

BAND EDGE BAND 66a



XMIT 2020.03.25.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-21

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

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 section 27.53(h)(1) and RSS-139 6.6, 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 27.53(h)(3) and RSS-139 6.6, 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.

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EUT: AHFIC		Work Order: NOKI0007
Serial Number: K9180317594		Date: 6-Apr-20
Customer: Nokia Solutions and Networks		Temperature: 22.5 °C
Attendees: Mitch Hill, John Rattanaovong		Humidity: 48.3% RH
Project: None		Barometric Pres.: 1014 mbar
Tested by: Brandon Hobbs	Power: 54 VDC	Job Site: TX03
TEST SPECIFICATIONS		
FCC 27:2020		Test Method
RSS-139:2015		ANSI C63.26:2015
COMMENTS		RSS-139:2015
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The hottest port was used for testing. The worst case port was determined in the original client test report. The carrier power was set to maximum for all testing.		
DEVIATIONS FROM TEST STANDARD		
None		
Configuration #	2	Signature
		Value (dBm) Limit (dBm) Result
5G Band 66a, 2110 MHz - 2180 MHz, Port 3		
5 MHz Bandwidth		
QPSK Modulation		
Low Channel 2112.5 MHz		
Frequency Range 1		-20.0 -19 Pass
Frequency Range 2		-21.8 -19 Pass
Frequency Range 3		-20.7 -19 Pass
High Channel 2177.5 MHz		
Frequency Range 1		-19.7 -19 Pass
Frequency Range 2		-21.2 -19 Pass
Frequency Range 3		-21.1 -19 Pass
16-QAM Modulation		
Low Channel 2112.5 MHz		
Frequency Range 1		-21.9 -19 Pass
Frequency Range 2		-21.5 -19 Pass
Frequency Range 3		-20.0 -19 Pass
High Channel 2177.5 MHz		
Frequency Range 1		-19.6 -19 Pass
Frequency Range 2		-21.1 -19 Pass
Frequency Range 3		-21.0 -19 Pass
64-QAM Modulation		
Low Channel 2112.5 MHz		
Frequency Range 1		-20.1 -19 Pass
Frequency Range 2		-22.0 -19 Pass
Frequency Range 3		-20.6 -19 Pass
High Channel 2177.5 MHz		
Frequency Range 1		-20.6 -19 Pass
Frequency Range 2		-22.1 -19 Pass
Frequency Range 3		-21.9 -19 Pass
256-QAM Modulation		
Low Channel 2112.5 MHz		
Frequency Range 1		-20.7 -19 Pass
Frequency Range 2		-22.0 -19 Pass
Frequency Range 3		-20.9 -19 Pass
High Channel 2177.5 MHz		
Frequency Range 1		-20.5 -19 Pass
Frequency Range 2		-22.1 -19 Pass
Frequency Range 3		-22.1 -19 Pass
10 MHz Bandwidth		
QPSK Modulation		
Low Channel 2115 MHz		
Frequency Range 1		-23.8 -19 Pass
Frequency Range 2		-24.0 -19 Pass
Frequency Range 3		-23.9 -19 Pass
High Channel 2175 MHz		
Frequency Range 1		-24.4 -19 Pass
Frequency Range 2		-23.4 -19 Pass
Frequency Range 3		-23.3 -19 Pass
16-QAM Modulation		
Low Channel 2115 MHz		
Frequency Range 1		-25.3 -19 Pass
Frequency Range 2		-24.6 -19 Pass
Frequency Range 3		-24.0 -19 Pass
High Channel 2175 MHz		
Frequency Range 1		-25.2 -19 Pass
Frequency Range 2		-23.9 -19 Pass
Frequency Range 3		-23.6 -19 Pass
64-QAM Modulation		
Low Channel 2115 MHz		
Frequency Range 1		-24.1 -19 Pass
Frequency Range 2		-24.3 -19 Pass
Frequency Range 3		-23.9 -19 Pass
High Channel 2175 MHz		
Frequency Range 1		-24.7 -19 Pass
Frequency Range 2		-23.6 -19 Pass
Frequency Range 3		-23.8 -19 Pass
256-QAM Modulation		
Low Channel 2115 MHz		
Frequency Range 1		-23.3 -19 Pass
Frequency Range 2		-24.5 -19 Pass
Frequency Range 3		-23.3 -19 Pass
High Channel 2175 MHz		
Frequency Range 1		-24.3 -19 Pass
Frequency Range 2		-23.9 -19 Pass
Frequency Range 3		-23.5 -19 Pass
15 MHz Bandwidth		

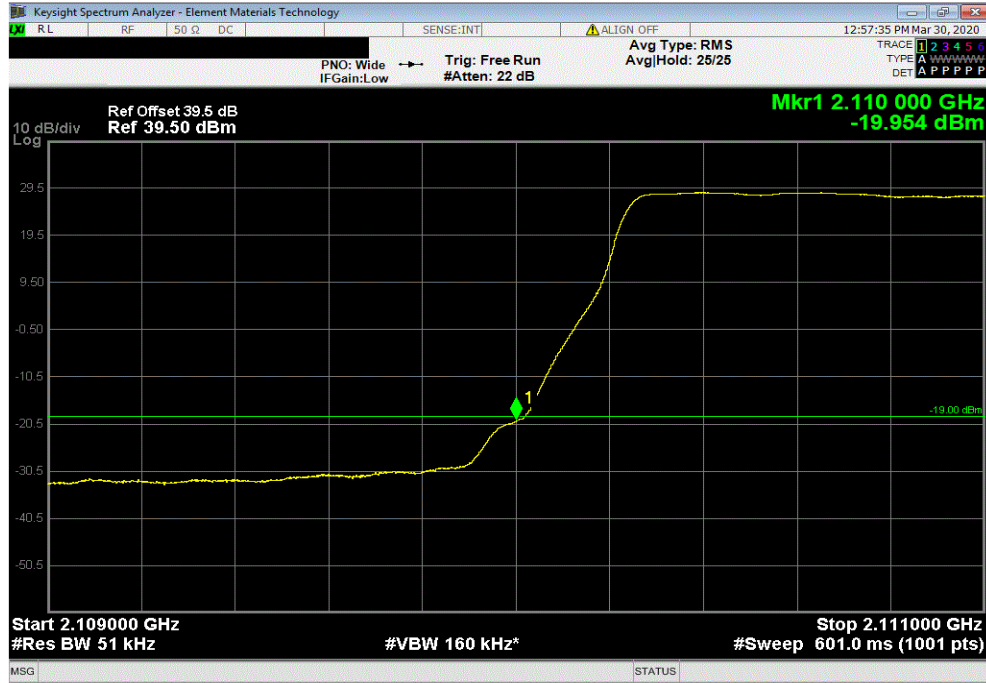
QPSK Modulation				
Low Channel 2117.5 MHz				
Frequency Range 1	-24.1	-19	Pass	
Frequency Range 2	-25.6	-19	Pass	
Frequency Range 3	-24.9	-19	Pass	
High Channel 2172.5 MHz				
Frequency Range 1	-25.0	-19	Pass	
Frequency Range 2	-24.5	-19	Pass	
Frequency Range 3	-24.3	-19	Pass	
16-QAM Modulation				
Low Channel 2117.5 MHz				
Frequency Range 1	-25.4	-19	Pass	
Frequency Range 2	-26.4	-19	Pass	
Frequency Range 3	-25.5	-19	Pass	
High Channel 2172.5 MHz				
Frequency Range 1	-23.9	-19	Pass	
Frequency Range 2	-24.9	-19	Pass	
Frequency Range 3	-24.6	-19	Pass	
64-QAM Modulation				
Low Channel 2117.5 MHz				
Frequency Range 1	-23.9	-19	Pass	
Frequency Range 2	-26.1	-19	Pass	
Frequency Range 3	-25.3	-19	Pass	
High Channel 2172.5 MHz				
Frequency Range 1	-24.4	-19	Pass	
Frequency Range 2	-24.9	-19	Pass	
Frequency Range 3	-24.4	-19	Pass	
256-QAM Modulation				
Low Channel 2117.5 MHz				
Frequency Range 1	-24.5	-19	Pass	
Frequency Range 2	-26.2	-19	Pass	
Frequency Range 3	-25.3	-19	Pass	
High Channel 2172.5 MHz				
Frequency Range 1	-24.4	-19	Pass	
Frequency Range 2	-24.7	-19	Pass	
Frequency Range 3	-24.5	-19	Pass	
20 MHz Bandwidth				
QPSK Modulation				
Low Channel 2120 MHz				
Frequency Range 1	-22.1	-19	Pass	
Frequency Range 2	-26.1	-19	Pass	
Frequency Range 3	-25.0	-19	Pass	
High Channel 2170 MHz				
Frequency Range 1	-21.8	-19	Pass	
Frequency Range 2	-24.0	-19	Pass	
Frequency Range 3	-23.6	-19	Pass	
16-QAM Modulation				
Low Channel 2120 MHz				
Frequency Range 1	-22.6	-19	Pass	
Frequency Range 2	-25.6	-19	Pass	
Frequency Range 3	-25.1	-19	Pass	
High Channel 2170 MHz				
Frequency Range 1	-21.9	-19	Pass	
Frequency Range 2	-24.2	-19	Pass	
Frequency Range 3	-23.6	-19	Pass	
64-QAM Modulation				
Low Channel 2120 MHz				
Frequency Range 1	-22.1	-19	Pass	
Frequency Range 2	-26.1	-19	Pass	
Frequency Range 3	-24.9	-19	Pass	
High Channel 2170 MHz				
Frequency Range 1	-20.9	-19	Pass	
Frequency Range 2	-23.9	-19	Pass	
Frequency Range 3	-23.8	-19	Pass	
256-QAM Modulation				
Low Channel 2120 MHz				
Frequency Range 1	-22.2	-19	Pass	
Frequency Range 2	-26.3	-19	Pass	
Frequency Range 3	-24.9	-19	Pass	
High Channel 2170 MHz				
Frequency Range 1	-22.0	-19	Pass	
Frequency Range 2	-23.9	-19	Pass	
Frequency Range 3	-23.4	-19	Pass	

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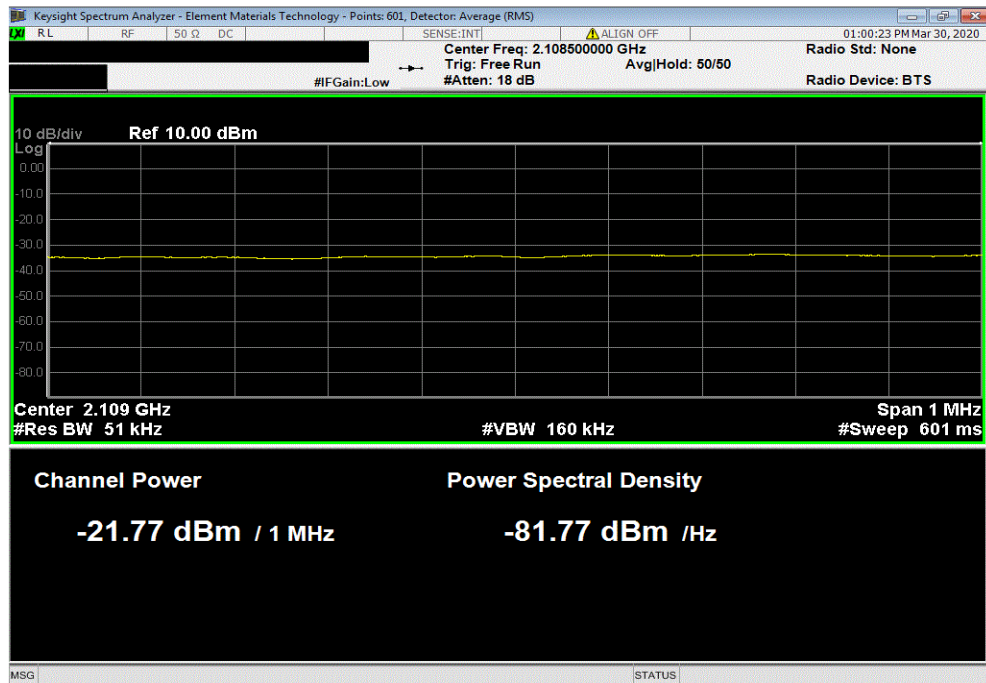


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , QPSK Modulation, Low Channel 2112.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-19.954	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , QPSK Modulation, Low Channel 2112.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-21.77	-19	Pass

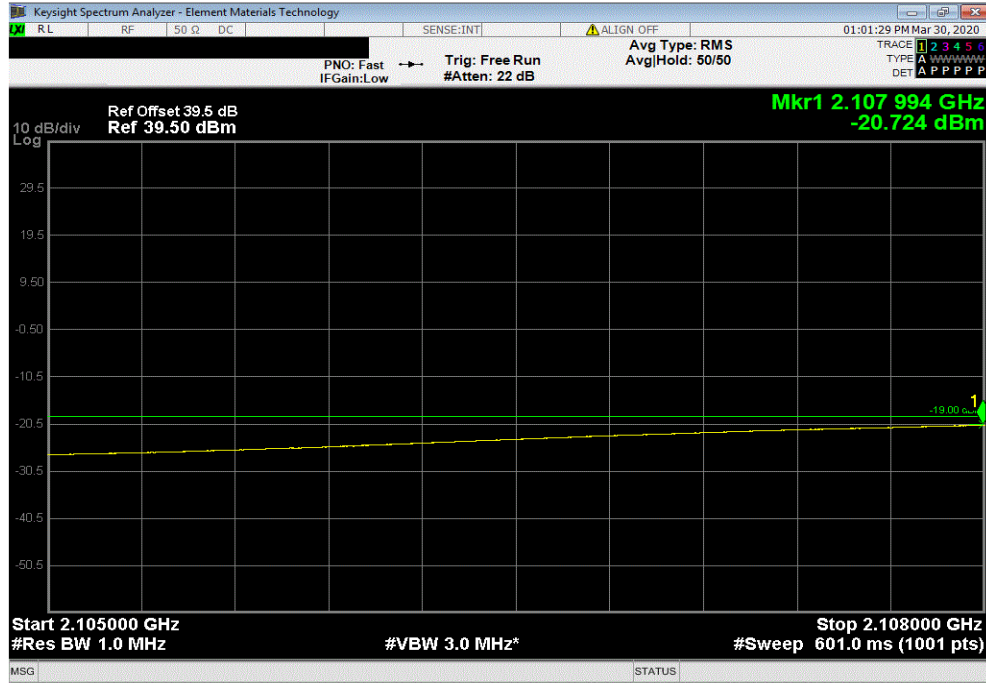


BAND EDGE BAND 66a

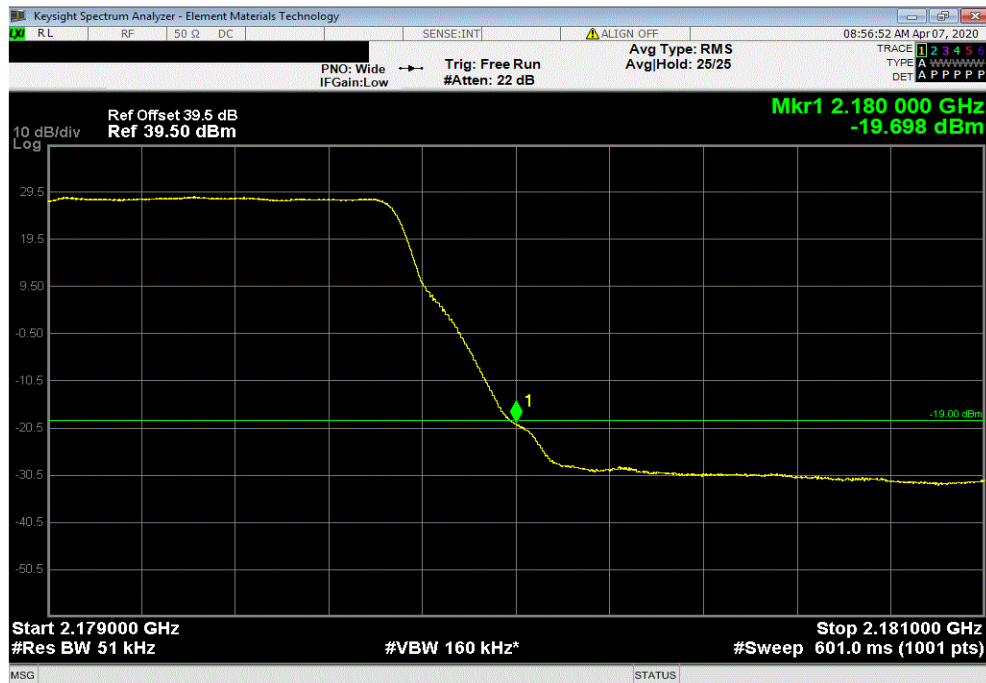


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , QPSK Modulation, Low Channel 2112.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-20.724	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , QPSK Modulation, High Channel 2177.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-19.698	-19	Pass

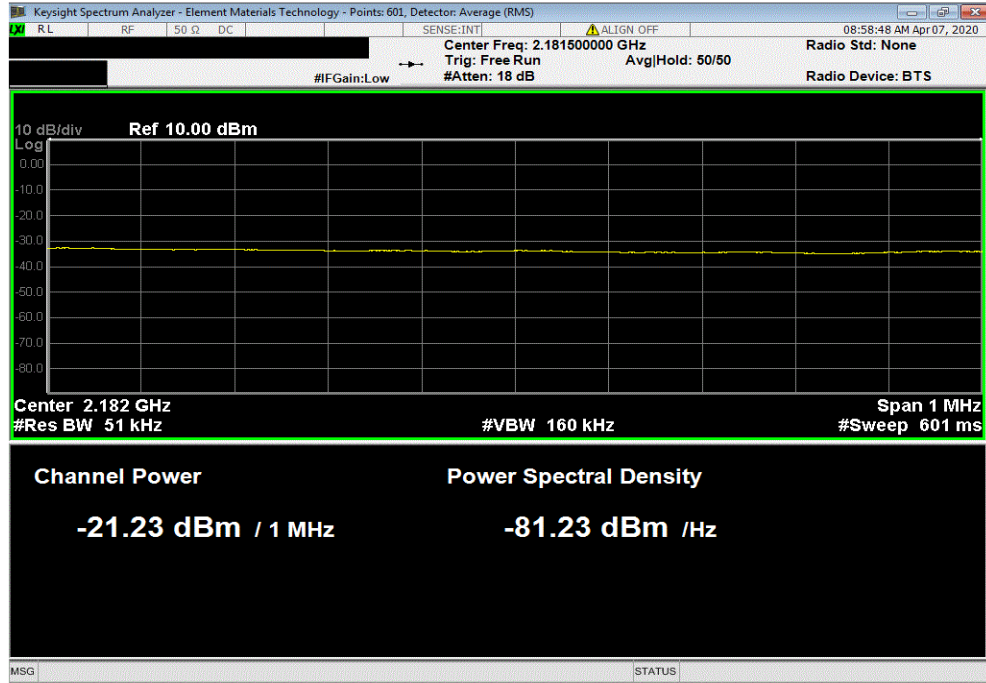


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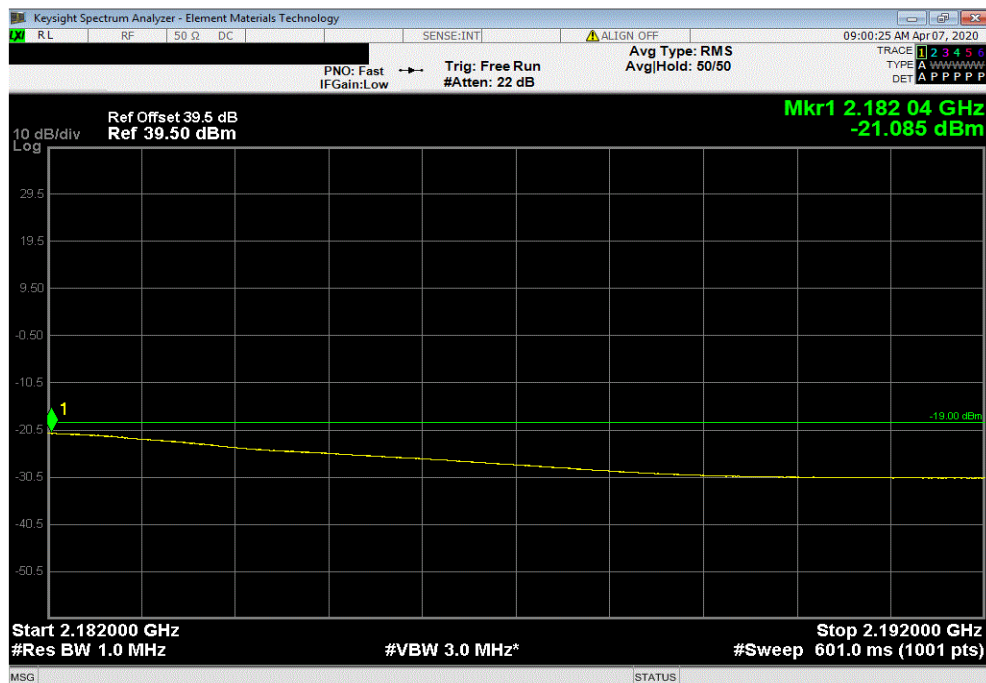


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , QPSK Modulation, High Channel 2177.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-21.23	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , QPSK Modulation, High Channel 2177.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-21.085	-19	Pass

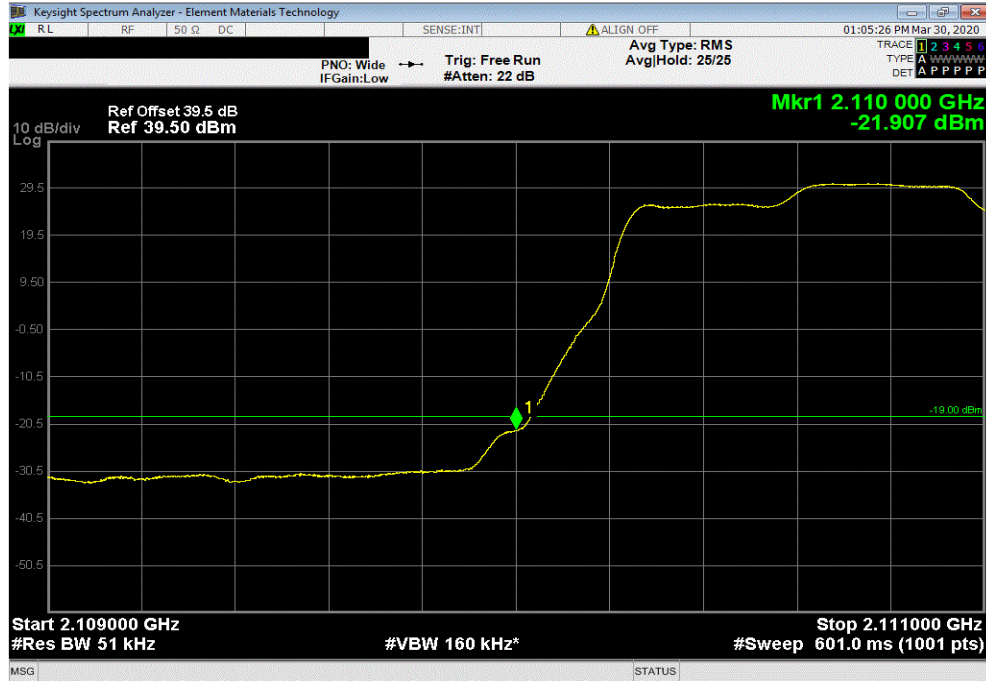


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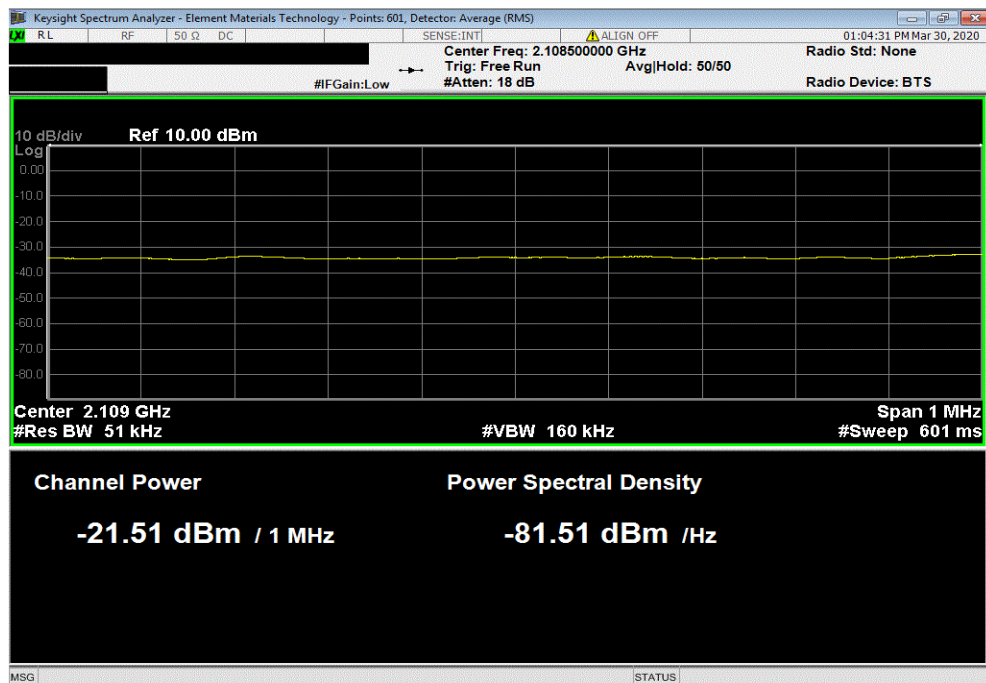


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 16-QAM Modulation, Low Channel 2112.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-21.907	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 16-QAM Modulation, Low Channel 2112.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-21.51	-19	Pass

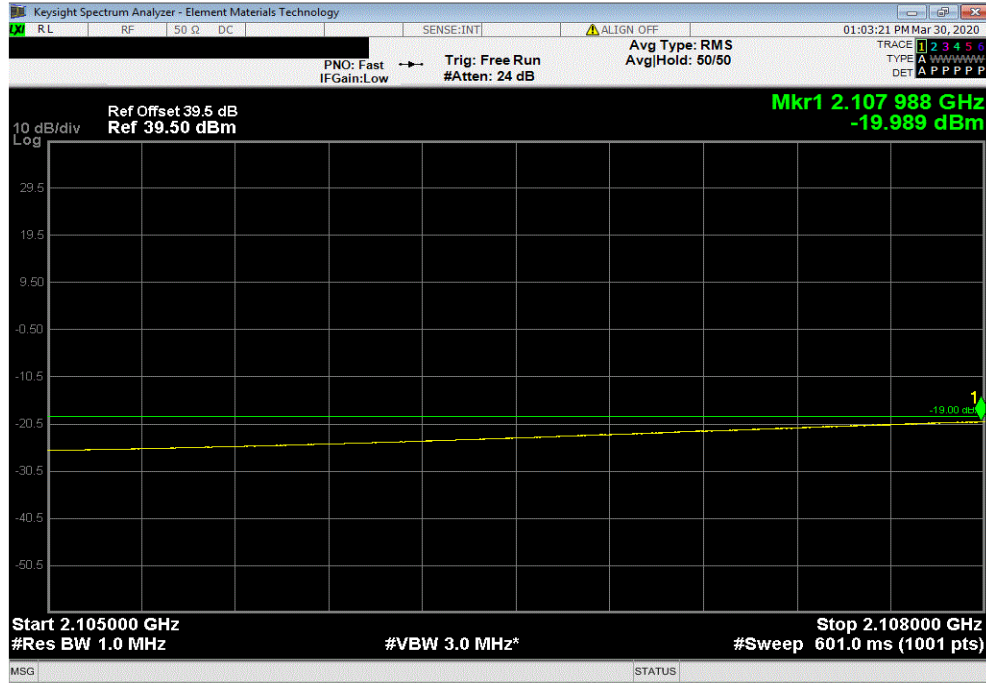


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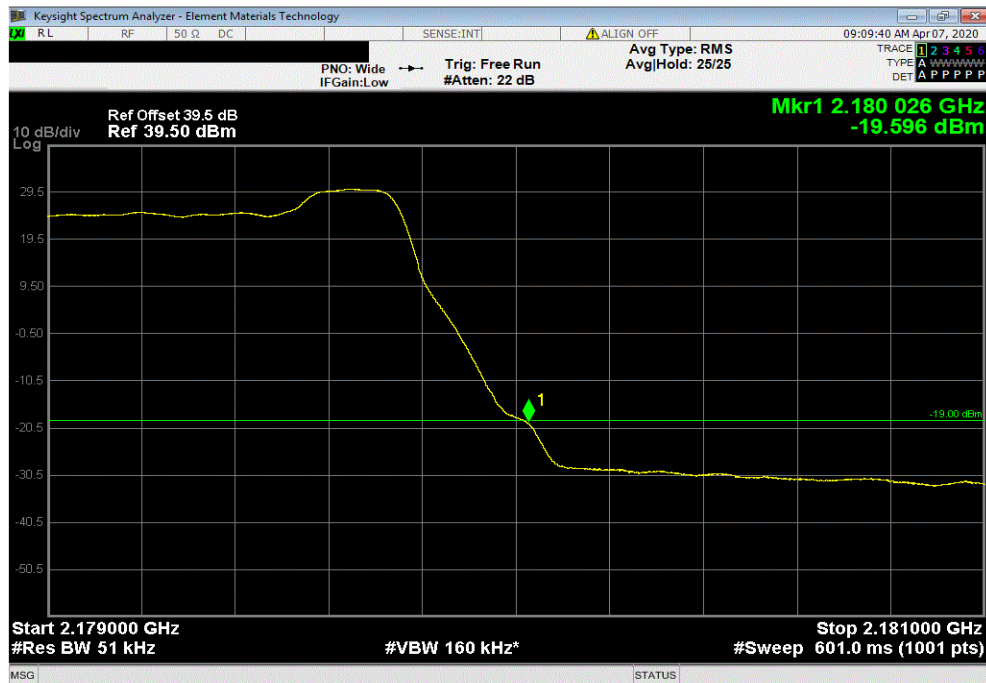


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 16-QAM Modulation, Low Channel 2112.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-19.989	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 16-QAM Modulation, High Channel 2177.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-19.596	-19	Pass

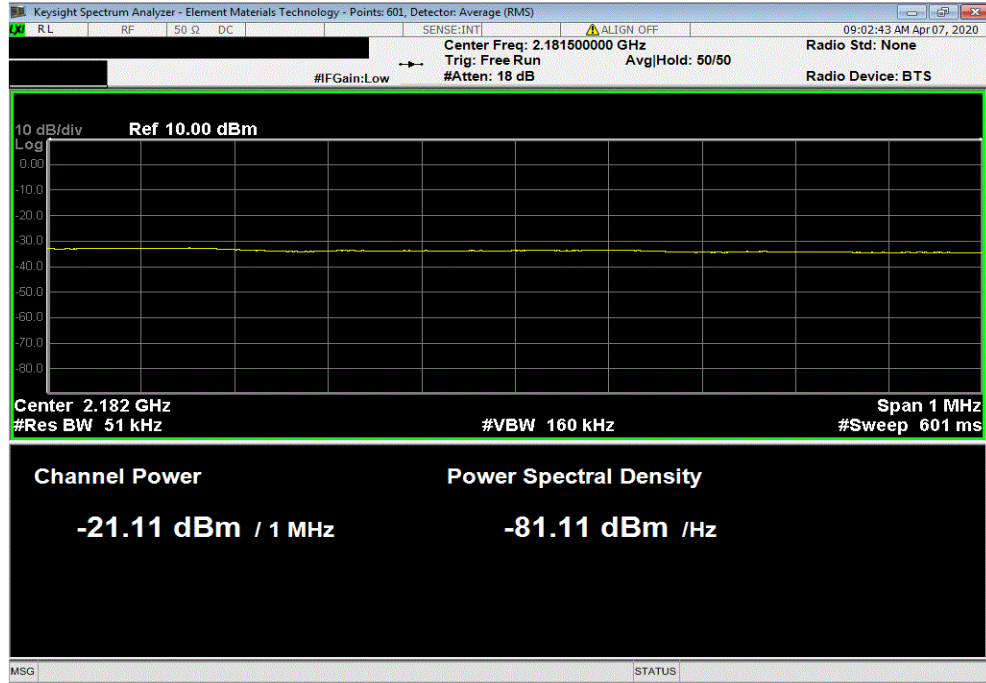


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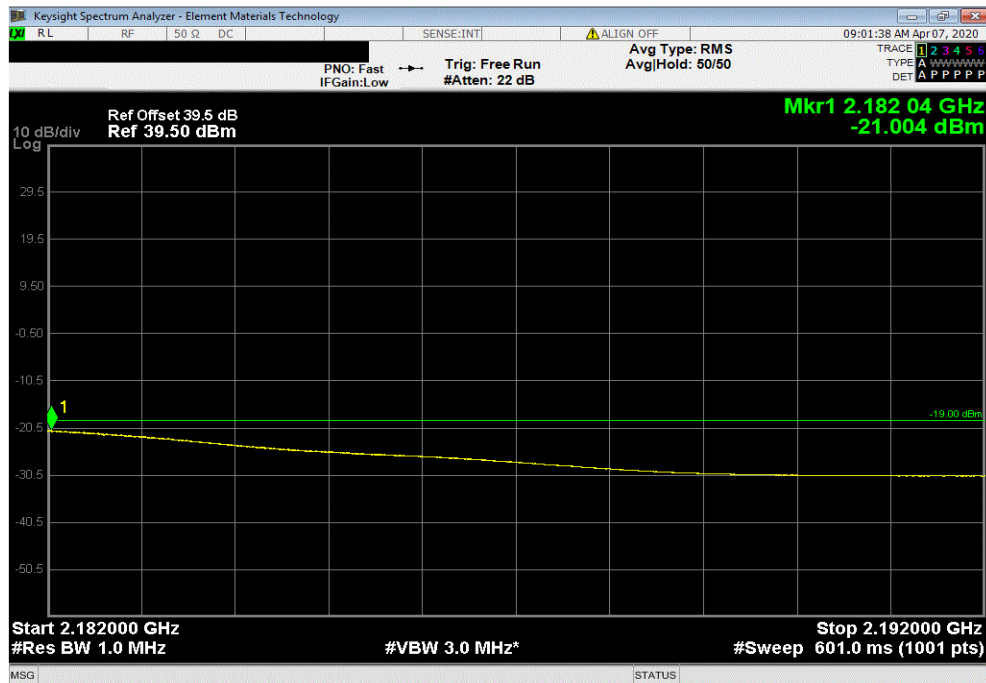


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 16-QAM Modulation, High Channel 2177.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-21.11	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 16-QAM Modulation, High Channel 2177.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-21.004	-19	Pass

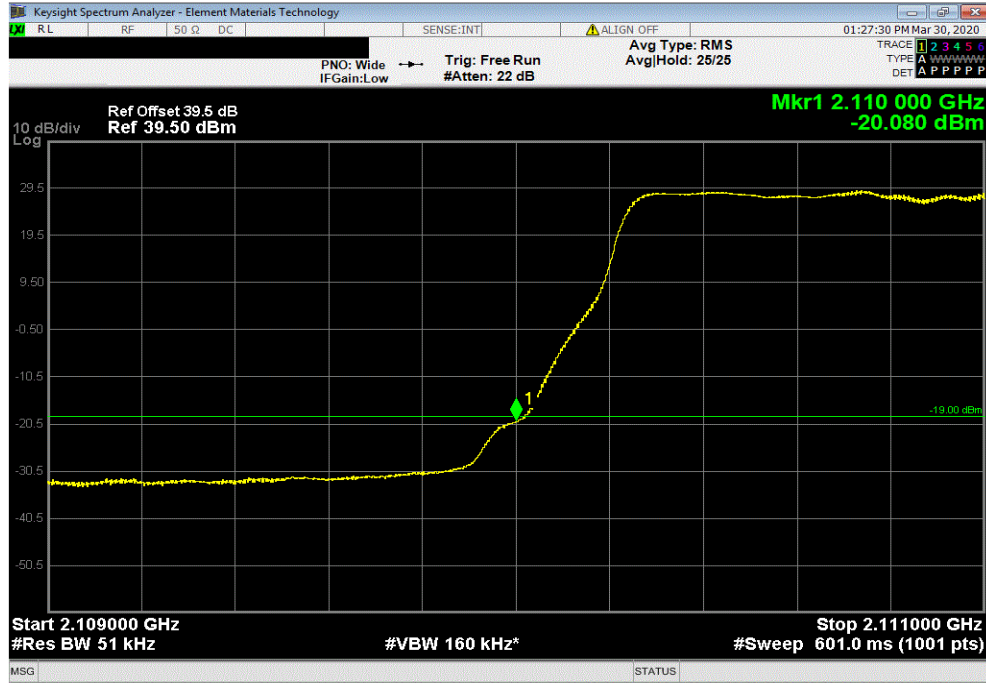


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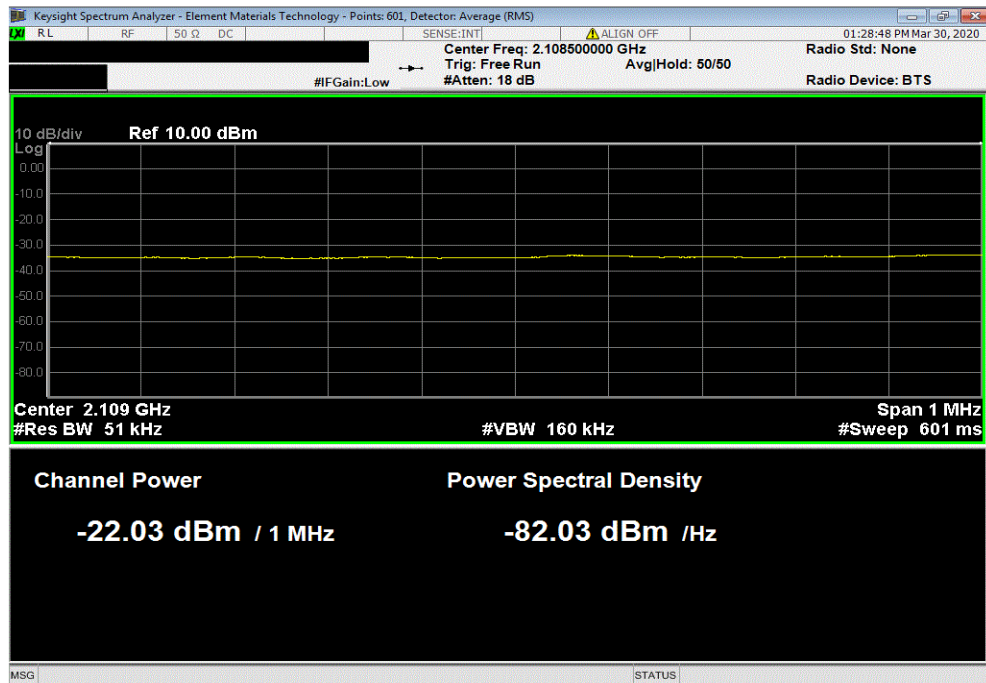


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 64-QAM Modulation, Low Channel 2112.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-20.08	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 64-QAM Modulation, Low Channel 2112.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-22.03	-19	Pass



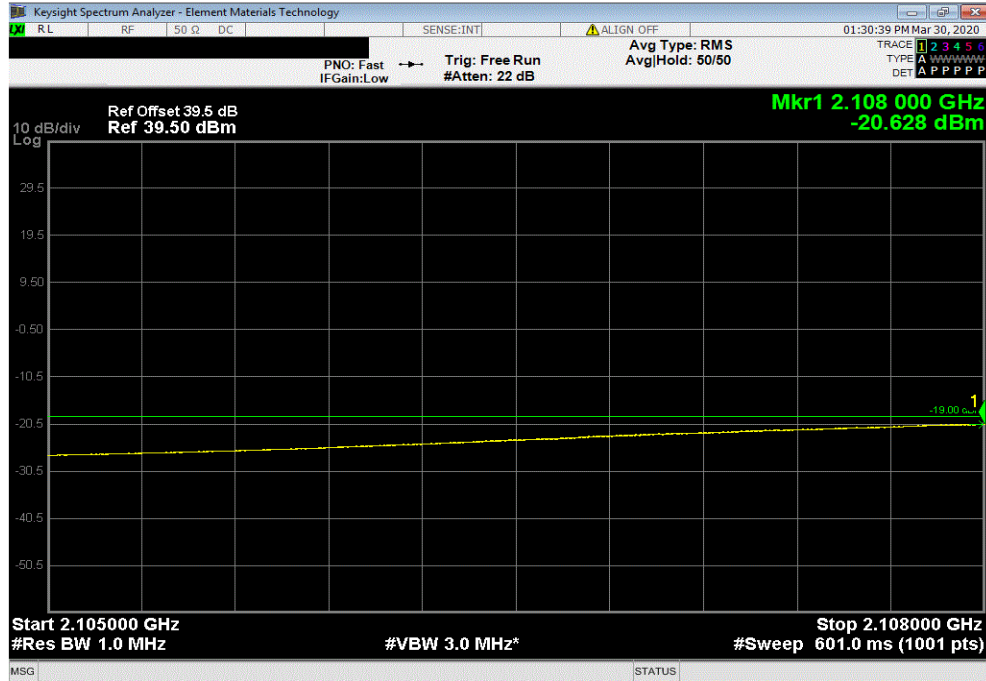
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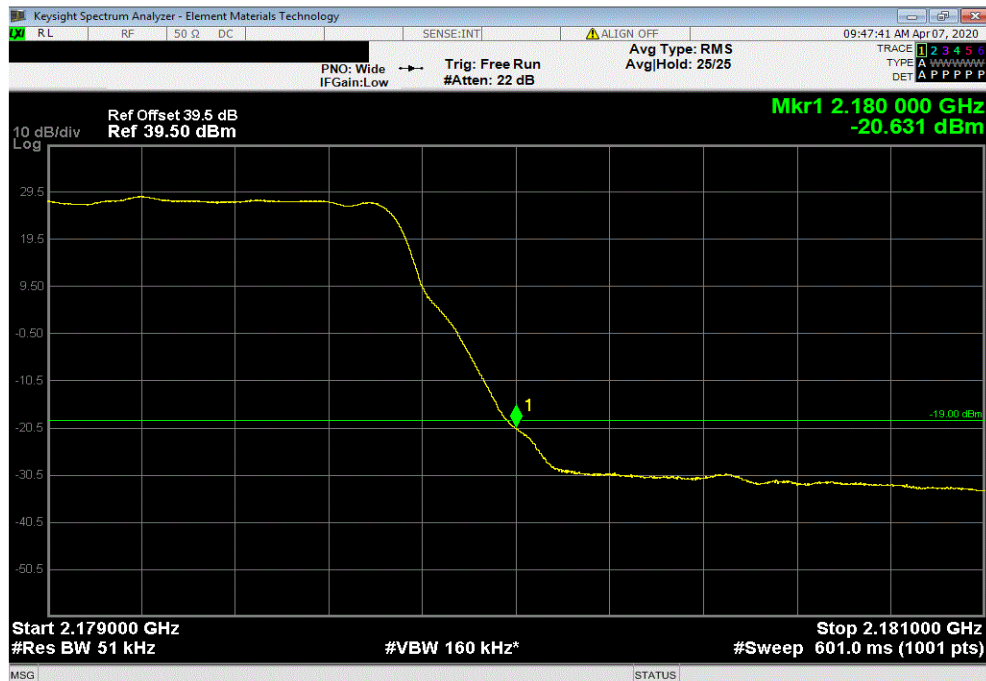
5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 64-QAM Modulation, Low Channel 2112.5 MHz, Frequency Range 3

				Value (dBm)	Limit (dBm)	Result
				-20.628	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 64-QAM Modulation, High Channel 2177.5 MHz, Frequency Range 1

				Value (dBm)	Limit (dBm)	Result
				-20.631	-19	Pass

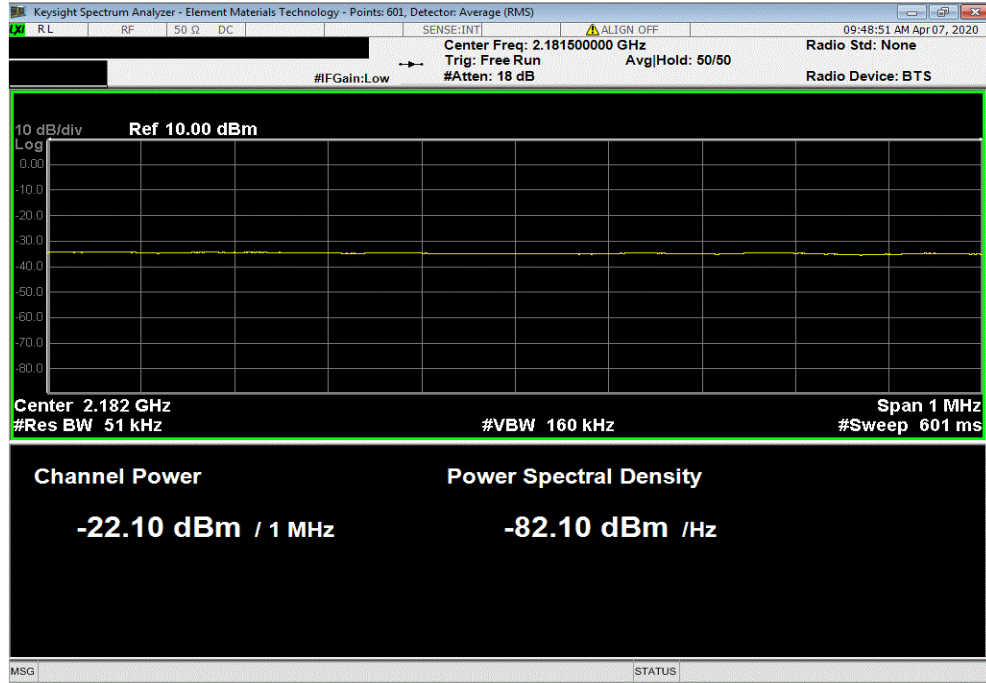


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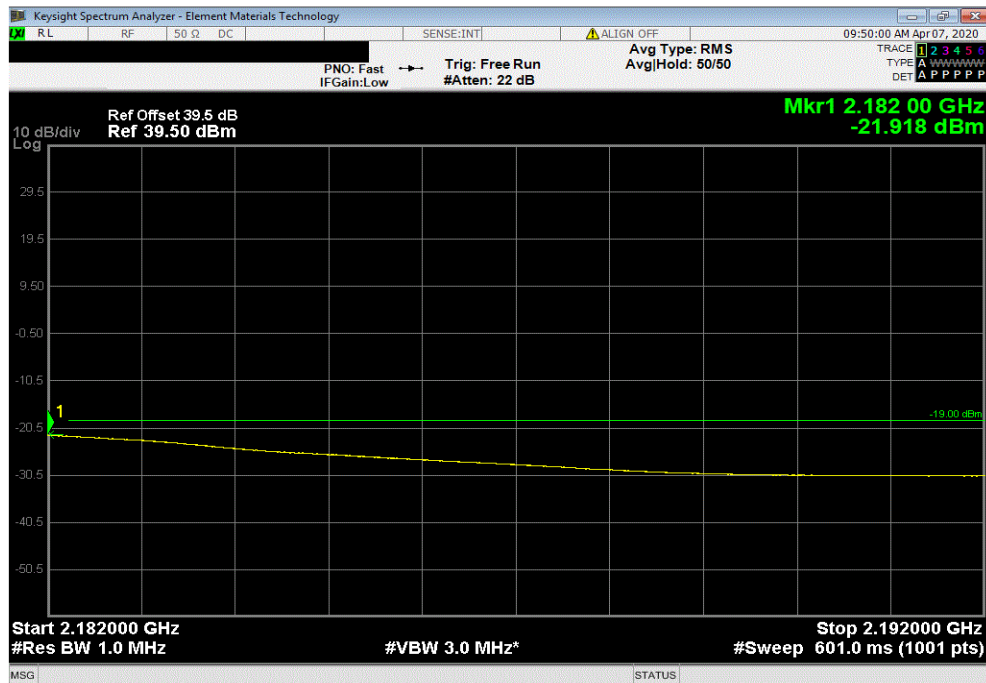


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 64-QAM Modulation, High Channel 2177.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-22.1	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 64-QAM Modulation, High Channel 2177.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-21.918	-19	Pass

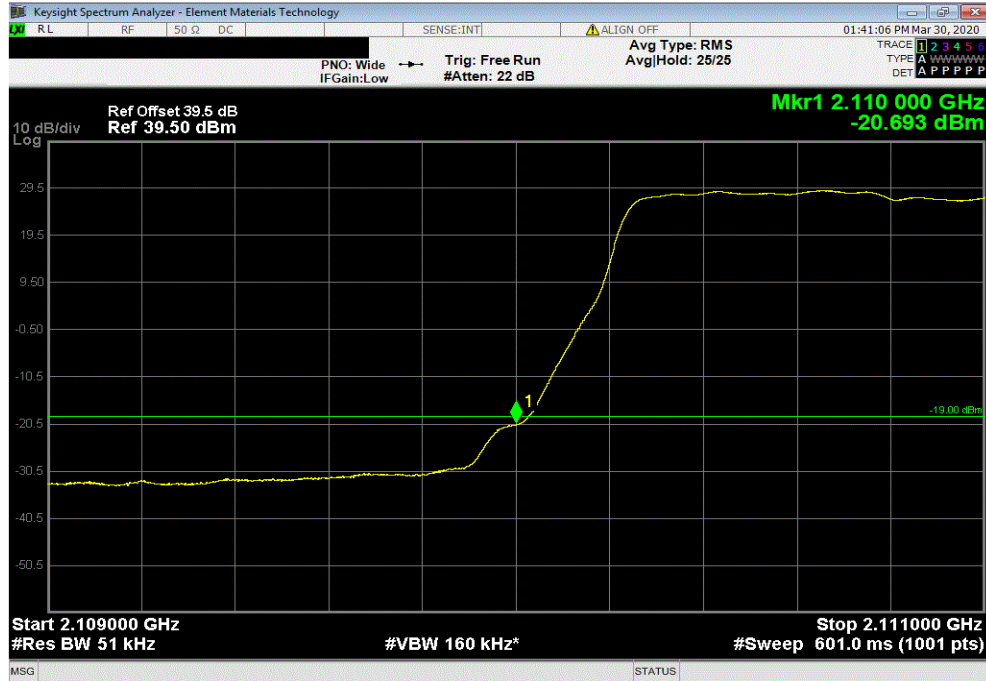


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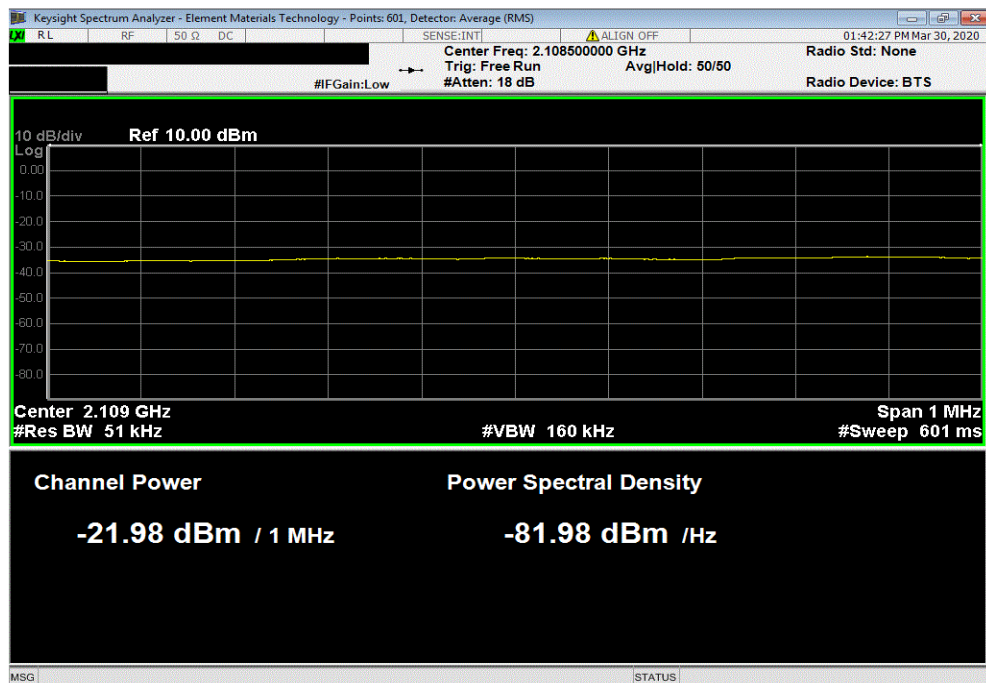


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 2112.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-20.693	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 2112.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-21.98	-19	Pass

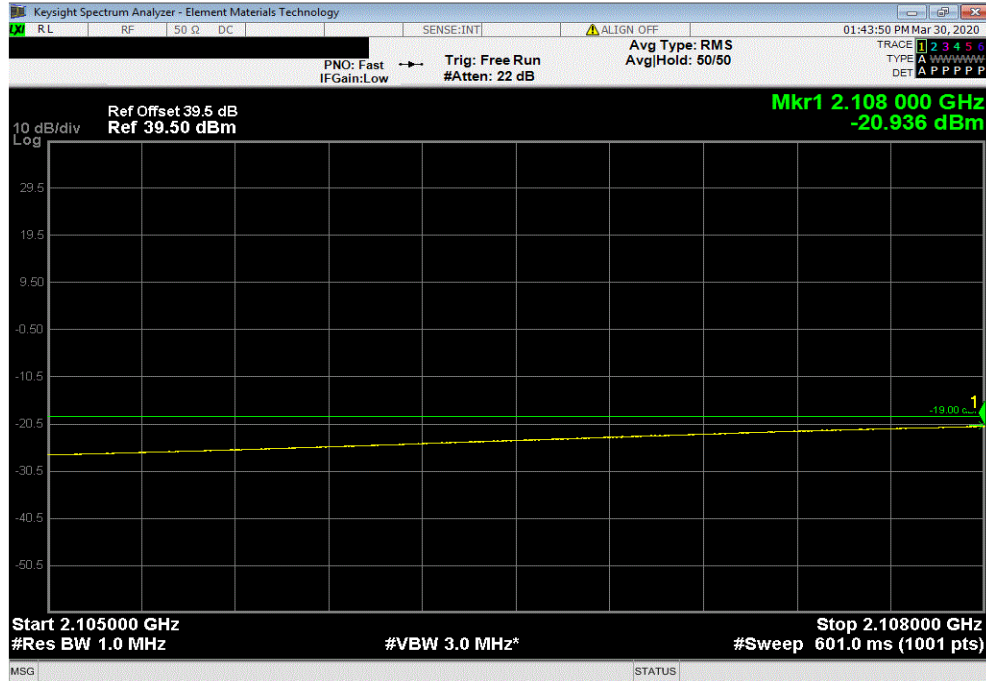


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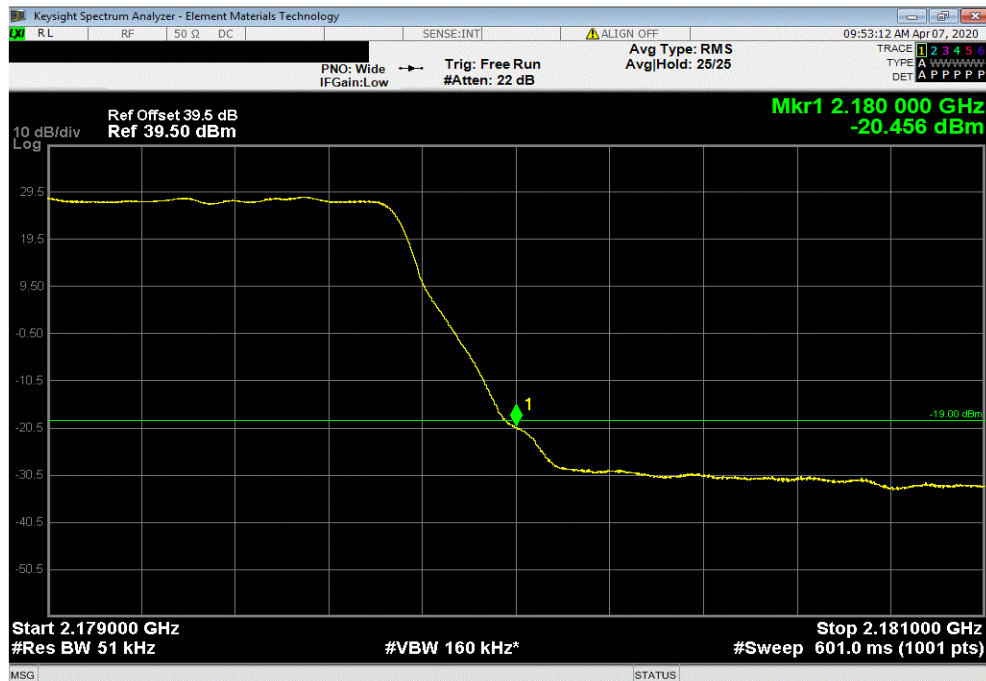


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 2112.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-20.936	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 2177.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-20.456	-19	Pass

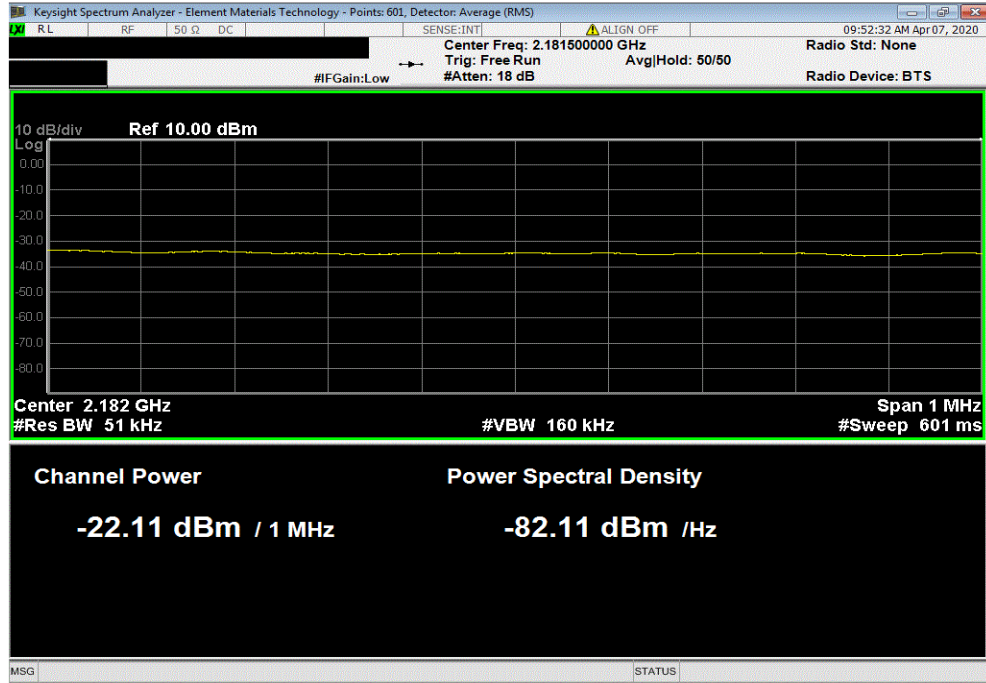


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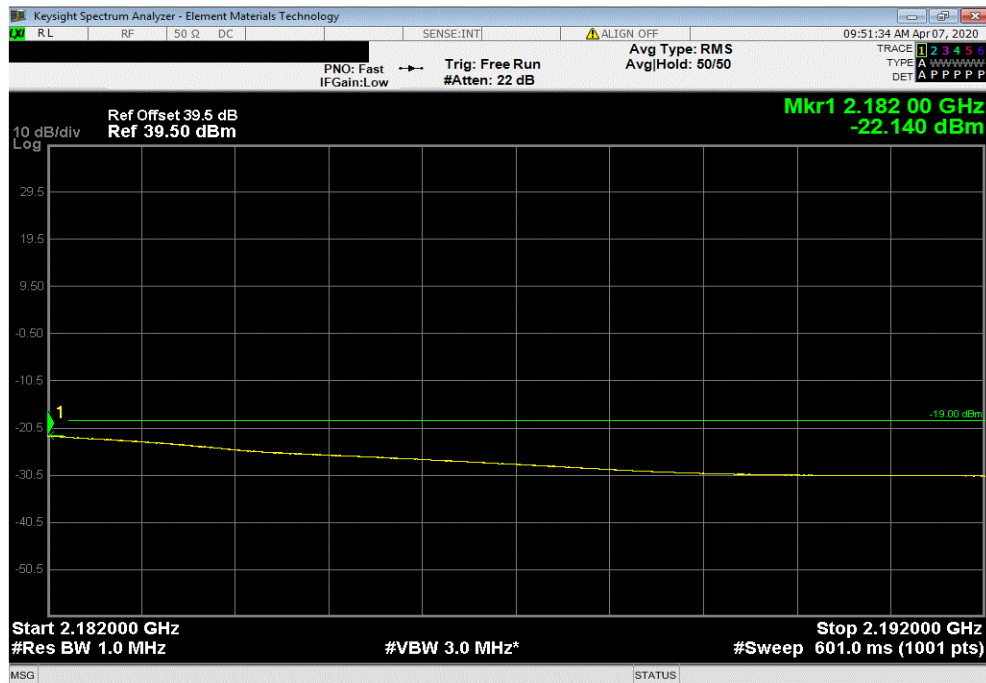


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 2177.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-22.11	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 2177.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-22.14	-19	Pass

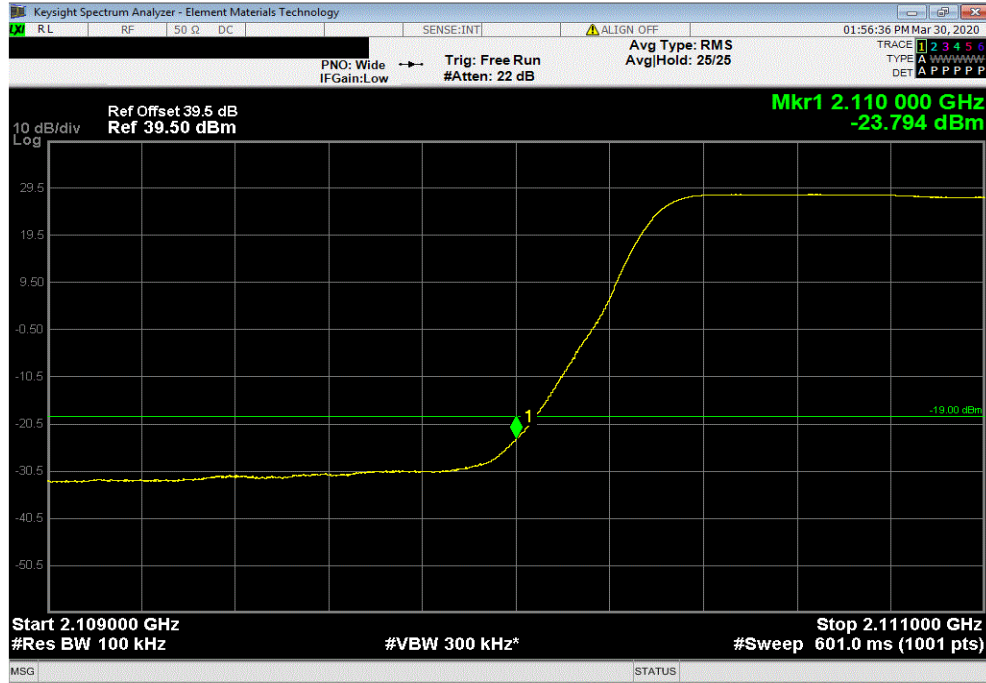


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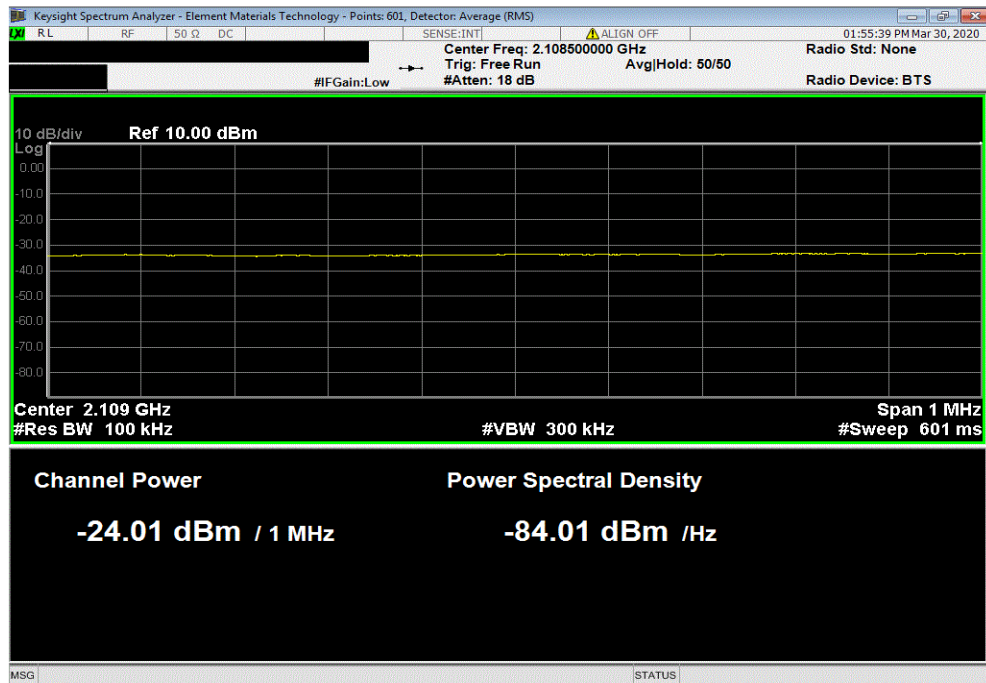


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , QPSK Modulation, Low Channel 2115 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-23.794	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , QPSK Modulation, Low Channel 2115 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.01	-19	Pass

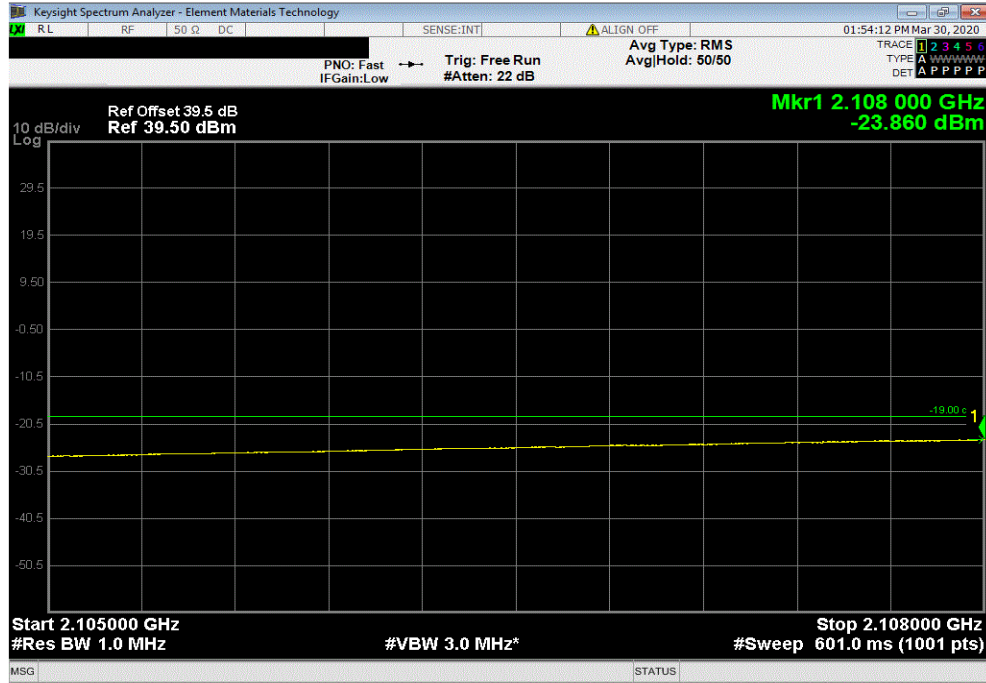


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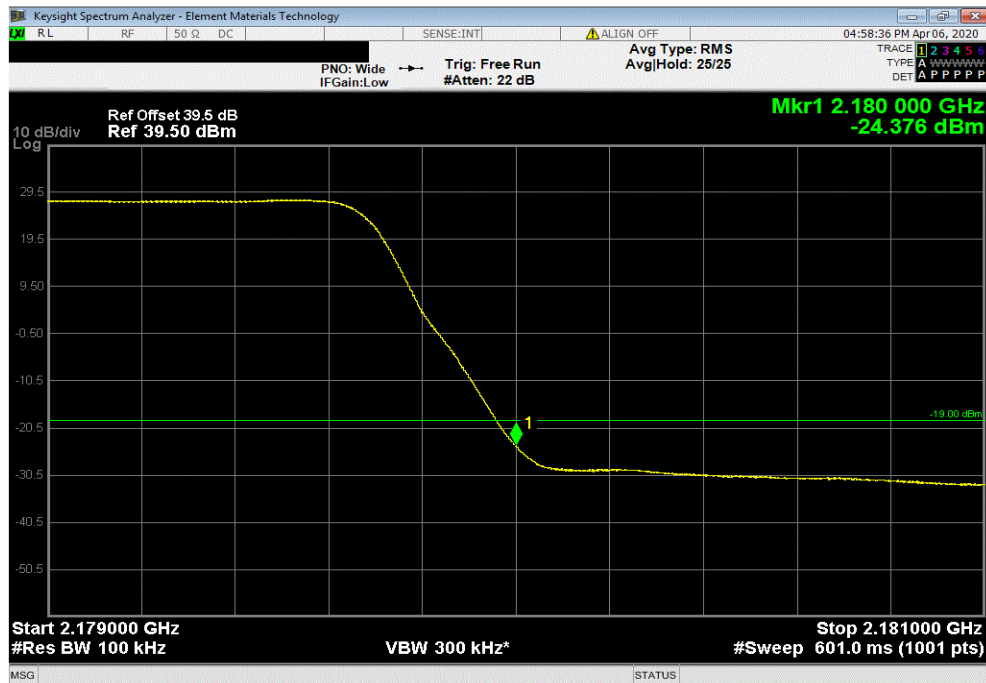


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , QPSK Modulation, Low Channel 2115 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.86	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , QPSK Modulation, High Channel 2175 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.376	-19	Pass

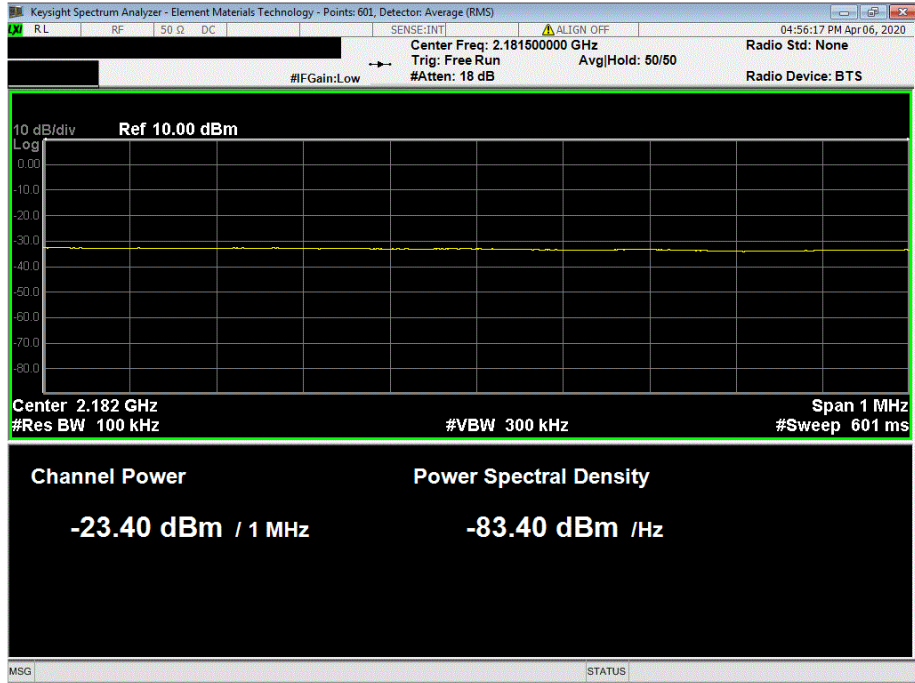


BAND EDGE BAND 66a

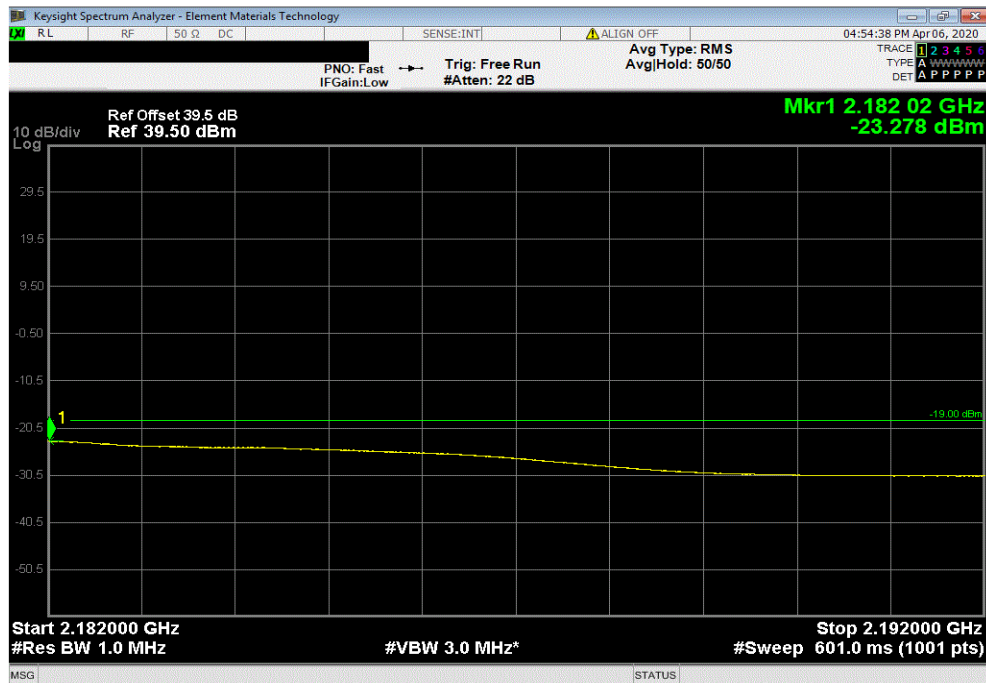


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , QPSK Modulation, High Channel 2175 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-23.4	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , QPSK Modulation, High Channel 2175 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.278	-19	Pass

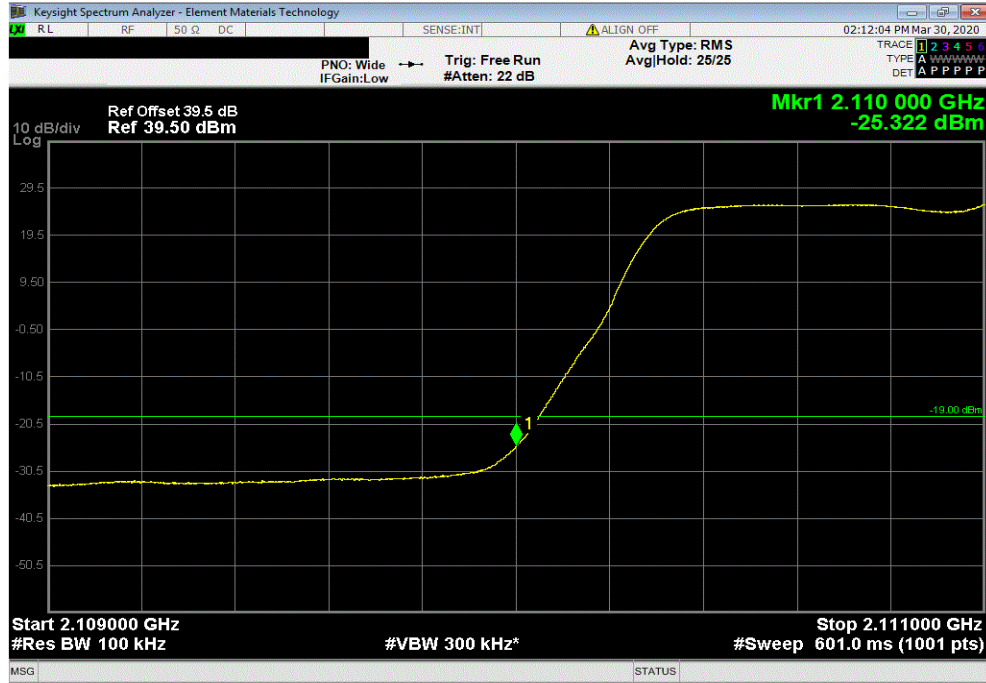


BAND EDGE BAND 66a

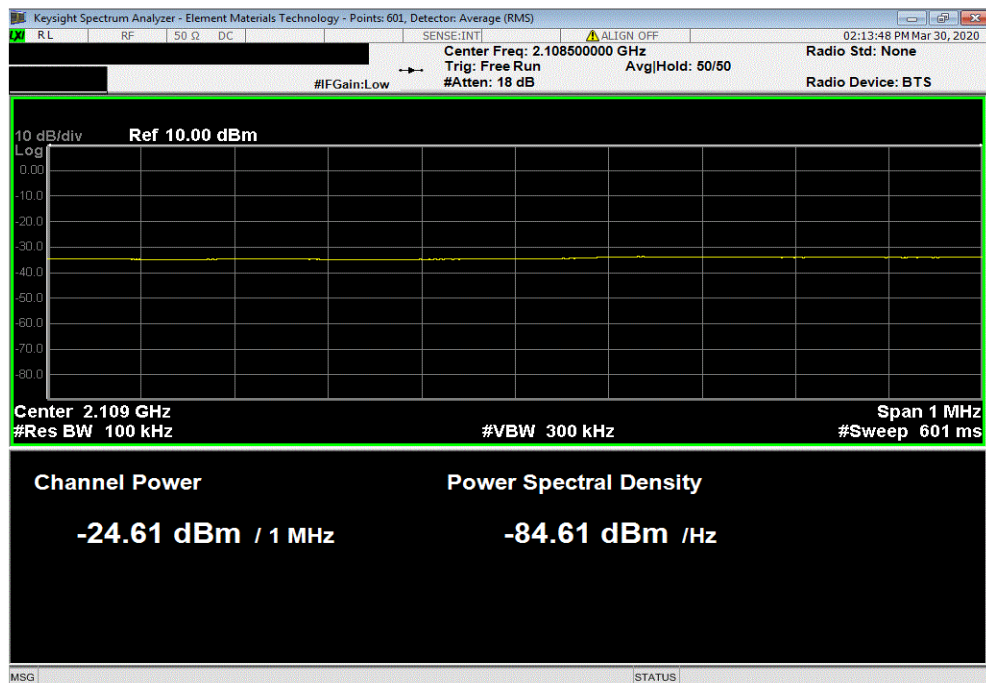


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 16-QAM Modulation, Low Channel 2115 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-25.322	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 16-QAM Modulation, Low Channel 2115 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.61	-19	Pass



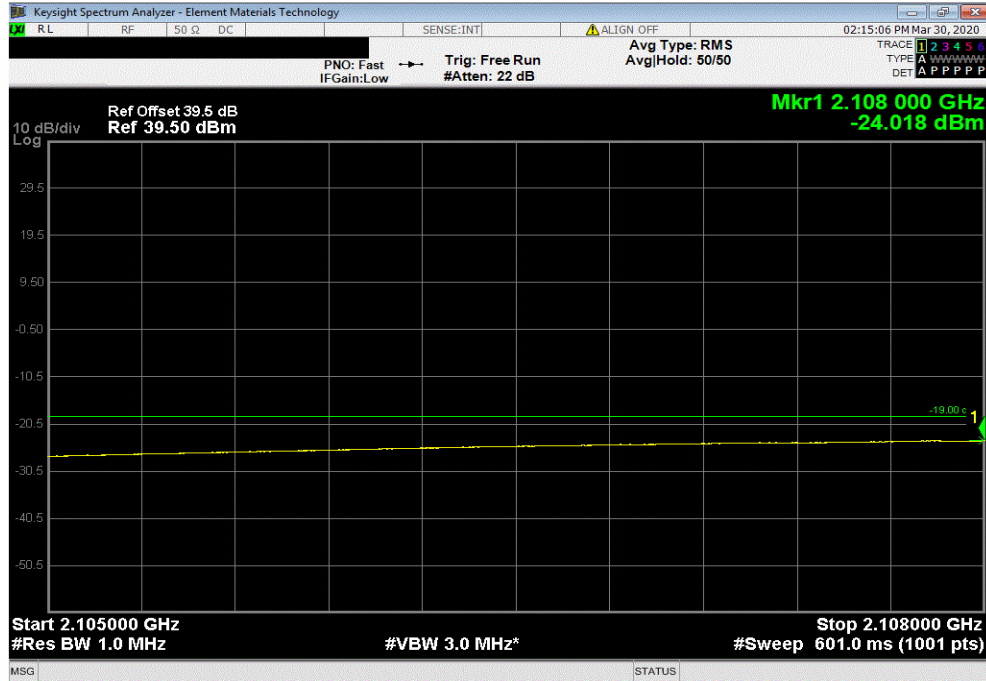
BAND EDGE BAND 66a



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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 16-QAM Modulation, Low Channel 2115 MHz, Frequency Range 3

				Value (dBm)	Limit (dBm)	Result
				-24.018	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 2175 MHz, Frequency Range 1

				Value (dBm)	Limit (dBm)	Result
				-25.189	-19	Pass

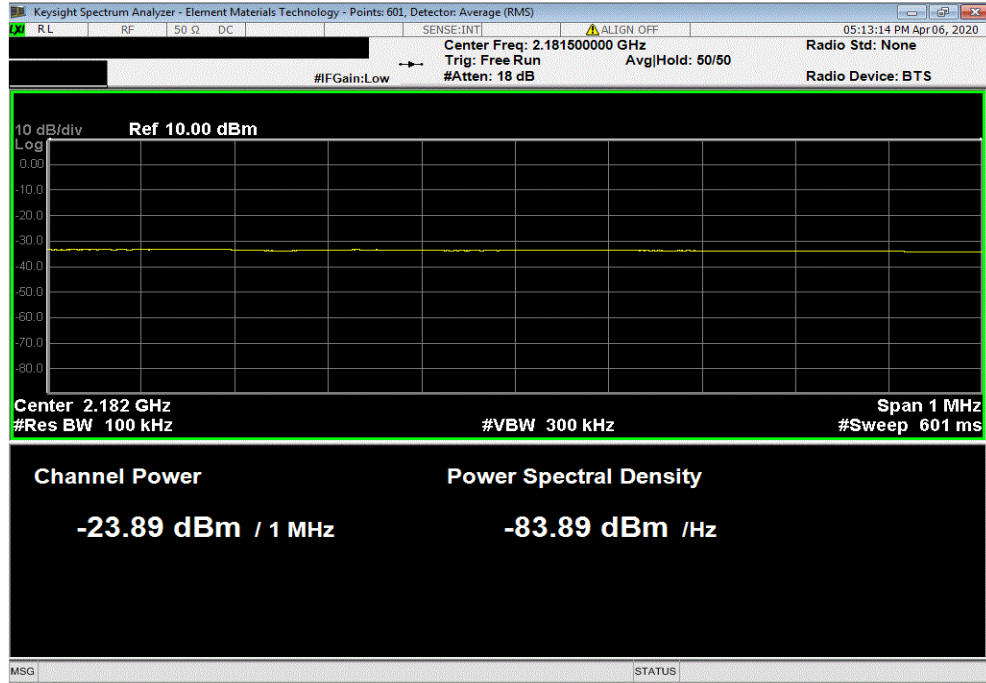


BAND EDGE BAND 66a

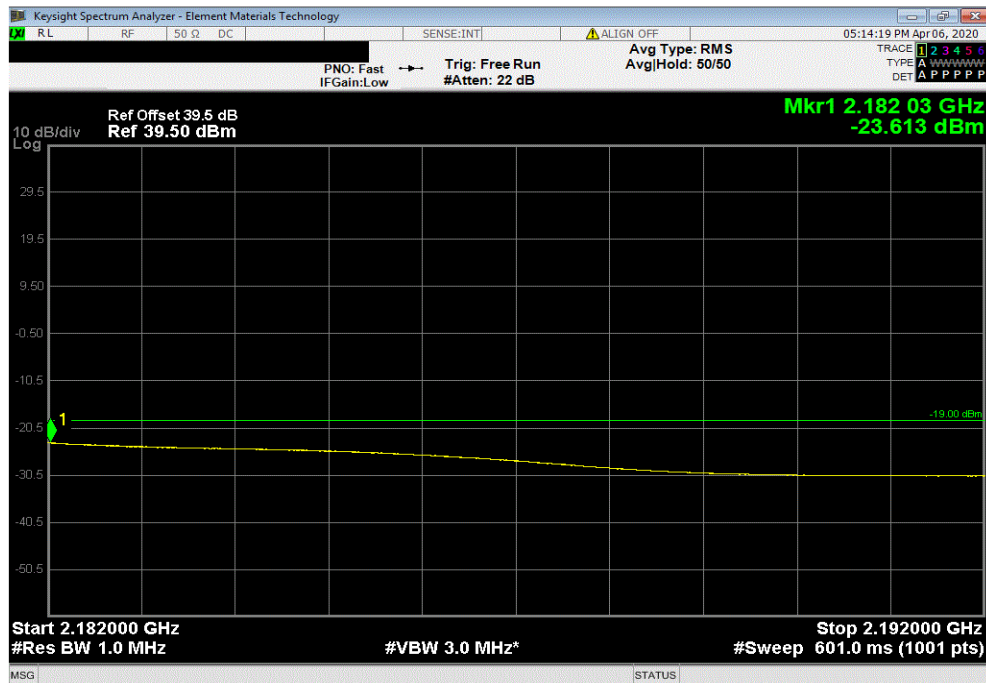


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 2175 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-23.89	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 2175 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.613	-19	Pass



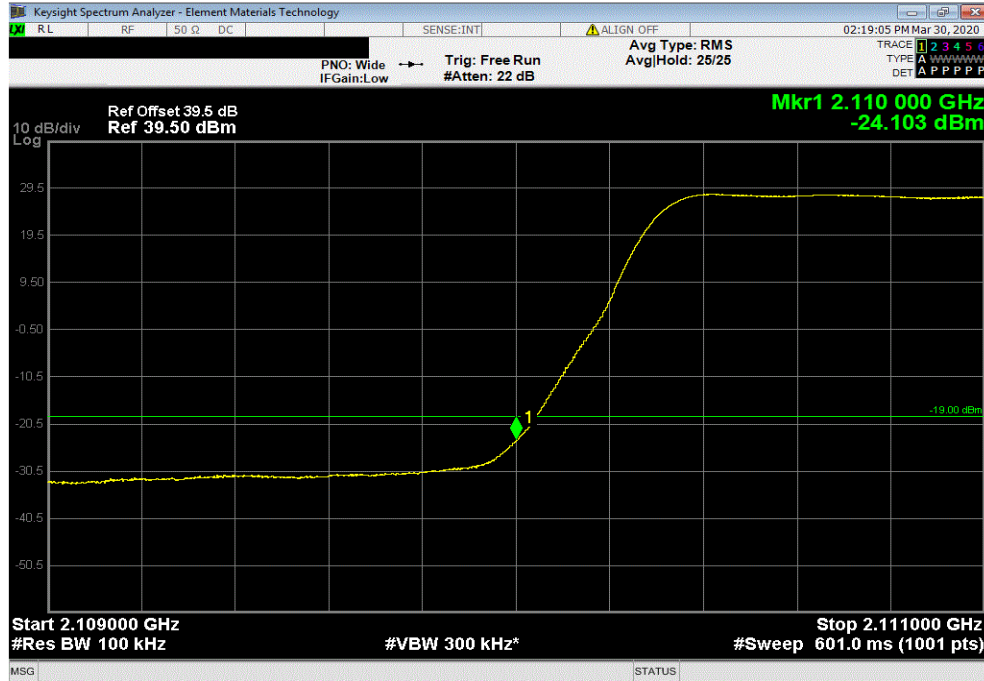
BAND EDGE BAND 66a



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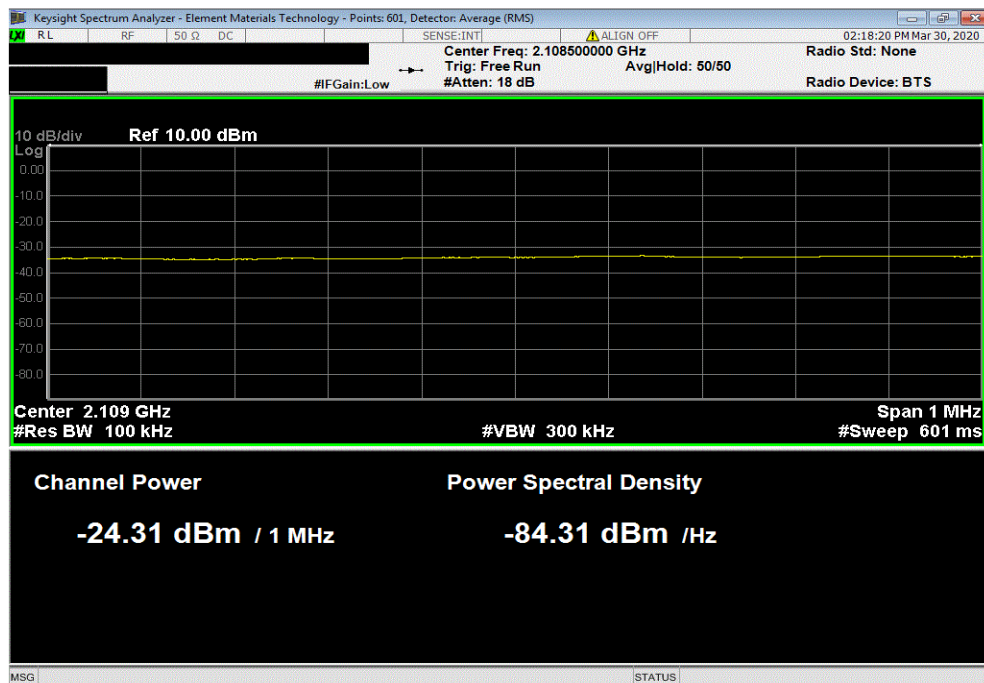
5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 2115 MHz, Frequency Range 1

				Value (dBm)	Limit (dBm)	Result
				-24.103	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 2115 MHz, Frequency Range 2

				Value (dBm)	Limit (dBm)	Result
				-24.31	-19	Pass

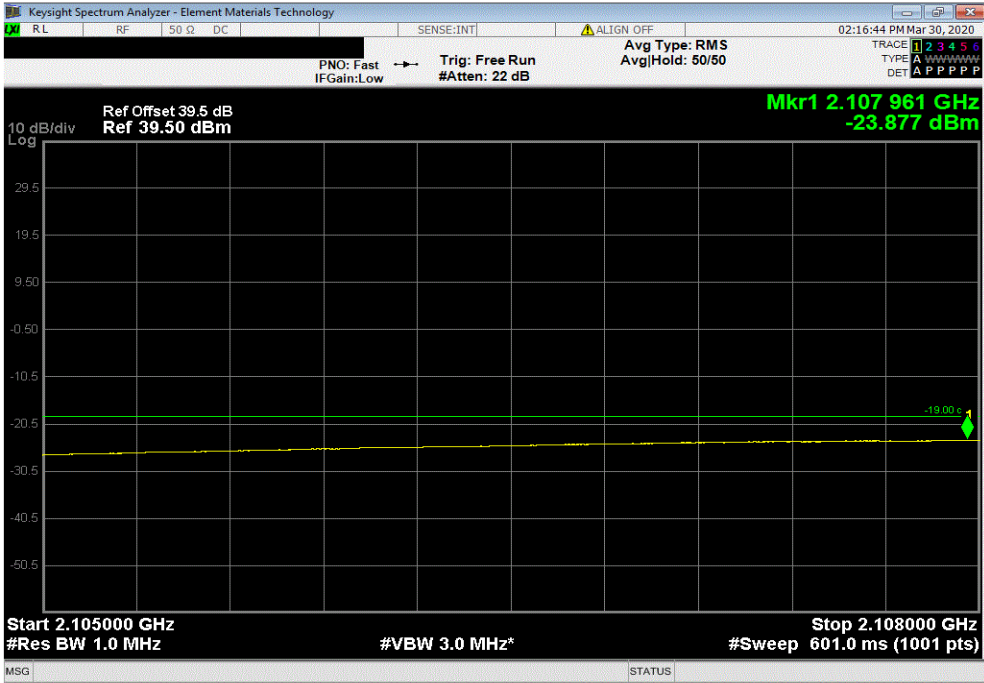


BAND EDGE BAND 66a

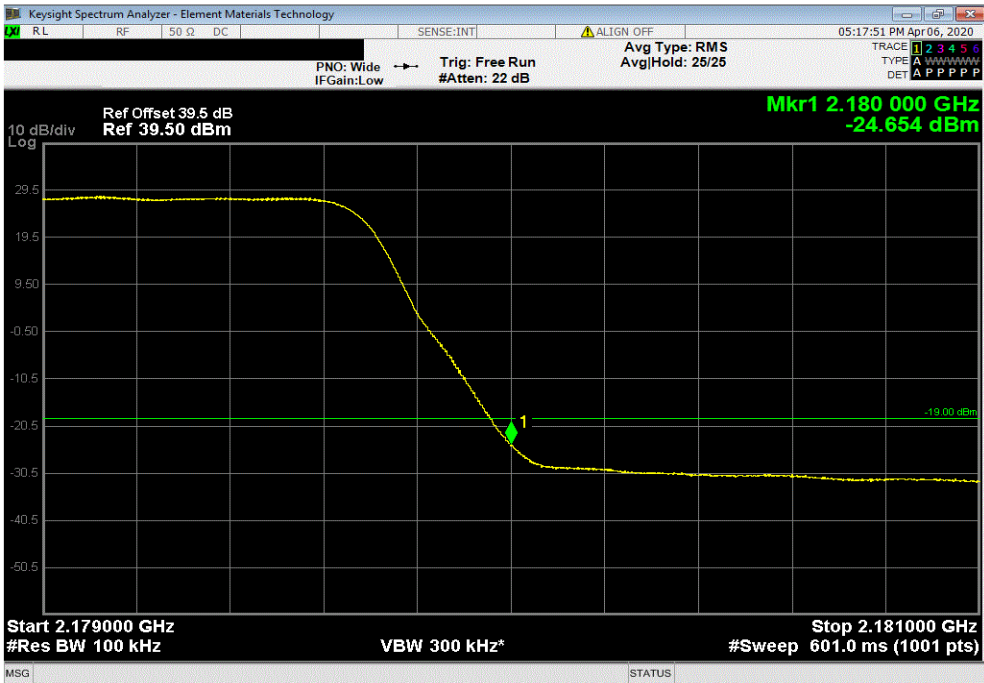


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 2115 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.877	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2175 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.654	-19	Pass

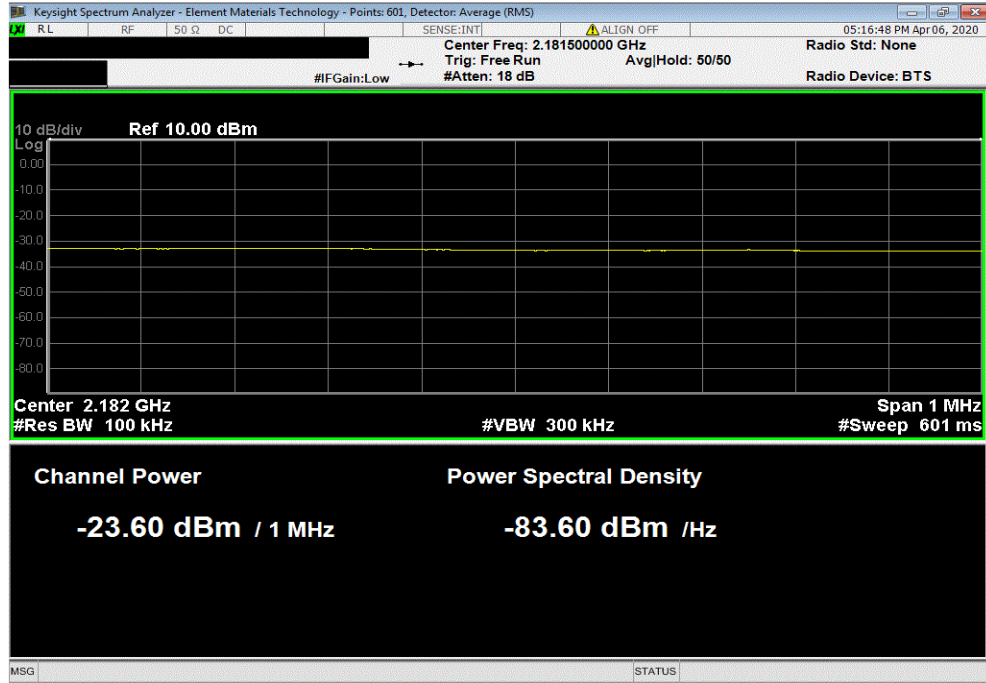


BAND EDGE BAND 66a

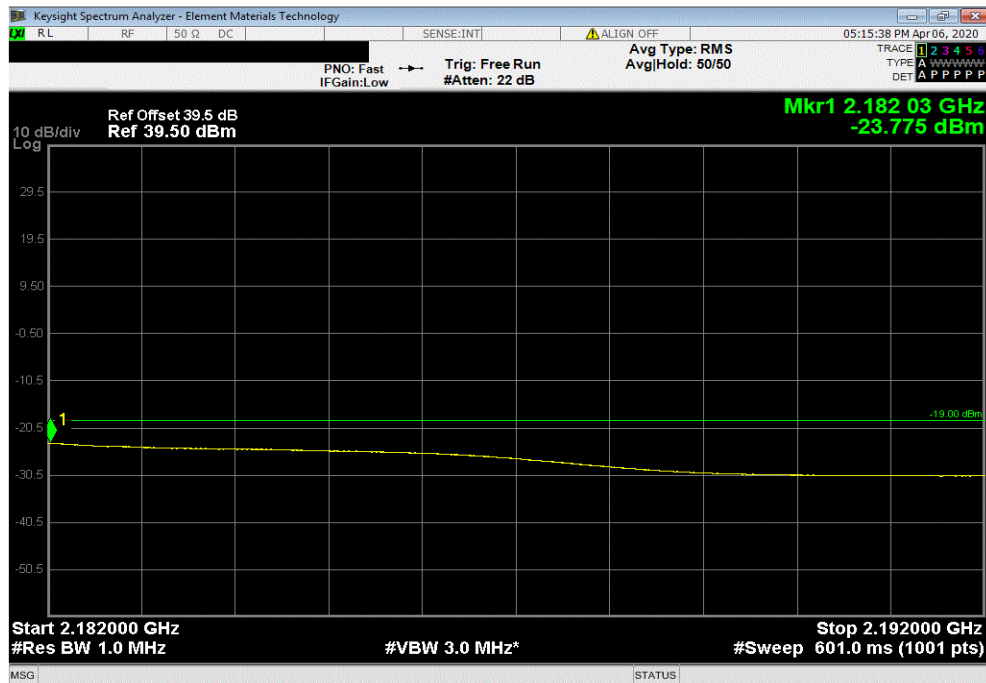


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2175 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-23.6	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2175 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.775	-19	Pass

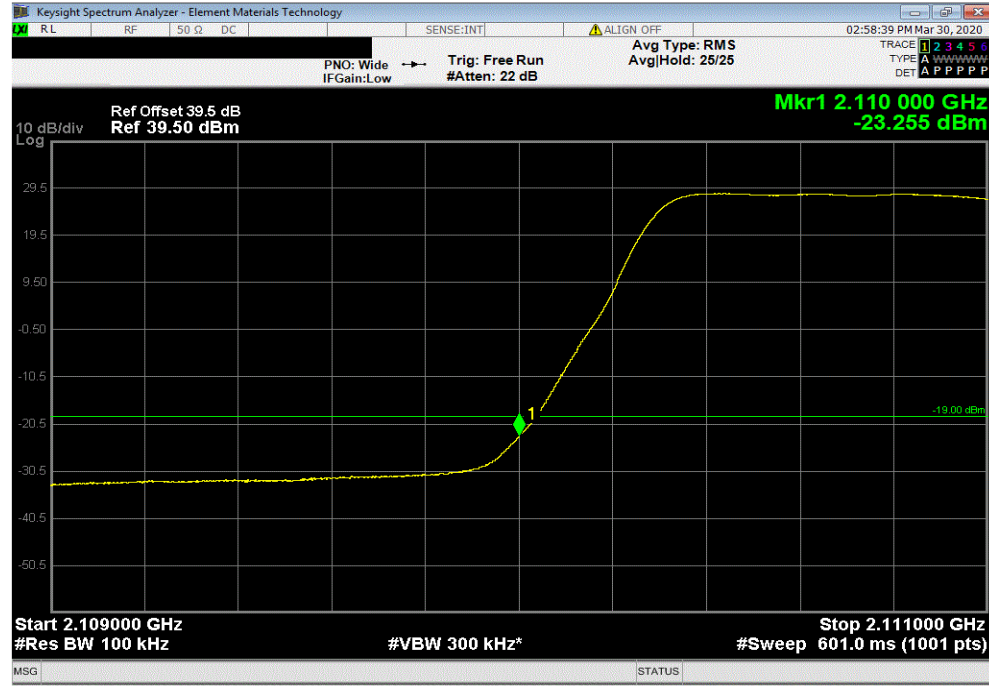


BAND EDGE BAND 66a

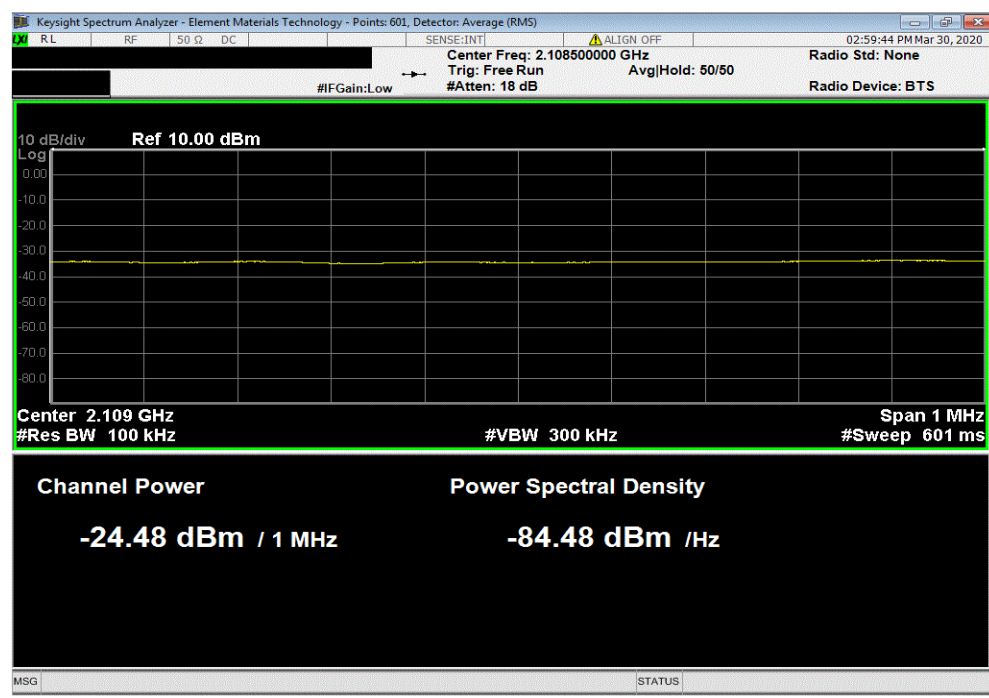


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 256-QAM Modulation, Low Channel 2115 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-23.255	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 256-QAM Modulation, Low Channel 2115 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.48	-19	Pass

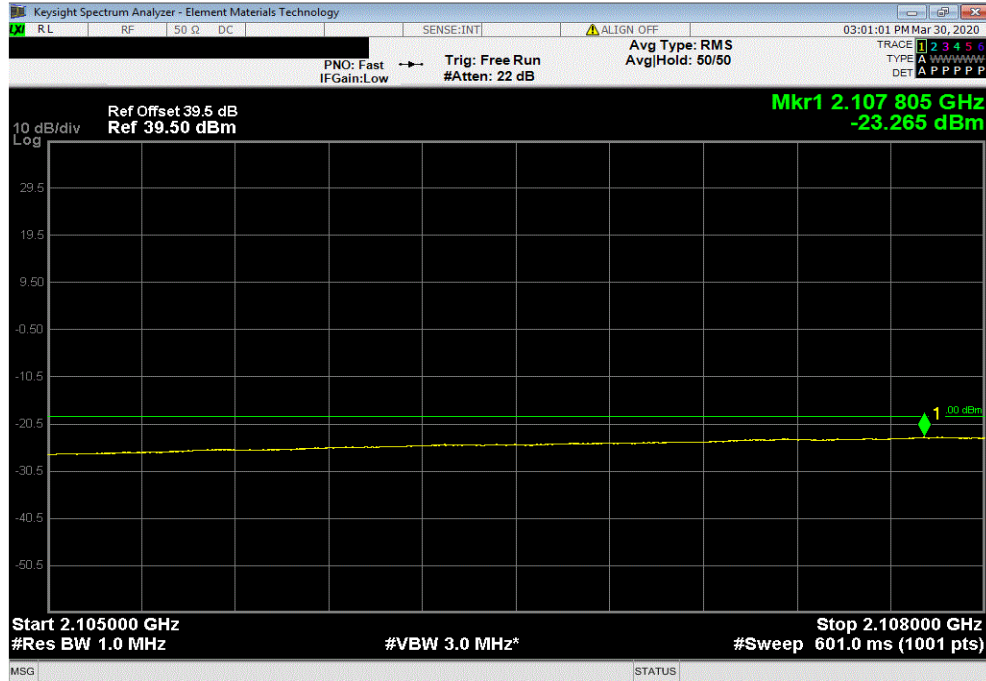


BAND EDGE BAND 66a

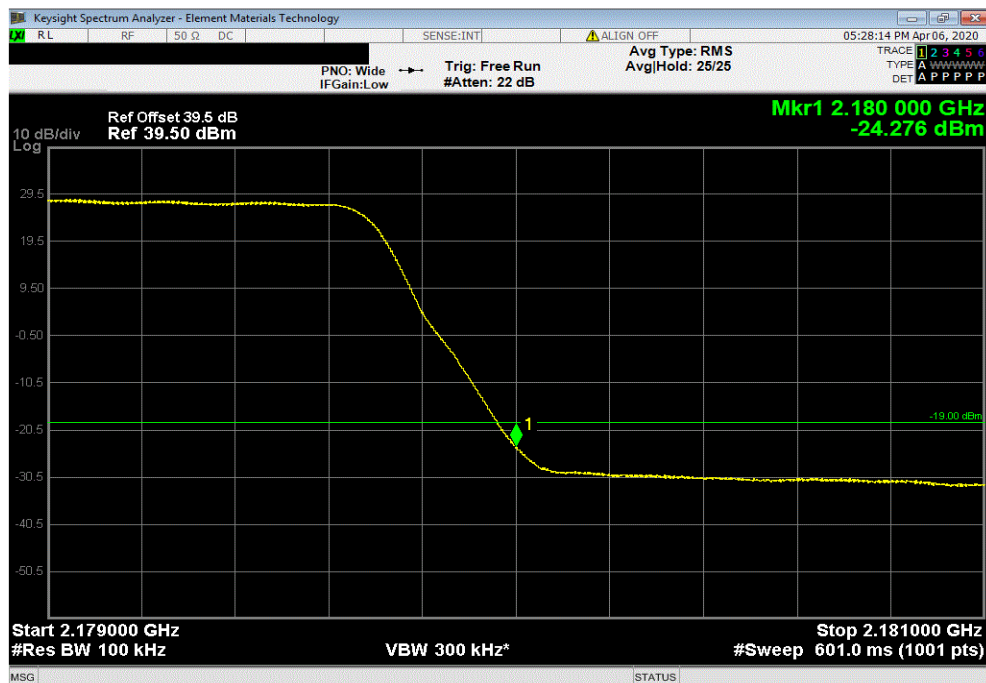


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 256-QAM Modulation, Low Channel 2115 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.265	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 256-QAM Modulation, High Channel 2175 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.276	-19	Pass

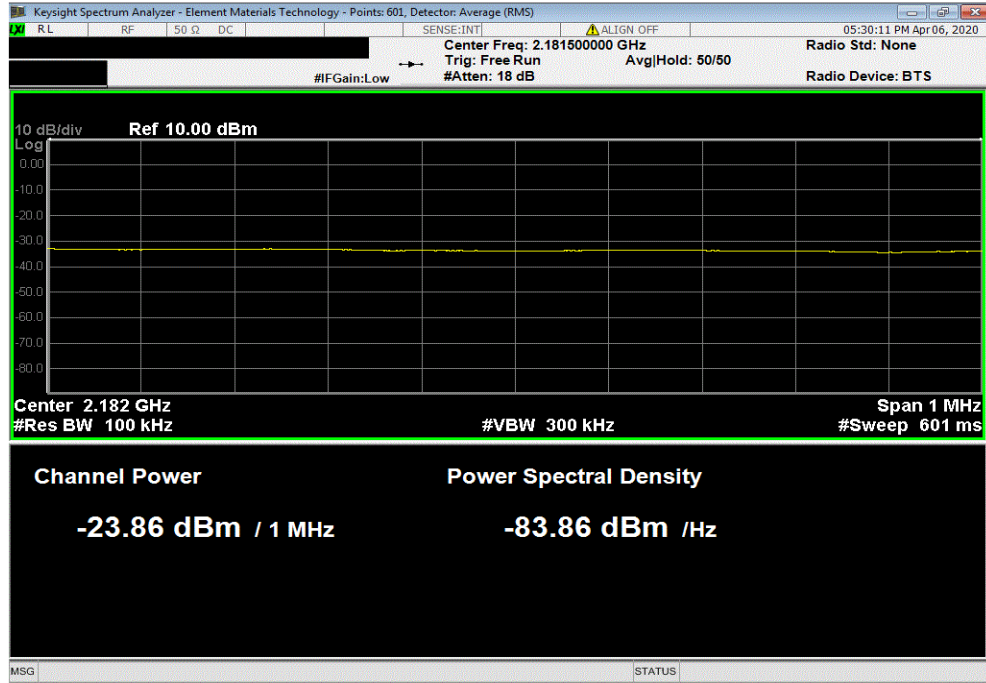


BAND EDGE BAND 66a

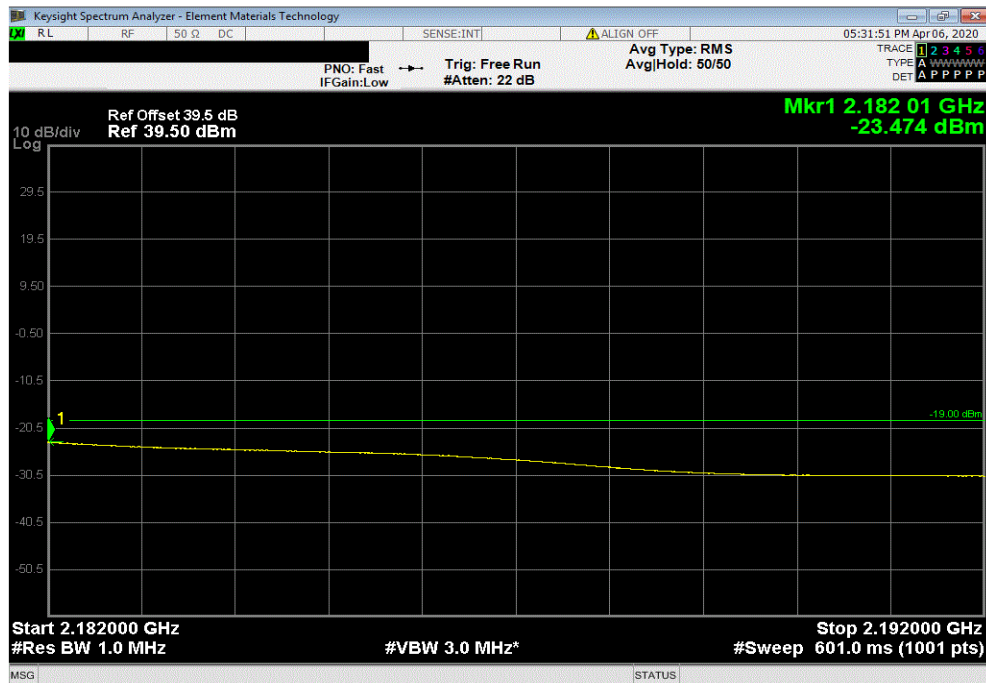


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 256-QAM Modulation, High Channel 2175 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-23.86	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 10 MHz Bandwidth , 256-QAM Modulation, High Channel 2175 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.474	-19	Pass

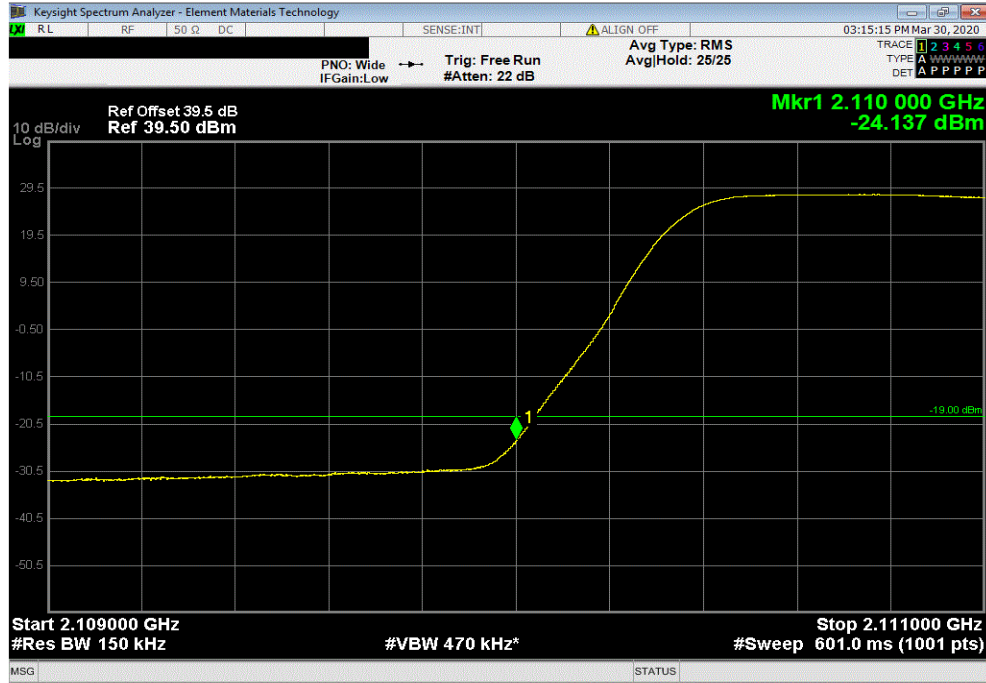


BAND EDGE BAND 66a

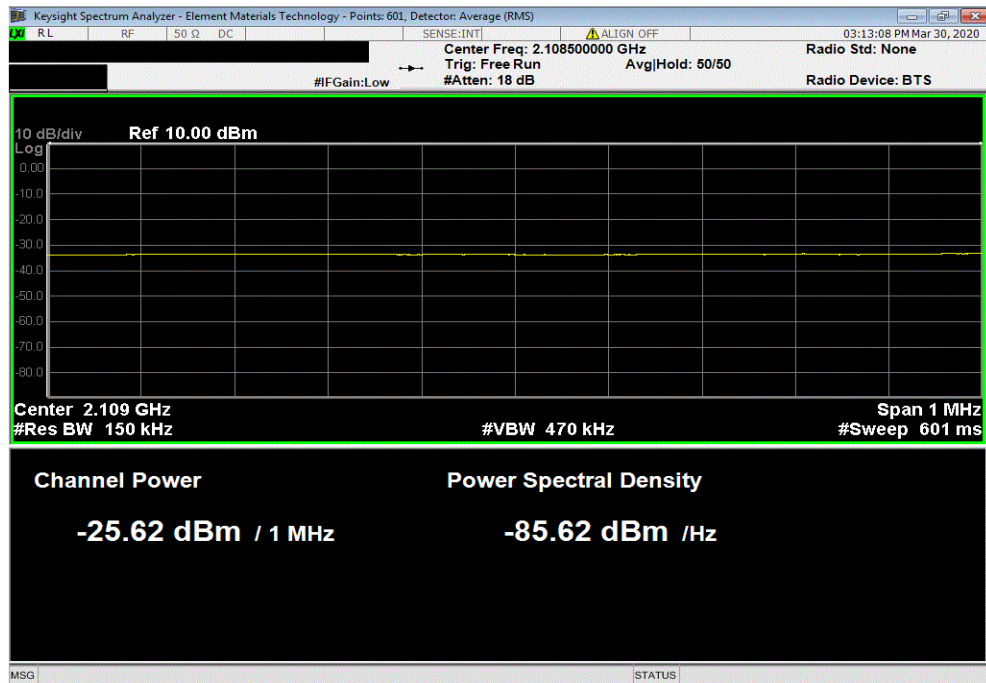


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, QPSK Modulation, Low Channel 2117.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.137	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, QPSK Modulation, Low Channel 2117.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25.62	-19	Pass



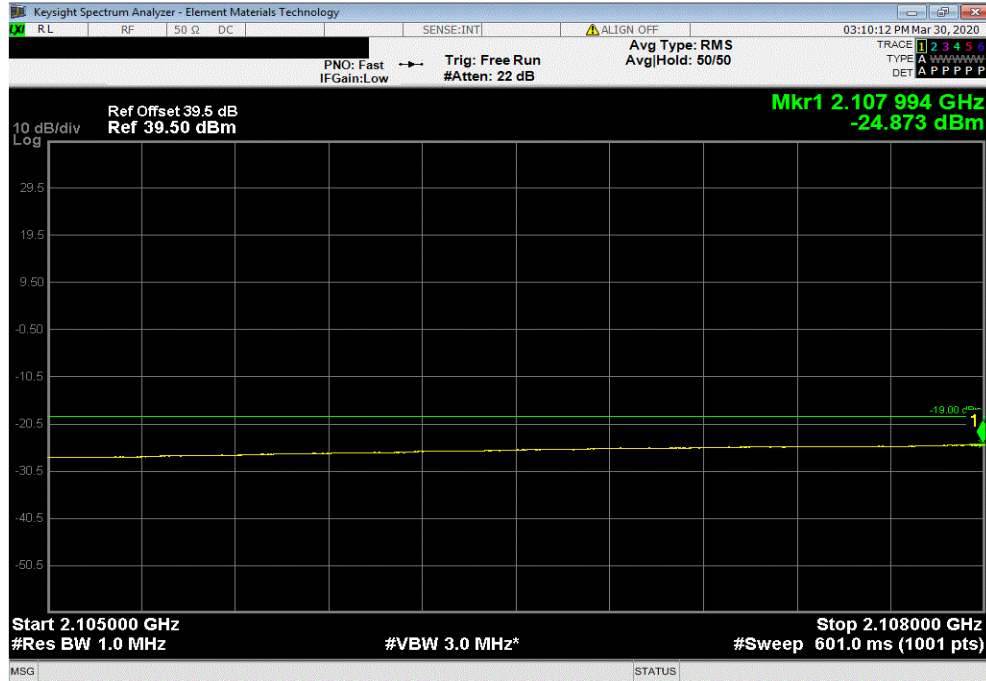
BAND EDGE BAND 66a



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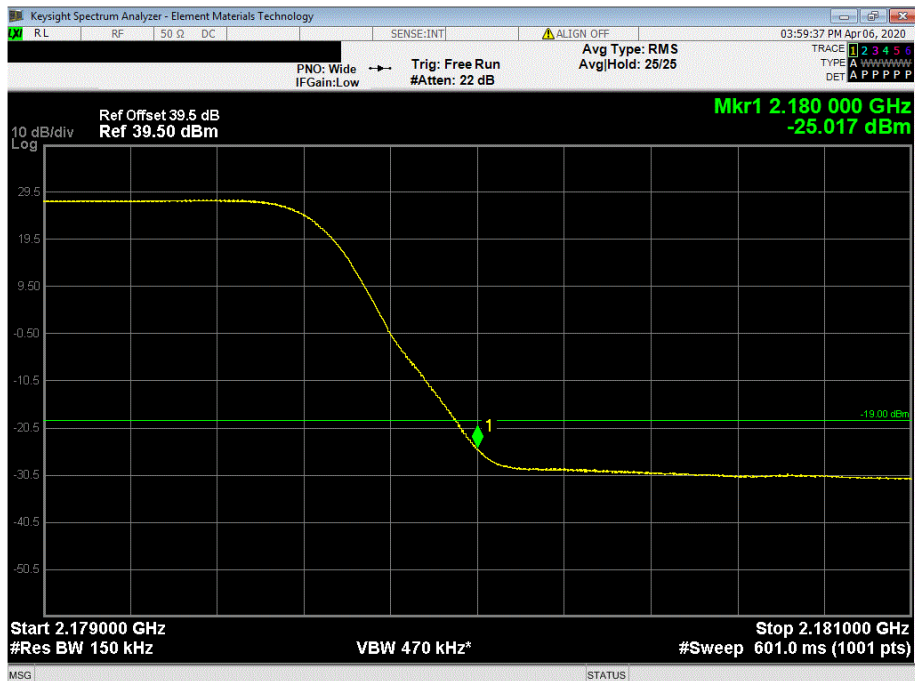
5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, QPSK Modulation, Low Channel 2117.5 MHz, Frequency Range 3

				Value (dBm)	Limit (dBm)	Result
				-24.873	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, QPSK Modulation, High Channel 2172.5 MHz, Frequency Range 1

				Value (dBm)	Limit (dBm)	Result
				-25.017	-19	Pass

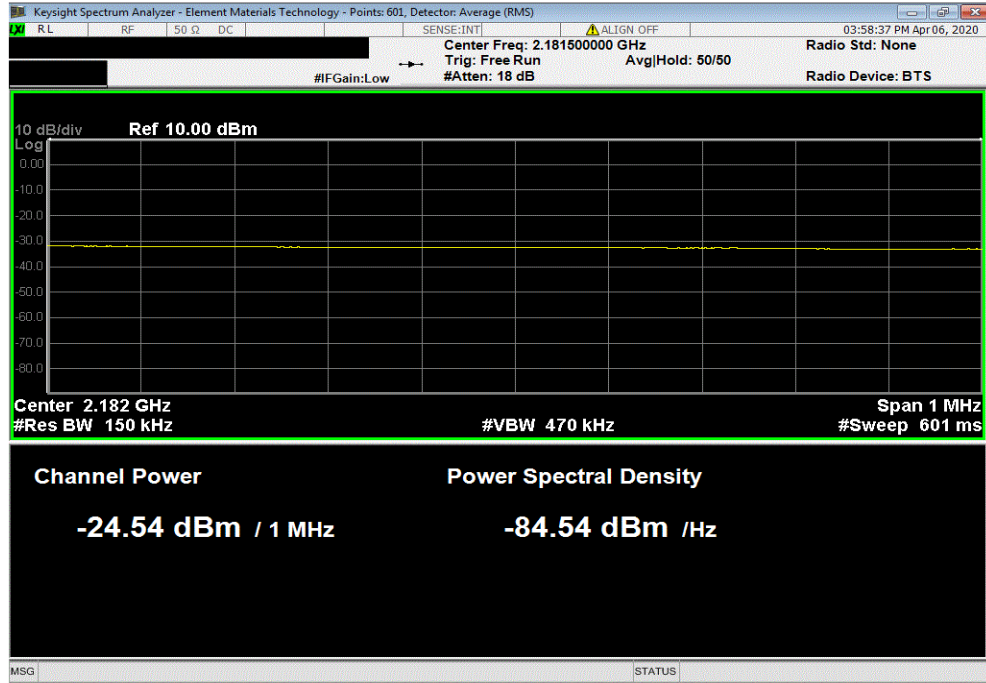


BAND EDGE BAND 66a

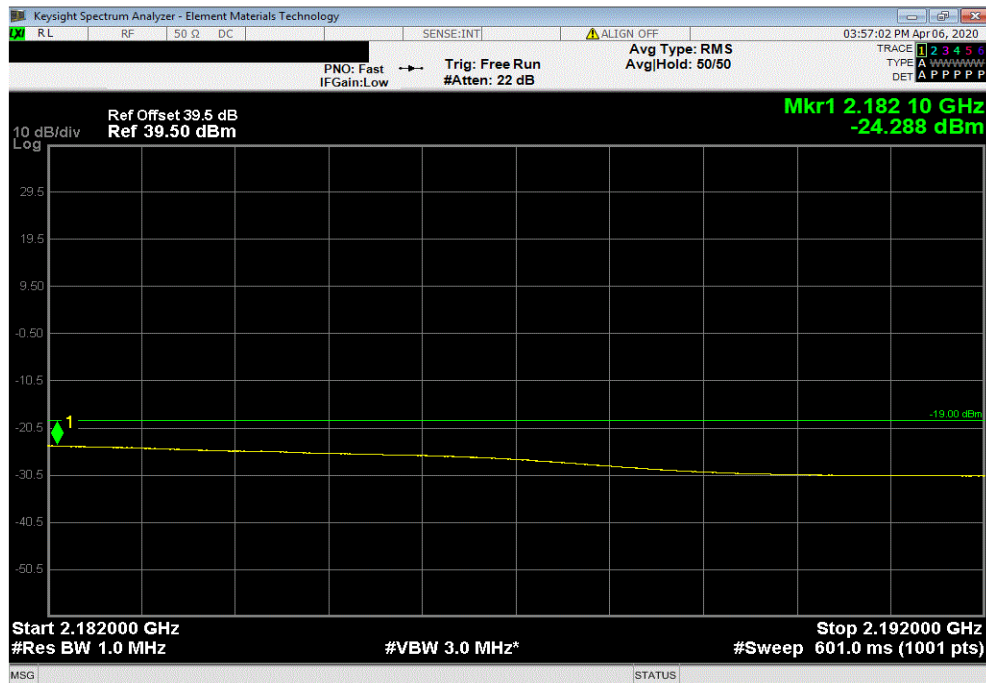


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, QPSK Modulation, High Channel 2172.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.54	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, QPSK Modulation, High Channel 2172.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-24.288	-19	Pass

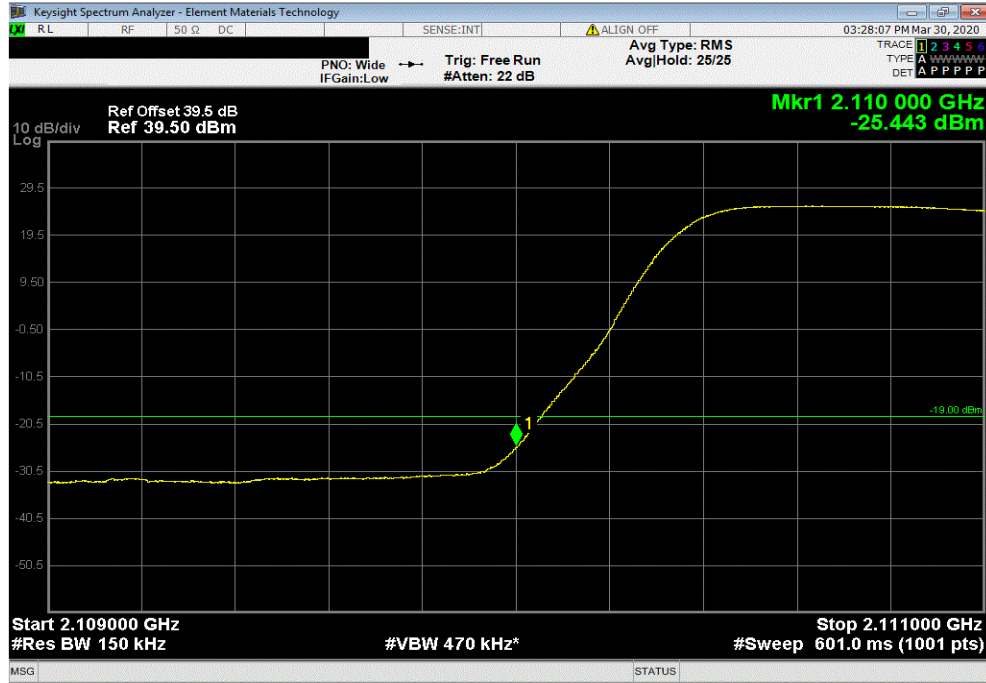


BAND EDGE BAND 66a

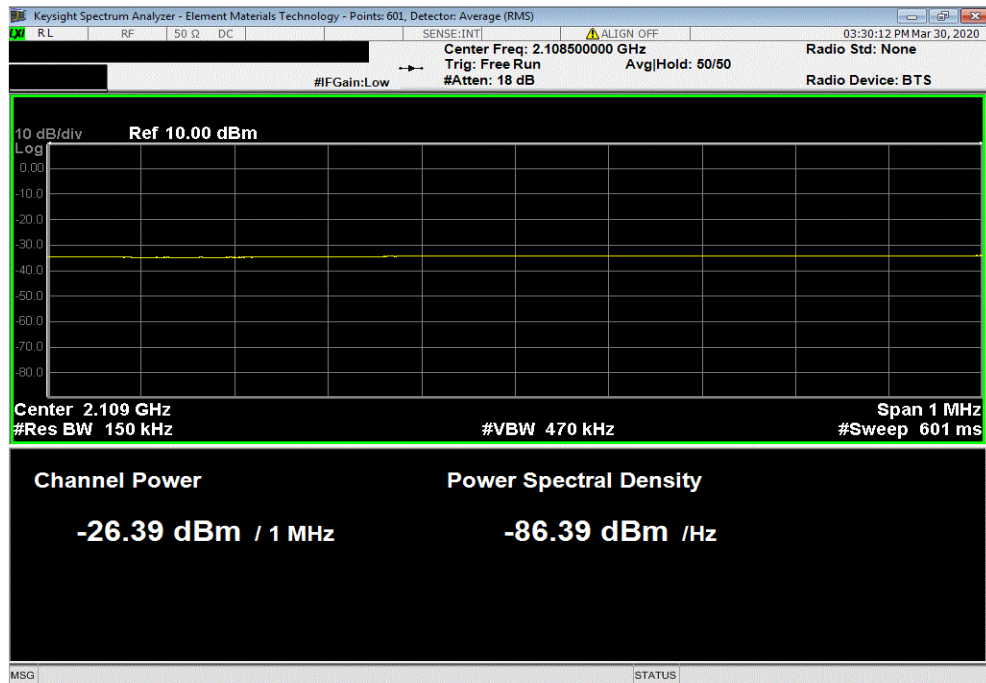


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 2117.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-25.443	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 2117.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-26.39	-19	Pass

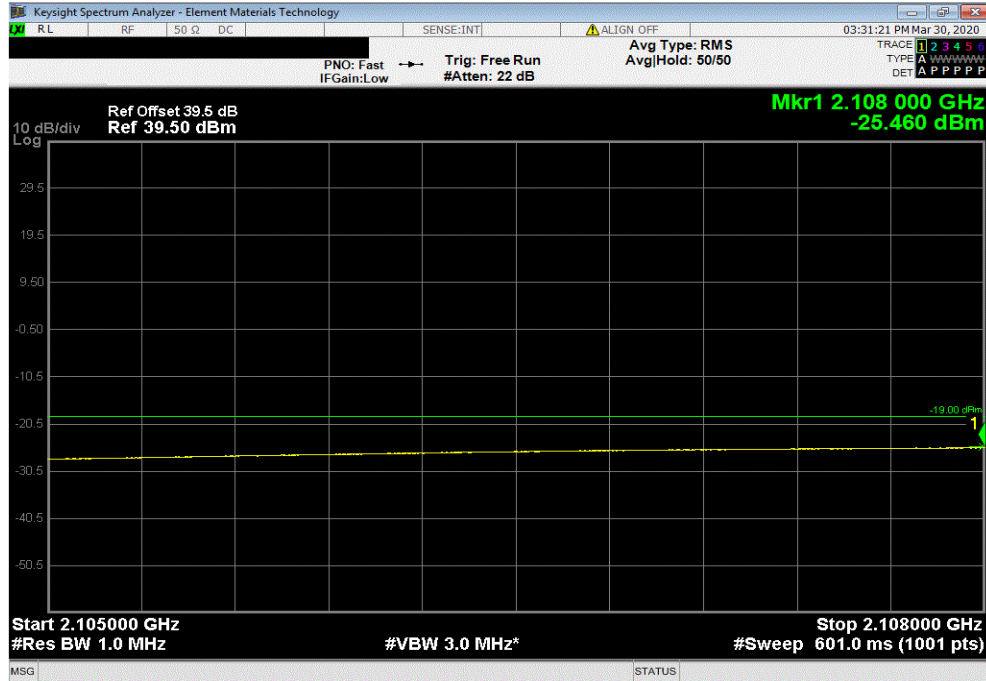


BAND EDGE BAND 66a

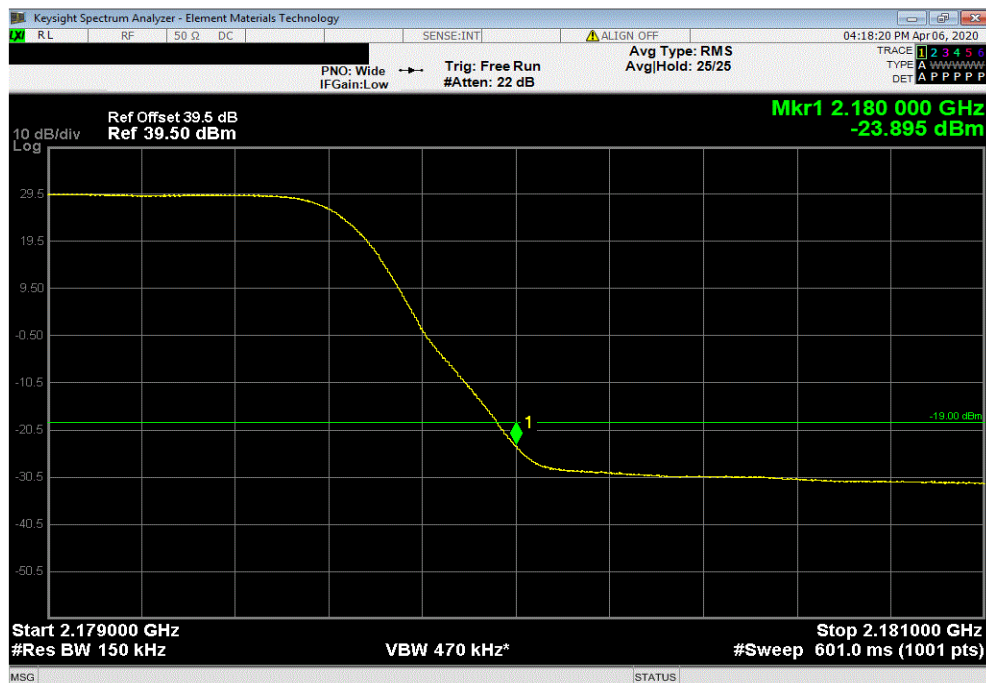


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 2117.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-25.46	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 2172.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-23.895	-19	Pass

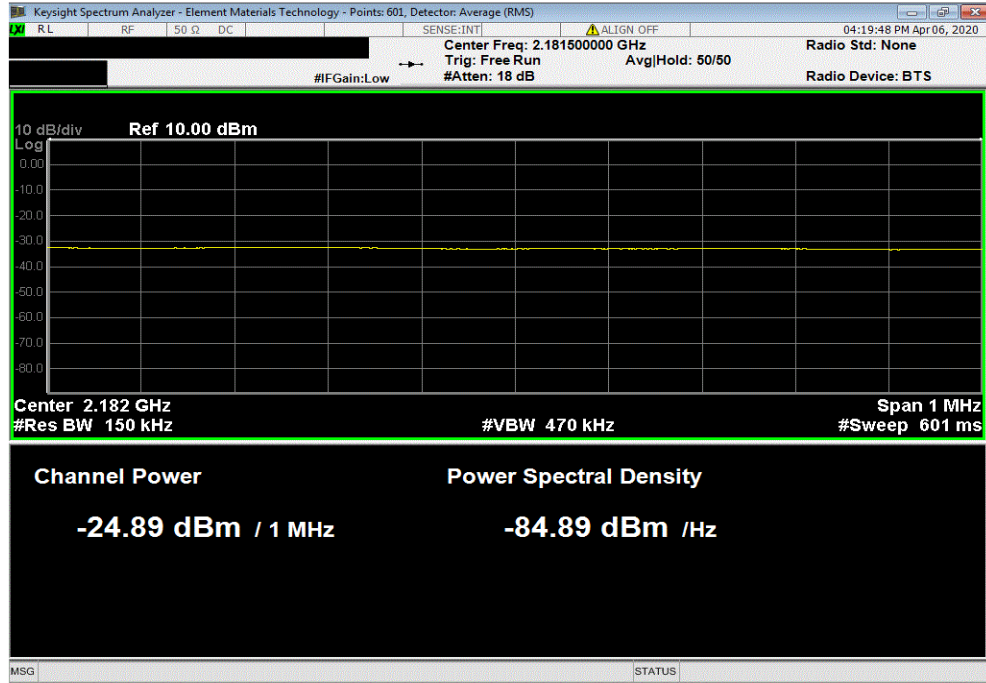


BAND EDGE BAND 66a

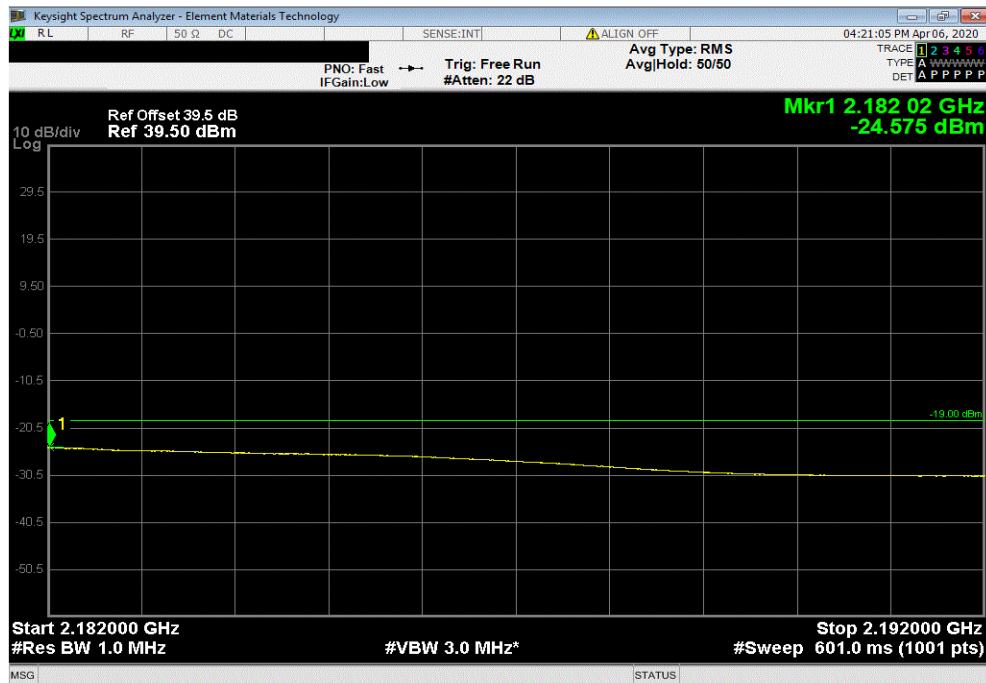


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 2172.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.89	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 2172.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-24.575	-19	Pass

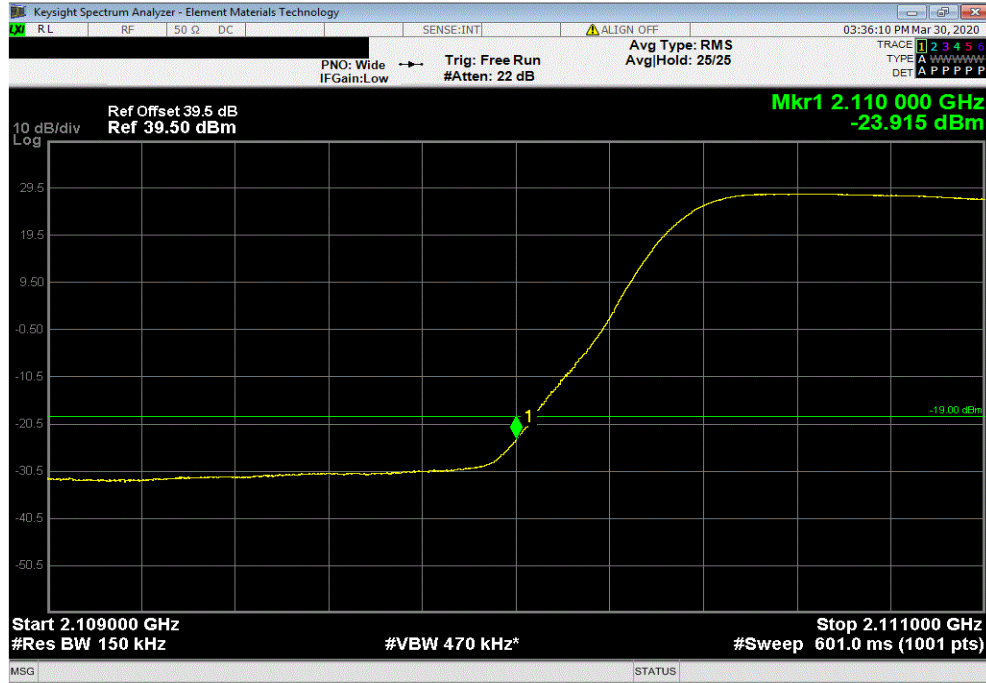


BAND EDGE BAND 66a

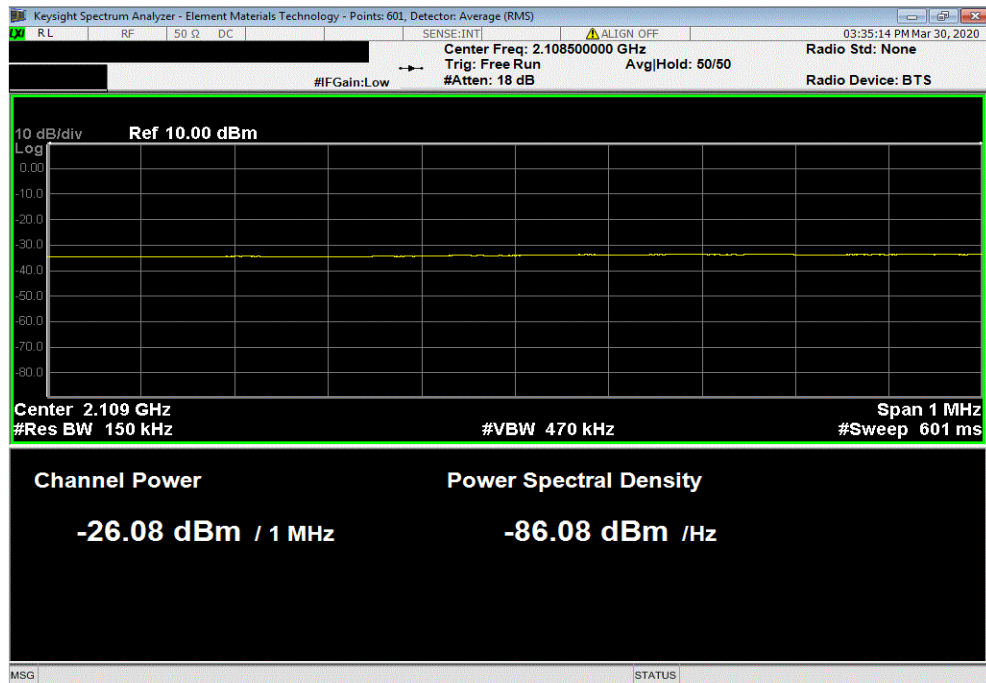


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 2117.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-23.915	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 2117.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-26.08	-19	Pass

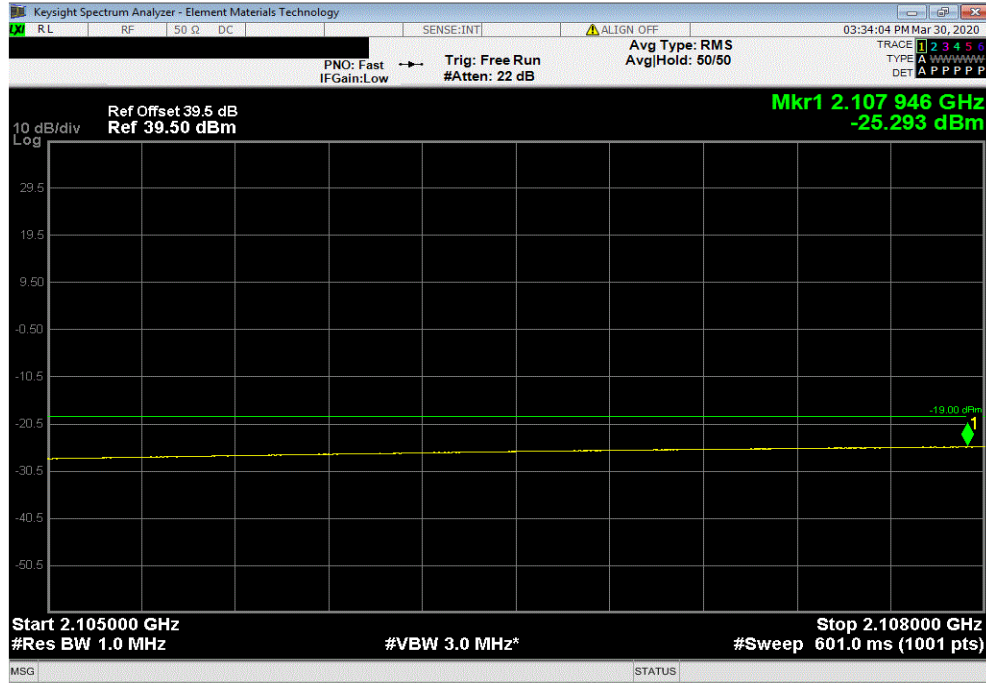


BAND EDGE BAND 66a

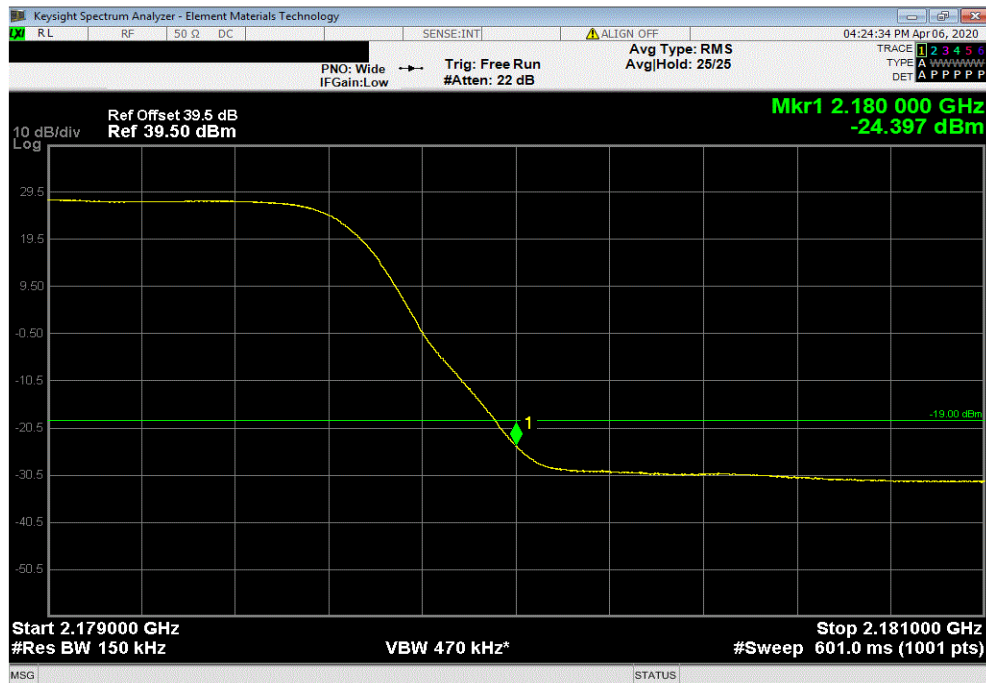


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 2117.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-25.293	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 2172.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.397	-19	Pass

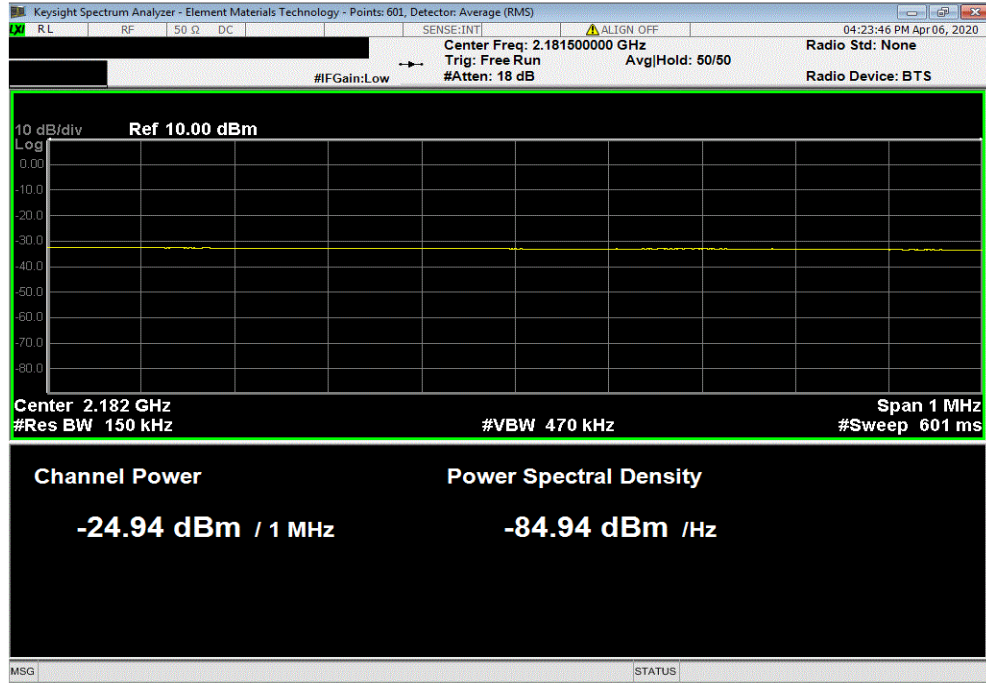


BAND EDGE BAND 66a

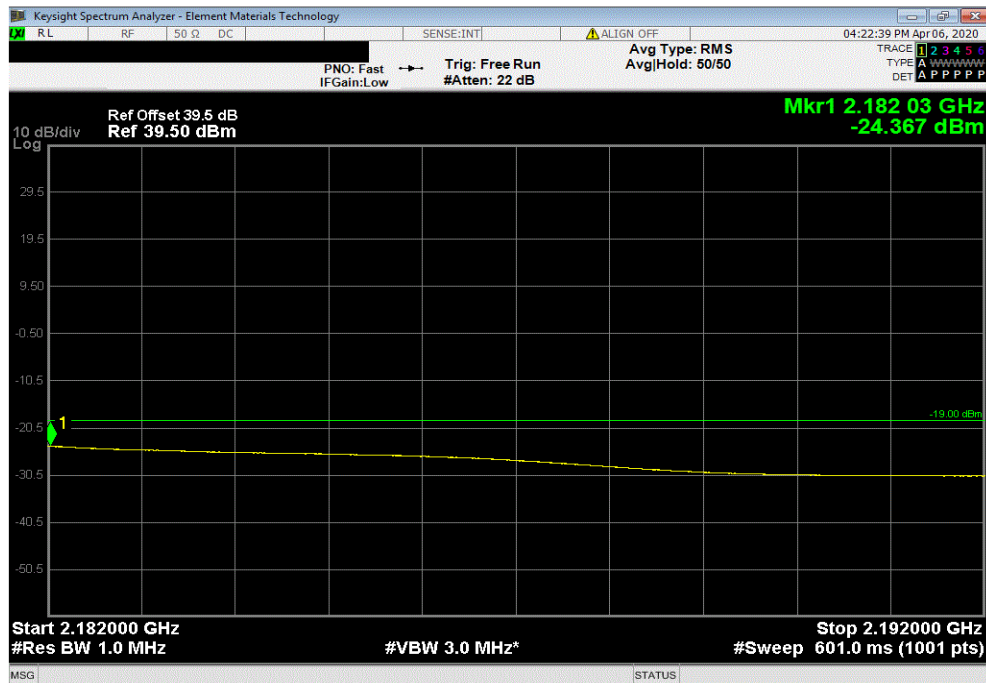


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 2172.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.94	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 2172.5 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-24.367	-19	Pass

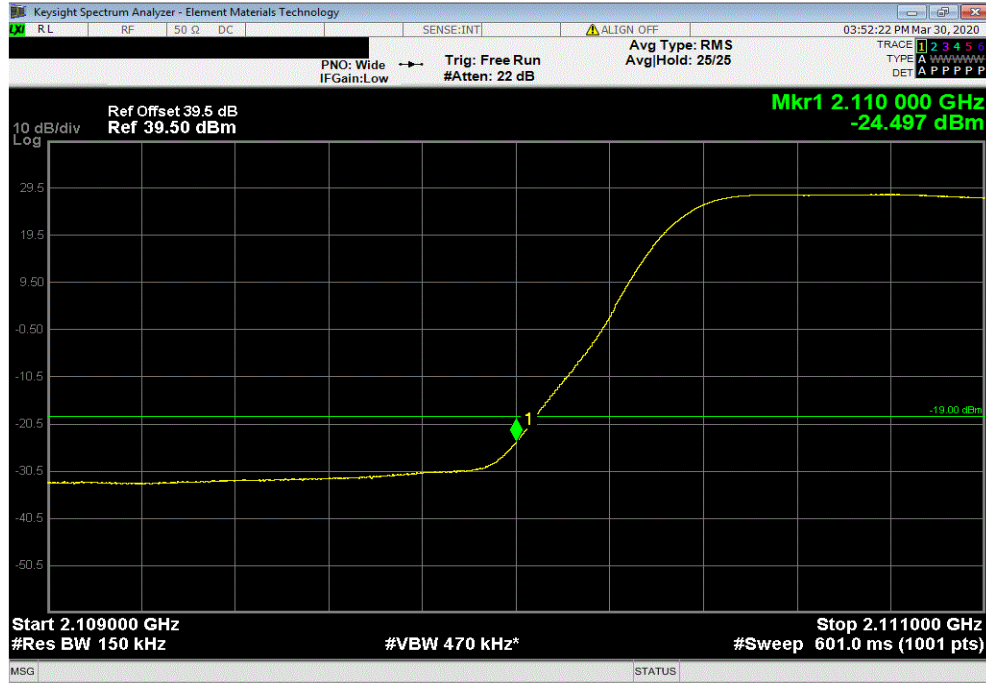


BAND EDGE BAND 66a

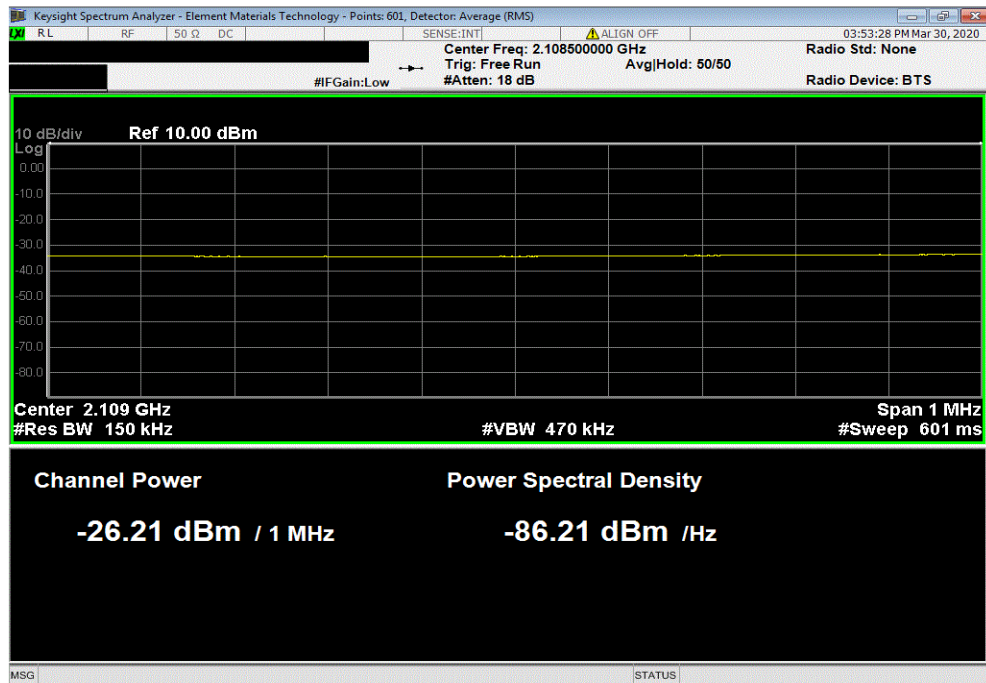


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 2117.5 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.497	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 2117.5 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-26.21	-19	Pass



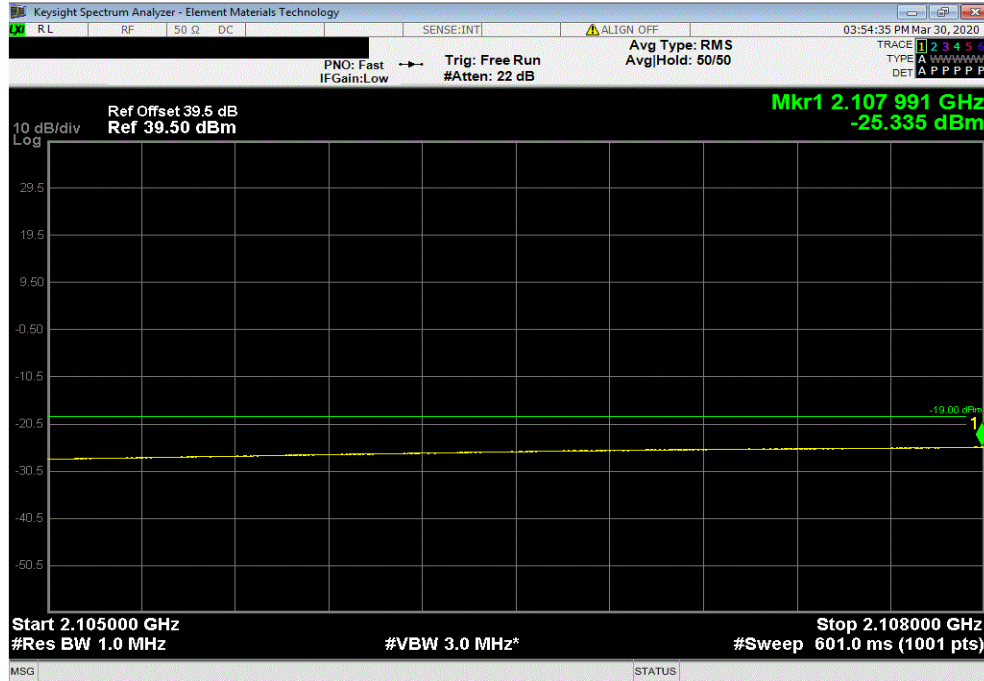
BAND EDGE BAND 66a



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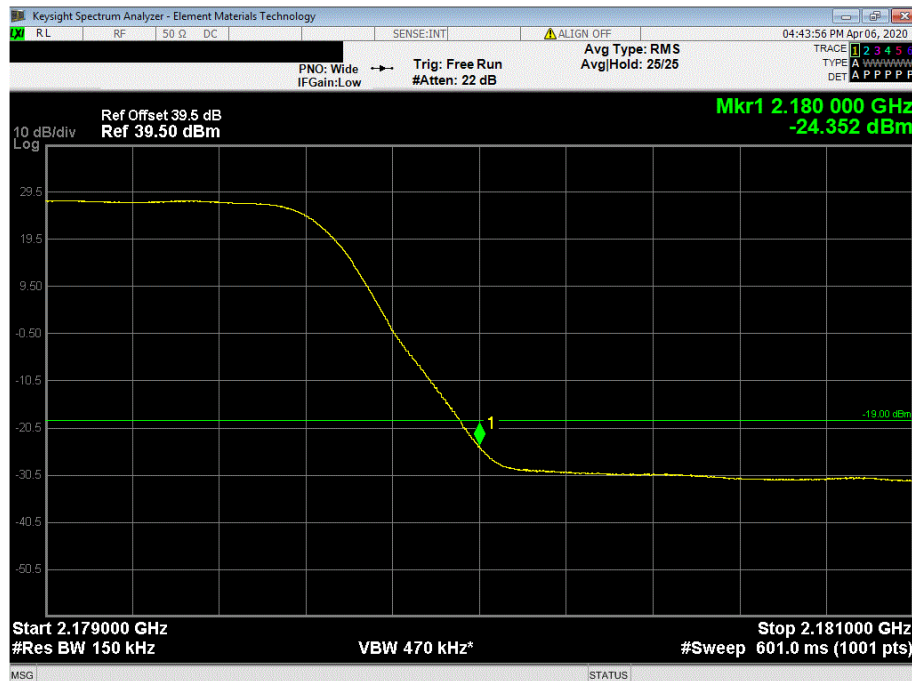
5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 2117.5 MHz, Frequency Range 3

				Value (dBm)	Limit (dBm)	Result
				-25.335	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 2172.5 MHz, Frequency Range 1

				Value (dBm)	Limit (dBm)	Result
				-24.352	-19	Pass



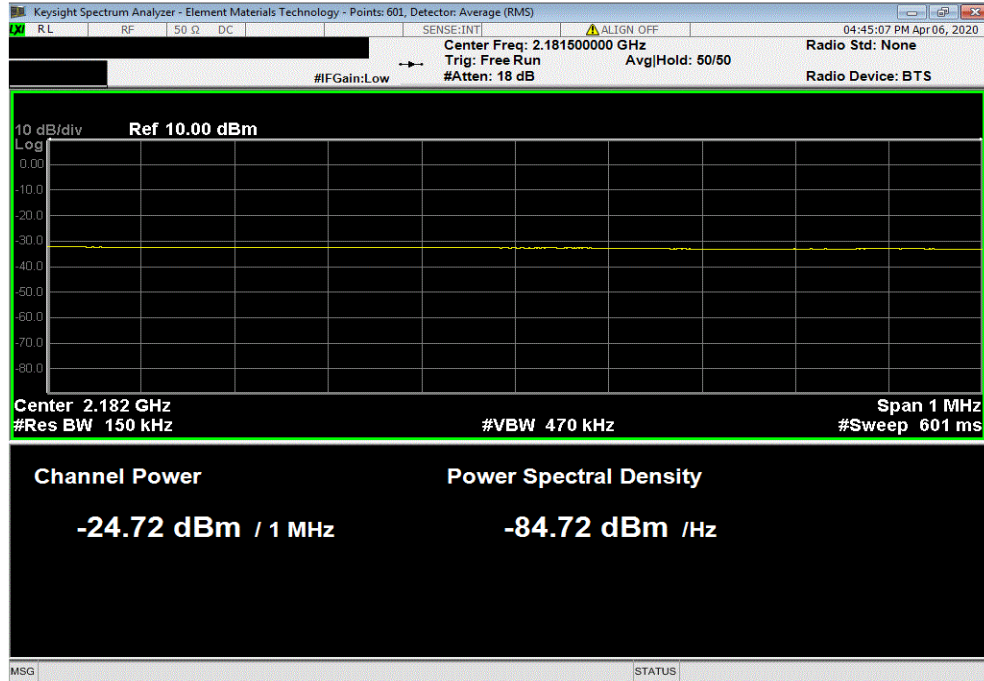
BAND EDGE BAND 66a



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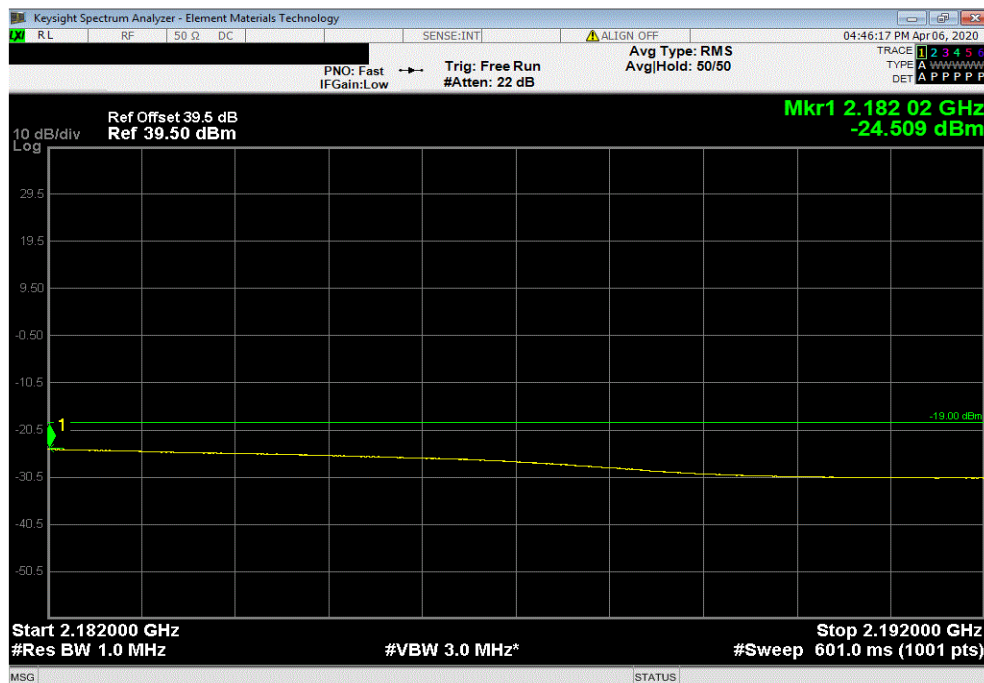
5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 2172.5 MHz, Frequency Range 2

				Value (dBm)	Limit (dBm)	Result
				-24.72	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 2172.5 MHz, Frequency Range 3

				Value (dBm)	Limit (dBm)	Result
				-24.509	-19	Pass

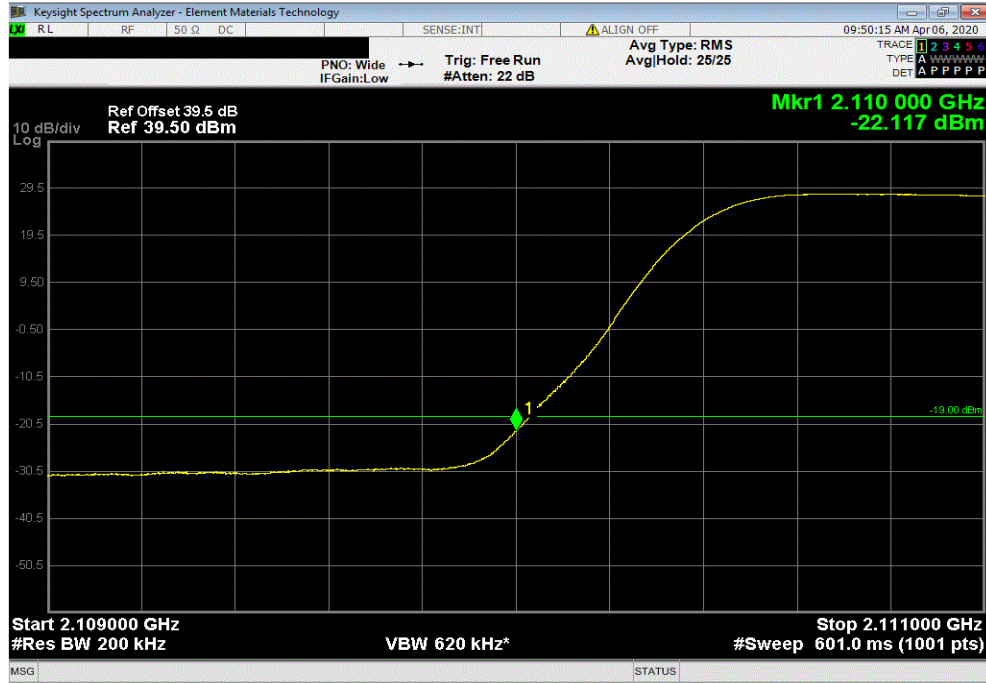


BAND EDGE BAND 66a

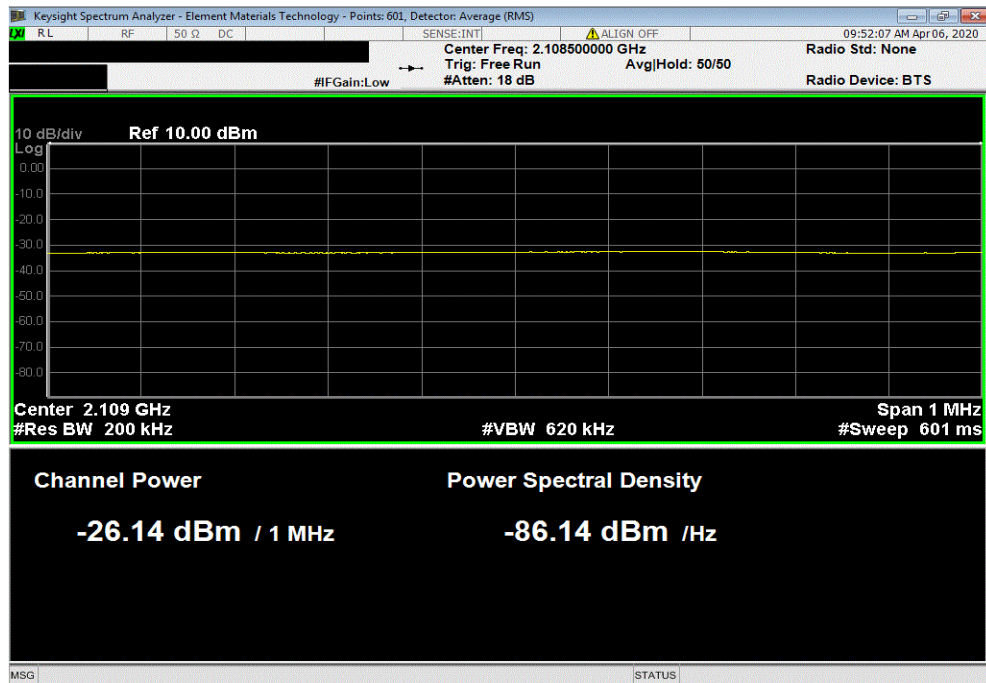


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, QPSK Modulation, Low Channel 2120 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-22.117	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, QPSK Modulation, Low Channel 2120 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-26.14	-19	Pass



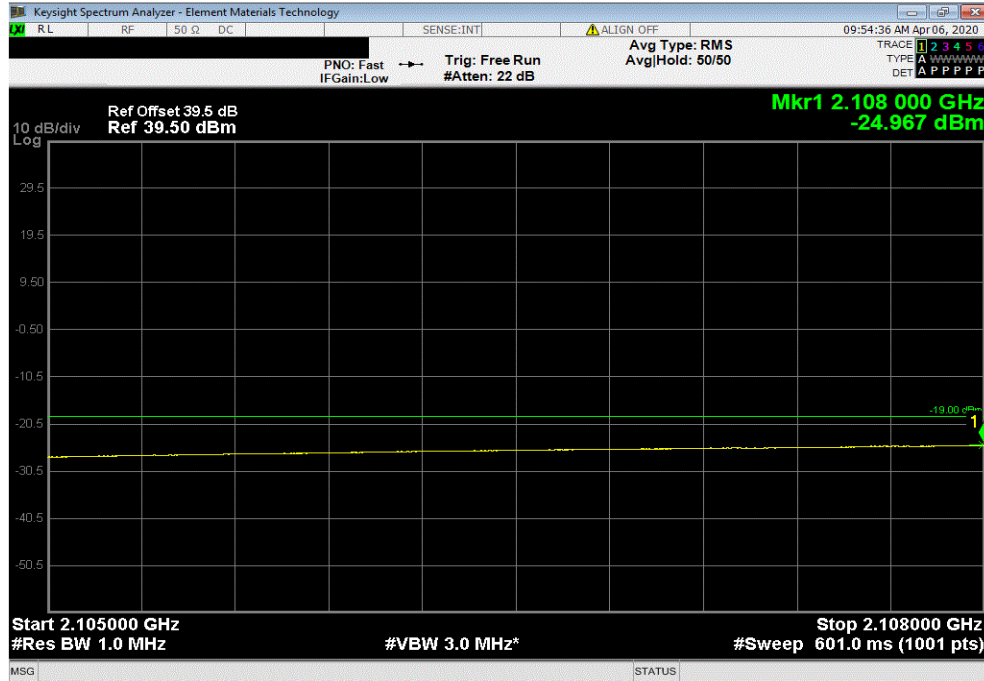
BAND EDGE BAND 66a



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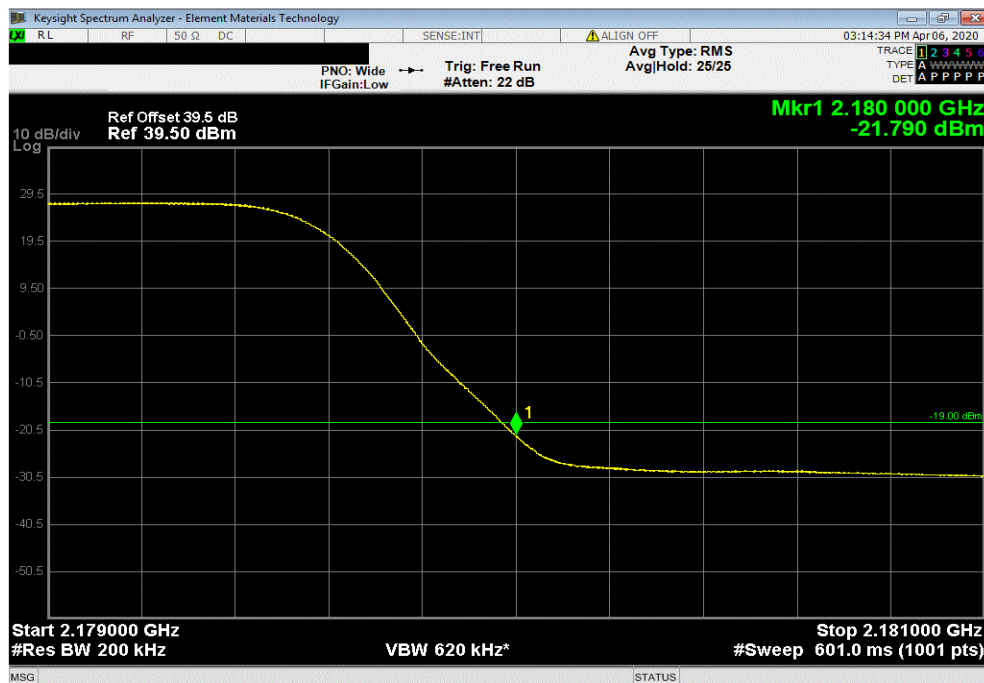
5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, QPSK Modulation, Low Channel 2120 MHz, Frequency Range 3

				Value (dBm)	Limit (dBm)	Result
				-24.967	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, QPSK Modulation, High Channel 2170 MHz, Frequency Range 1

				Value (dBm)	Limit (dBm)	Result
				-21.79	-19	Pass



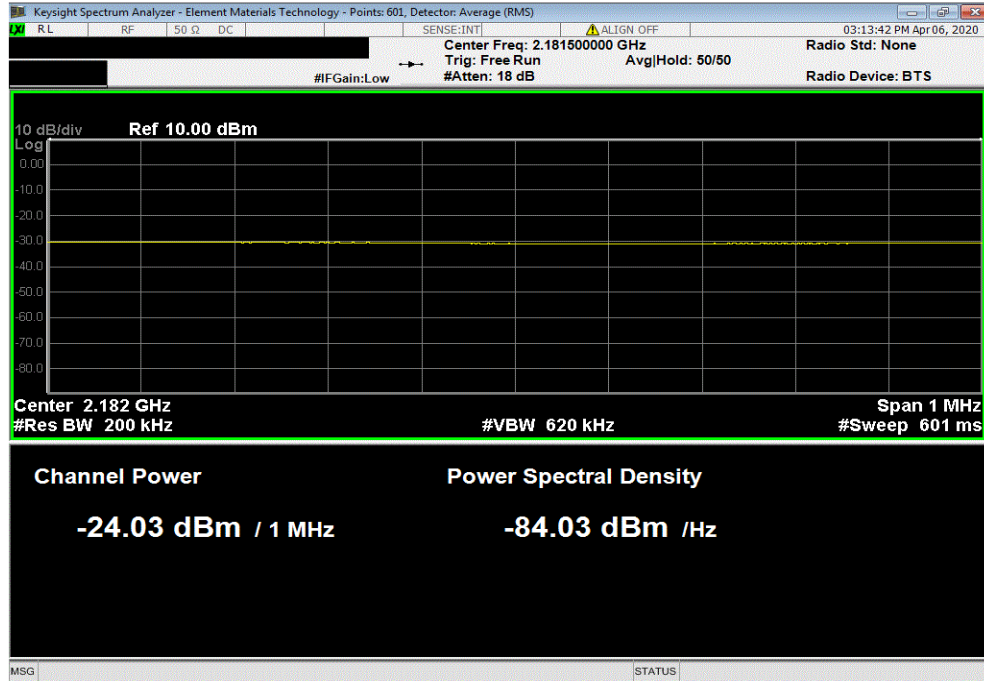
BAND EDGE BAND 66a



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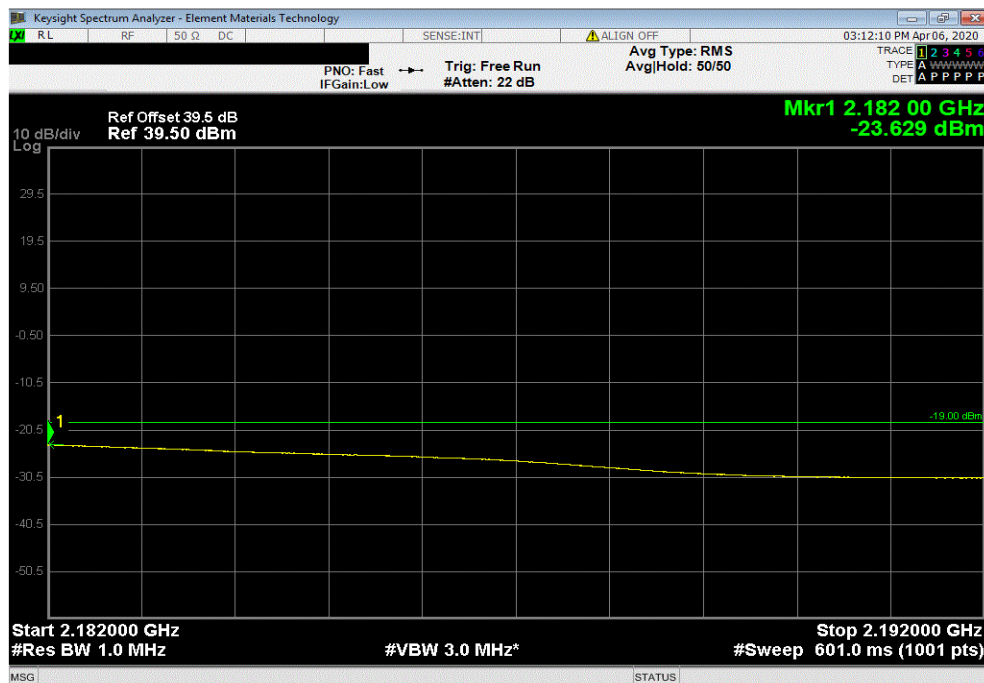
5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, QPSK Modulation, High Channel 2170 MHz, Frequency Range 2

				Value (dBm)	Limit (dBm)	Result
				-24.03	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, QPSK Modulation, High Channel 2170 MHz, Frequency Range 3

				Value (dBm)	Limit (dBm)	Result
				-23.629	-19	Pass

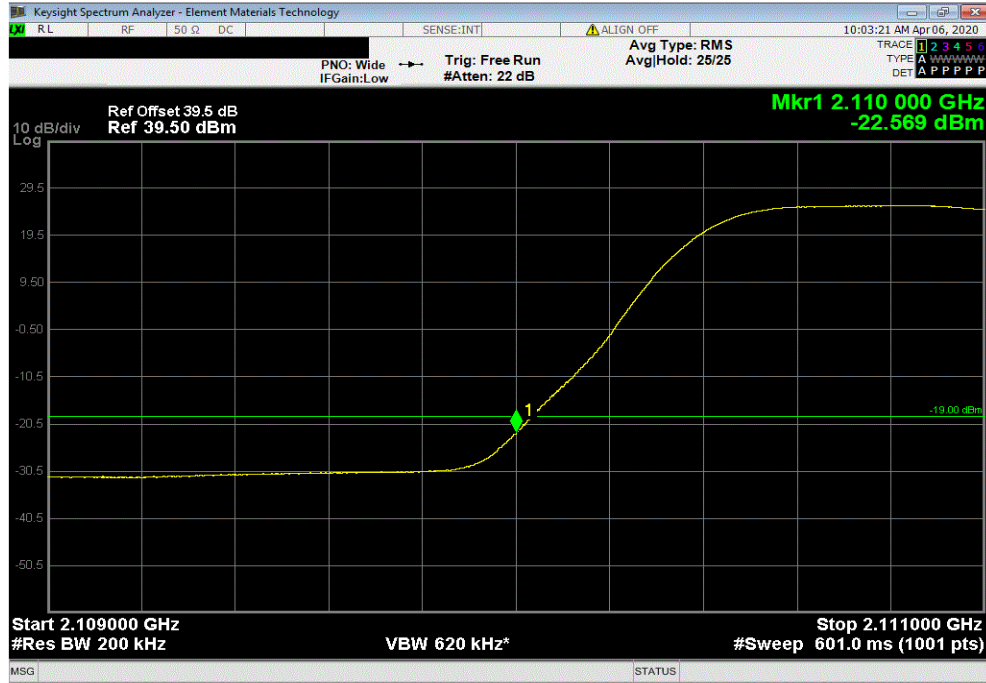


BAND EDGE BAND 66a

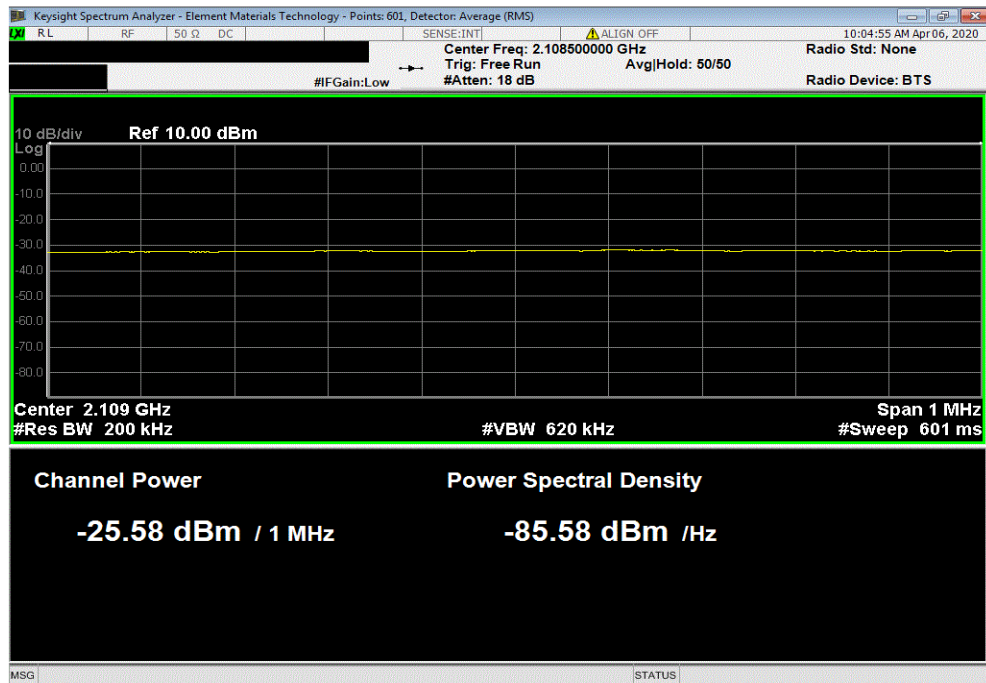


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 2120 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-22.569	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 2120 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-25.58	-19	Pass



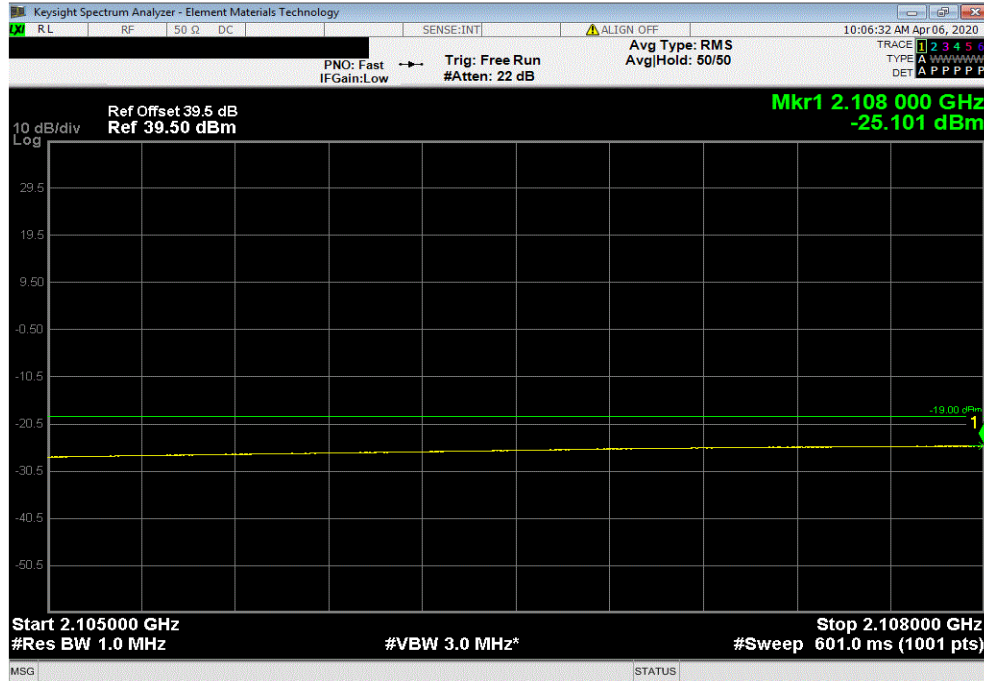
BAND EDGE BAND 66a



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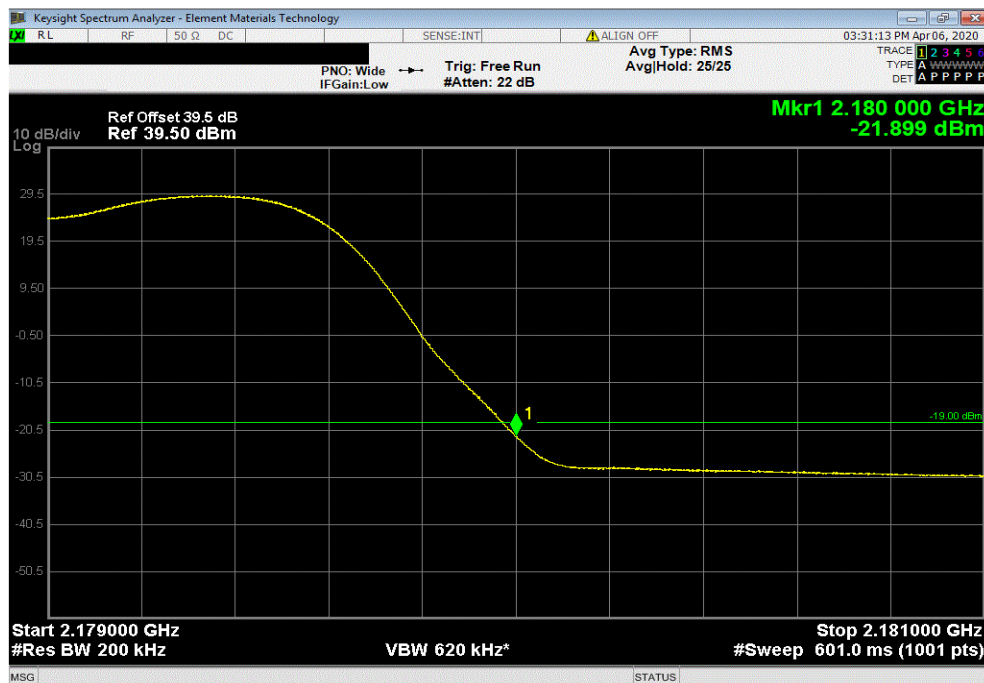
5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 2120 MHz, Frequency Range 3

				Value (dBm)	Limit (dBm)	Result
				-25.101	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 2170 MHz, Frequency Range 1

				Value (dBm)	Limit (dBm)	Result
				-21.899	-19	Pass

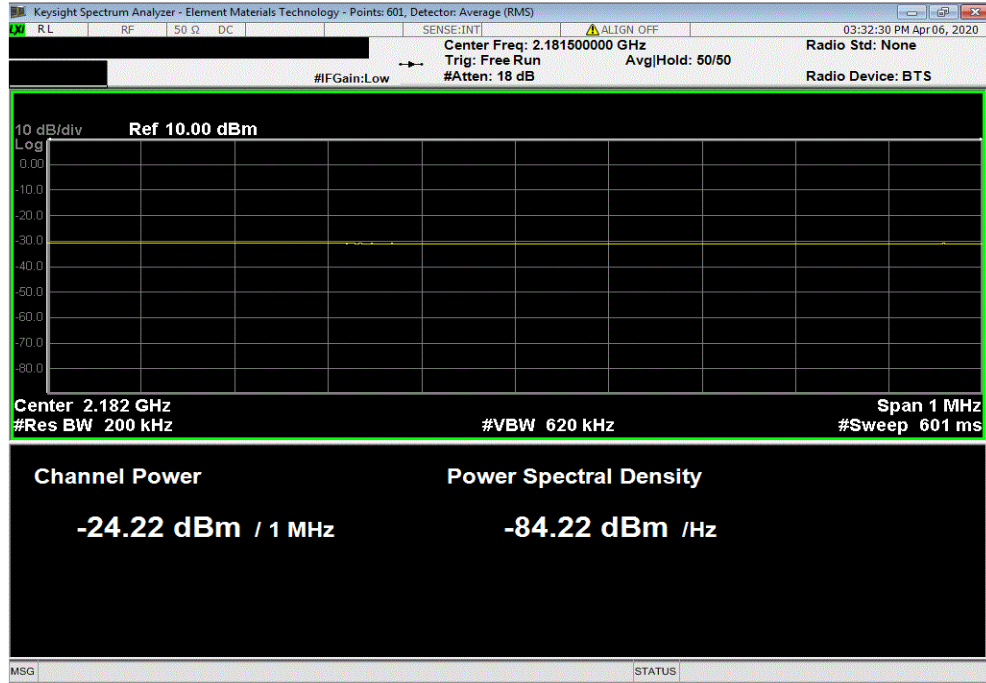


BAND EDGE BAND 66a

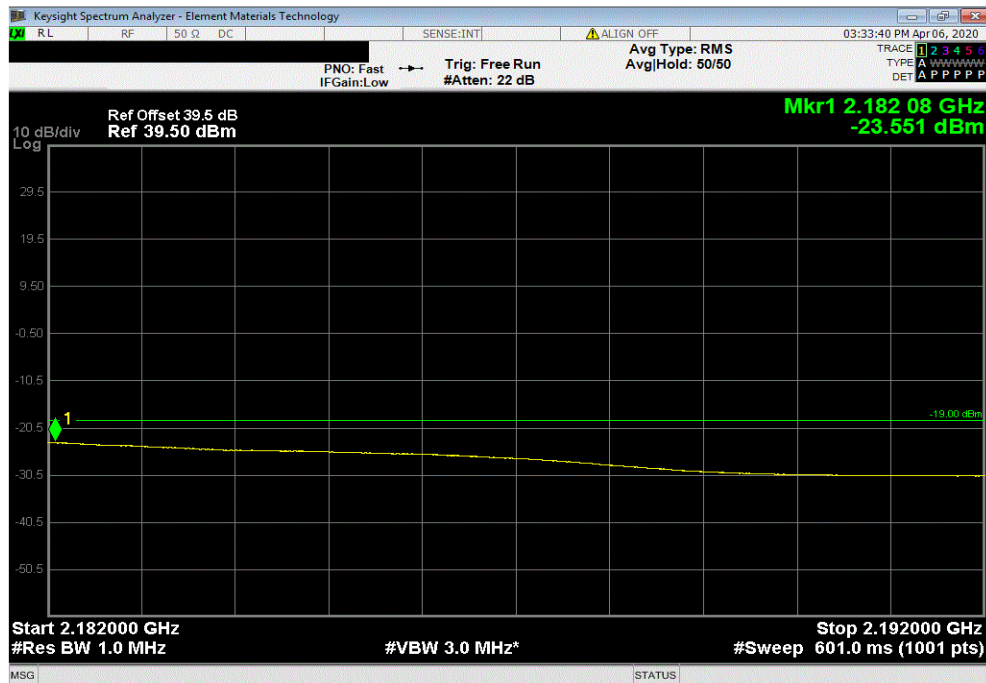


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 2170 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.22	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 2170 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.551	-19	Pass

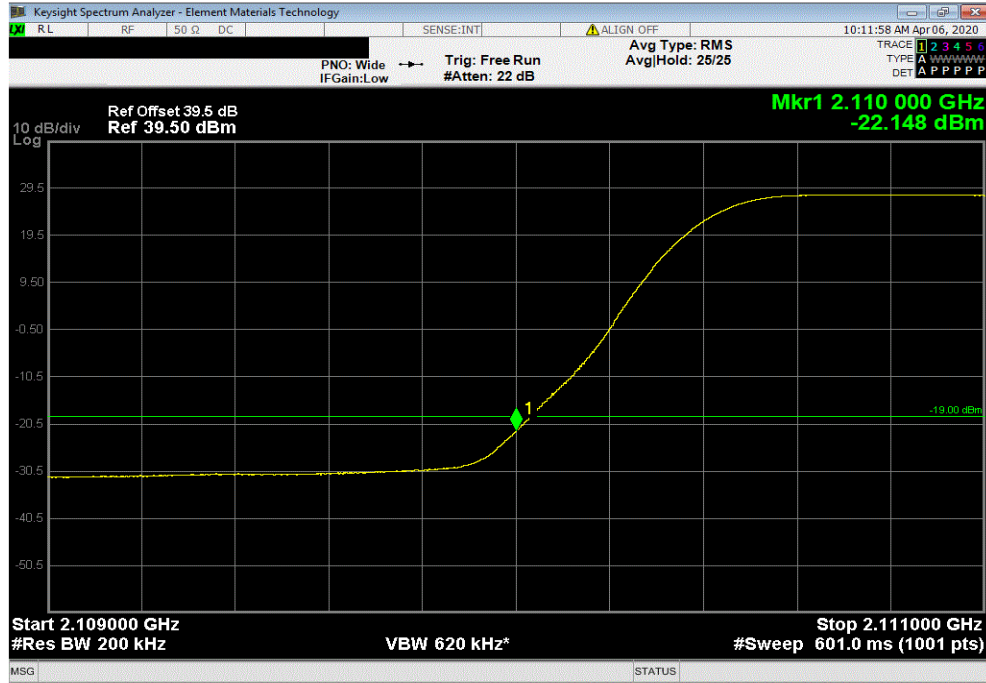


BAND EDGE BAND 66a

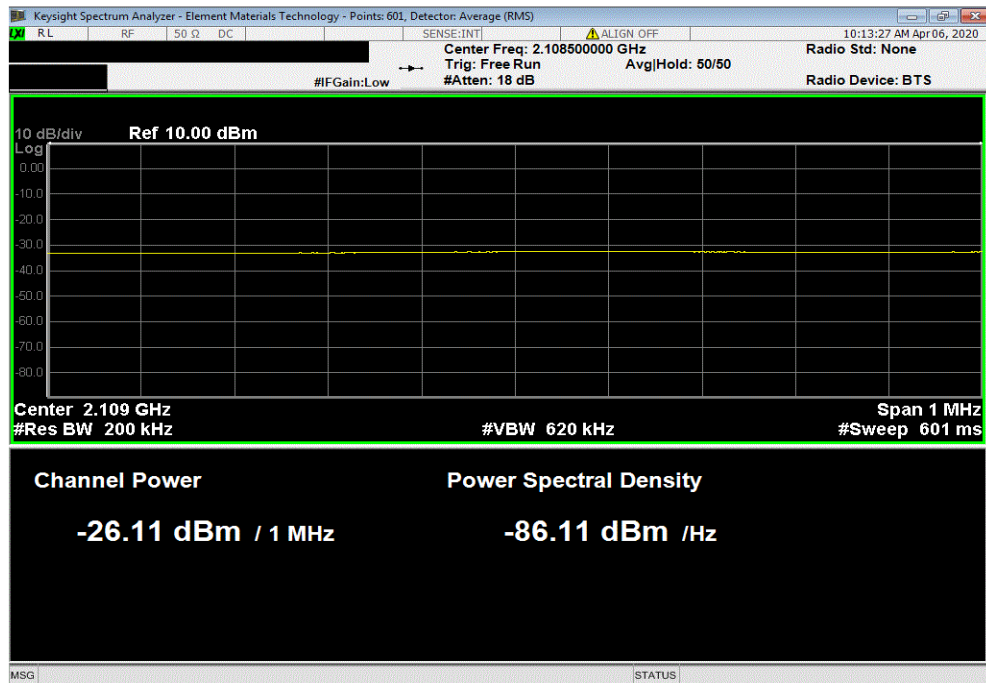


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 2120 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-22.148	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 2120 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-26.11	-19	Pass



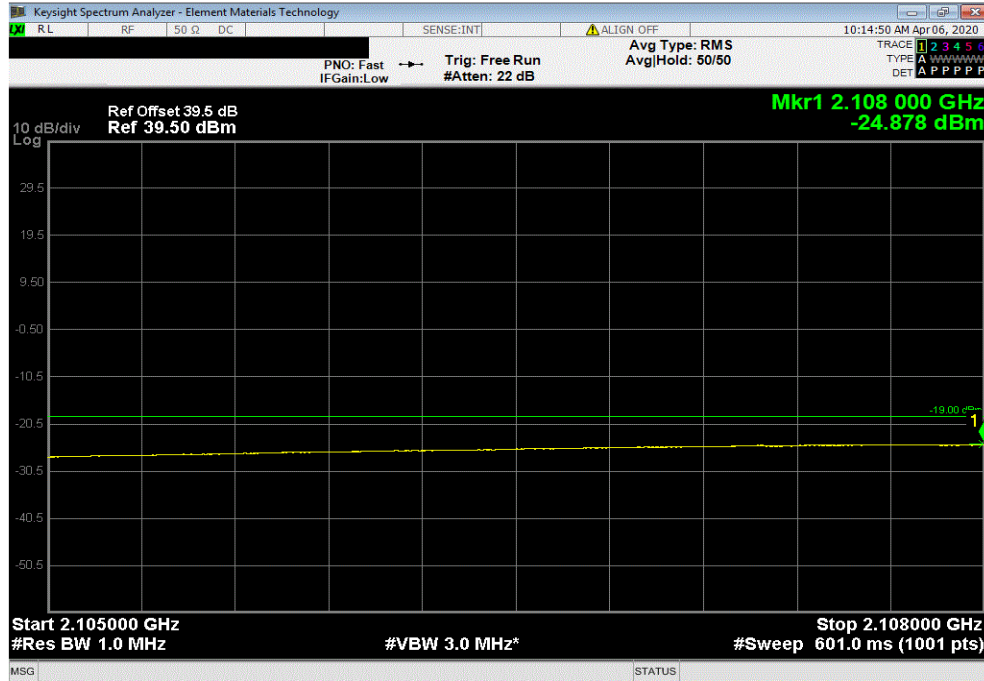
BAND EDGE BAND 66a



XMR 2020.03.25.0

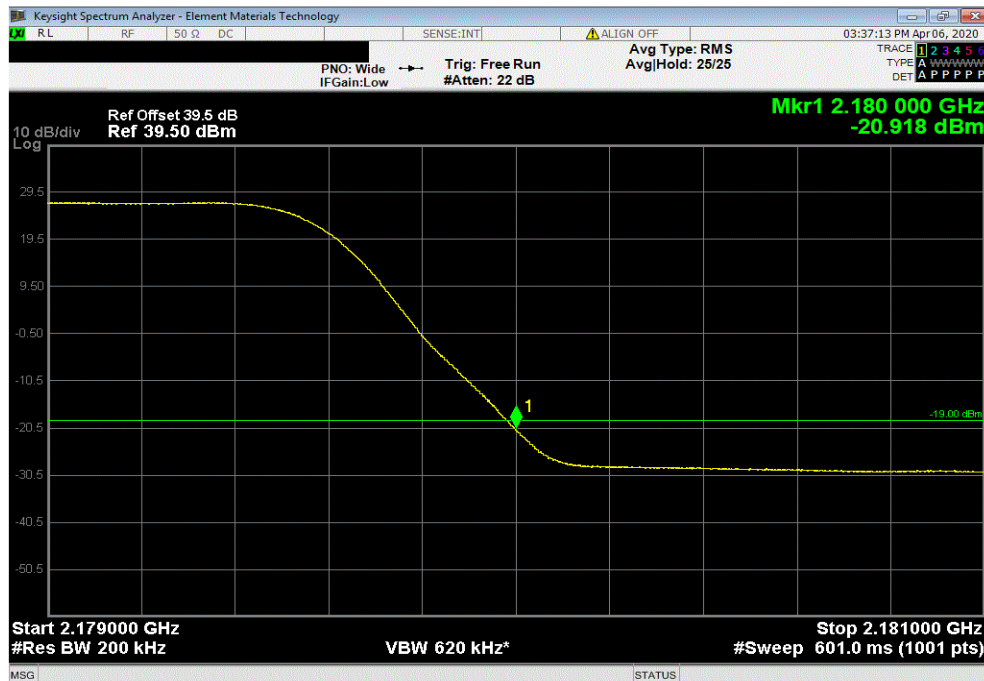
5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 2120 MHz, Frequency Range 3

				Value (dBm)	Limit (dBm)	Result
				-24.878	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 2170 MHz, Frequency Range 1

				Value (dBm)	Limit (dBm)	Result
				-20.918	-19	Pass

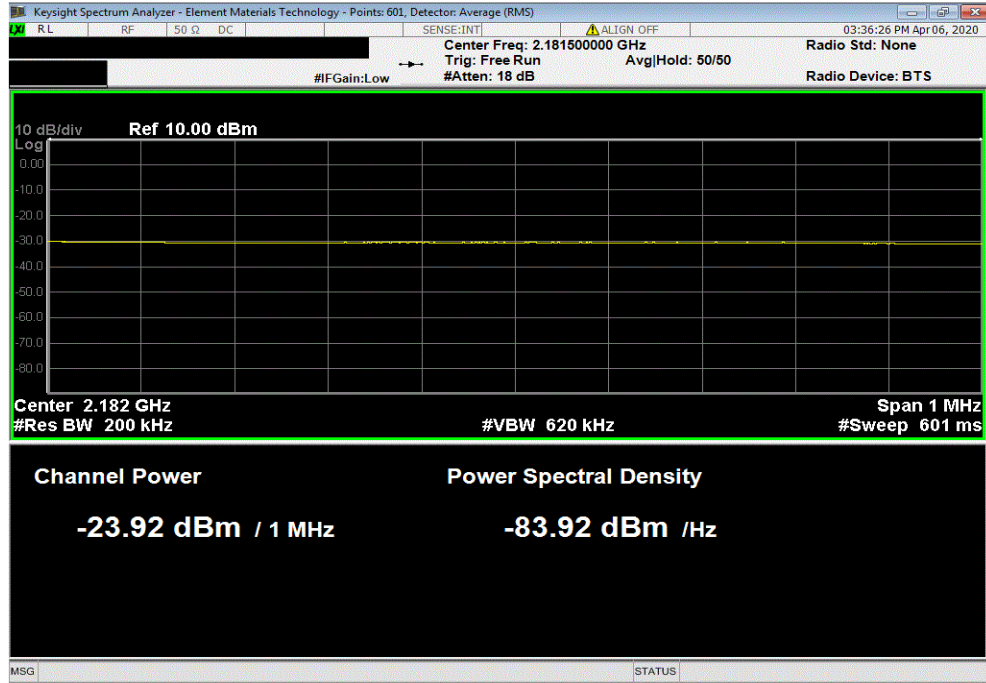


BAND EDGE BAND 66a

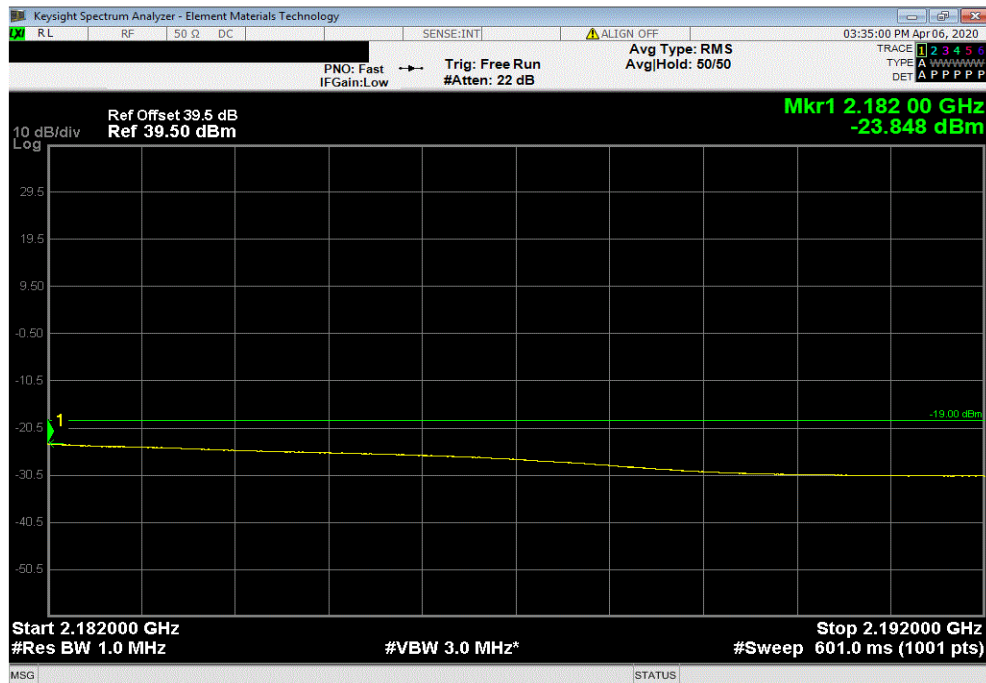


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 2170 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-23.92	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 2170 MHz, Frequency Range 3						
				Value (dBm)	Limit (dBm)	Result
				-23.848	-19	Pass

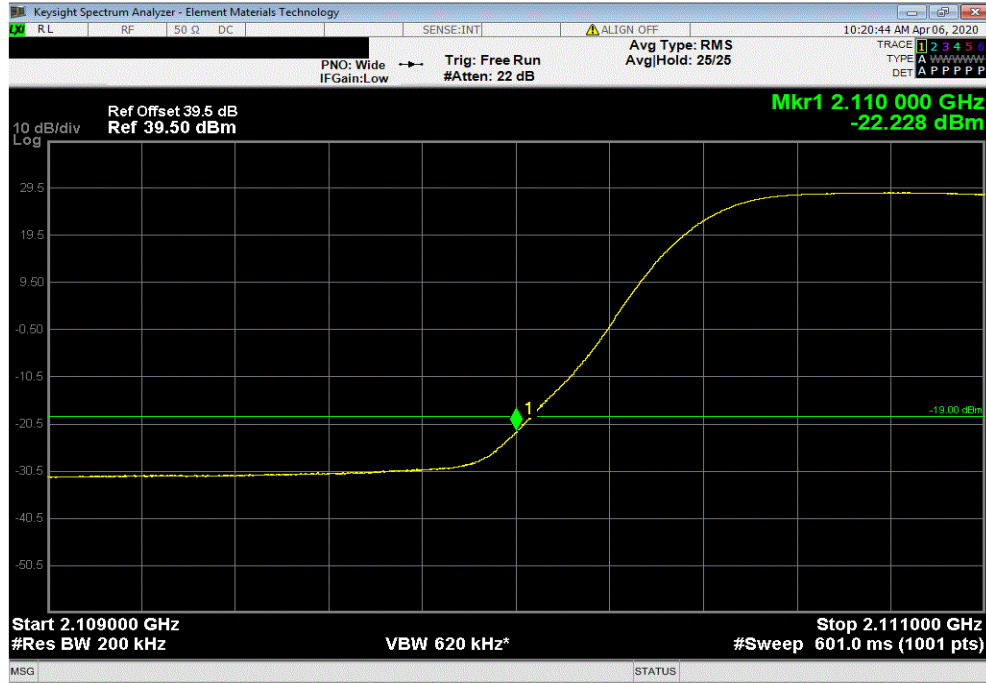


BAND EDGE BAND 66a

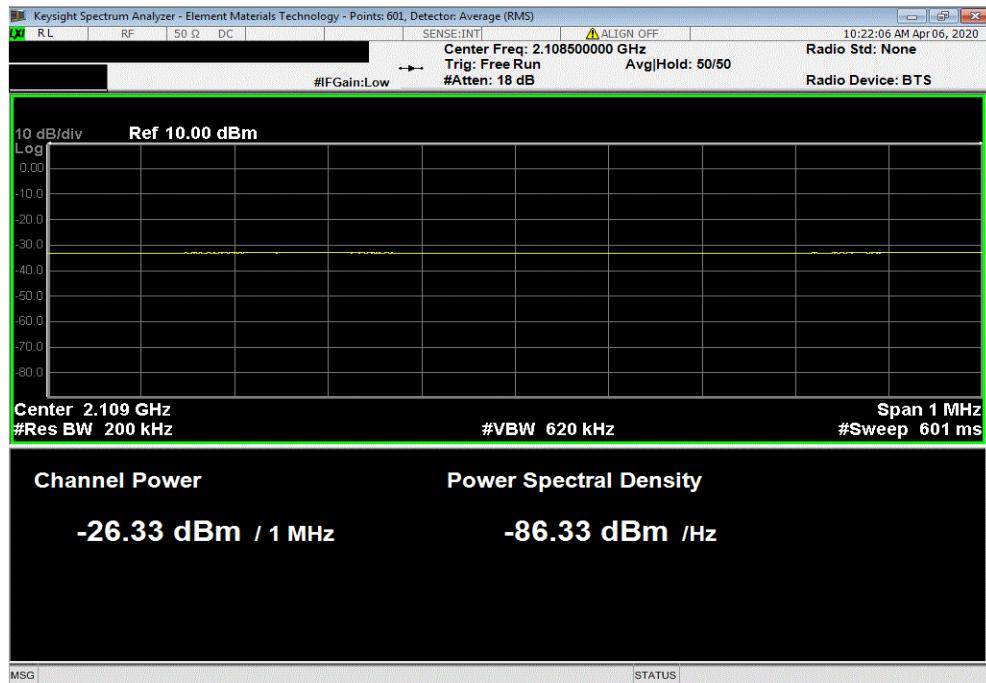


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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 2120 MHz, Frequency Range 1						
				Value (dBm)	Limit (dBm)	Result
				-22.228	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 2120 MHz, Frequency Range 2						
				Value (dBm)	Limit (dBm)	Result
				-26.33	-19	Pass



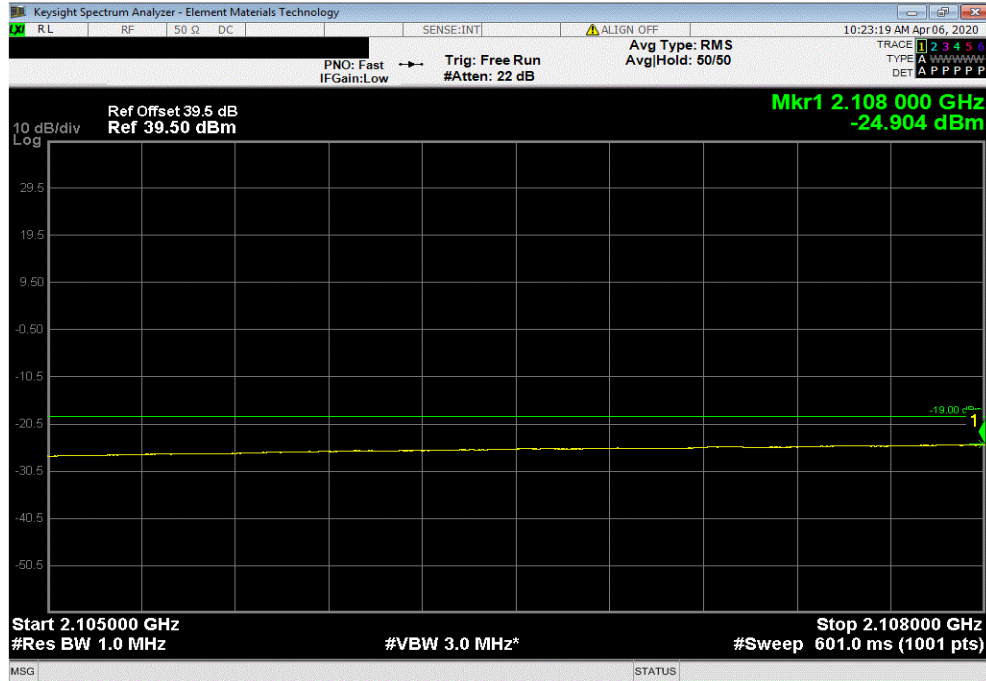
BAND EDGE BAND 66a



XMI 2020.03.25.0

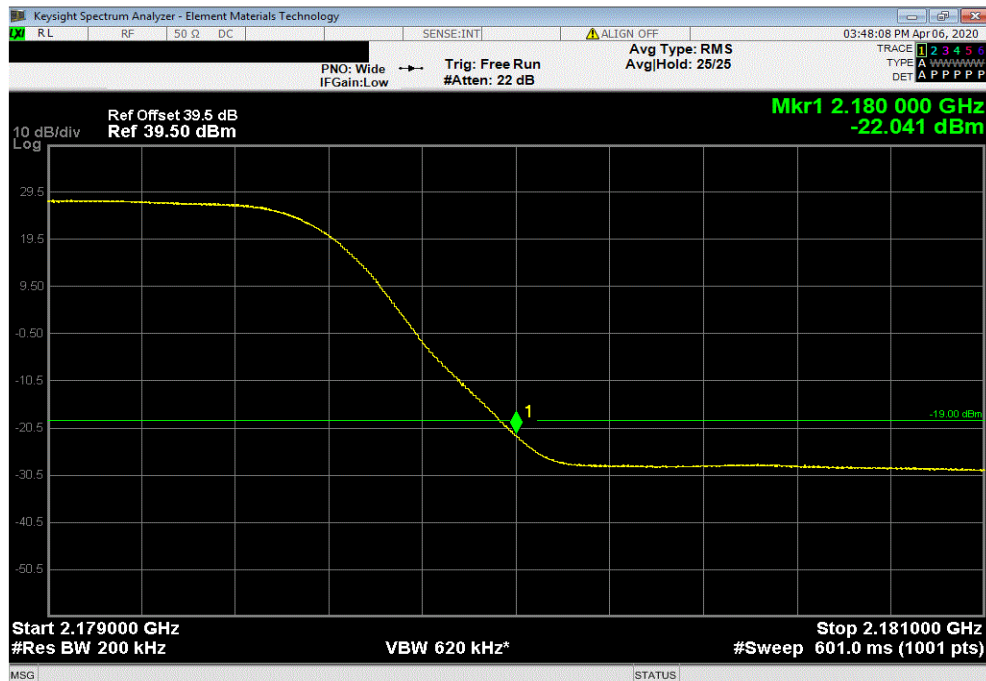
5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 2120 MHz, Frequency Range 3

				Value (dBm)	Limit (dBm)	Result
				-24.904	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 2170 MHz, Frequency Range 1

				Value (dBm)	Limit (dBm)	Result
				-22.041	-19	Pass



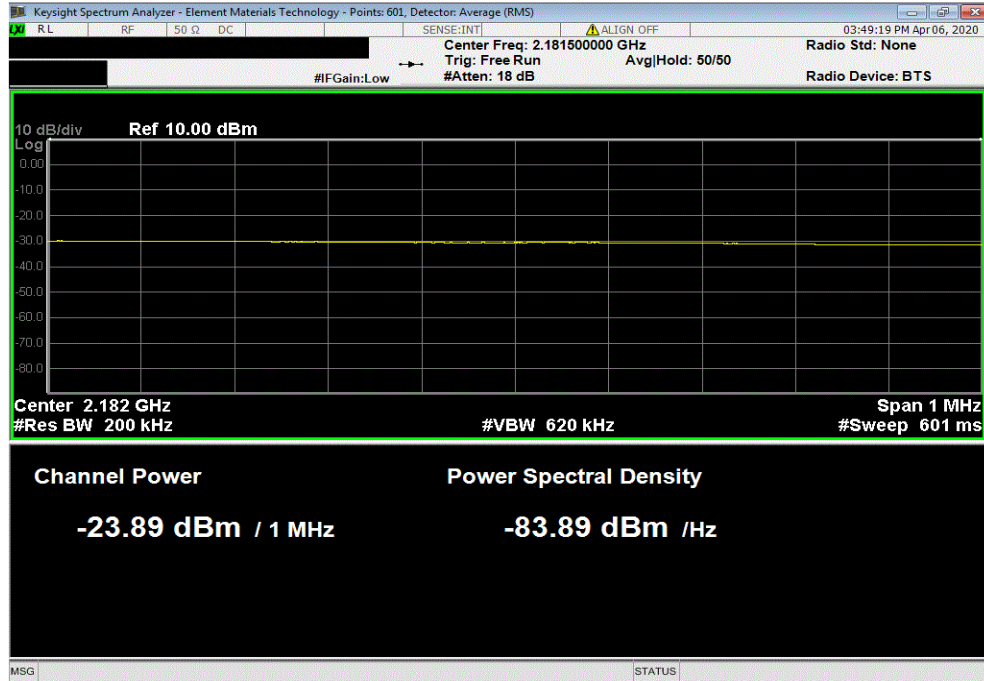
BAND EDGE BAND 66a



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5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 2170 MHz, Frequency Range 2

				Value (dBm)	Limit (dBm)	Result
				-23.89	-19	Pass



5G Band 66a, 2110 MHz - 2180 MHz, Port 3, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 2170 MHz, Frequency Range 3

				Value (dBm)	Limit (dBm)	Result
				-23.429	-19	Pass

