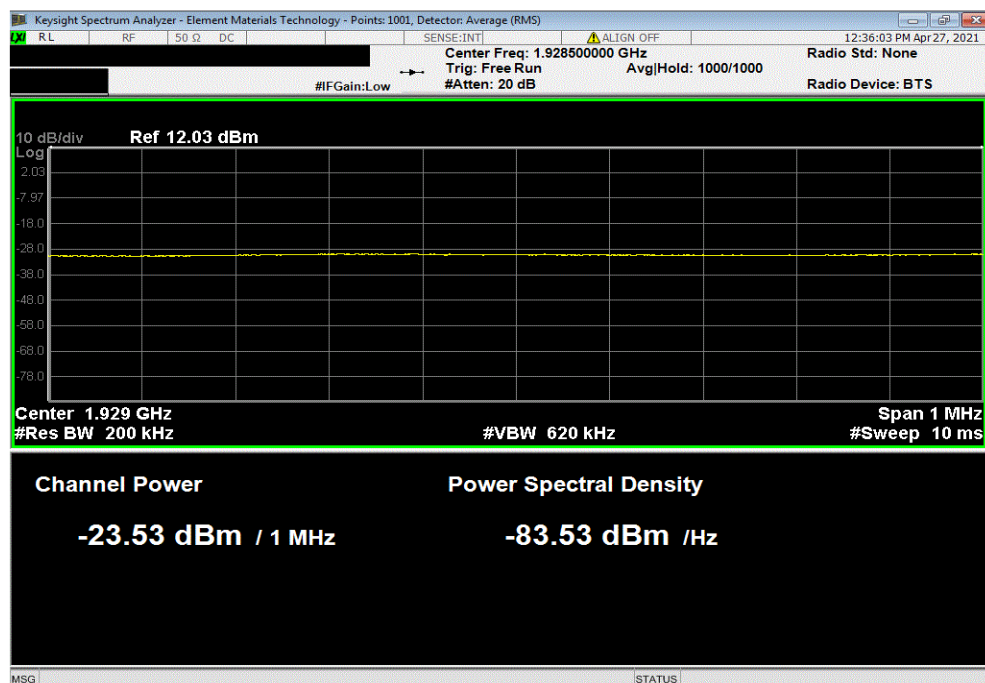


TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-25.21	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.53	-19	Pass			

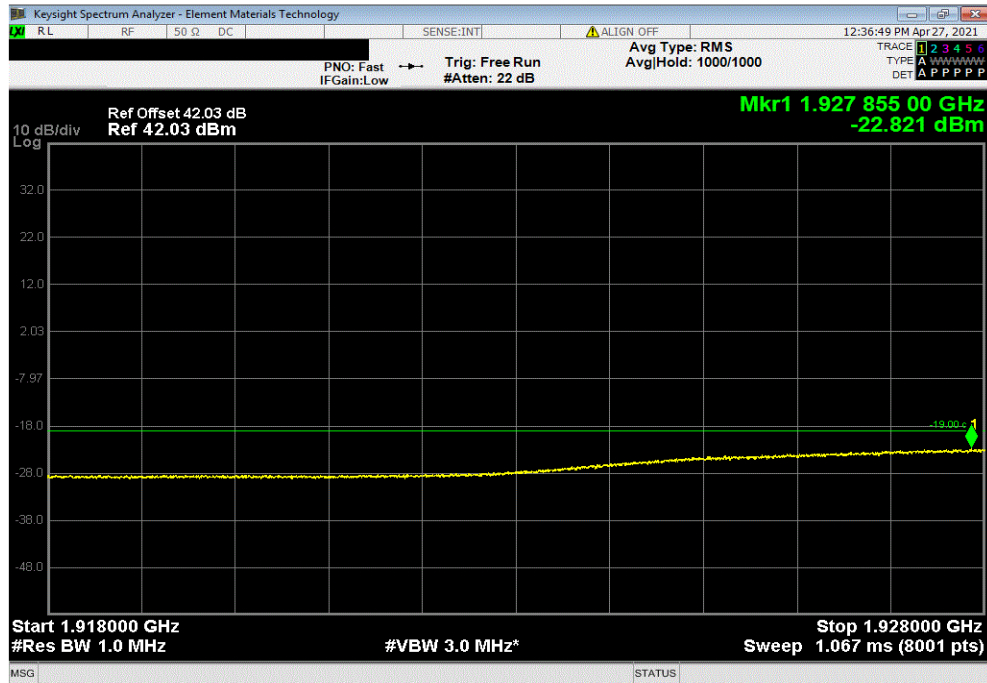


BAND EDGE COMPLIANCE

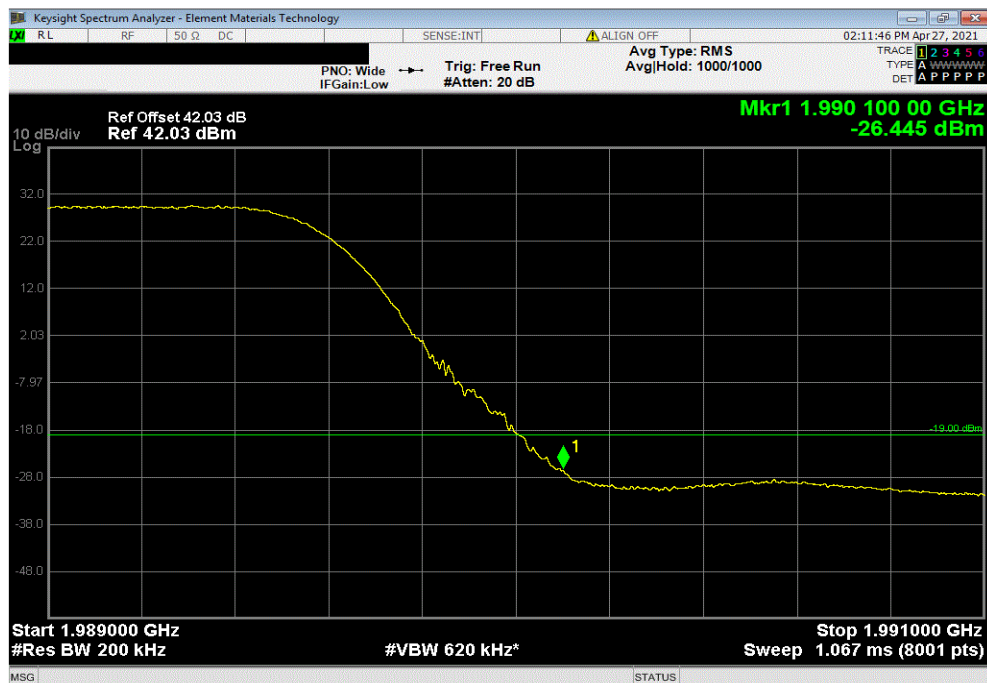


TbTx 2019.08.30.0 XMt 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1940 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
3		-22.82		-19	Pass	



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 1980 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
1		-26.45		-19	Pass	

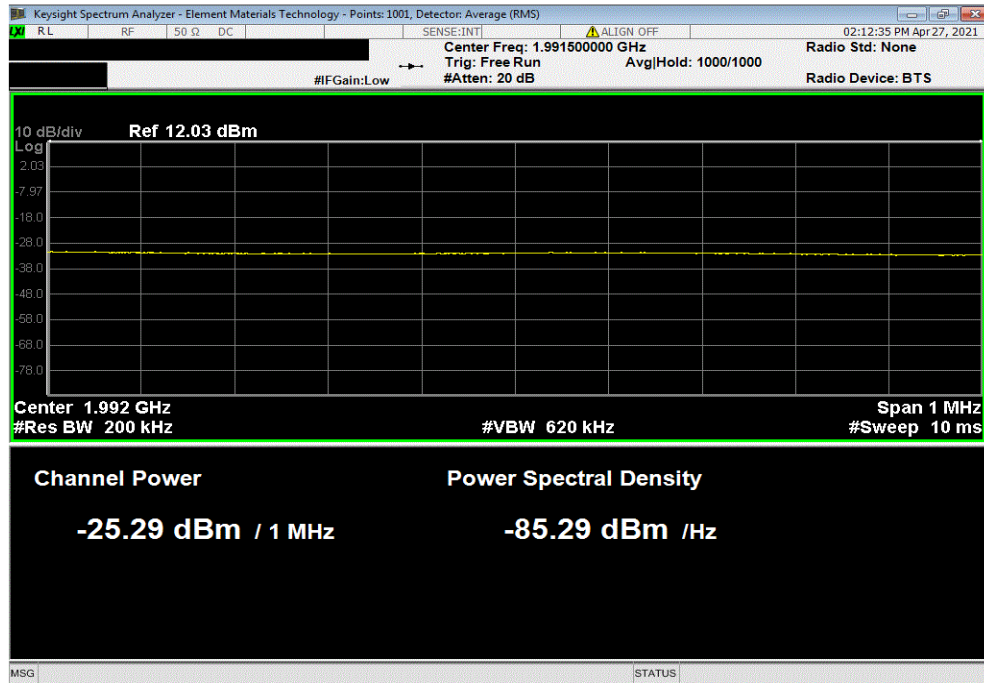


BAND EDGE COMPLIANCE



TbTx 2019.08.30.0 XbTx 2020.12.30.0

Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.29	-19	Pass			



Band n2, 1930 MHz - 1990 MHz, 5G NR, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-25.22	-19	Pass			

