

BAND EDGE COMPLIANCE



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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Generator - Signal	Agilent	N5173B	TIW	5-Jul-17	5-Jul-20
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.

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

Per section 27.53(g) and RSS 130 4.7, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm $[-13 \text{ dBm} - 10 \log(4)]$ per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 27.53(g) and RSS 130 4.7 requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) and RSS 130 4.7 requires a >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHBOA) as the original certification test. The AHBOA 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 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

BAND EDGE COMPLIANCE



TMTx 2020.06.06.0 BETA XMR 2020.03.25.0

EUT: Aircscale Base Transceiver Station Remote Radio Head Model AHBOA		Work Order: NOKI0017			
Serial Number: BL1943X1001		Date: 10-Jun-20			
Customer: Nokia Solutions and Networks		Temperature: 23 °C			
Attendees: Mitchell Hill, John Rattanaovong		Humidity: 39.1% RH			
Project: None		Barometric Pres.: 1023 mbar			
Tested by: Brandon Hobbs		Power: 54 VDC			
TEST SPECIFICATIONS		Job Site: TX05			
FCC 27:2020		Test Method			
RSS-130:2019		ANSI C63.26:2015			
RSS-130:2019		RSS-130:2019			
COMMENTS					
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The carrier power was set to maximum for all testing.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	2	Signature 			
		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
Port 1, Band 71, 617 MHz - 652 MHz					
5 MHz Bandwidth					
QPSK Modulation					
Low Channel, 619.5 MHz		616.9	-22.22	-19	Pass
Low Channel, 619.5 MHz		617	-26.7	-19	Pass
High Channel, 649.5 MHz		652.1	-22.98	-19	Pass
High Channel, 649.5 MHz		652	-28.29	-19	Pass
16-QAM Modulation					
Low Channel, 619.5 MHz		616.9	-22.39	-19	Pass
Low Channel, 619.5 MHz		617	-26.88	-19	Pass
High Channel, 649.5 MHz		652.1	-22.68	-19	Pass
High Channel, 649.5 MHz		652	-27.86	-19	Pass
64-QAM Modulation					
Low Channel, 619.5 MHz		616.9	-22.32	-19	Pass
Low Channel, 619.5 MHz		617	-26.35	-19	Pass
High Channel, 649.5 MHz		652.1	-23.34	-19	Pass
High Channel, 649.5 MHz		652	-28.6	-19	Pass
256-QAM Modulation					
Low Channel, 619.5 MHz		616.9	-22.92	-19	Pass
Low Channel, 619.5 MHz		617	-26.51	-19	Pass
High Channel, 649.5 MHz		652.1	-23.03	-19	Pass
High Channel, 649.5 MHz		652	-28.47	-19	Pass
10 MHz Bandwidth					
QPSK Modulation					
Low Channel, 622 MHz		616.9	-23.7	-19	Pass
Low Channel, 622 MHz		617	-29.18	-19	Pass
High Channel, 647 MHz		652.1	-24.64	-19	Pass
High Channel, 647 MHz		652	-29.58	-19	Pass
16-QAM Modulation					
Low Channel, 622 MHz		616.9	-24.35	-19	Pass
Low Channel, 622 MHz		617	-29.16	-19	Pass
High Channel, 647 MHz		652.1	-25.48	-19	Pass
High Channel, 647 MHz		652	-30.42	-19	Pass
64-QAM Modulation					
Low Channel, 622 MHz		616.9	-23.65	-19	Pass
Low Channel, 622 MHz		617	-28.79	-19	Pass
High Channel, 647 MHz		652.1	-25.34	-19	Pass
High Channel, 647 MHz		652	-30.31	-19	Pass
256-QAM Modulation					
Low Channel, 622 MHz		616.9	-22.81	-19	Pass
Low Channel, 622 MHz		617	-28.34	-19	Pass
High Channel, 647 MHz		652.1	-24.83	-19	Pass
High Channel, 647 MHz		652	-30.22	-19	Pass
15 MHz Bandwidth					
QPSK Modulation					
Low Channel, 624.5 MHz		616.9	-23.35	-19	Pass
Low Channel, 624.5 MHz		617	-29.43	-19	Pass
High Channel, 644.5 MHz		652.1	-23.99	-19	Pass
High Channel, 644.5 MHz		652	-28.47	-19	Pass
16-QAM Modulation					
Low Channel, 624.5 MHz		616.9	-23.8	-19	Pass
Low Channel, 624.5 MHz		617	-29.16	-19	Pass
High Channel, 644.5 MHz		652.1	-24.95	-19	Pass
High Channel, 644.5 MHz		652	-28.82	-19	Pass
64-QAM Modulation					
Low Channel, 624.5 MHz		616.9	-24.09	-19	Pass
Low Channel, 624.5 MHz		617	-28.88	-19	Pass
High Channel, 644.5 MHz		652.1	-24.12	-19	Pass
High Channel, 644.5 MHz		652	-29.63	-19	Pass
256-QAM Modulation					
Low Channel, 624.5 MHz		616.9	-23.85	-19	Pass
Low Channel, 624.5 MHz		617	-29.14	-19	Pass
High Channel, 644.5 MHz		652.1	-24	-19	Pass
High Channel, 644.5 MHz		652	-29.28	-19	Pass
20 MHz Bandwidth					
QPSK Modulation					
Low Channel, 627 MHz		616.9	-24.26	-19	Pass
Low Channel, 627 MHz		617	-29.62	-19	Pass
High Channel, 642 MHz		652.1	-24.36	-19	Pass
High Channel, 642 MHz		652	-28.41	-19	Pass
16-QAM Modulation					
Low Channel, 627 MHz		616.9	-24.33	-19	Pass
Low Channel, 627 MHz		617	-30.02	-19	Pass
High Channel, 642 MHz		652.1	-24.63	-19	Pass
High Channel, 642 MHz		652	-29.18	-19	Pass
64-QAM Modulation					

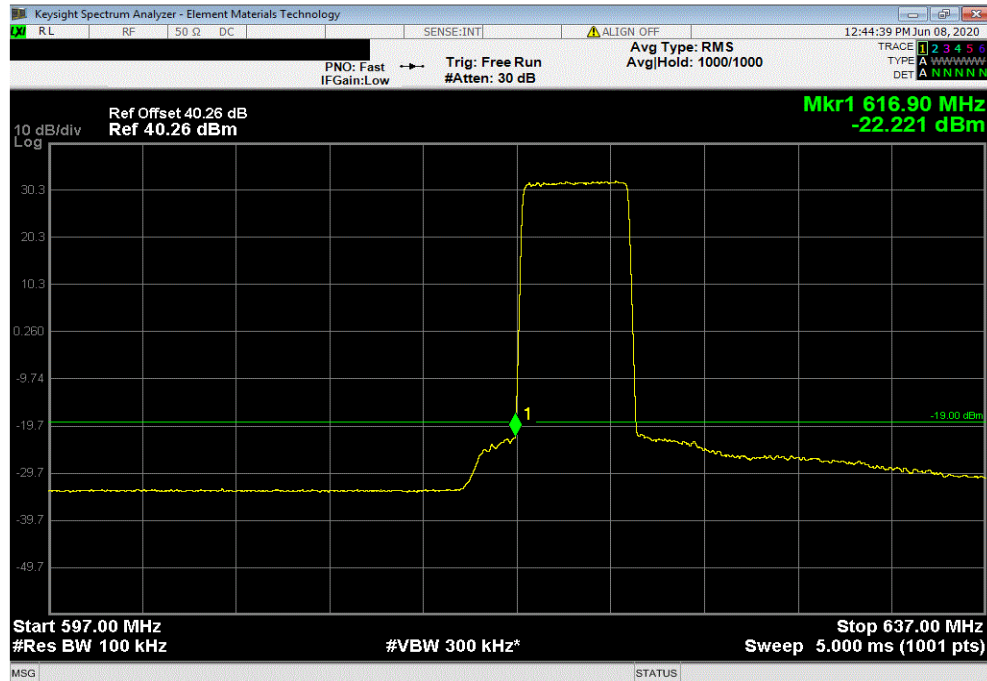
Low Channel, 627 MHz	616.9	-23.54	-19	Pass
Low Channel, 627 MHz	617	-28.85	-19	Pass
High Channel, 642 MHz	652.1	-24.65	-19	Pass
High Channel, 642 MHz	652	-29.56	-19	Pass
256-QAM Modulation				
Low Channel, 627 MHz	616.9	-24.22	-19	Pass
Low Channel, 627 MHz	617	-29.87	-19	Pass
High Channel, 642 MHz	652.1	-24.33	-19	Pass
High Channel, 642 MHz	652	-29.66	-19	Pass

BAND EDGE COMPLIANCE

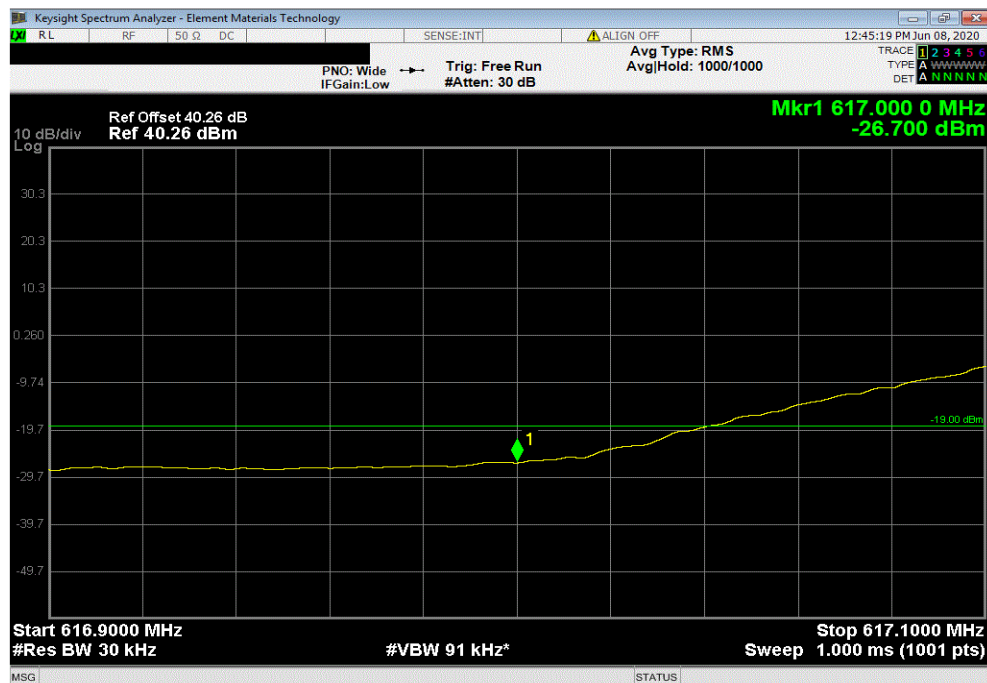


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 619.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-22.22	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 619.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-26.7	-19	Pass		

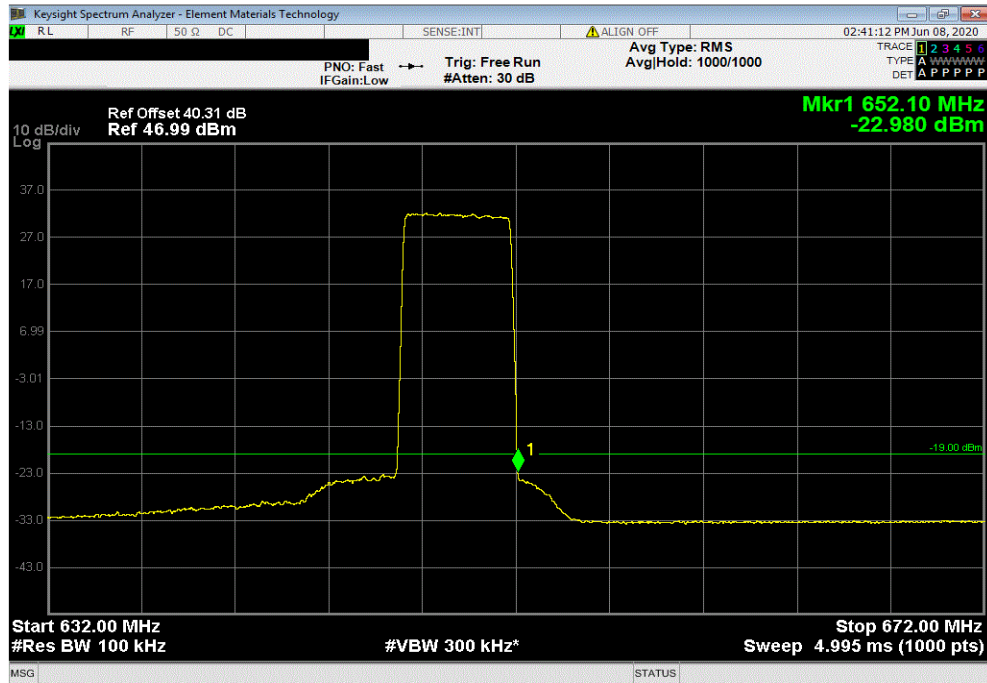


BAND EDGE COMPLIANCE

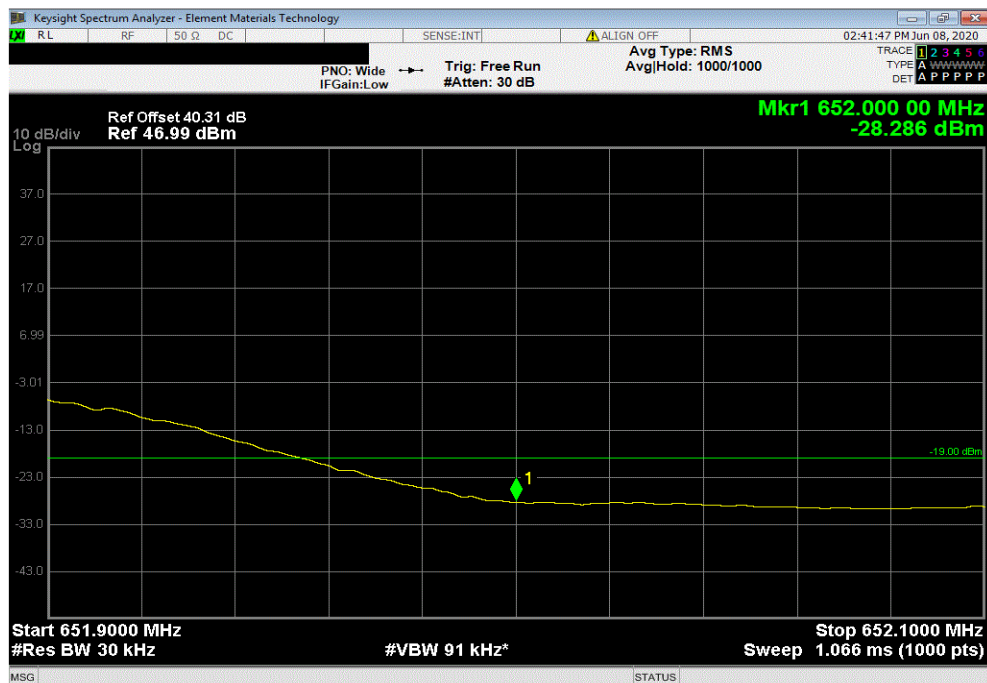


TMTx 2020.06.08.0 BETA XMH 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 649.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-22.98	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 649.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-28.29	-19	Pass		

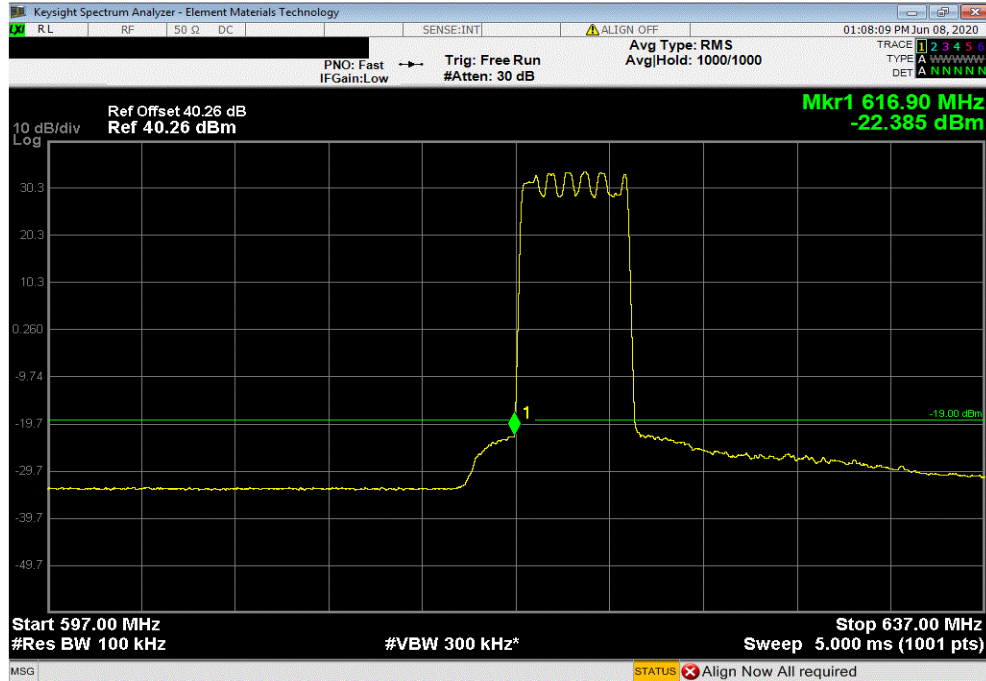


BAND EDGE COMPLIANCE

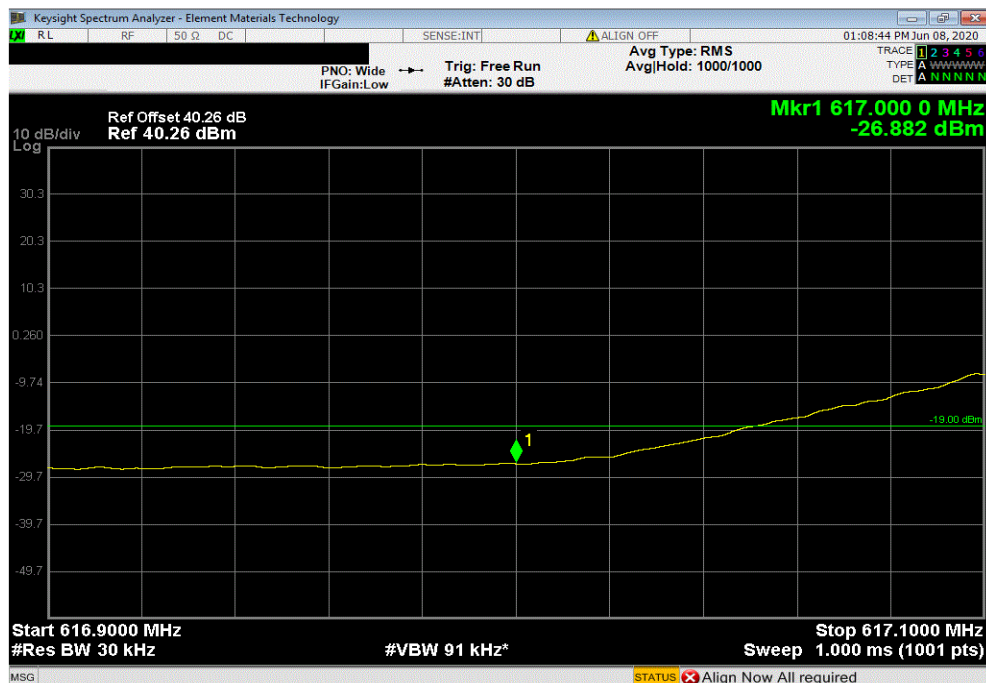


TMTx 2020.06.08.0 BETA XMH 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 619.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-22.39	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 619.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-26.88	-19	Pass		

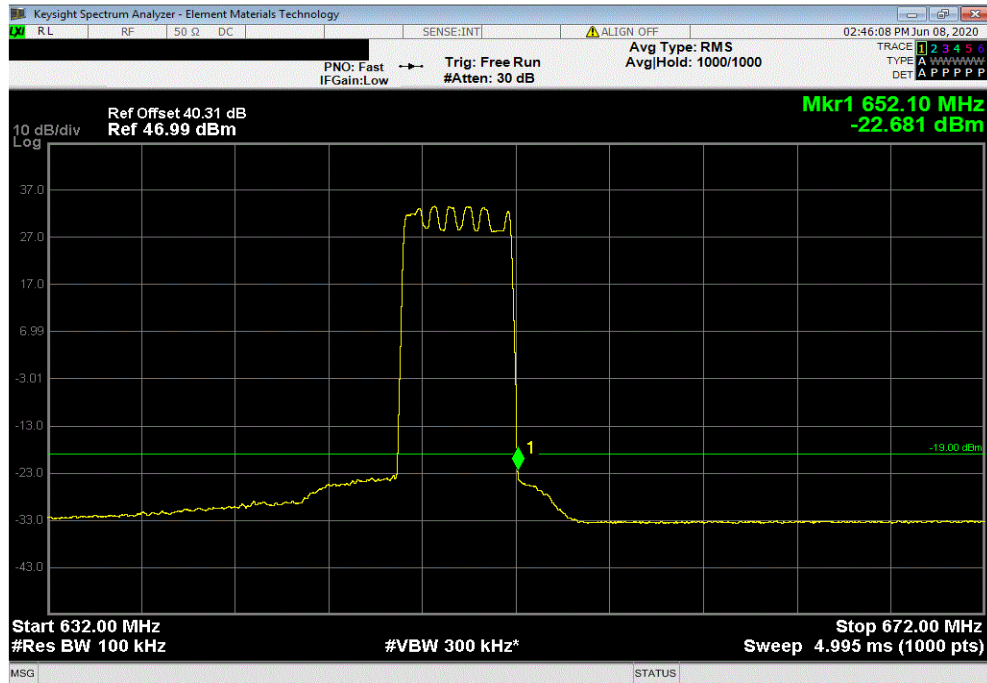


BAND EDGE COMPLIANCE

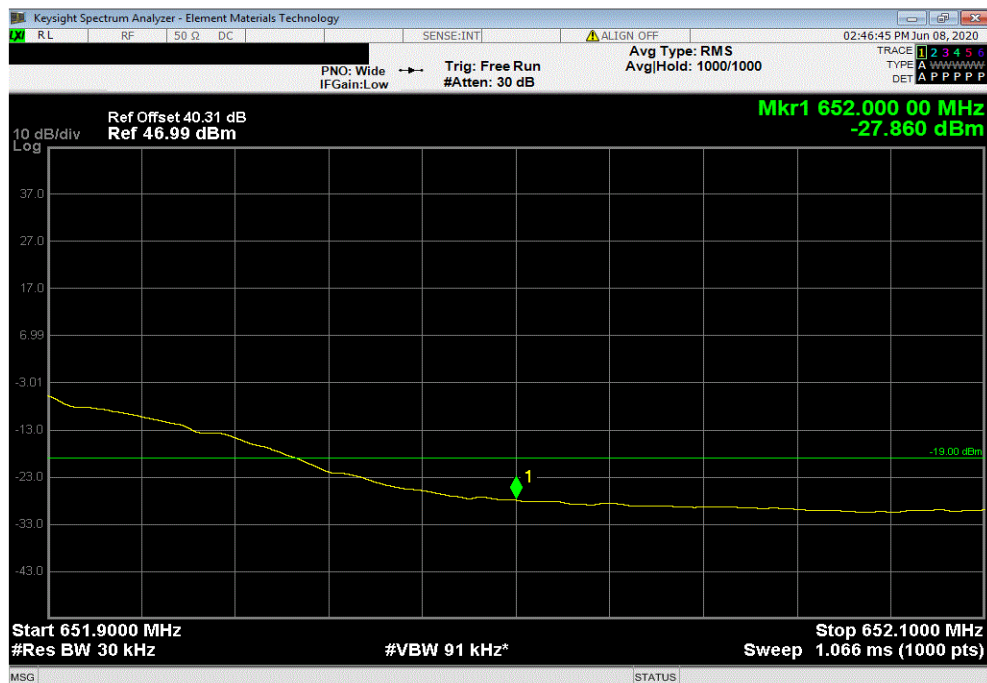


TMTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 649.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-22.68	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 649.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-27.86	-19	Pass		

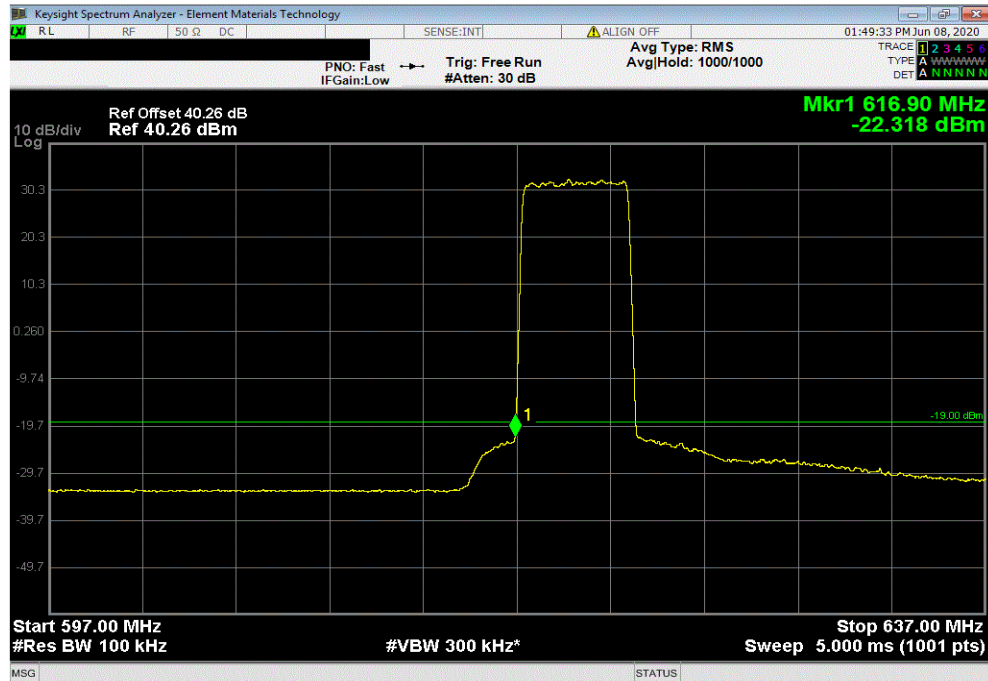


BAND EDGE COMPLIANCE

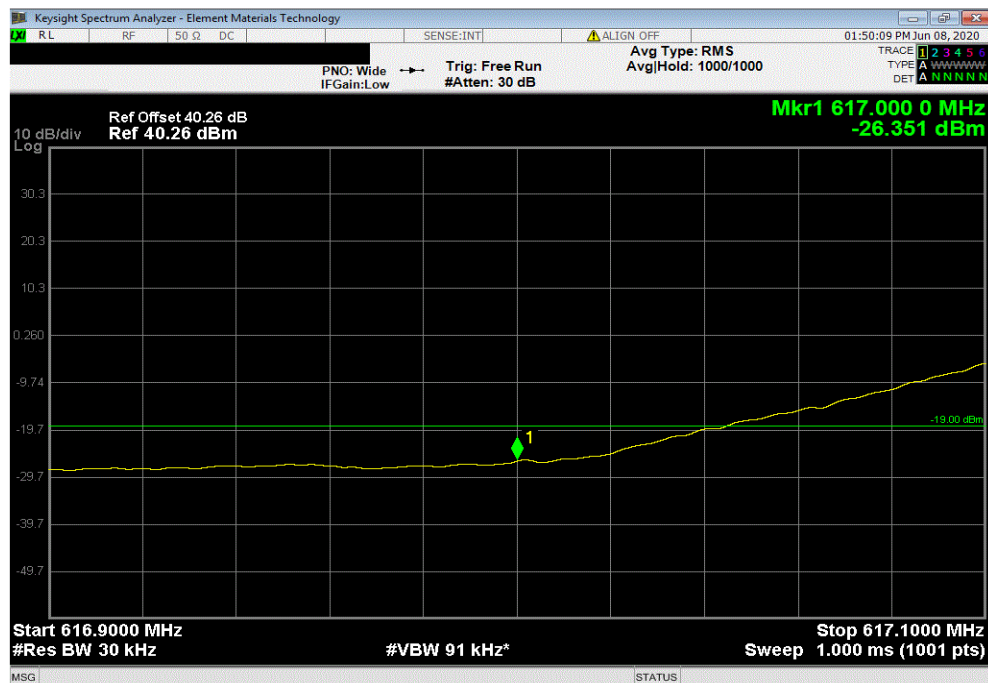


TMTx 2020.06.08.0 BETA XMR 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 619.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-22.32	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 619.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-26.35	-19	Pass		

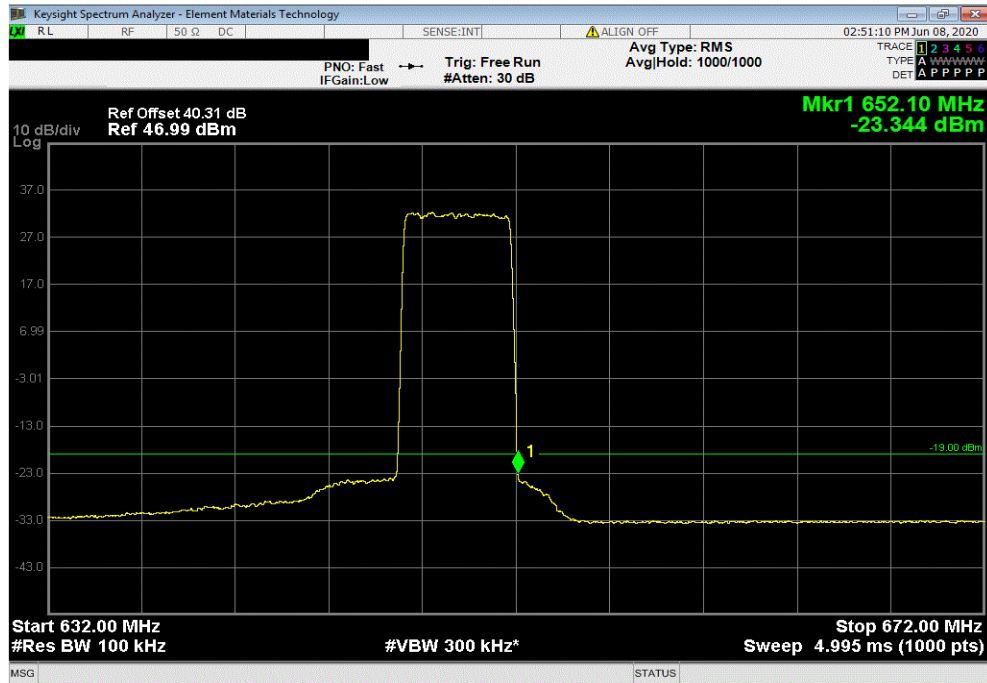


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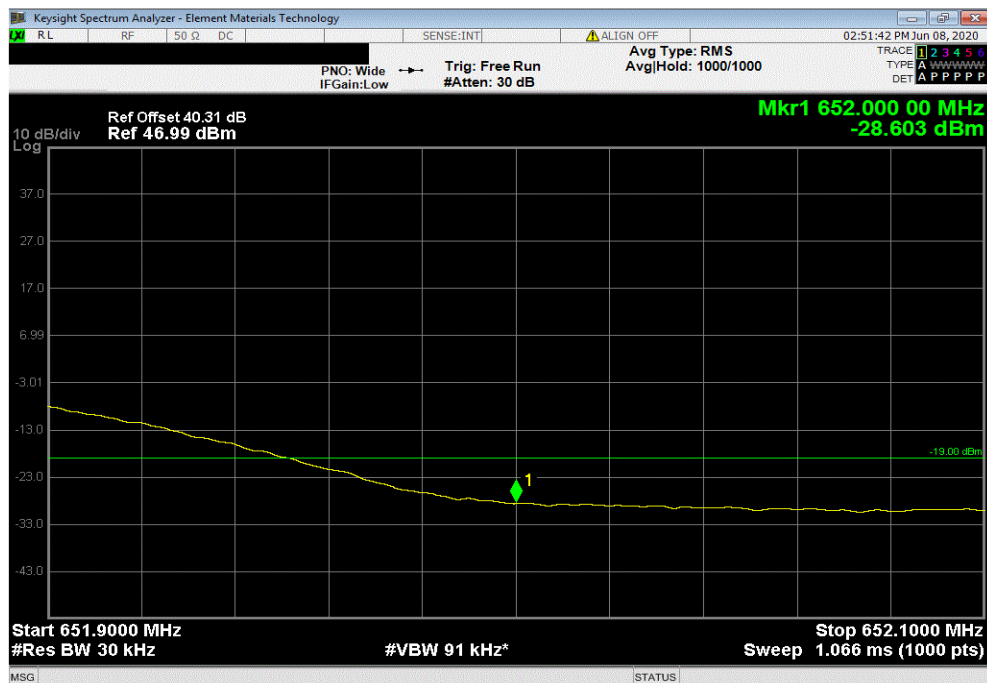


TMTx 2020.06.08.0 BETA XMH 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 649.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-23.34	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 649.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-28.6	-19	Pass		

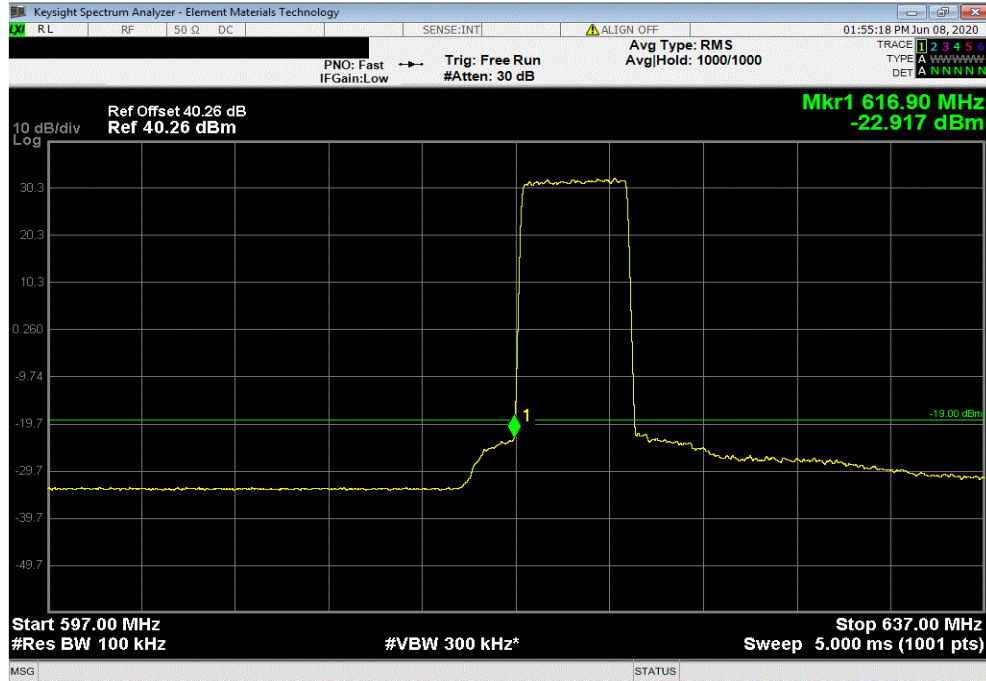


BAND EDGE COMPLIANCE

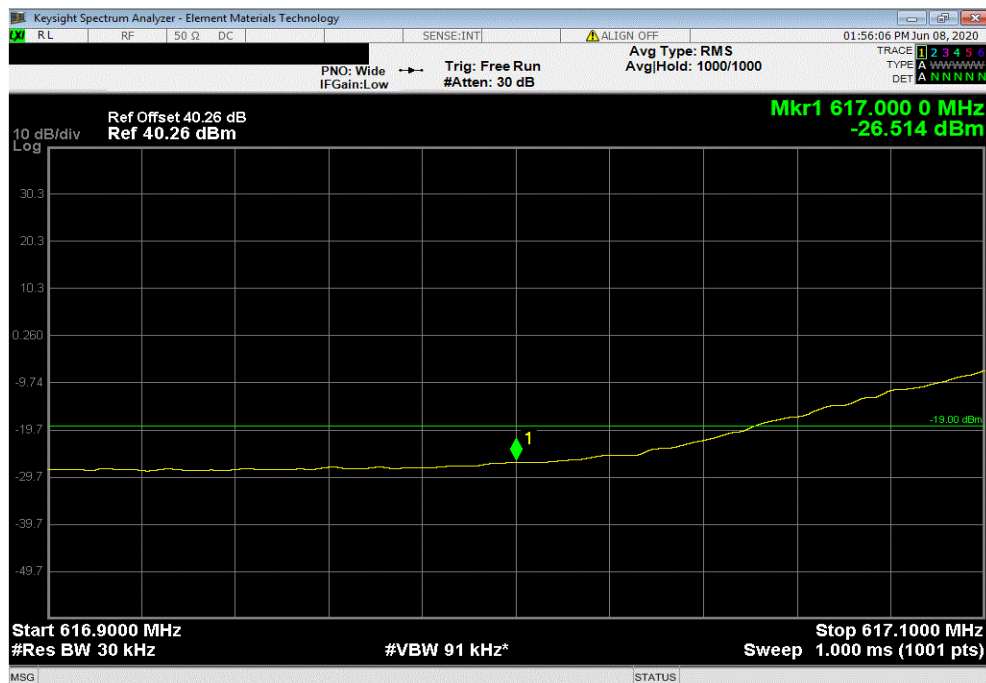


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 619.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-22.92	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 619.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-26.51	-19	Pass		

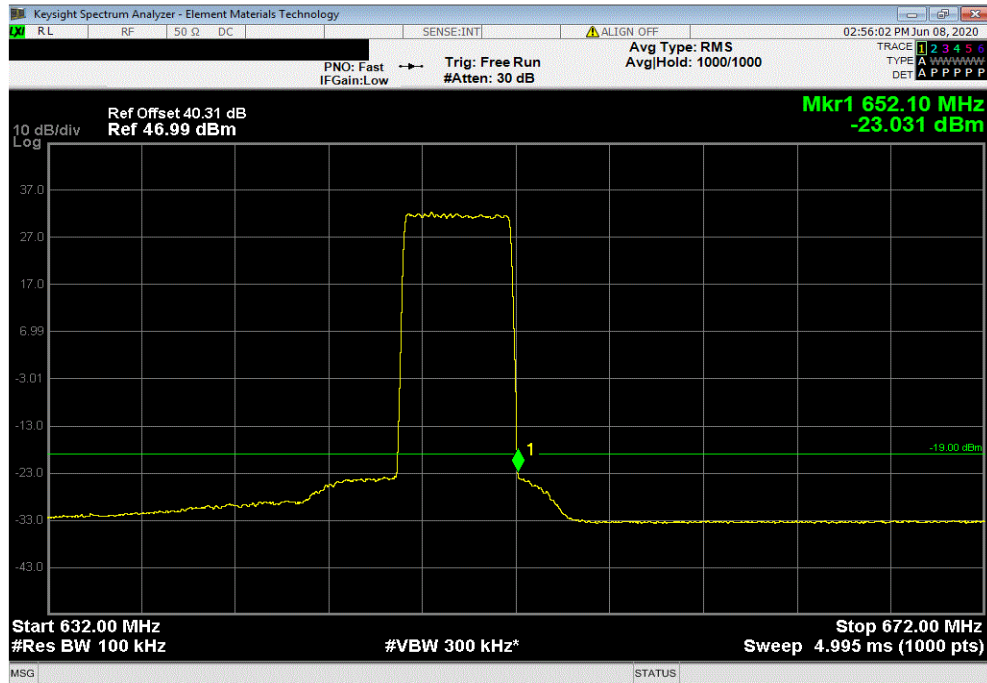


BAND EDGE COMPLIANCE

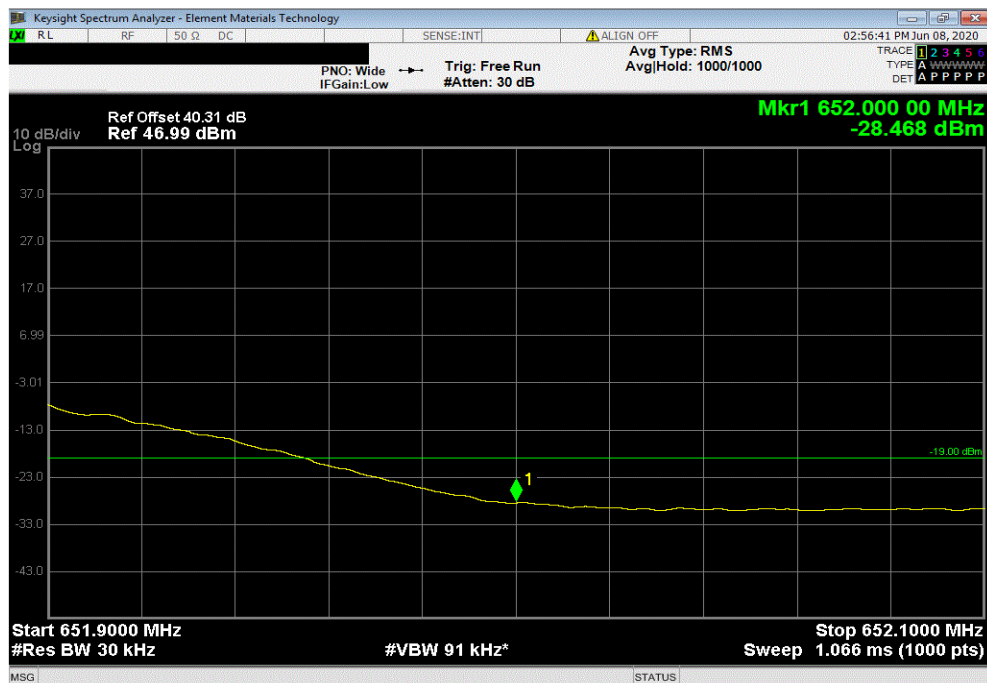


TMTx 2020.06.08.0 BETA XMR 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 649.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-23.03	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 649.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-28.47	-19	Pass		

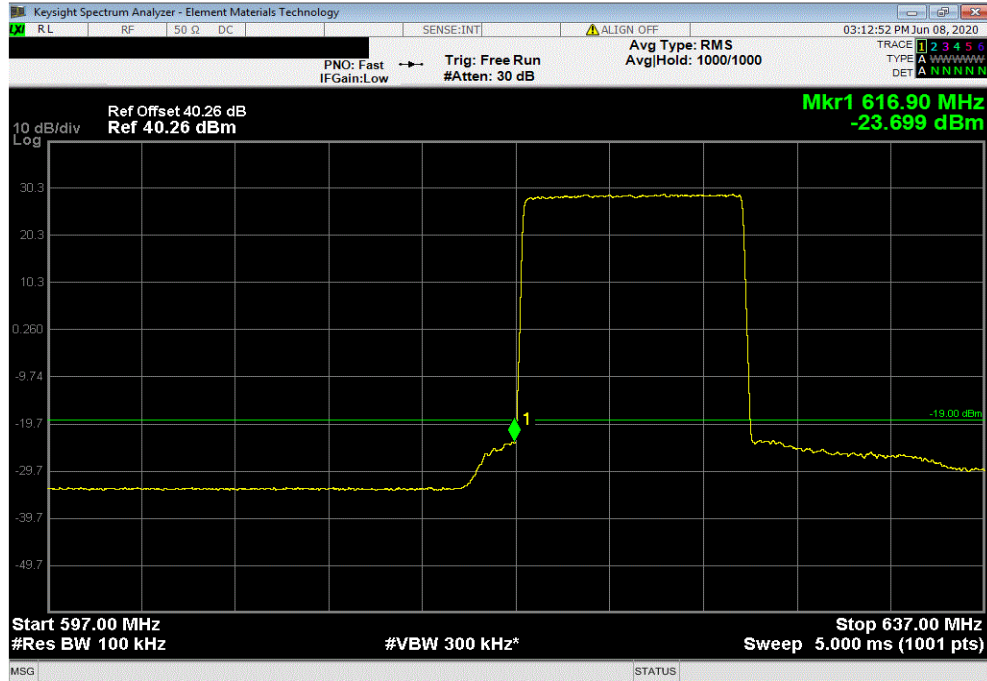


BAND EDGE COMPLIANCE

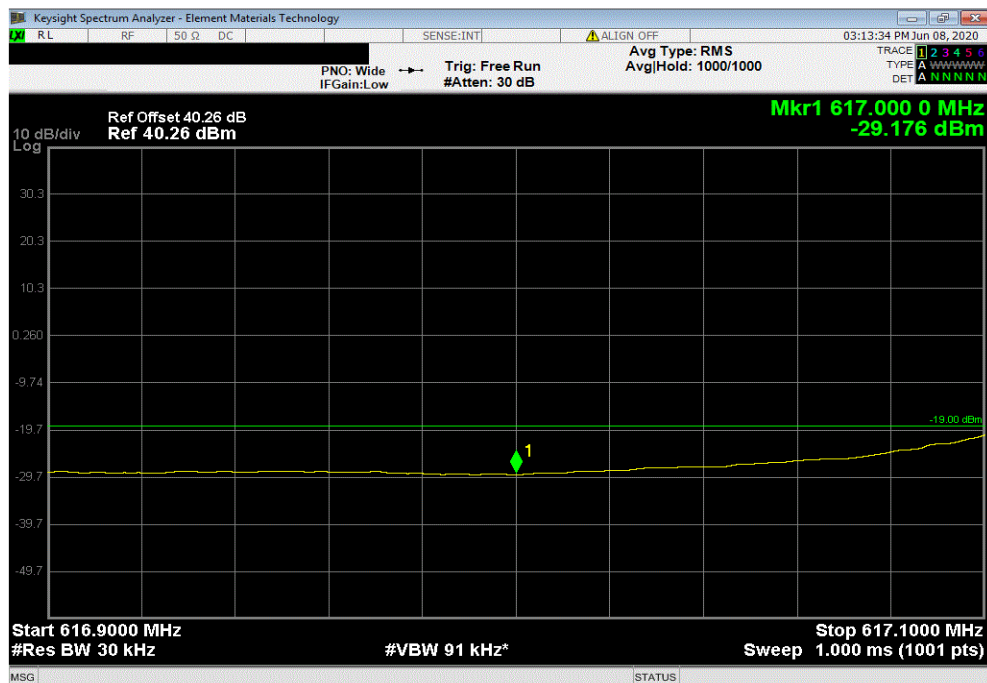


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 622 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-23.7	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 622 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-29.18	-19	Pass		

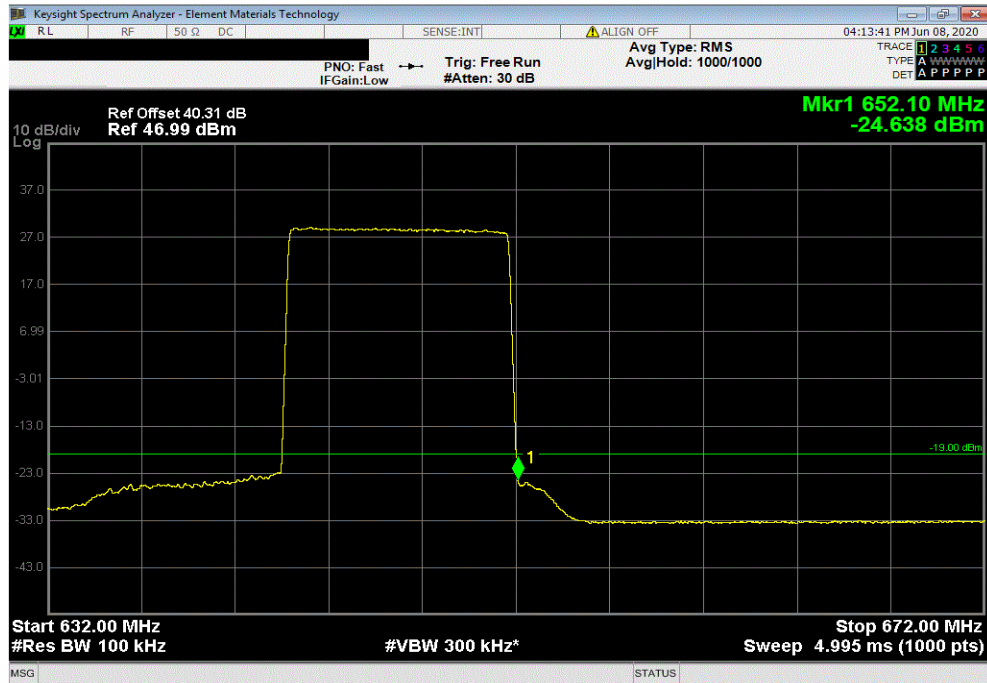


BAND EDGE COMPLIANCE

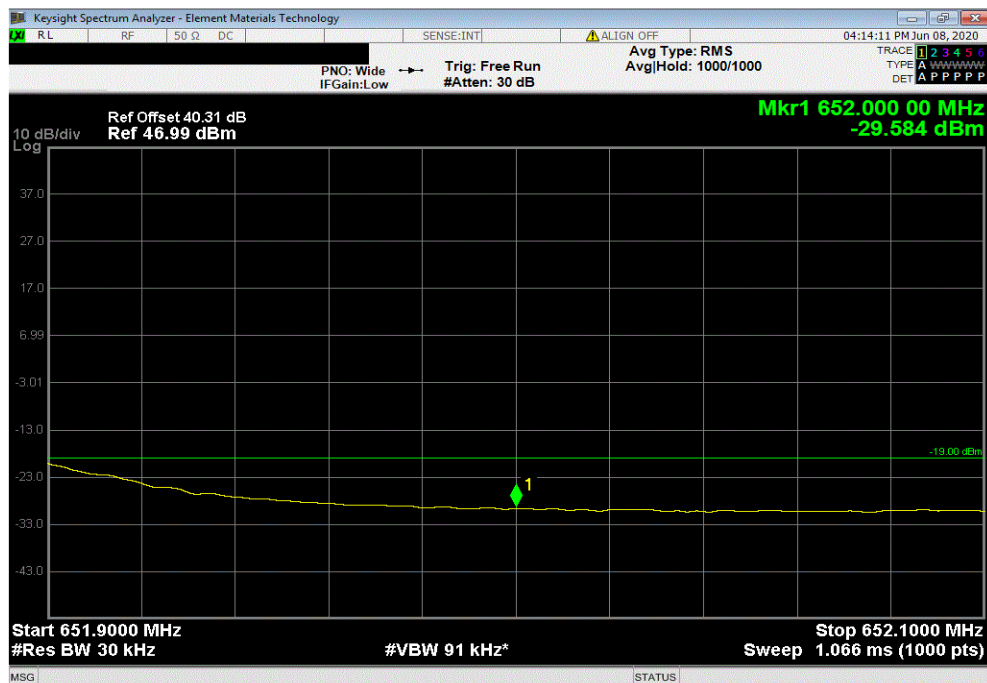


TMTx 2020.06.08.0 BETA XMH 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel, 647 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-24.64	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel, 647 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-29.58	-19	Pass		

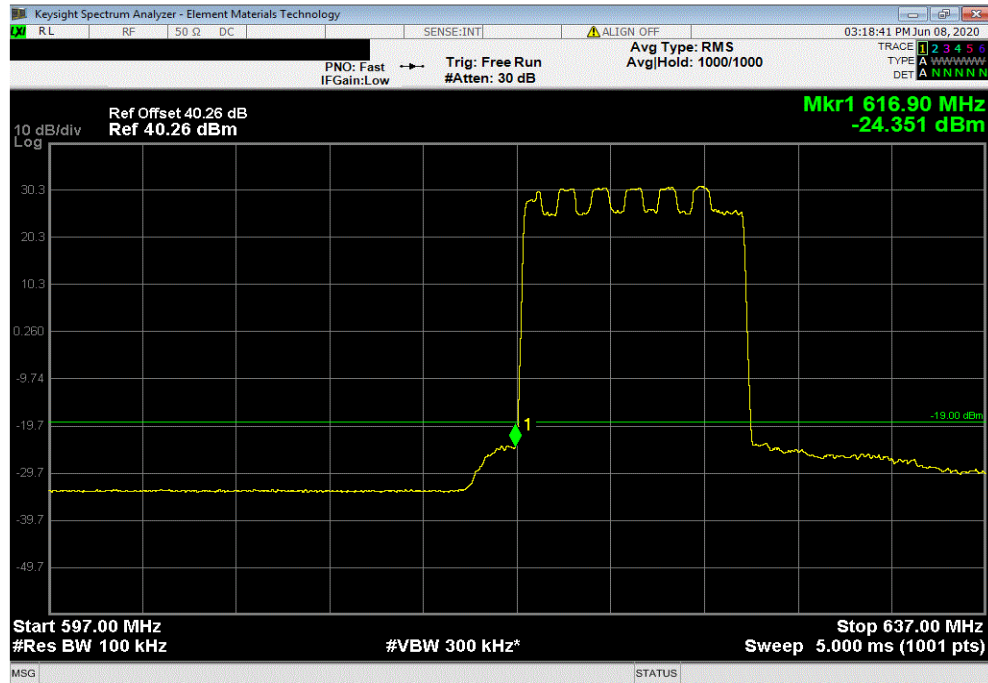


BAND EDGE COMPLIANCE

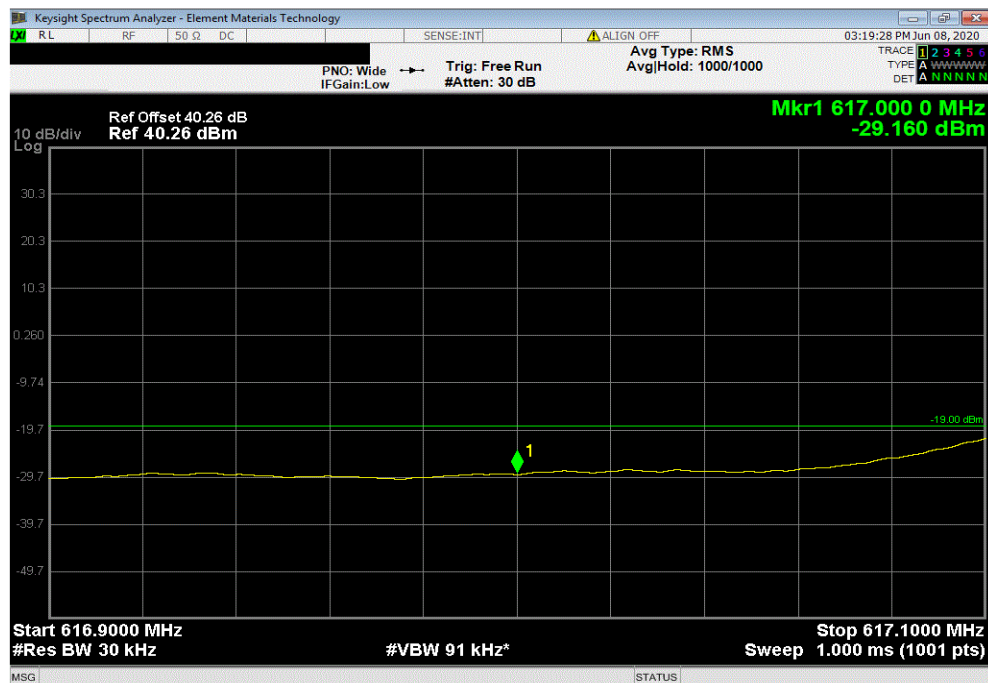


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel, 622 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-24.35	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel, 622 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-29.16	-19	Pass		

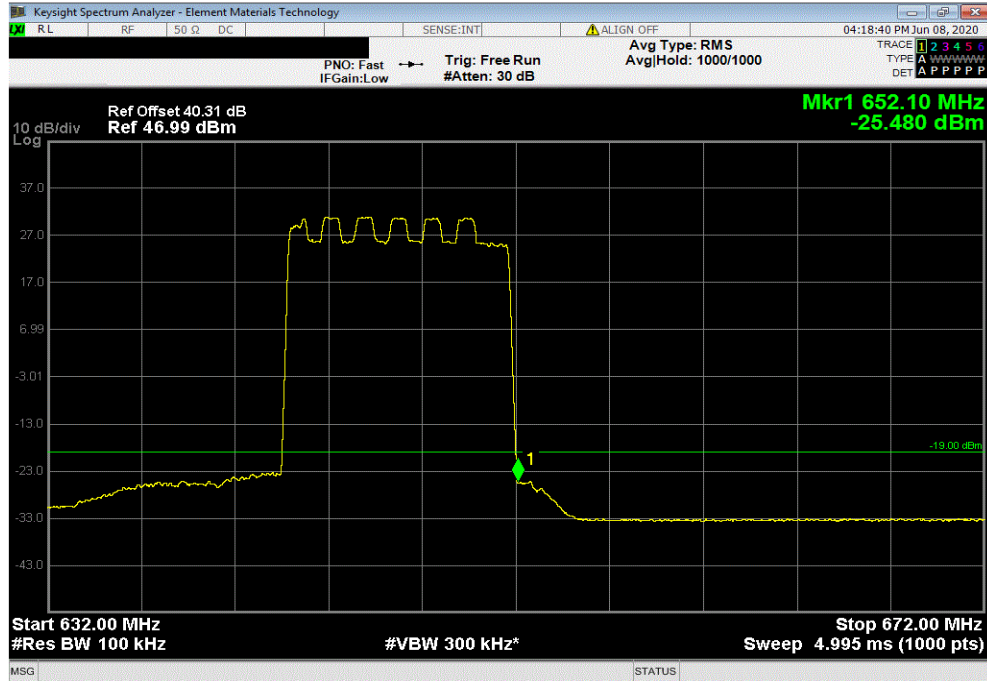


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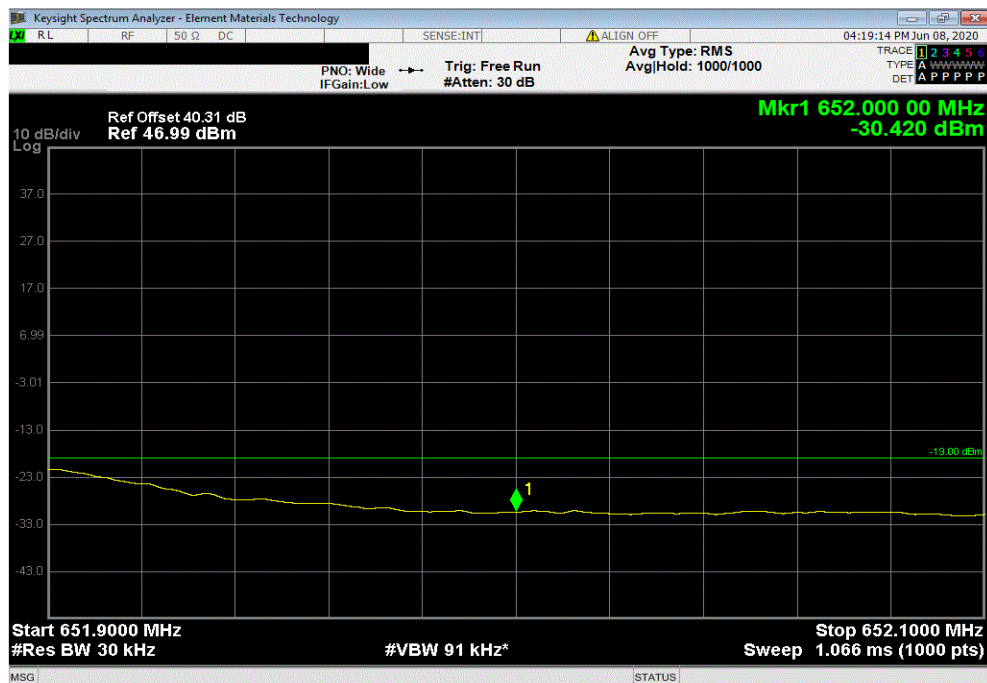


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel, 647 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-25.48	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel, 647 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-30.42	-19	Pass		

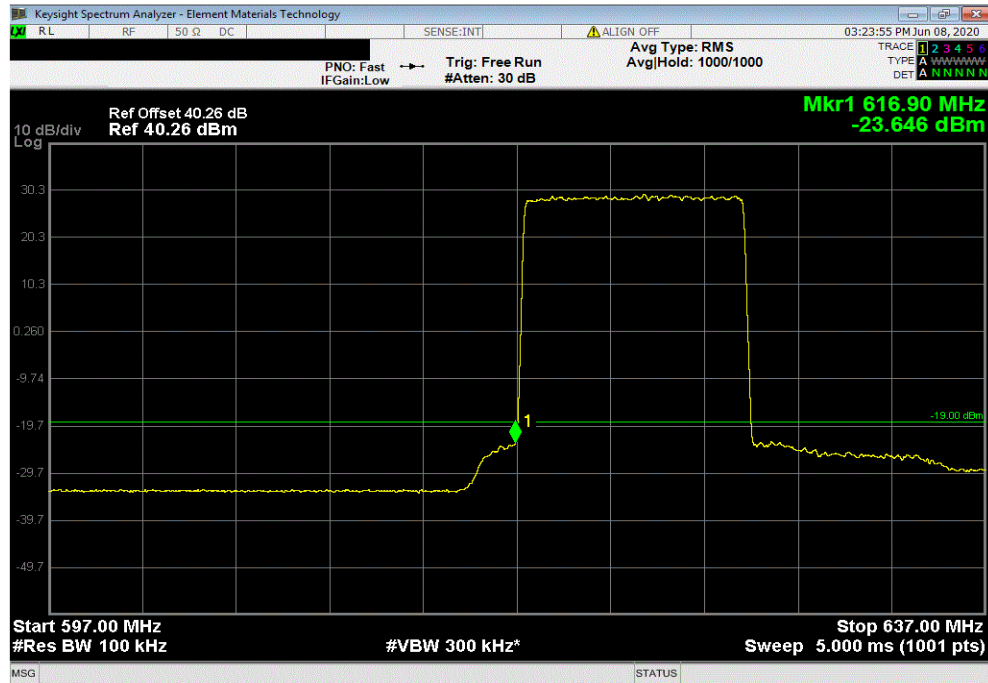


BAND EDGE COMPLIANCE

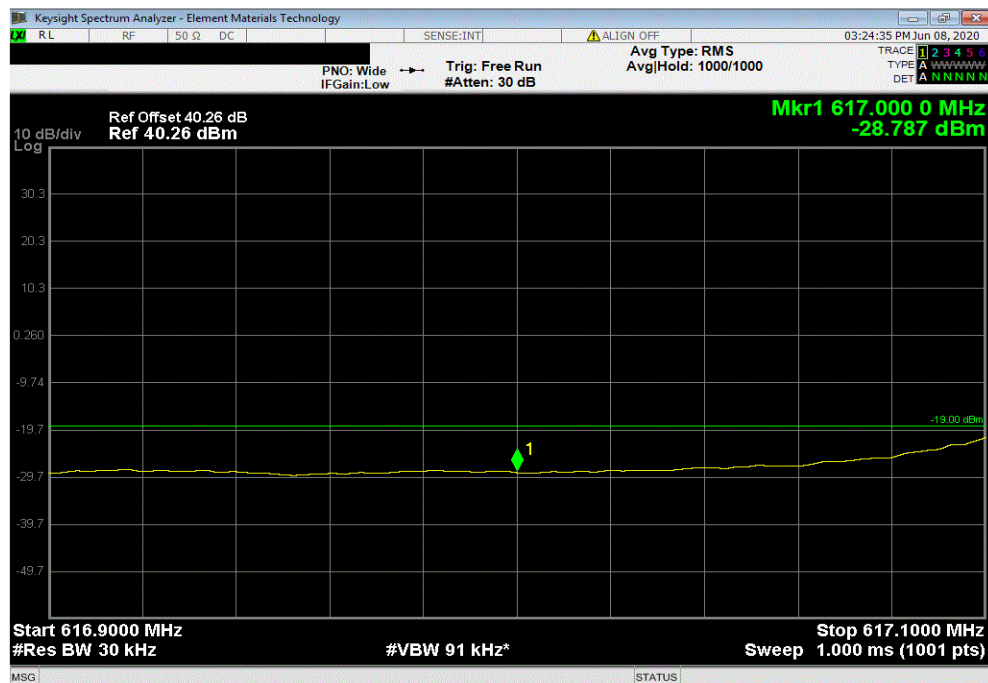


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel, 622 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-23.65	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel, 622 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-28.79	-19	Pass		

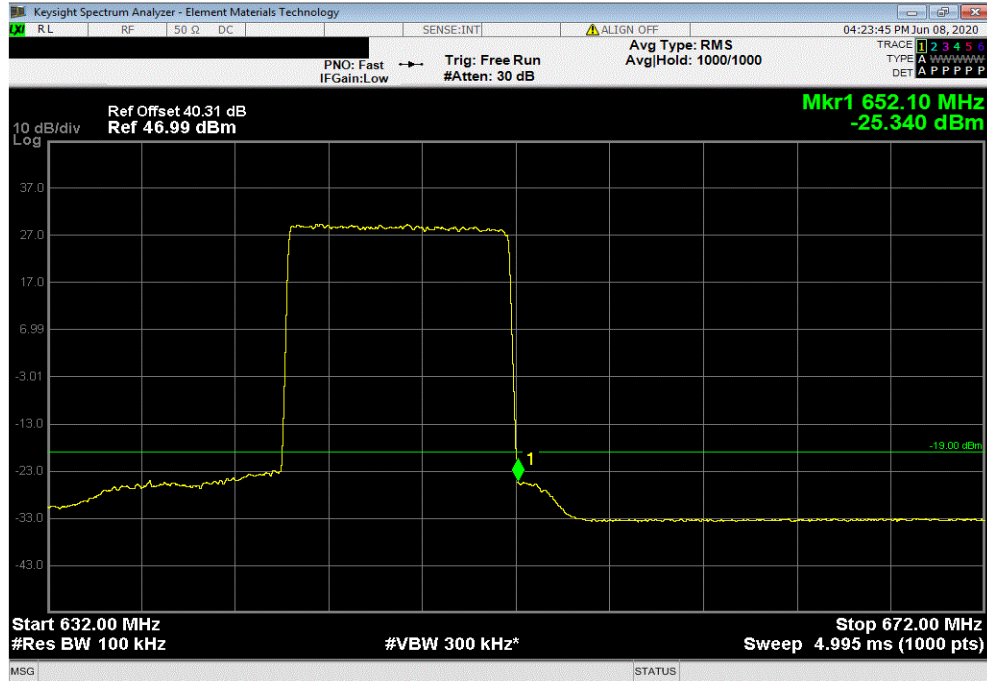


BAND EDGE COMPLIANCE

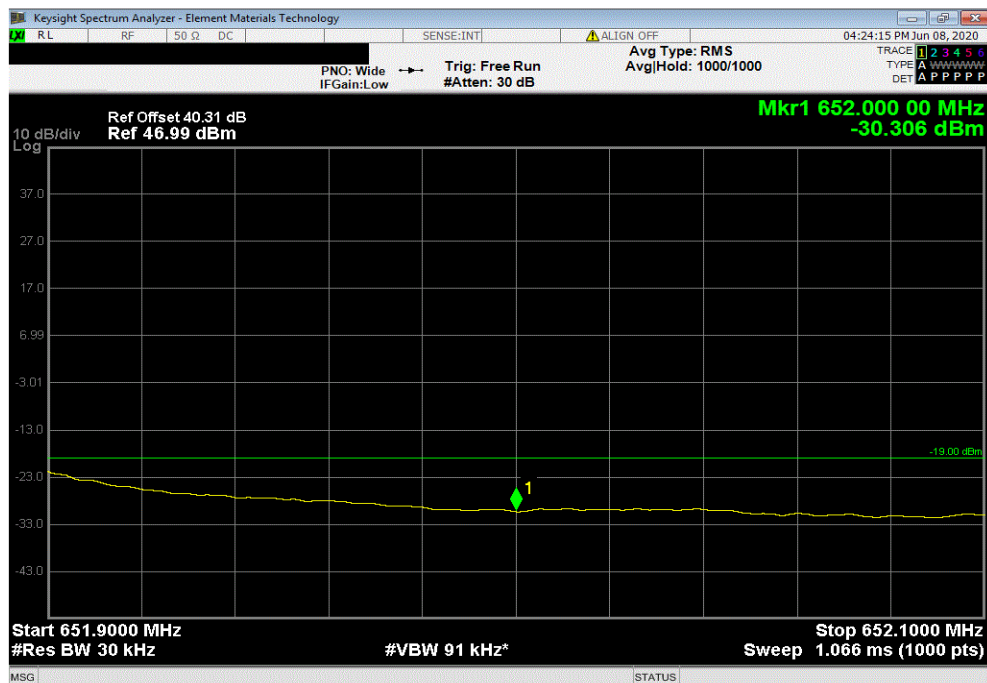


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 64-QAM Modulation, High Channel, 647 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-25.34	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 64-QAM Modulation, High Channel, 647 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-30.31	-19	Pass		

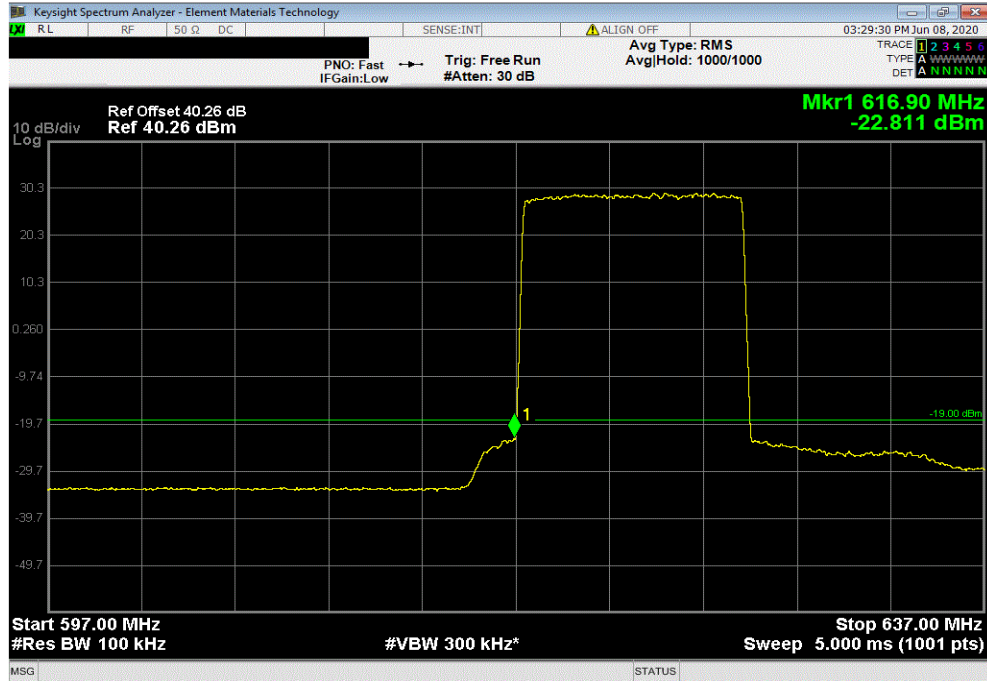


BAND EDGE COMPLIANCE

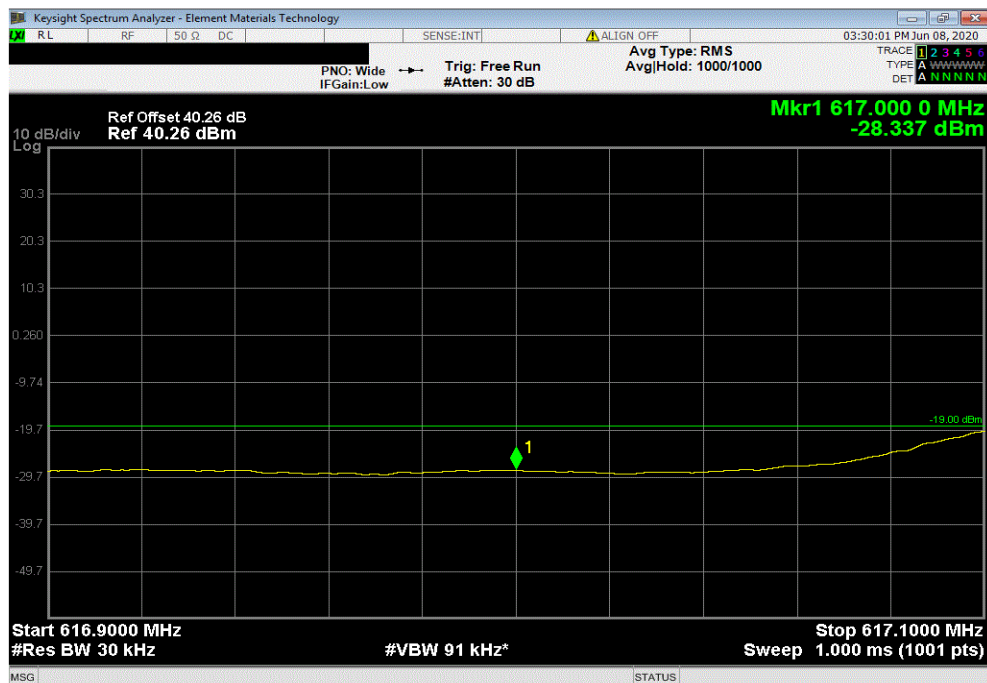


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 622 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-22.81	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 622 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-28.34	-19	Pass		

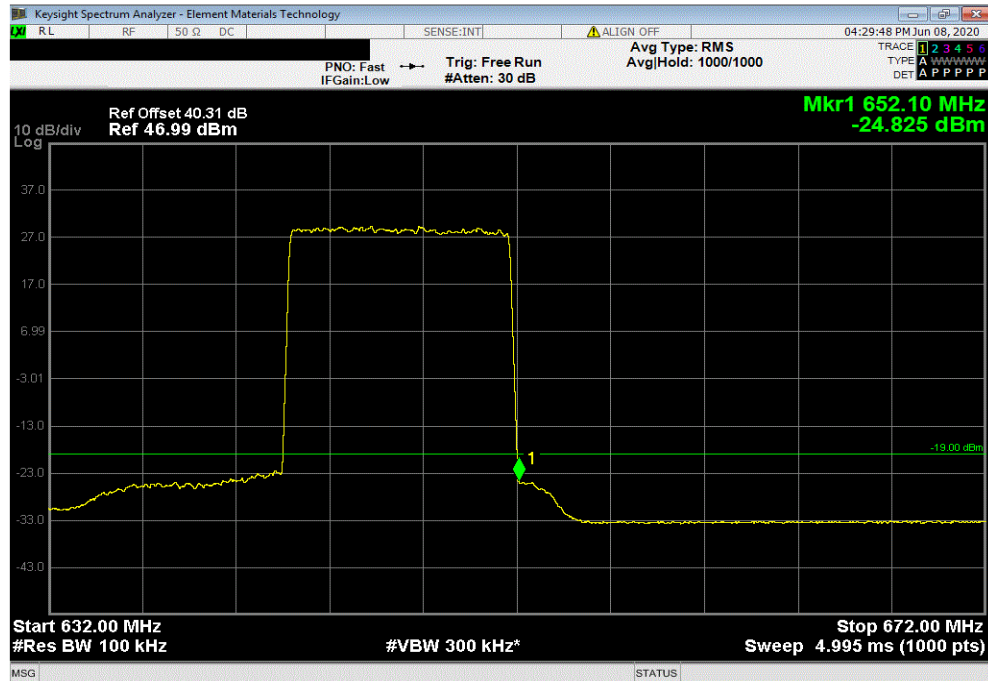


BAND EDGE COMPLIANCE

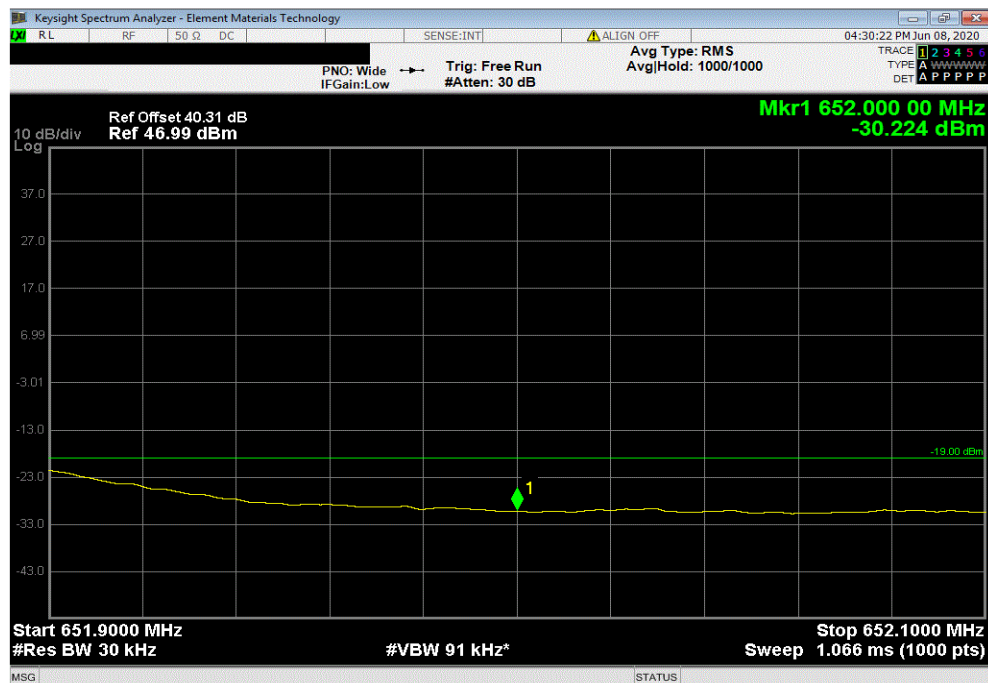


TMTx 2020.06.08.0 BETA XMR 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 647 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-24.83	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 647 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-30.22	-19	Pass		

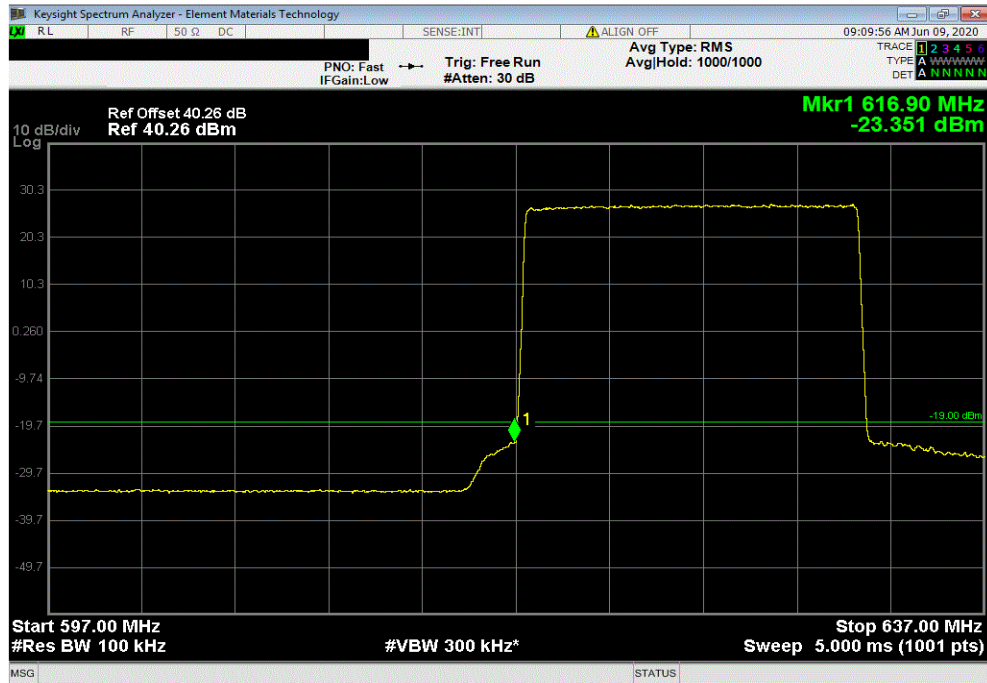


BAND EDGE COMPLIANCE

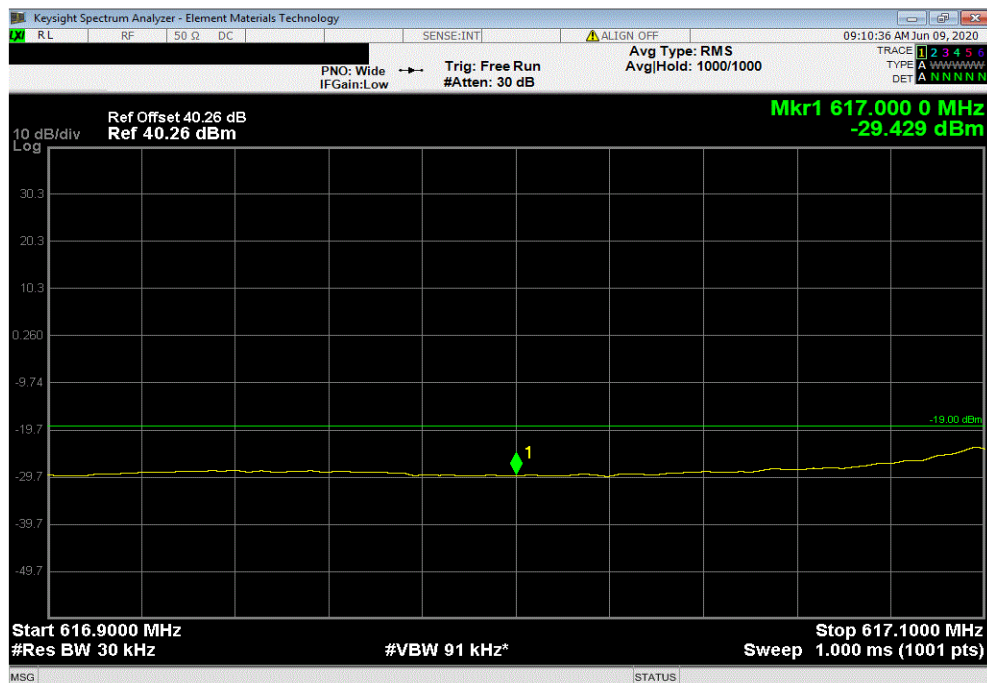


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, QPSK Modulation, Low Channel, 624.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-23.35	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, QPSK Modulation, Low Channel, 624.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-29.43	-19	Pass		

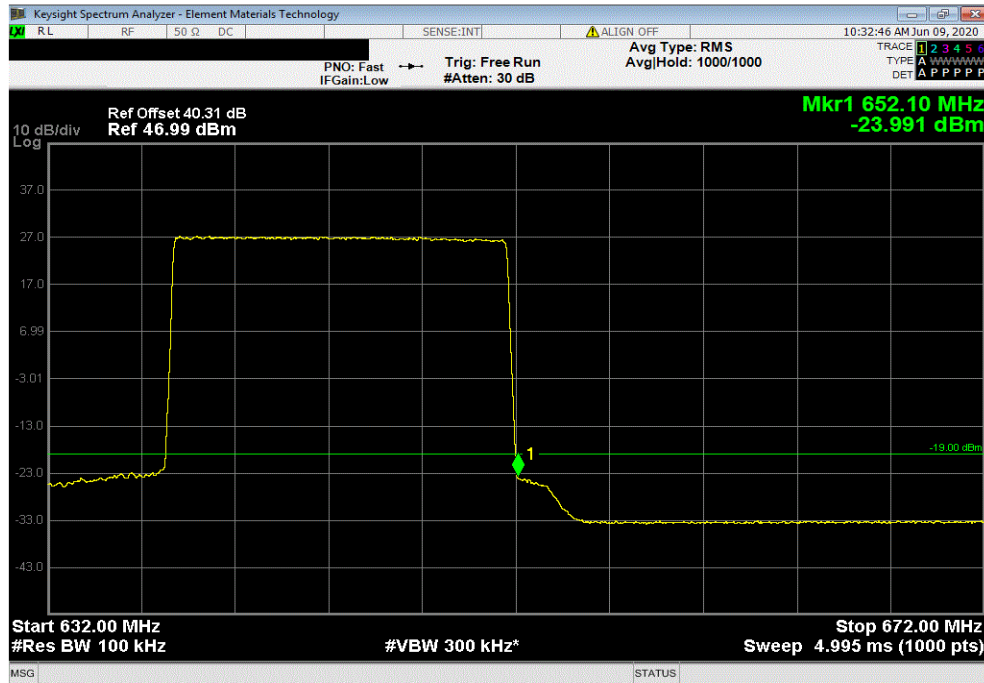


BAND EDGE COMPLIANCE

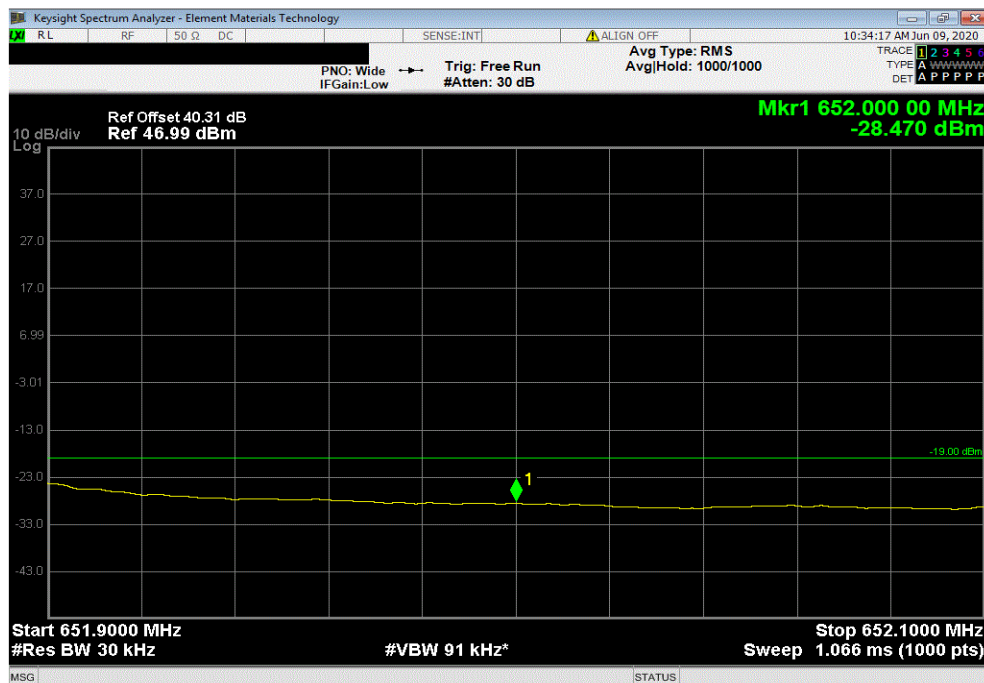


TMTx 2020.06.08.0 BETA XMR 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, QPSK Modulation, High Channel, 644.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-23.99	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, QPSK Modulation, High Channel, 644.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-28.47	-19	Pass		

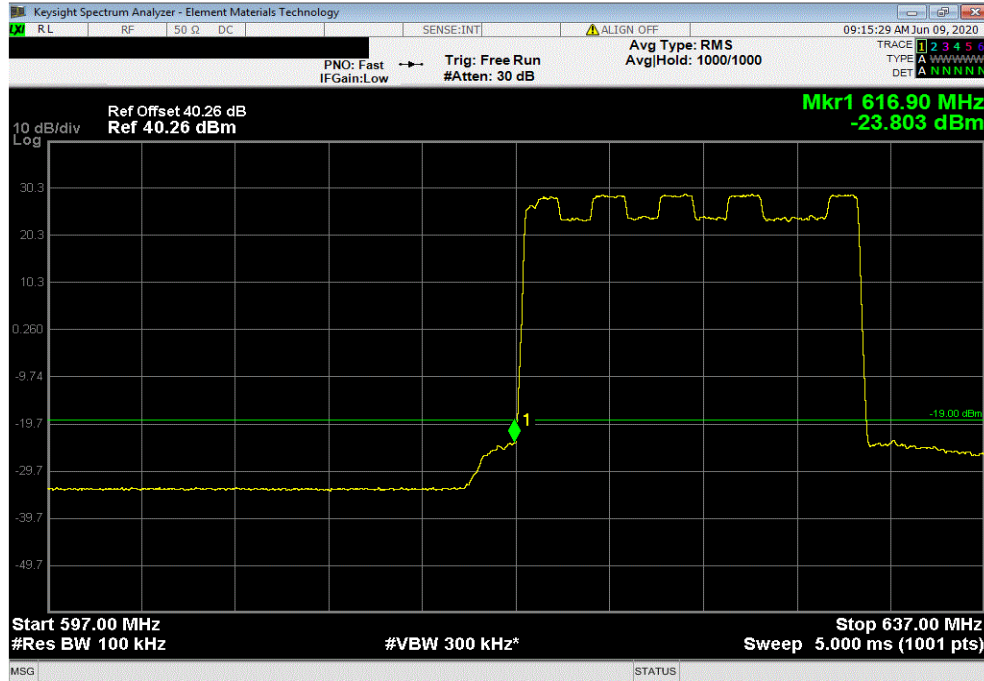


BAND EDGE COMPLIANCE

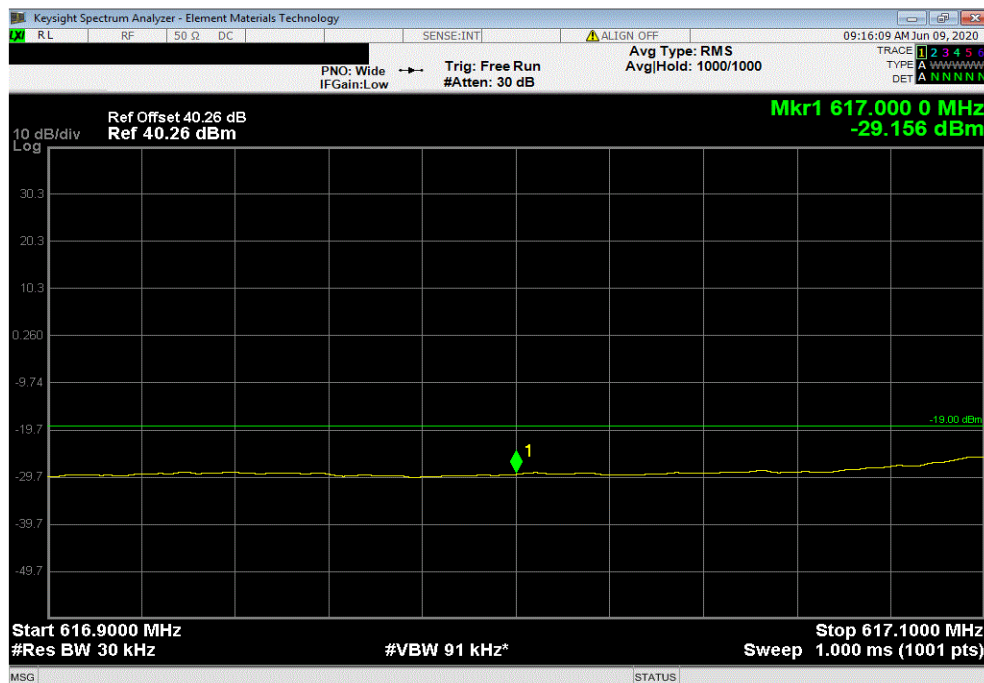


TMTx 2020.06.08.0 BETA XMH 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel, 624.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-23.8	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel, 624.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-29.16	-19	Pass		

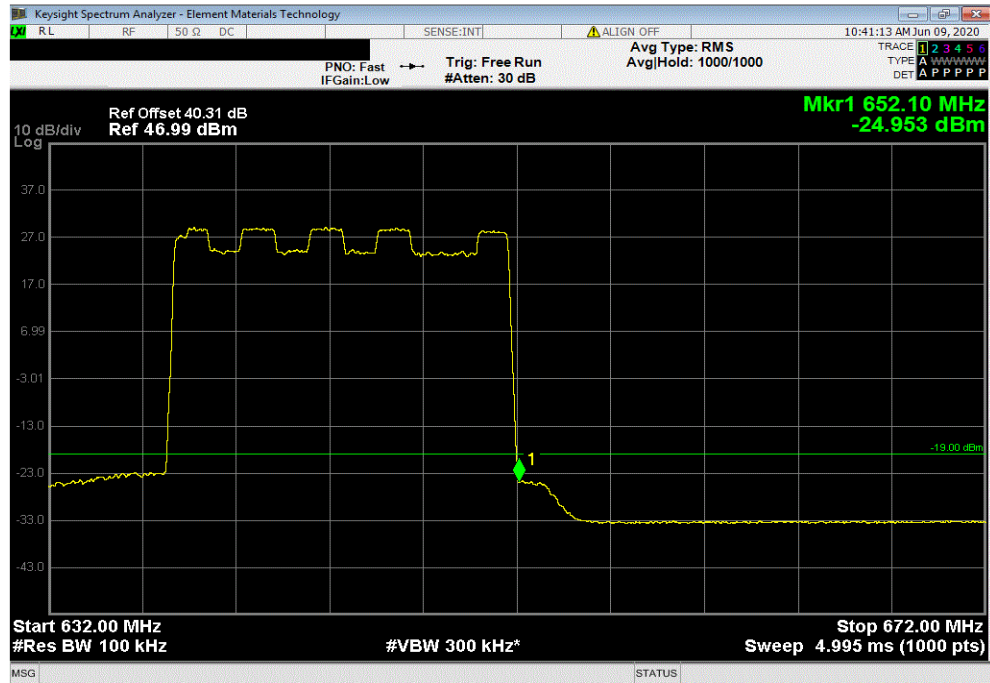


BAND EDGE COMPLIANCE

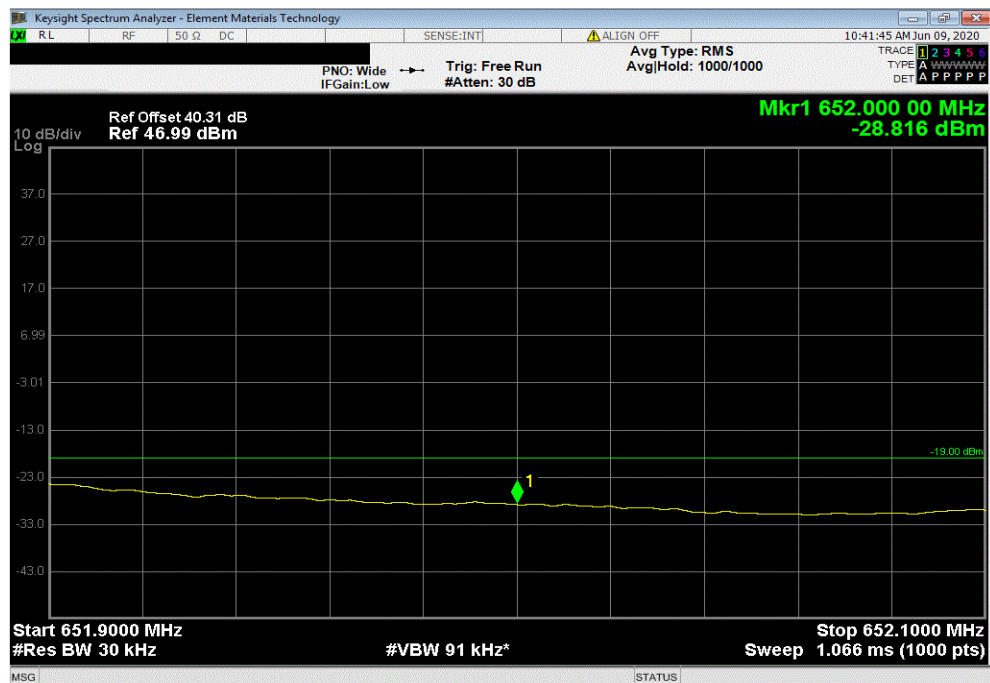


TMTx 2020.06.08.0 BETA XMR 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 16-QAM Modulation, High Channel, 644.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-24.95	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 16-QAM Modulation, High Channel, 644.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-28.82	-19	Pass		

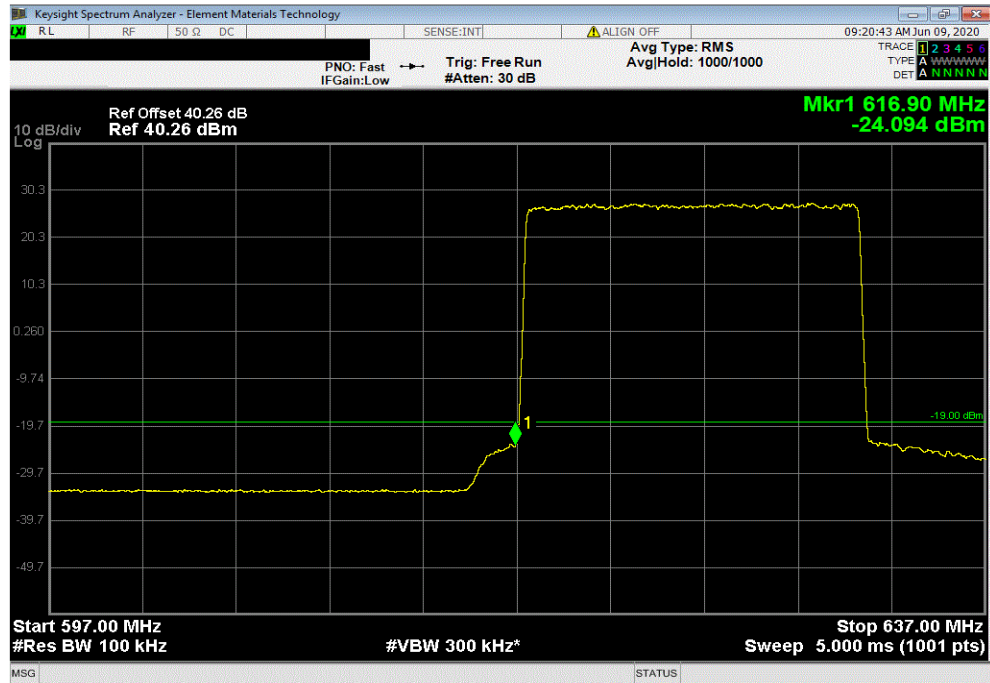


BAND EDGE COMPLIANCE

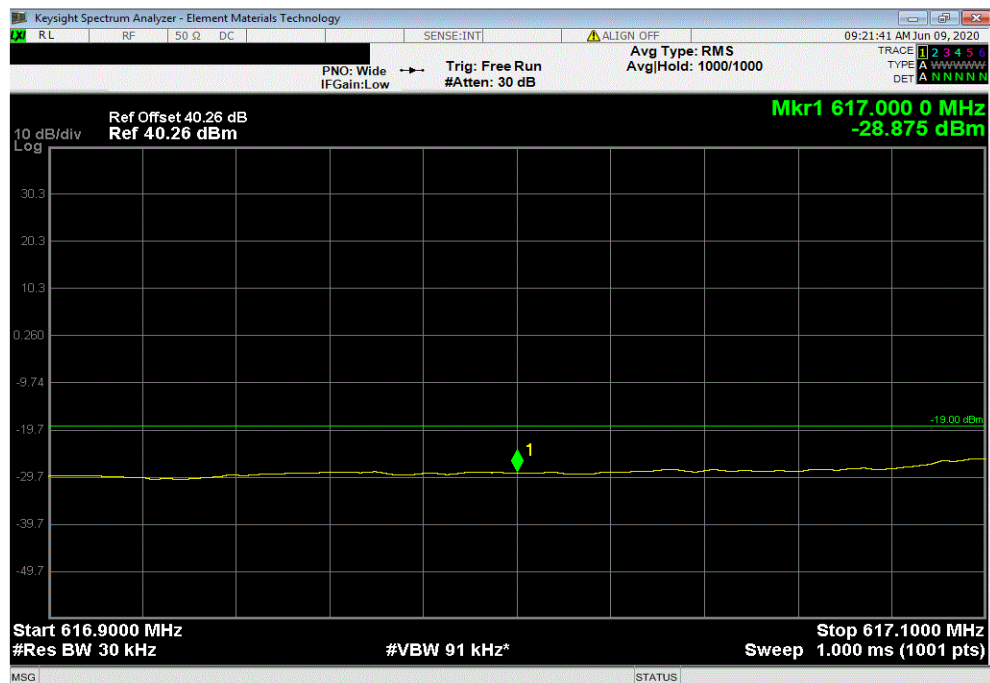


TMTx 2020.06.08.0 BETA XMH 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel, 624.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-24.09	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel, 624.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-28.88	-19	Pass		

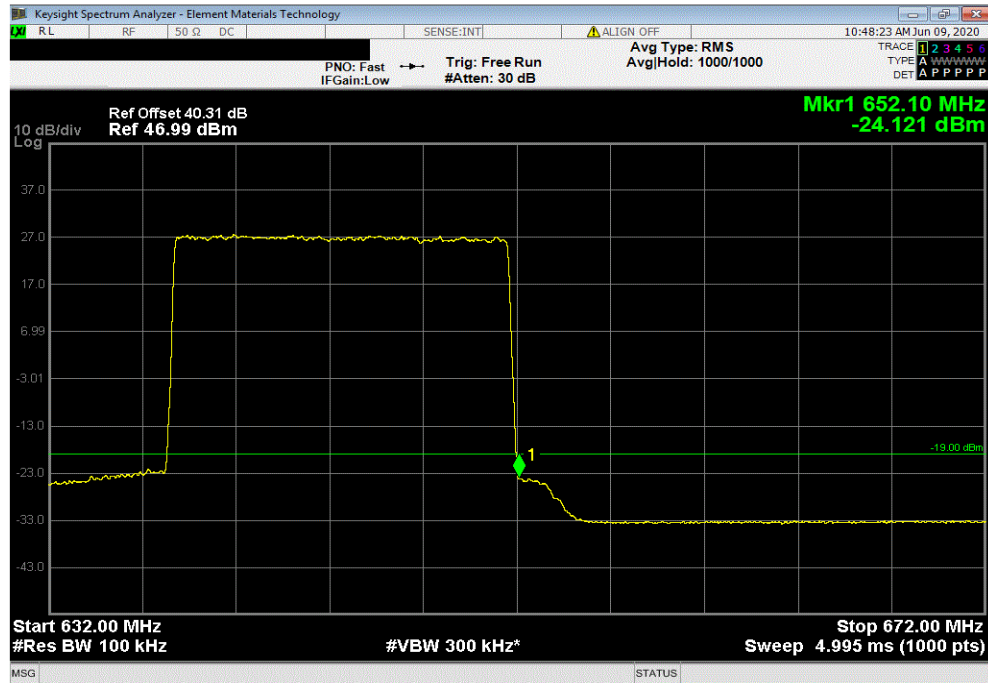


BAND EDGE COMPLIANCE

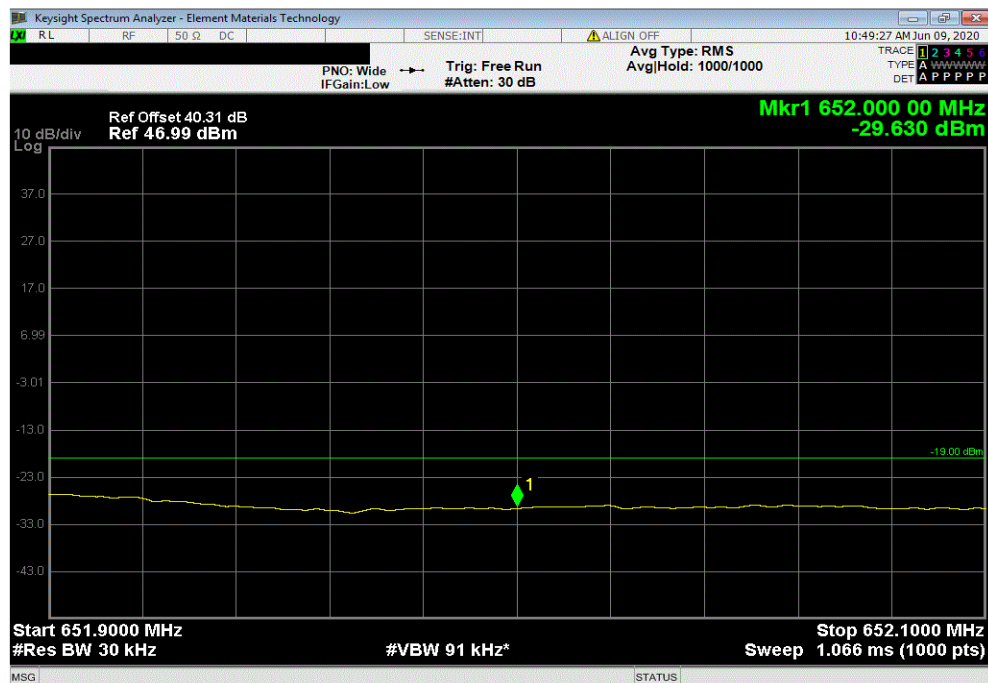


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Channel, 644.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-24.12	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Channel, 644.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-29.63	-19	Pass		

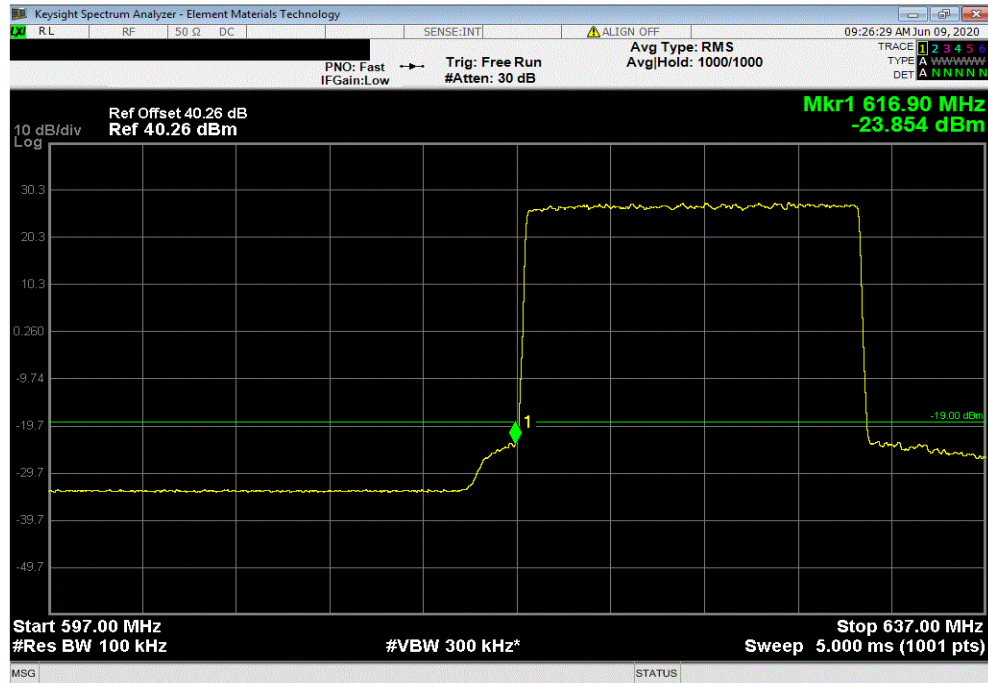


BAND EDGE COMPLIANCE

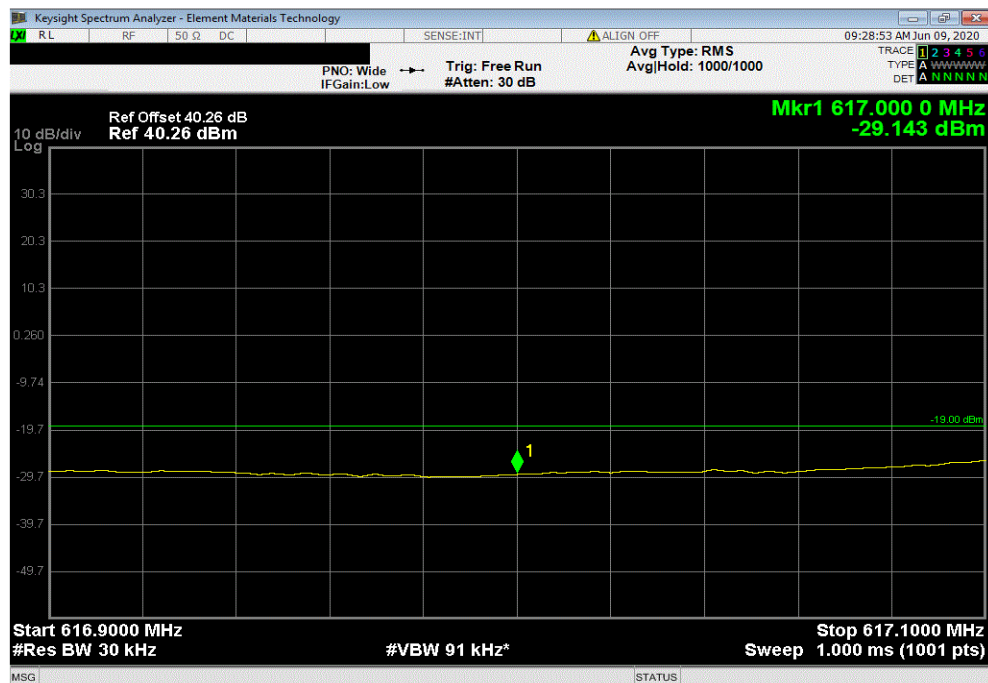


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 624.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-23.85	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 624.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-29.14	-19	Pass		

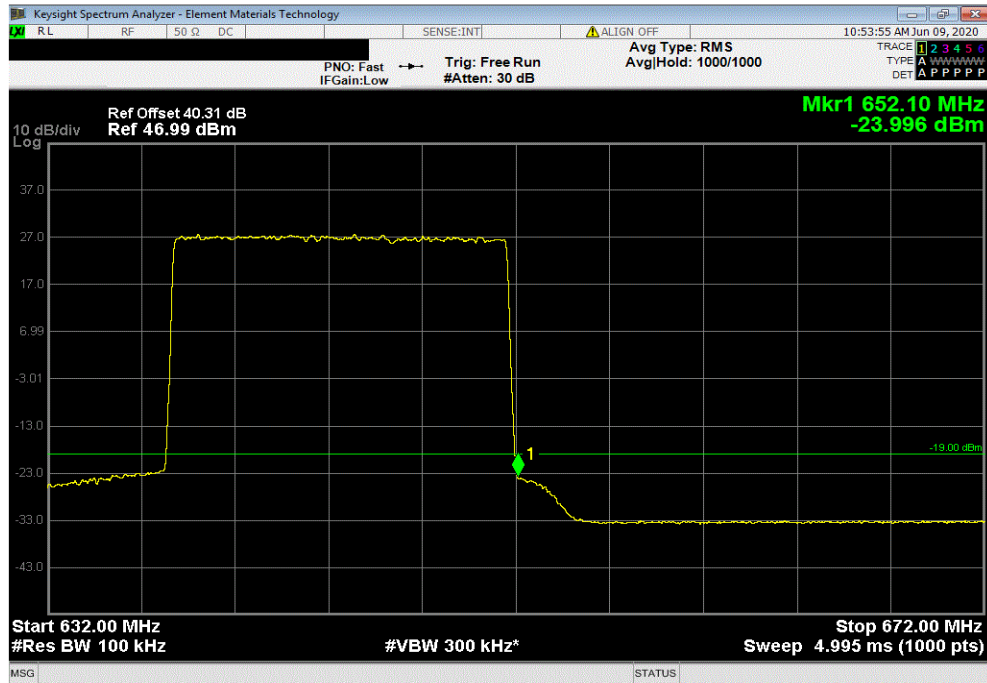


BAND EDGE COMPLIANCE

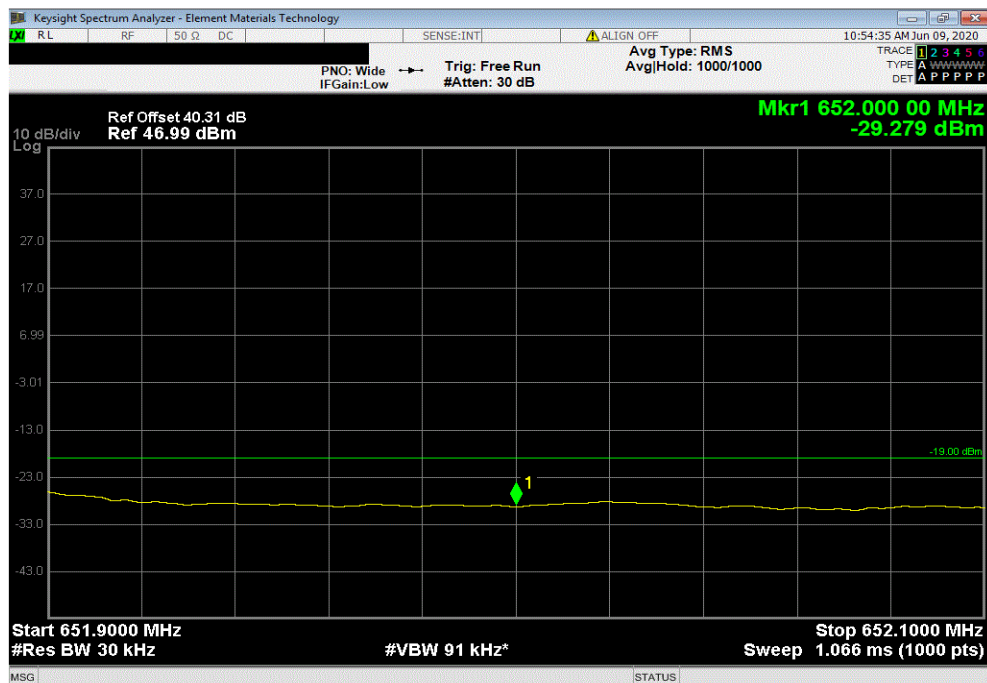


TMTx 2020.06.08.0 BETA XMH 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 644.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-24	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 644.5 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-29.28	-19	Pass		

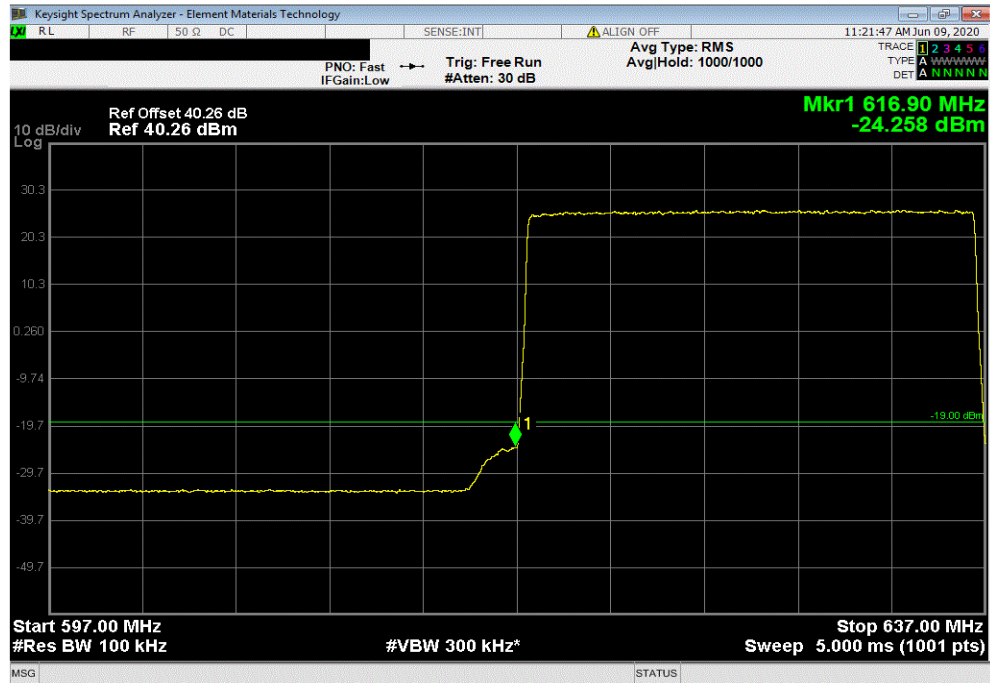


BAND EDGE COMPLIANCE

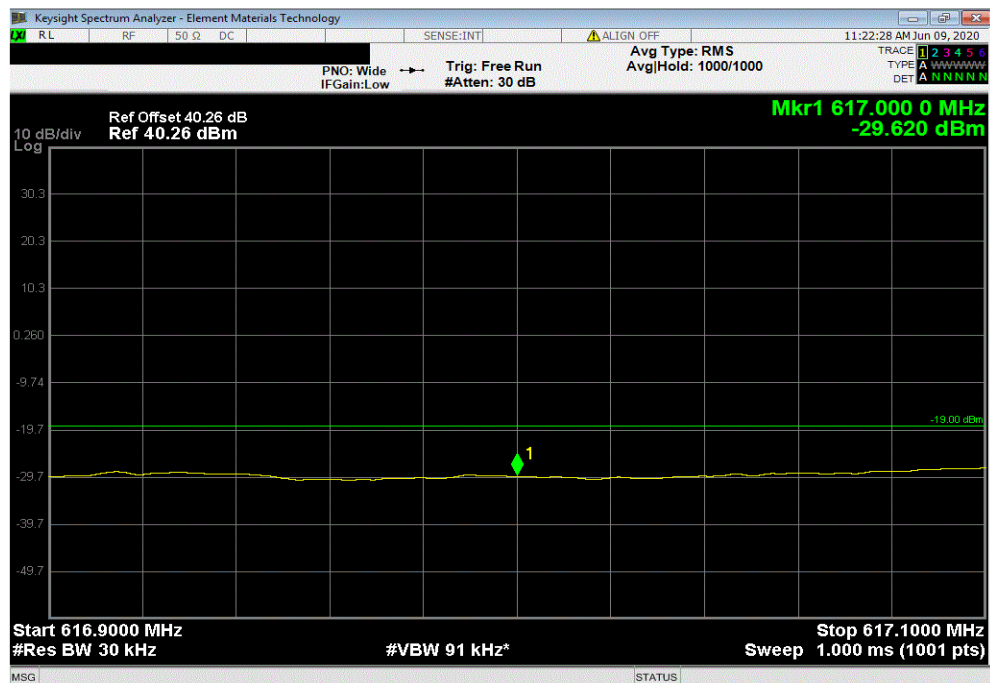


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel, 627 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-24.26	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel, 627 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-29.62	-19	Pass		

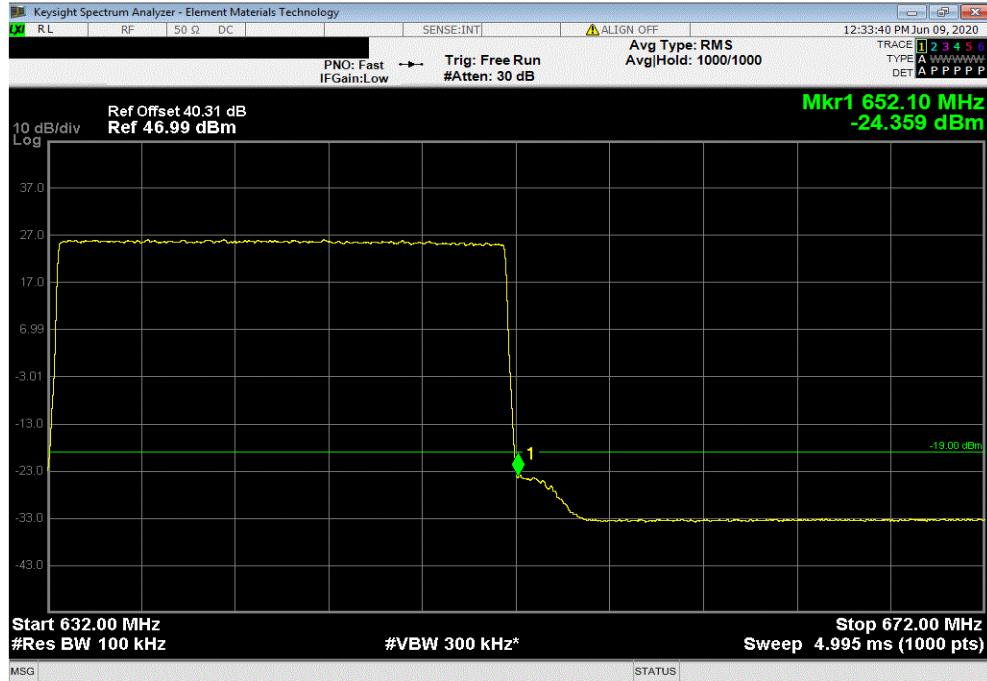


BAND EDGE COMPLIANCE

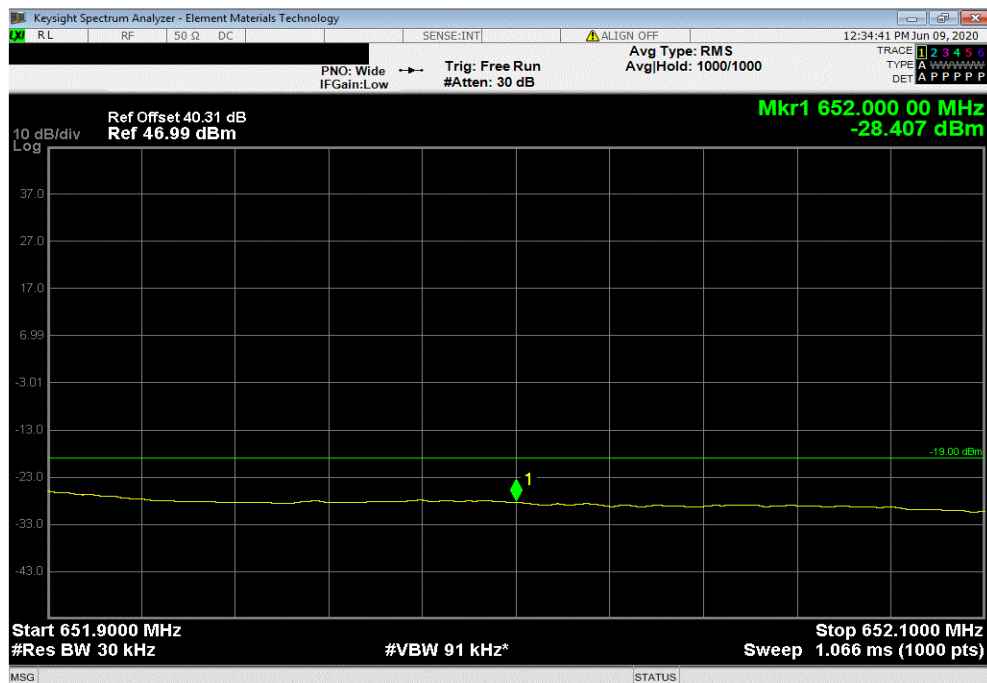


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel, 642 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-24.36	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel, 642 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-28.41	-19	Pass		

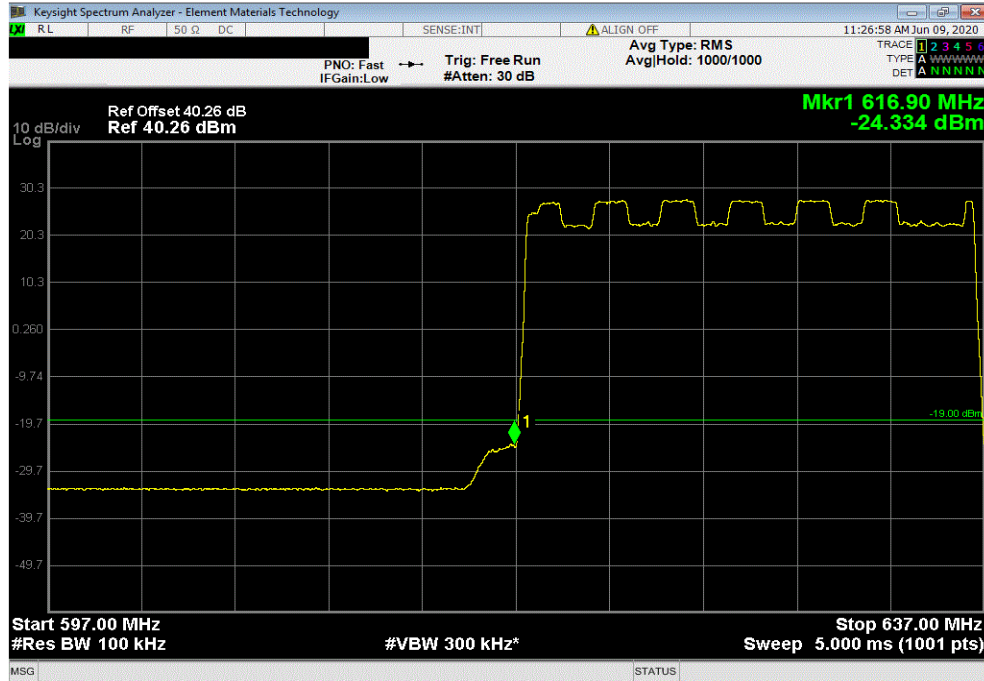


BAND EDGE COMPLIANCE

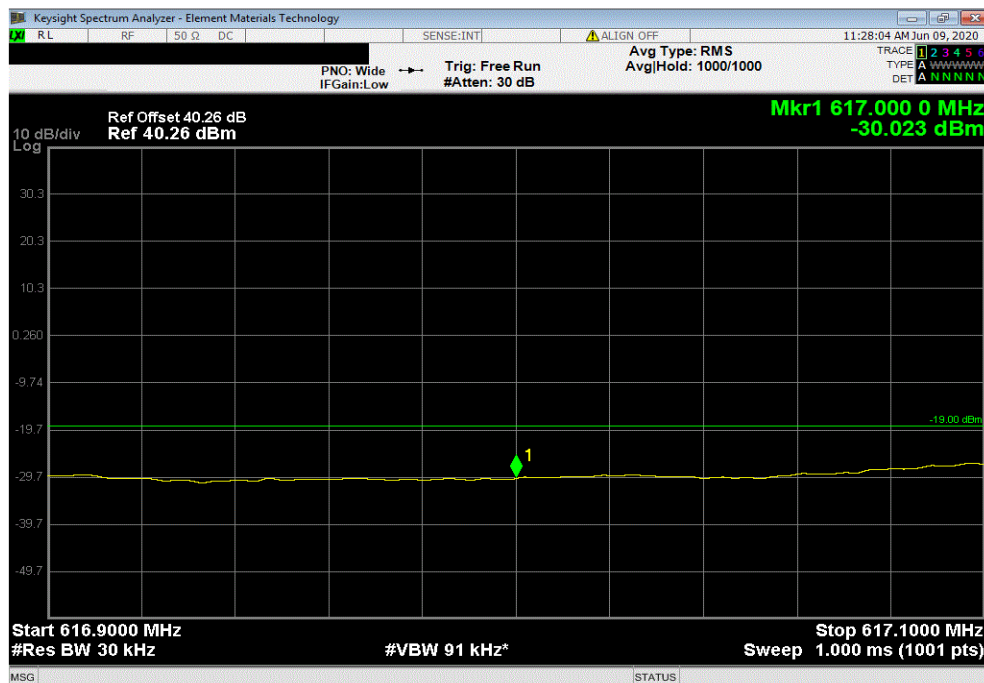


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel, 627 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-24.33	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel, 627 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
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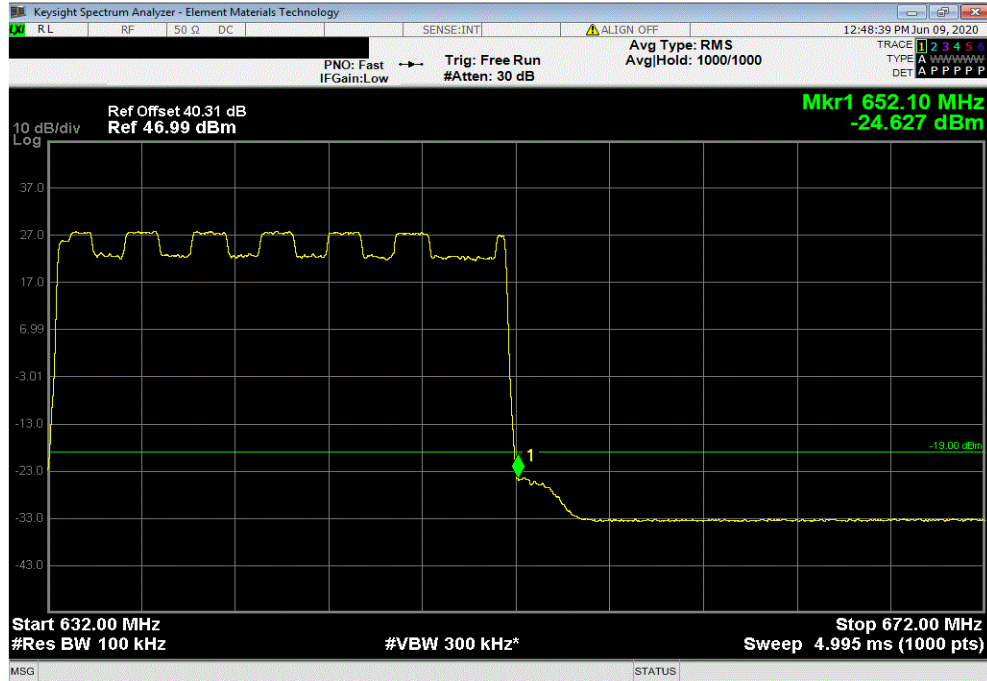


BAND EDGE COMPLIANCE

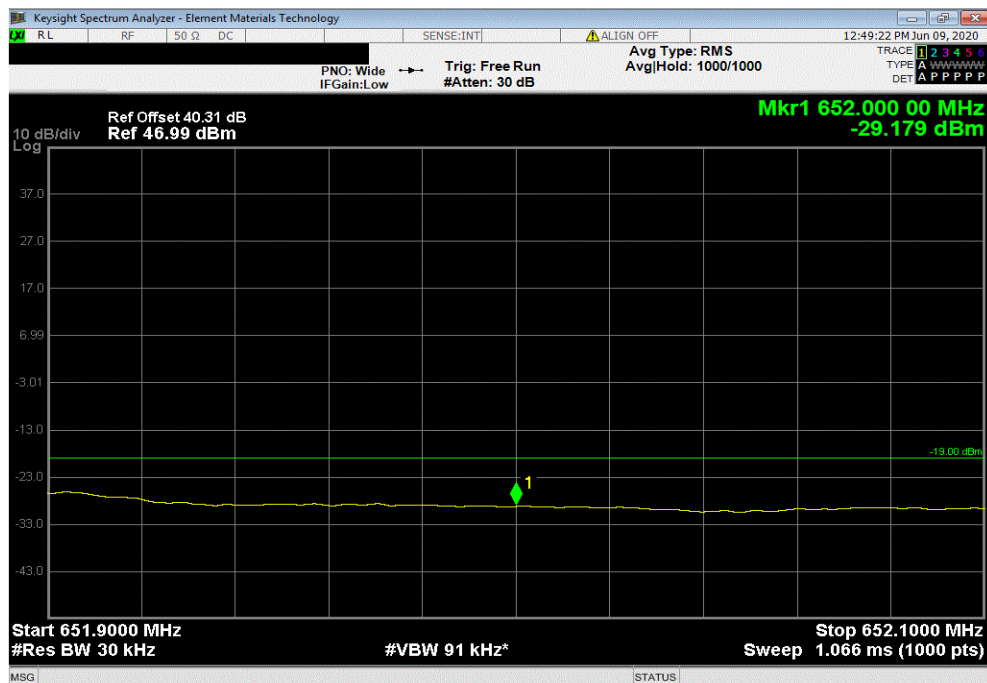


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel, 642 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-24.63	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel, 642 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-29.18	-19	Pass		

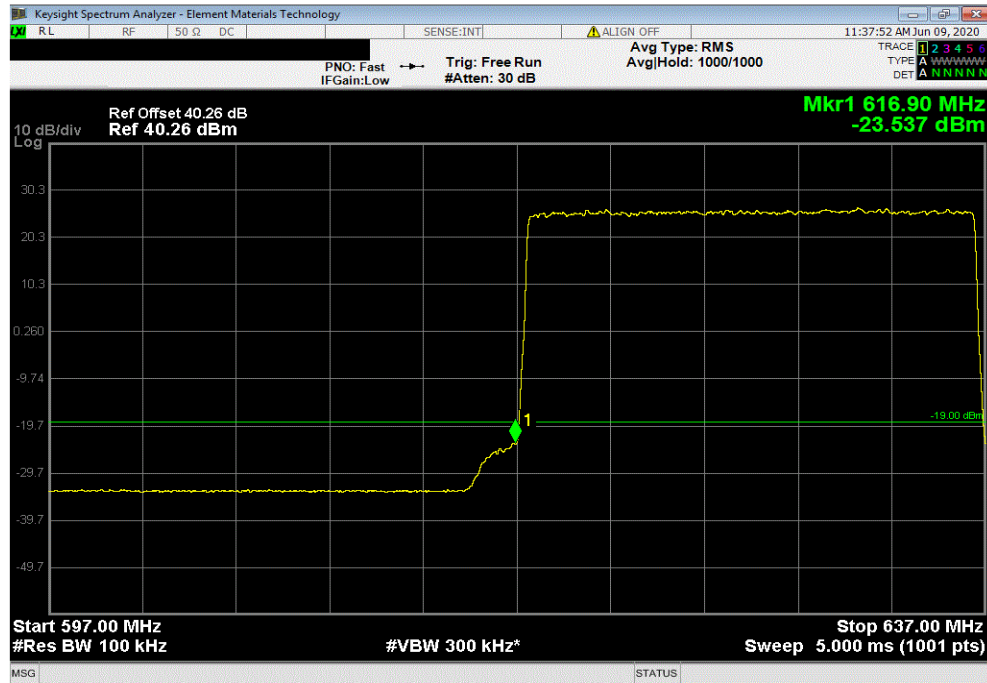


BAND EDGE COMPLIANCE

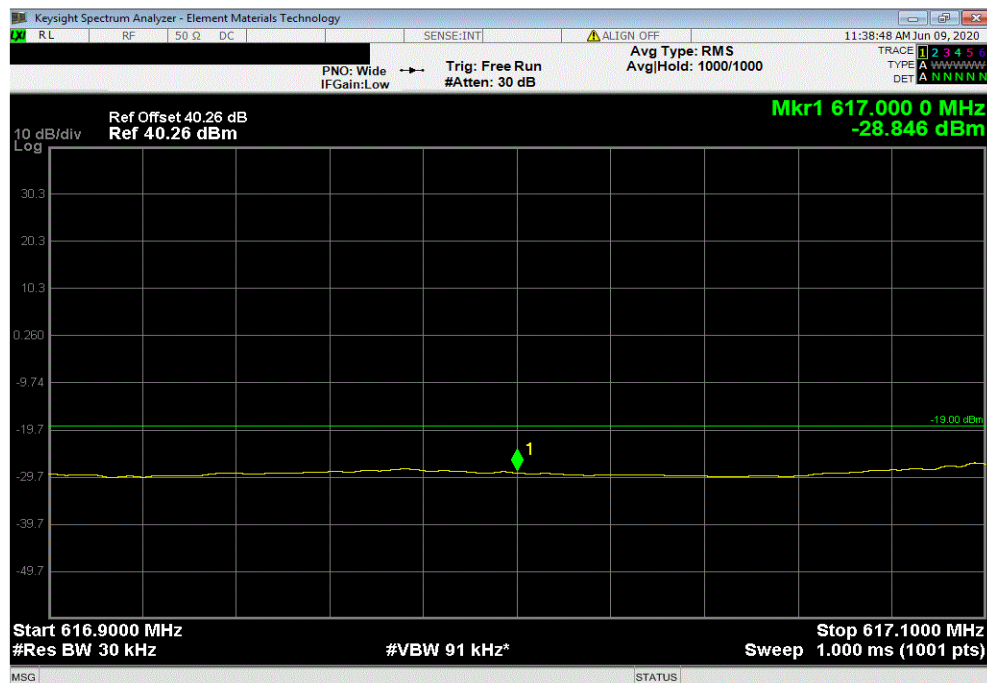


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel, 627 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-23.54	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel, 627 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-28.85	-19	Pass		

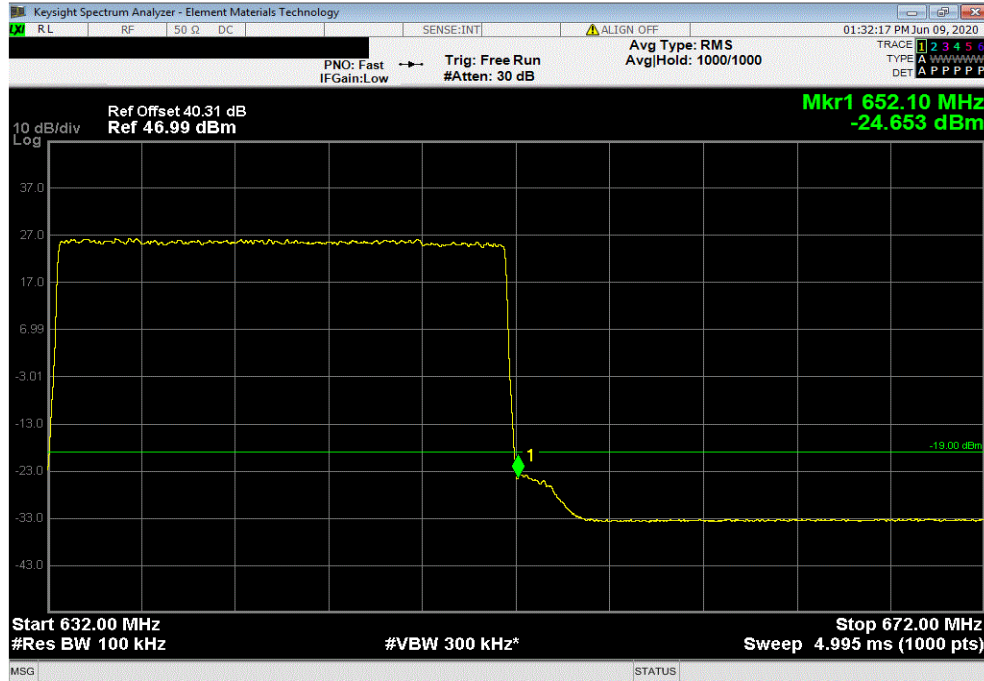


BAND EDGE COMPLIANCE

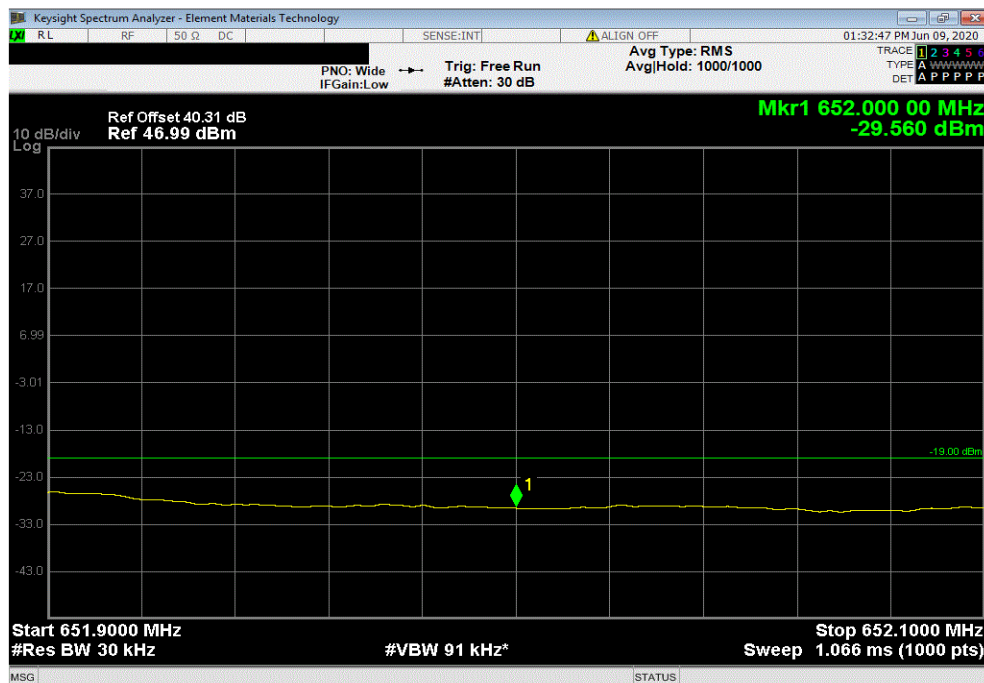


TMTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel, 642 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-24.65	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel, 642 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-29.56	-19	Pass		

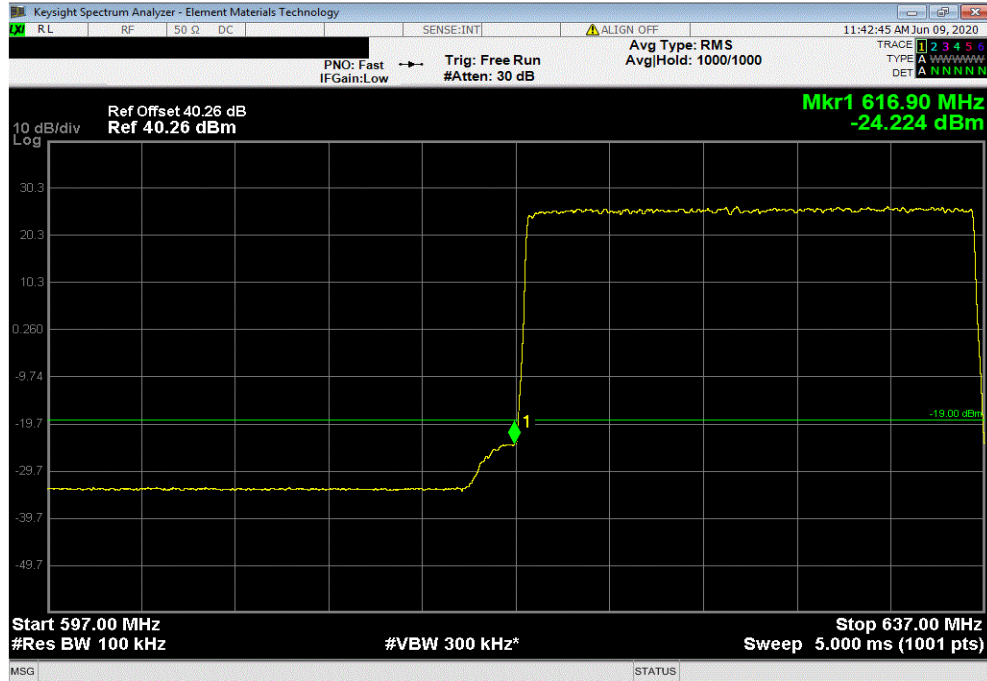


BAND EDGE COMPLIANCE

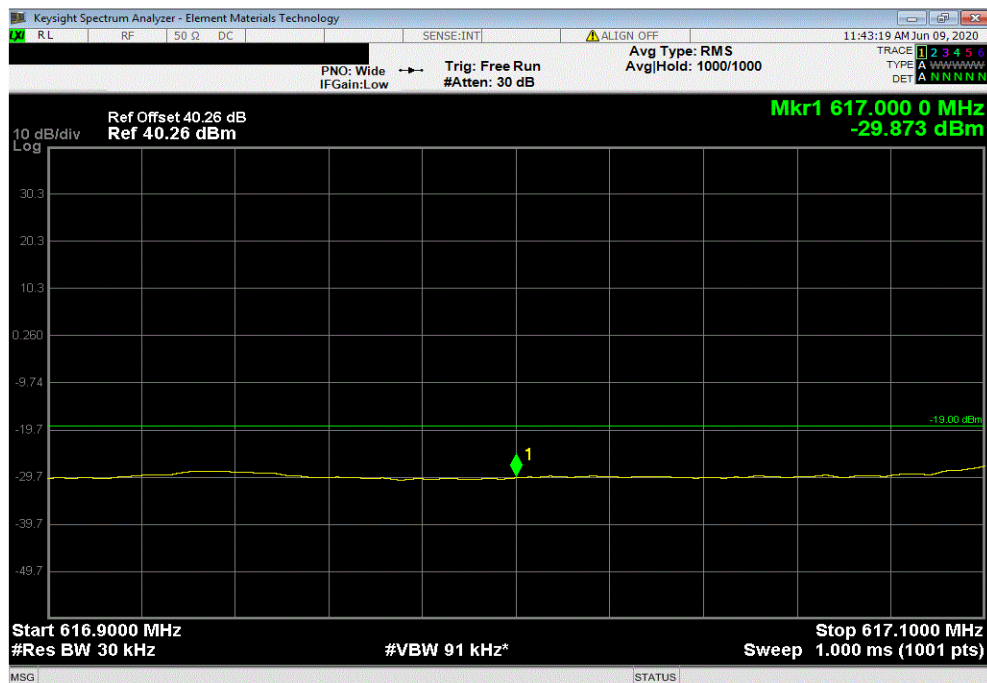


TMTx 2020.06.08.0 BETA XMR 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 627 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	616.9	-24.22	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 627 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	617	-29.87	-19	Pass		

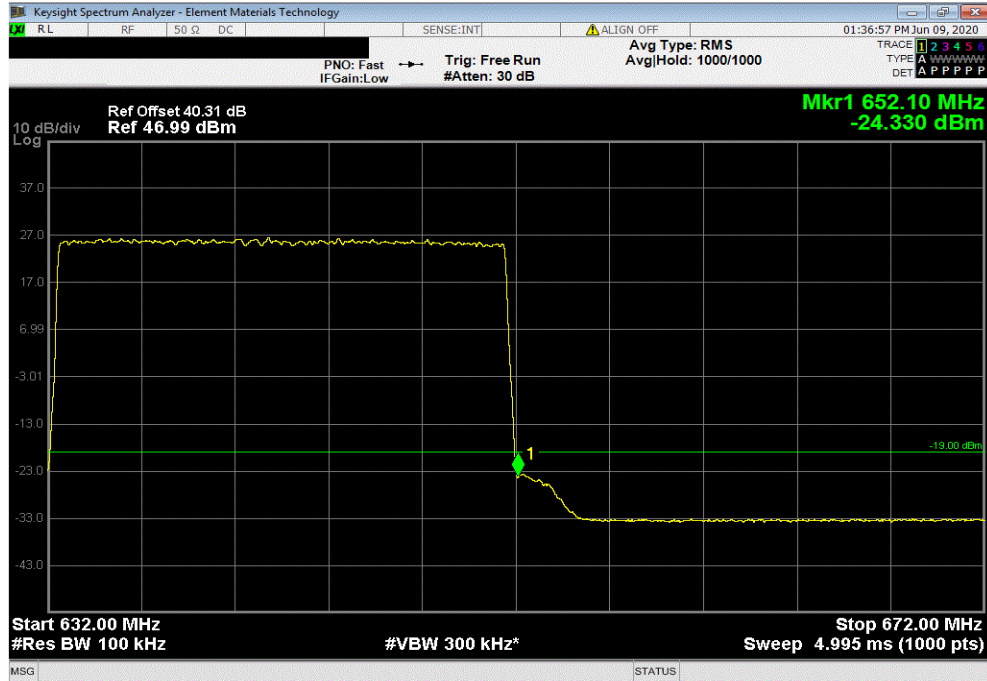


BAND EDGE COMPLIANCE



TMTx 2020.06.08.0 BETA XMR 2020.03.25.0

Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 642 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652.1	-24.33	-19	Pass		



Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 642 MHz						
	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
	652	-29.66	-19	Pass		

