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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
Block - DC	Fairview Microwave	SD3464	ANA	25-Sep-20	25-Sep-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.

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

All limits were adjusted by a factor of [-10*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), RSS-170 5.4 & 5.4.2.1 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 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), RSS-170 5.4 and RSS-139 6.6. emissions seen up to 1 MHz outside of authorized operating frequency range band edges shell be measured with a RBW of 1% of the measured emission bandwidth (not from part 27 but from TCB Meeting/TCB Correspondence on other testing). Any emission seen to be > 1 MHz further outside the band edges shall be measured with a RBW of 1 MHz. However, a narrower RBW of at least 1% of the emission bandwidth is still allowed provided that the measured power is integrated over the full reference bandwidth of 1 MHz.

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

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EUT:	FRIJ	Work Order:	NOKI0019
Serial Number:	YK160800020	Date:	2-Nov-20
Customer:	Nokia Solutions and Networks	Temperature:	23.6 °C
Attendees:	Mitchell Hill, John Rattanavong	Humidity:	33.9% RH
Project:	None	Barometric Pres.:	1037 mbar
Tested by:	Brandon Hobbs	Power: 54 VDC	Job Site: TX05

TEST SPECIFICATIONS	Test Method
FCC 27:2020	ANSI C63.26:2015
RSS-139:2015, RSS-170:2015	RSS-139:2015, RSS-170:2015

COMMENTS

All measurement path losses were accounted for in the reference level offest including any attenuators, filters and DC blocks. Band n66 carriers are enabled at maximum power (40 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	Value (dBm)	Limit (dBm)	Result
Port 4, Band n66, 2110 MHz - 2200 MHz					
5 MHz Bandwidth					
QPSK Modulation					
Low Channel 2112.5 MHz		1	-20.18	-19	Pass
Low Channel 2112.5 MHz		2	-24.21	-19	Pass
Low Channel 2112.5 MHz		3	-23.39	-19	Pass
High Channel 2197.5 MHz		1	-20.72	-19	Pass
High Channel 2197.5 MHz		2	-24.48	-19	Pass
High Channel 2197.5 MHz		3	-23.38	-19	Pass
16-QAM Modulation					
Low Channel 2112.5 MHz		1	-23.06	-19	Pass
Low Channel 2112.5 MHz		2	-24.19	-19	Pass
Low Channel 2112.5 MHz		3	-24.03	-19	Pass
High Channel 2197.5 MHz		1	-20.84	-19	Pass
High Channel 2197.5 MHz		2	-24.39	-19	Pass
High Channel 2197.5 MHz		3	-23.00	-19	Pass
64-QAM Modulation					
Low Channel 2112.5 MHz		1	-22.36	-19	Pass
Low Channel 2112.5 MHz		2	-24.41	-19	Pass
Low Channel 2112.5 MHz		3	-23.37	-19	Pass
High Channel 2197.5 MHz		1	-20.25	-19	Pass
High Channel 2197.5 MHz		2	-24.16	-19	Pass
High Channel 2197.5 MHz		3	-24.08	-19	Pass
256-QAM Modulation					
Low Channel 2112.5 MHz		1	-22.24	-19	Pass
Low Channel 2112.5 MHz		2	-24.09	-19	Pass
Low Channel 2112.5 MHz		3	-23.60	-19	Pass
High Channel 2197.5 MHz		1	-21.66	-19	Pass
High Channel 2197.5 MHz		2	-24.46	-19	Pass
High Channel 2197.5 MHz		3	-22.99	-19	Pass
10 MHz Bandwidth					
QPSK Modulation					
Low Channel 2115 MHz		1	-21.02	-19	Pass
Low Channel 2115 MHz		2	-24.10	-19	Pass
Low Channel 2115 MHz		3	-23.35	-19	Pass
High Channel 2195 MHz		1	-21.43	-19	Pass
High Channel 2195 MHz		2	-24.47	-19	Pass
High Channel 2195 MHz		3	-22.89	-19	Pass
16-QAM Modulation					
Low Channel 2115 MHz		1	-20.97	-19	Pass
Low Channel 2115 MHz		2	-23.90	-19	Pass
Low Channel 2115 MHz		3	-22.08	-19	Pass
High Channel 2195 MHz		1	-23.14	-19	Pass
High Channel 2195 MHz		2	-24.46	-19	Pass
High Channel 2195 MHz		3	-23.99	-19	Pass
64-QAM Modulation					
Low Channel 2115 MHz		1	-22.13	-19	Pass
Low Channel 2115 MHz		2	-24.35	-19	Pass
Low Channel 2115 MHz		3	-22.77	-19	Pass
High Channel 2195 MHz		1	-22.23	-19	Pass
High Channel 2195 MHz		2	-24.77	-19	Pass
High Channel 2195 MHz		3	-24.32	-19	Pass
256-QAM Modulation					
Low Channel 2115 MHz		1	-19.83	-19	Pass
Low Channel 2115 MHz		2	-24.13	-19	Pass
Low Channel 2115 MHz		3	-23.32	-19	Pass
High Channel 2195 MHz		1	-20.94	-19	Pass
High Channel 2195 MHz		2	-24.95	-19	Pass
High Channel 2195 MHz		3	-23.56	-19	Pass
15 MHz Bandwidth					
QPSK Modulation					
Low Channel 2117.5 MHz		1	-19.51	-19	Pass
Low Channel 2117.5 MHz		2	-24.49	-19	Pass
Low Channel 2117.5 MHz		3	-23.35	-19	Pass
16-QAM Modulation					
Low Channel 2117.5 MHz		1	-19.38	-19	Pass
Low Channel 2117.5 MHz		2	-24.14	-19	Pass
Low Channel 2117.5 MHz		3	-23.26	-19	Pass
64-QAM Modulation					
Low Channel 2117.5 MHz		1	-22.69	-19	Pass
Low Channel 2117.5 MHz		2	-25.04	-19	Pass
Low Channel 2117.5 MHz		3	-23.42	-19	Pass
256-QAM Modulation					
Low Channel 2117.5 MHz		1	-19.76	-19	Pass
Low Channel 2117.5 MHz		2	-24.41	-19	Pass
Low Channel 2117.5 MHz		3	-22.60	-19	Pass

20 MHz Bandwidth				
QPSK Modulation				
Low Channel 2120 MHz	1	-20.33	-19	Pass
Low Channel 2120 MHz	2	-24.24	-19	Pass
Low Channel 2120 MHz	3	-22.32	-19	Pass
High Channel 2190 MHz	1	-22.19	-19	Pass
High Channel 2190 MHz	2	-25.14	-19	Pass
High Channel 2190 MHz	3	-23.92	-19	Pass
16-QAM Modulation				
Low Channel 2120 MHz	1	-22.01	-19	Pass
Low Channel 2120 MHz	2	-24.72	-19	Pass
Low Channel 2120 MHz	3	-23.75	-19	Pass
High Channel 2190 MHz	1	-22.78	-19	Pass
High Channel 2190 MHz	2	-25.24	-19	Pass
High Channel 2190 MHz	3	-23.59	-19	Pass
64-QAM Modulation				
Low Channel 2120 MHz	1	-20.92	-19	Pass
Low Channel 2120 MHz	2	-24.39	-19	Pass
Low Channel 2120 MHz	3	-23.14	-19	Pass
High Channel 2190 MHz	1	-21.43	-19	Pass
High Channel 2190 MHz	2	-24.79	-19	Pass
High Channel 2190 MHz	3	-23.31	-19	Pass
256-QAM Modulation				
Low Channel 2120 MHz	1	-22.29	-19	Pass
Low Channel 2120 MHz	2	-24.55	-19	Pass
Low Channel 2120 MHz	3	-22.96	-19	Pass
High Channel 2190 MHz	1	-22.03	-19	Pass
High Channel 2190 MHz	2	-25.02	-19	Pass
High Channel 2190 MHz	3	-23.63	-19	Pass

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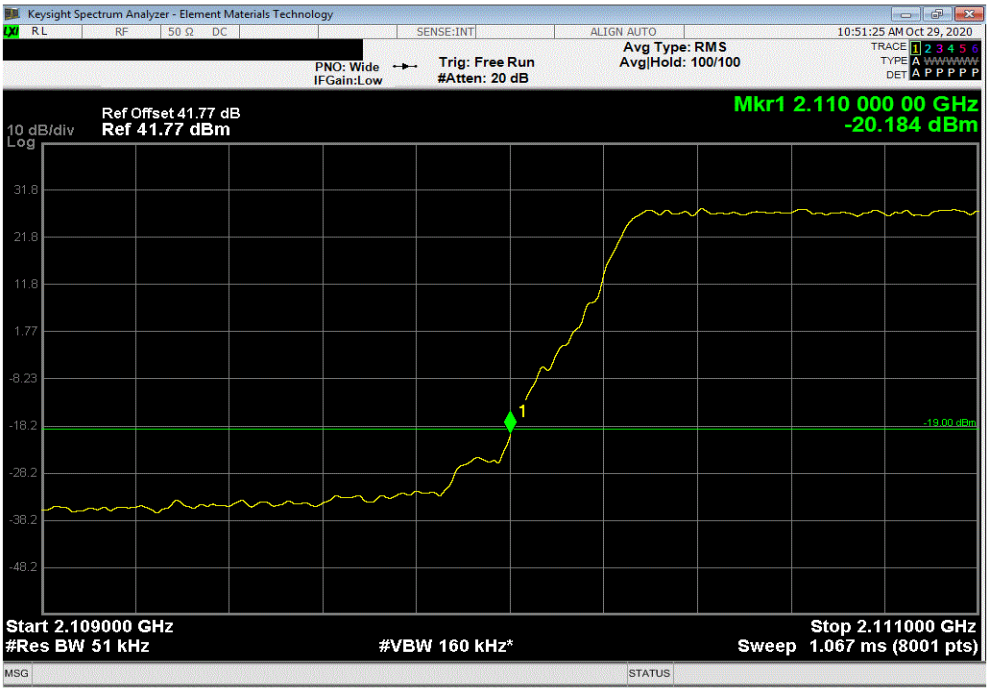
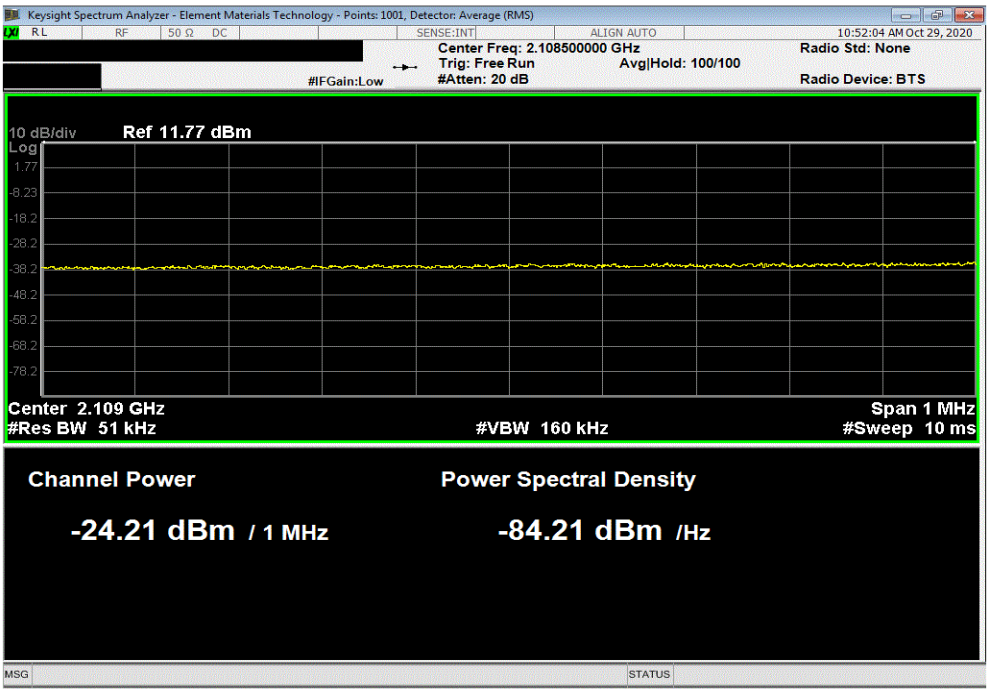
Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , QPSK Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-20.18	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , QPSK Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.21	-19	Pass



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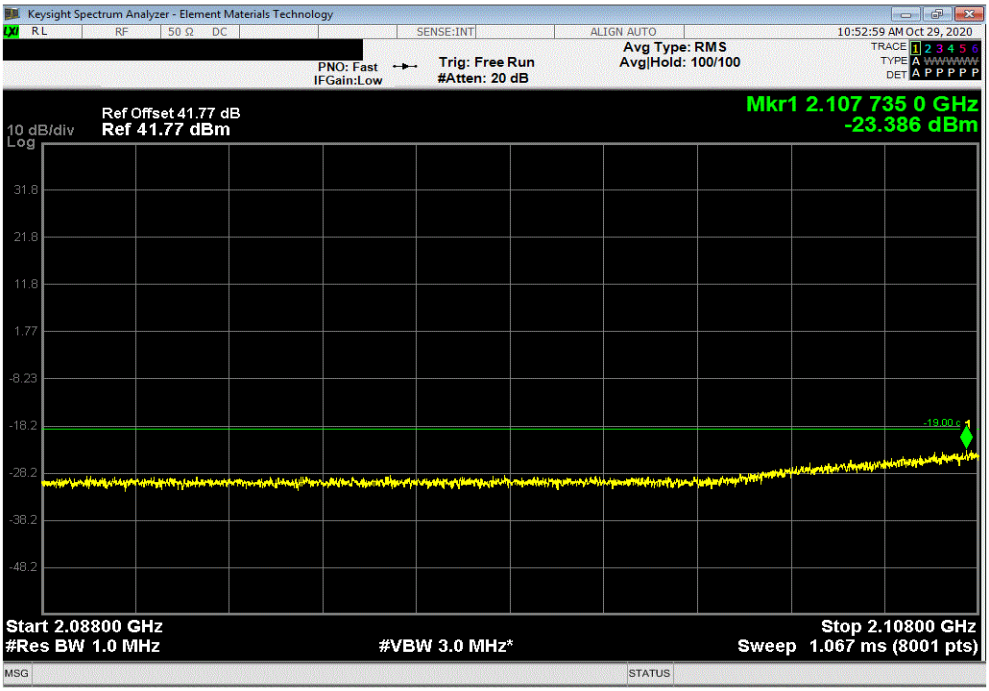
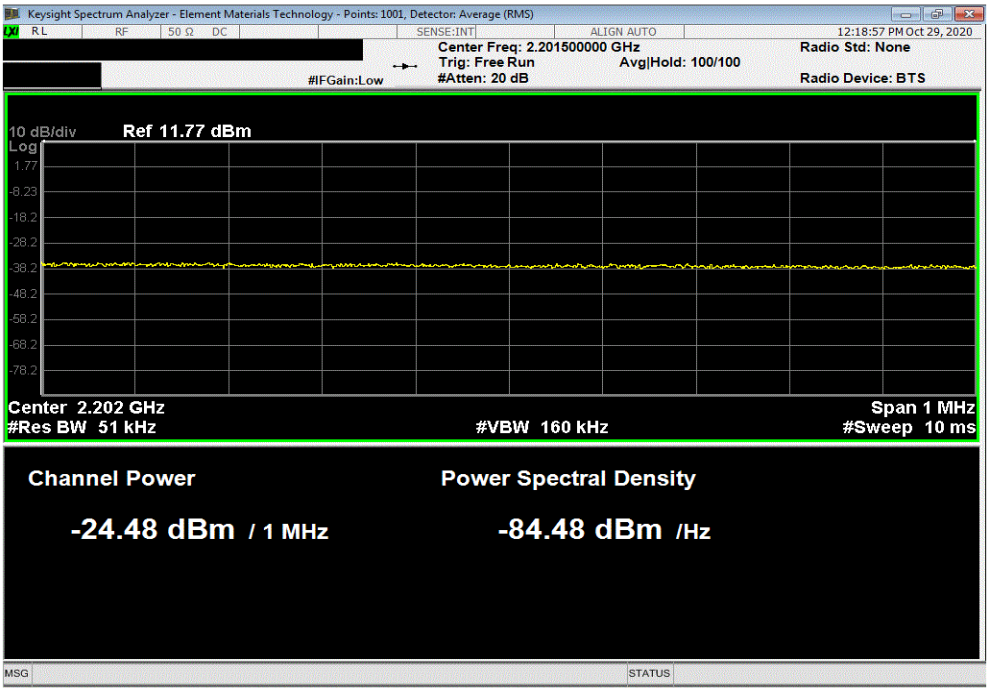
Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , QPSK Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.39	-19	Pass

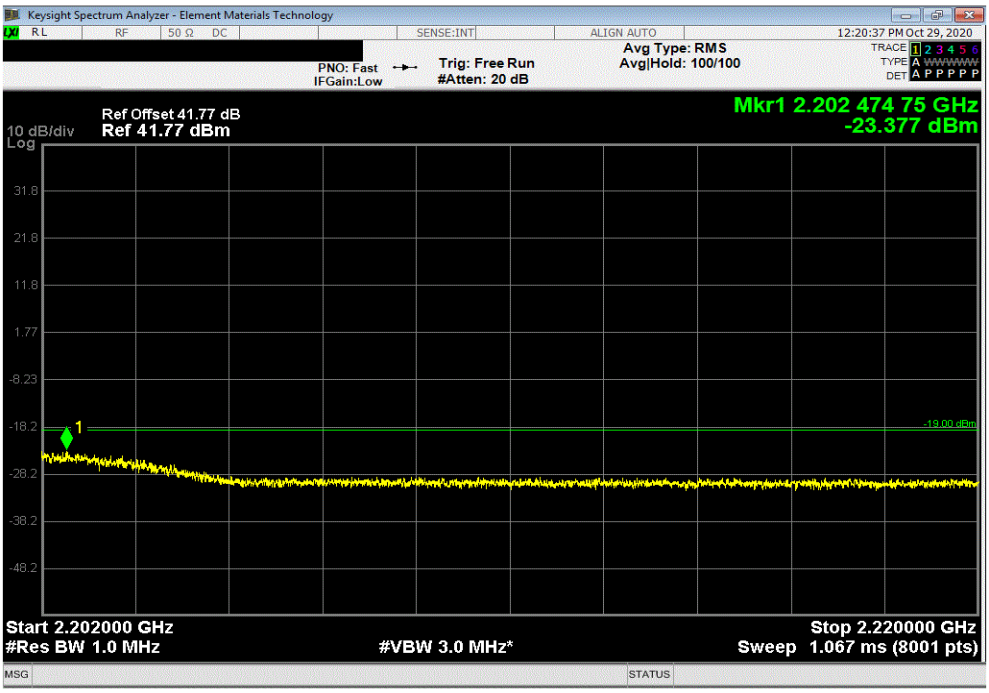


Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , QPSK Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-20.72	-19	Pass

Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , QPSK Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.48	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , QPSK Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.38	-19	Pass



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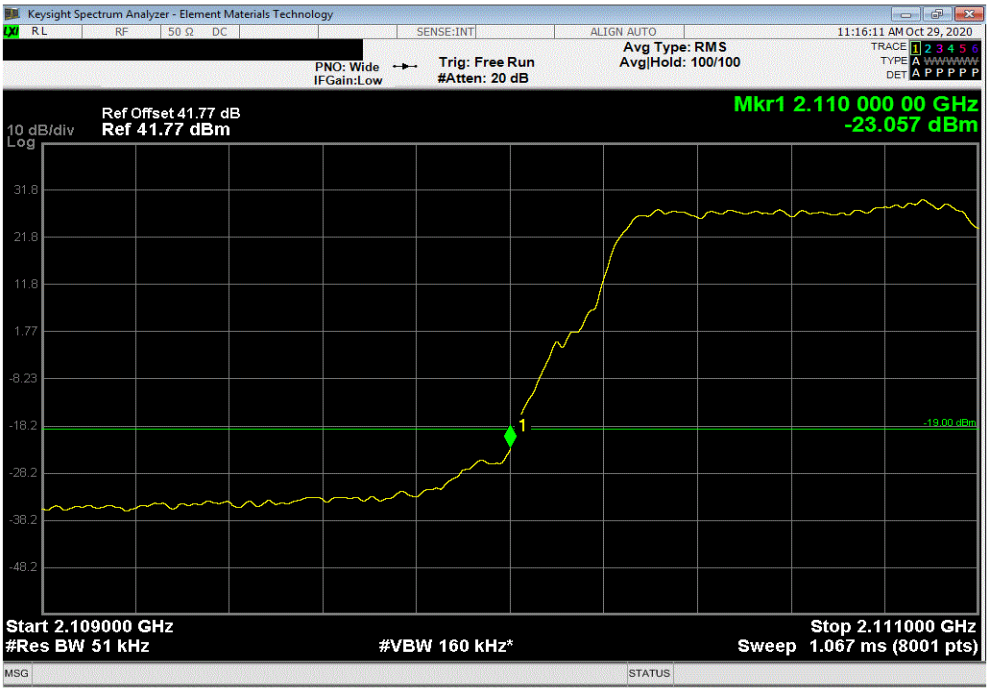
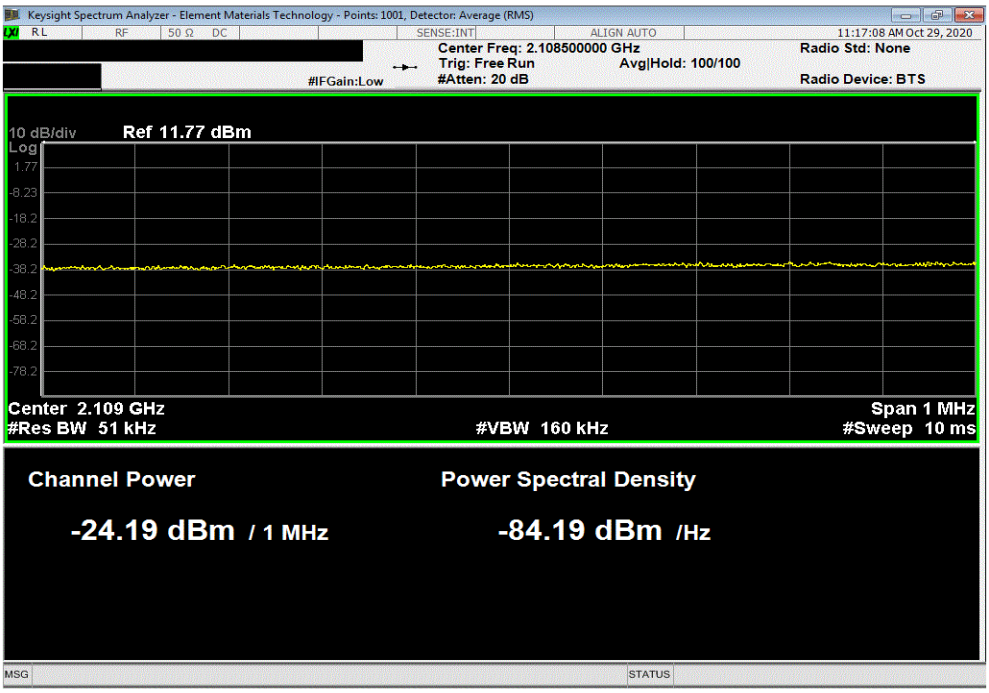
Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 16-QAM Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-23.06	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 16-QAM Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.19	-19	Pass



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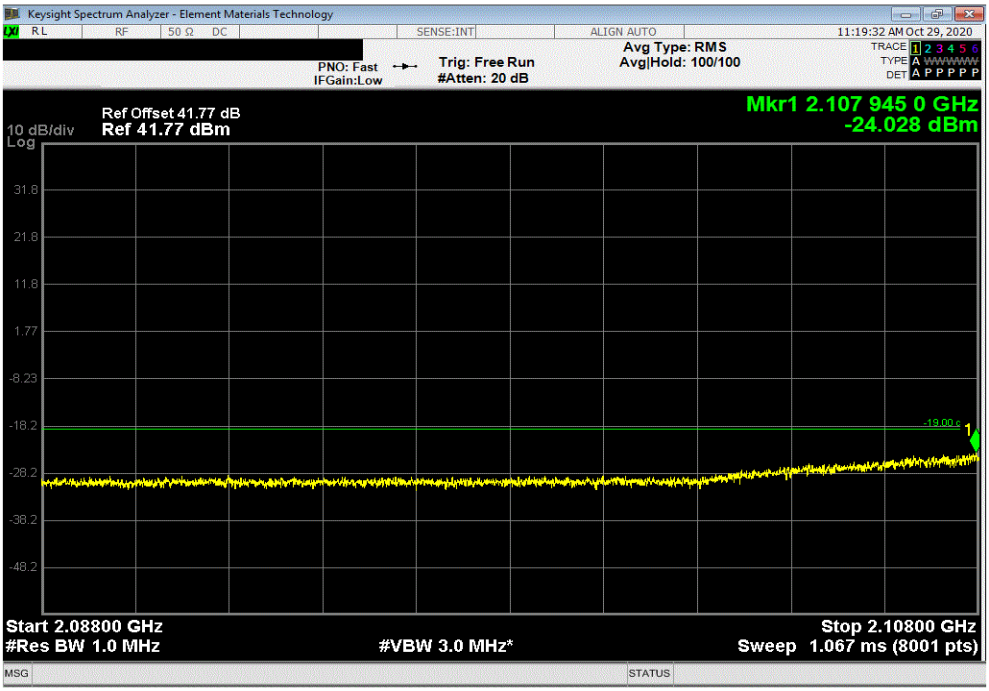
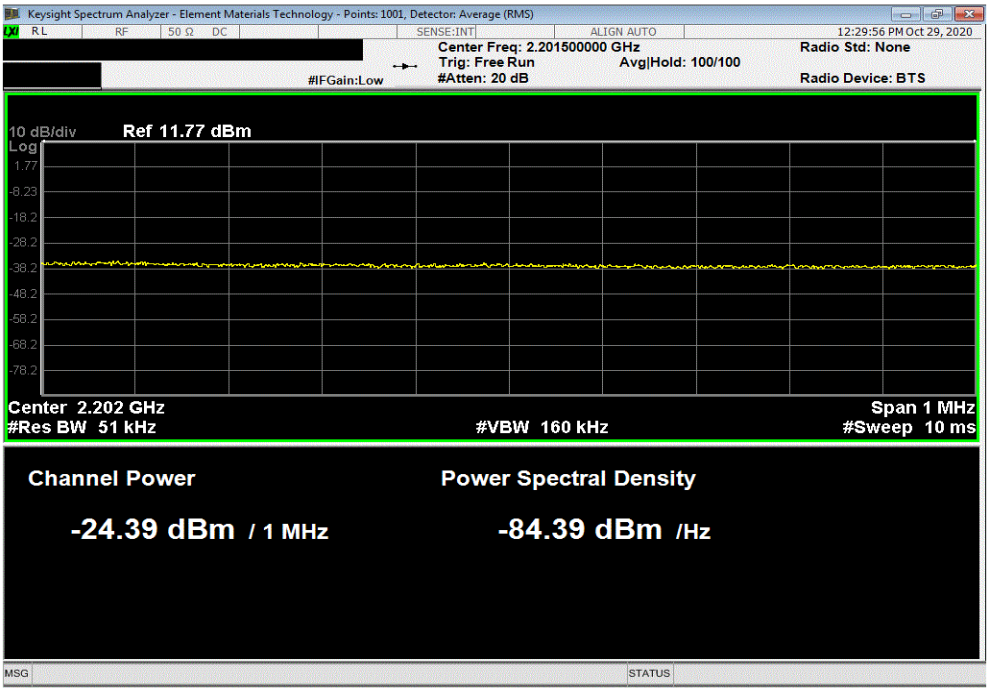
Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 16-QAM Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-24.03	-19	Pass

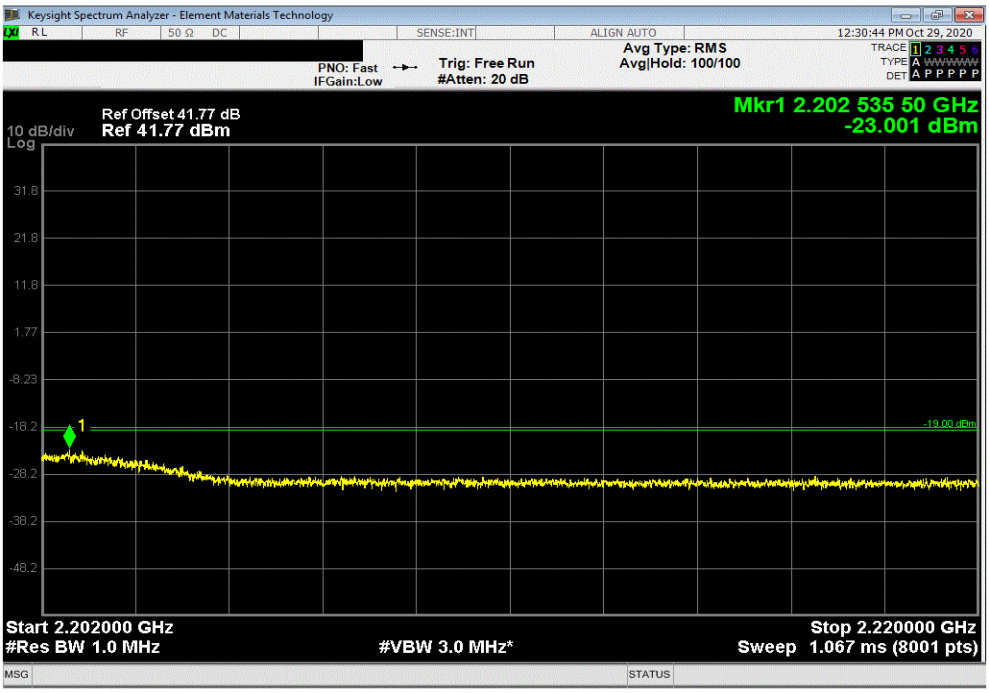


Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 16-QAM Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-20.84	-19	Pass

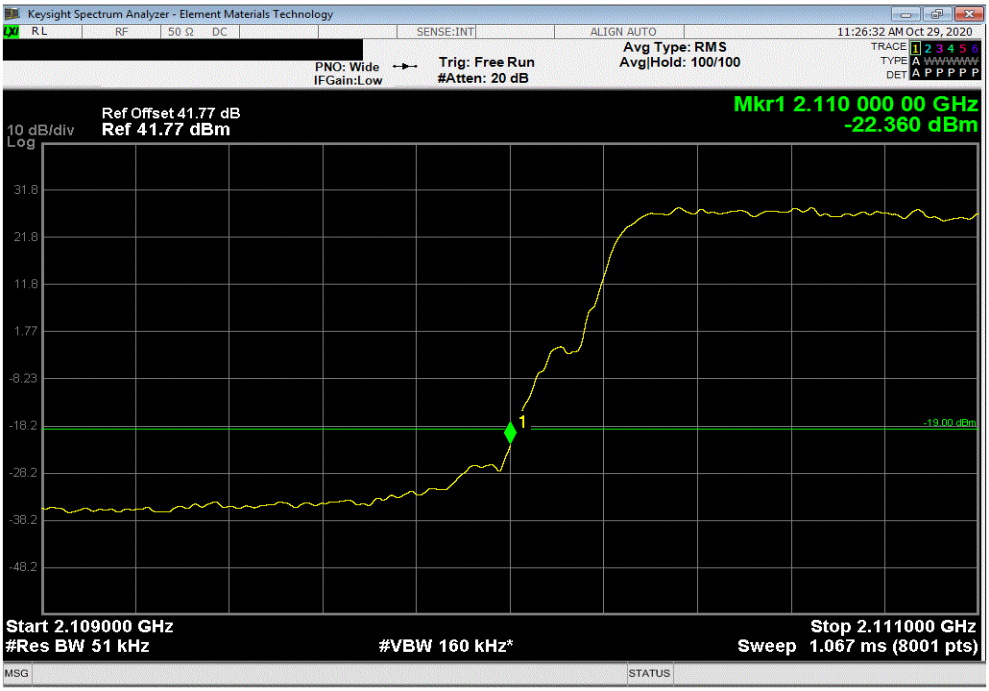
Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 16-QAM Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.39	-19	Pass



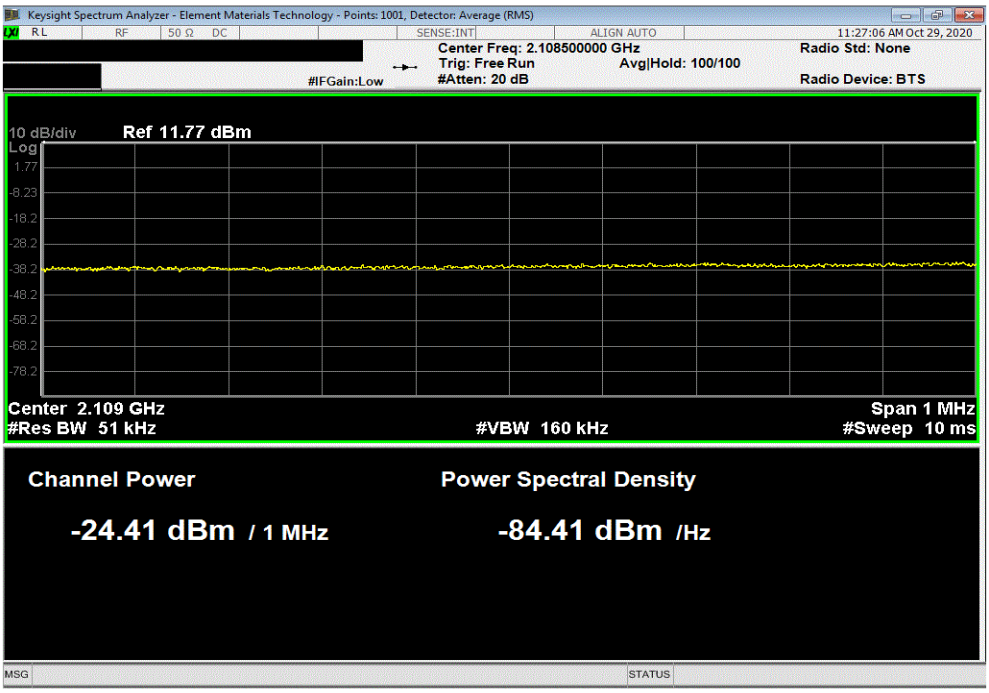
Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 16-QAM Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.00	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 64-QAM Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.36	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 64-QAM Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.41	-19	Pass



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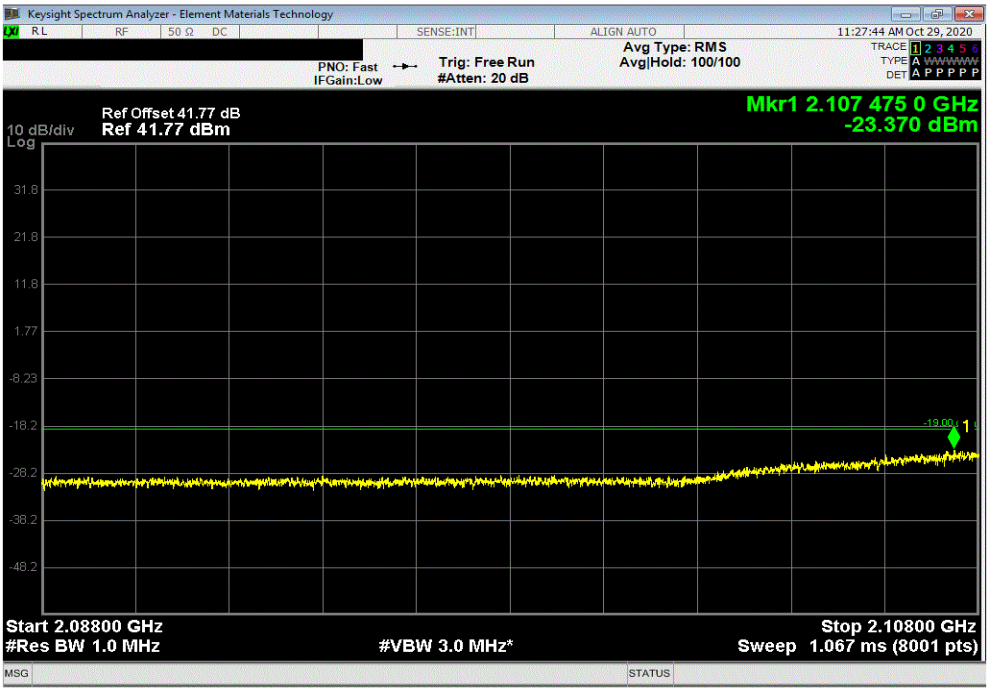
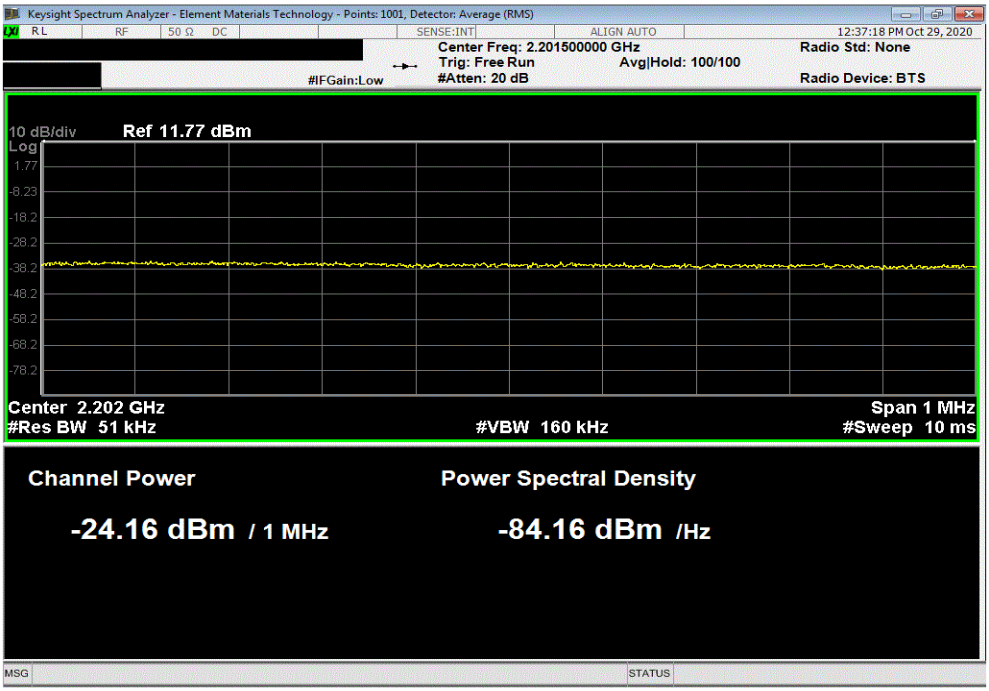
Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 64-QAM Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.37	-19	Pass

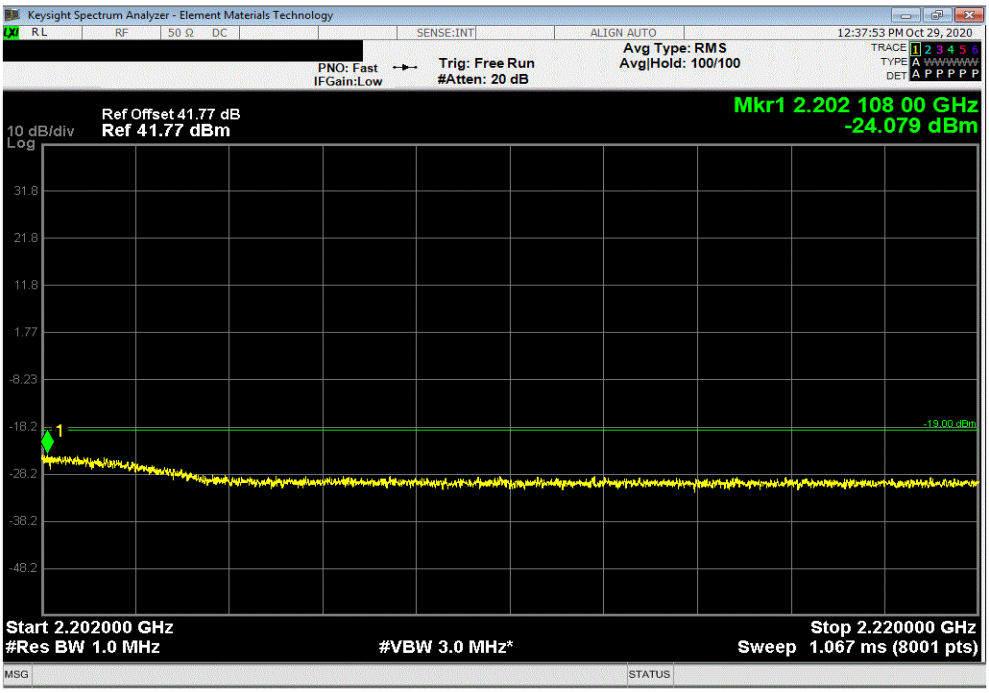


Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 64-QAM Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-20.25	-19	Pass

Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 64-QAM Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.16	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 64-QAM Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-24.08	-19	Pass



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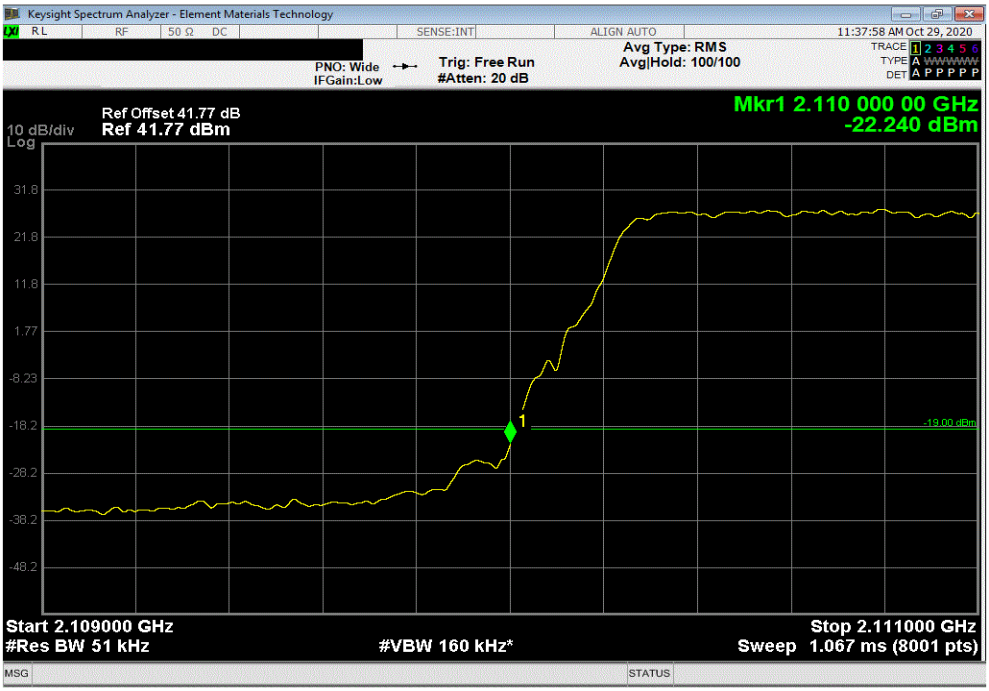
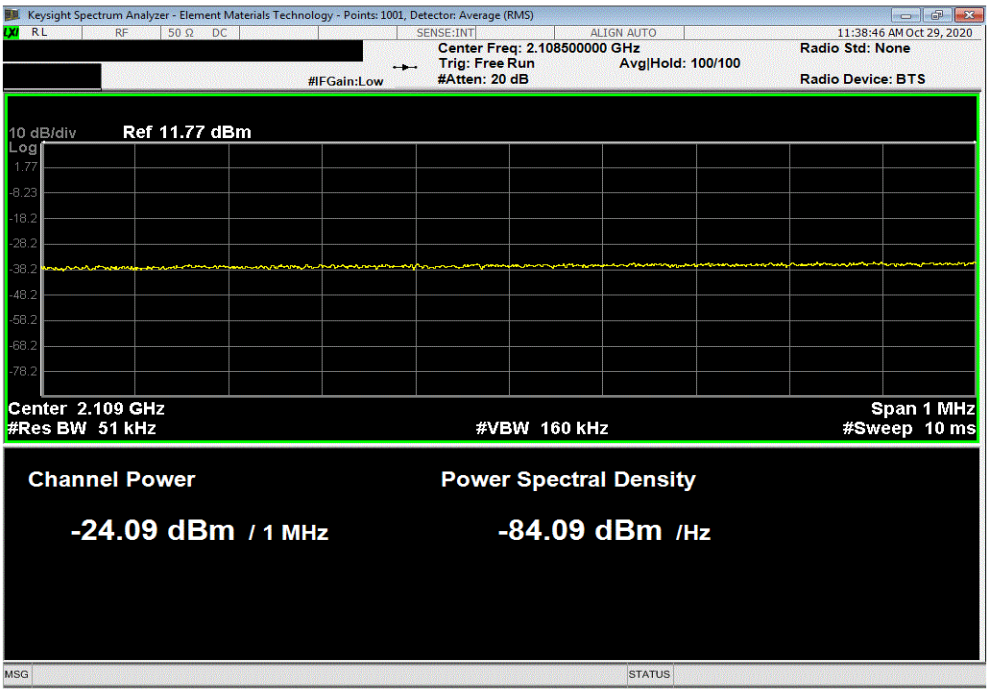
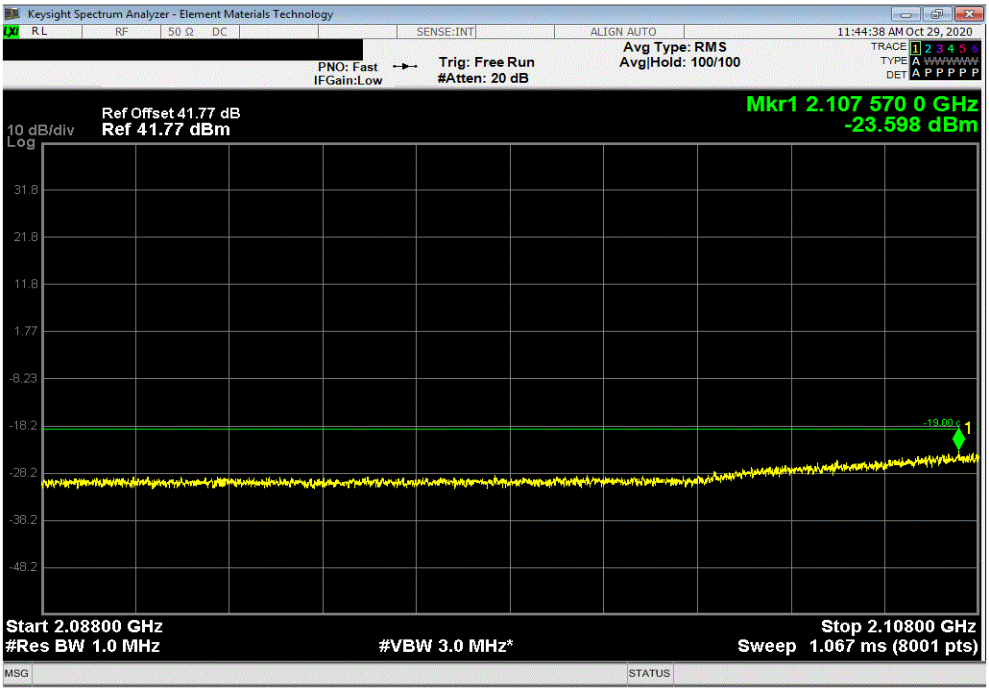
Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.24	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.09	-19	Pass

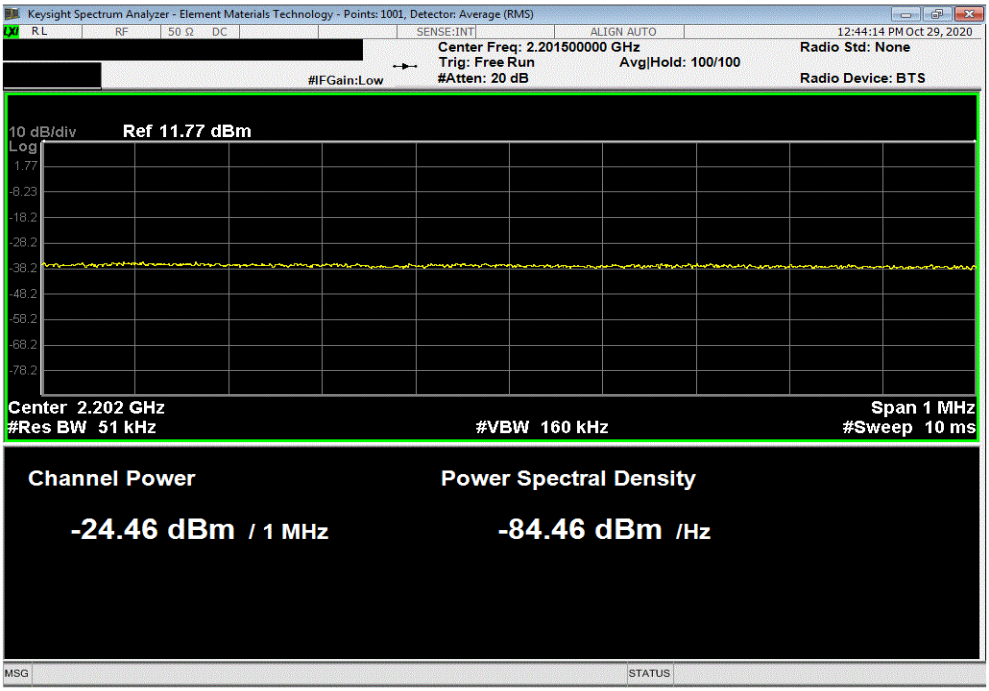


Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 2112.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.60	-19	Pass

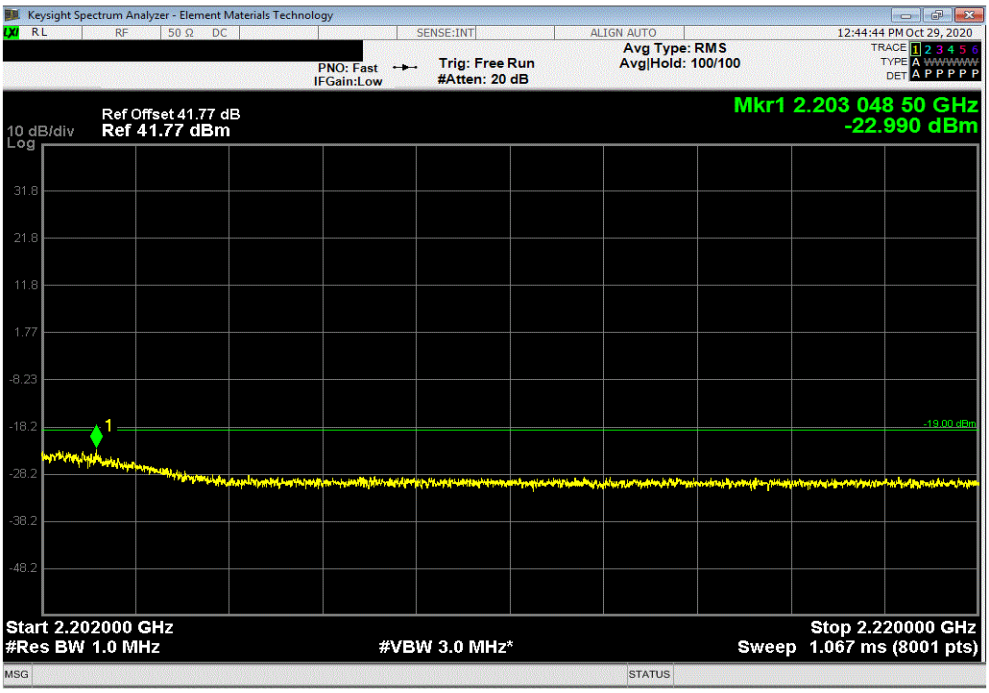


Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-21.66	-19	Pass

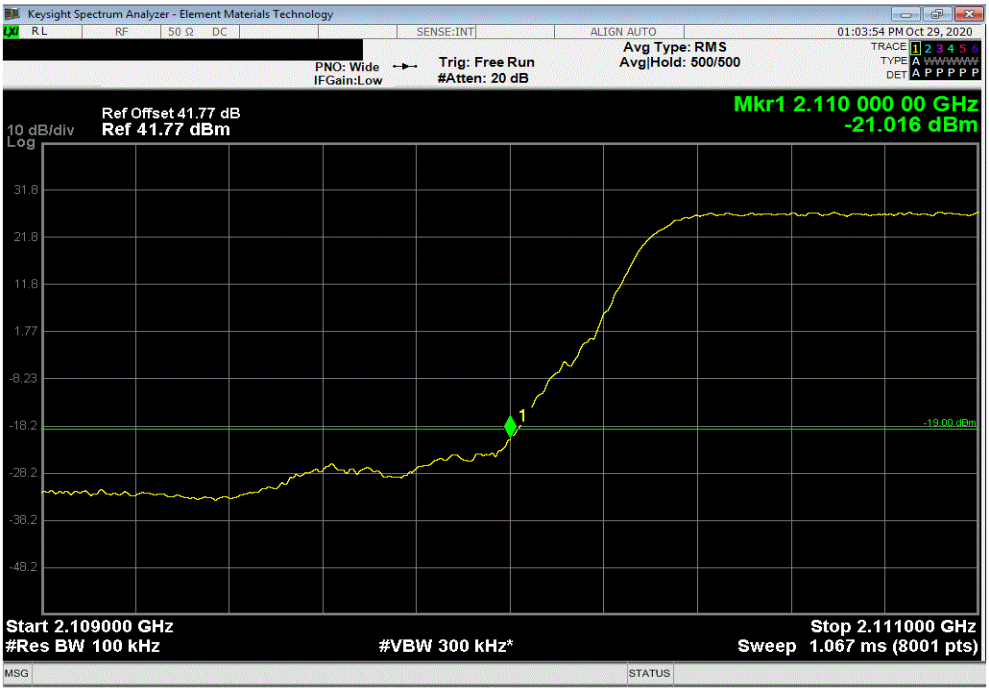
Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.46	-19	Pass



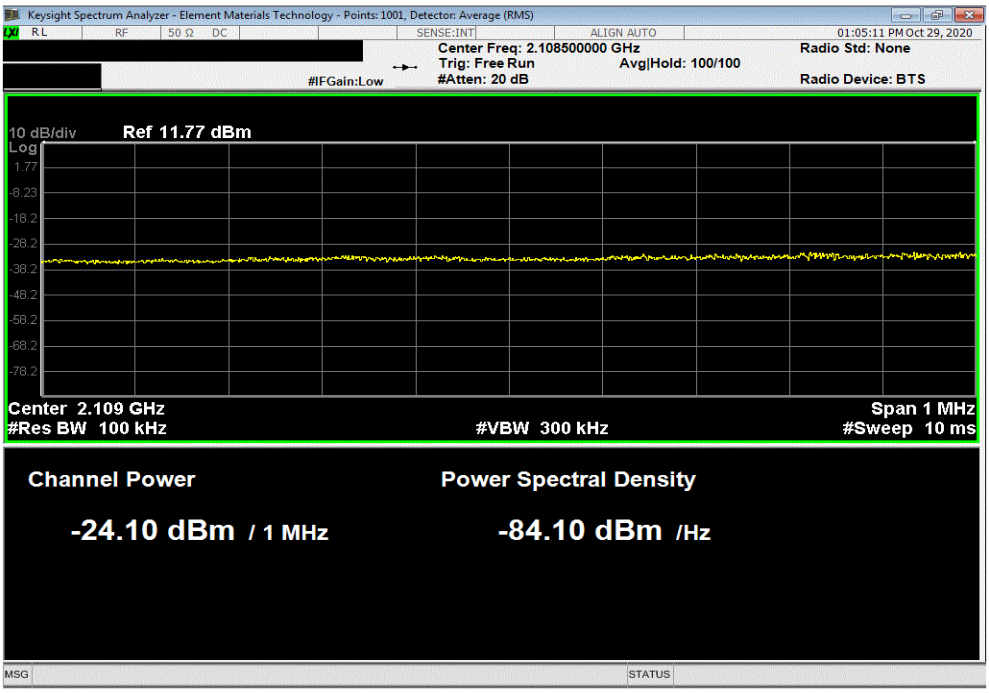
Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 2197.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-22.99	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , QPSK Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-21.02	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , QPSK Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.10	-19	Pass



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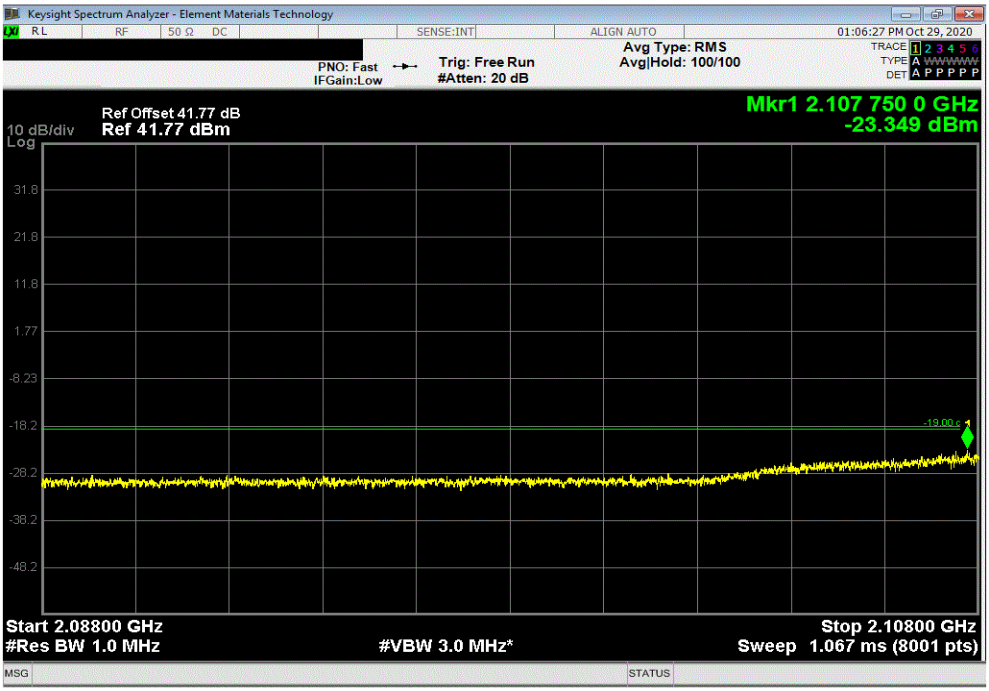
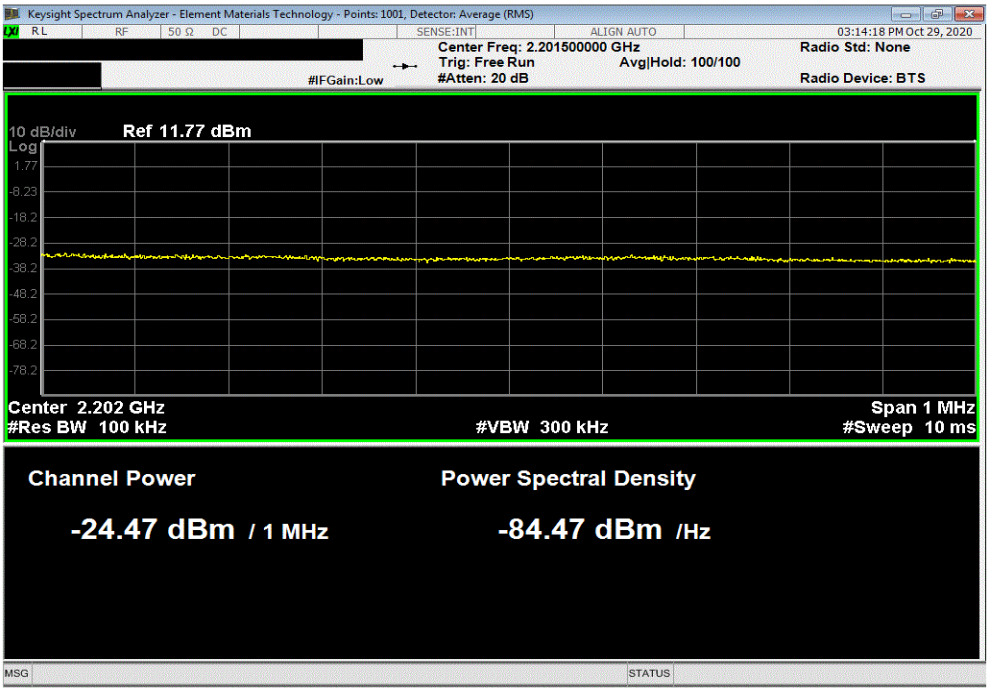
Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , QPSK Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.35	-19	Pass

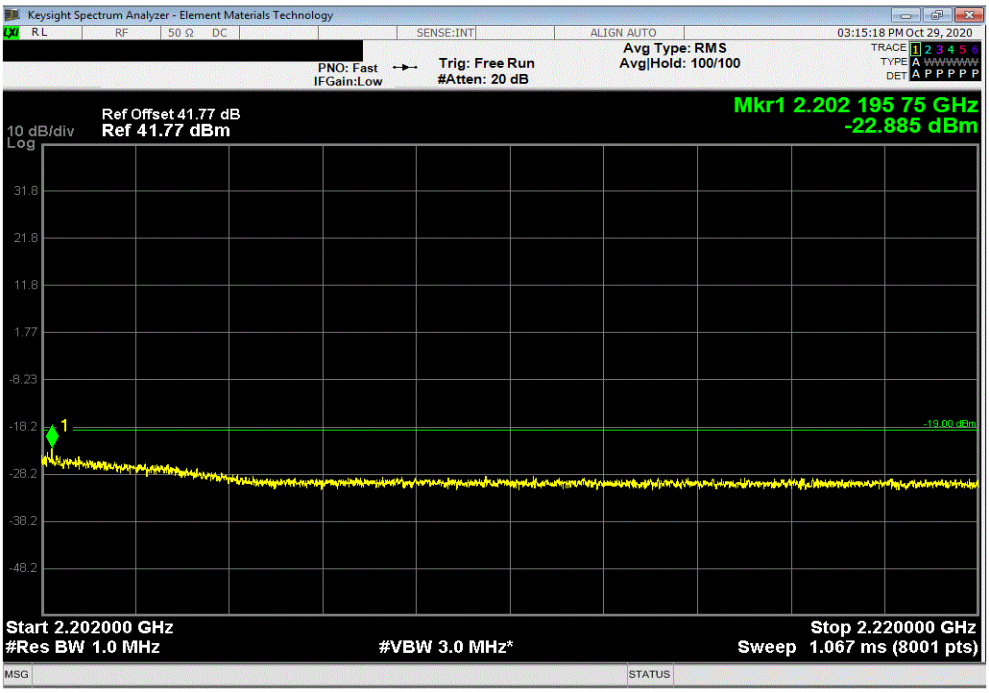


Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , QPSK Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-21.43	-19	Pass

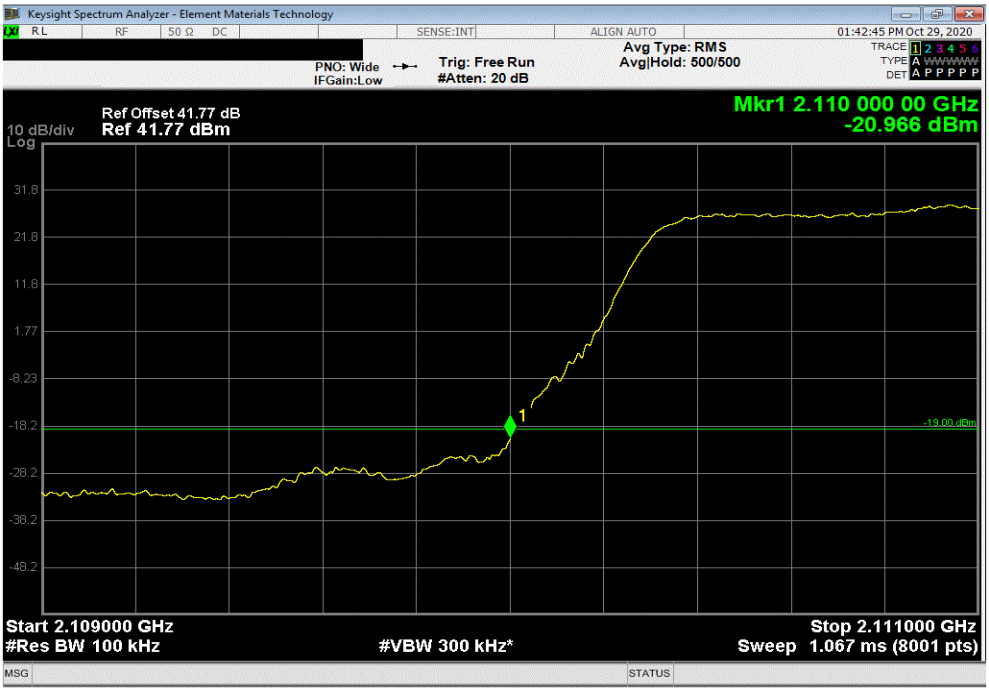
Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , QPSK Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.47	-19	Pass



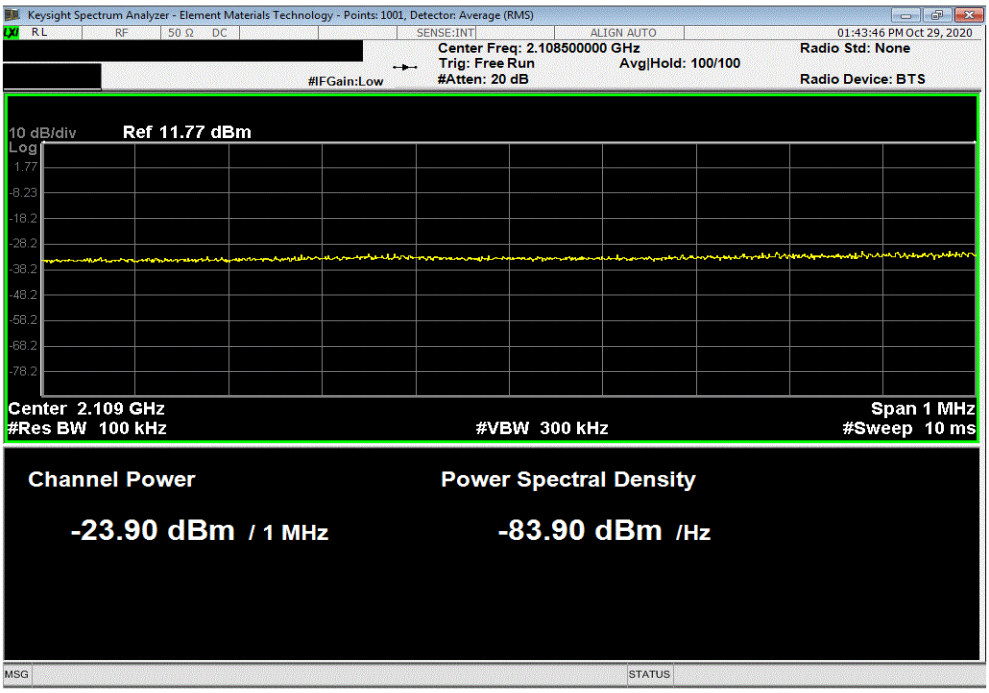
Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , QPSK Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-22.89	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 16-QAM Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-20.97	-19	Pass



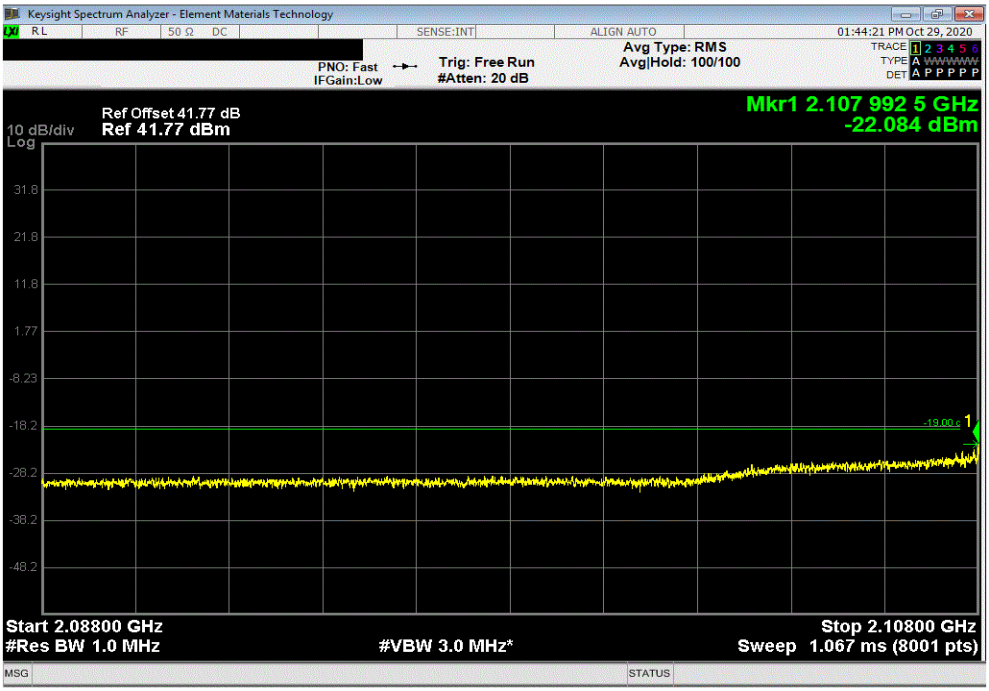
Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 16-QAM Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-23.90	-19	Pass



BAND EDGE COMPLIANCE PART 1

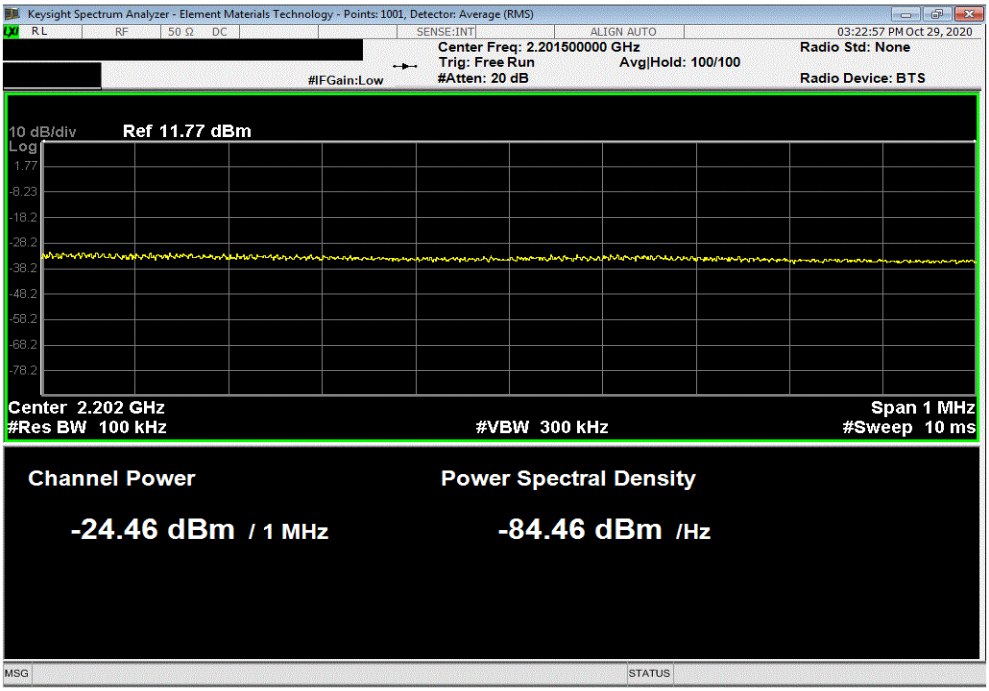
TbtTx 2020.10.20.0 BETA XMit 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 16-QAM Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-22.08	-19	Pass

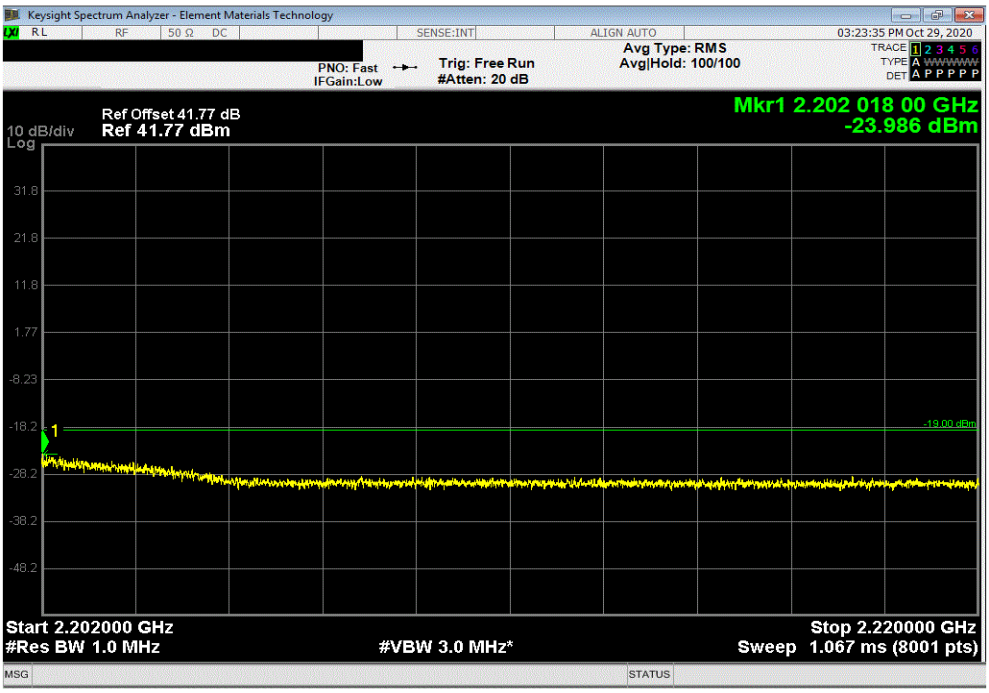


Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-23.14	-19	Pass

Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.46	-19	Pass

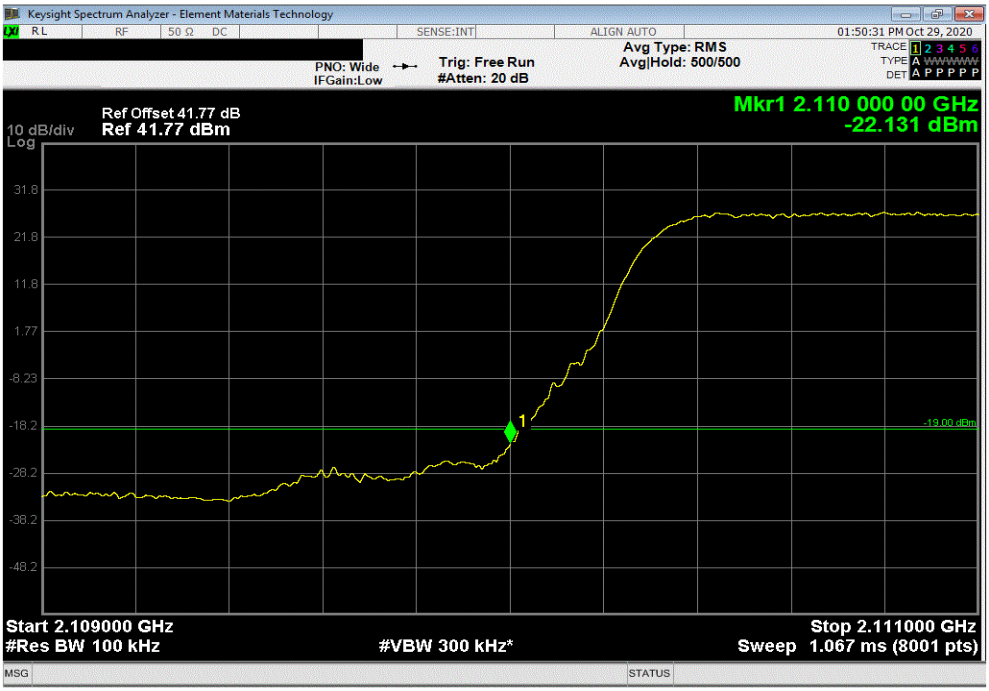


Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.99	-19	Pass

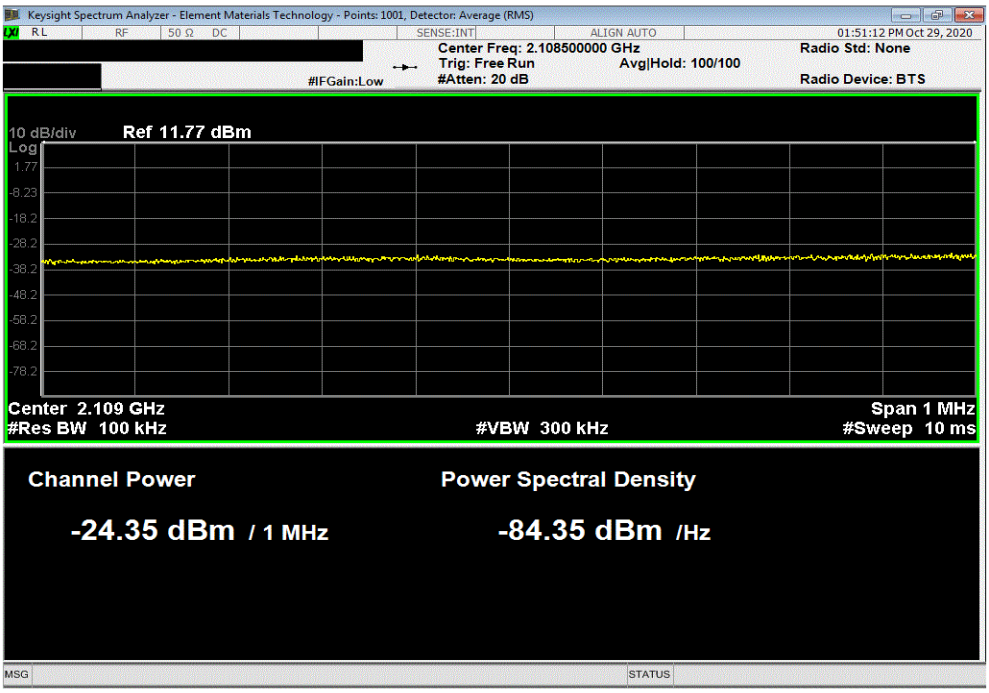


BAND EDGE COMPLIANCE PART 1

Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.13	-19	Pass



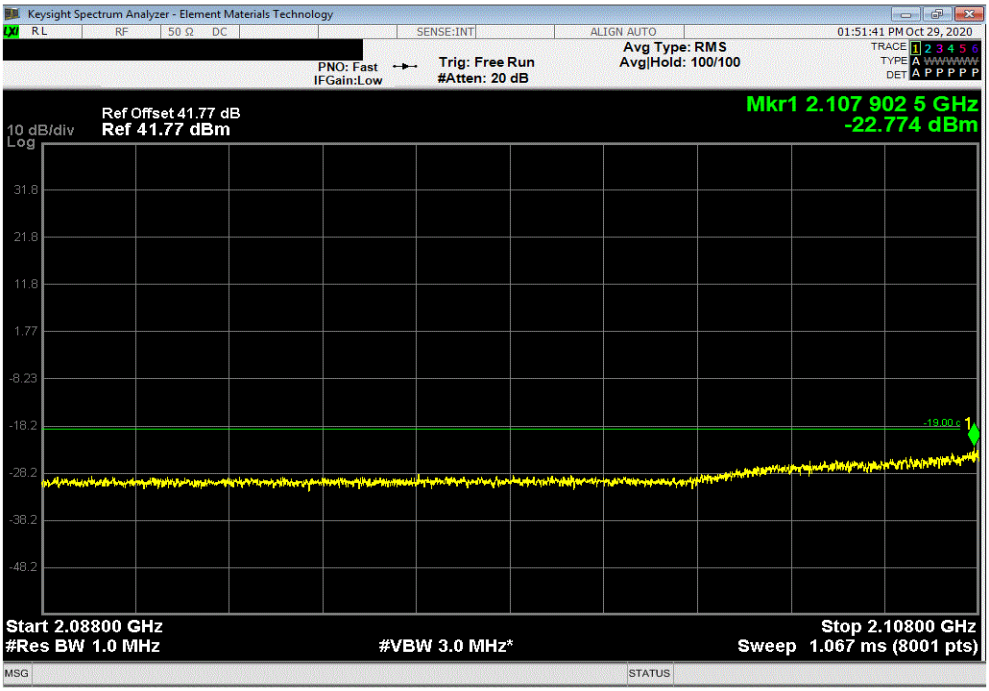
Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.35	-19	Pass



BAND EDGE COMPLIANCE PART 1

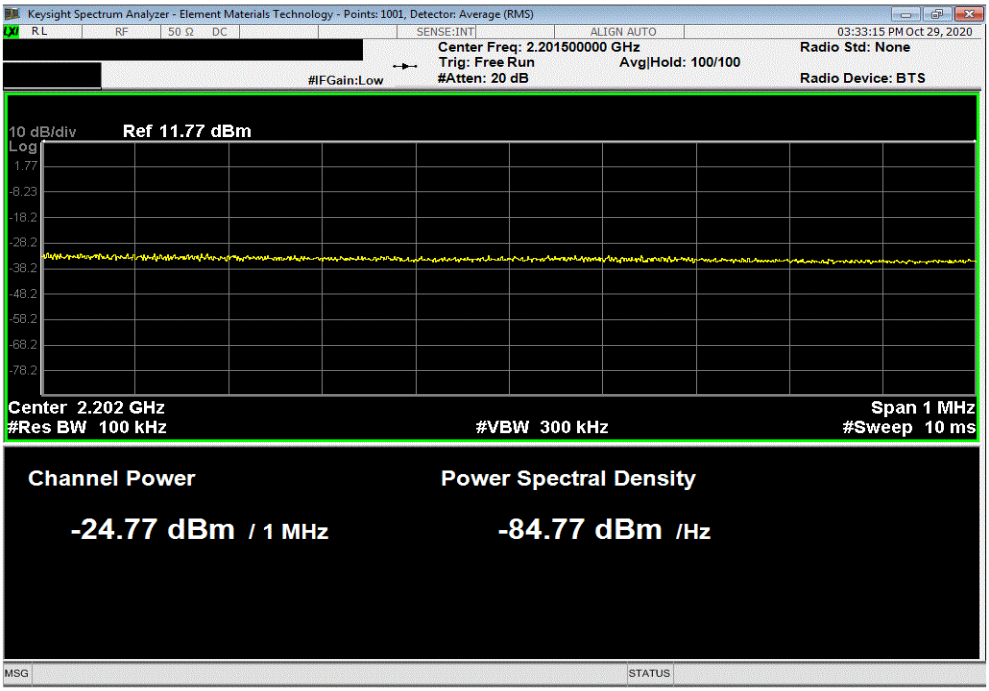
TbtTx 2020.10.20.0 BETA XMit 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-22.77	-19	Pass

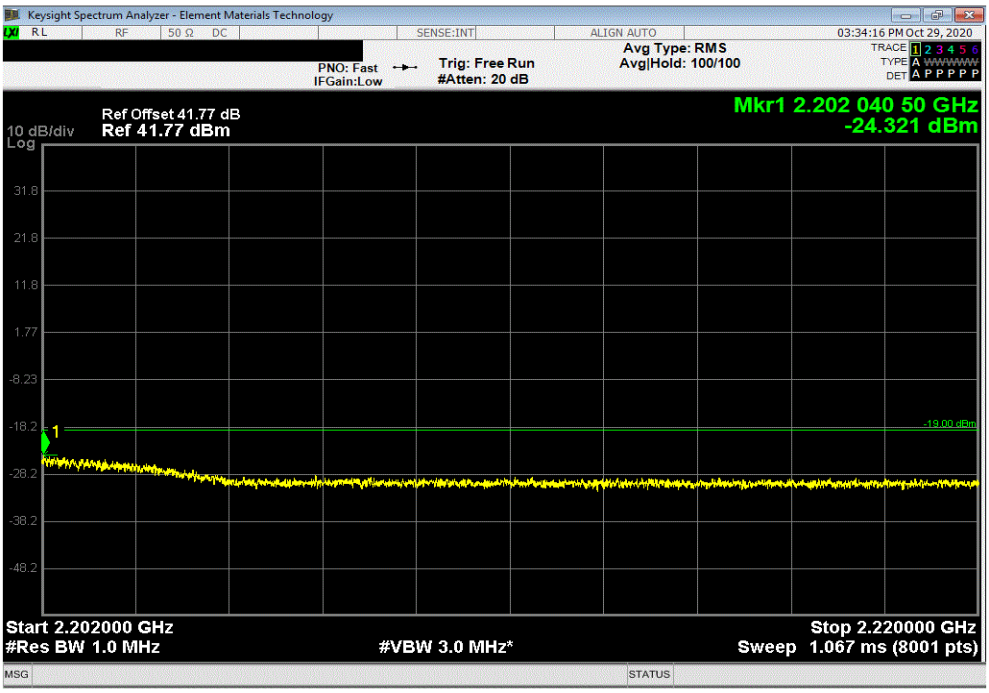


Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.23	-19	Pass

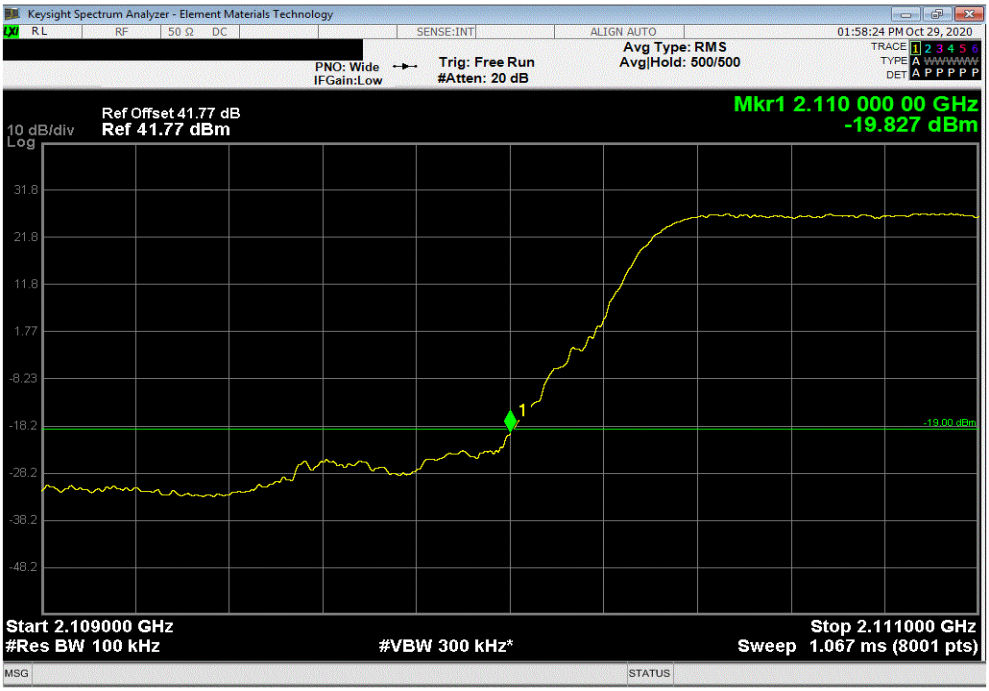
Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.77	-19	Pass



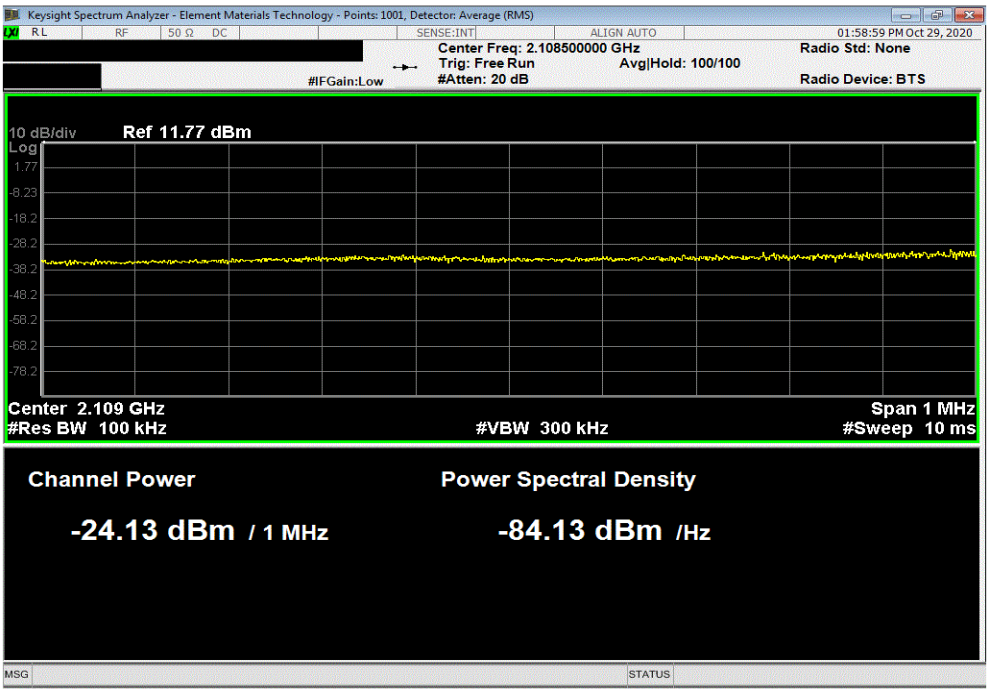
Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-24.32	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 256-QAM Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-19.83	-19	Pass



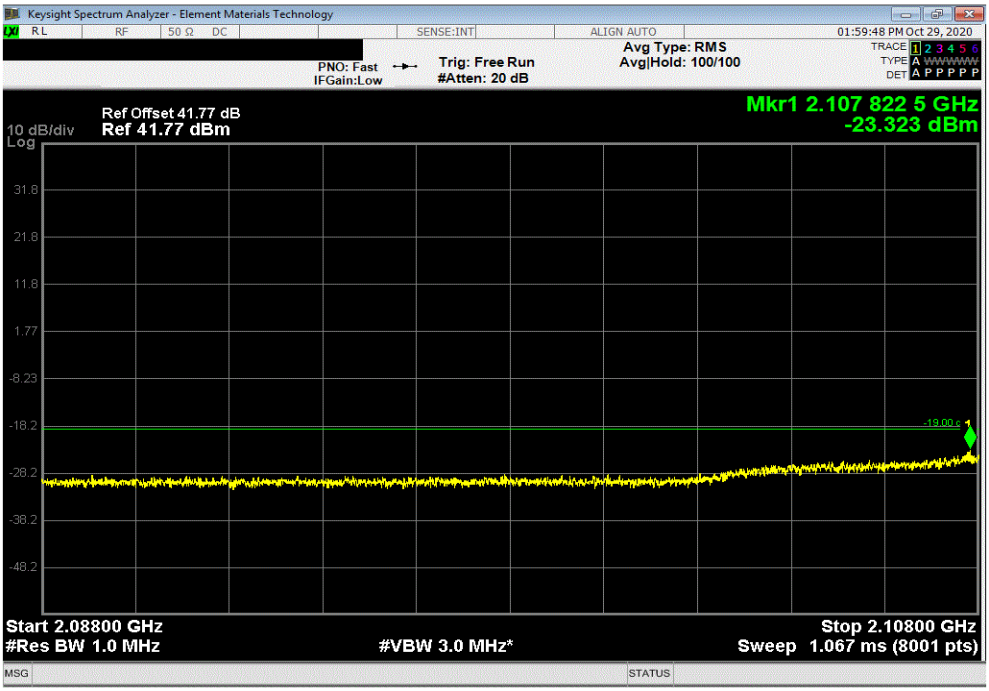
Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 256-QAM Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.13	-19	Pass



BAND EDGE COMPLIANCE PART 1

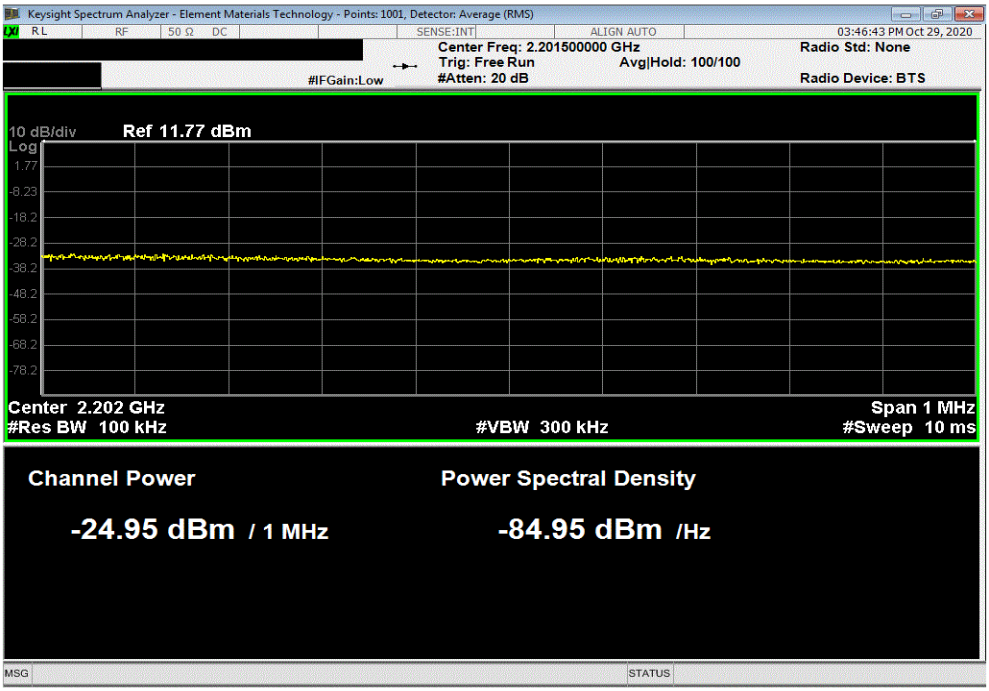
TbtTx 2020.10.20.0 BETA XMit 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 256-QAM Modulation, Low Channel 2115 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.32	-19	Pass

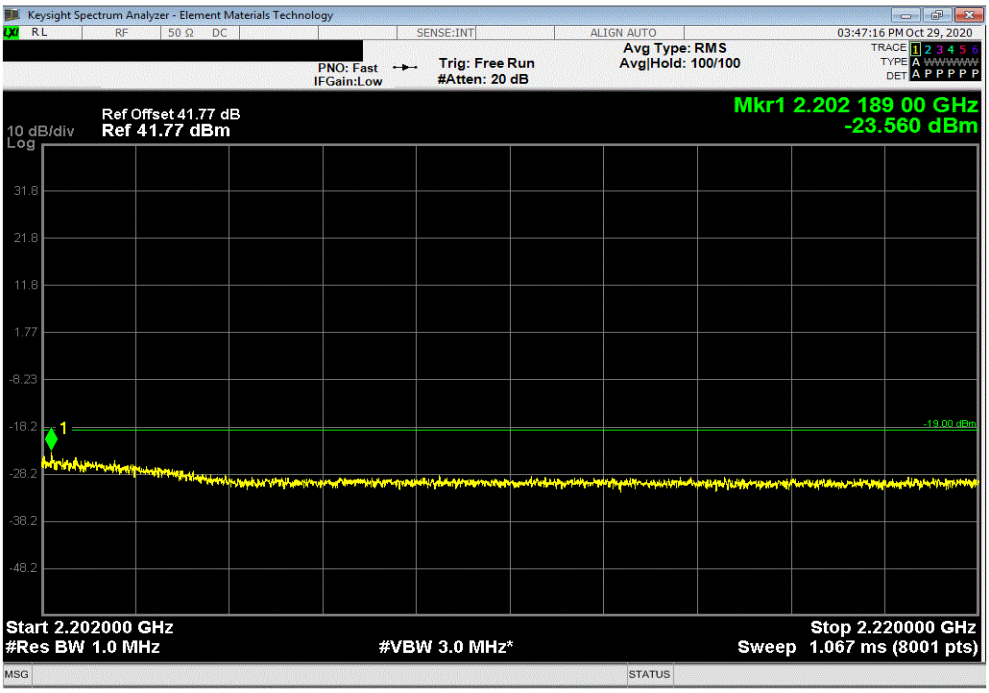


Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 256-QAM Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-20.94	-19	Pass

Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 256-QAM Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.95	-19	Pass



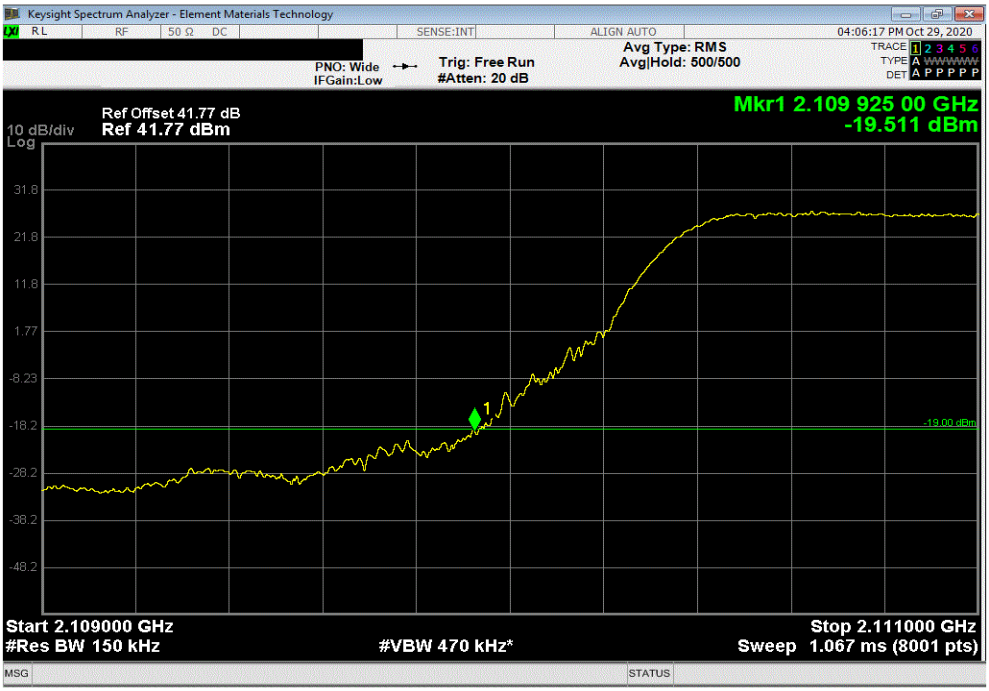
Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 256-QAM Modulation, High Channel 2195 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.56	-19	Pass



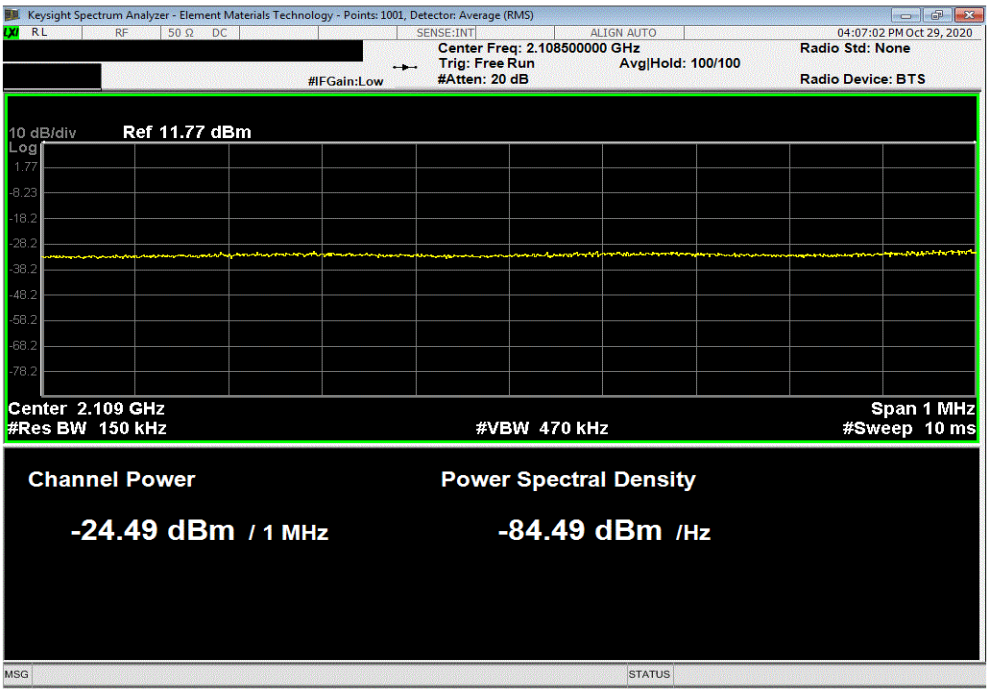
BAND EDGE COMPLIANCE PART 1

TbtTx 2020.10.20.0 BETA XMit 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , QPSK Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-19.51	-19	Pass



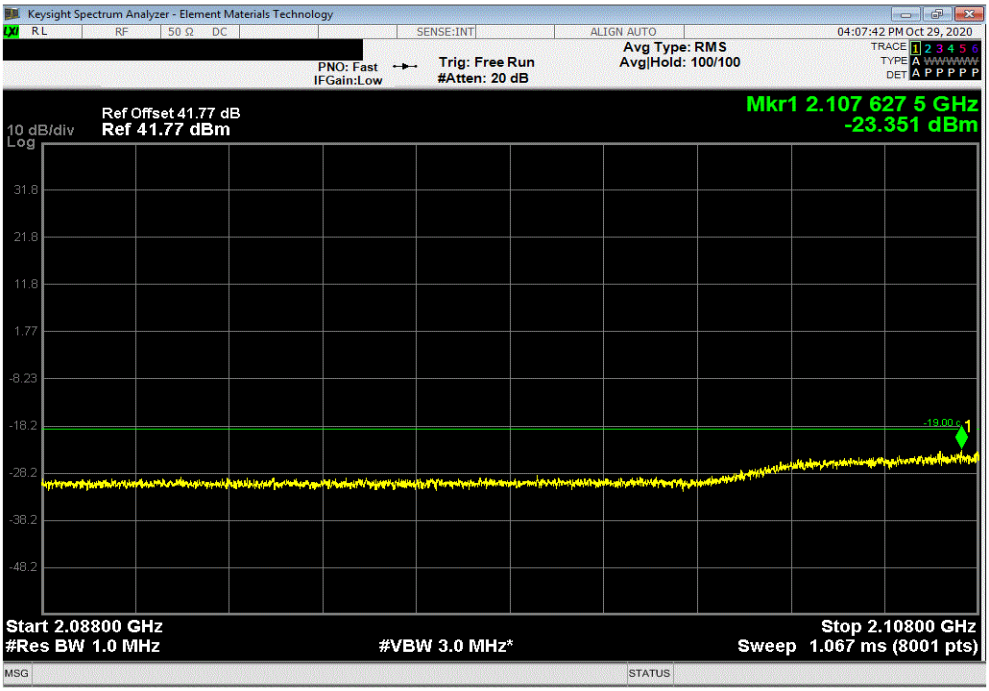
Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , QPSK Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.49	-19	Pass



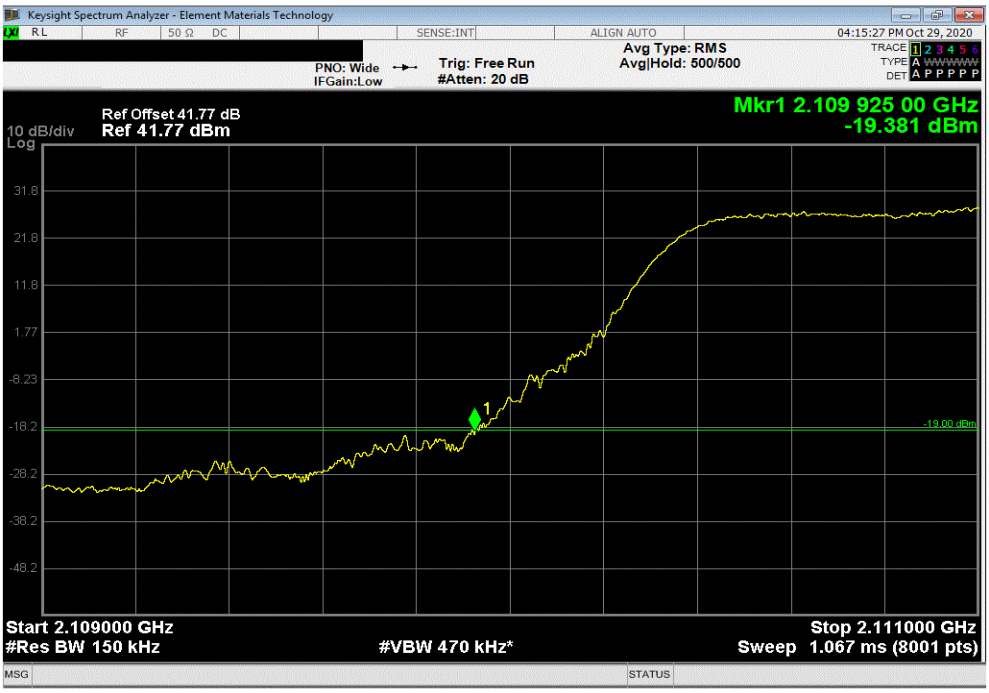
BAND EDGE COMPLIANCE PART 1

TbtTx 2020.10.20.0 BETA XMit 2020.03.25.0

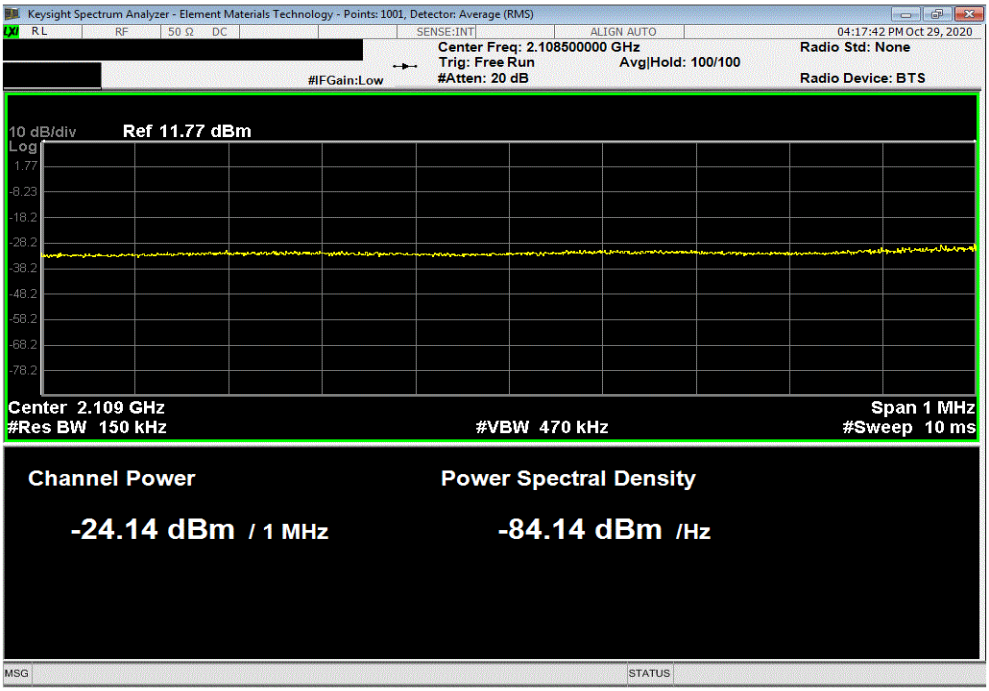
Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , QPSK Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.35	-19	Pass



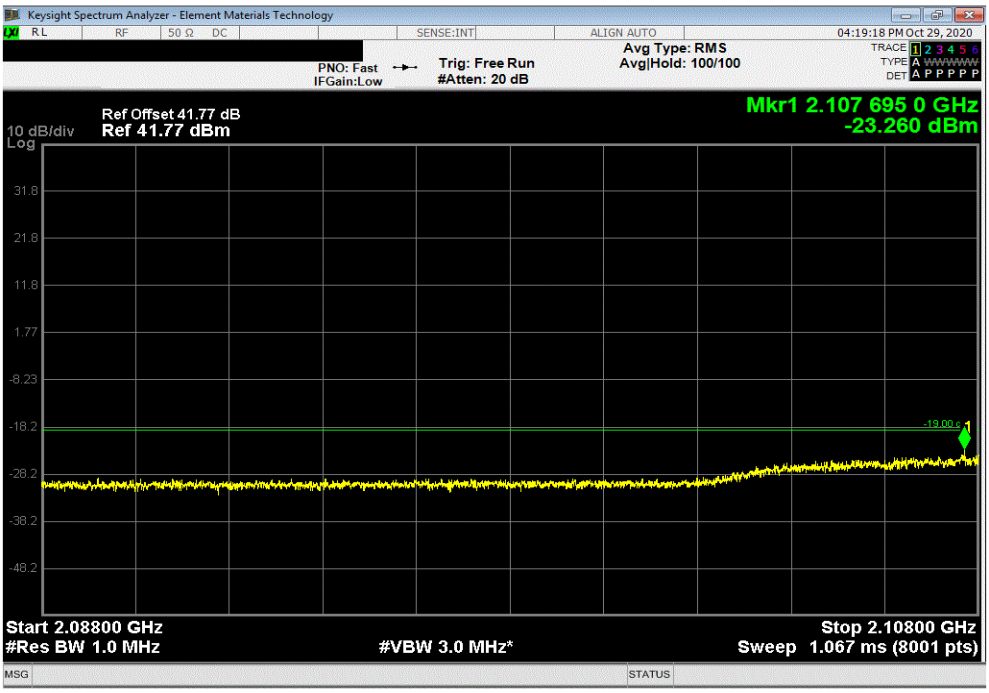
Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 16-QAM Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-19.38	-19	Pass



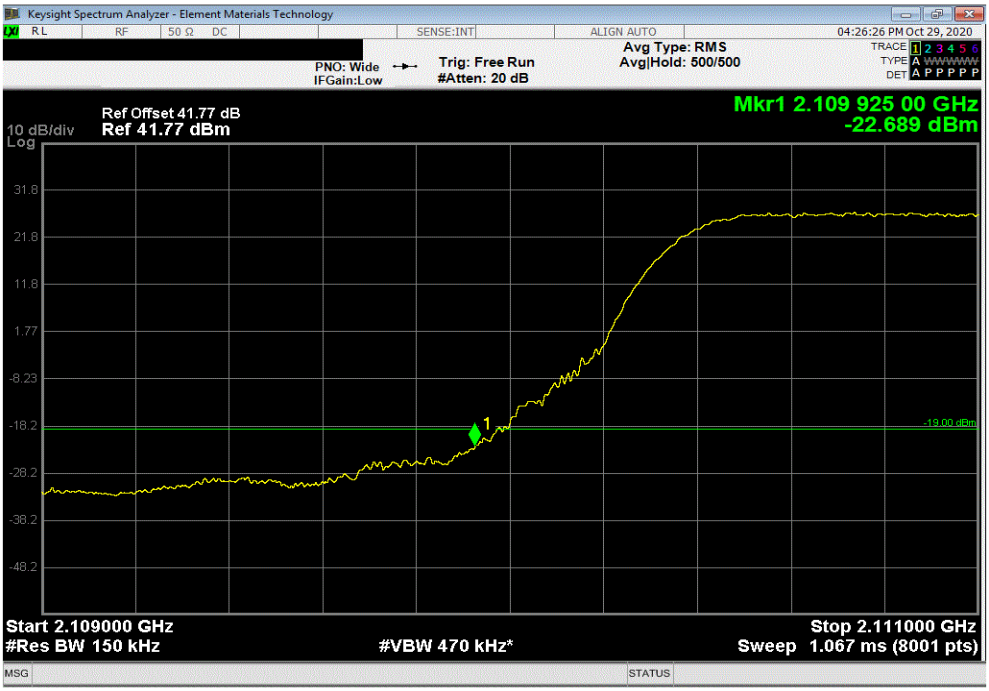
Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 16-QAM Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.14	-19	Pass



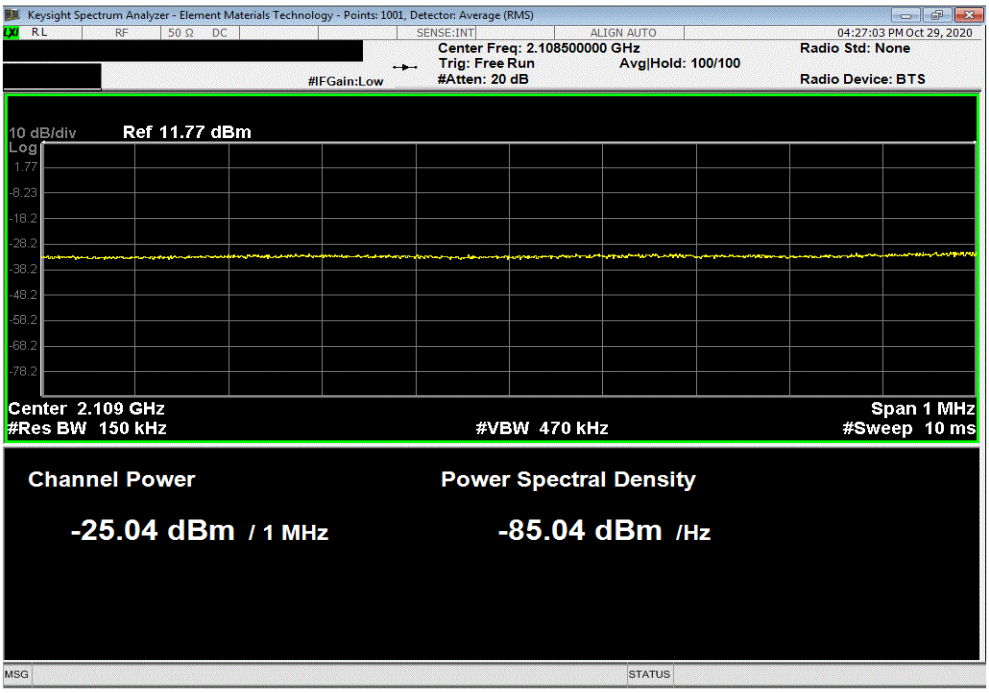
Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 16-QAM Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.26	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 64-QAM Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.69	-19	Pass



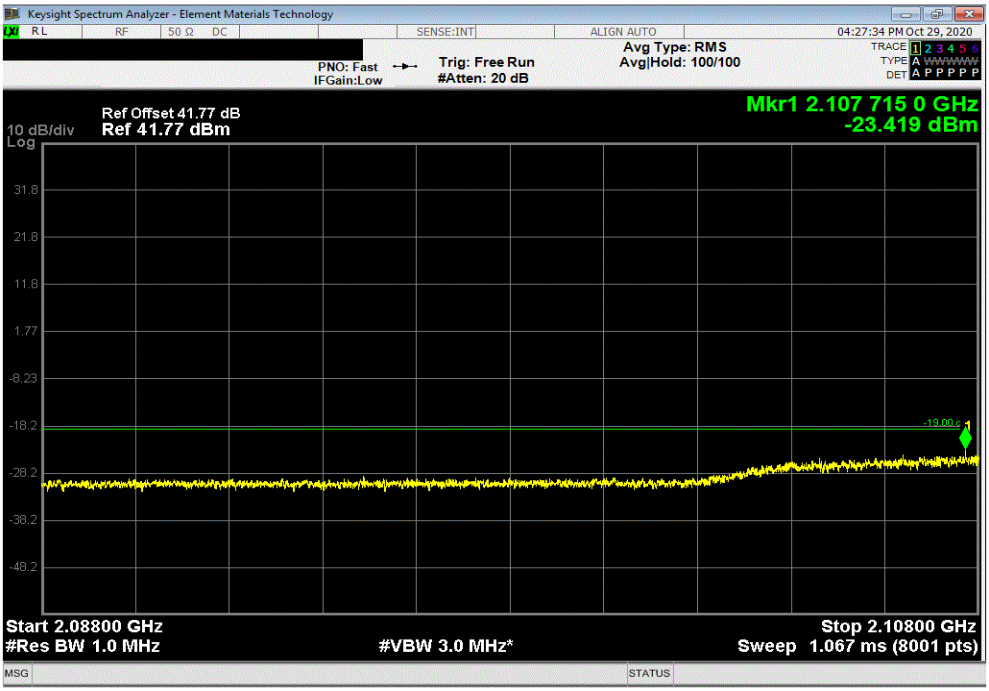
Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 64-QAM Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-25.04	-19	Pass



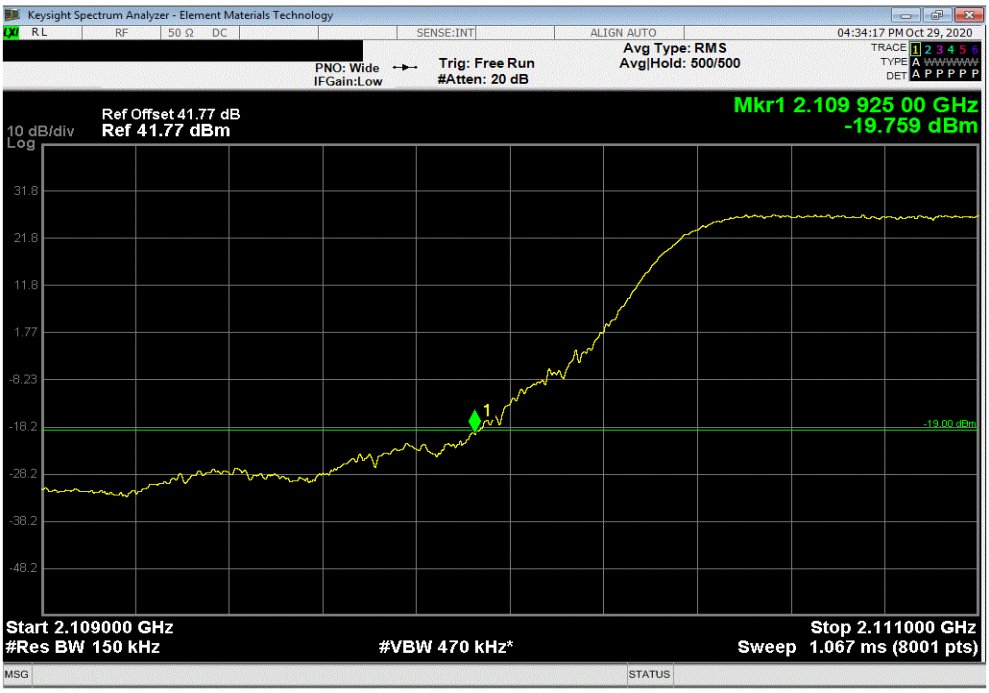
BAND EDGE COMPLIANCE PART 1

TbtTx 2020.10.20.0 BETA XMit 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 64-QAM Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.42	-19	Pass



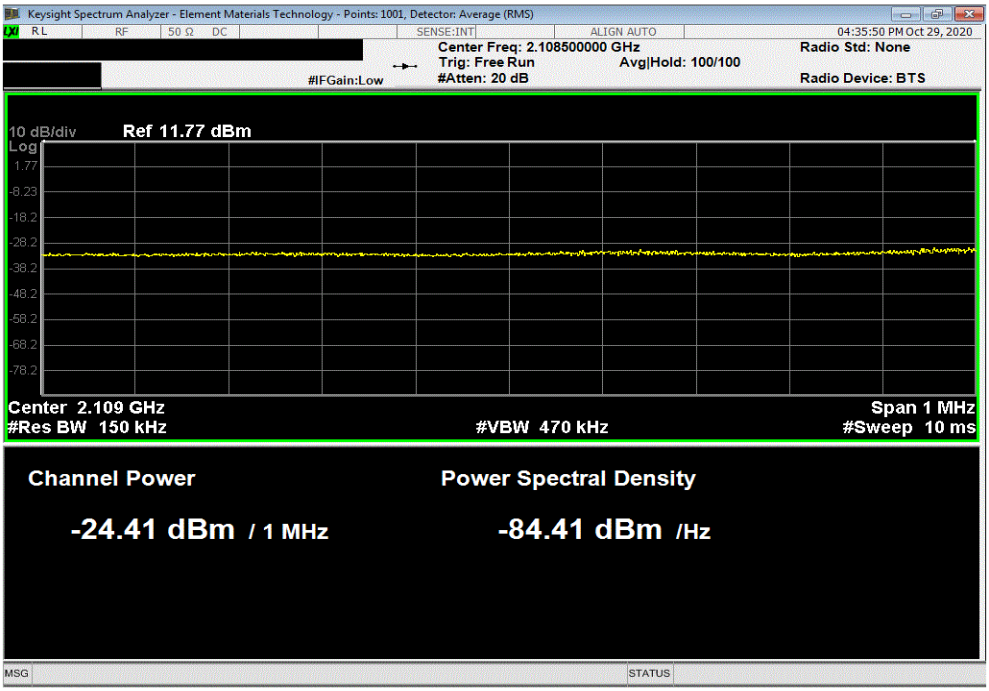
Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 256-QAM Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-19.76	-19	Pass



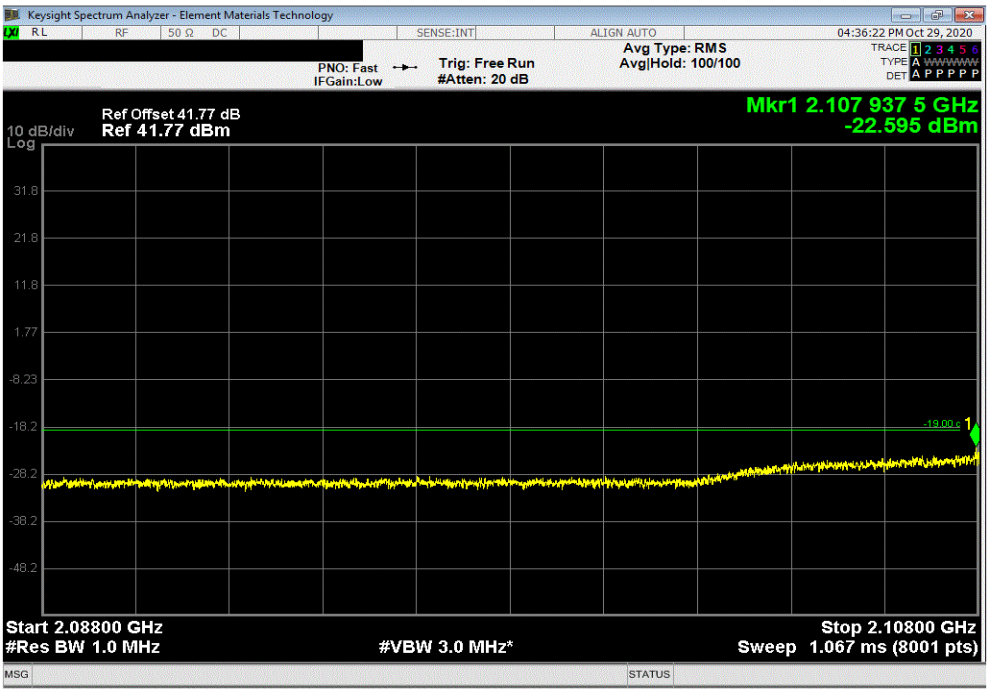
BAND EDGE COMPLIANCE PART 1

TbtTx 2020.10.20.0 BETA XMit 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 256-QAM Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.41	-19	Pass

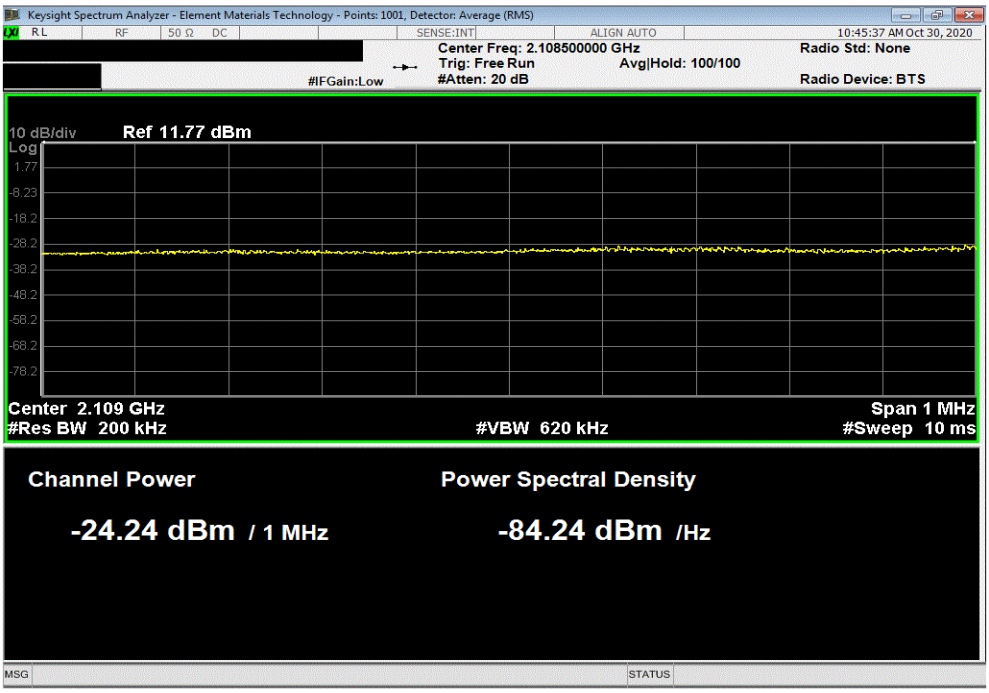


Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 256-QAM Modulation, Low Channel 2117.5 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-22.60	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-20.33	-19	Pass

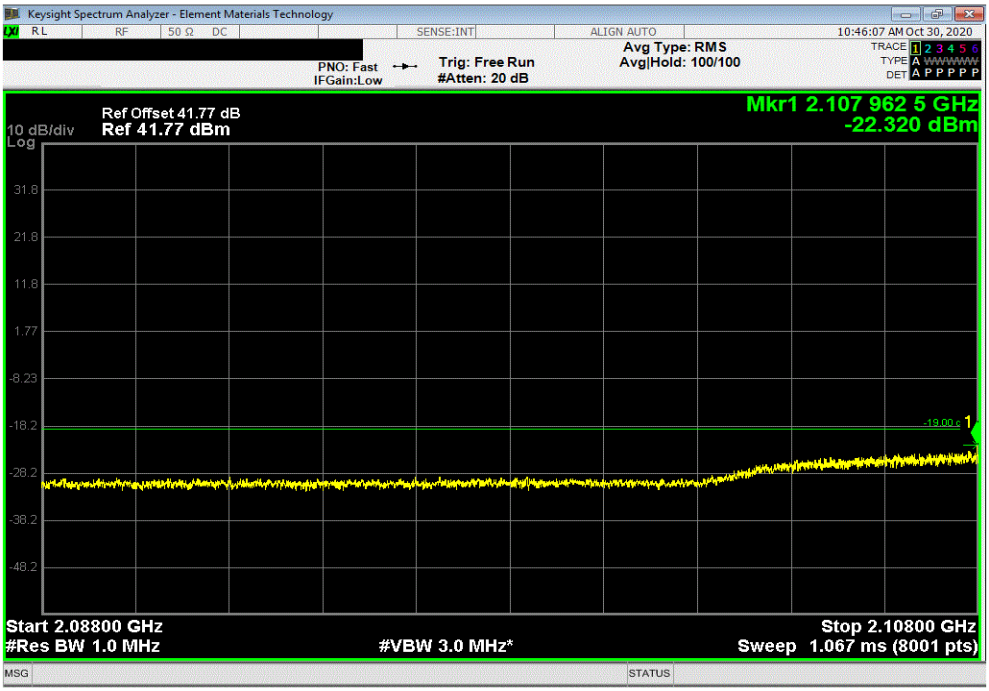
Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.24	-19	Pass



BAND EDGE COMPLIANCE PART 1

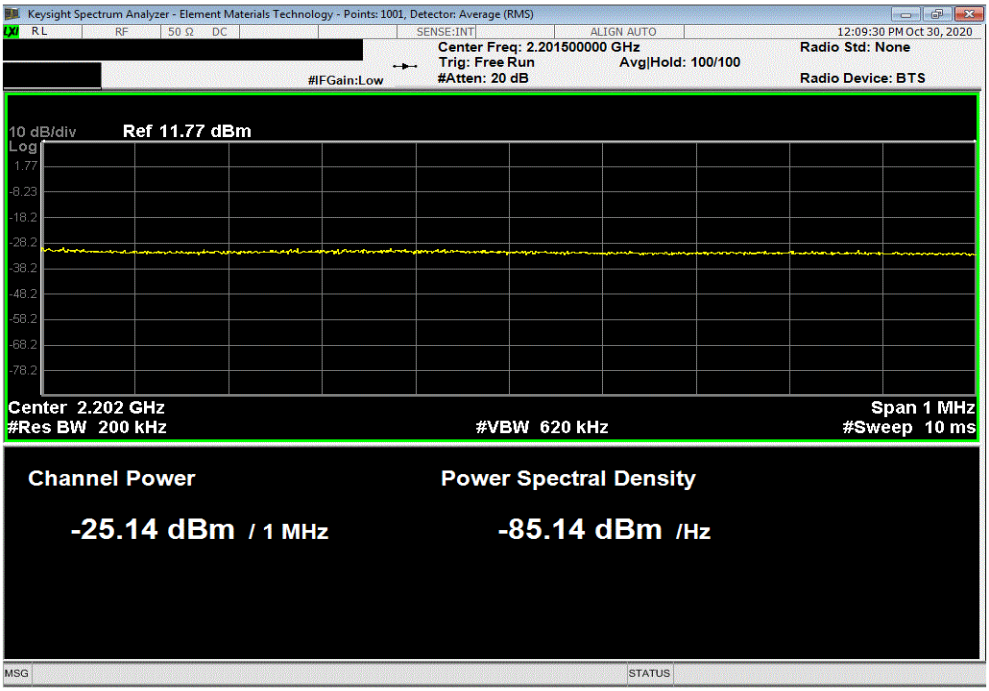
TbtTx 2020.10.20.0 BETA XMit 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-22.32	-19	Pass

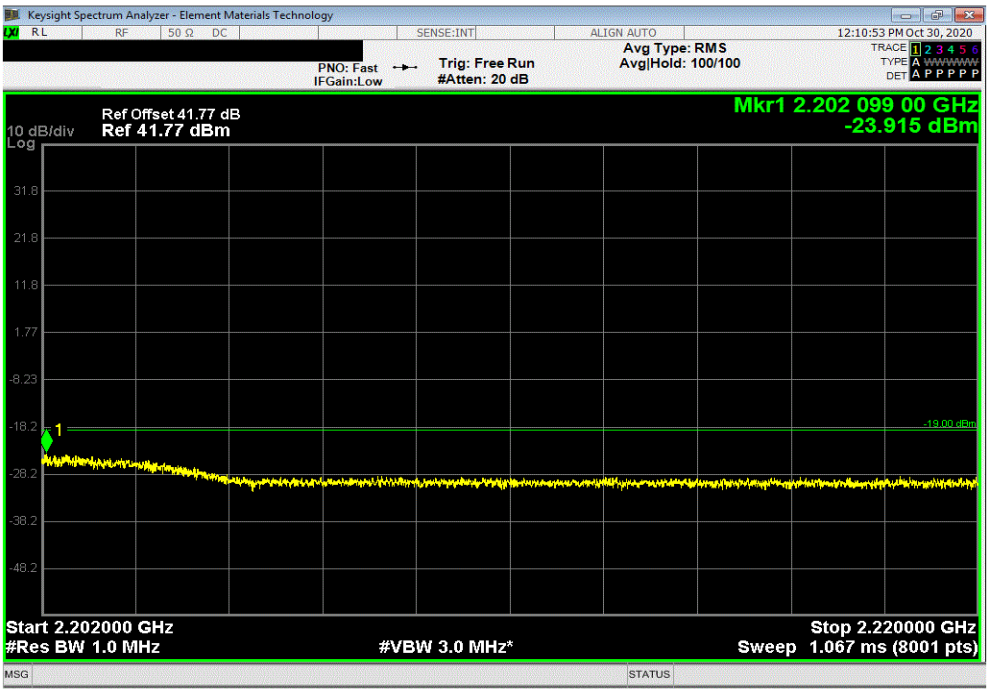


Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.19	-19	Pass

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-25.14	-19	Pass

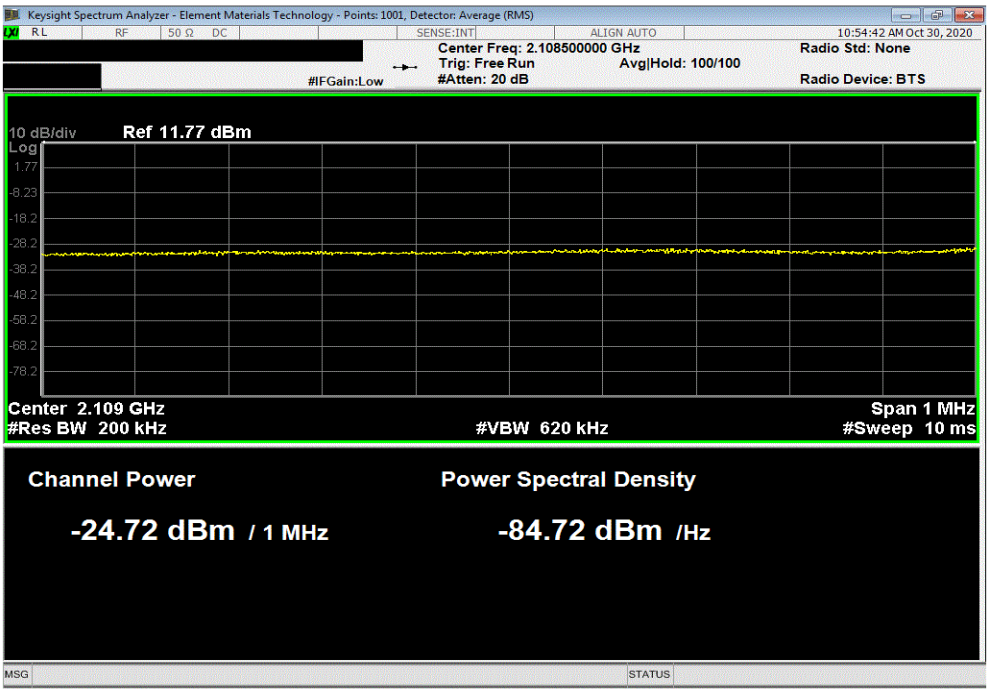


Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.92	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.01	-19	Pass

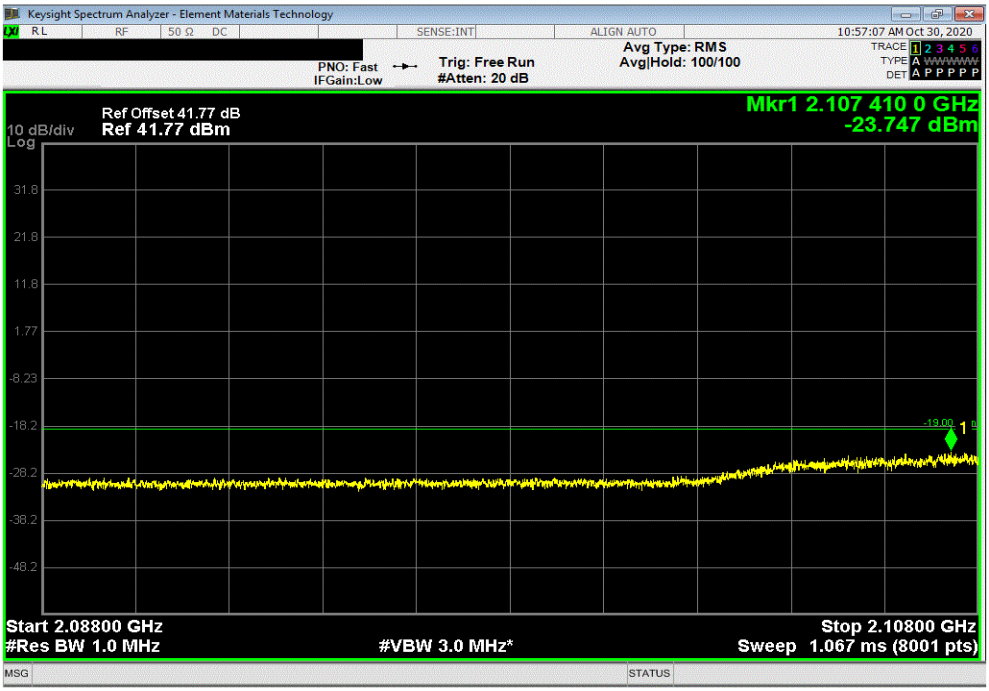
Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.72	-19	Pass



BAND EDGE COMPLIANCE PART 1

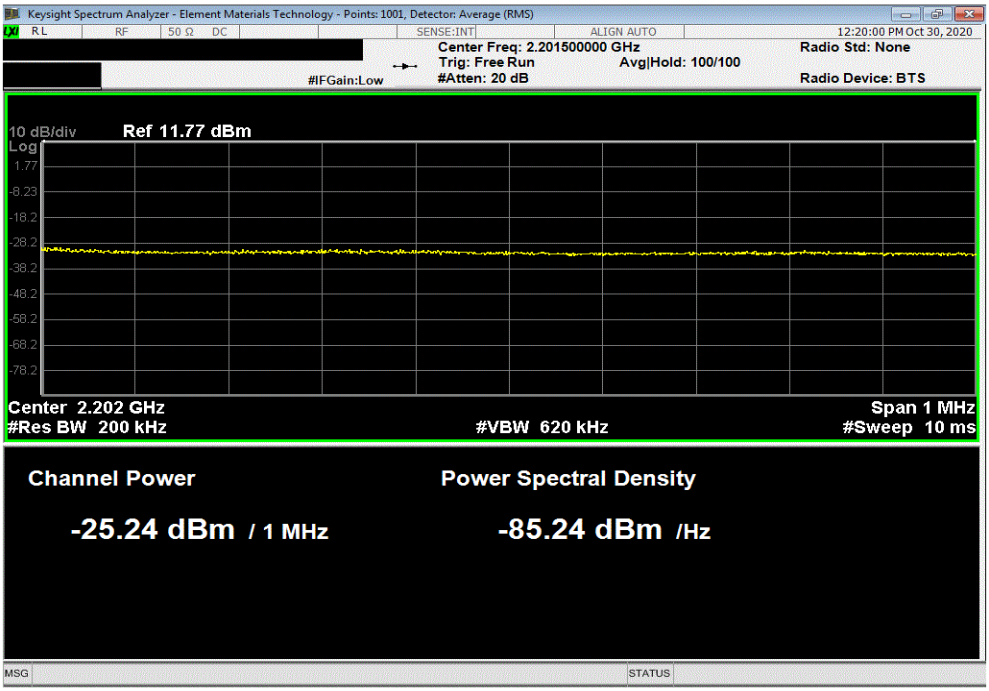
TbtTx 2020.10.20.0 BETA XMit 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.75	-19	Pass

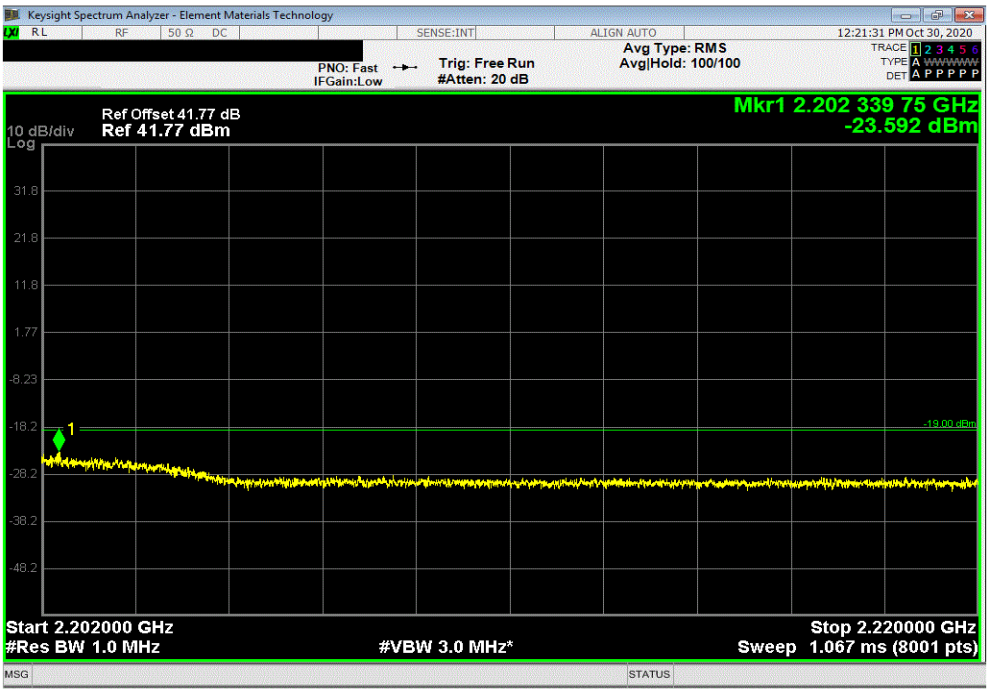


Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.78	-19	Pass

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-25.24	-19	Pass



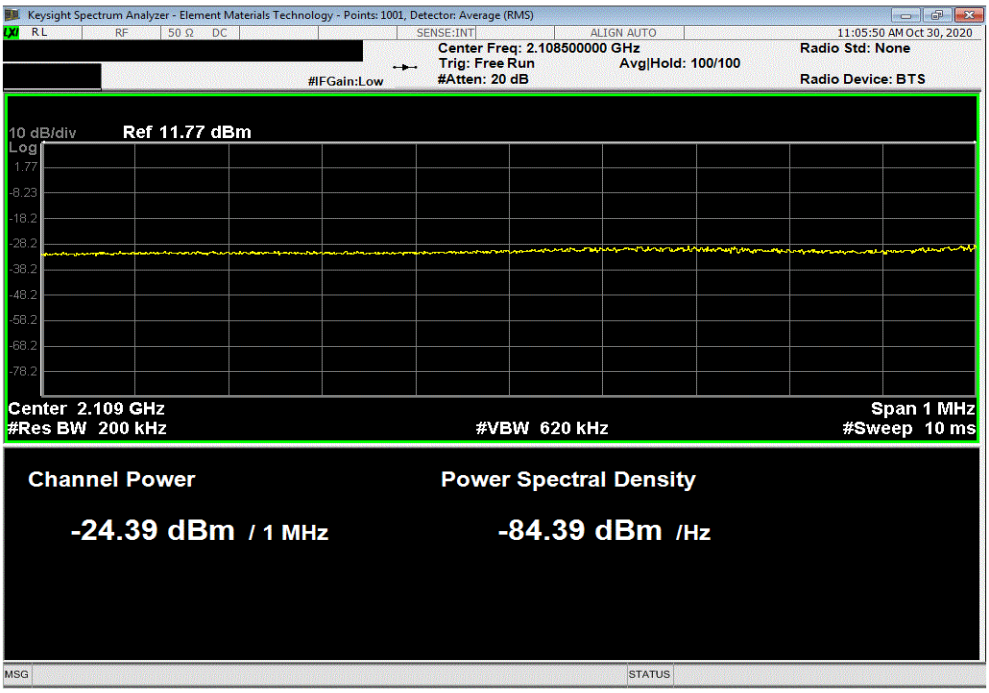
Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.59	-19	Pass



BAND EDGE COMPLIANCE PART 1

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-20.92	-19	Pass

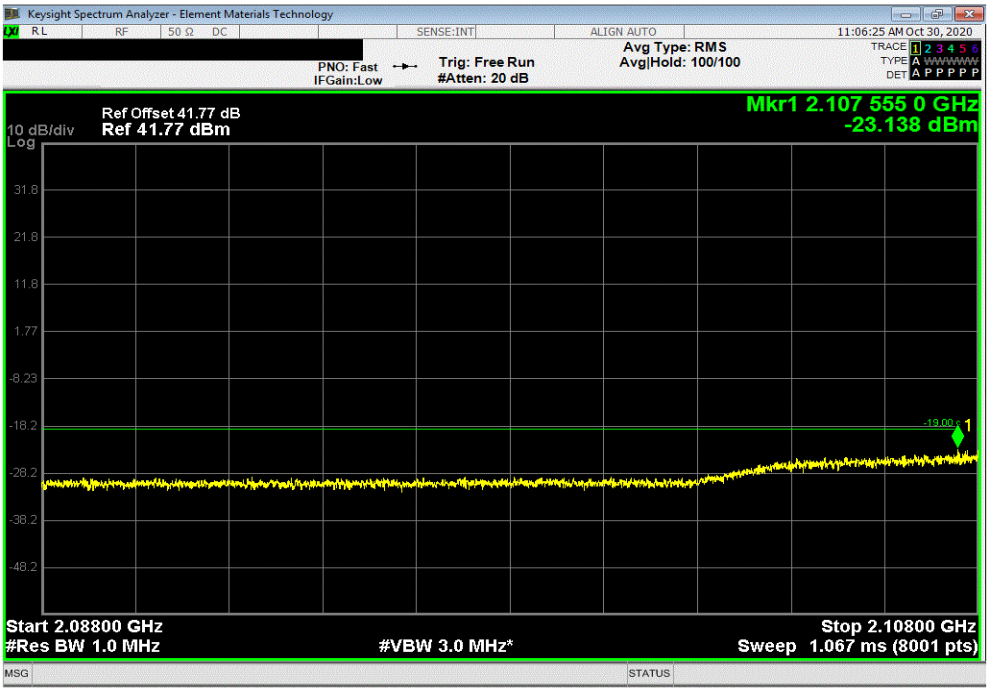
Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.39	-19	Pass



BAND EDGE COMPLIANCE PART 1

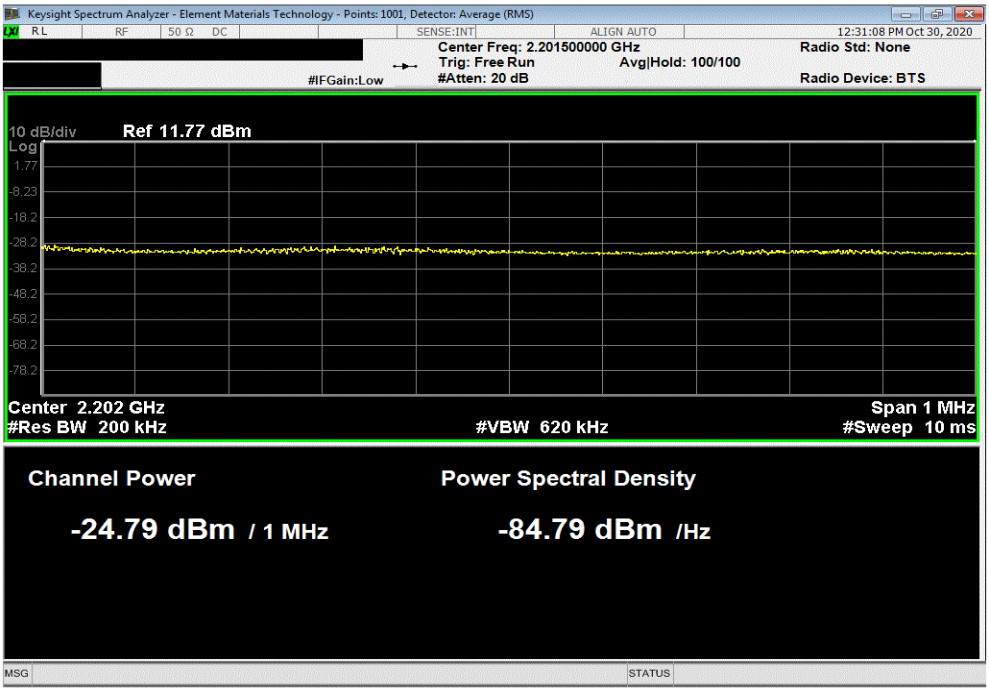
TbtTx 2020.10.20.0 BETA XMit 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.14	-19	Pass

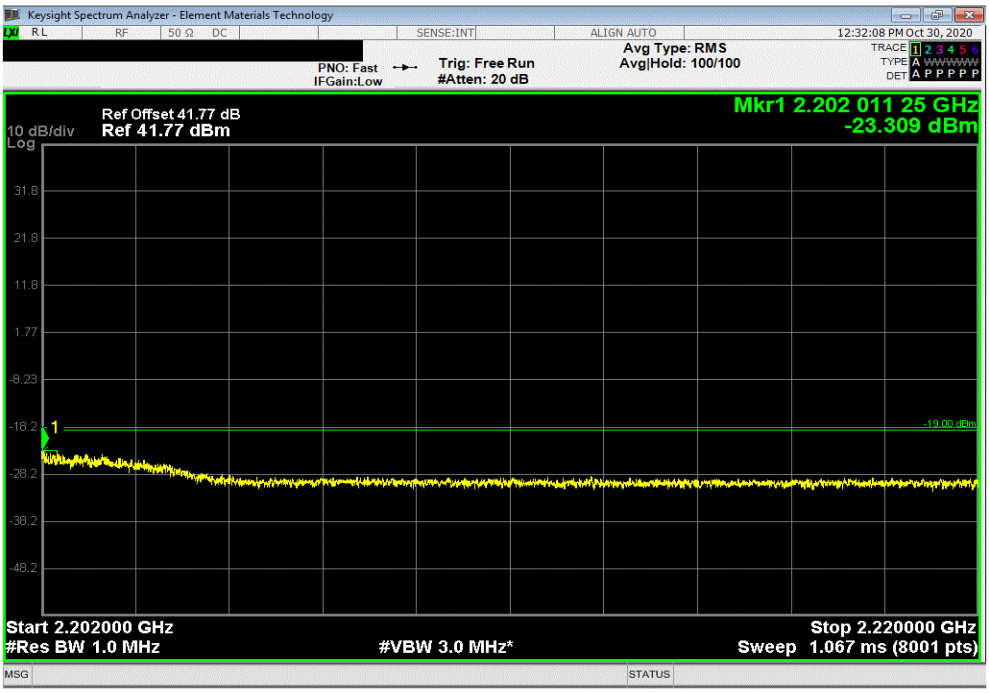


Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-21.43	-19	Pass

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.79	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.31	-19	Pass

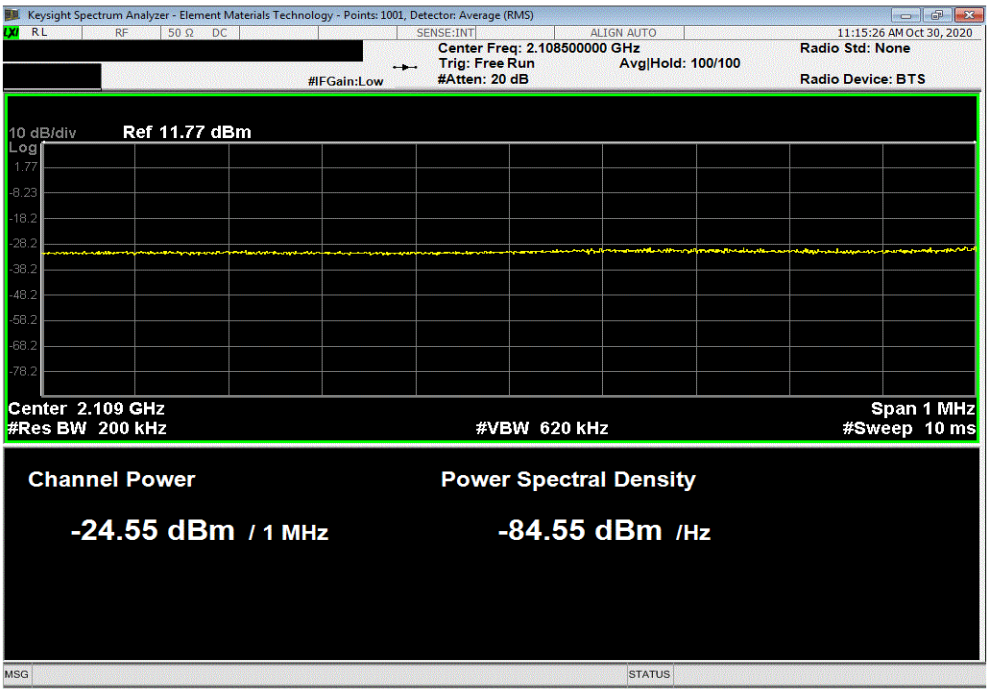


BAND EDGE COMPLIANCE PART 1

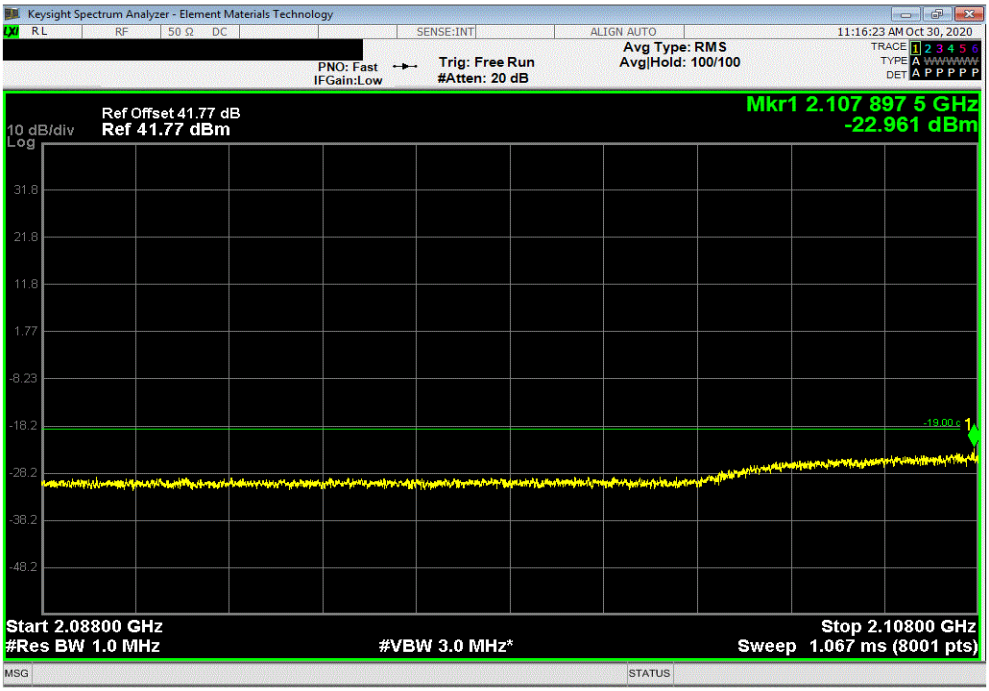
TbtTx 2020.10.20.0 BETA XMit 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.29	-19	Pass

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.55	-19	Pass

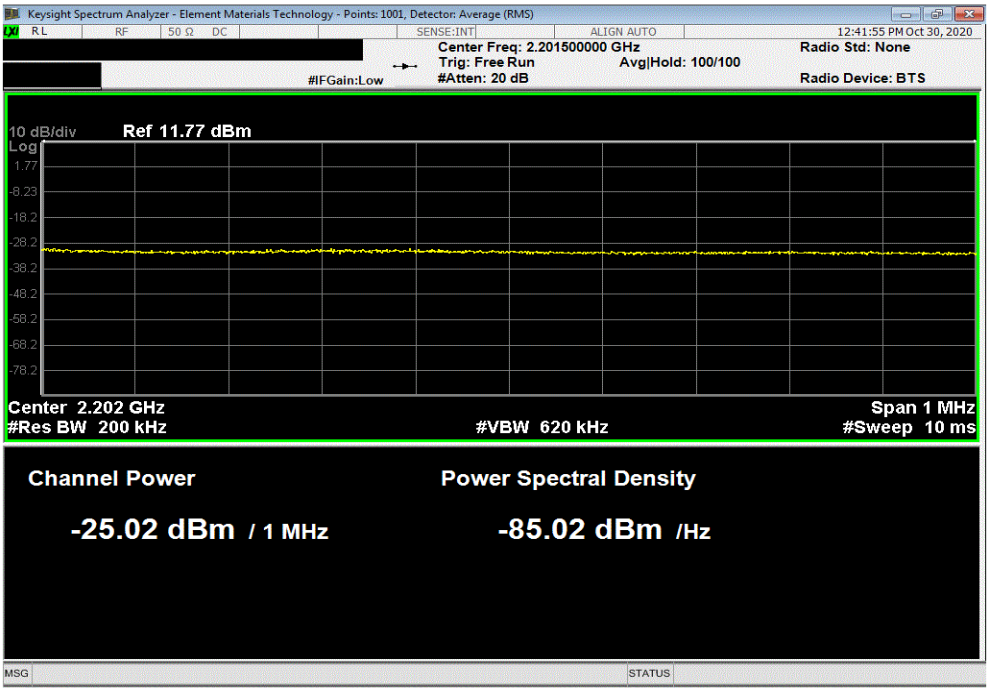
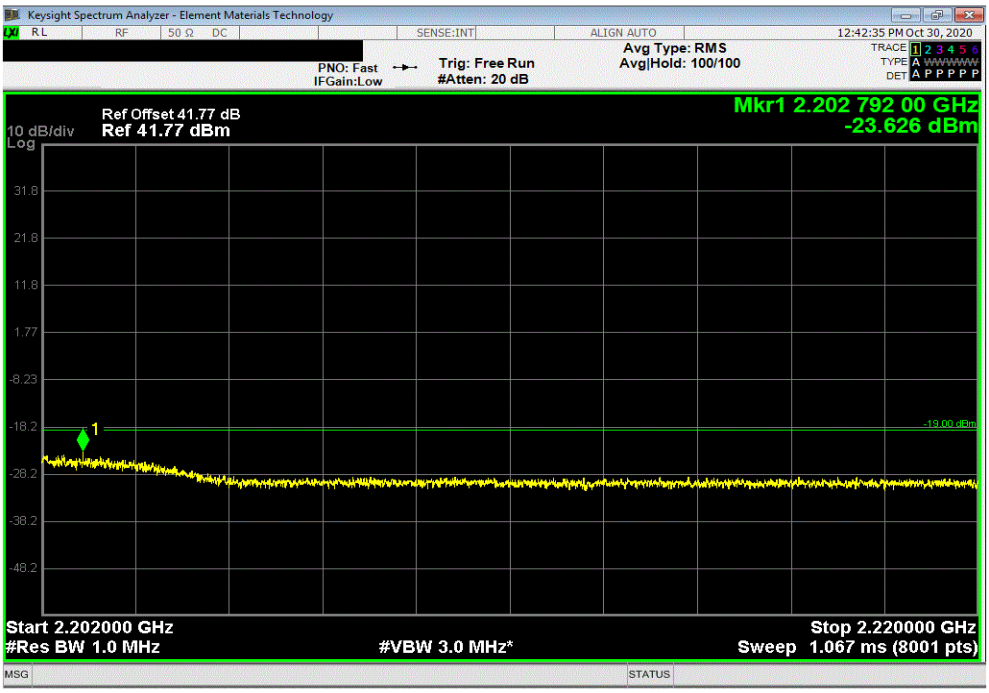


Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 2120 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-22.96	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.03	-19	Pass

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-25.02	-19	Pass



Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 2190 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-23.63	-19	Pass