

BAND EDGE COMPLIANCE - 4 PORT MODE



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
Block - DC	Fairview Microwave	SD3379	AMM	21-Sep-20	21-Sep-21
Generator - Signal	Agilent	N5173B	TIW	17-Jul-20	17-Jul-23

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 section 27.53(h)(1), 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), 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 (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 (FRIG) as the original certification test. The FRIG antenna ports are essentially electrically identical (the RF power variation between antenna ports is small) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

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TMxTx 2020.10.20.0 BETA XMx 2020.03.25.0

EUT: FRIG (C2PC FCC/ISED Approval for 5G)		Work Order: NOKI0025	
Serial Number: RY142309120		Date: 3-Dec-20	
Customer: Nokia Solutions and Networks		Temperature: 23.4 °C	
Attendees: Mitchell Hill, John Rattanavong		Humidity: 28.5% RH	
Project: None		Barometric Pres.: 1028 mbar	
Tested by: Brandon Hobbs		Power: 54 VDC	
TEST SPECIFICATIONS		Job Site: TX05	
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. AWS Band 1 carriers are enabled at maximum power (MIMO 4x4, 30 watts/carrier). Band Edge measurements were made for a single carrier on port 1.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Frequency Range	Value (dBm) Limit (dBm) Result
30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz			
5 MHz Bandwidth			
QPSK Modulation			
Low Channel 2112.5 MHz		1	-19.53 -19 Pass
Low Channel 2112.5 MHz		2	-25.07 -19 Pass
Low Channel 2112.5 MHz		3	-25.56 -19 Pass
High Channel 2152.5 MHz		1	-20.36 -19 Pass
High Channel 2152.5 MHz		2	-24.75 -19 Pass
High Channel 2152.5 MHz		3	-24.44 -19 Pass
16-QAM Modulation			
Low Channel 2112.5 MHz		1	-21.85 -19 Pass
Low Channel 2112.5 MHz		2	-24.94 -19 Pass
Low Channel 2112.5 MHz		3	-25.55 -19 Pass
High Channel 2152.5 MHz		1	-21.05 -19 Pass
High Channel 2152.5 MHz		2	-24.77 -19 Pass
High Channel 2152.5 MHz		3	-24.41 -19 Pass
64-QAM Modulation			
Low Channel 2112.5 MHz		1	-22.51 -19 Pass
Low Channel 2112.5 MHz		2	-24.7 -19 Pass
Low Channel 2112.5 MHz		3	-25.13 -19 Pass
High Channel 2152.5 MHz		1	-21.02 -19 Pass
High Channel 2152.5 MHz		2	-24.78 -19 Pass
High Channel 2152.5 MHz		3	-24.6 -19 Pass
256-QAM Modulation			
Low Channel 2112.5 MHz		1	-22.05 -19 Pass
Low Channel 2112.5 MHz		2	-24.62 -19 Pass
Low Channel 2112.5 MHz		3	-25.13 -19 Pass
High Channel 2152.5 MHz		1	-21.31 -19 Pass
High Channel 2152.5 MHz		2	-24.85 -19 Pass
High Channel 2152.5 MHz		3	-24.79 -19 Pass
10 MHz Bandwidth			
QPSK Modulation			
Low Channel 2115 MHz		1	-23.03 -19 Pass
Low Channel 2115 MHz		2	-25.77 -19 Pass
Low Channel 2115 MHz		3	-25.84 -19 Pass
High Channel 2150 MHz		1	-24.37 -19 Pass
High Channel 2150 MHz		2	-26.63 -19 Pass
High Channel 2150 MHz		3	-26.47 -19 Pass
16-QAM Modulation			
Low Channel 2115 MHz		1	-23.23 -19 Pass
Low Channel 2115 MHz		2	-25.56 -19 Pass
Low Channel 2115 MHz		3	-25.4 -19 Pass
High Channel 2150 MHz		1	-25.31 -19 Pass
High Channel 2150 MHz		2	-26.72 -19 Pass
High Channel 2150 MHz		3	-26.38 -19 Pass
64-QAM Modulation			
Low Channel 2115 MHz		1	-24.93 -19 Pass
Low Channel 2115 MHz		2	-25.87 -19 Pass
Low Channel 2115 MHz		3	-25.75 -19 Pass
High Channel 2150 MHz		1	-24.26 -19 Pass
High Channel 2150 MHz		2	-26.7 -19 Pass
High Channel 2150 MHz		3	-26.57 -19 Pass
256-QAM Modulation			
Low Channel 2115 MHz		1	-22.28 -19 Pass
Low Channel 2115 MHz		2	-26.03 -19 Pass
Low Channel 2115 MHz		3	-25.74 -19 Pass
High Channel 2150 MHz		1	-23.19 -19 Pass
High Channel 2150 MHz		2	-26.64 -19 Pass
High Channel 2150 MHz		3	-26.61 -19 Pass
15 MHz Bandwidth			
QPSK Modulation			
Low Channel 2117.5 MHz		1	-20.99 -19 Pass
Low Channel 2117.5 MHz		2	-26.78 -19 Pass
Low Channel 2117.5 MHz		3	-26.46 -19 Pass
High Channel 2147.5 MHz		1	-20.2 -19 Pass
High Channel 2147.5 MHz		2	-27.53 -19 Pass
High Channel 2147.5 MHz		3	-27.42 -19 Pass
16-QAM Modulation			
Low Channel 2117.5 MHz		1	-21.29 -19 Pass
Low Channel 2117.5 MHz		2	-26.39 -19 Pass
Low Channel 2117.5 MHz		3	-26.19 -19 Pass
High Channel 2147.5 MHz		1	-20.15 -19 Pass
High Channel 2147.5 MHz		2	-27.38 -19 Pass
High Channel 2147.5 MHz		3	-27.25 -19 Pass
64-QAM Modulation			
Low Channel 2117.5 MHz		1	-24.86 -19 Pass

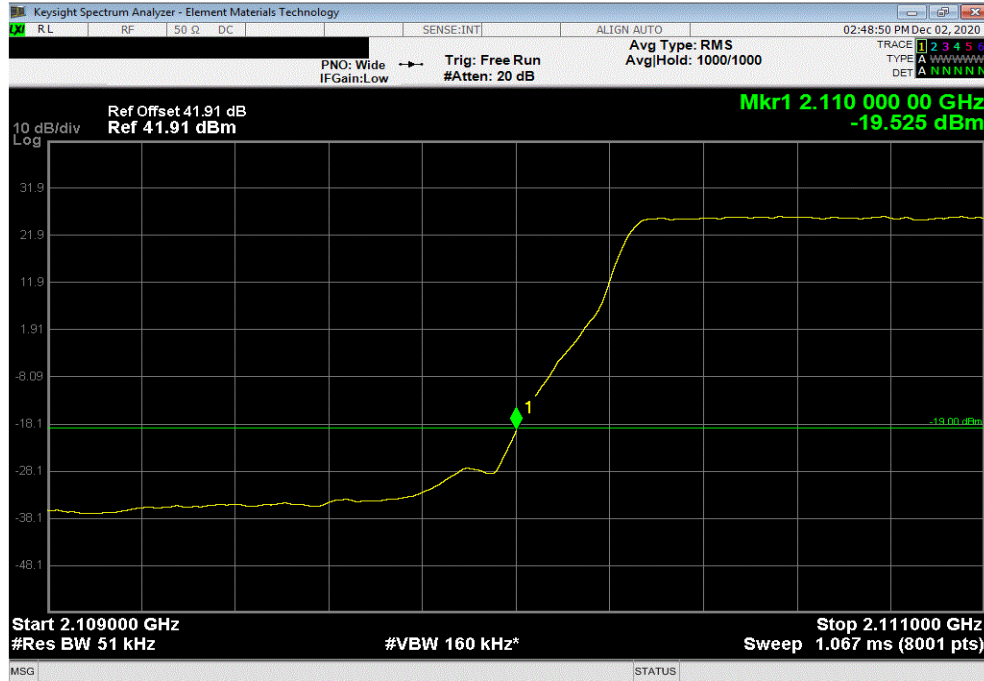
	Low Channel 2117.5 MHz	2	-26.7	-19	Pass
	Low Channel 2117.5 MHz	3	-26.4	-19	Pass
	High Channel 2147.5 MHz	1	-20.15	-19	Pass
	High Channel 2147.5 MHz	2	-27.53	-19	Pass
	High Channel 2147.5 MHz	3	-27.15	-19	Pass
256-QAM Modulation					
	Low Channel 2117.5 MHz	1	-21.43	-19	Pass
	Low Channel 2117.5 MHz	2	-26.89	-19	Pass
	Low Channel 2117.5 MHz	3	-26.61	-19	Pass
	High Channel 2147.5 MHz	1	-21.81	-19	Pass
	High Channel 2147.5 MHz	2	-27.5	-19	Pass
	High Channel 2147.5 MHz	3	-27.2	-19	Pass
20 MHz Bandwidth					
QPSK Modulation					
	Low Channel 2120 MHz	1	-19.83	-19	Pass
	Low Channel 2120 MHz	2	-26.97	-19	Pass
	Low Channel 2120 MHz	3	-26.49	-19	Pass
	High Channel 2145 MHz	1	-20.33	-19	Pass
	High Channel 2145 MHz	2	-27.97	-19	Pass
	High Channel 2145 MHz	3	-27.31	-19	Pass
16-QAM Modulation					
	Low Channel 2120 MHz	1	-20.04	-19	Pass
	Low Channel 2120 MHz	2	-26.64	-19	Pass
	Low Channel 2120 MHz	3	-26.37	-19	Pass
	High Channel 2145 MHz	1	-19.88	-19	Pass
	High Channel 2145 MHz	2	-27.78	-19	Pass
	High Channel 2145 MHz	3	-27.32	-19	Pass
64-QAM Modulation					
	Low Channel 2120 MHz	1	-20.29	-19	Pass
	Low Channel 2120 MHz	2	-27.17	-19	Pass
	Low Channel 2120 MHz	3	-26.94	-19	Pass
	High Channel 2145 MHz	1	-20.75	-19	Pass
	High Channel 2145 MHz	2	-27.9	-19	Pass
	High Channel 2145 MHz	3	-27.54	-19	Pass
256-QAM Modulation					
	Low Channel 2120 MHz	1	-19.81	-19	Pass
	Low Channel 2120 MHz	2	-27.08	-19	Pass
	Low Channel 2120 MHz	3	-26.69	-19	Pass
	High Channel 2145 MHz	1	-20.46	-19	Pass
	High Channel 2145 MHz	2	-27.94	-19	Pass
	High Channel 2145 MHz	3	-27.62	-19	Pass

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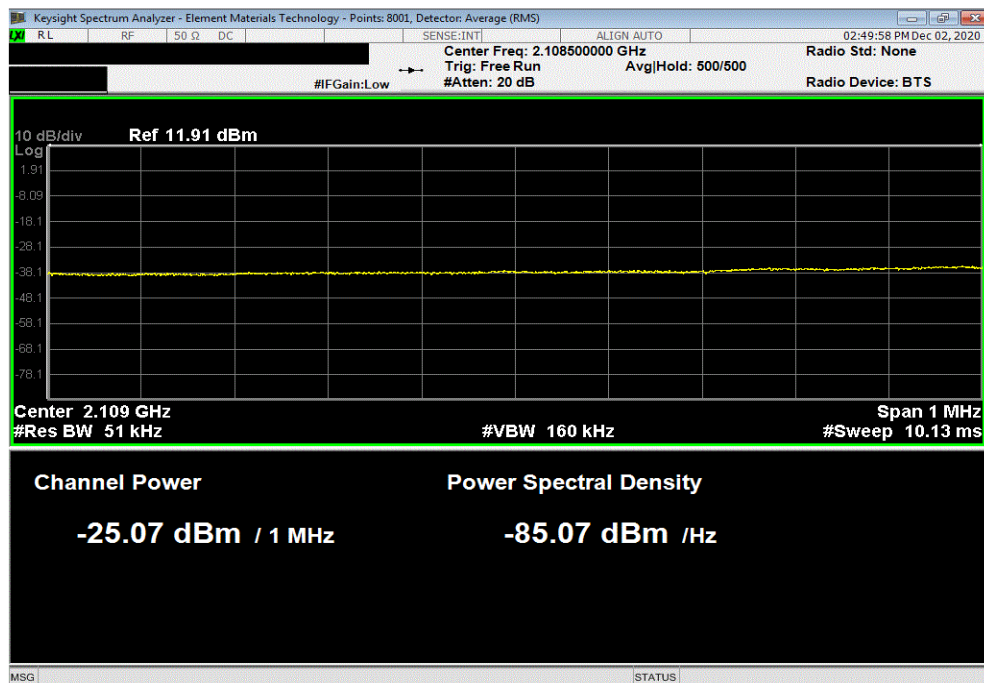


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel 2112.5 MHz						
Frequency Range				Value (dBm)	Limit (dBm)	Result
	1			-19.53	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel 2112.5 MHz						
Frequency Range				Value (dBm)	Limit (dBm)	Result
	2			-25.07	-19	Pass

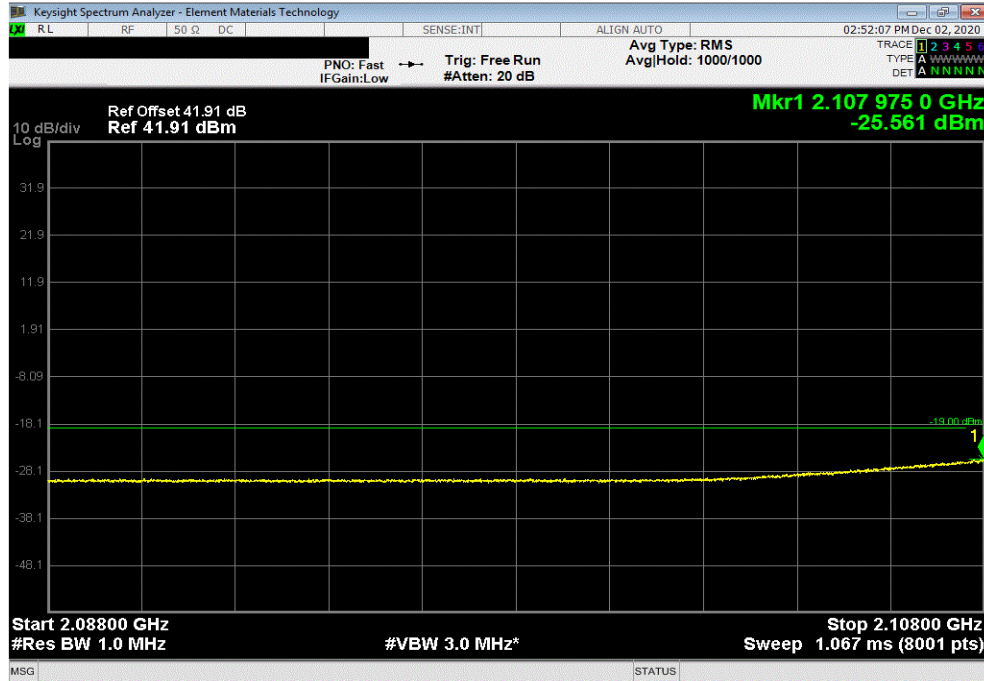


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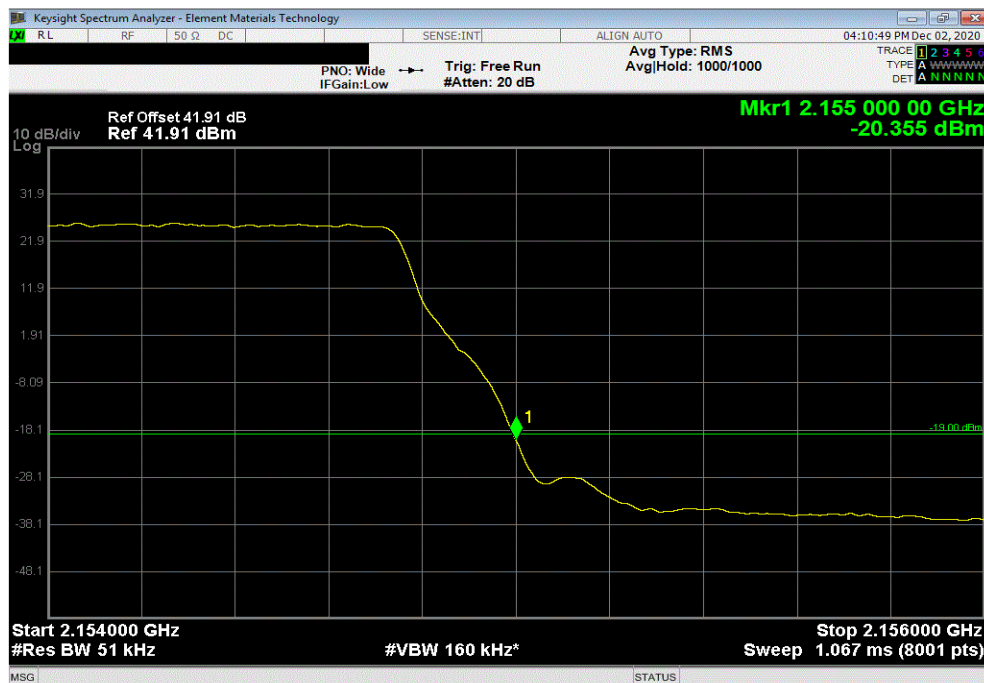


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel 2112.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-25.56	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel 2152.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-20.36	-19	Pass

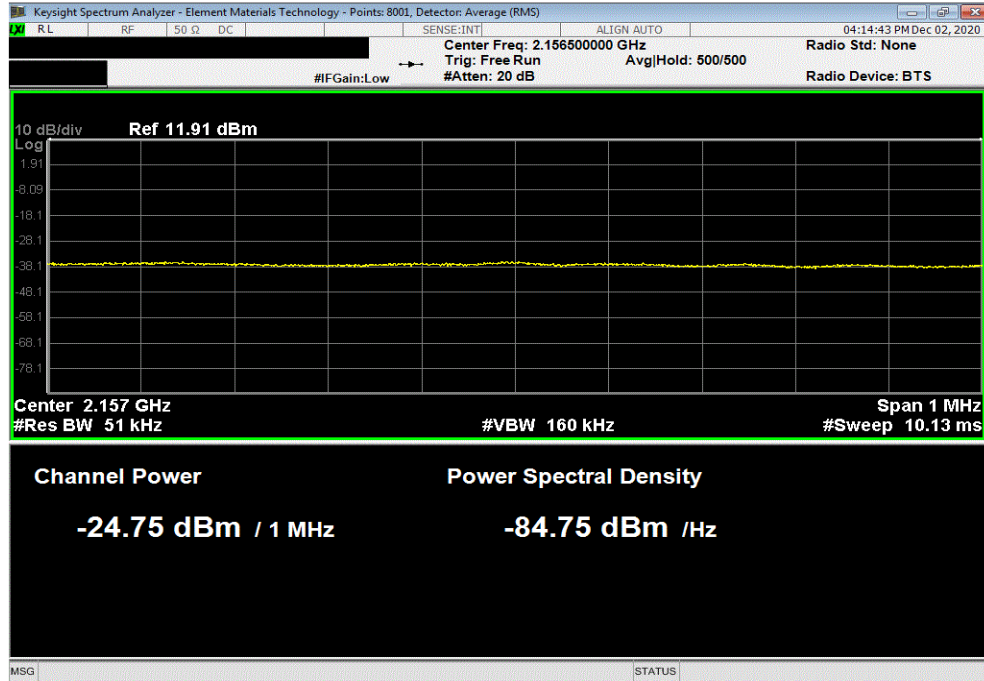


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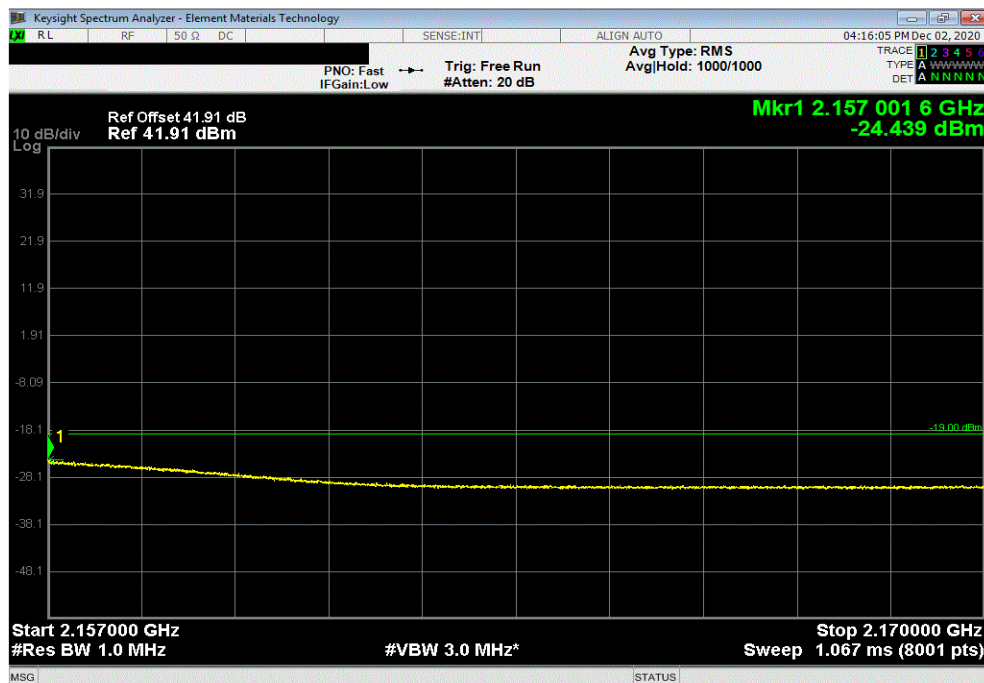


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel 2152.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			2	-24.75	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel 2152.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-24.44	-19	Pass

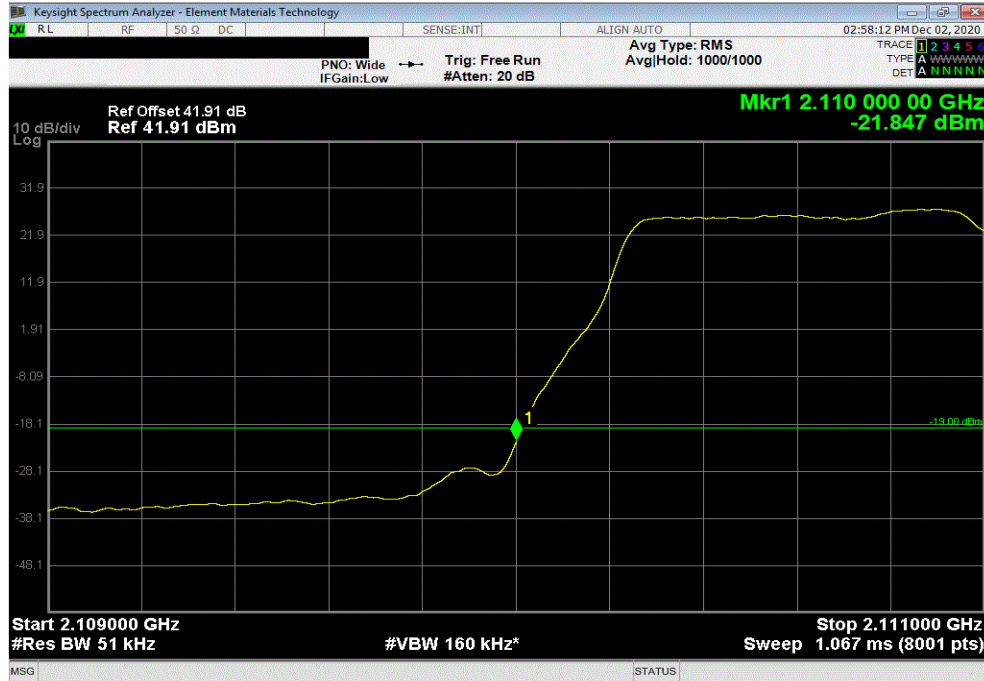


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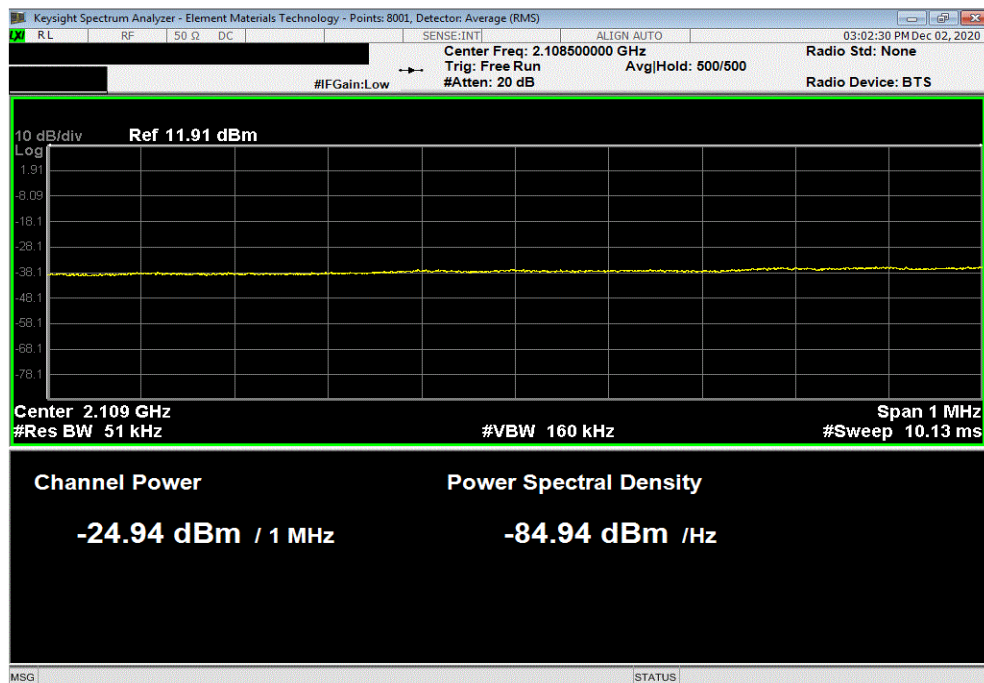


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel 2112.5 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
1		-21.85		-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel 2112.5 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
2		-24.94		-19	Pass	

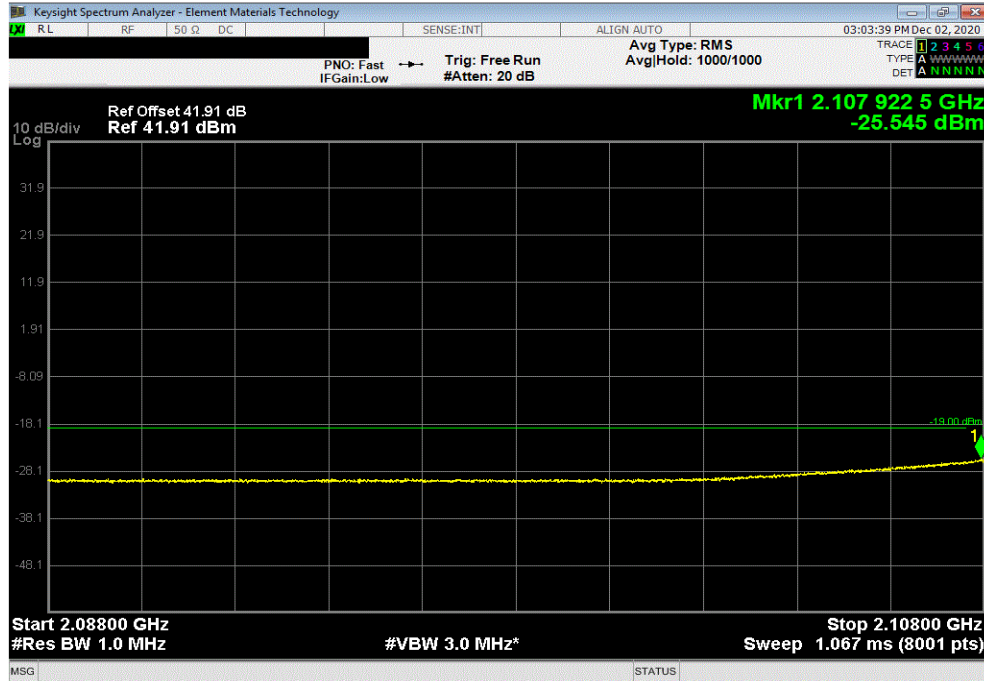


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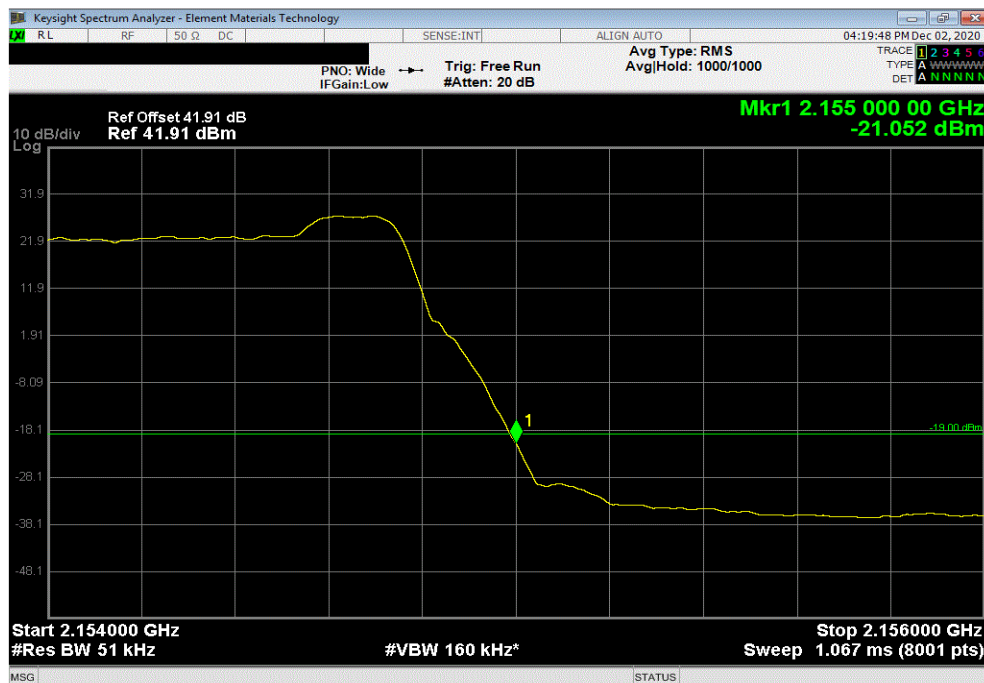


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel 2112.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-25.55	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel 2152.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-21.05	-19	Pass

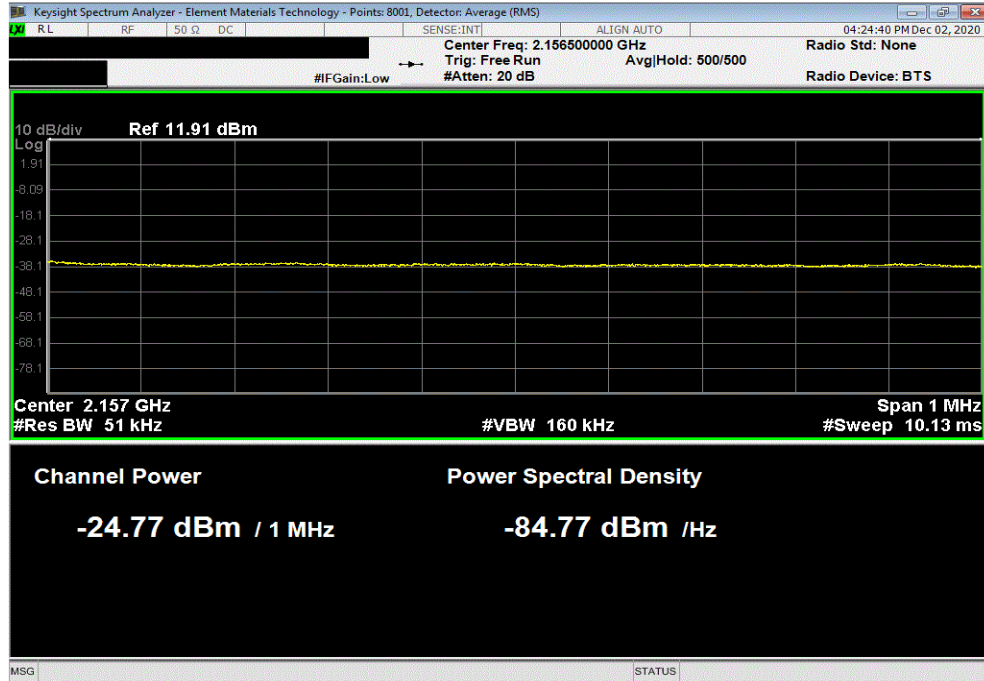


BAND EDGE COMPLIANCE - 4 PORT MODE

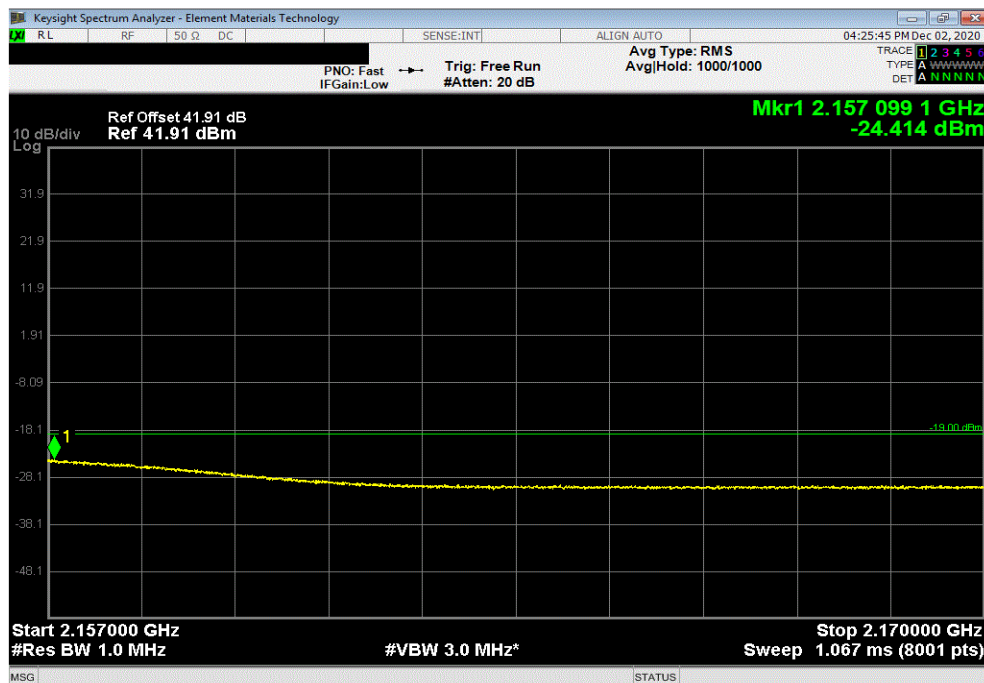


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel 2152.5 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
2		-24.77		-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel 2152.5 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
3		-24.41		-19	Pass	

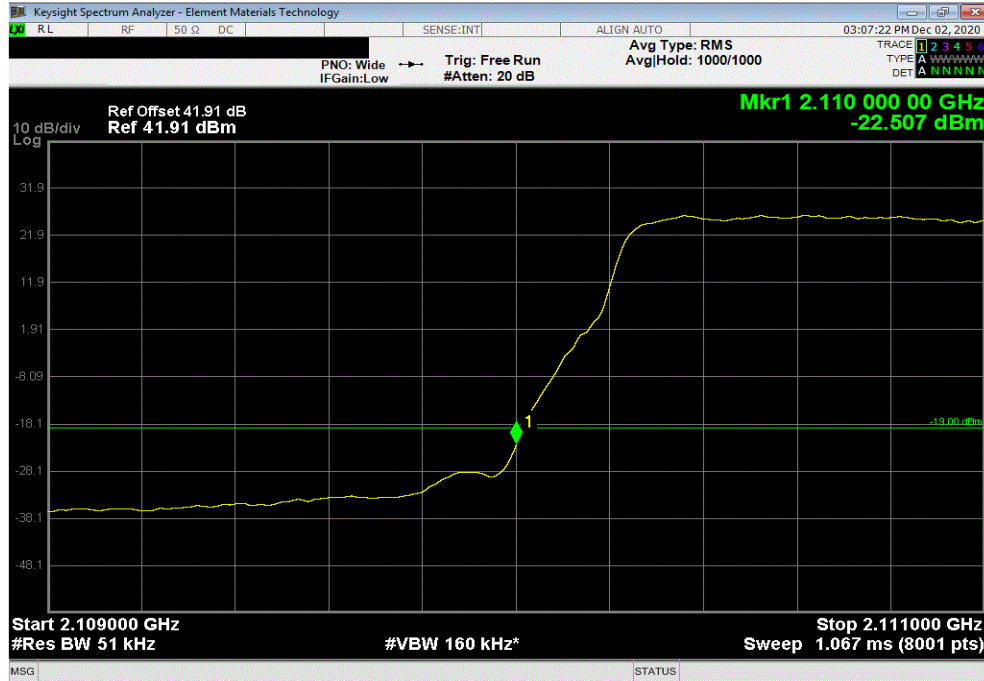


BAND EDGE COMPLIANCE - 4 PORT MODE

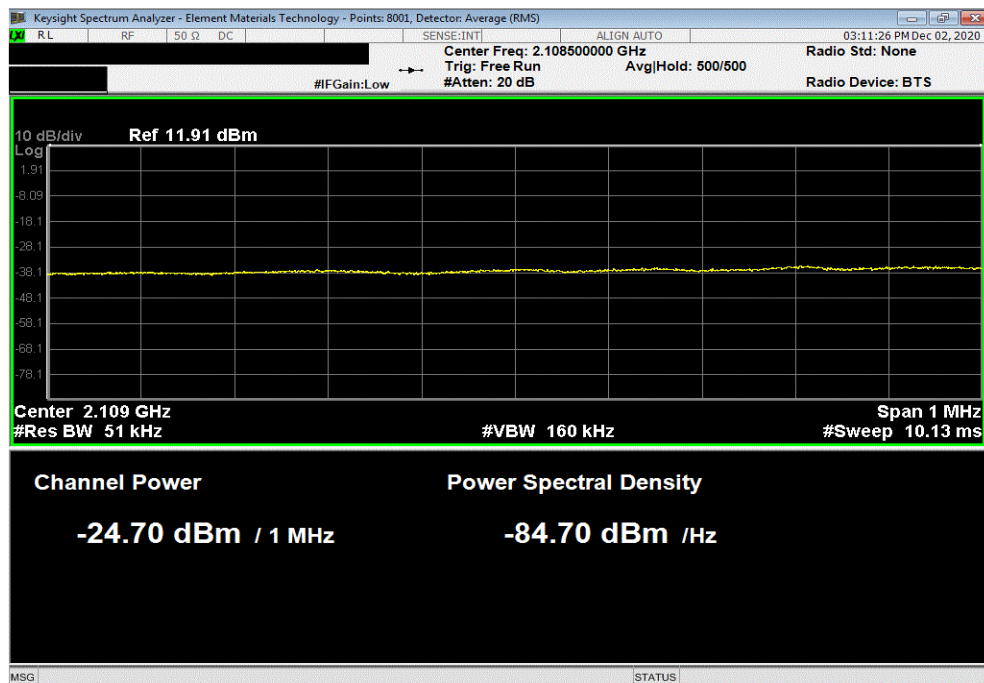


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel 2112.5 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
1			-22.51		-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel 2112.5 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
2			-24.70		-19	Pass

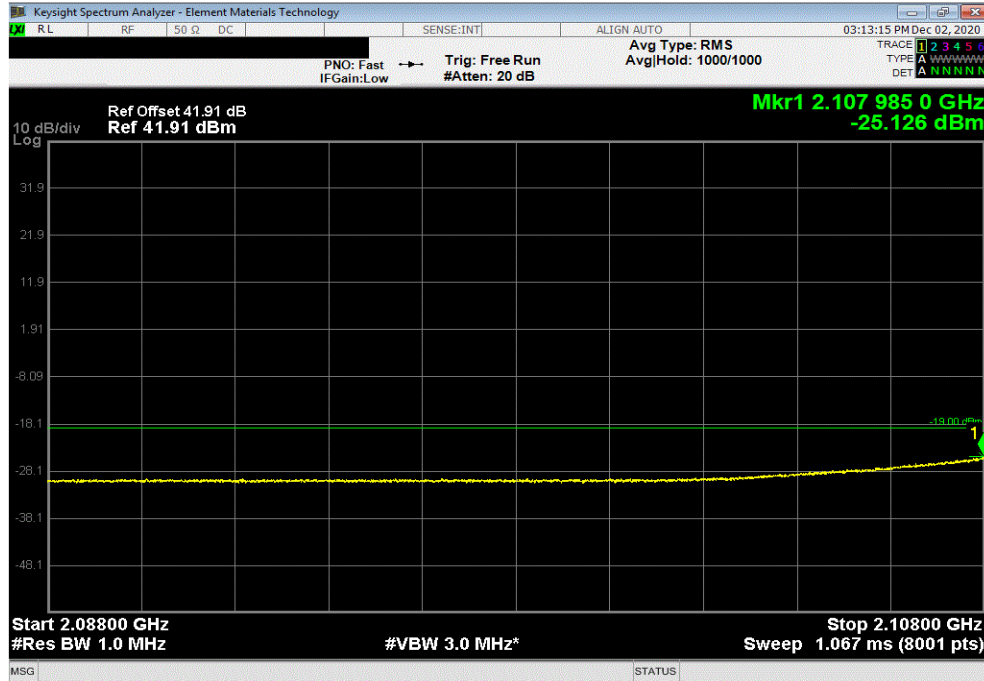


BAND EDGE COMPLIANCE - 4 PORT MODE

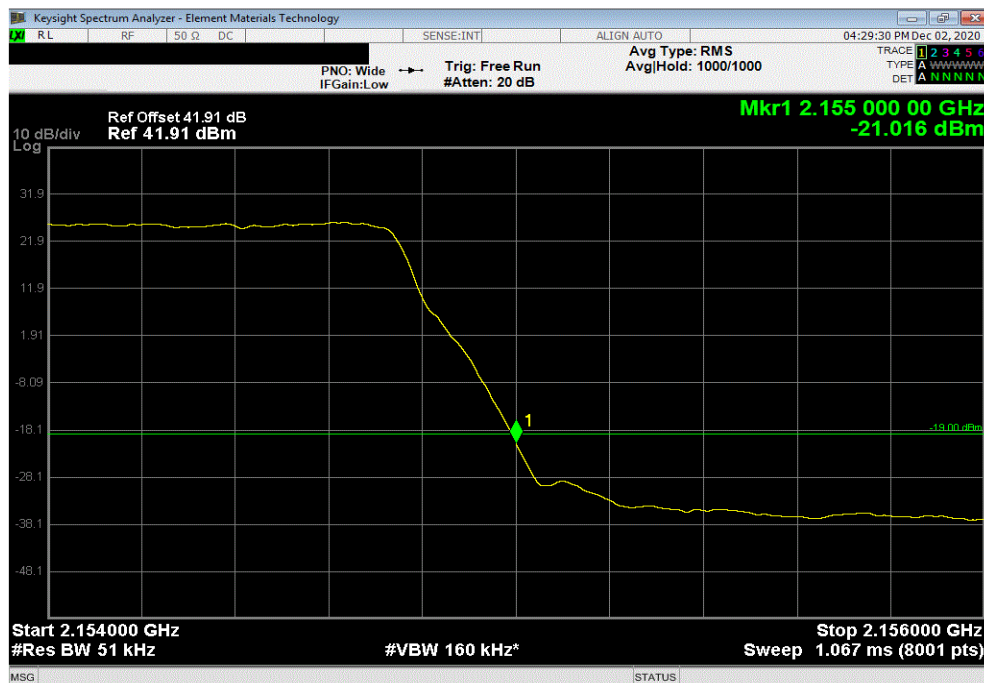


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel 2112.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-25.13	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel 2152.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-21.02	-19	Pass

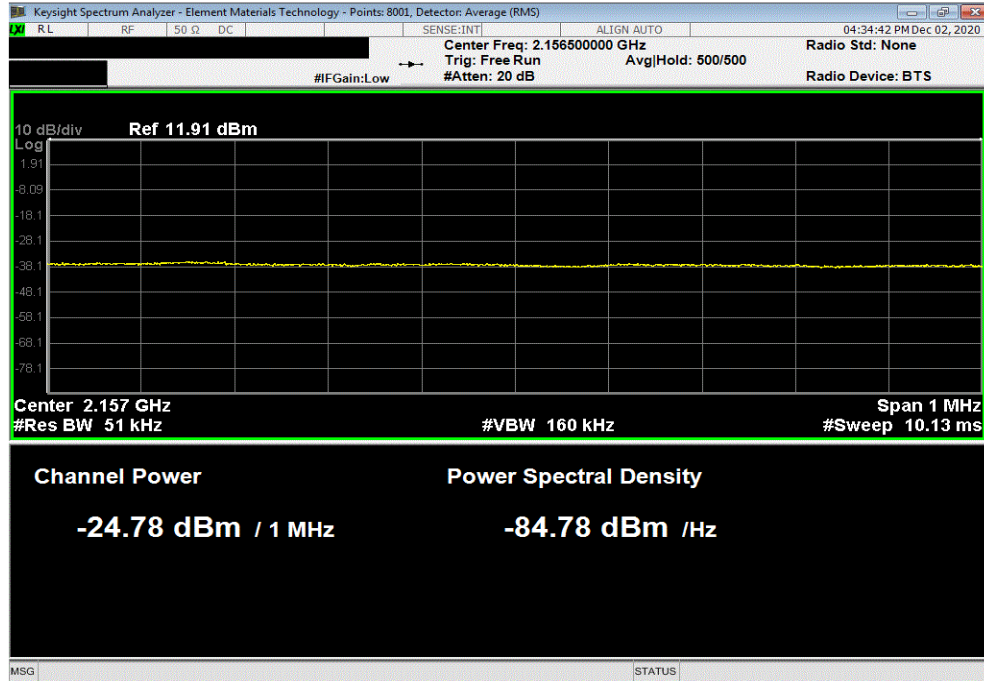


BAND EDGE COMPLIANCE - 4 PORT MODE

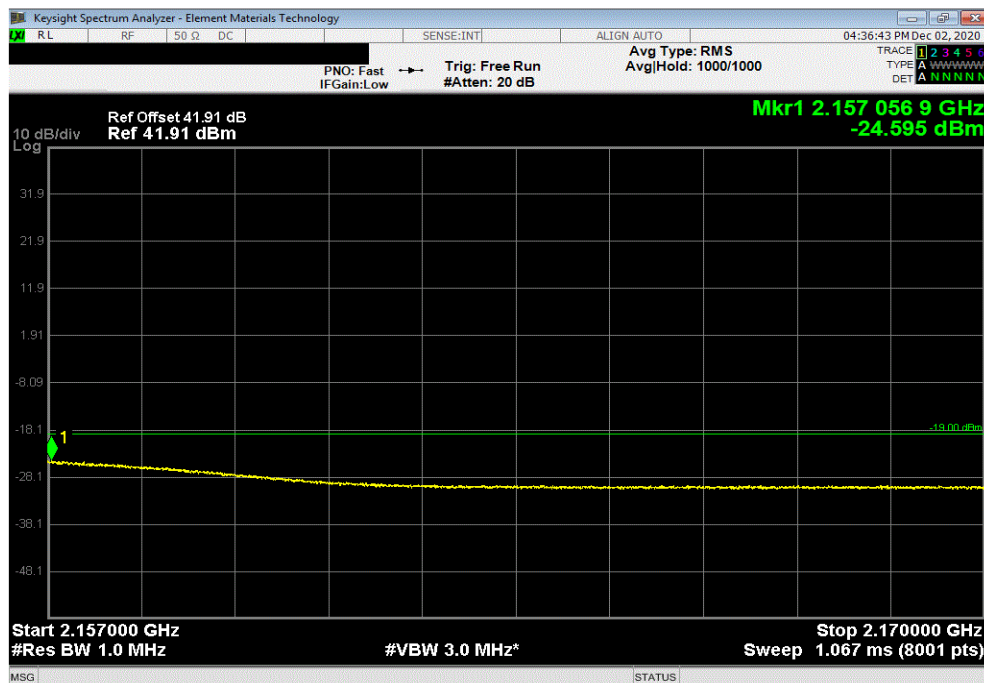


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel 2152.5 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
2		-24.78		-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel 2152.5 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
3		-24.6		-19	Pass	

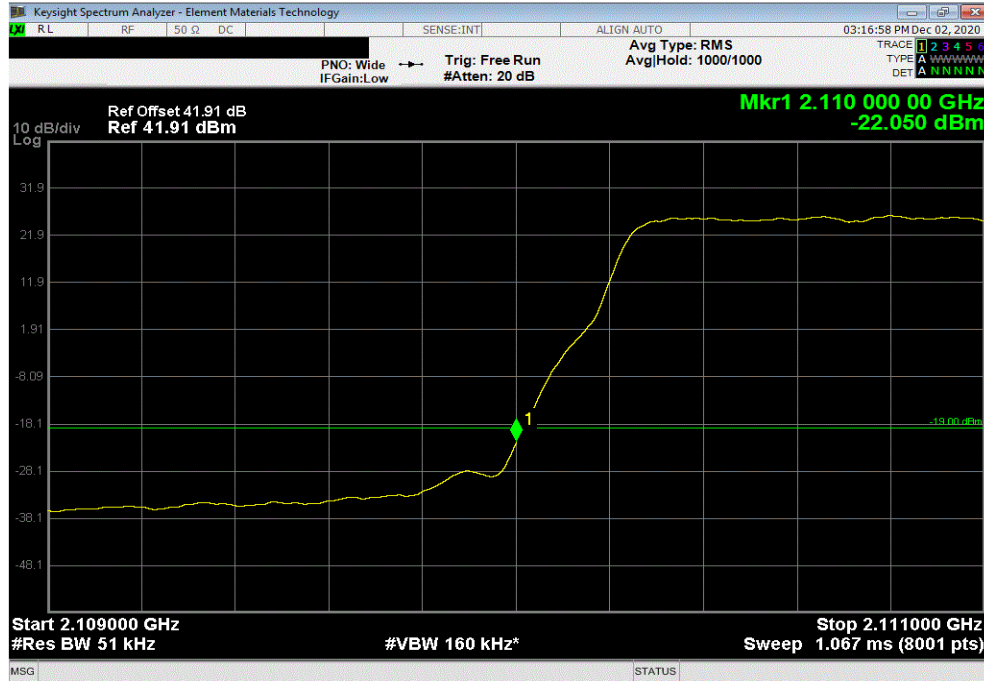


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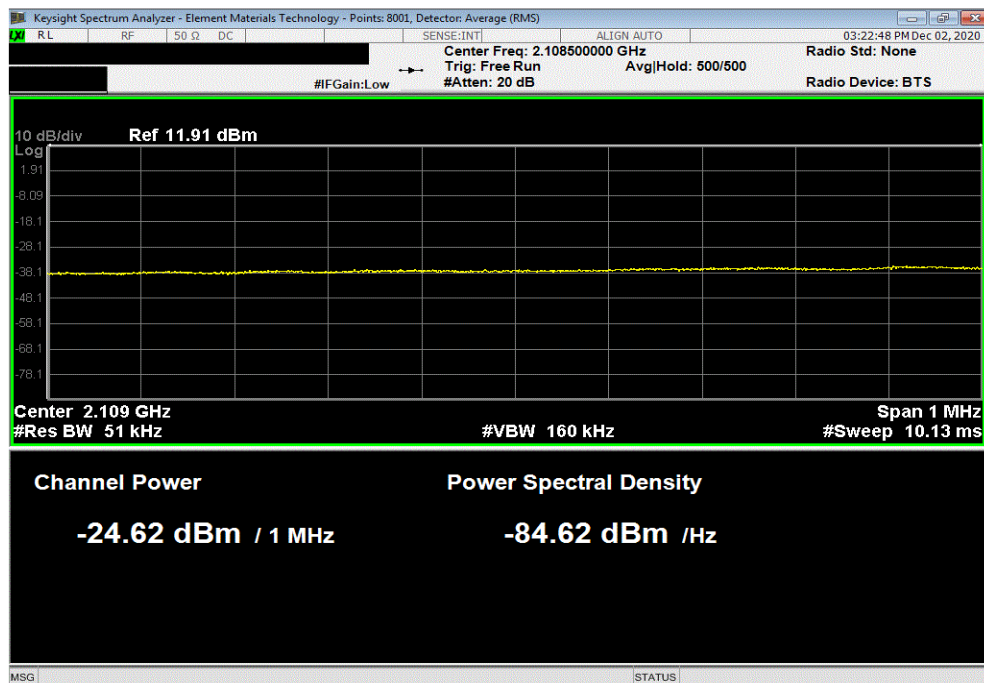


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel 2112.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
1				-22.05	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel 2112.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
2				-24.62	-19	Pass

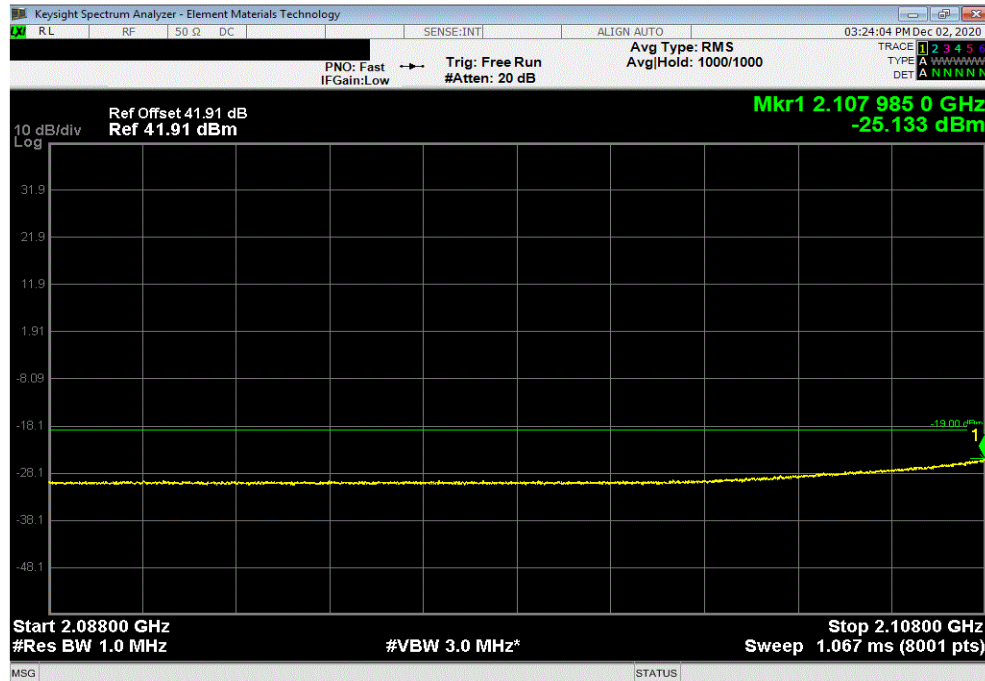


BAND EDGE COMPLIANCE - 4 PORT MODE

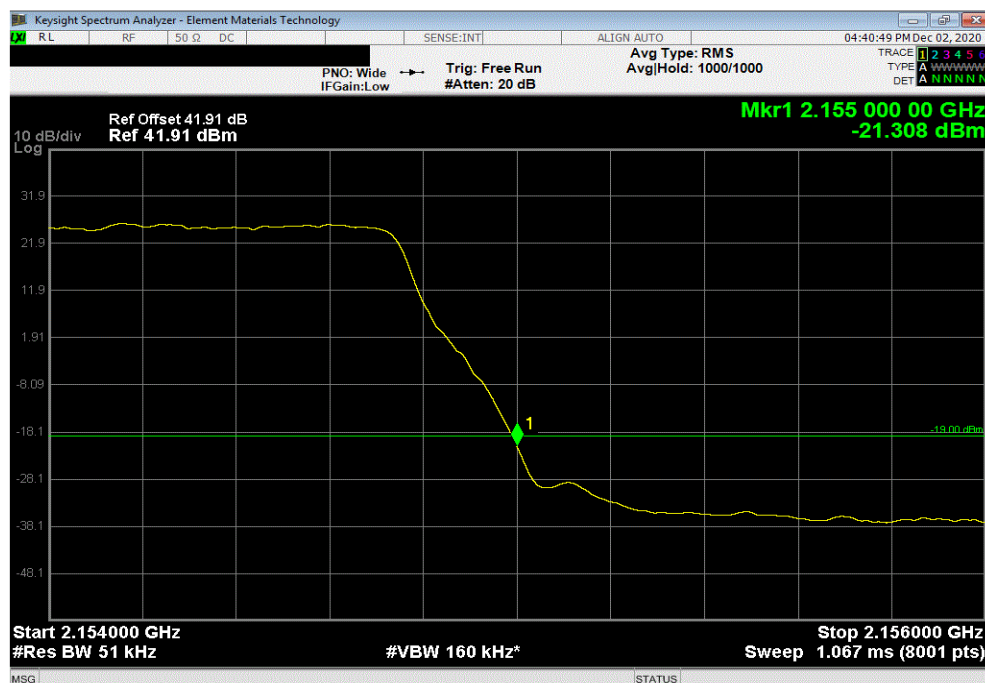


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel 2112.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-25.13	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Channel 2152.5 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-21.31	-19	Pass

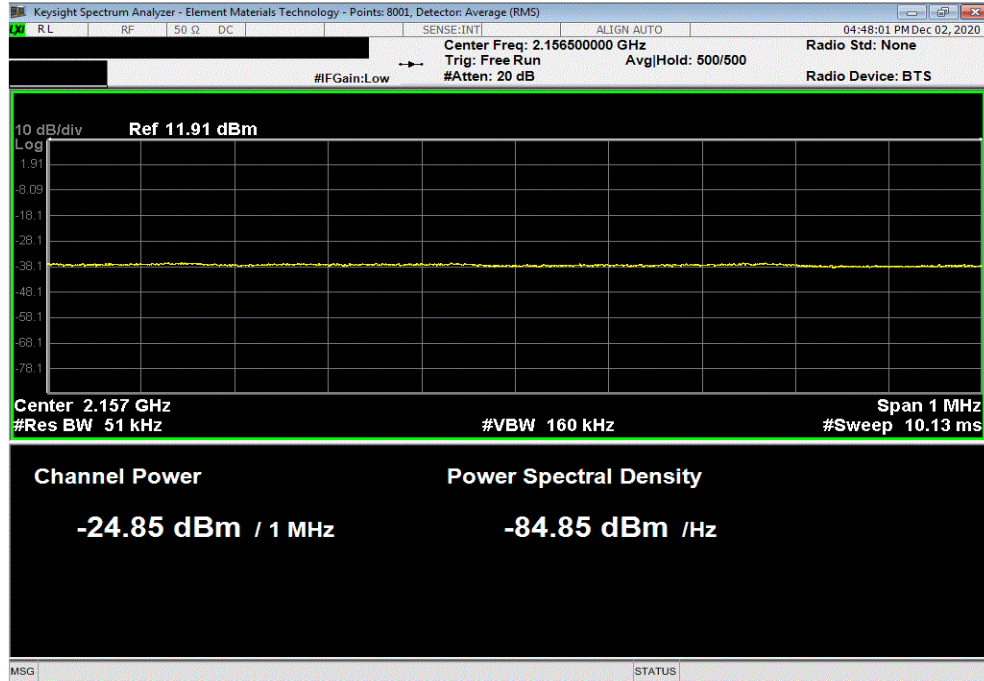


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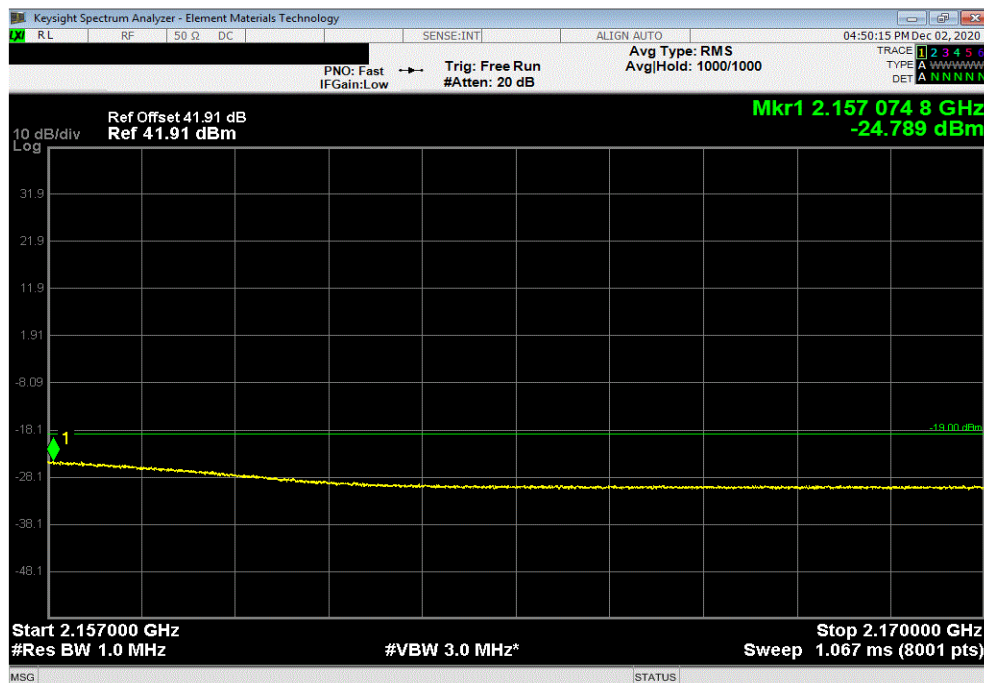


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 2152.5 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
2			-24.85		-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 2152.5 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
3			-24.79		-19	Pass

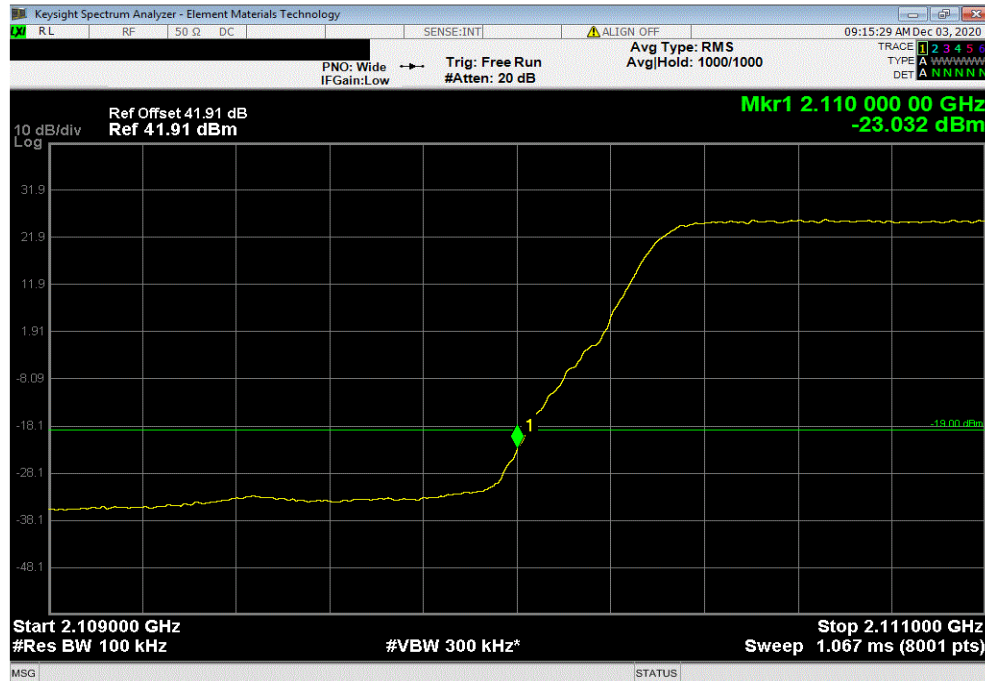


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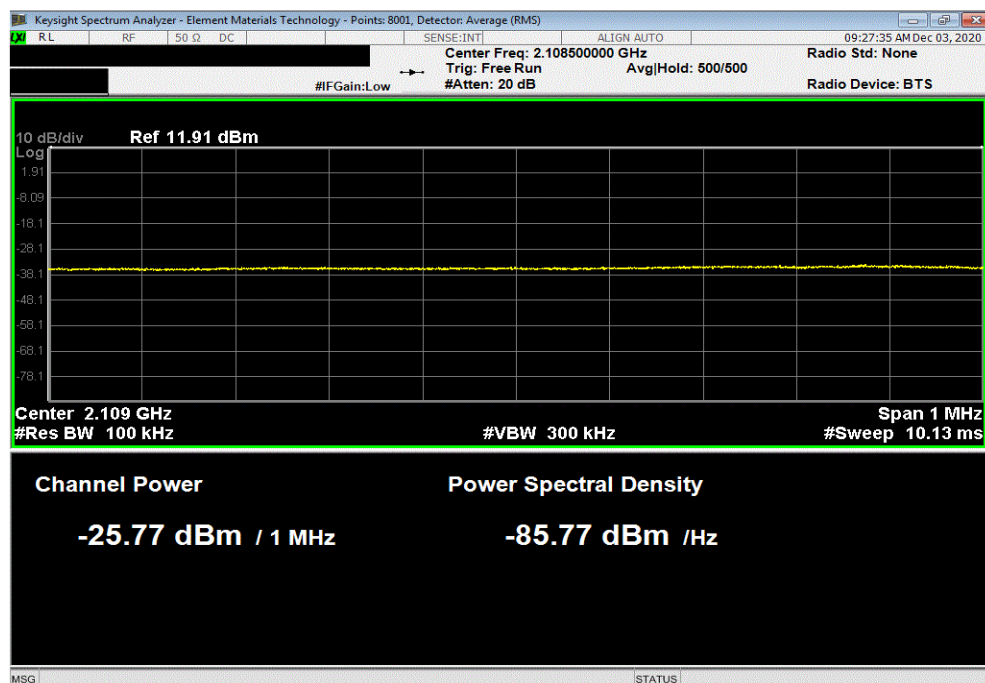


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel 2115 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
1			-23.03		-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel 2115 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
2			-25.77		-19	Pass

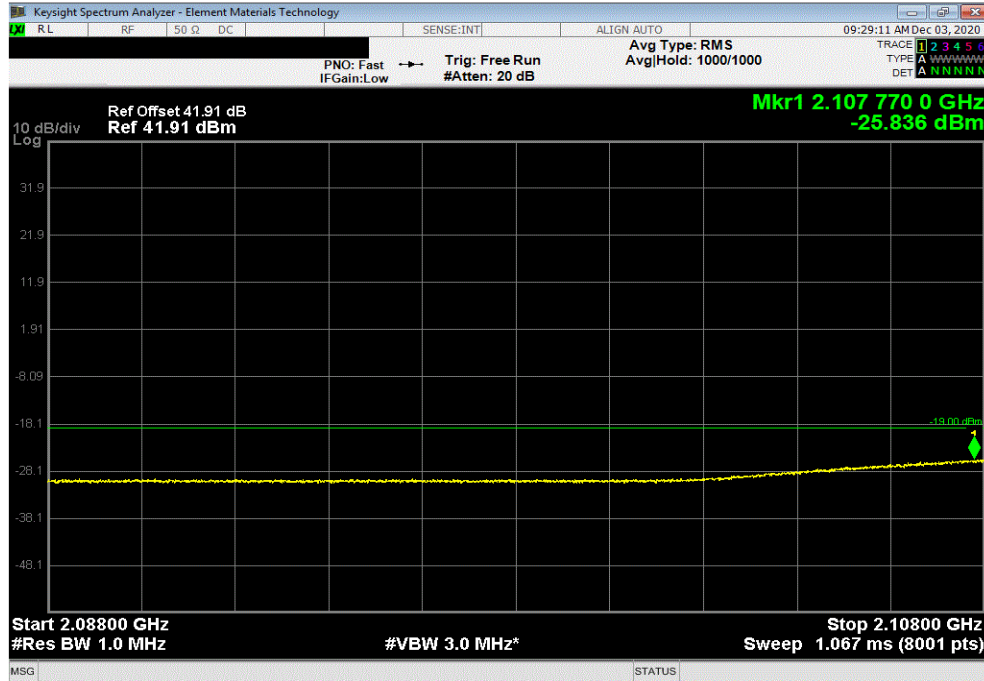


BAND EDGE COMPLIANCE - 4 PORT MODE

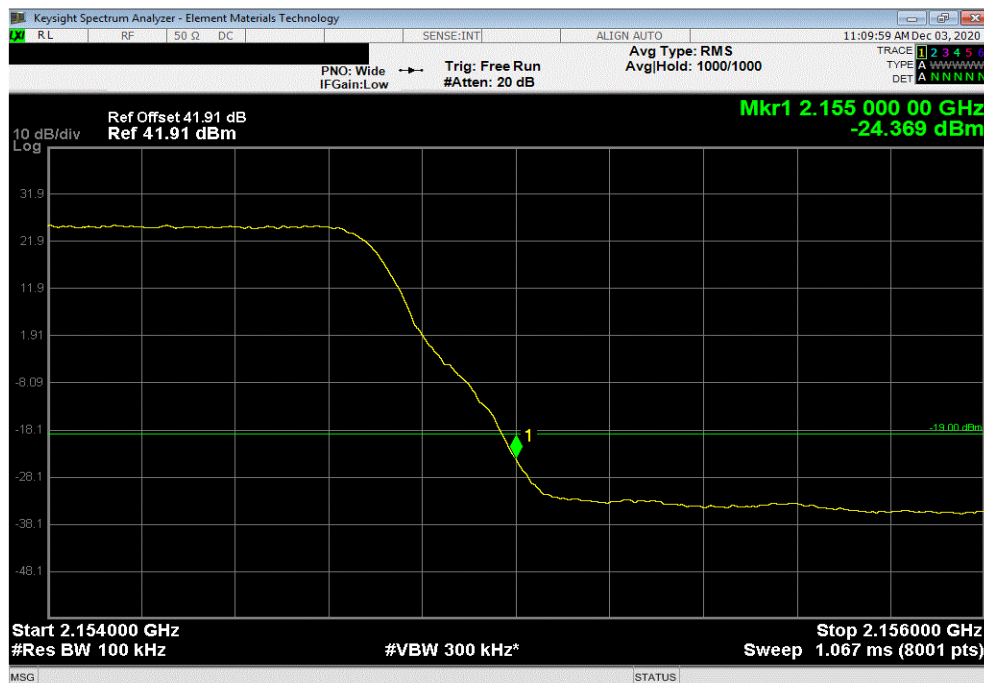


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel 2115 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
3		-25.84		-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel 2150 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
1		-24.37		-19	Pass	

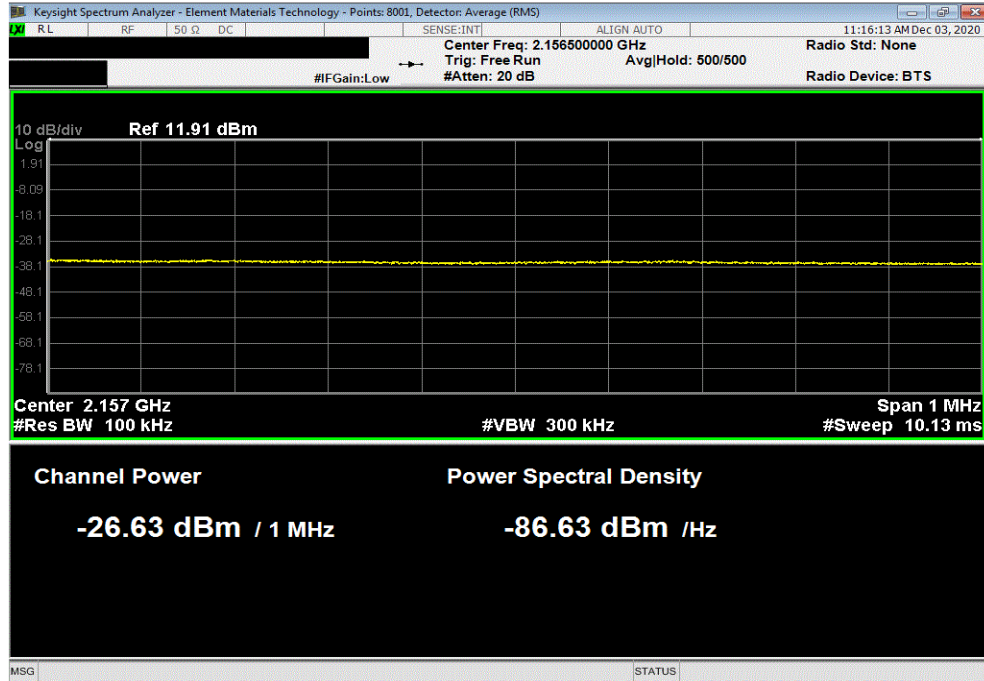


BAND EDGE COMPLIANCE - 4 PORT MODE

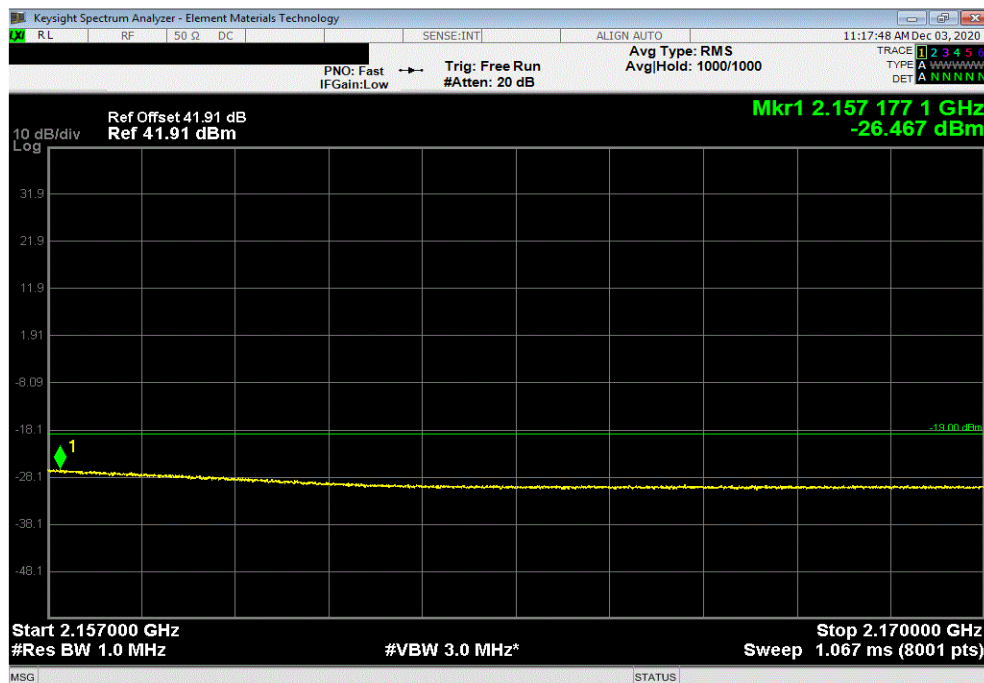


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel 2150 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
2		-26.63		-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel 2150 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
3		-26.47		-19	Pass	

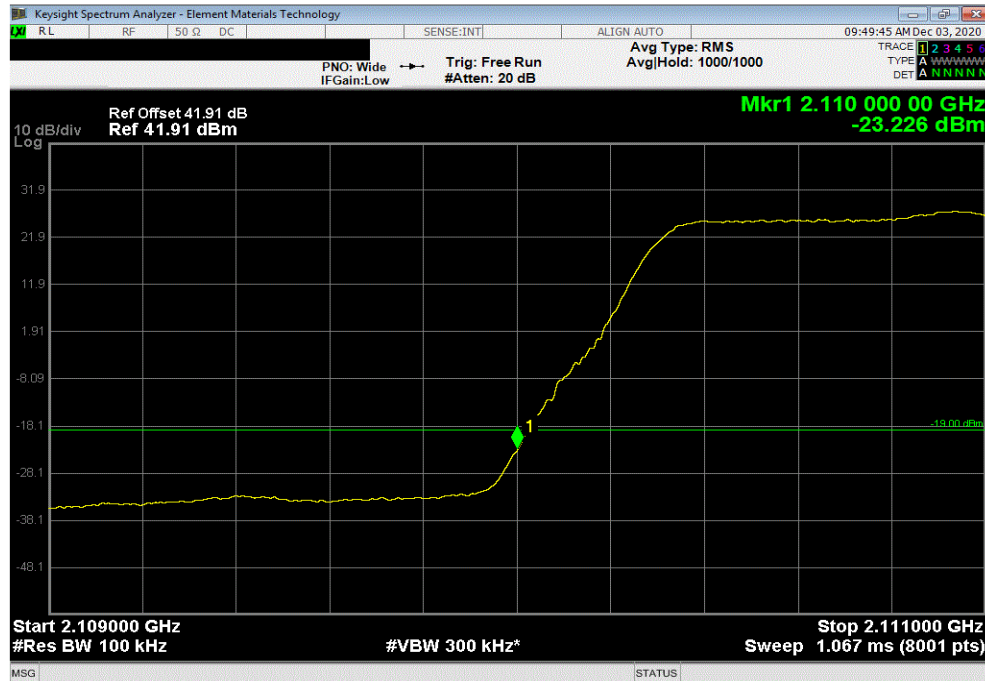


BAND EDGE COMPLIANCE - 4 PORT MODE

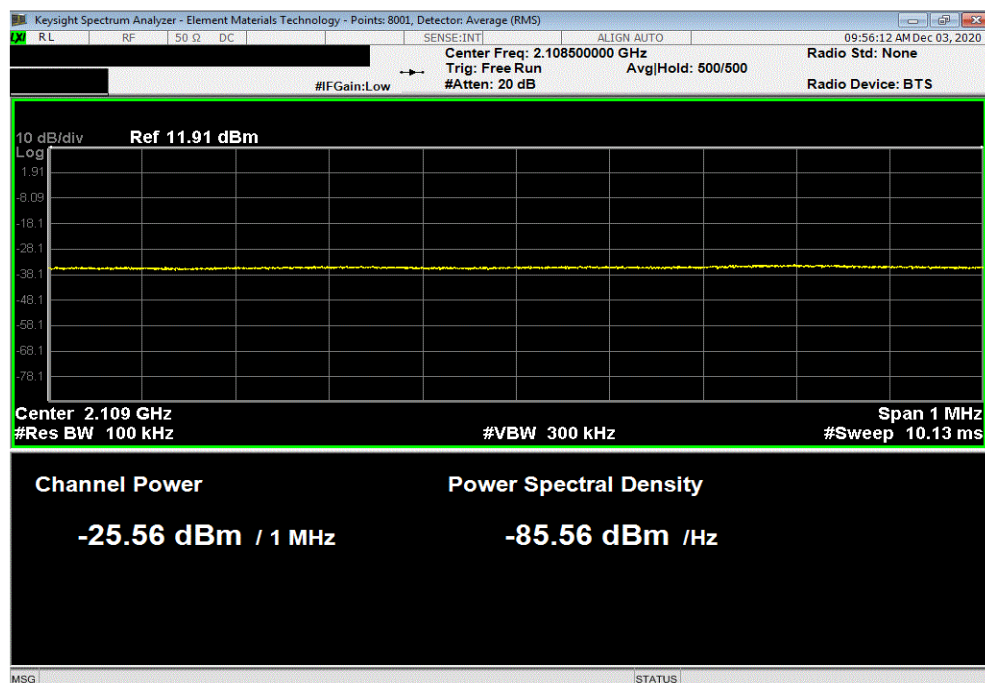


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel 2115 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
1				-23.23	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel 2115 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
2				-25.56	-19	Pass

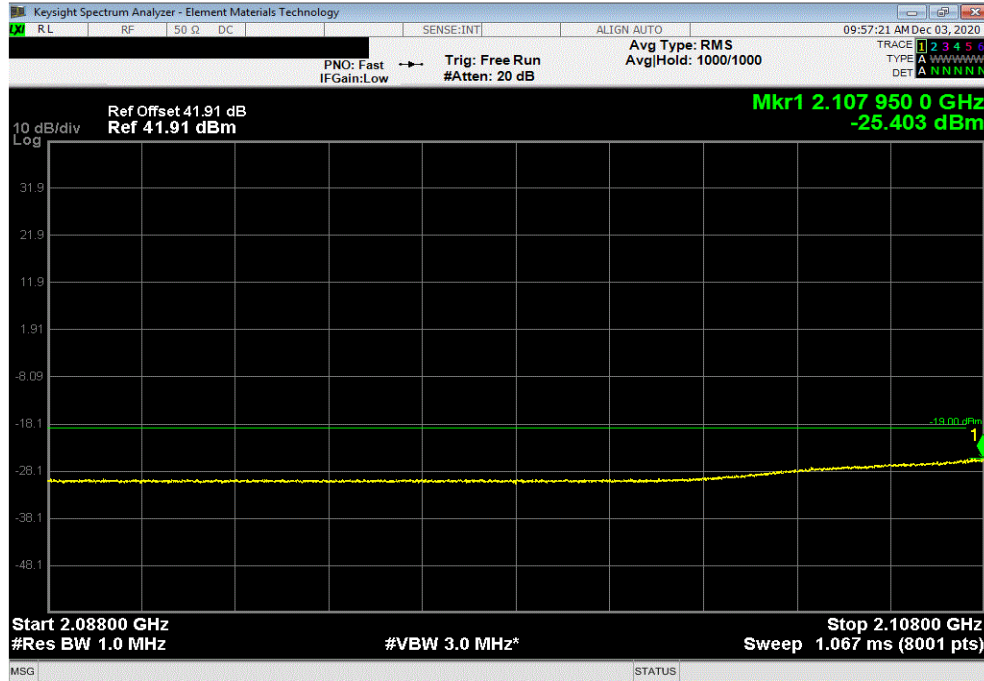


BAND EDGE COMPLIANCE - 4 PORT MODE

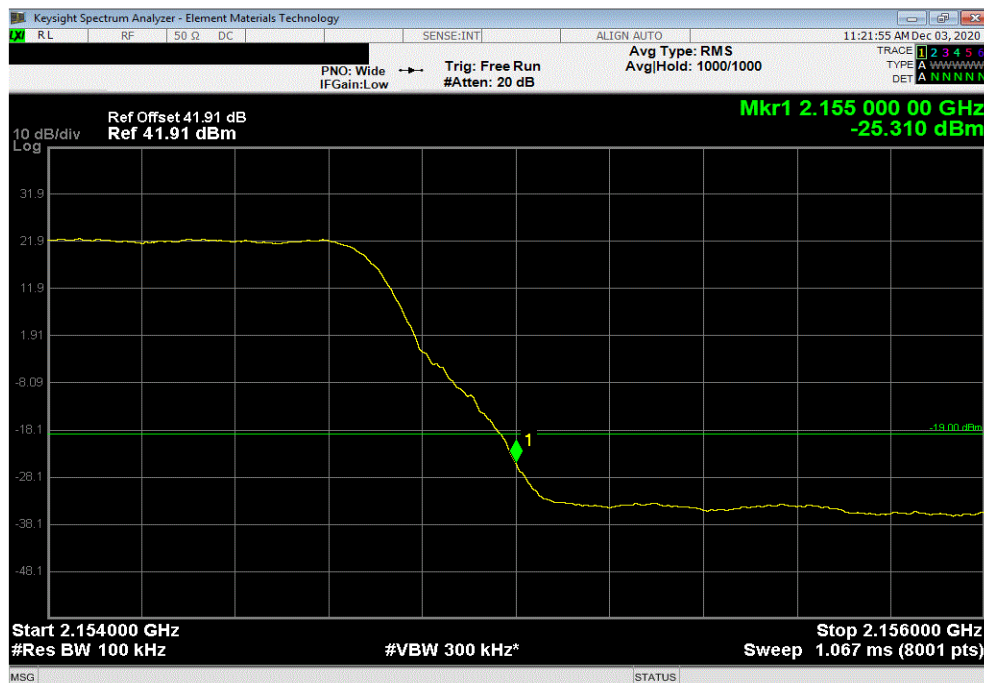


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel 2115 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
3				-25.4	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel 2150 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
1				-25.31	-19	Pass

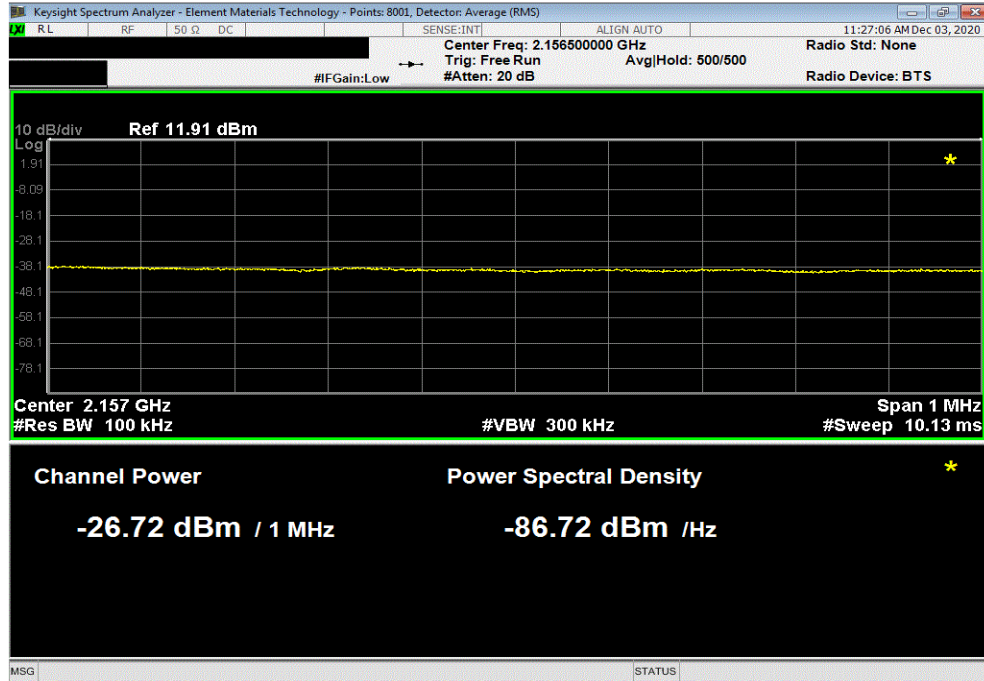


BAND EDGE COMPLIANCE - 4 PORT MODE

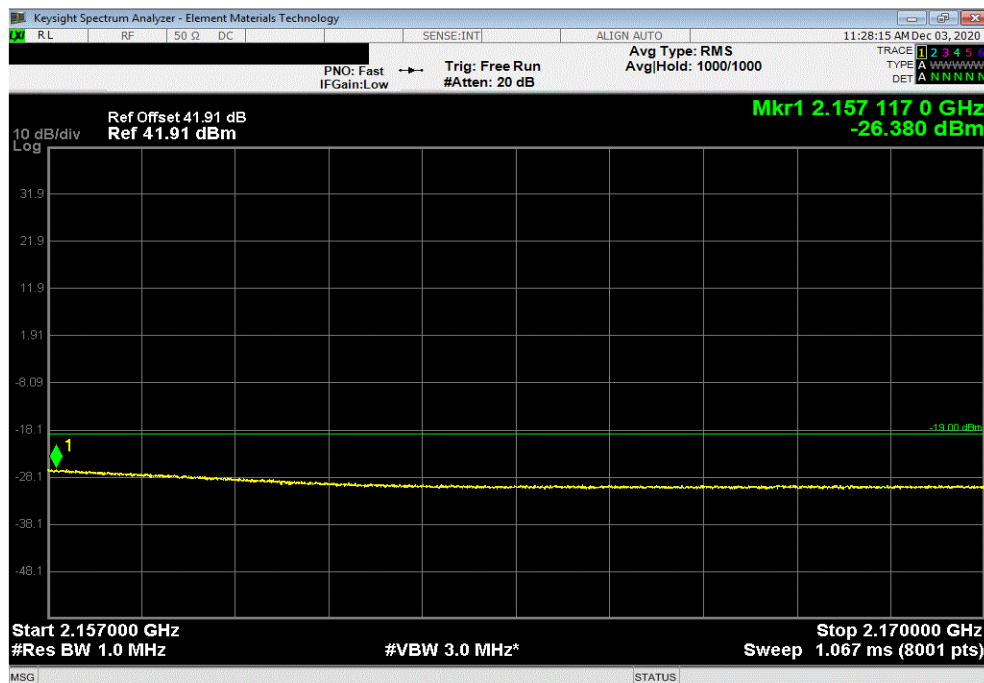


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 2150 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
2			-26.72		-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 16-QAM Modulation, High Channel 2150 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
3			-26.38		-19	Pass

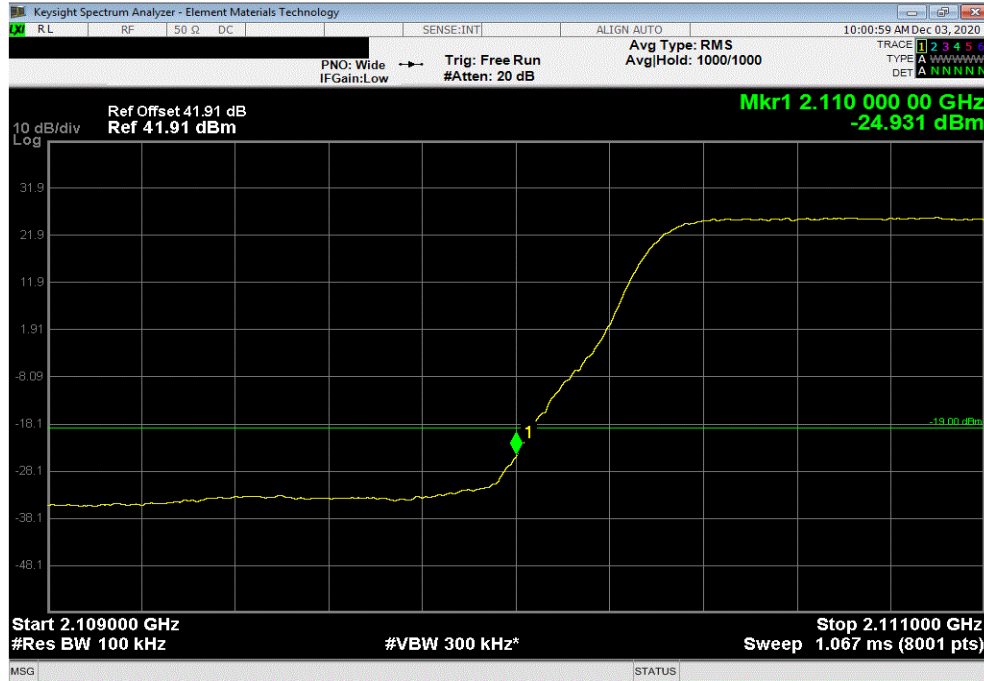


BAND EDGE COMPLIANCE - 4 PORT MODE

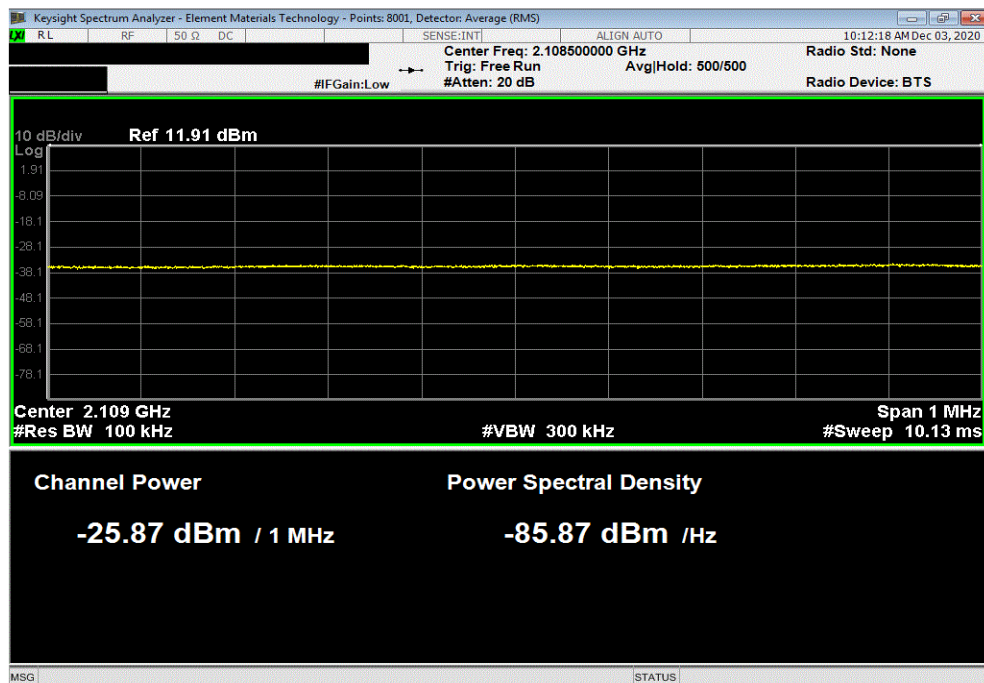


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 2115 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	1			-24.93	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 64-QAM Modulation, Low Channel 2115 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	2			-25.87	-19	Pass

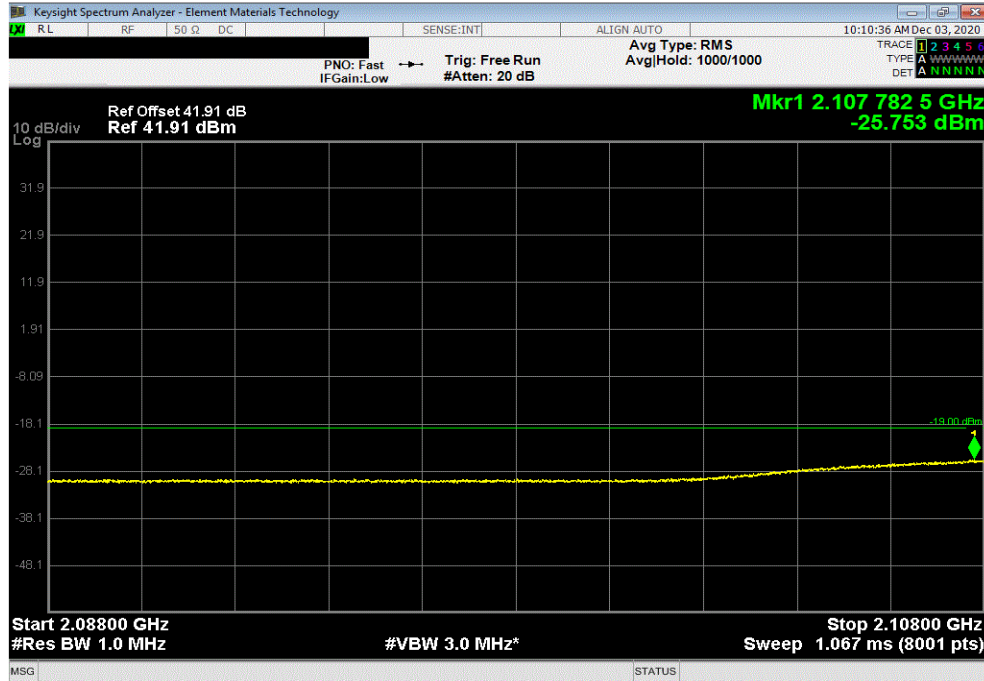


BAND EDGE COMPLIANCE - 4 PORT MODE

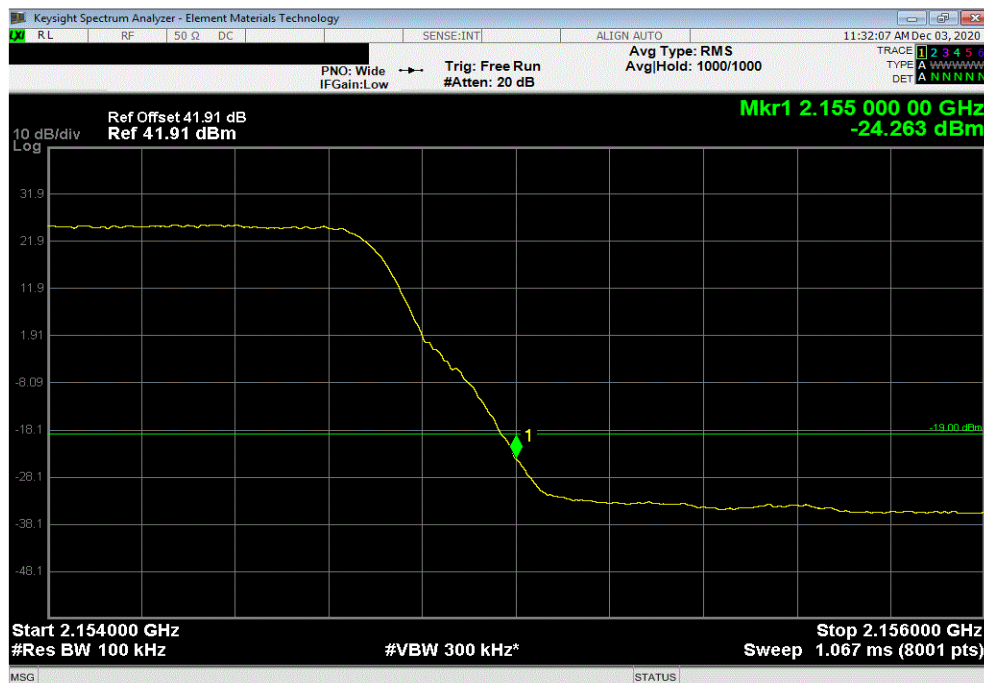


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel 2115 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			3	-25.75	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 64-QAM Modulation, High Channel 2150 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
			1	-24.26	-19	Pass

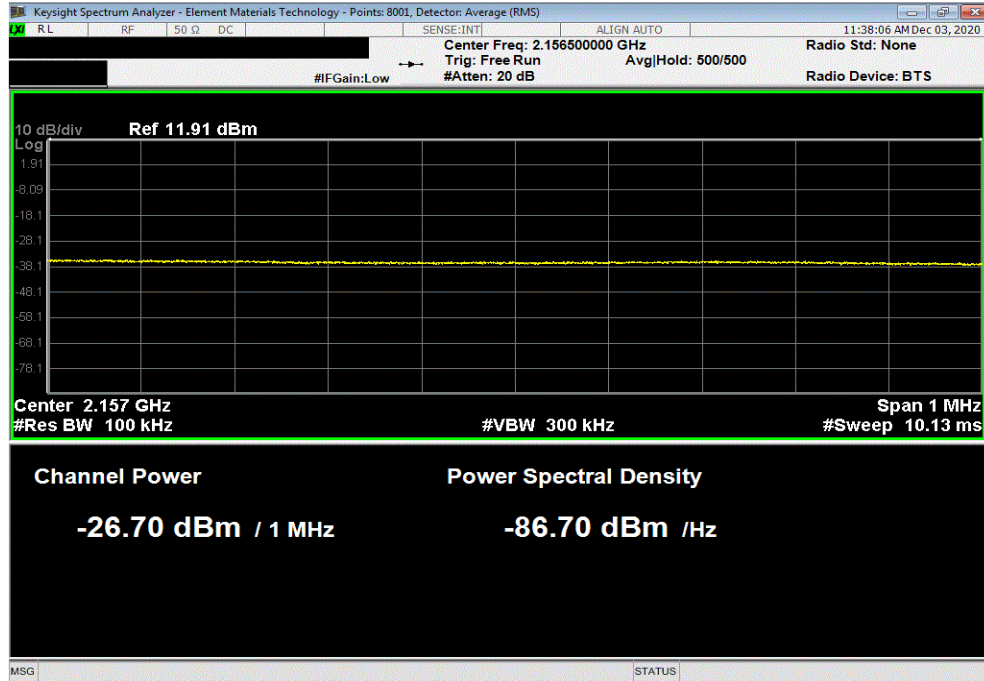


BAND EDGE COMPLIANCE - 4 PORT MODE

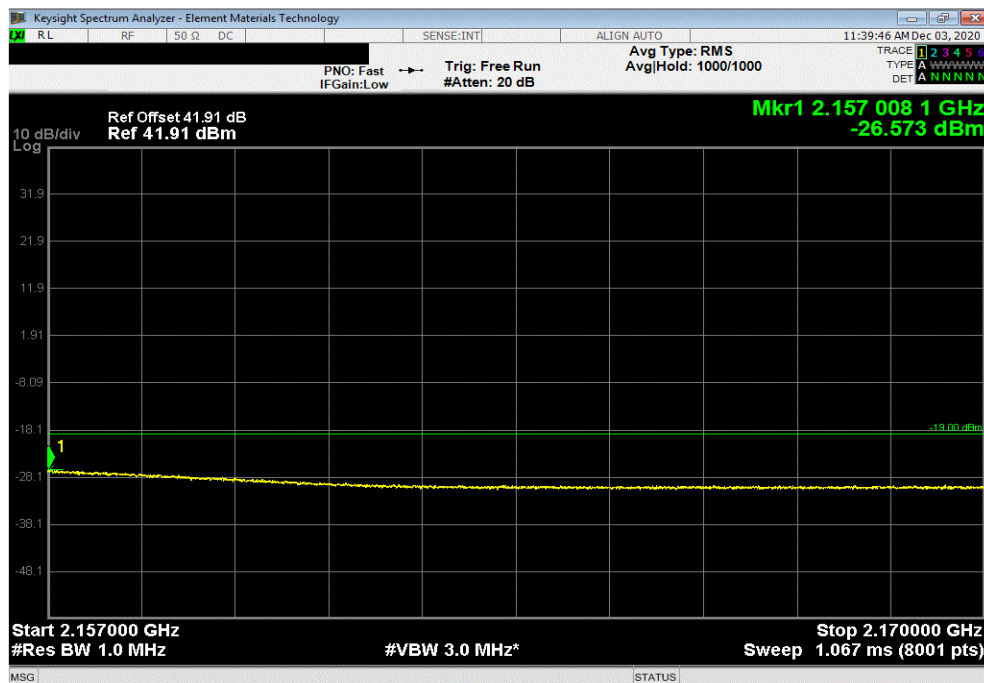


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2150 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
2			-26.70		-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2150 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
3			-26.57		-19	Pass

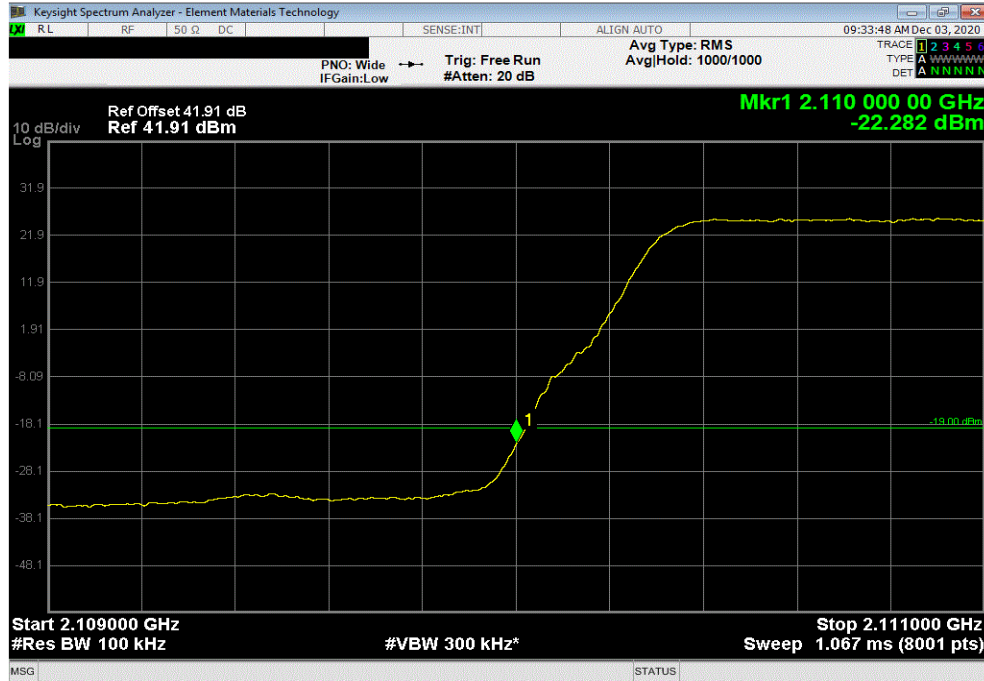


BAND EDGE COMPLIANCE - 4 PORT MODE

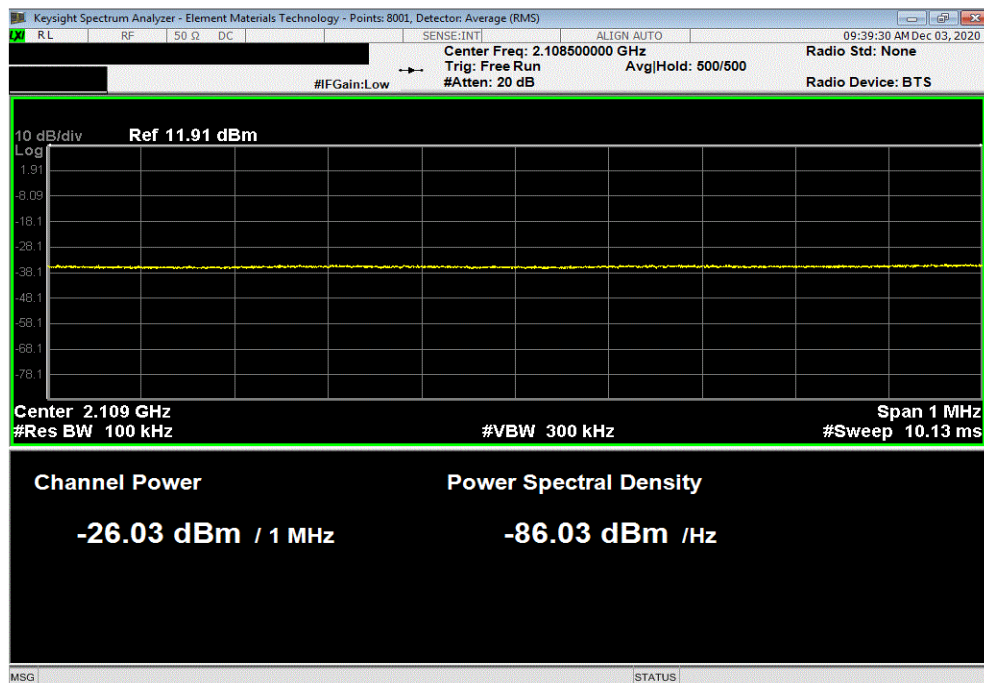


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel 2115 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
1				-22.28	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel 2115 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
2				-26.03	-19	Pass



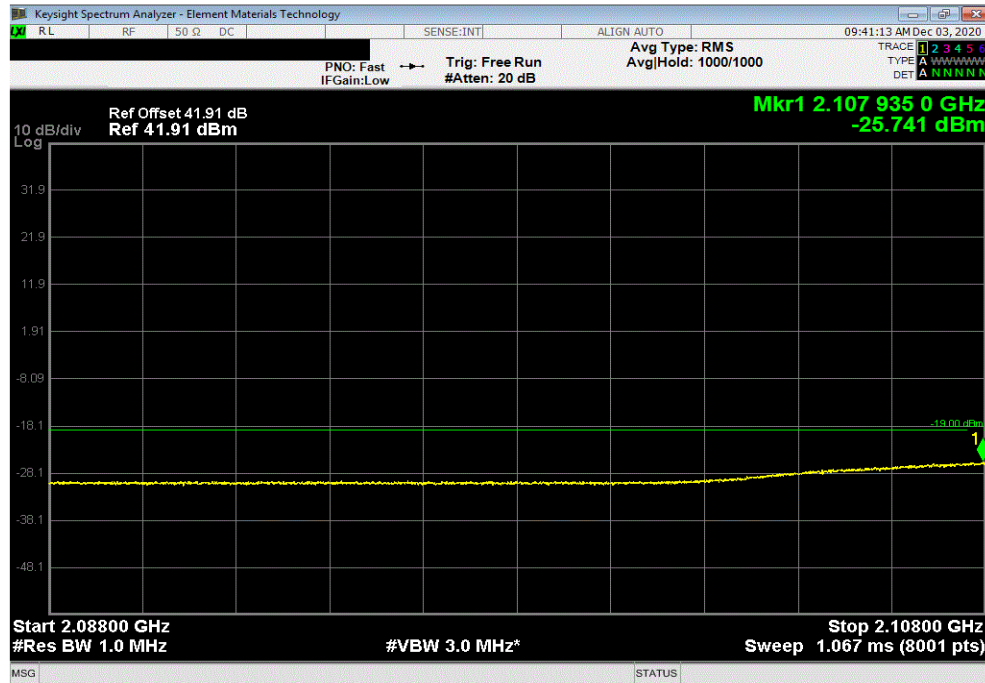
BAND EDGE COMPLIANCE - 4 PORT MODE



TMTx 2020.10.20.0 BETA XMt 2020.03.25.0

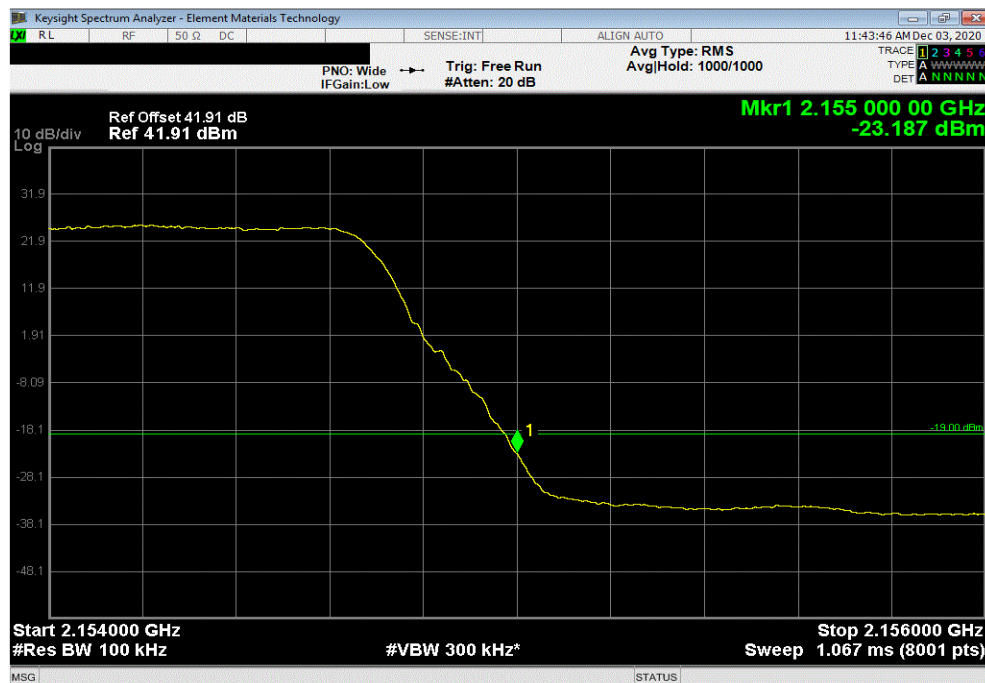
30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel 2115 MHz

Frequency				Value (dBm)	Limit (dBm)	Result
Range						
		3		-25.74	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel 2150 MHz

Frequency				Value (dBm)	Limit (dBm)	Result
Range						
		1		-23.19	-19	Pass

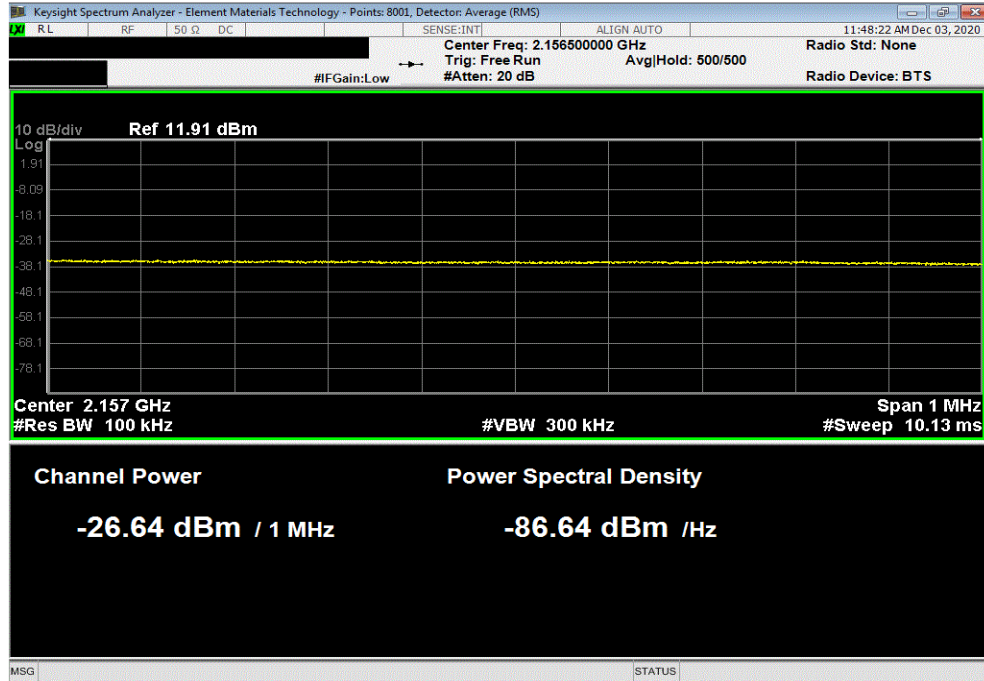


BAND EDGE COMPLIANCE - 4 PORT MODE

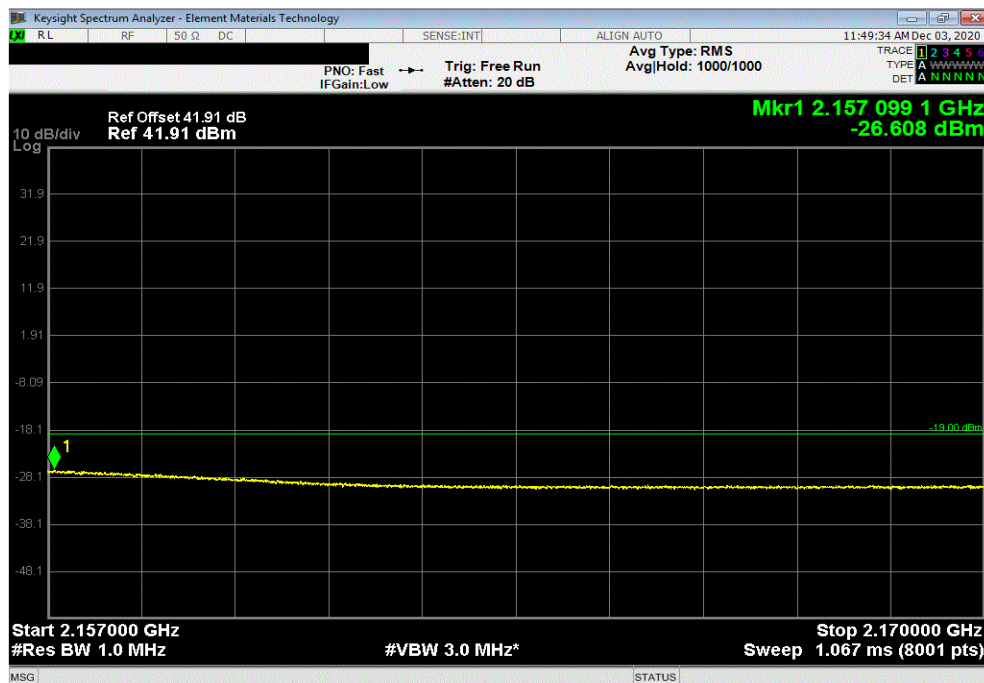


TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel 2150 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
2			-26.64		-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel 2150 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
3			-26.61		-19	Pass

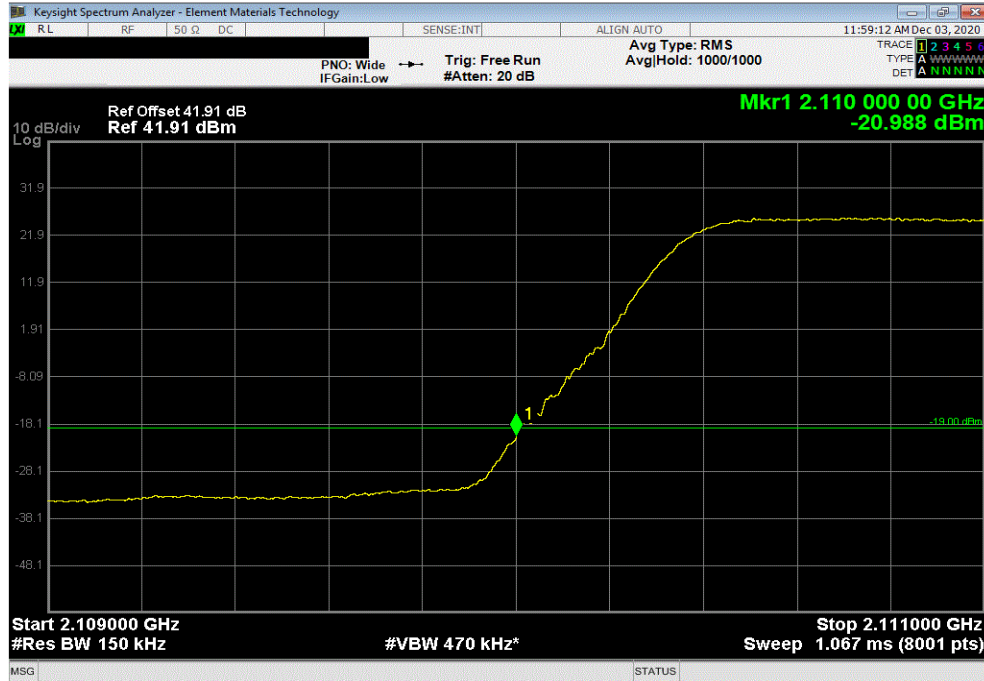


BAND EDGE COMPLIANCE - 4 PORT MODE



TMTx 2020.10.20.0 BETA XMR 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth , QPSK Modulation, Low Channel 2117.5 MHz						
Frequency Range				Value (dBm)	Limit (dBm)	Result
	1			-20.99	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth , QPSK Modulation, Low Channel 2117.5 MHz						
Frequency Range				Value (dBm)	Limit (dBm)	Result
	2			-26.78	-19	Pass

