

FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND



XMIT 2020.12.30.0

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
Meter - Multimeter	Tektronix	DMM912	MMH	2019-02-15	2022-02-15
Thermometer	Omegaette	HH311	DTY	2021-02-04	2024-02-04
Chamber - Temperature/Humidity	Cincinnati Sub Zero (CSZ)	ZPH-8-1-1-H/AC	TBI	NCR	NCR
Power Supply - DC	Dr. Meter	PS-305DM	TZZ	NCR	NCR
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

TEST DESCRIPTION

The spectrum analyzer is equipped with a precision frequency reference that exceeds the stability requirement of the EUT.

Measurements were made at the edges of the main transmit bands as called out on the data sheets. Testing was done with an absence of modulation in a CW mode of operation.

The primary supply voltage was varied from 85 % to 115% of the nominal voltage Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (-30 ° to +50° C) and at 10°C intervals.

Where a ppm limit applies: $\text{ppm} = (\text{Measured Frequency} / \text{Measured Nominal Frequency} - 1) * 1,000,000$

Per the requirements of FCC 15.407:

"Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual."

No specific limits are provided in either FCC 15.407, the product specific rule part, or FCC 2.1055, the equipment authorization procedure for testing frequency stability. While there are no limits called out, any results less than 100ppm will still allow the radio to be operating within the band.

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TbTx 2021.03.19.1 XME 2020.12.30.0

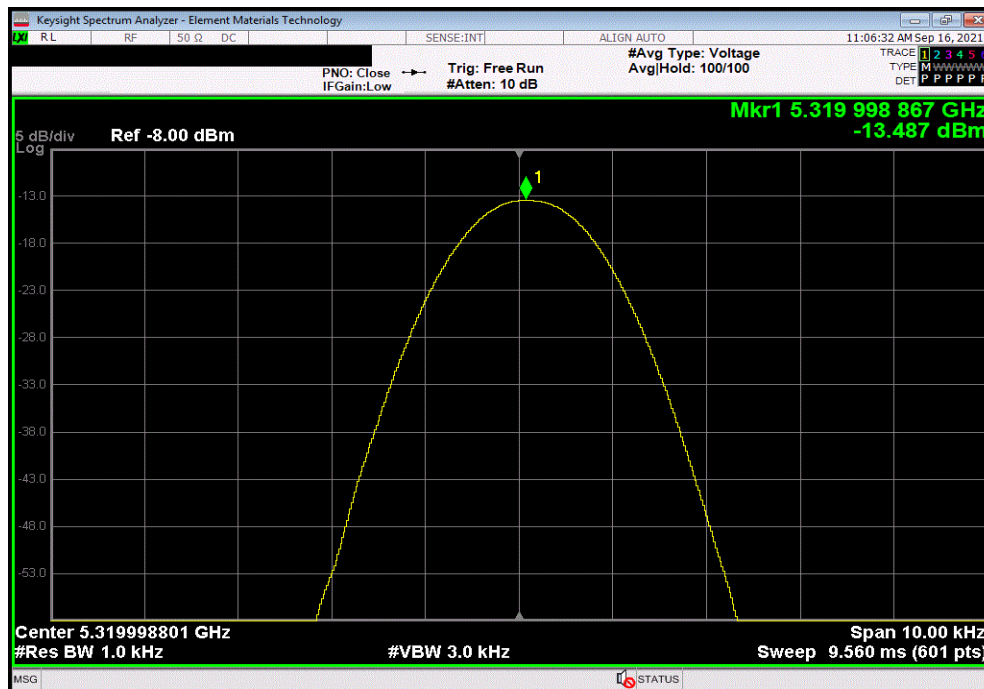
EUT: 43.0536.00		Work Order: A-DE0170				
Serial Number: SN001 00001		Date: 16-Sep-21				
Customer: A-dec, Inc.		Temperature: 21.9 °C				
Attendees: Ben Meadows		Humidity: 37.4% RH				
Project: None		Barometric Pres.: 1023 mbar				
Tested by: Jeff Alcoke		Power: 3.3 VDC				
		Job Site: EV06				
TEST SPECIFICATIONS		Test Method				
FCC 15.407:2021		ANSI C63.10:2013				
COMMENTS						
None						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	3	Signature 				
		Measured Value (MHz)	Measured Nominal Value (MHz)	Error (ppm)	Limit (ppm)	Results
5250 MHz - 5350 MHz - High Channel, 5320 MHz						
	Voltage: 115%, 3.795 VDC	5319.998867	5319.994434	0.8	100	Pass
	Nominal Voltage: 100%, 3.3 VDC	5319.994434	5319.994434	0.0	100	Pass
	Voltage: 85%, 2.805 VDC	5319.994434	5319.994434	0.0	100	Pass
	Temperature: +50°	5320.001249	5319.994434	1.3	100	Pass
	Temperature: +40°	5319.994183	5319.994434	0.0	100	Pass
	Temperature: +30°	5319.997233	5319.994434	0.5	100	Pass
	Temperature: +20°	5320.007016	5319.994434	2.4	100	Pass
	Temperature: +10°	5320.017266	5319.994434	4.3	100	Pass
	Temperature: 0°	5320.030667	5319.994434	6.8	100	Pass
	Temperature: -10°	5320.037433	5319.994434	8.1	100	Pass
	Temperature: -20°	5320.037550	5319.994434	8.1	100	Pass
	Temperature: -30°	5320.028566	5319.994434	6.4	100	Pass
5470 MHz - 5725 MHz - Low Channel, 5500 MHz						
	Voltage: 115%, 3.795 VDC	5499.998899	5499.994283	0.8	100	Pass
	Nominal Voltage: 100%, 3.3 VDC	5499.994283	5499.994283	0.0	100	Pass
	Voltage: 85%, 2.805 VDC	5499.994283	5499.994283	0.0	100	Pass
	Temperature: +50°	5500.004383	5499.994283	1.8	100	Pass
	Temperature: +40°	5499.994266	5499.994283	0.0	100	Pass
	Temperature: +30°	5499.996866	5499.994283	0.5	100	Pass
	Temperature: +20°	5500.005483	5499.994283	2.0	100	Pass
	Temperature: +10°	5500.015983	5499.994283	3.9	100	Pass
	Temperature: 0°	5500.030417	5499.994283	6.6	100	Pass
	Temperature: -10°	5500.038484	5499.994283	8.0	100	Pass
	Temperature: -20°	5500.039000	5499.994283	8.1	100	Pass
	Temperature: -30°	5500.031699	5499.994283	6.8	100	Pass
5470 MHz - 5725 MHz - High Channel, 5700 MHz						
	Voltage: 115%, 3.795 VDC	5699.999500	5699.995133	0.8	100	Pass
	Nominal Voltage: 100%, 3.3 VDC	5699.995133	5699.995133	0.0	100	Pass
	Voltage: 85%, 2.805 VDC	5699.994116	5699.995133	0.2	100	Pass
	Temperature: +50°	5700.004834	5699.995133	1.7	100	Pass
	Temperature: +40°	5699.994367	5699.995133	0.1	100	Pass
	Temperature: +30°	5699.995950	5699.995133	0.1	100	Pass
	Temperature: +20°	5700.005850	5699.995133	1.9	100	Pass
	Temperature: +10°	5700.016483	5699.995133	3.7	100	Pass
	Temperature: 0°	5700.030650	5699.995133	6.2	100	Pass
	Temperature: -10°	5700.038634	5699.995133	7.6	100	Pass
	Temperature: -20°	5700.040550	5699.995133	8.0	100	Pass
	Temperature: -30°	5700.031266	5699.995133	6.3	100	Pass
5725 MHz - 5850 MHz - High Channel, 5825 MHz						
	Voltage: 115%, 3.795 VDC	5825.000416	5824.995391	0.9	100	Pass
	Nominal Voltage: 100%, 3.3 VDC	5824.995391	5824.995391	0.0	100	Pass
	Voltage: 85%, 2.805 VDC	5824.994200	5824.995391	0.2	100	Pass
	Temperature: +50°	5825.006431	5824.995391	1.9	100	Pass
	Temperature: +40°	5824.993759	5824.995391	0.3	100	Pass
	Temperature: +30°	5824.995401	5824.995391	0.0	100	Pass
	Temperature: +20°	5825.005396	5824.995391	1.7	100	Pass
	Temperature: +10°	5825.016282	5824.995391	3.6	100	Pass
	Temperature: 0°	5825.030501	5824.995391	6.0	100	Pass
	Temperature: -10°	5825.040084	5824.995391	7.7	100	Pass
	Temperature: -20°	5825.041932	5824.995391	8.0	100	Pass
	Temperature: -30°	5825.035040	5824.995391	6.8	100	Pass

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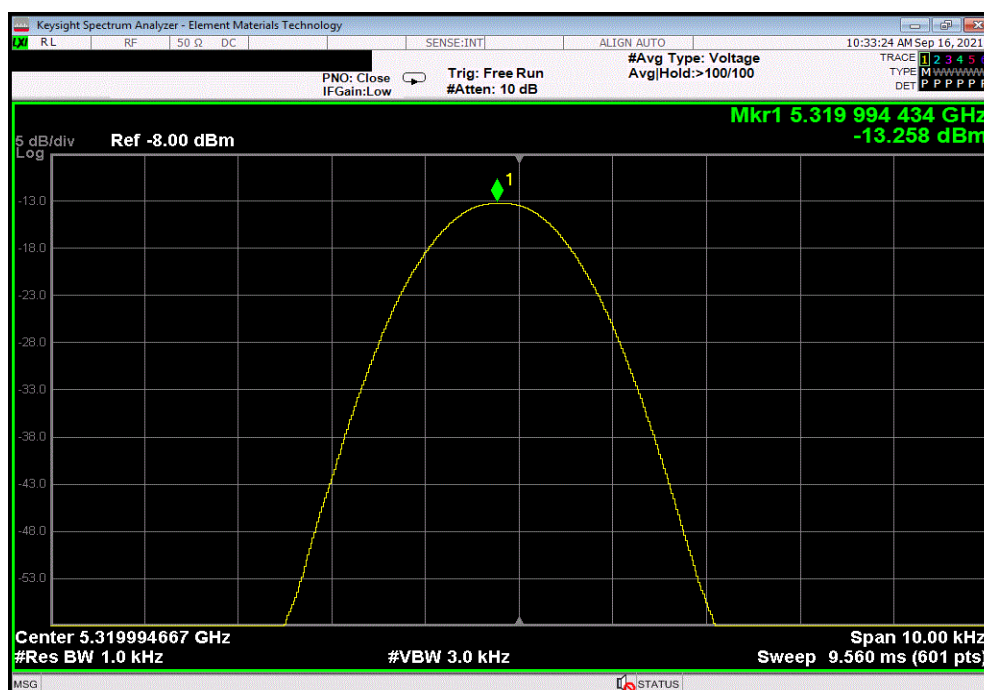


TbTtX 2021.03.19.1 XMR 2020.12.30.0

5250 MHz - 5350 MHz - High Channel, 5320 MHz, Voltage: 115%, 3.795 VDC					
Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
5319.998867	5319.994434	5319.994434	0.8	100	Pass



5250 MHz - 5350 MHz - High Channel, 5320 MHz, Nominal Voltage: 100%, 3.3 VDC					
Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
5319.994434	5319.994434	5319.994434	0.0	100	Pass

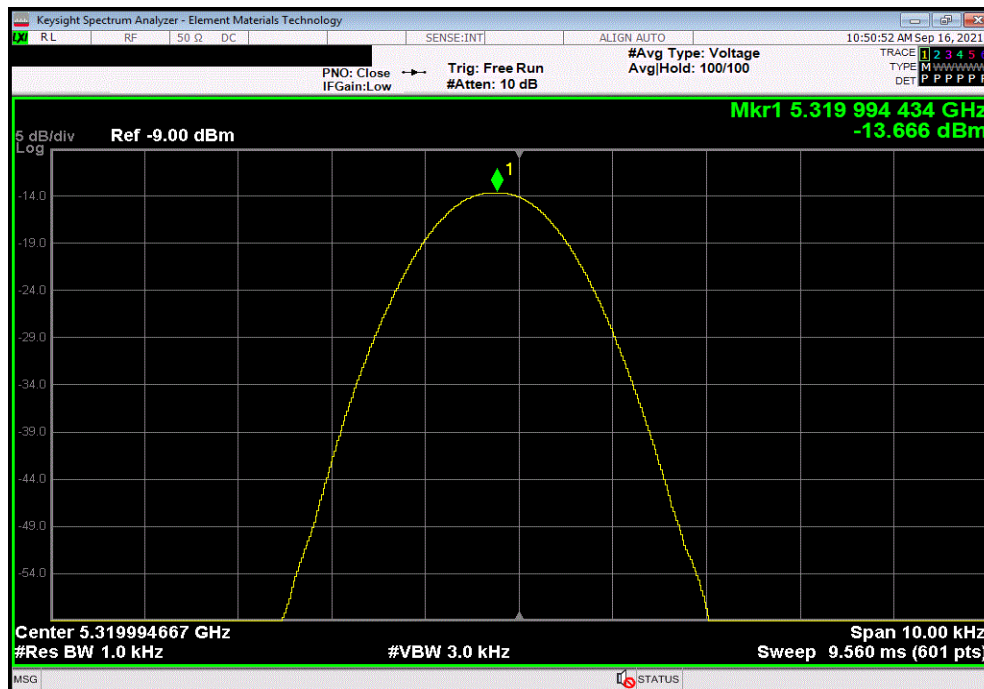


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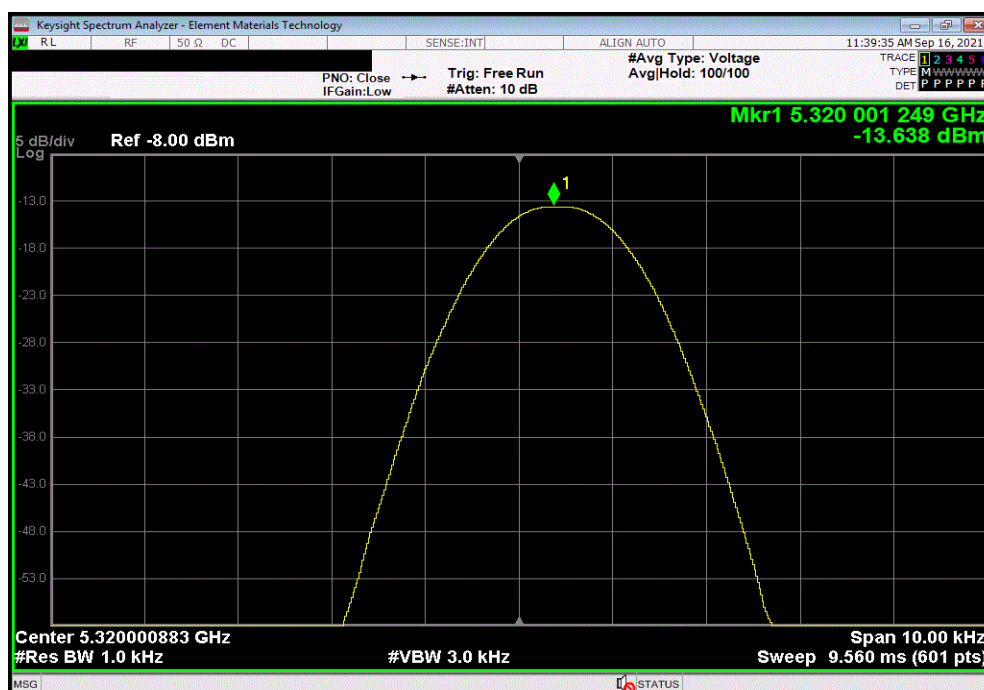


TbTtx 2021.03.19.1 XMt 2020.12.30.0

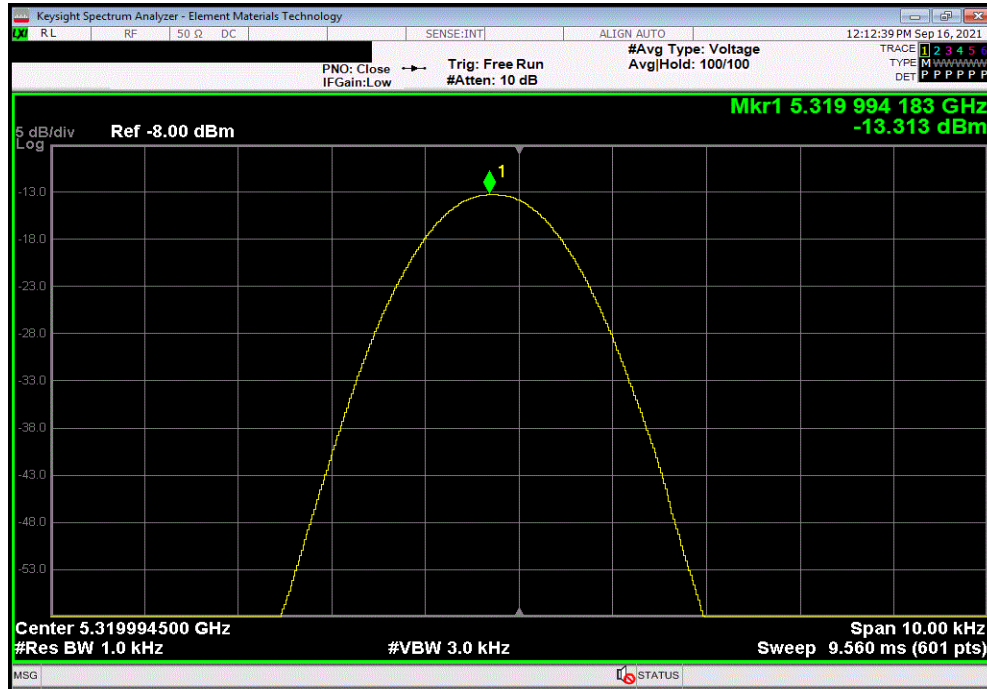
5250 MHz - 5350 MHz - High Channel, 5320 MHz, Voltage: 85%, 2.805 VDC					
Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
5319.994434	5319.994434	5319.994434	0.0	100	Pass



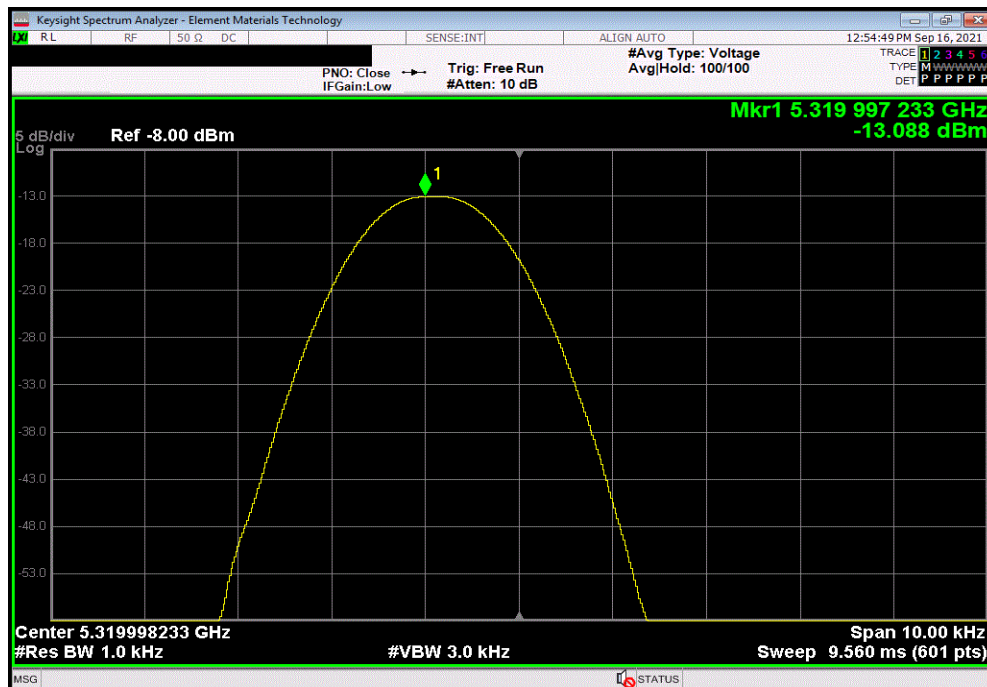
5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: +50°					
Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
5320.001249	5319.994434	5319.994434	1.3	100	Pass



5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: +40°						
		Measured	Measured Nomin	Error	Limit	Results
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	
		5319.994183	5319.994434	0.0	100	Pass



5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: +30°						
		Measured	Measured Nomin	Error	Limit	Results
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	
		5319.997233	5319.994434	0.5	100	Pass

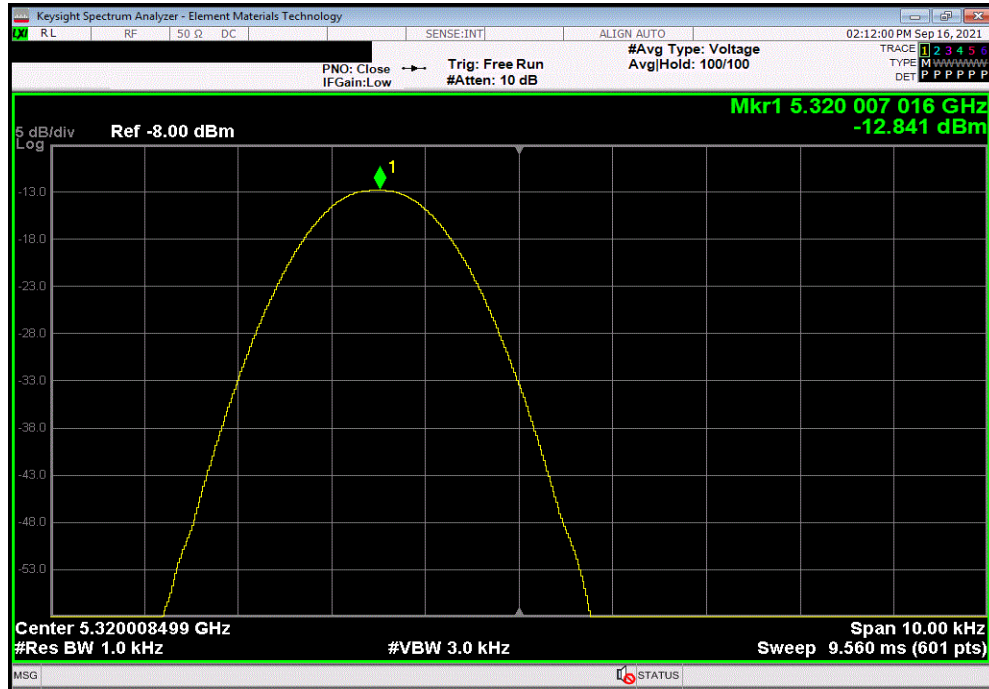


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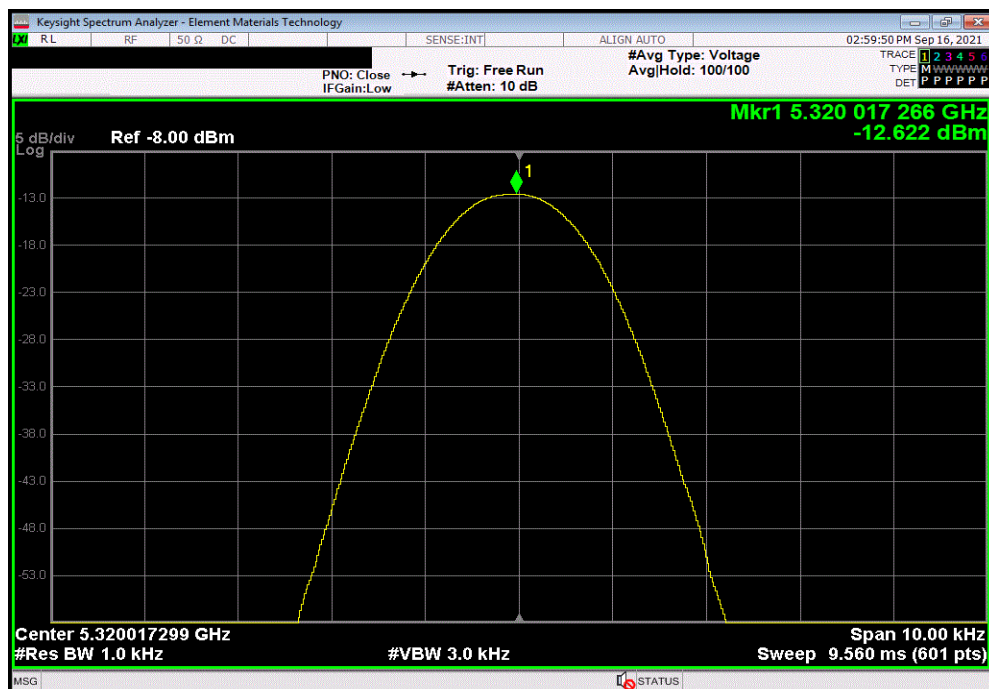


TbTtx 2021.03.19.1 XMt 2020.12.30.0

5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: +20°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5320.007016	5319.994434	2.4	100	Pass	



5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: +10°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5320.017266	5319.994434	4.3	100	Pass	

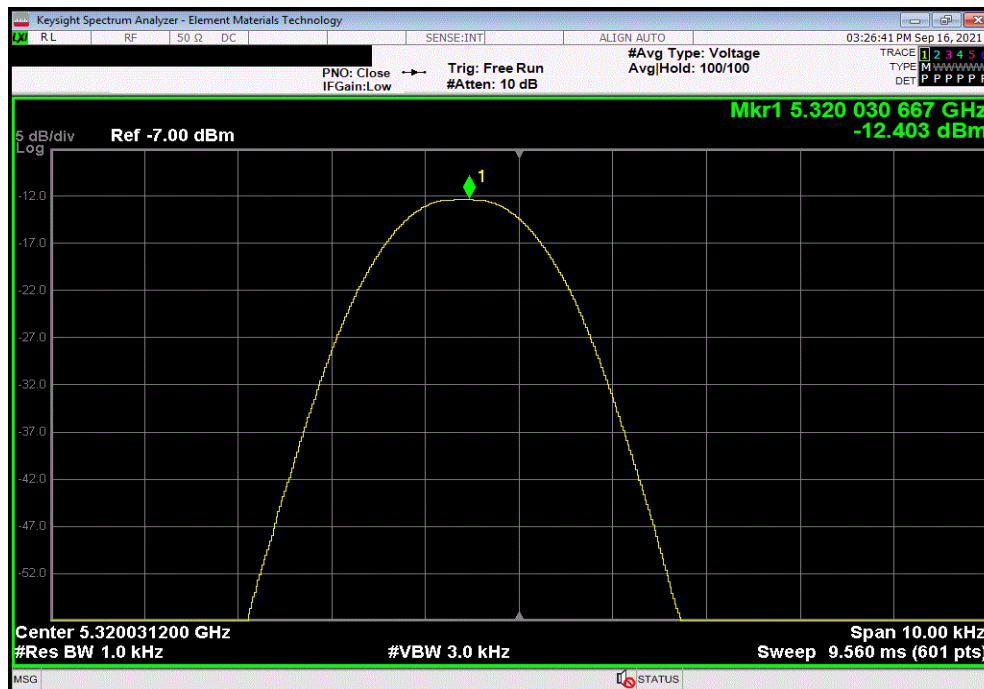


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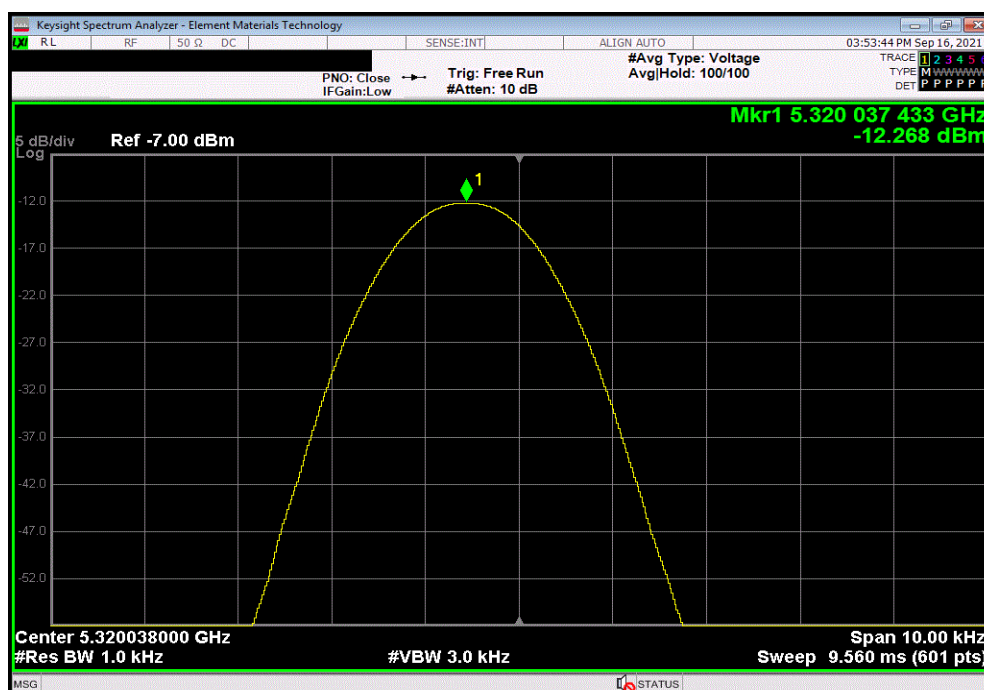


TbTx 2021.03.10.1 XMt 2020.12.30.0

5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: 0°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5320.030667	5319.994434	6.8	100	Pass	



5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: -10°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5320.037433	5319.994434	8.1	100	Pass	



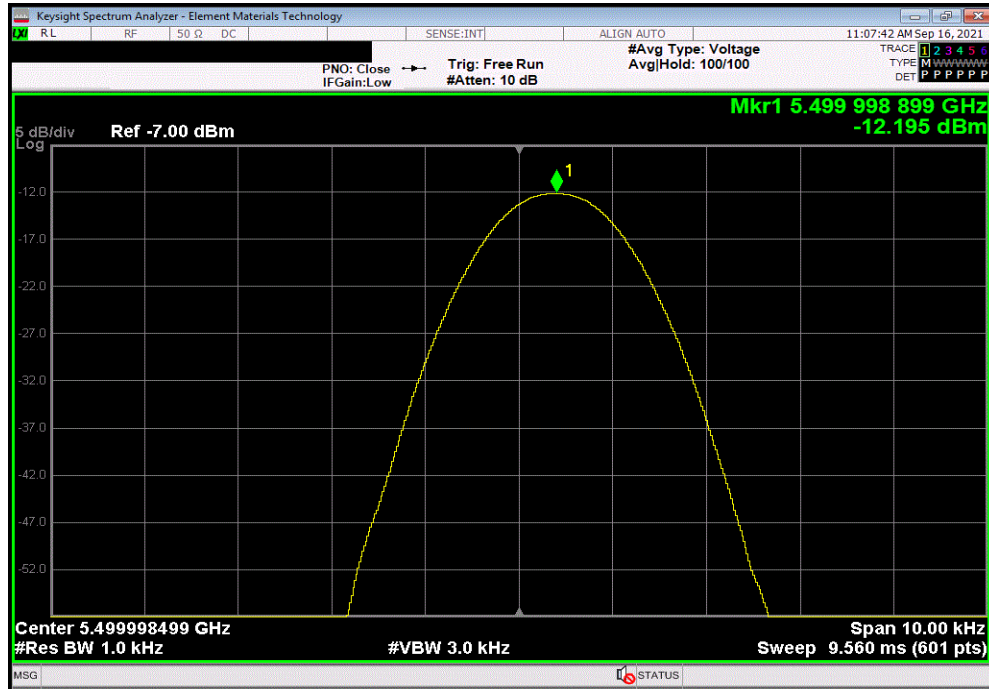
ThyTx 2021.02.19.1 YMit 2020.12.30.4

FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

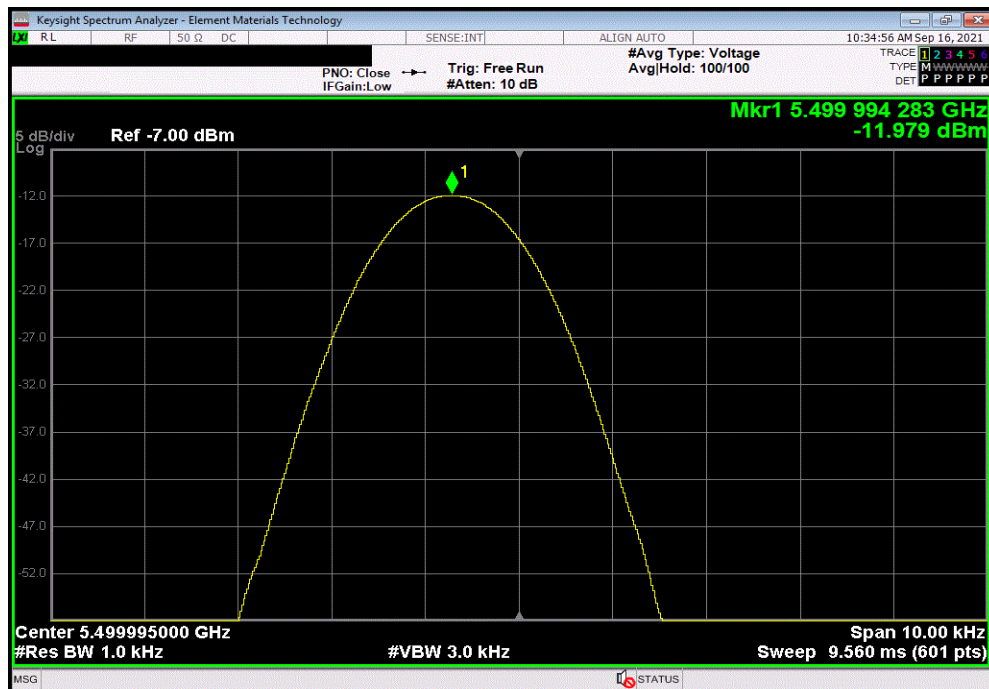


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Voltage: 115%, 3.795 VDC						
	Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5499.998899	5499.994283	0.8	100	Pass	



5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Nominal Voltage: 100%, 3.3 VDC						
	Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5499.994283	5499.994283	0.0	100	Pass	

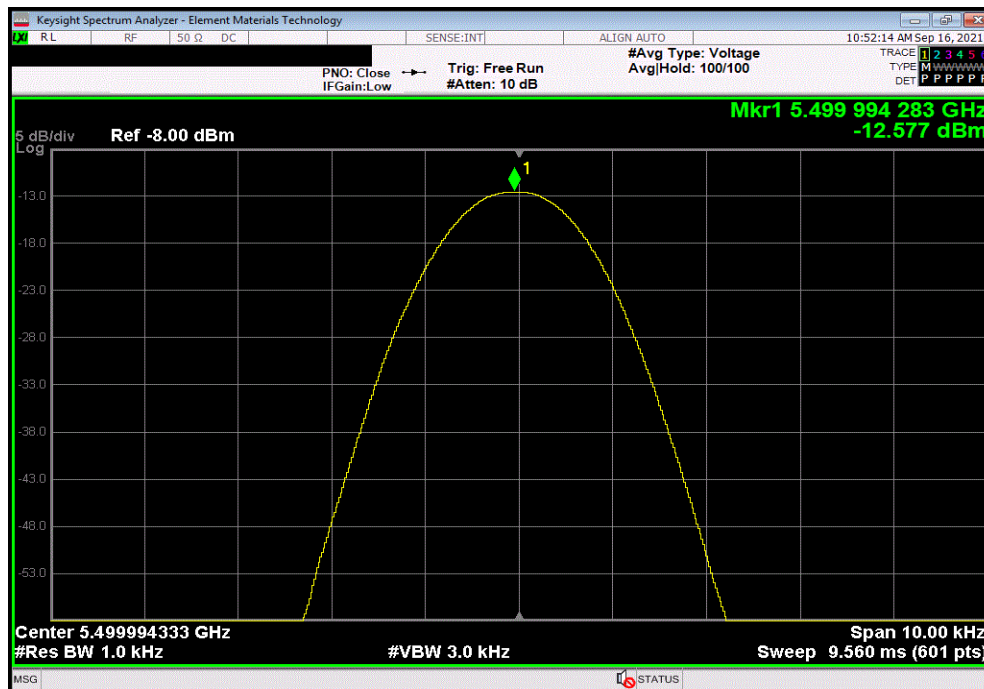


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

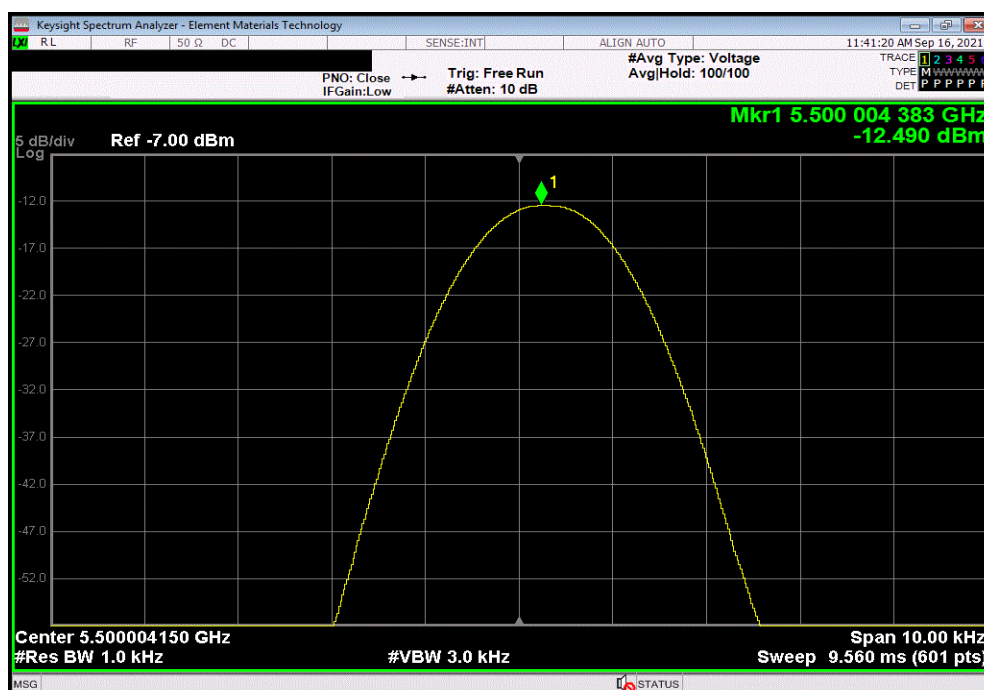


TbTx 2021.03.19.1 XMt 2020.12.30.0

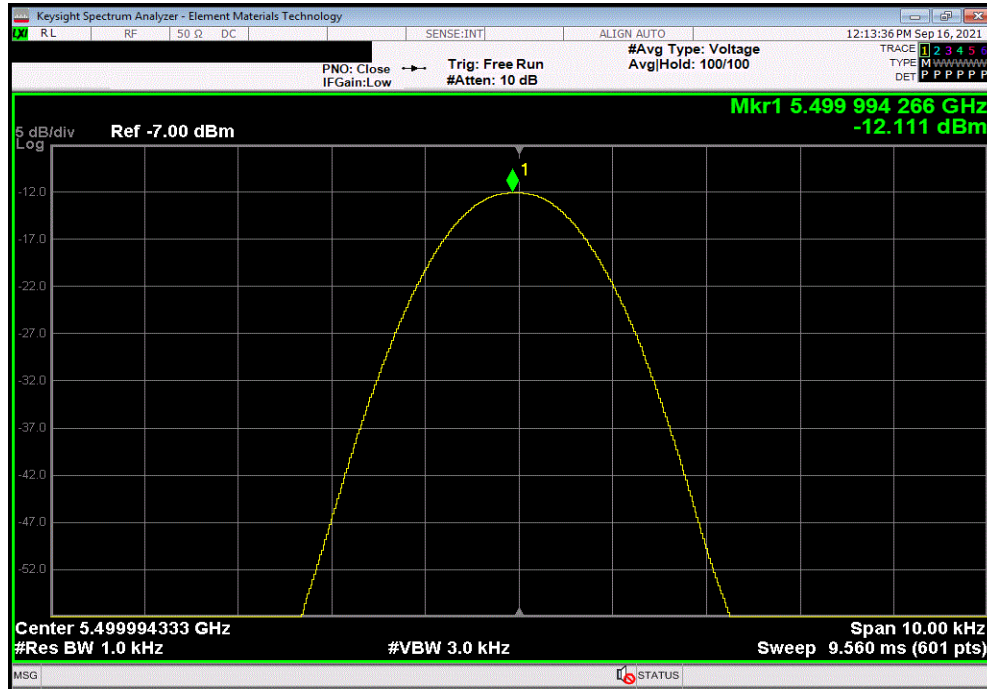
5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Voltage: 85%, 2.805 VDC					
Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
5499.994283	5499.994283	5499.994283	0.0	100	Pass



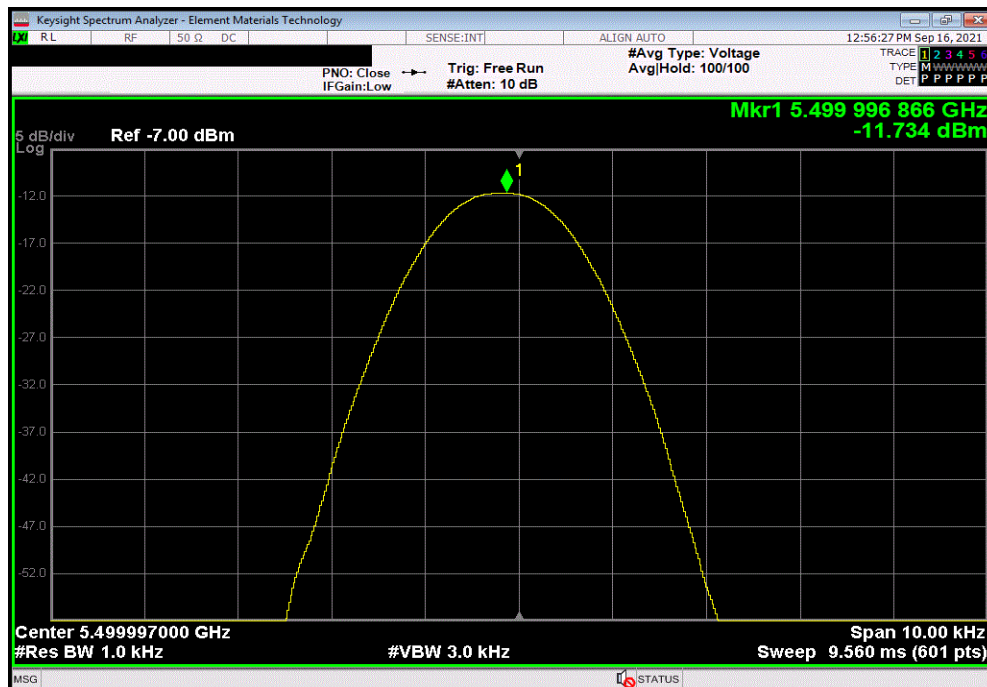
5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: +50°					
Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
5500.004383	5500.004383	5499.994283	1.8	100	Pass



5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: +40°						
Measured	Measured Nomin	Error	Limit	Results		
Value (MHz)	Value (MHz)	(ppm)	(ppm)			
5499.994266	5499.994283	0.0	100	Pass		



5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: +30°						
Measured		Measured Nomin	Error	Limit	Results	
Value (MHz)		Value (MHz)	(ppm)	(ppm)		
	5499.996866	5499.994283	0.5	100	Pass	

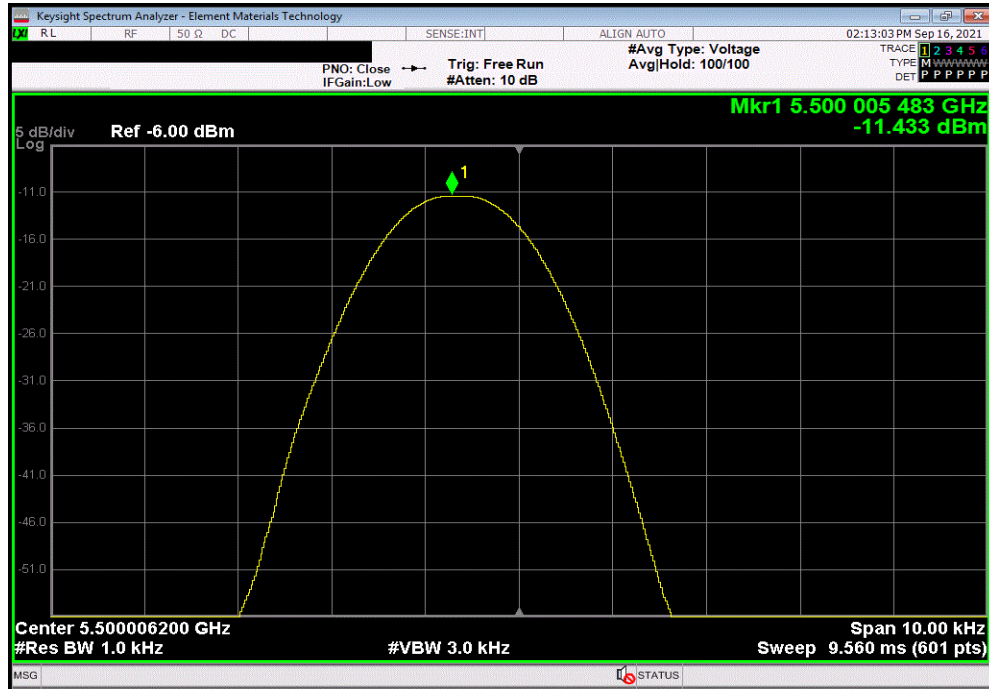


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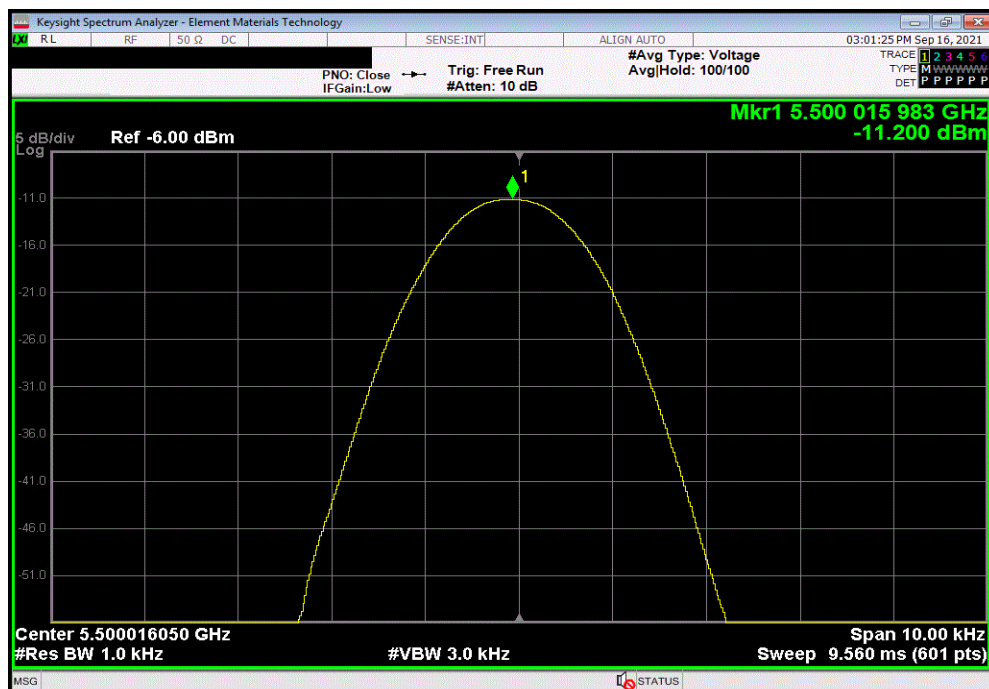


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: +20°					
	Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results
	5500.005483	5499.994283	2.0	100	Pass

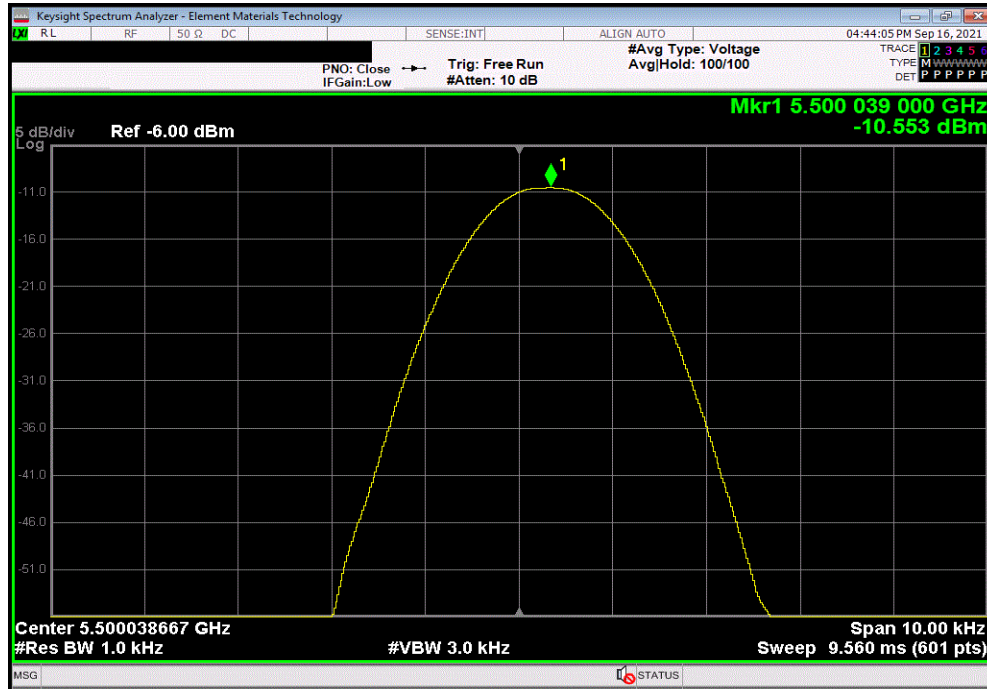


5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: +10°					
	Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results
	5500.015983	5499.994283	3.9	100	Pass

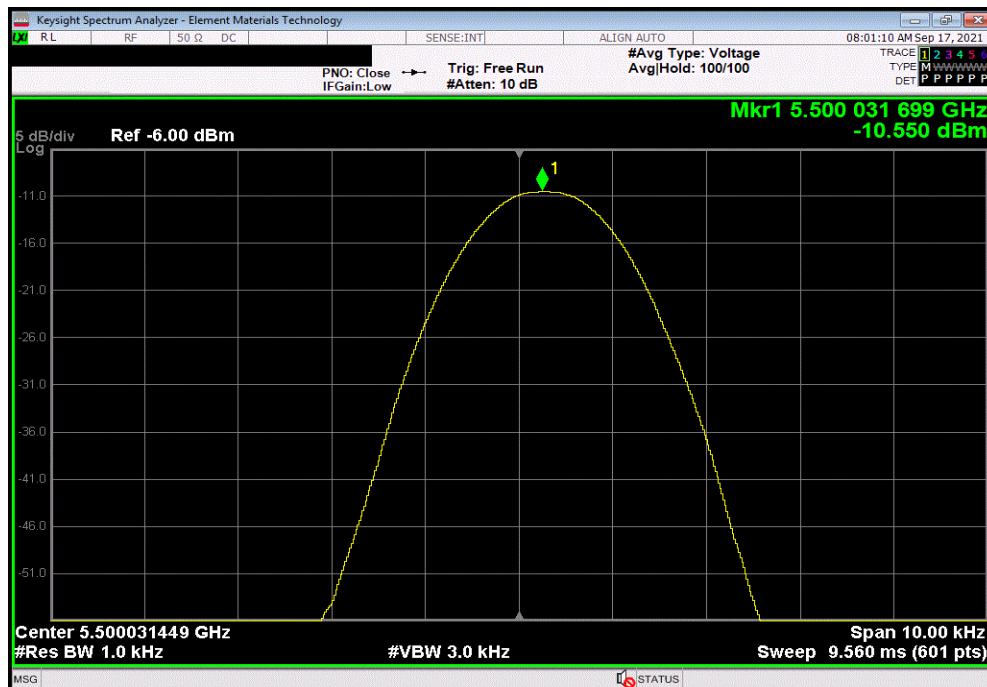


ThyTx 2021.02.19.1 YMit 2020.12.30.4

5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: -20°						
		Measured	Measured Nomin	Error	Limit	Results
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	
		5500.039	5499.994283	8.1	100	Pass



5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: -30°						
		Measured	Measured Nomin	Error	Limit	Results
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	
		5500.031699	5499.994283	6.8	100	Pass

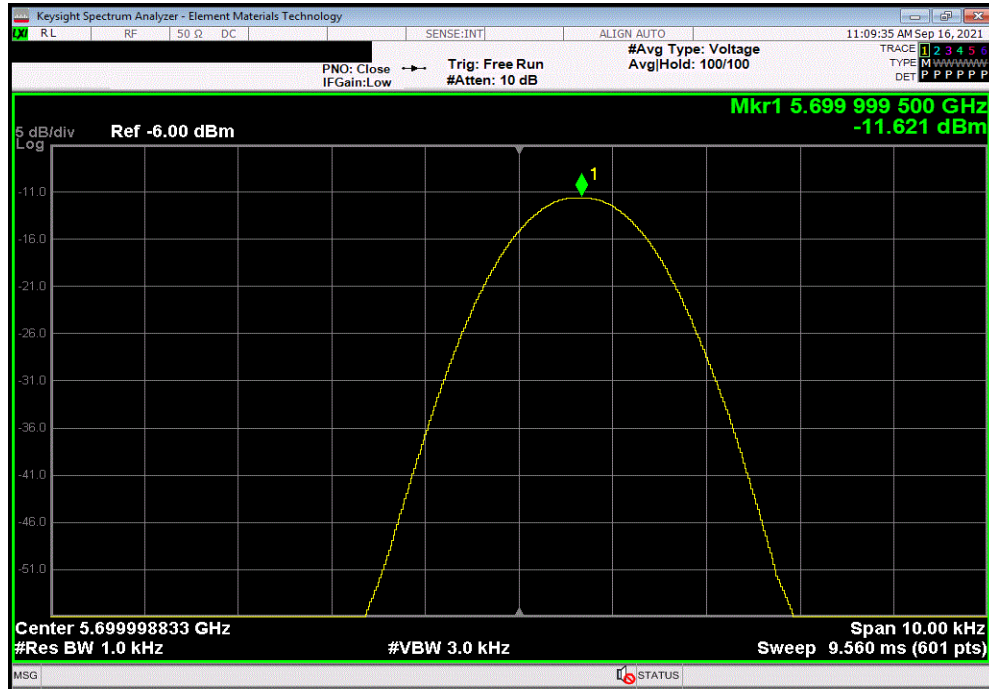


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

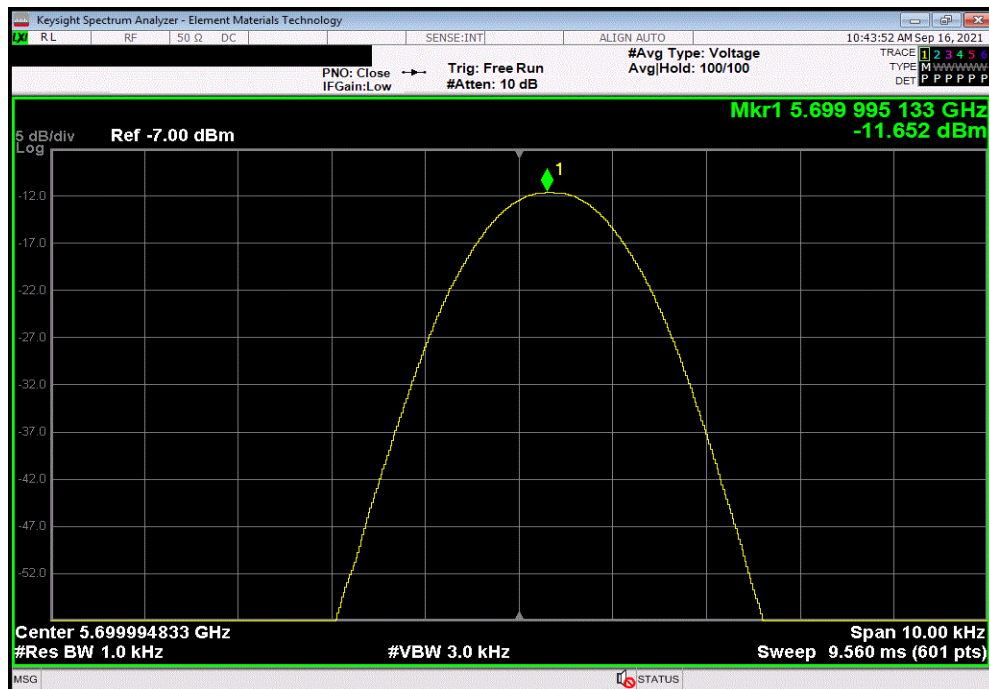


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Voltage: 115%, 3.795 VDC						
	Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5699.9995	5699.995133	0.8	100	Pass	



5470 MHz - 5725 MHz - High Channel, 5700 MHz, Nominal Voltage: 100%, 3.3 VDC						
	Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5699.995133	5699.995133	0.0	100	Pass	

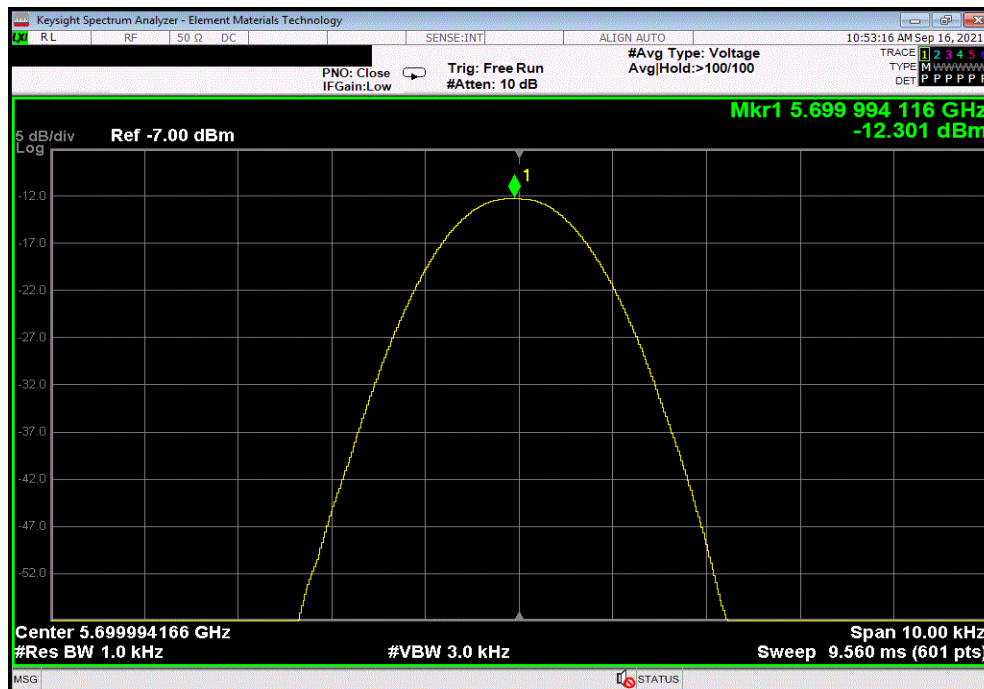


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

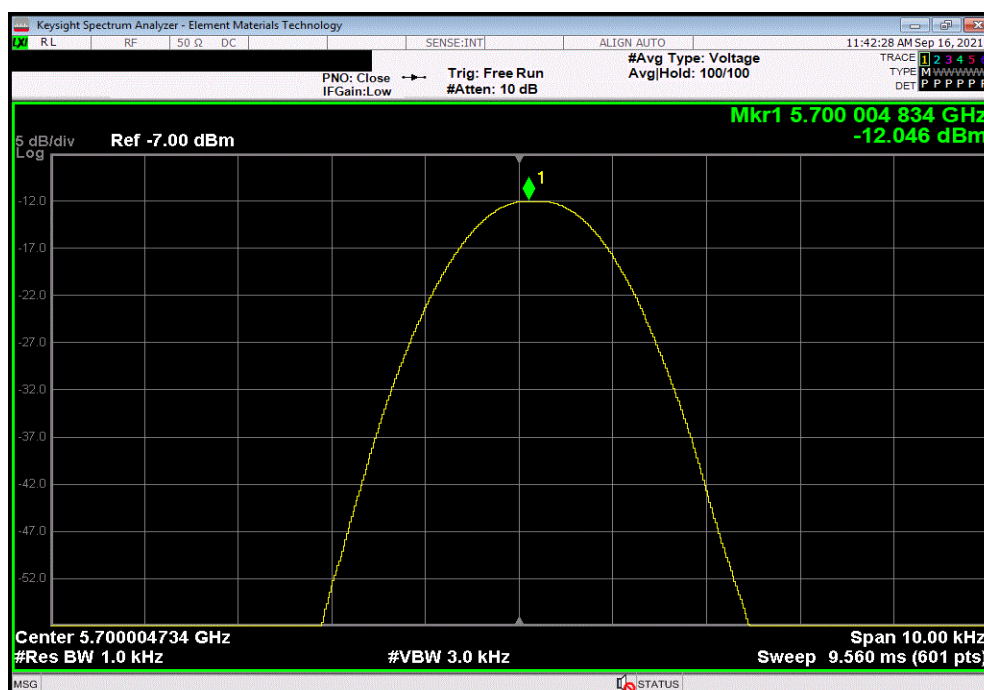


TbTtX 2021.03.19.1 XMt 2020.12.30.0

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Voltage: 85%, 2.805 VDC					
Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
5699.994116	5699.995133	5699.995133	0.2	100	Pass



5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +50°					
Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
5700.004834	5699.995133	5699.995133	1.7	100	Pass

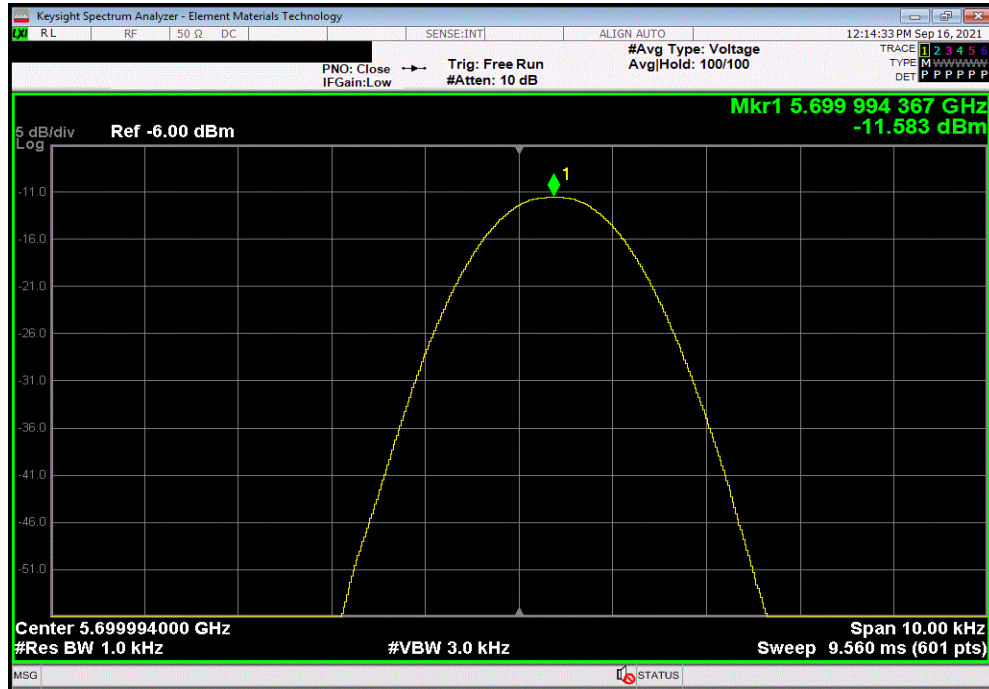


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

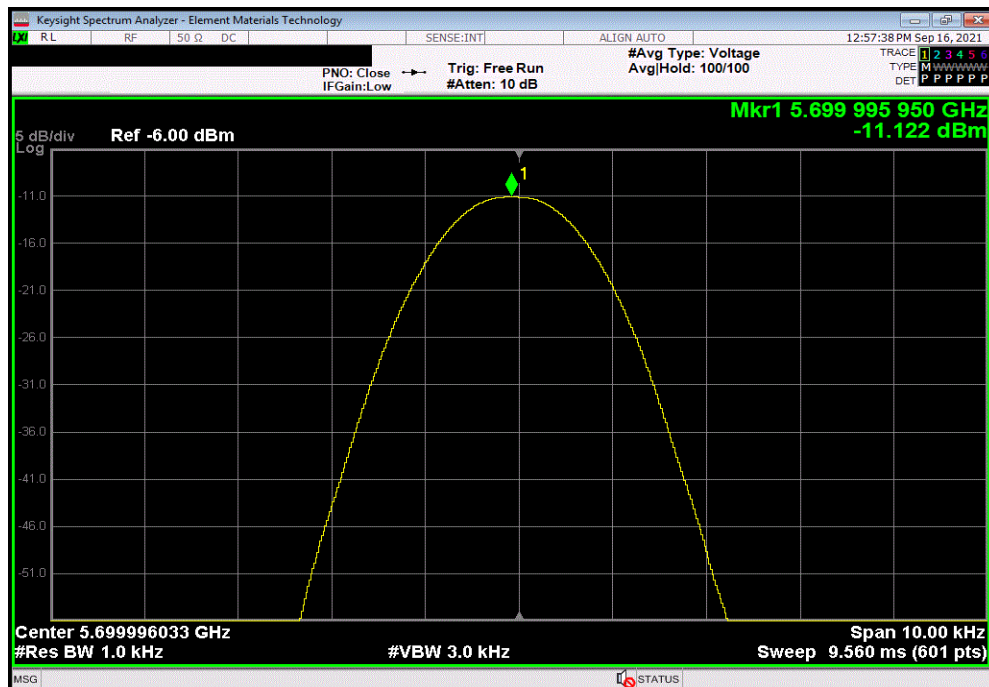


TbTtx 2021.03.19.1 XMt 2020.12.30.0

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +40°					
	Measured Value (MHz)	Measured Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
	5699.994367	5699.995133	0.1	100	Pass



5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +30°					
	Measured Value (MHz)	Measured Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
	5699.99595	5699.995133	0.1	100	Pass

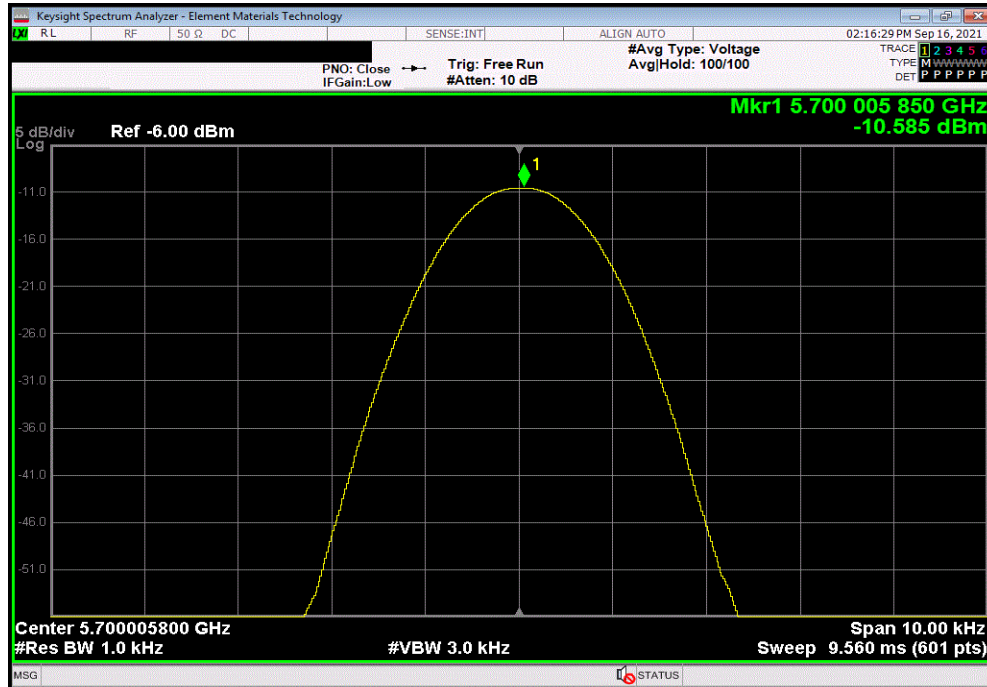


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

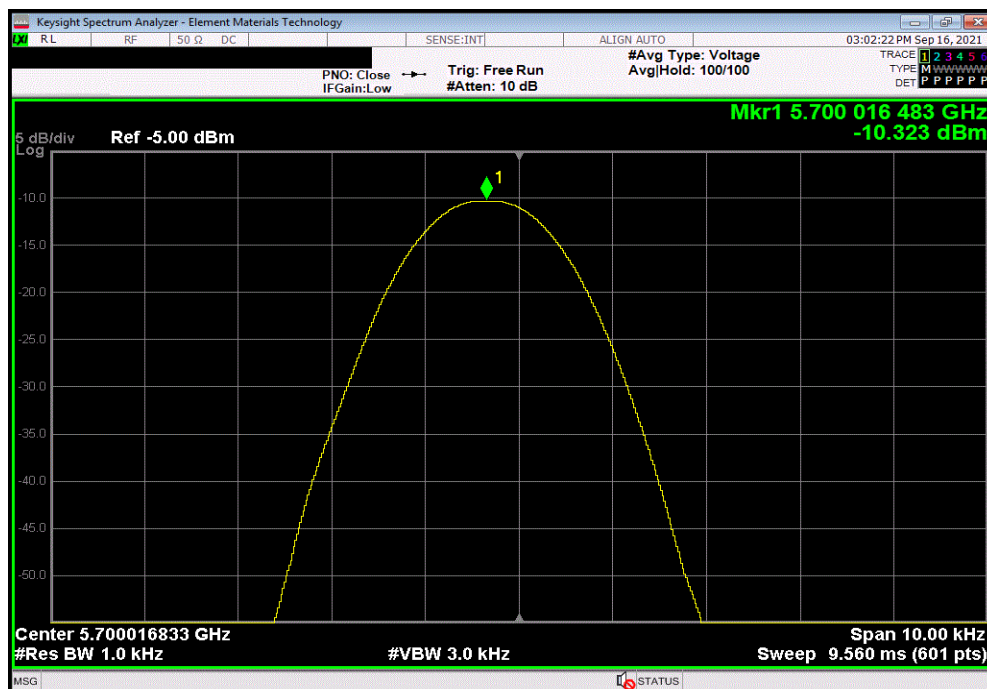


TbTtX 2021.03.19.1 XMt 2020.12.30.0

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +20°						
	Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5700.00585	5699.995133	1.9	100	Pass	



5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +10°						
	Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5700.016483	5699.995133	3.7	100	Pass	

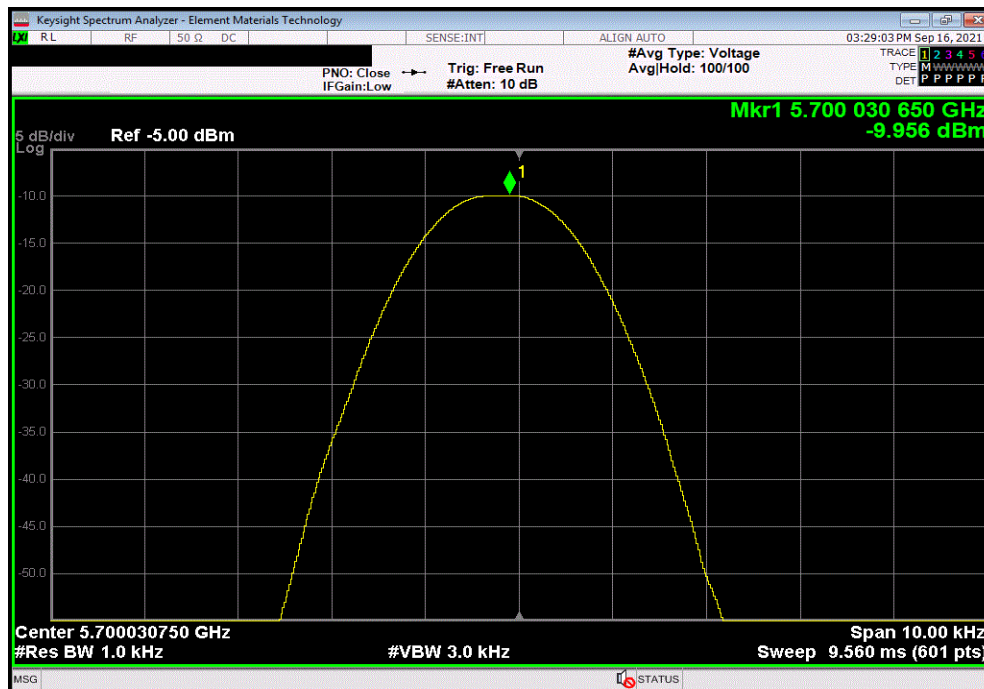


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

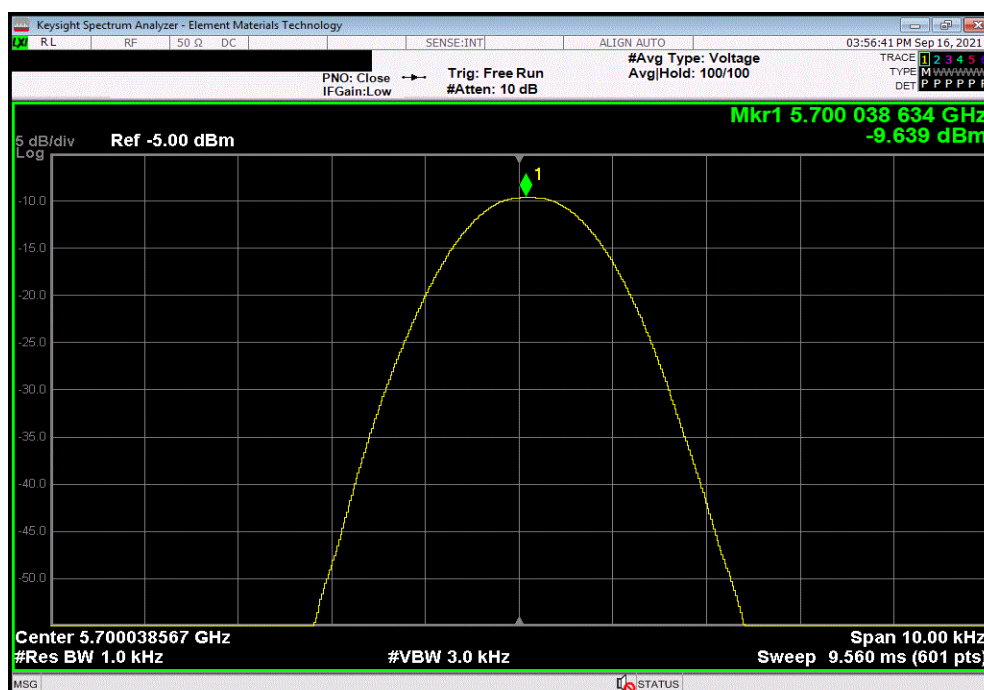


TbTtX 2021.03.19.1 XMt 2020.12.30.0

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: 0°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5700.03065	5699.995133	6.2	100	Pass	



5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: -10°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5700.038634	5699.995133	7.6	100	Pass	

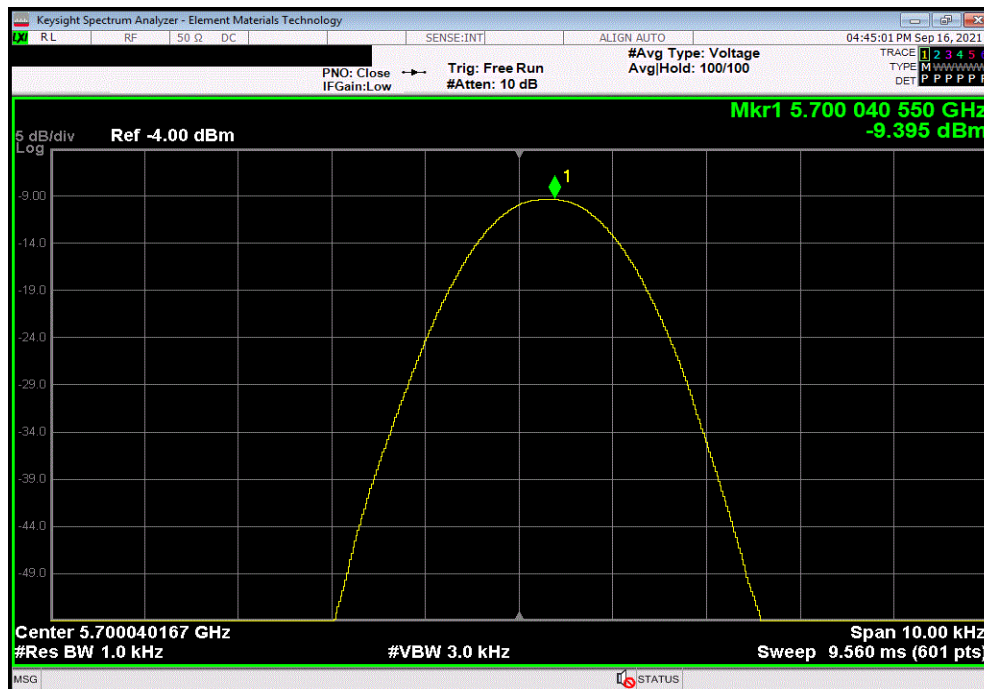


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

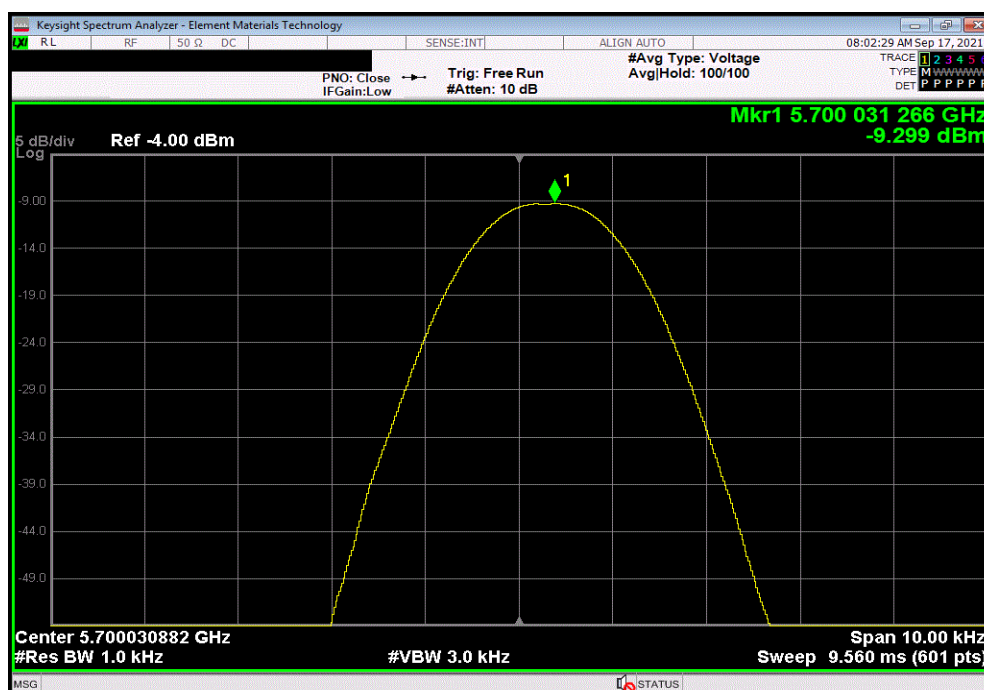


TbTtX 2021.03.19.1 XMt 2020.12.30.0

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: -20°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5700.04055	5699.995133	8.0	100	Pass	



5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: -30°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5700.031266	5699.995133	6.3	100	Pass	

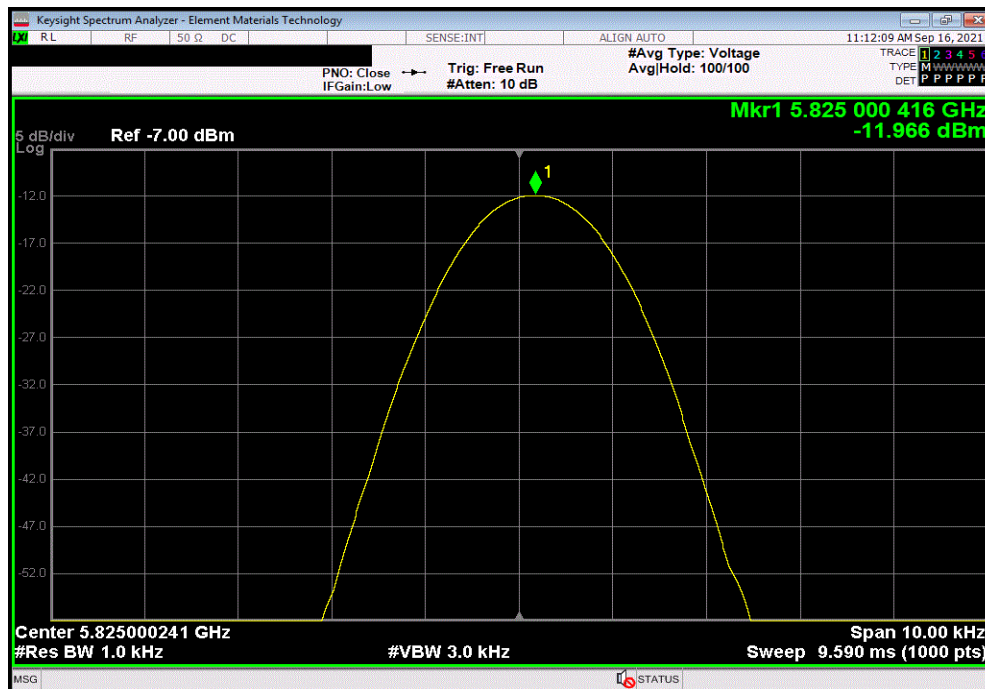


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

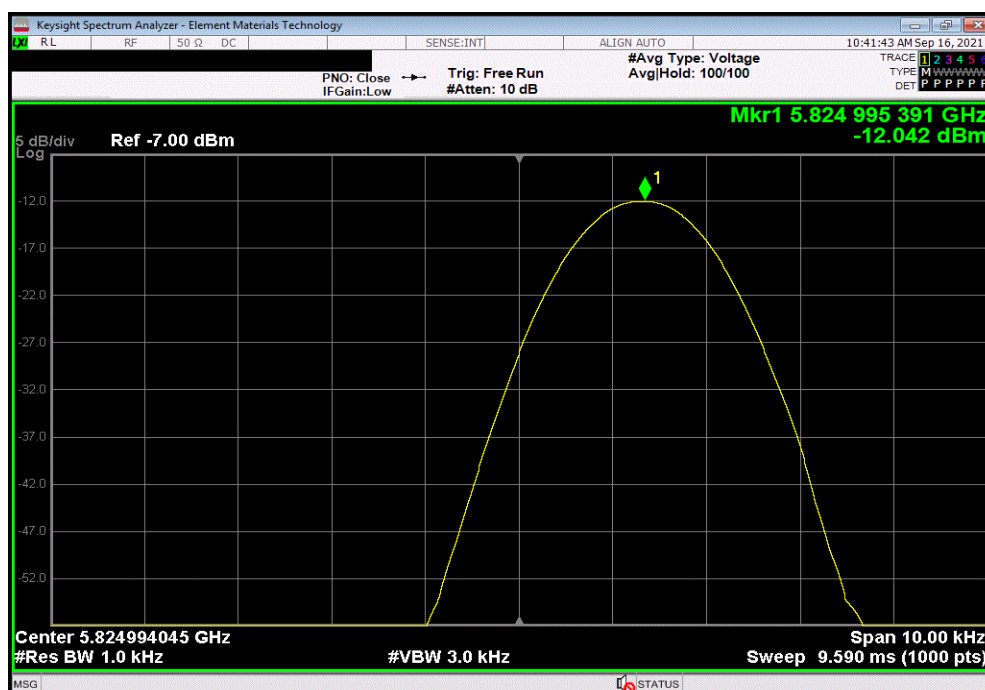


TbTtX 2021.03.19.1 XMt 2020.12.30.0

5725 MHz - 5850 MHz - High Channel, 5825 MHz, Voltage: 115%, 3.795 VDC					
Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
5825.000416	5824.995391	5824.995391	0.9	100	Pass



5725 MHz - 5850 MHz - High Channel, 5825 MHz, Nominal Voltage: 100%, 3.3 VDC					
Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
5824.995391	5824.995391	5824.995391	0.0	100	Pass

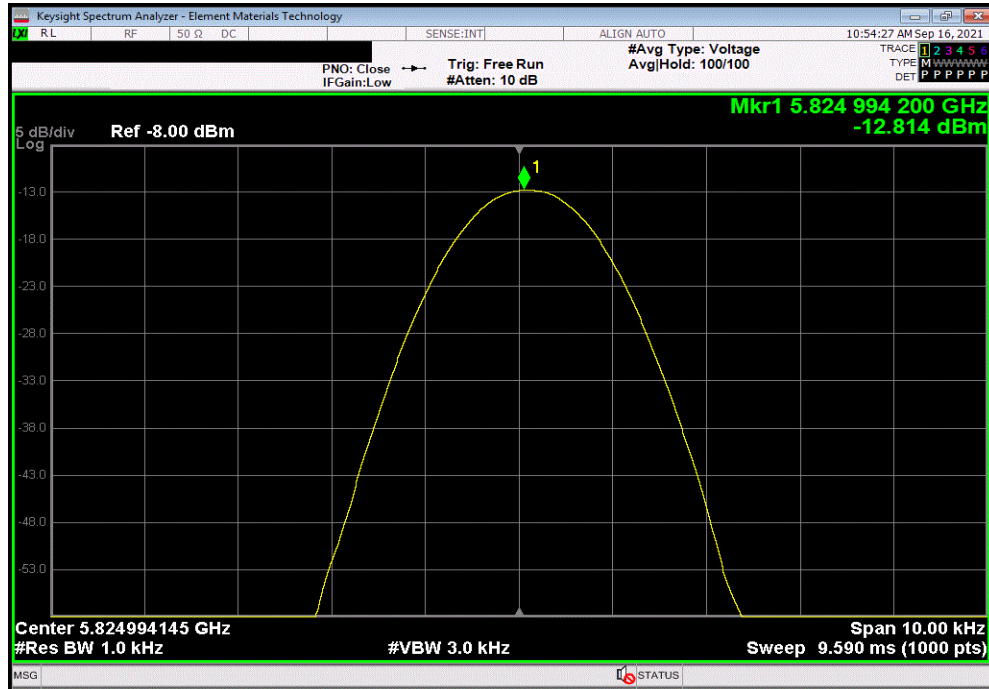


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

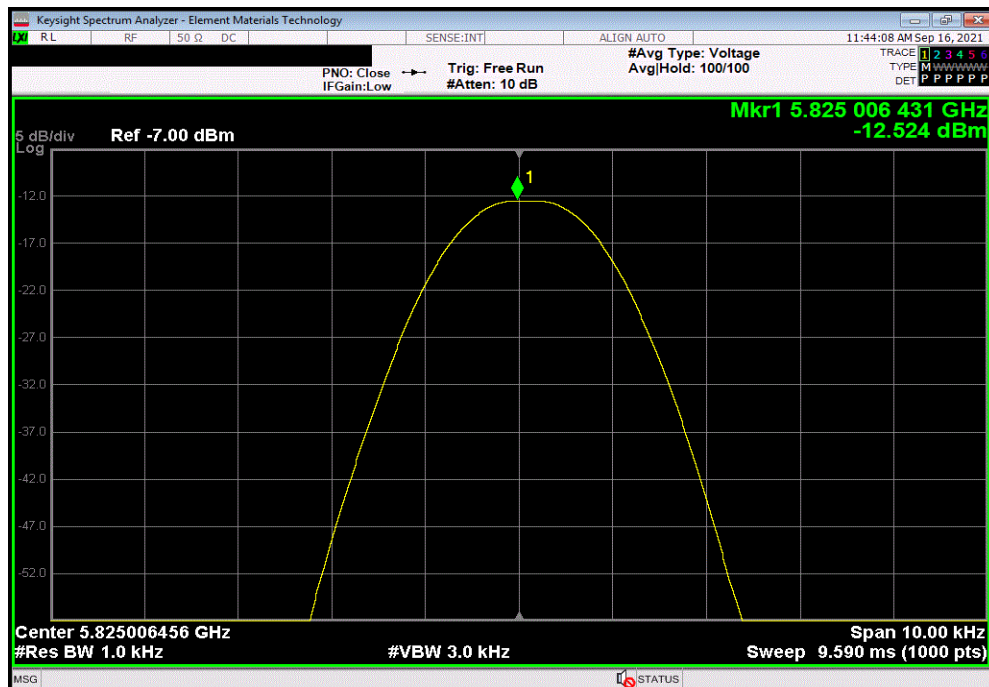


TbTx 2021.03.19.1 XM8 2020.12.30.0

5725 MHz - 5850 MHz - High Channel, 5825 MHz, Voltage: 85%, 2.805 VDC						
	Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
	5824.9942	5824.995391	5824.995391	0.2	100	Pass



5725 MHz - 5850 MHz - High Channel, 5825 MHz, Temperature: +50°						
	Measured Value (MHz)	Measured Value (MHz)	Nomin Value (MHz)	Error (ppm)	Limit (ppm)	Results
	5825.006431	5824.995391	5824.995391	1.9	100	Pass

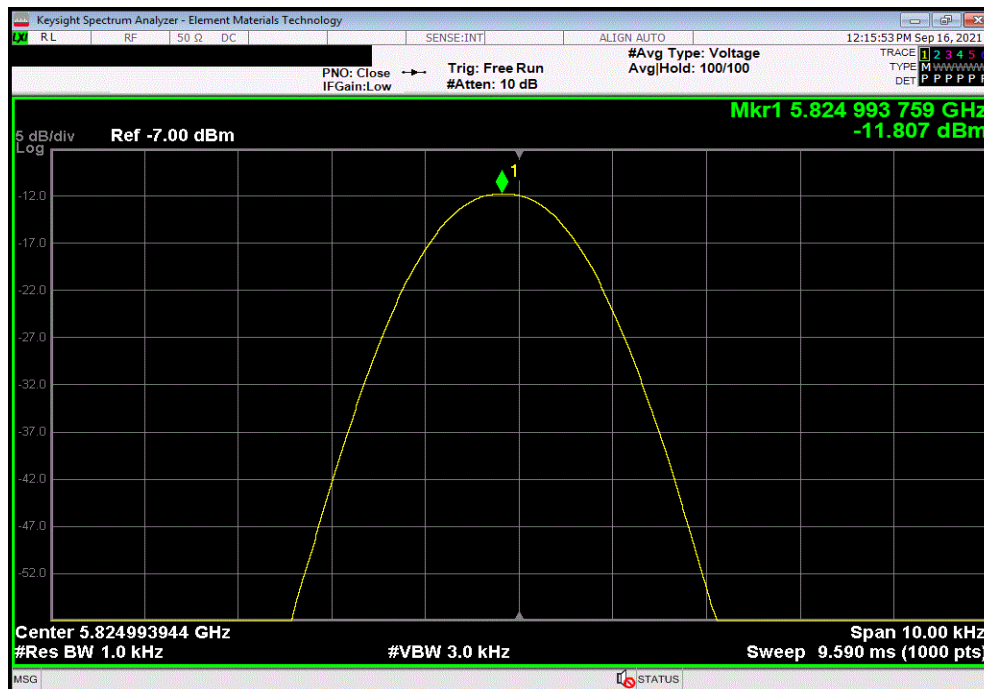


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

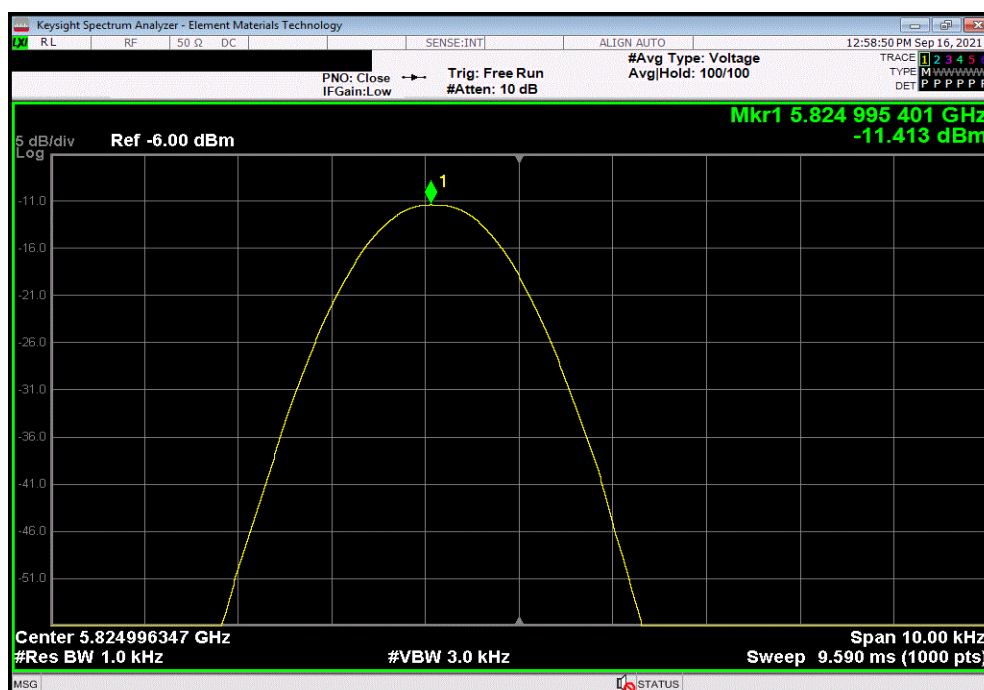


TbTtX 2021.03.19.1 XMt 2020.12.30.0

5725 MHz - 5850 MHz - High Channel, 5825 MHz, Temperature: +40°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5824.993759	5824.995391	0.3	100	Pass	



5725 MHz - 5850 MHz - High Channel, 5825 MHz, Temperature: +30°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5824.995401	5824.995391	0.0	100	Pass	

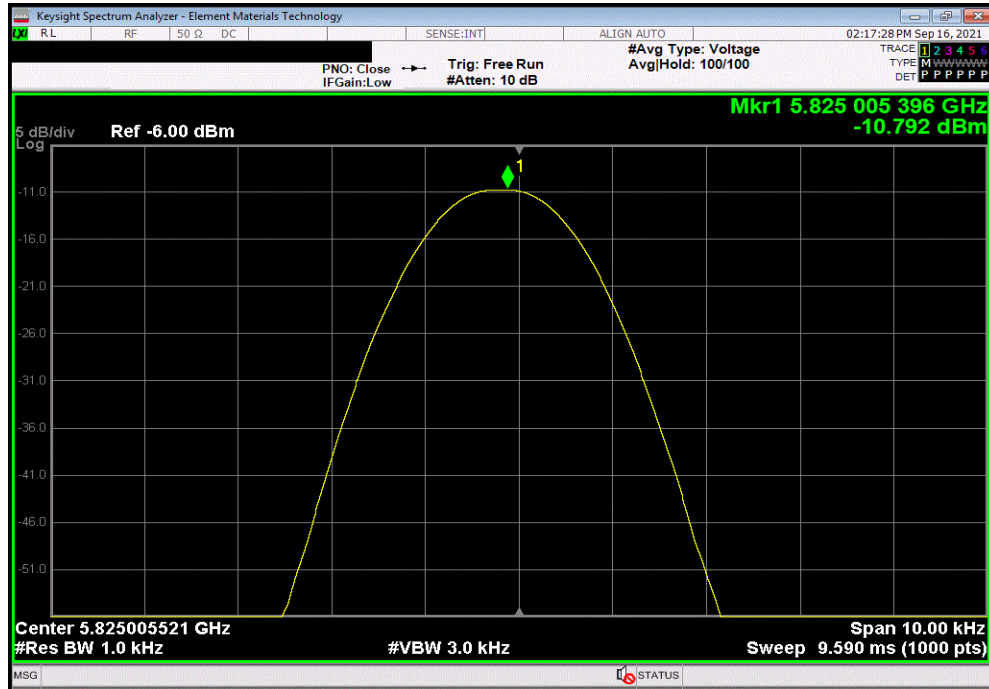


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

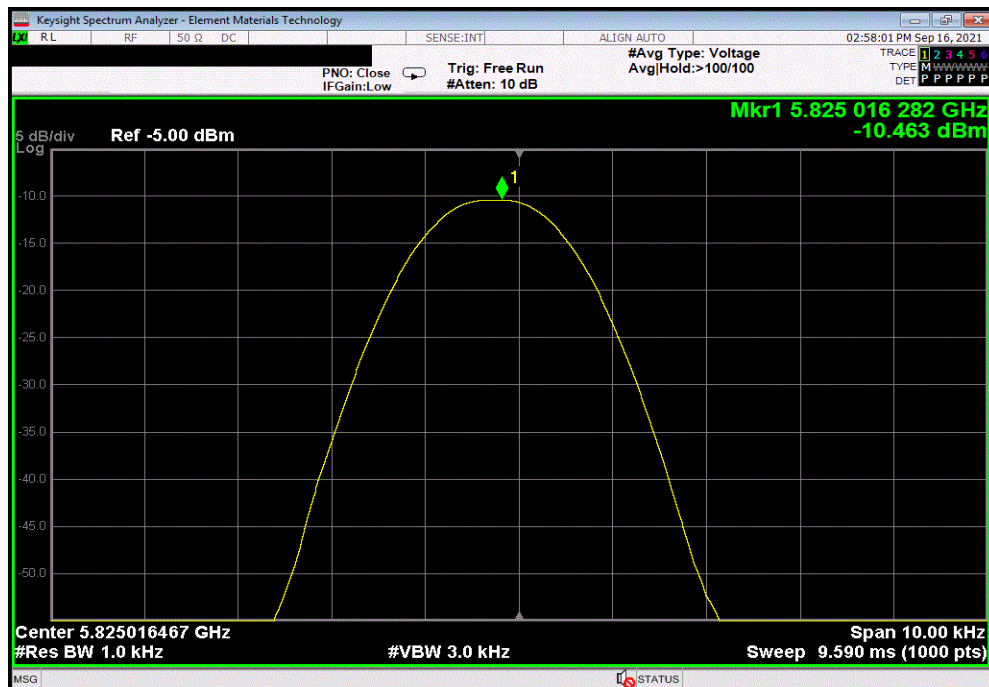


TbTx 2021.03.10.1 XMR 2020.12.30.0

5725 MHz - 5850 MHz - High Channel, 5825 MHz, Temperature: +20°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5825.005396	5824.995391	1.7	100	Pass	



5725 MHz - 5850 MHz - High Channel, 5825 MHz, Temperature: +10°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5825.016282	5824.995391	3.6	100	Pass	

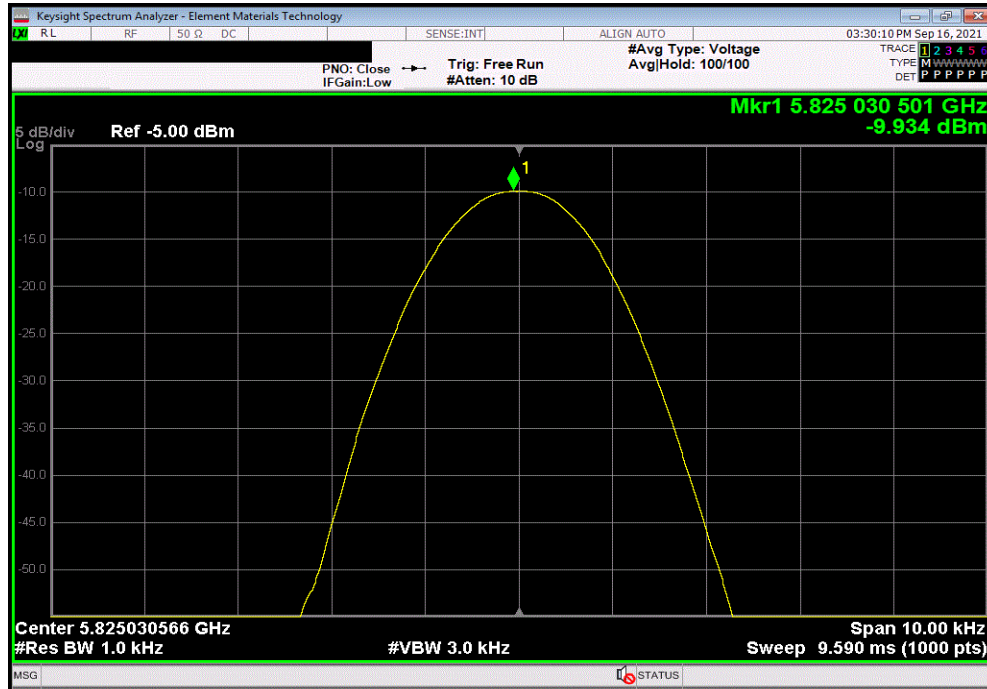


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

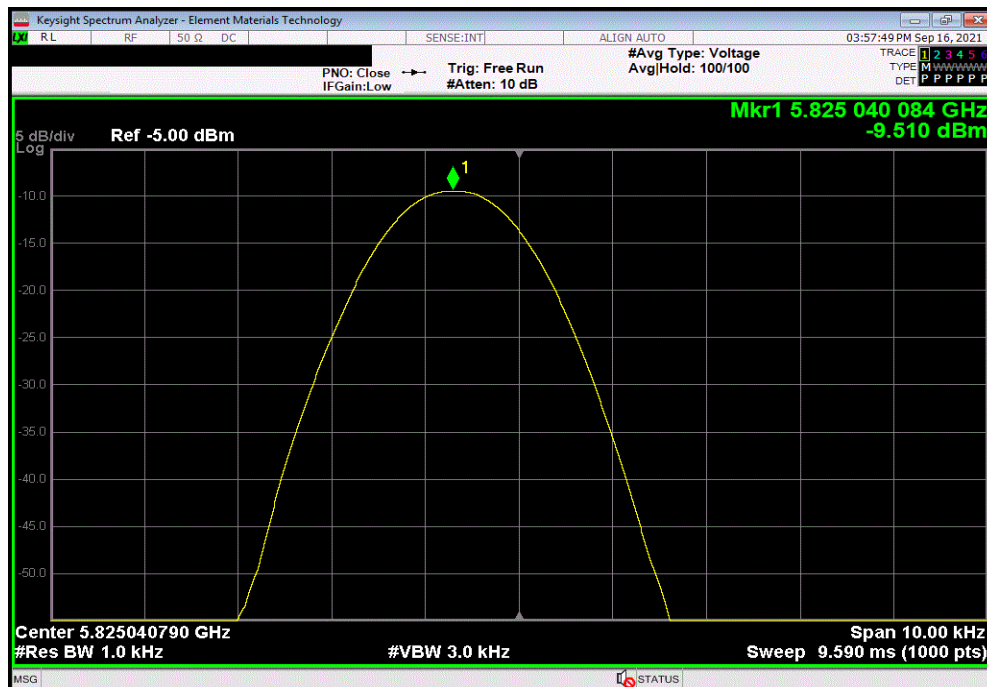


TbTx 2021.03.19.1 XMt 2020.12.30.0

5725 MHz - 5850 MHz - High Channel, 5825 MHz, Temperature: 0°						
	Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5825.030501	5824.995391	6.0	100	Pass	



5725 MHz - 5850 MHz - High Channel, 5825 MHz, Temperature: -10°						
	Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5825.040084	5824.995391	7.7	100	Pass	

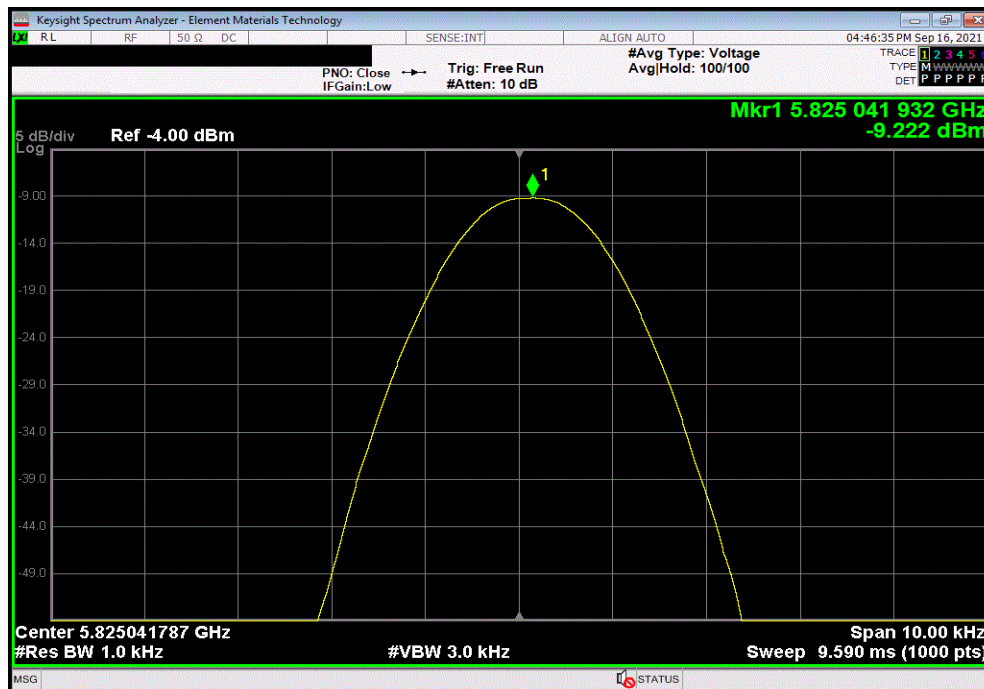


FREQUENCY STABILITY - 5.3 GHz, 5.6 GHz, 5.8 GHz BAND

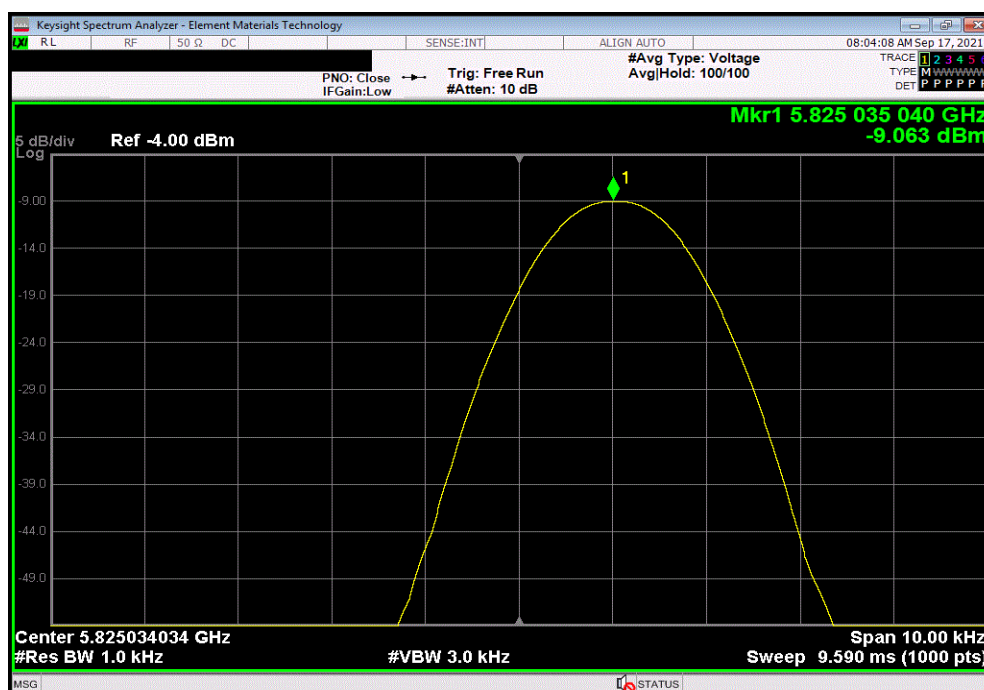


TbTtX 2021.03.19.1 XMt 2020.12.30.0

5725 MHz - 5850 MHz - High Channel, 5825 MHz, Temperature: -20°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5825.041932	5824.995391	8.0	100	Pass	



5725 MHz - 5850 MHz - High Channel, 5825 MHz, Temperature: -30°					
Measured Value (MHz)	Measured Value (MHz)	Error (ppm)	Limit (ppm)	Results	
5825.03504	5824.995391	6.8	100	Pass	



DUTY CYCLE - 5.2 GHz BAND



XMIT 2020.12.30.0

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
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	2021-04-08	2022-04-08

TEST DESCRIPTION

Per ANSI C63.10, all measurements are to be performed with the EUT operating at 100% duty cycle at its maximum power level. In the event the EUT cannot be operated at 100% duty cycle, the transmission pulse duration (T) and Duty Cycle (x) are required to be measured for each of the EUT operating modes.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, a duty cycle correction factor in dB can be calculated to add to power measurements if required in the test method guidance using the following formula

$$10 * \text{LOG} (1/D) = \text{dB}$$

Where D is duty cycle of the radio transmissions

DUTY CYCLE - 5.2 GHz BAND



TSTx 2021.03.19.1 XMR 2020.12.30.0

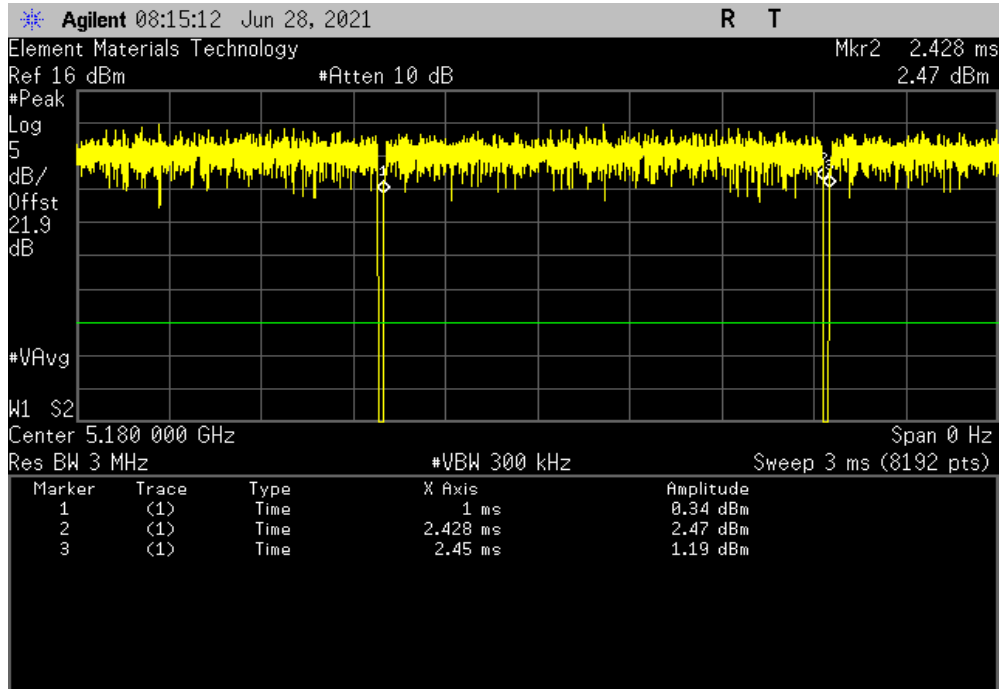
EUT: 43.0536.00				Work Order: A-DE0162				
Serial Number: SN001 00003				Date: 28-Jun-21				
Customer: A-dec, Inc.				Temperature: 25.2 °C				
Attendees: Zach Lyda				Humidity: 48.7% RH				
Project: None				Barometric Pres.: 1006 mbar				
Tested by: Jeff Alcoke		Power: 3.3 VDC via 110VAC/60Hz		Job Site: EV06				
TEST SPECIFICATIONS				Test Method				
FCC 15.407:2021				ANSI C63.10:2013				
COMMENTS								
Reference level offset: DC Block, 20 dB attenuator, and measurement cable.								
DEVIATIONS FROM TEST STANDARD								
None								
Configuration #	1	Signature 						
			Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
20 MHz								
802.11(a) 6 Mbps								
	Ch 36, Low Channel 5180 MHz		1.428 ms	1.449 ms	1	98.5	N/A	N/A
	Ch 36, Low Channel 5180 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		1.428 ms	1.449 ms	1	98.5	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 48, High Channel 5240 MHz		1.428 ms	1.449 ms	1	98.6	N/A	N/A
	Ch 48, High Channel 5240 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(a) 36 Mbps								
	Ch 36, Low Channel 5180 MHz		257.2 us	277.1 us	1	92.8	N/A	N/A
	Ch 36, Low Channel 5180 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		257.1 us	277.2 us	1	92.7	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 48, High Channel 5240 MHz		257.3 us	277.3 us	1	92.8	N/A	N/A
	Ch 48, High Channel 5240 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(a) 54 Mbps								
	Ch 36, Low Channel 5180 MHz		180.822 us	201.149 us	1	89.9	N/A	N/A
	Ch 36, Low Channel 5180 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		180.822 us	201.21 us	1	89.9	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 48, High Channel 5240 MHz		180.822 us	201.21 us	1	89.9	N/A	N/A
	Ch 48, High Channel 5240 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS0								
	Ch 36, Low Channel 5180 MHz		1.344 ms	1.366 ms	1	98.4	N/A	N/A
	Ch 36, Low Channel 5180 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		1.344 ms	1.364 ms	1	98.5	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 48, High Channel 5240 MHz		1.344 ms	1.366 ms	1	98.4	N/A	N/A
	Ch 48, High Channel 5240 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS7								
	Ch 36, Low Channel 5180 MHz		172.754 us	193.315 us	1	89.4	N/A	N/A
	Ch 36, Low Channel 5180 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		172.815 us	193.415 us	1	89.3	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 48, High Channel 5240 MHz		172.865 us	193.132 us	1	89.5	N/A	N/A
	Ch 48, High Channel 5240 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(ac) MCS8 (256-QAM)								
	Ch 36, Low Channel 5180 MHz		152.931 us	173.06 us	1	88.4	N/A	N/A
	Ch 36, Low Channel 5180 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		152.909 us	173.182 us	1	88.3	N/A	N/A
	Ch 40, Mid Channel 5200 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 48, High Channel 5240 MHz		152.877 us	173.06 us	1	88.3	N/A	N/A
	Ch 48, High Channel 5240 MHz		N/A	N/A	5	N/A	N/A	N/A
40 MHz								
802.11(n) MCS0								
	Ch 36/40, Low Channel 5190 MHz		670.15 us	689.009 us	1	97.3	N/A	N/A
	Ch 36/40, Low Channel 5190 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 44/48, High Channel 5230 MHz		670.297 us	689.338 us	1	97.2	N/A	N/A
	Ch 44/48, High Channel 5230 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS7								
	Ch 36/40, Low Channel 5190 MHz		106.585 us	125.053 us	1	85.2	N/A	N/A
	Ch 36/40, Low Channel 5190 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 44/48, High Channel 5230 MHz		106.524 us	125.075 us	1	85.2	N/A	N/A
	Ch 44/48, High Channel 5230 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(ac) MCS9 (256-QAM)								
	Ch 36/40, Low Channel 5190 MHz		90.566 us	108.739 us	1	83.3	N/A	N/A
	Ch 36/40, Low Channel 5190 MHz		N/A	N/A	5	N/A	N/A	N/A
	Ch 44/48, High Channel 5230 MHz		90.396 us	108.749 us	1	83.1	N/A	N/A
	Ch 44/48, High Channel 5230 MHz		N/A	N/A	5	N/A	N/A	N/A
80 MHz								
802.11(ac) MCS0								
	Ch 36-48, Low Channel 5210 MHz		334.9 us	352.9 us	1	94.9	N/A	N/A
	Ch 36-48, Low Channel 5210 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(ac) MCS9 (256-QAM)								
	Ch 36-48, Low Channel 5210 MHz		66.337 us	84.818 us	1	78.2	N/A	N/A
	Ch 36-48, Low Channel 5210 MHz		N/A	N/A	5	N/A	N/A	N/A

DUTY CYCLE - 5.2 GHz BAND

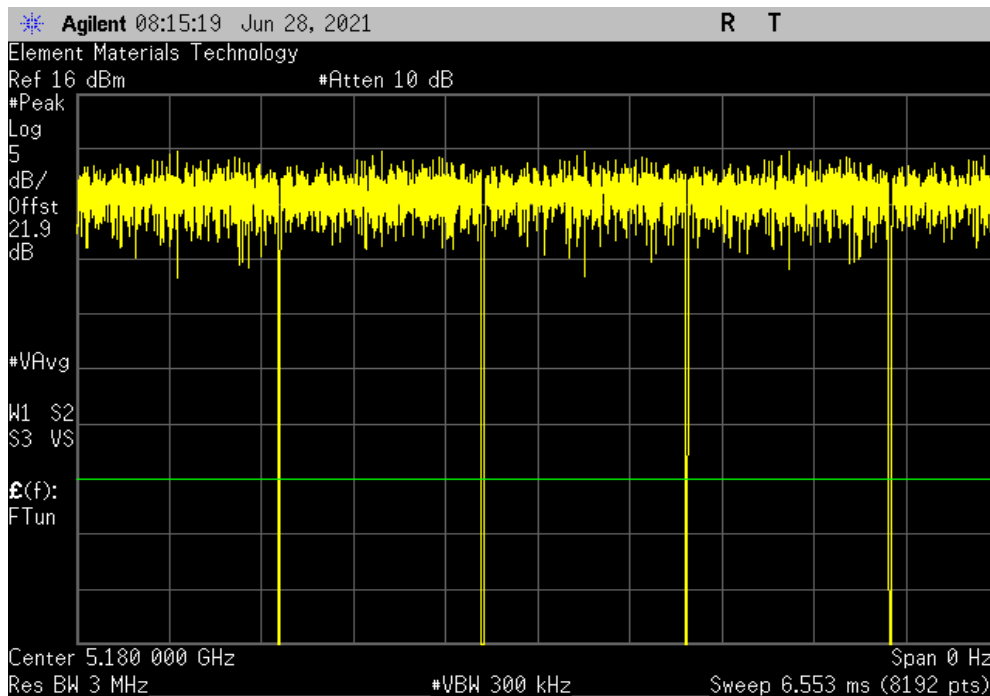


TbTx 2021.03.19.1 XM8 2020.12.30.0

20 MHz, 802.11(a) 6 Mbps, Ch 36, Low Channel 5180 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	1.428 ms	1.449 ms	1	98.5	N/A	N/A



20 MHz, 802.11(a) 6 Mbps, Ch 36, Low Channel 5180 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	N/A	N/A	5	N/A	N/A	N/A

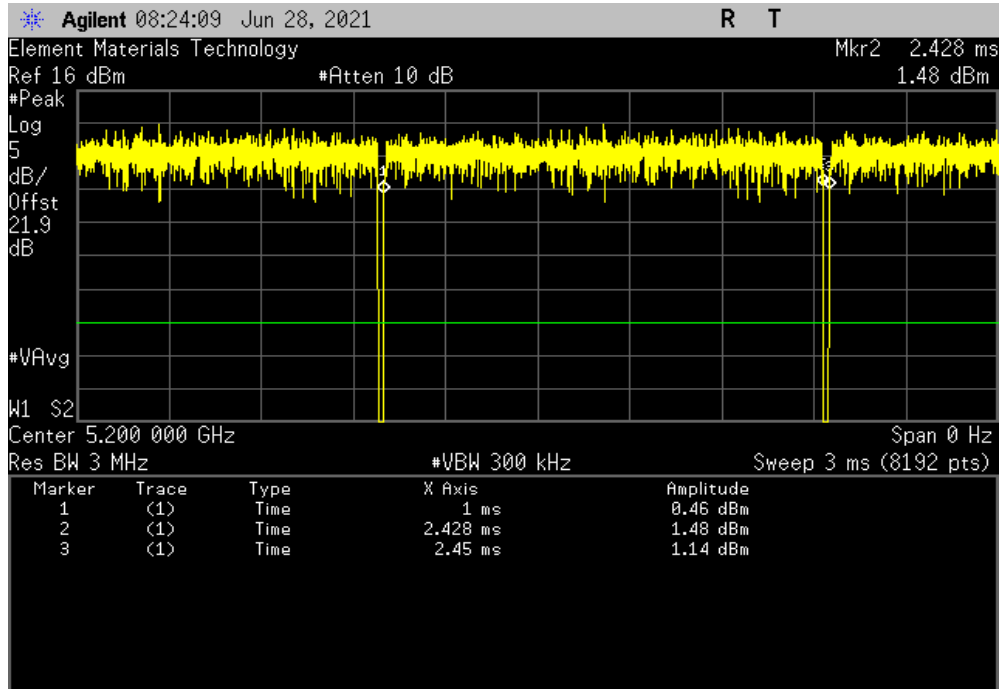


DUTY CYCLE - 5.2 GHz BAND

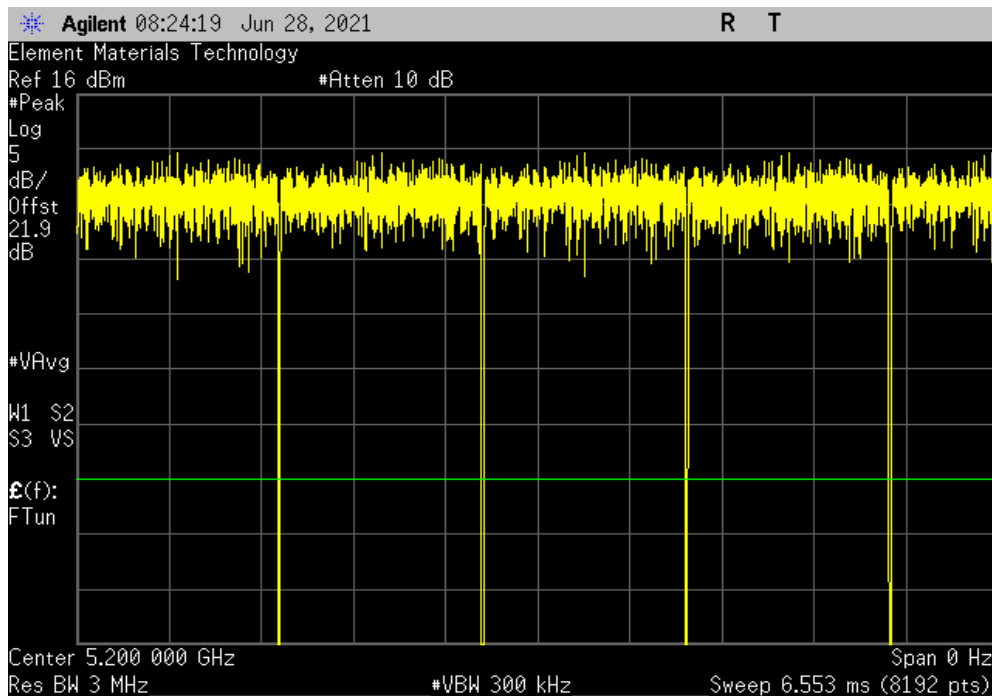


TbTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 6 Mbps, Ch 40, Mid Channel 5200 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	1.428 ms	1.449 ms	1	98.5	N/A	N/A



20 MHz, 802.11(a) 6 Mbps, Ch 40, Mid Channel 5200 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	N/A	N/A	5	N/A	N/A	N/A

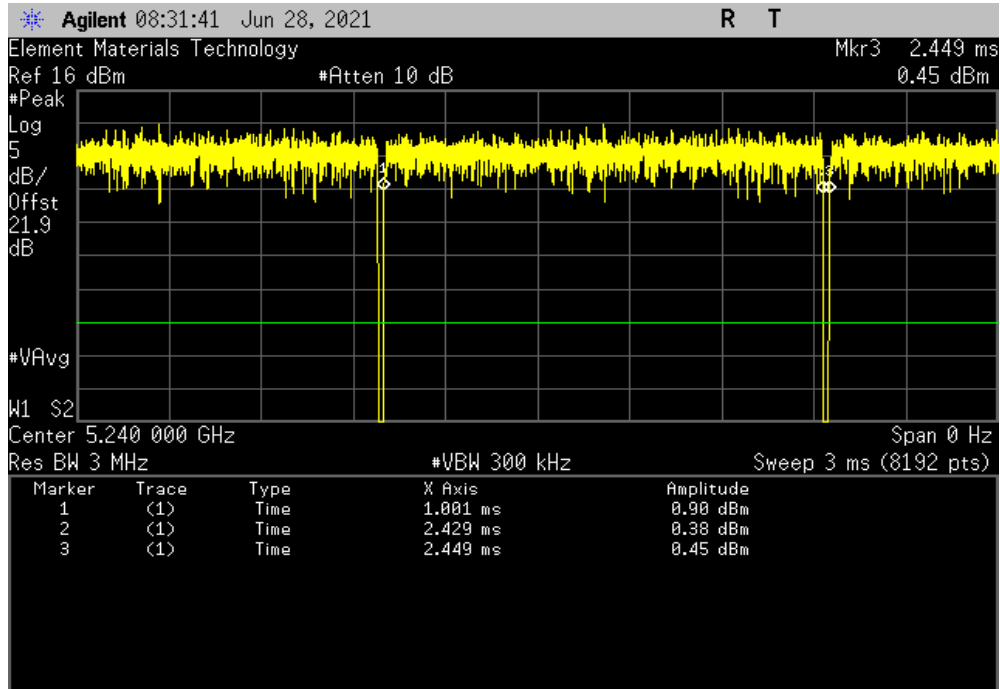


DUTY CYCLE - 5.2 GHz BAND

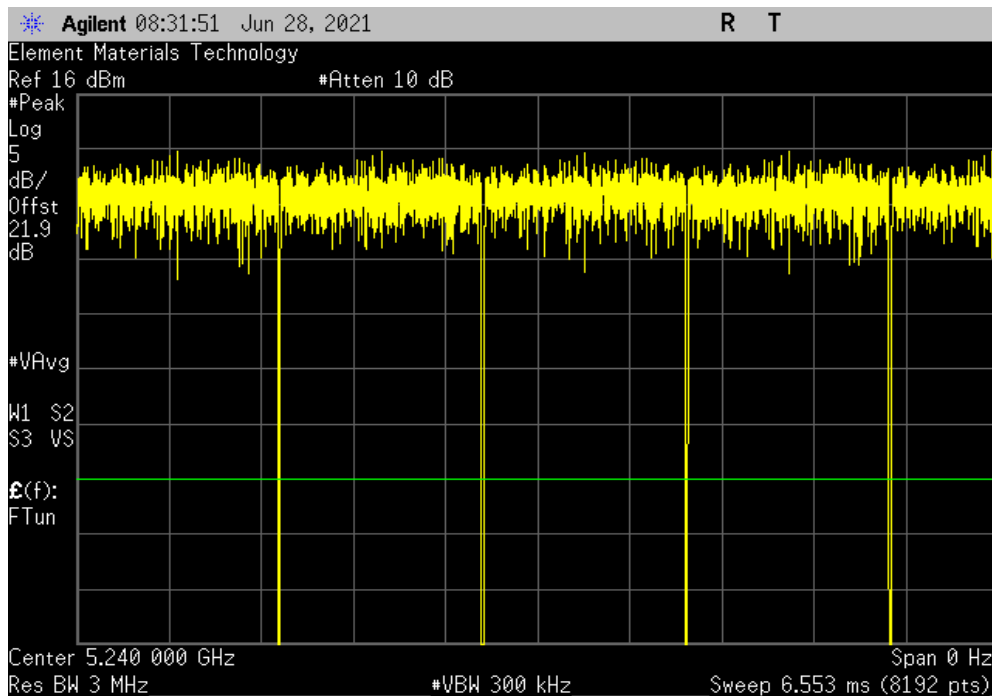


TbTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	1.428 ms	1.449 ms	1	98.6	N/A	N/A



20 MHz, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	N/A	N/A	5	N/A	N/A	N/A

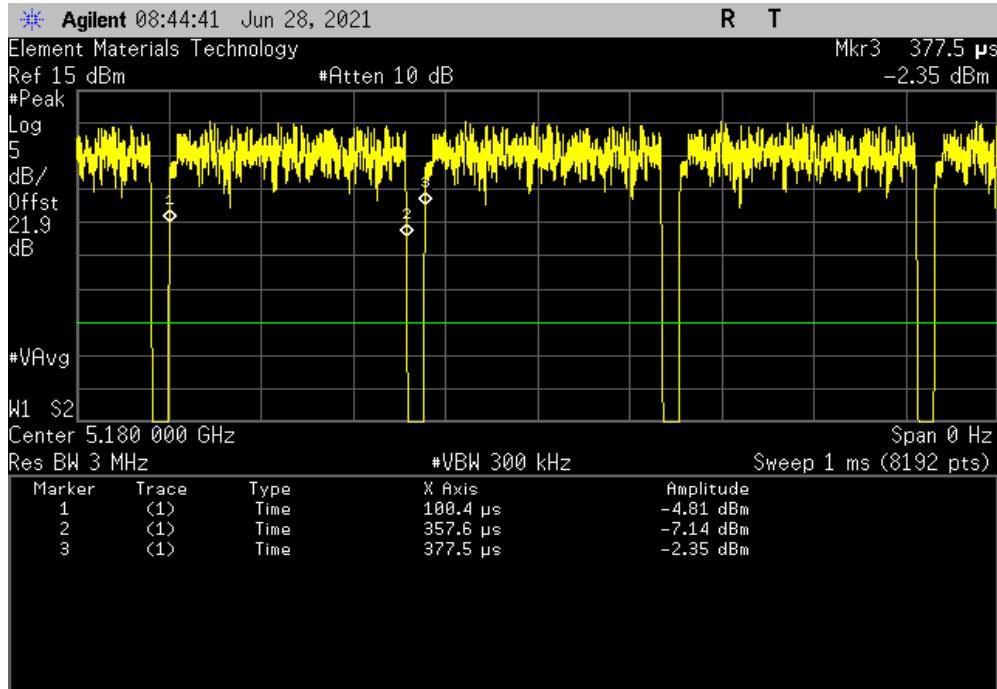


DUTY CYCLE - 5.2 GHz BAND

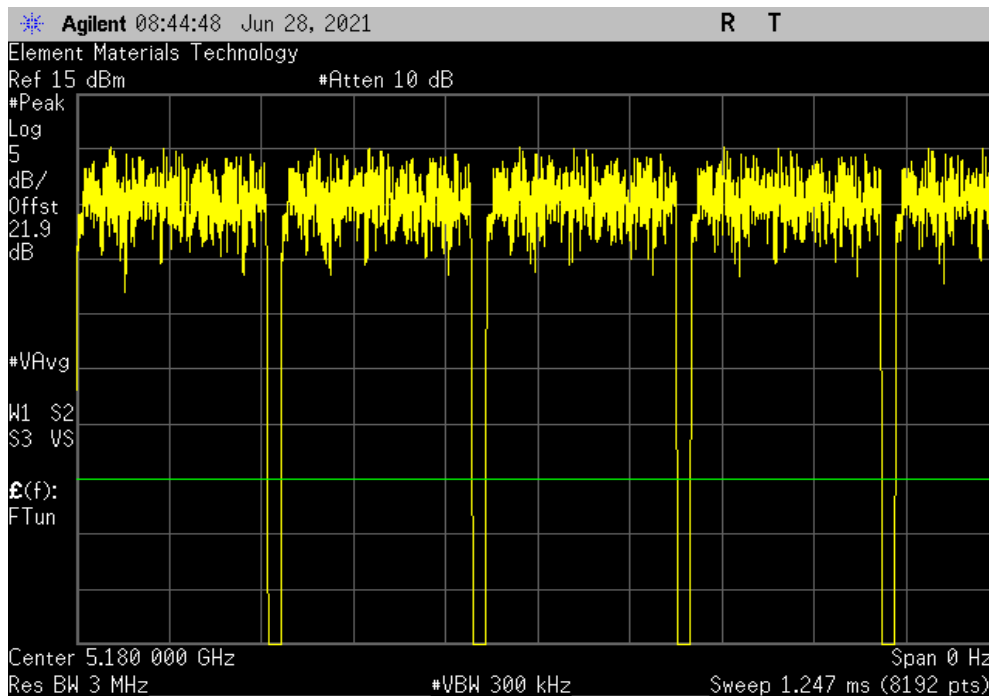


TbTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 36 Mbps, Ch 36, Low Channel 5180 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	257.2 us	277.1 us	1	92.8	N/A	N/A



20 MHz, 802.11(a) 36 Mbps, Ch 36, Low Channel 5180 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	N/A	N/A	5	N/A	N/A	N/A

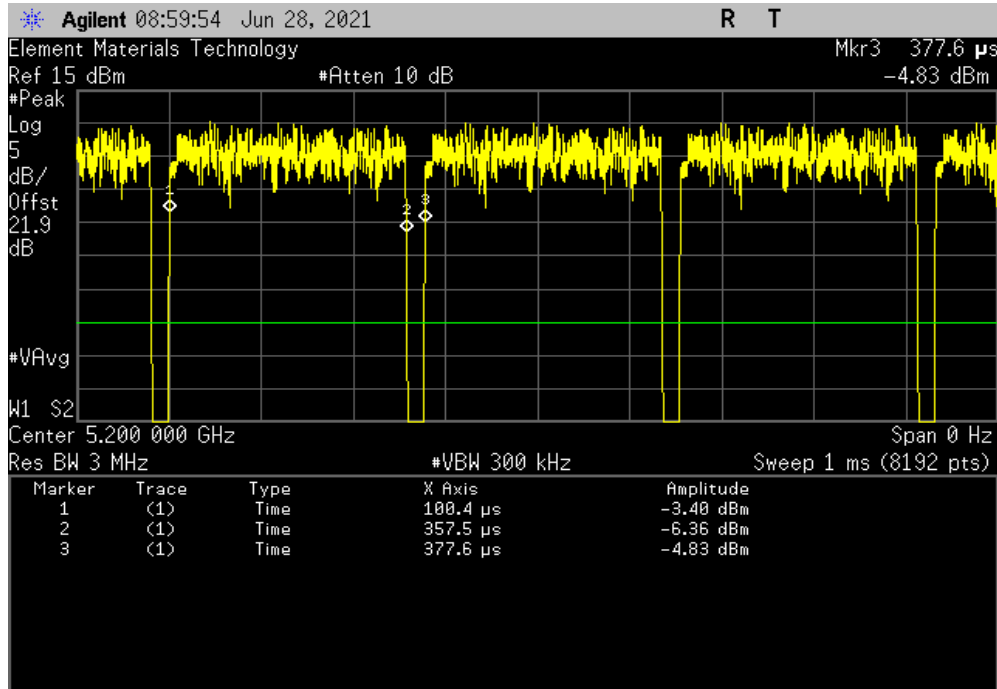


DUTY CYCLE - 5.2 GHz BAND

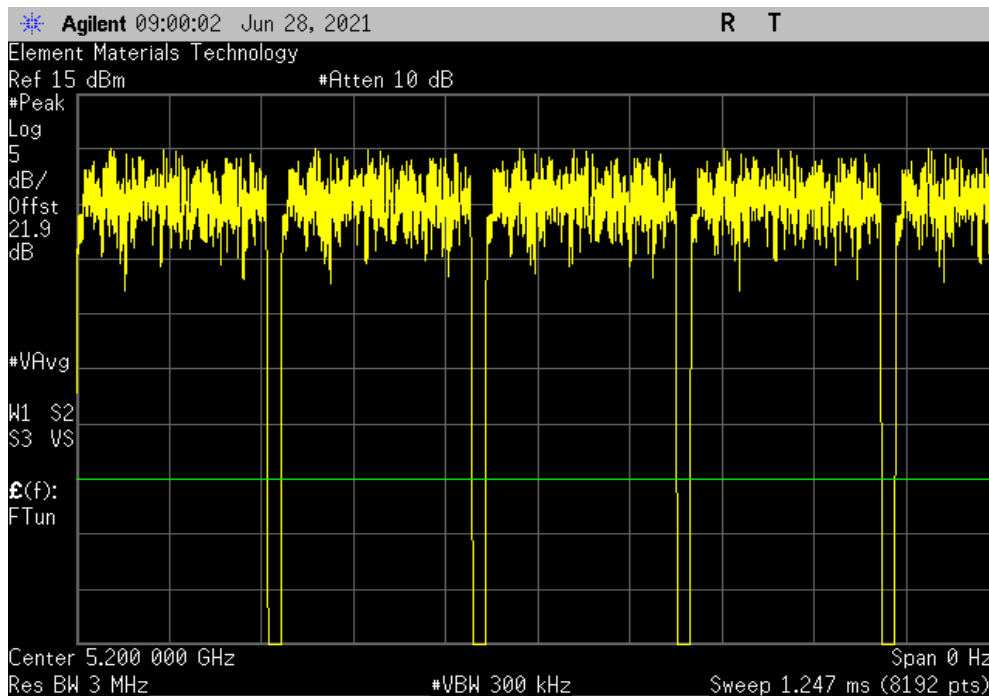


TbTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 36 Mbps, Ch 40, Mid Channel 5200 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
257.1 us	277.2 us	1	92.7	N/A (N/A)	N/A	



20 MHz, 802.11(a) 36 Mbps, Ch 40, Mid Channel 5200 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

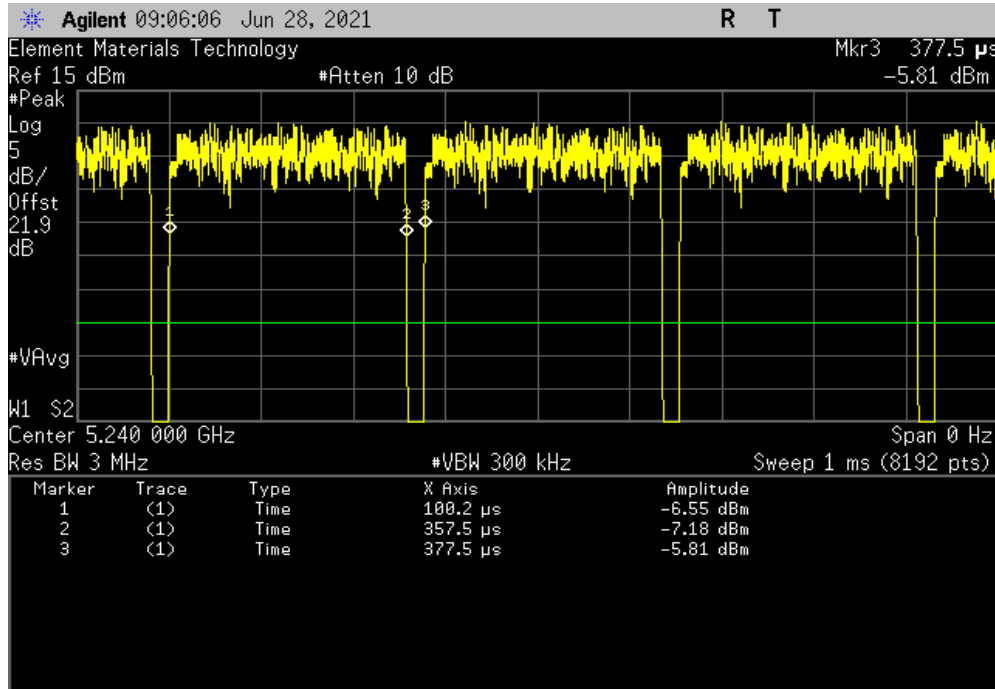


DUTY CYCLE - 5.2 GHz BAND

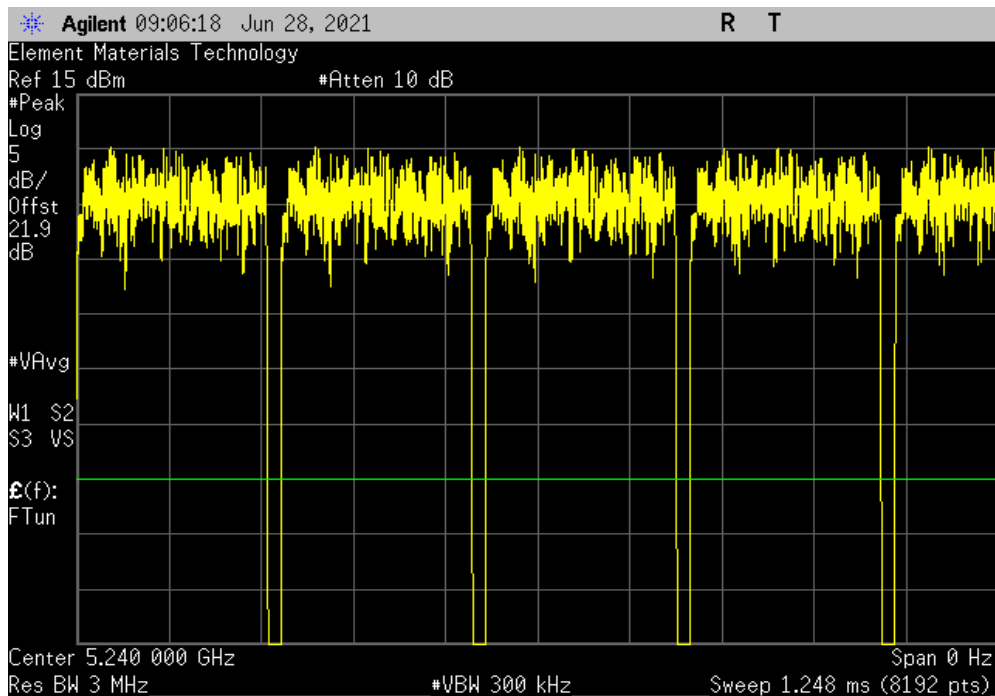


TbTx 2021.03.19.1 XM8 2020.12.30.0

20 MHz, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
257.3 us	277.3 us	1	92.8	N/A (N/A)	N/A	



20 MHz, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

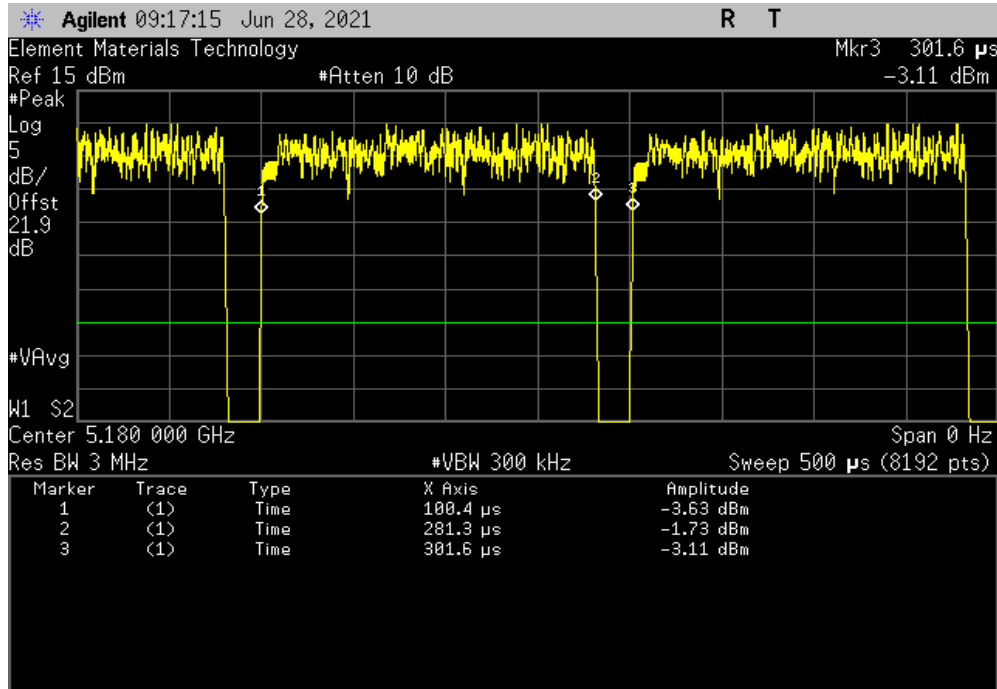


DUTY CYCLE - 5.2 GHz BAND



TMTx 2021.03.10.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 54 Mbps, Ch 36, Low Channel 5180 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
180.822 us	201.149 us	1	89.9	N/A (N/A)	N/A	



20 MHz, 802.11(a) 54 Mbps, Ch 36, Low Channel 5180 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

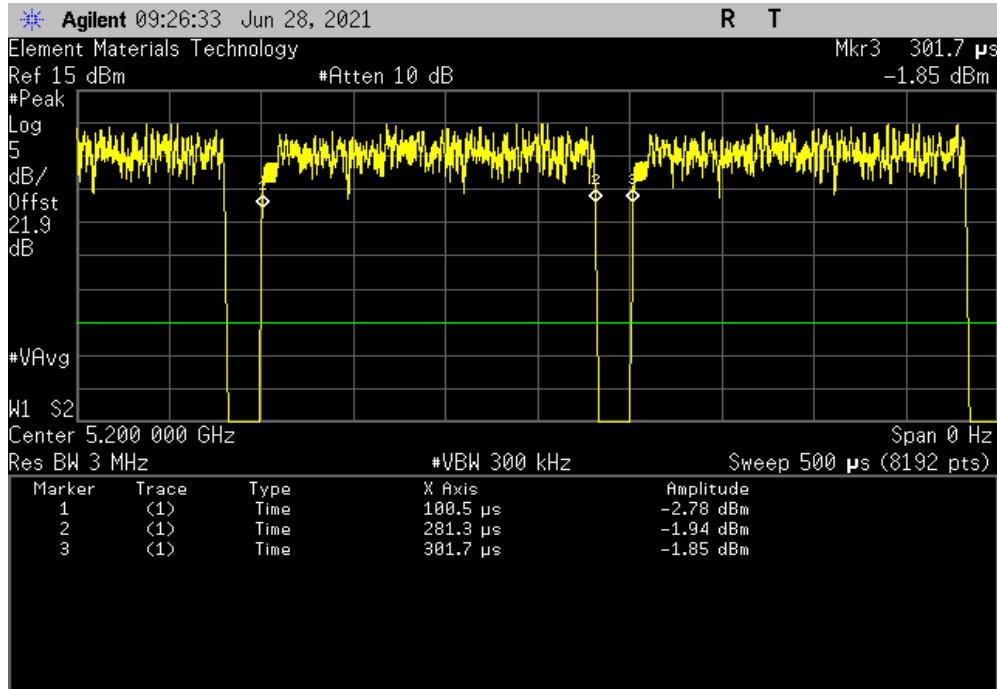


DUTY CYCLE - 5.2 GHz BAND

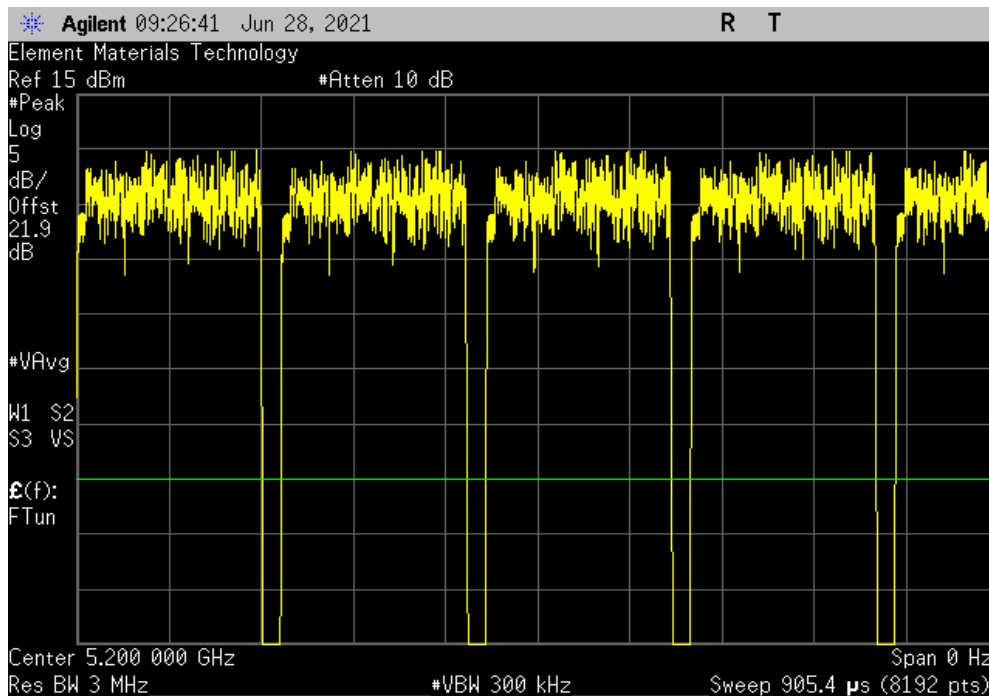


TbTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 54 Mbps, Ch 40, Mid Channel 5200 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
180.822 us	201.21 us	1	89.9	N/A (N/A)	N/A	



20 MHz, 802.11(a) 54 Mbps, Ch 40, Mid Channel 5200 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

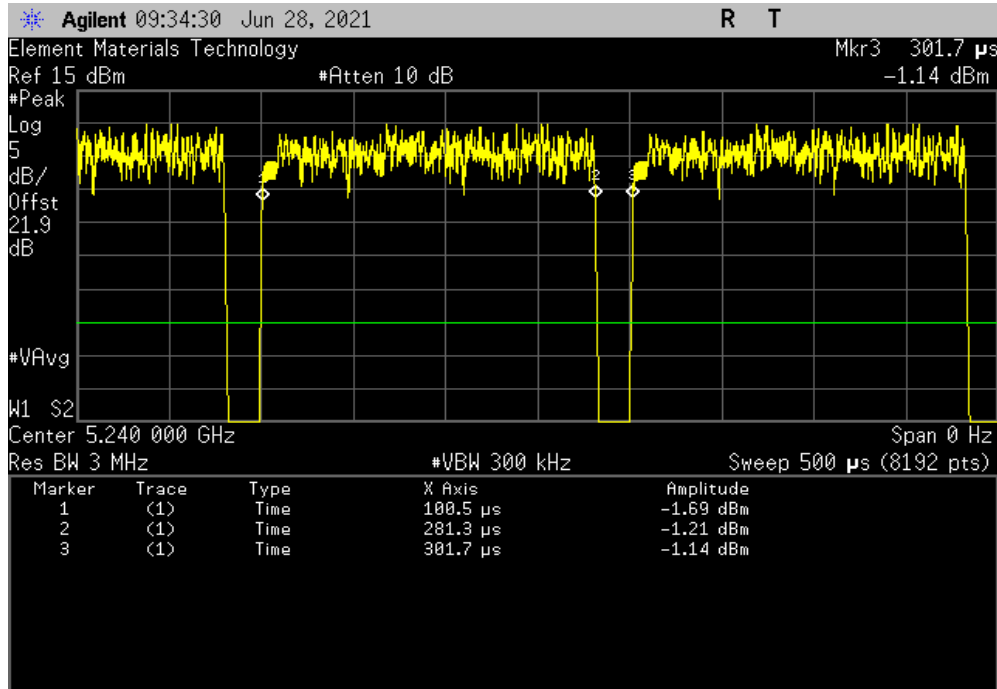


DUTY CYCLE - 5.2 GHz BAND



TMTx 2021.03.10.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
180.822 us	201.21 us	1	89.9	N/A (N/A)	N/A	



20 MHz, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

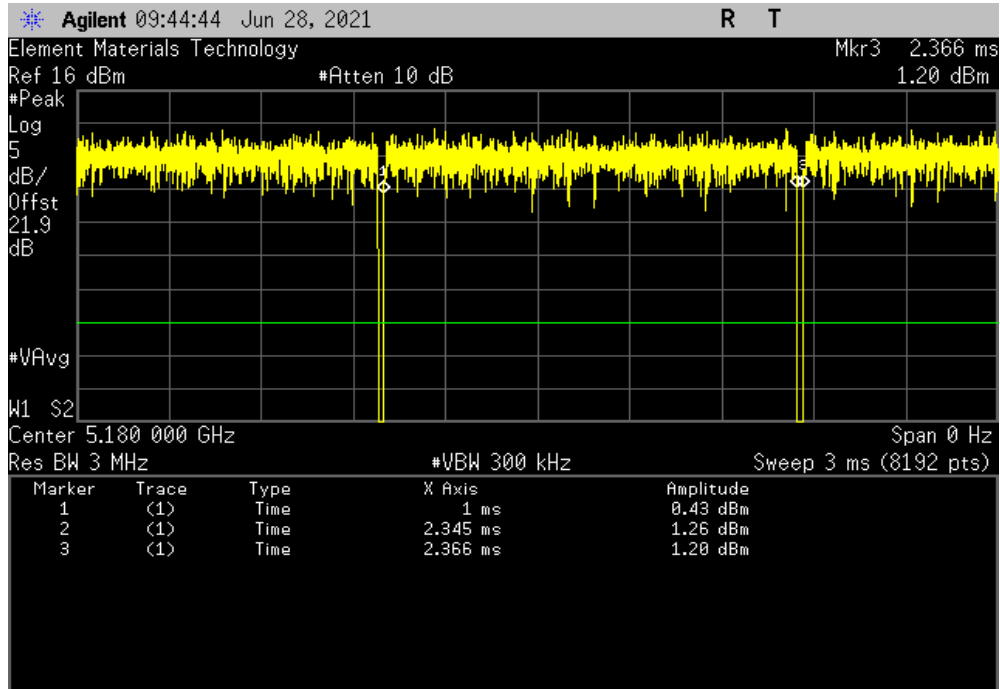


DUTY CYCLE - 5.2 GHz BAND

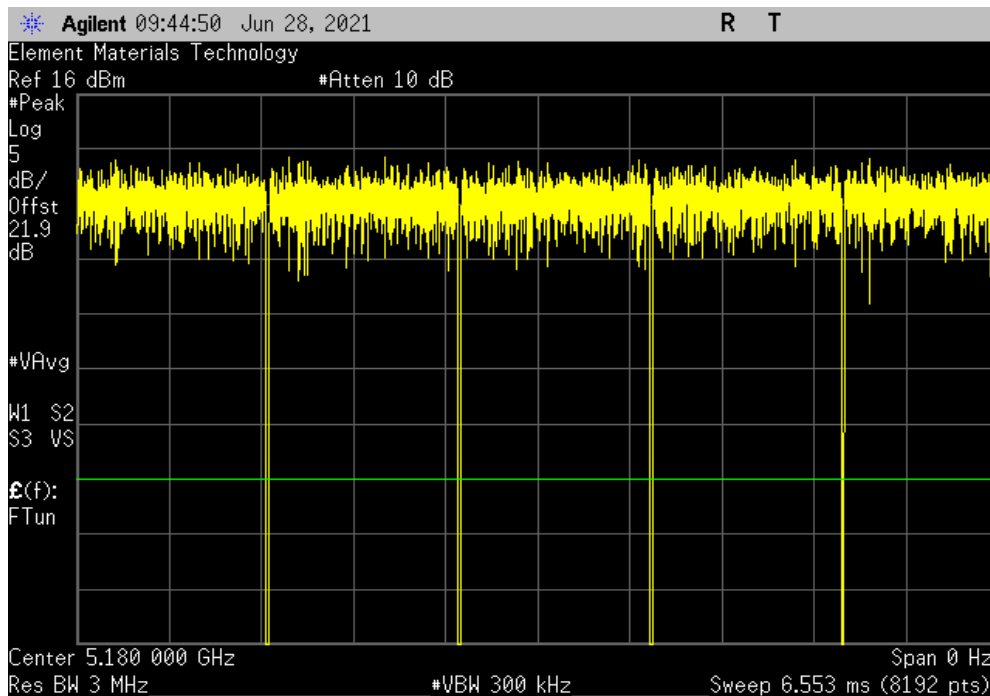


TbTx 2021.03.10.1 XMR 2020.12.30.0

20 MHz, 802.11(n) MCS0, Ch 36, Low Channel 5180 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	1.344 ms	1.366 ms	1	98.4	N/A	N/A



20 MHz, 802.11(n) MCS0, Ch 36, Low Channel 5180 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	N/A	N/A	5	N/A	N/A	N/A

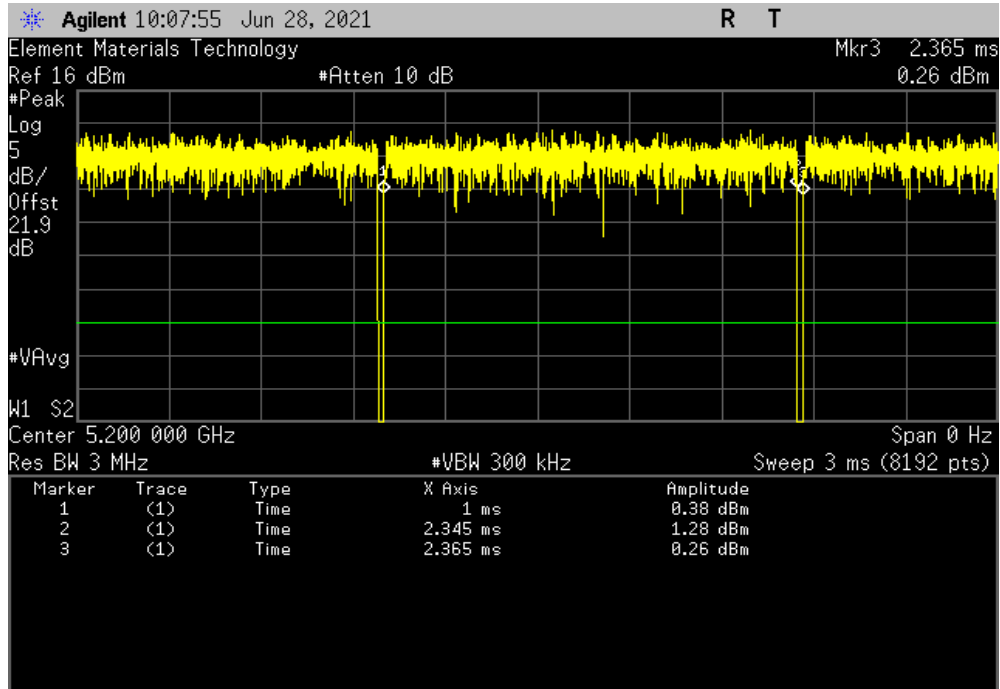


DUTY CYCLE - 5.2 GHz BAND

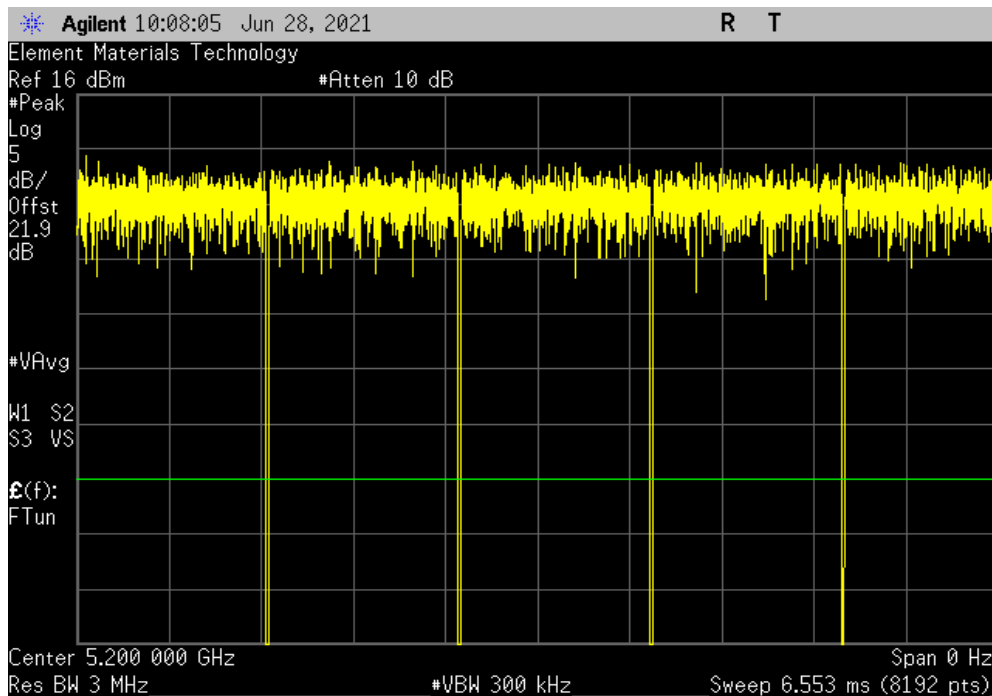


TMTx 2021.03.10.1 XMR 2020.12.30.0

20 MHz, 802.11(n) MCS0, Ch 40, Mid Channel 5200 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	1.344 ms	1.364 ms	1	98.5	N/A	N/A



20 MHz, 802.11(n) MCS0, Ch 40, Mid Channel 5200 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	N/A	N/A	5	N/A	N/A	N/A

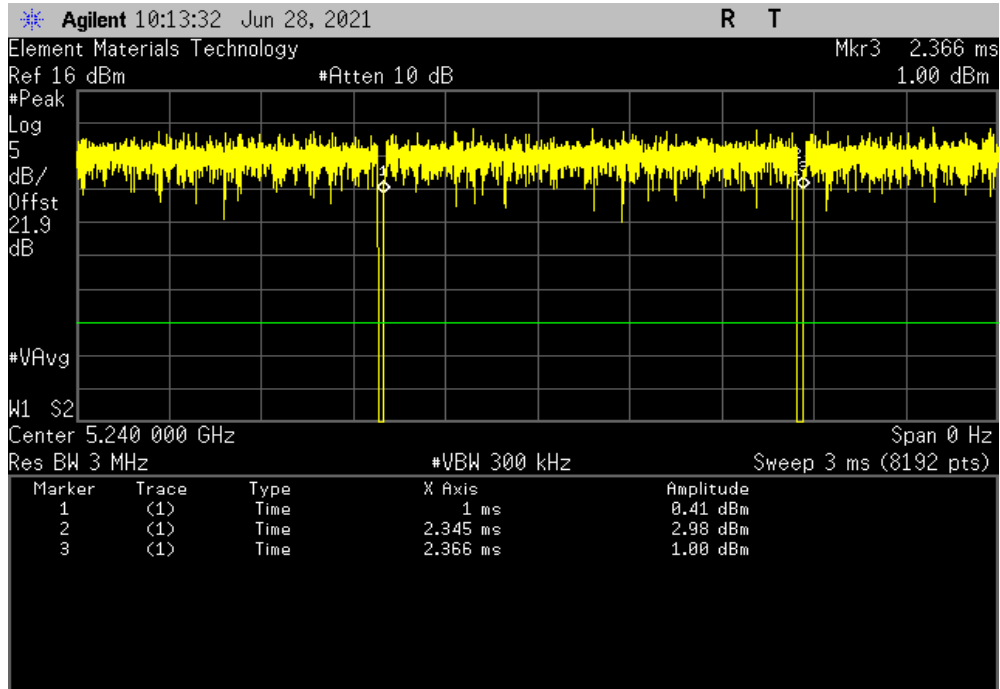


DUTY CYCLE - 5.2 GHz BAND

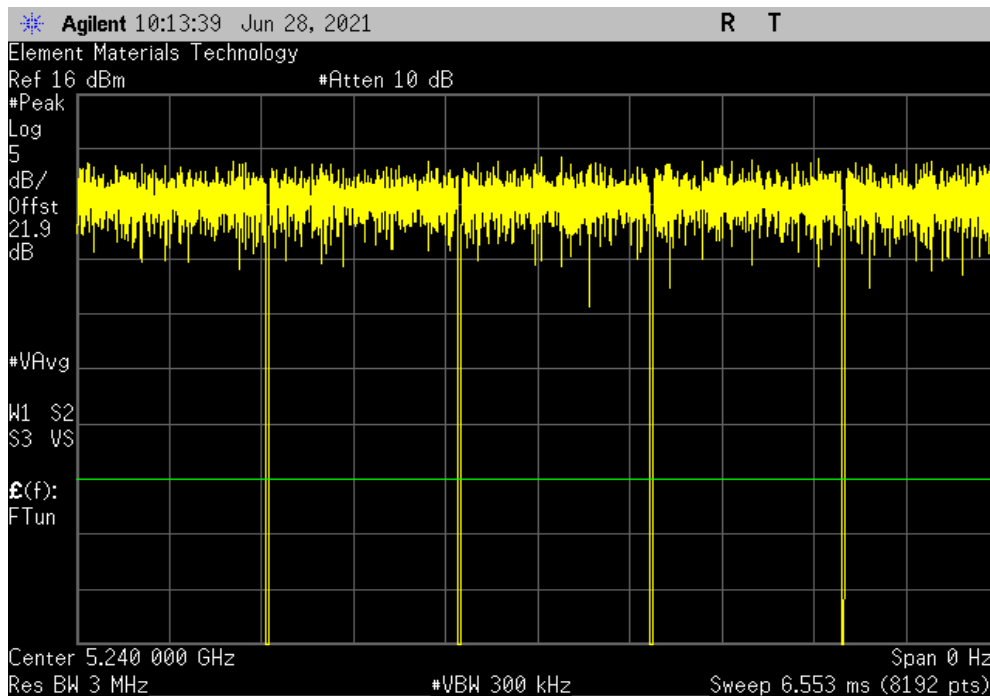


TbTx 2021.03.10.1 XMR 2020.12.30.0

20 MHz, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
1.344 ms	1.366 ms	1	98.4	N/A (N/A)	N/A	



20 MHz, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

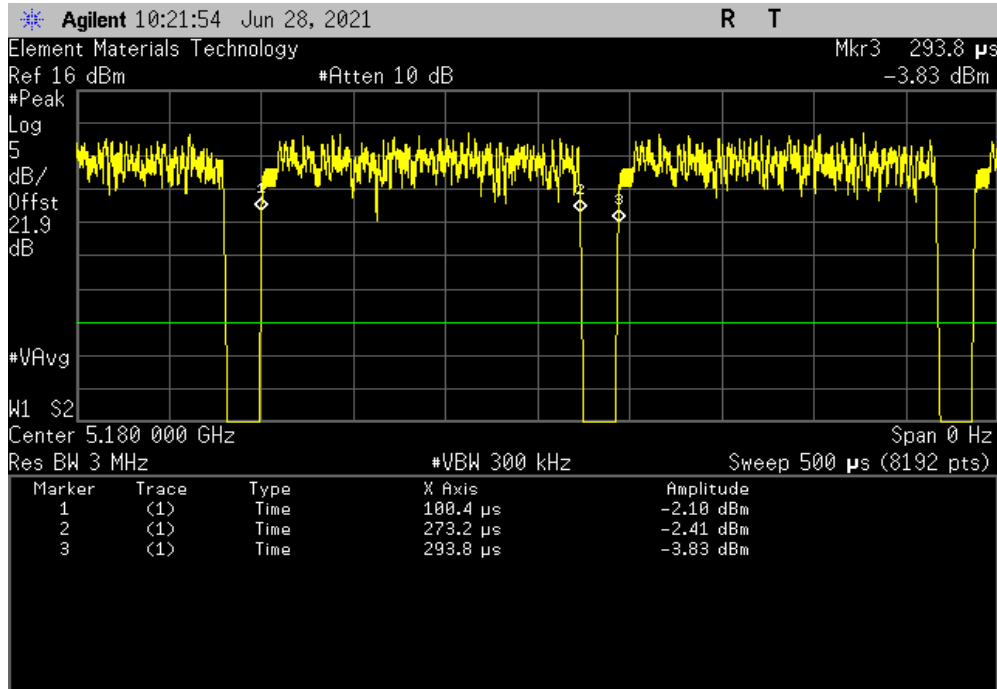


DUTY CYCLE - 5.2 GHz BAND

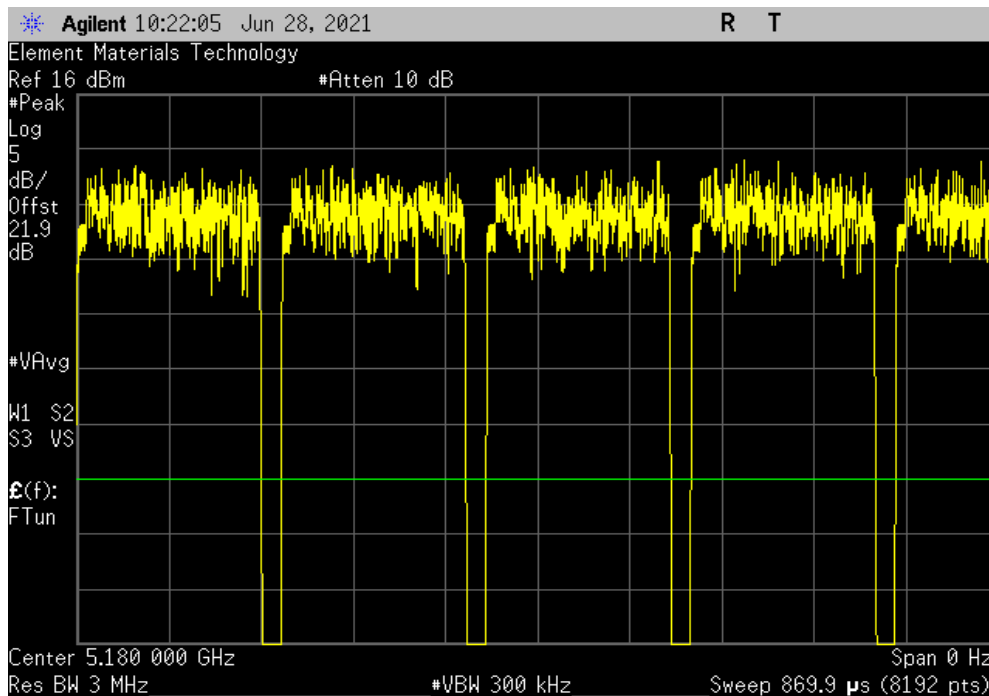


TMTx 2021.03.10.1 XMR 2020.12.30.0

20 MHz, 802.11(n) MCS7, Ch 36, Low Channel 5180 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
172.754 us	193.315 us	1	89.4	N/A (N/A)	N/A	



20 MHz, 802.11(n) MCS7, Ch 36, Low Channel 5180 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

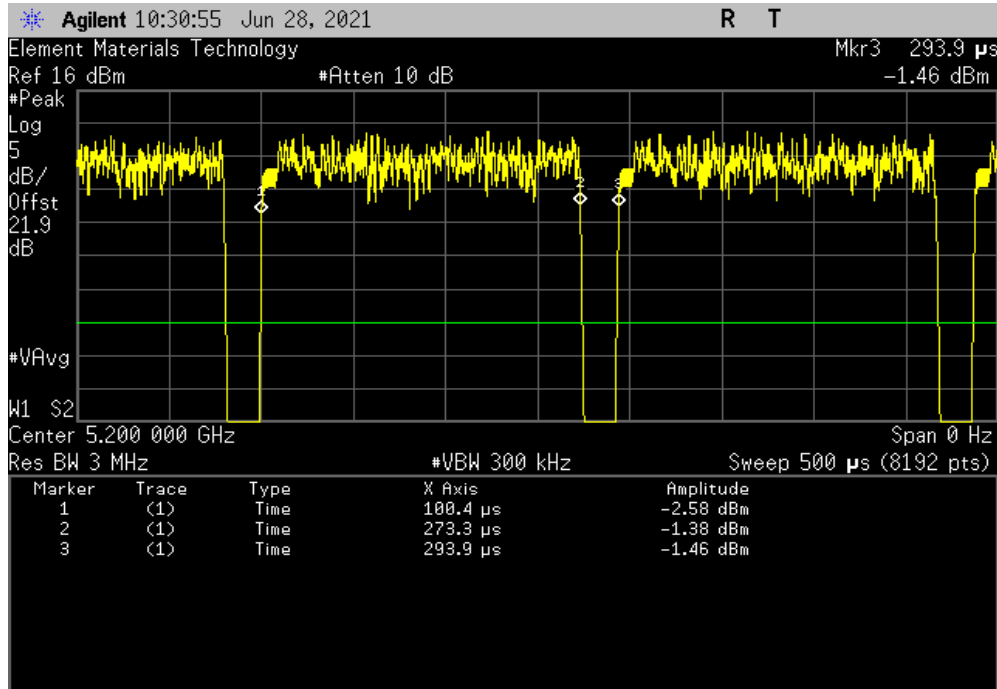


DUTY CYCLE - 5.2 GHz BAND

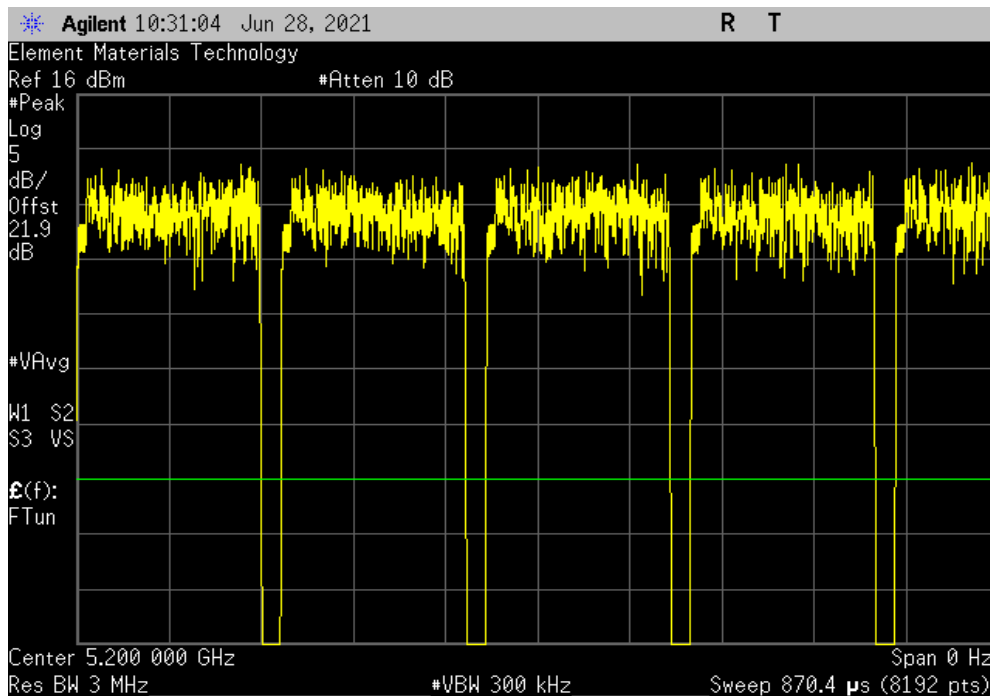


TMTx 2021.03.10.1 XMR 2020.12.30.0

20 MHz, 802.11(n) MCS7, Ch 40, Mid Channel 5200 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
172.815 us	193.415 us	1	89.3	N/A (N/A)	N/A	



20 MHz, 802.11(n) MCS7, Ch 40, Mid Channel 5200 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

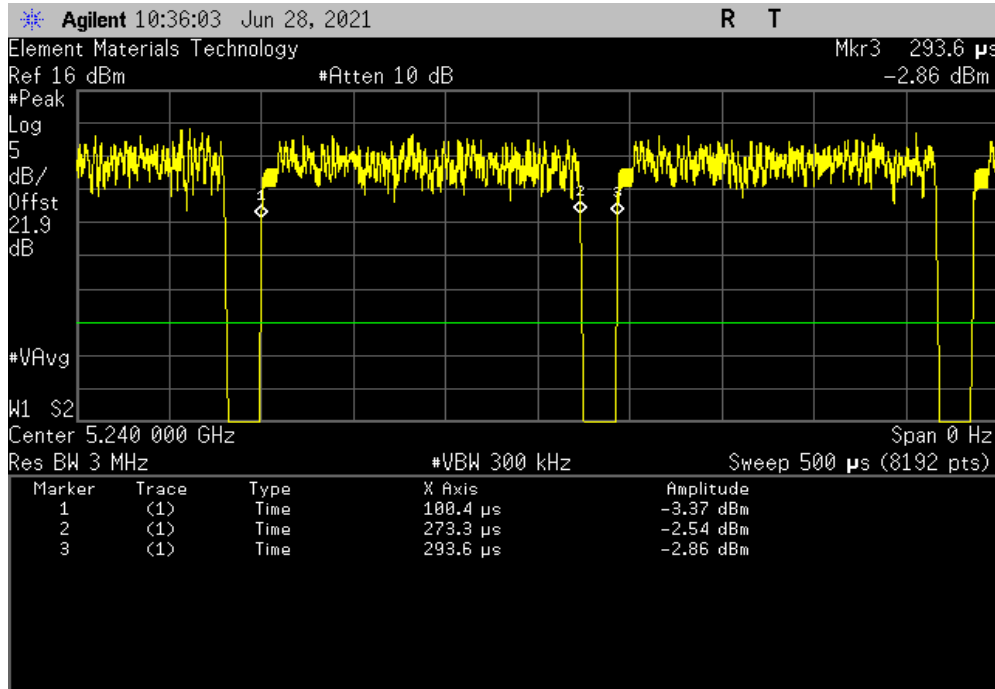


DUTY CYCLE - 5.2 GHz BAND

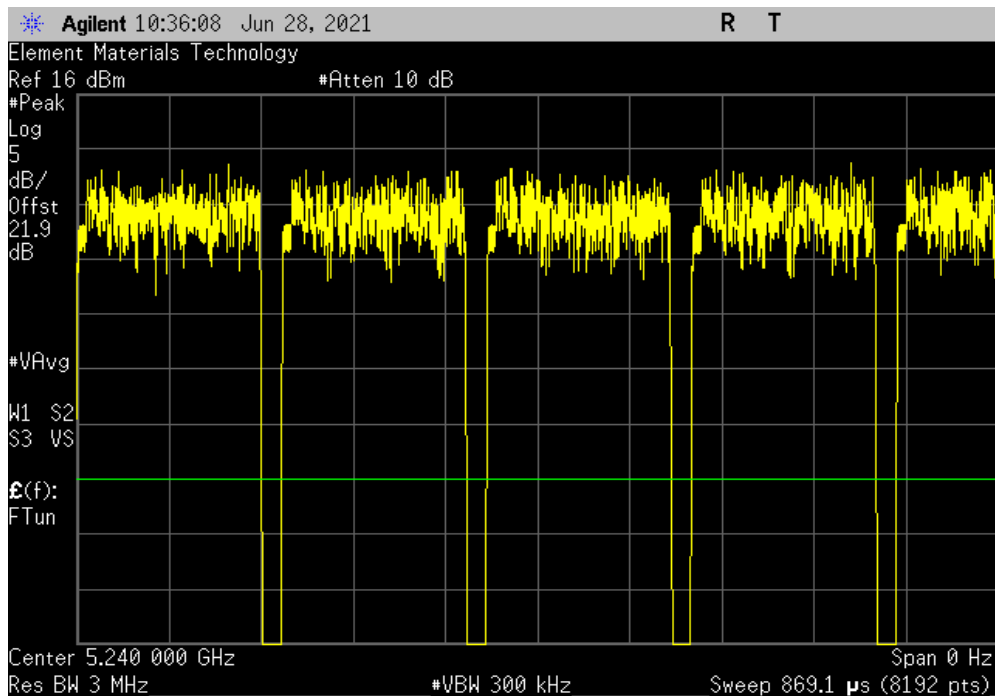


TMTx 2021.03.10.1 XMR 2020.12.30.0

20 MHz, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
172.865 us	193.132 us	1	89.5	N/A (N/A)	N/A	



20 MHz, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

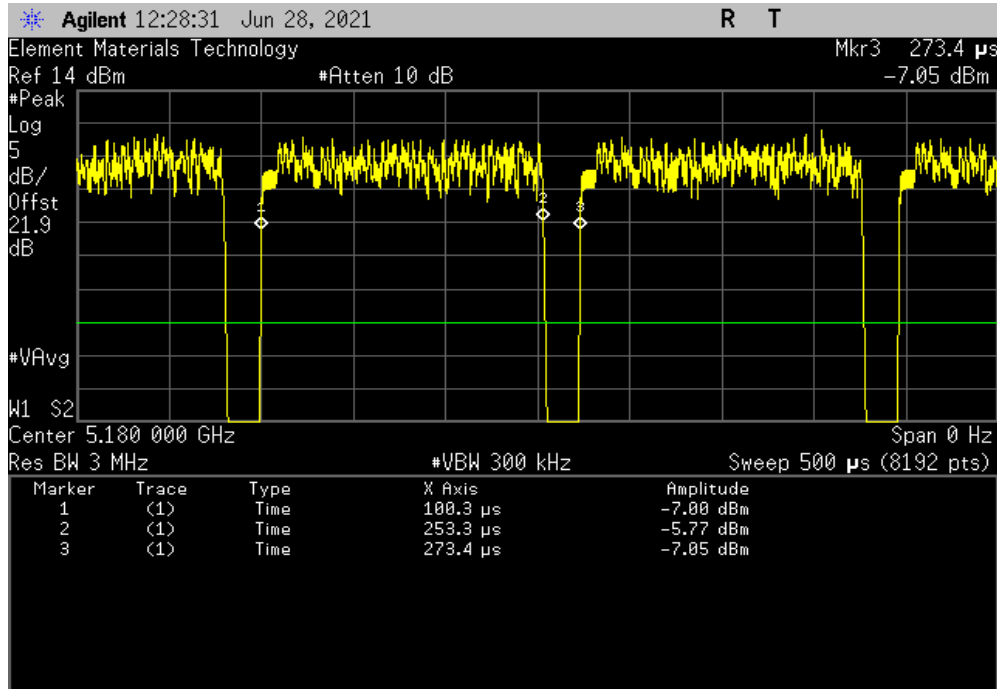


DUTY CYCLE - 5.2 GHZ BAND

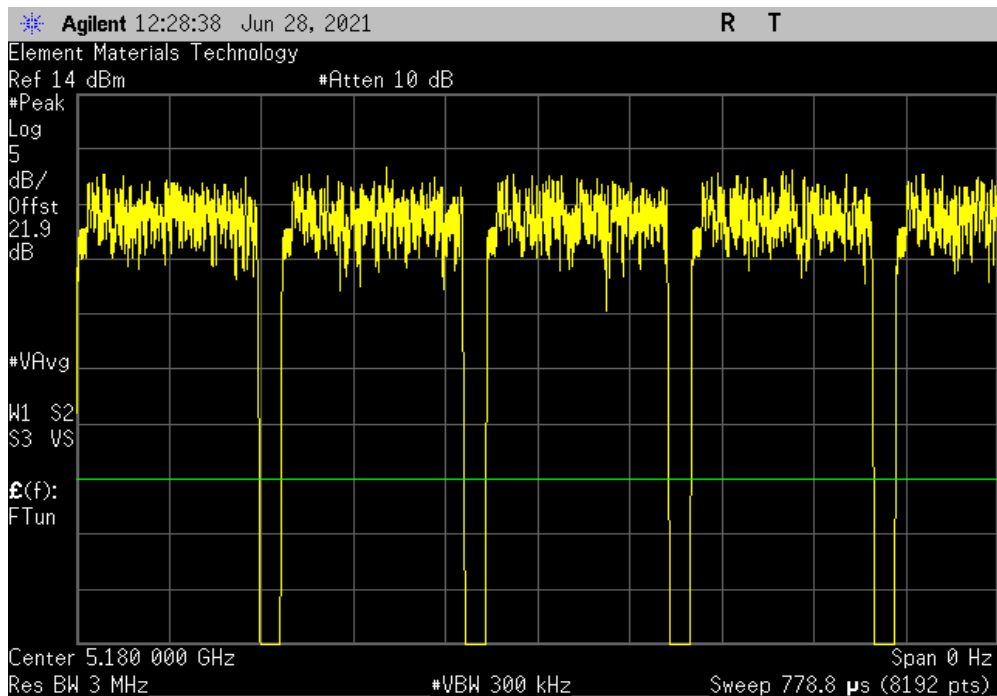


TMTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 36, Low Channel 5180 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
152.931 us	173.06 us	1	88.4	N/A (N/A)	N/A	



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 36, Low Channel 5180 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

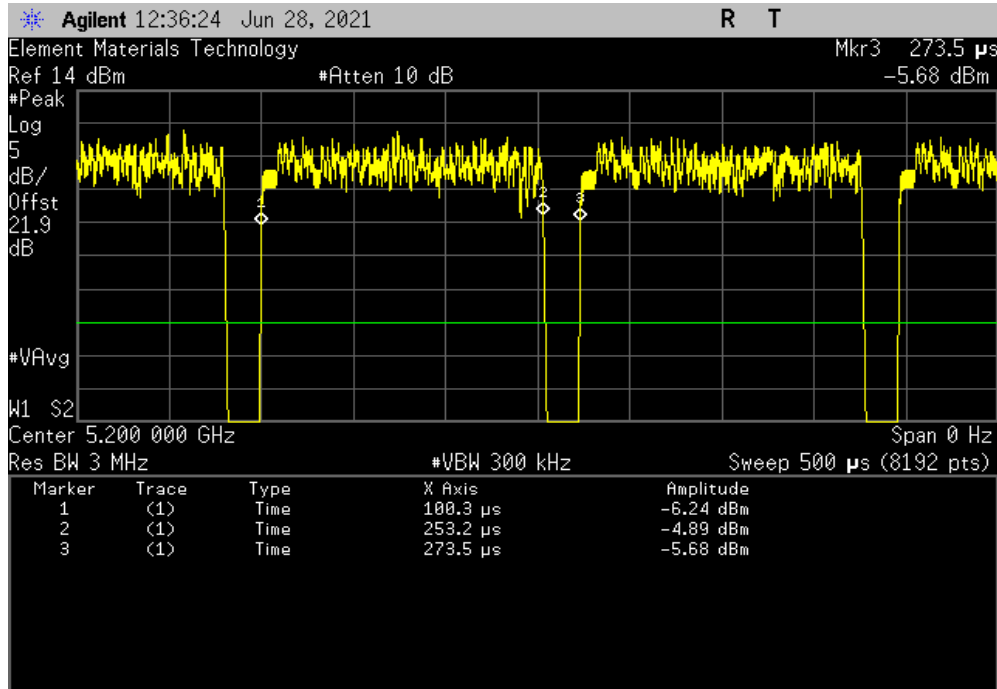


DUTY CYCLE - 5.2 GHZ BAND

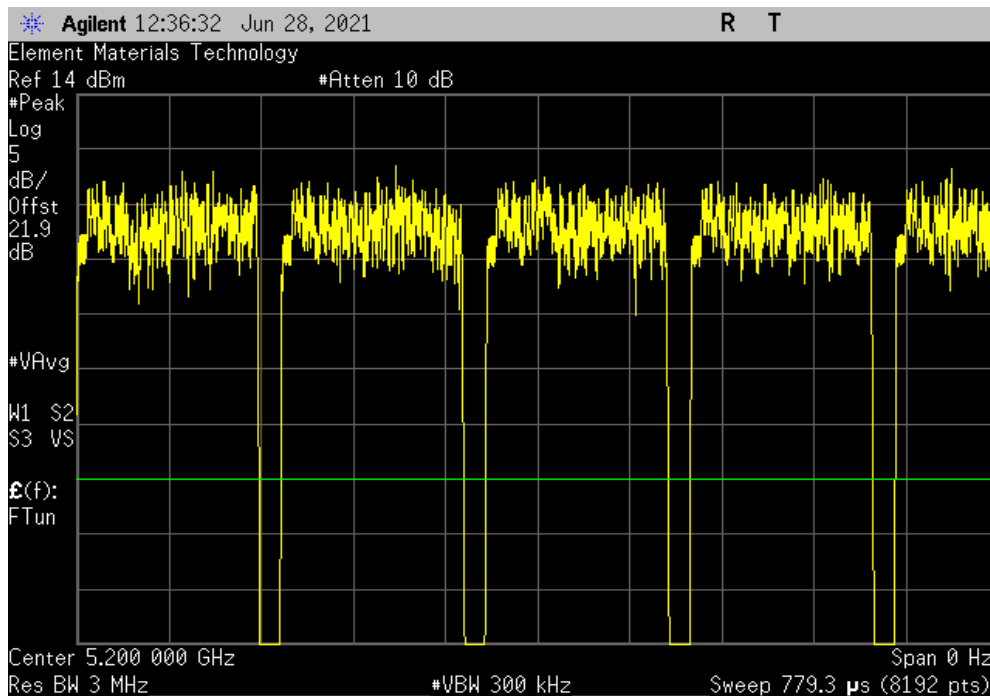


TbTx 2021.03.19.1 XM8 2020.12.30.0

20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 40, Mid Channel 5200 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
152.909 us	173.182 us	1	88.3	N/A (N/A)	N/A	



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 40, Mid Channel 5200 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

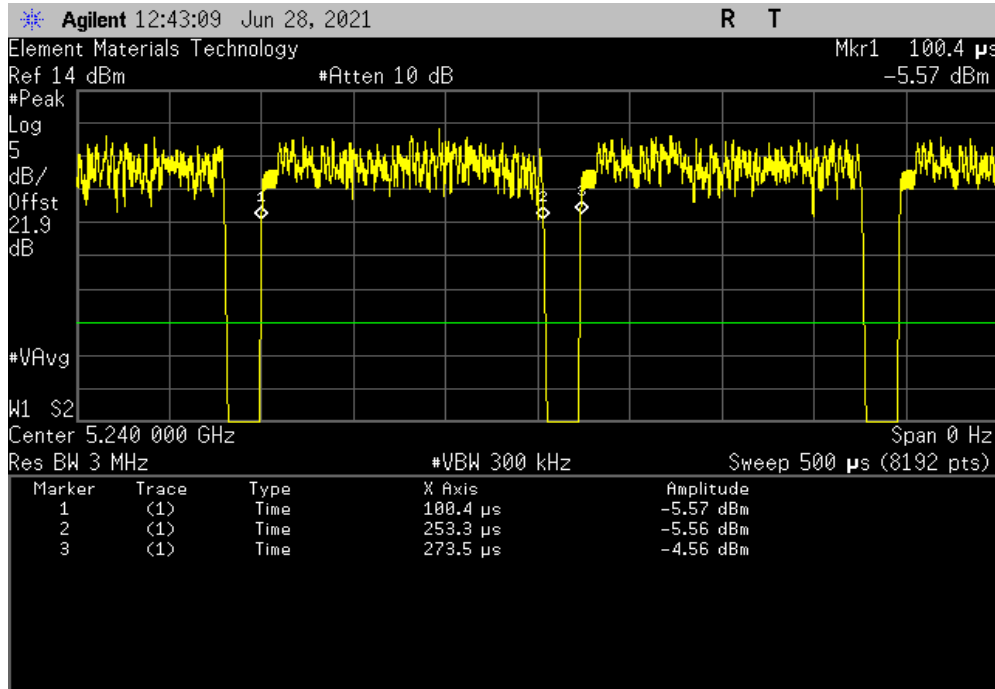


DUTY CYCLE - 5.2 GHz BAND

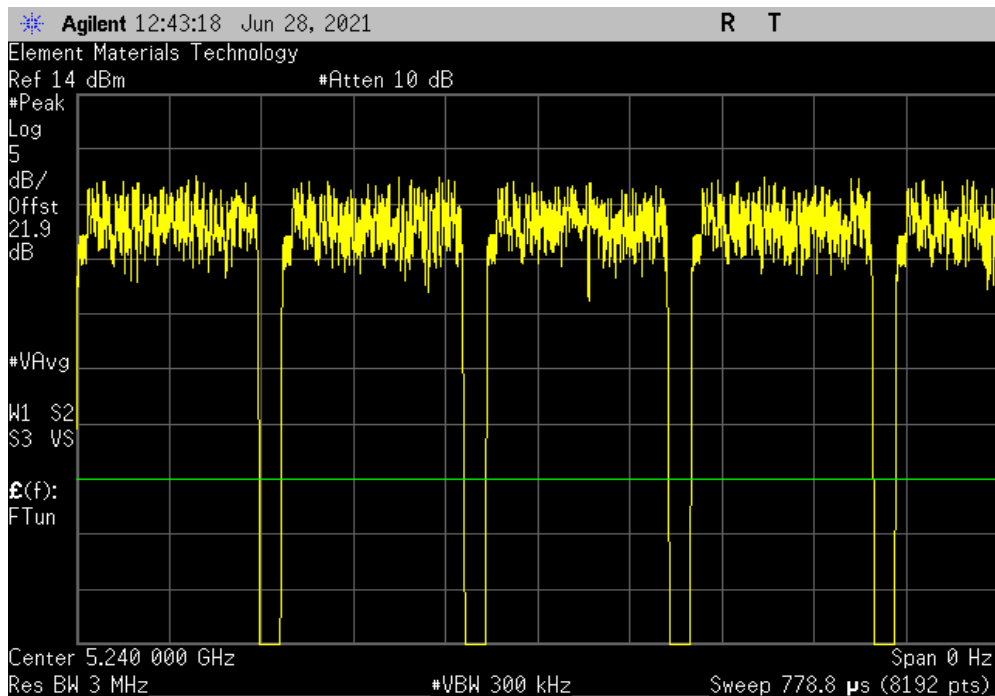


TMTx 2021.03.10.1 XMR 2020.12.30.0

20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 48, High Channel 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
152.877 us	173.06 us	1	88.3	N/A (N/A)	N/A	



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 48, High Channel 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

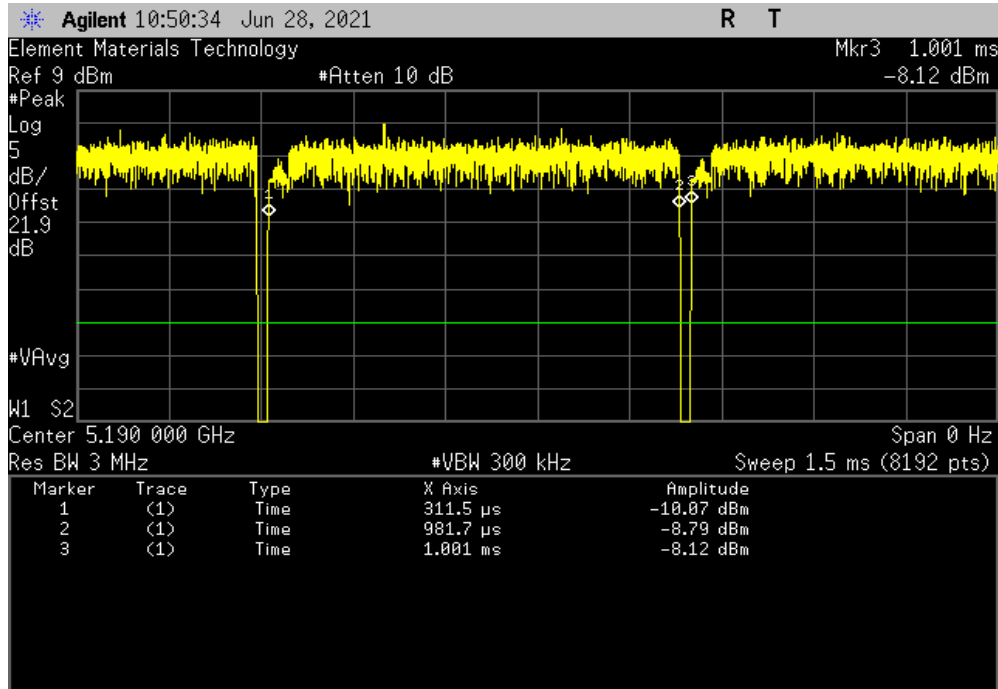


DUTY CYCLE - 5.2 GHz BAND

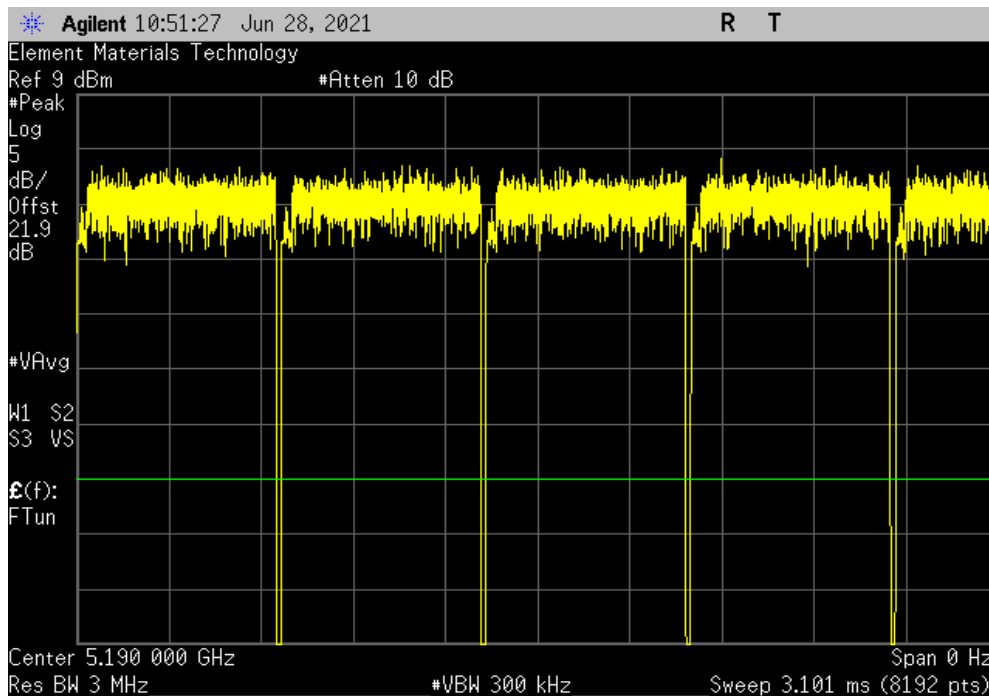


TMTx 2021.03.10.1 XMR 2020.12.30.0

40 MHz, 802.11(n) MCS0, Ch 36/40, Low Channel 5190 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
670.15 us	689.009 us	1	97.3	N/A (N/A)	N/A	



40 MHz, 802.11(n) MCS0, Ch 36/40, Low Channel 5190 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

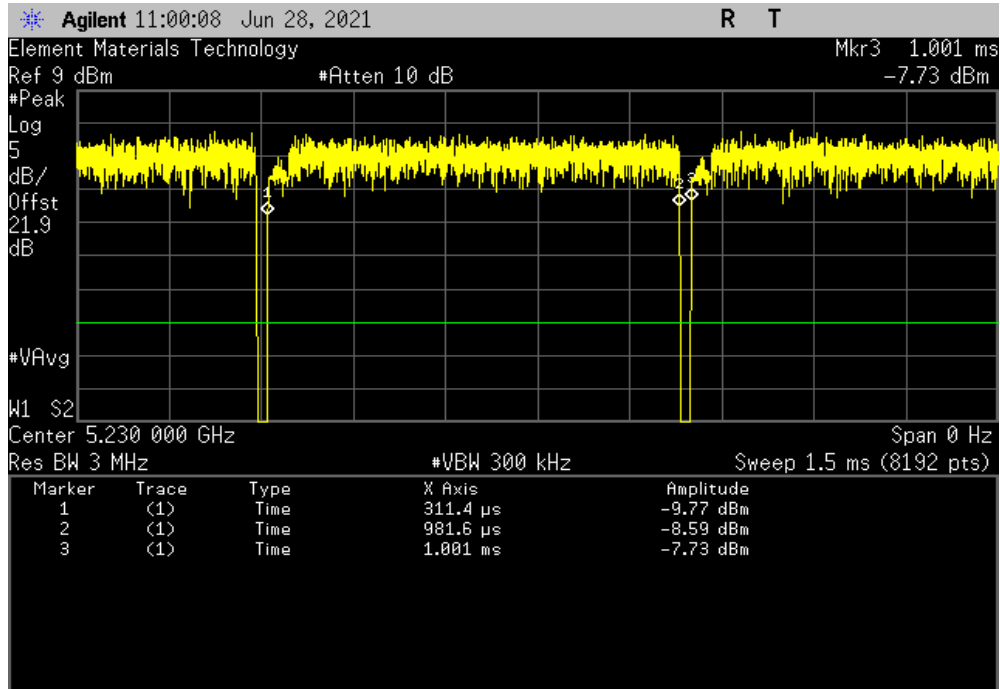


DUTY CYCLE - 5.2 GHz BAND

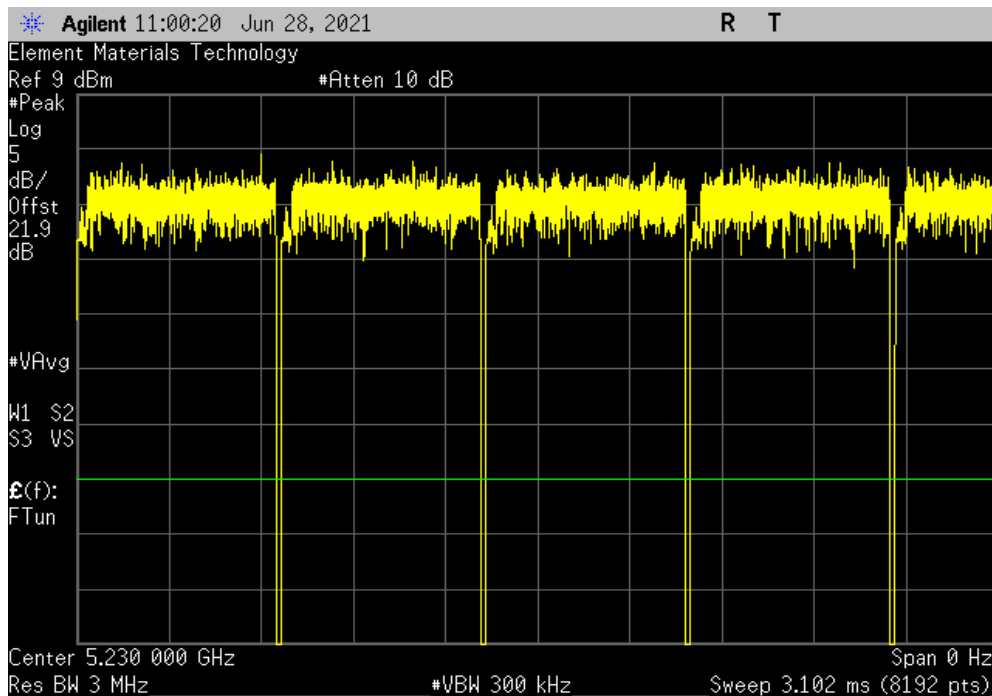


TMTx 2021.03.19.1 XMR 2020.12.30.0

40 MHz, 802.11(n) MCS0, Ch 44/48, High Channel 5230 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	670.297 us	689.338 us	1	97.2	N/A	N/A



40 MHz, 802.11(n) MCS0, Ch 44/48, High Channel 5230 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A (N/A)	Results
	N/A	N/A	5	N/A	N/A	N/A

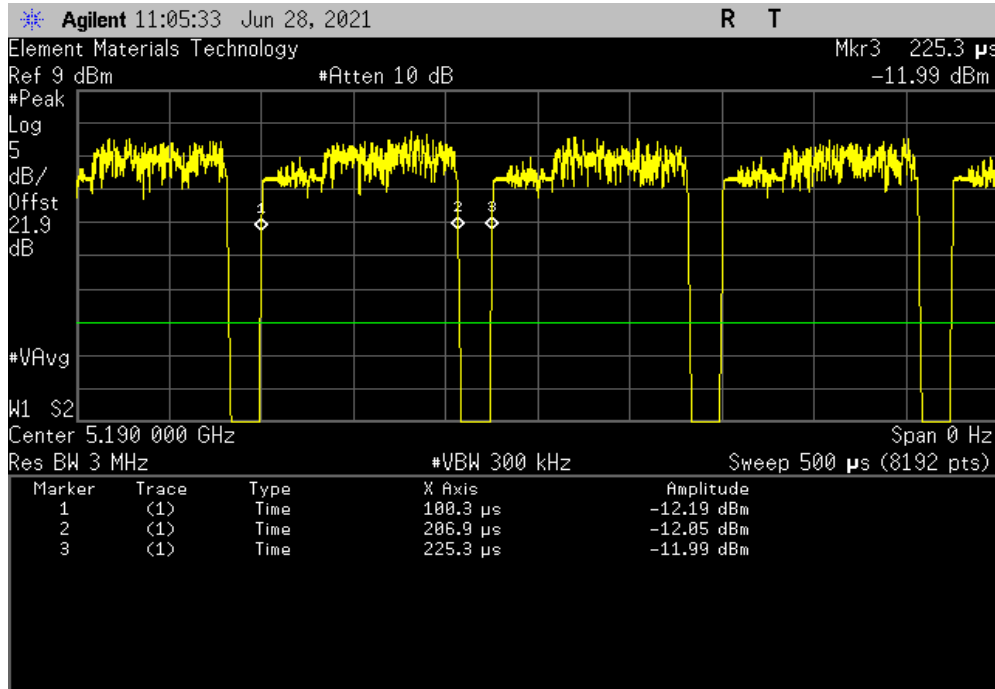


DUTY CYCLE - 5.2 GHZ BAND

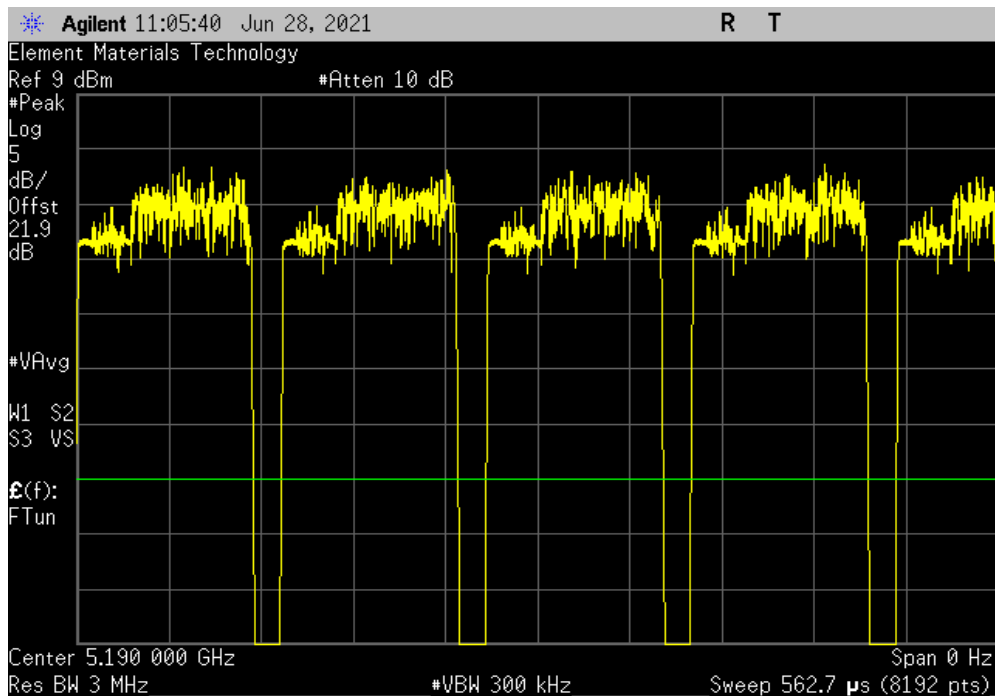


TbTx 2021.03.19.1 XMR 2020.12.30.0

40 MHz, 802.11(n) MCS7, Ch 36/40, Low Channel 5190 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
106.585 us	125.053 us	1	85.2	N/A (N/A)	N/A	



40 MHz, 802.11(n) MCS7, Ch 36/40, Low Channel 5190 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

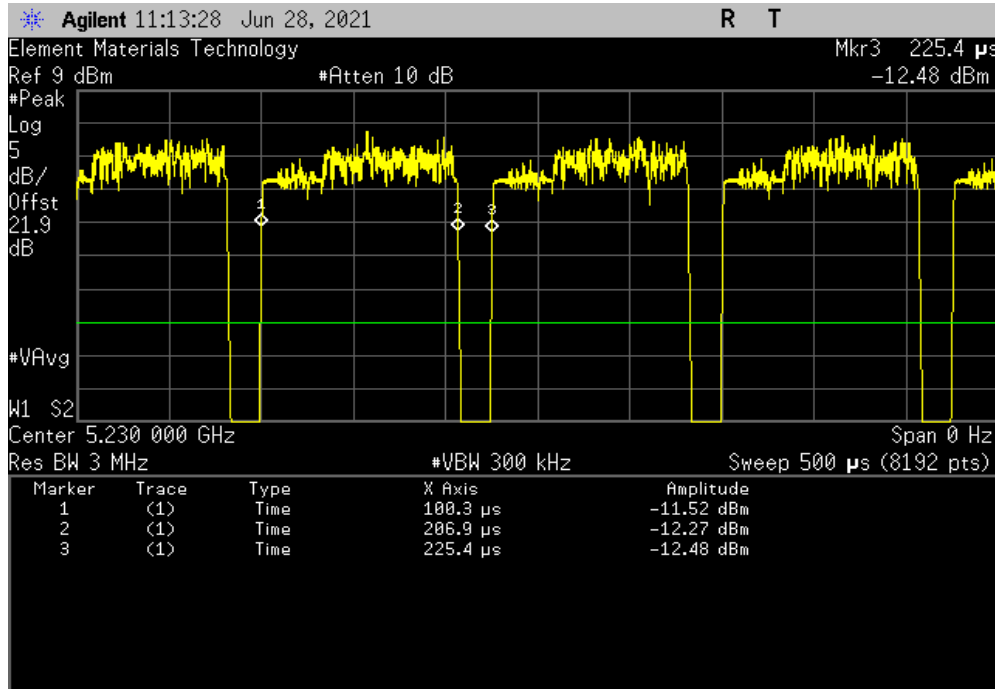


DUTY CYCLE - 5.2 GHz BAND

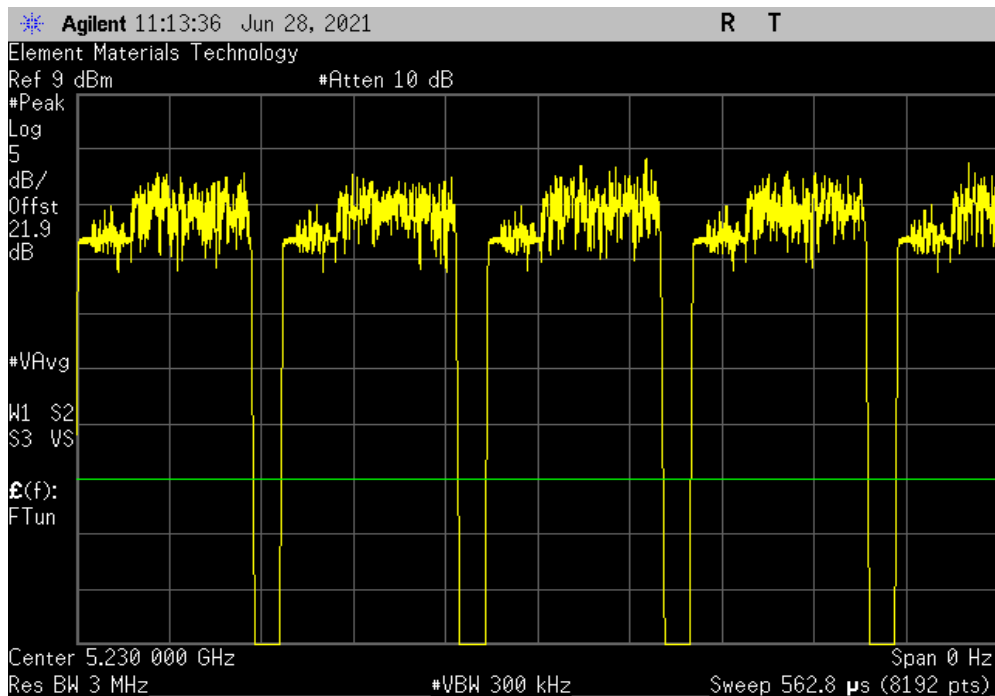


TbTx 2021.03.19.1 XMt 2020.12.30.0

40 MHz, 802.11(n) MCS7, Ch 44/48, High Channel 5230 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
106.524 us	125.075 us	1	85.2	N/A (N/A)	N/A	



40 MHz, 802.11(n) MCS7, Ch 44/48, High Channel 5230 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

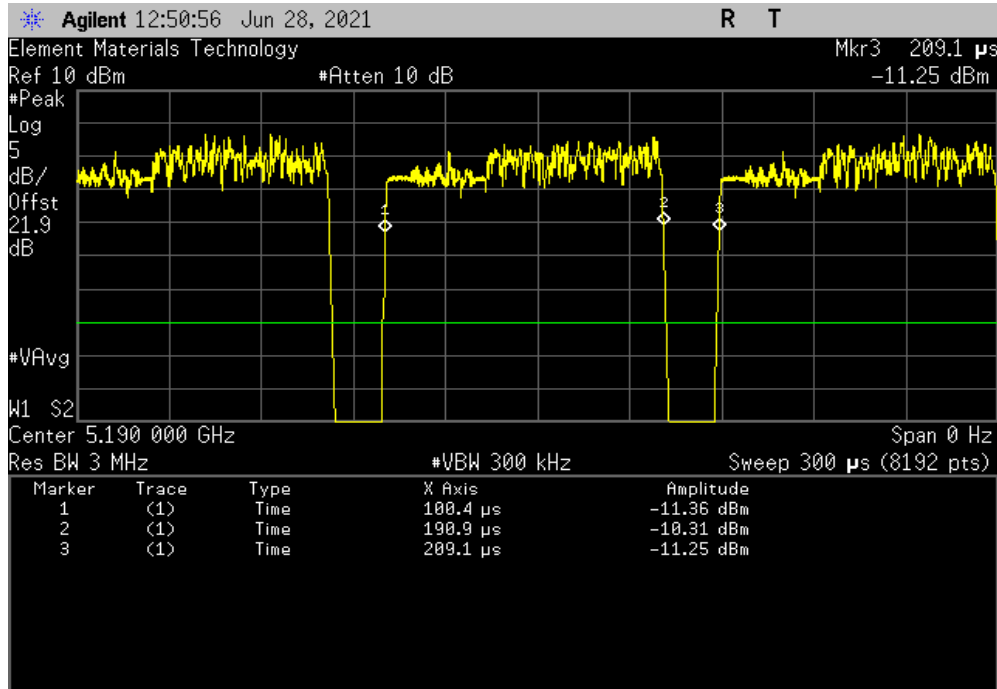


DUTY CYCLE - 5.2 GHz BAND

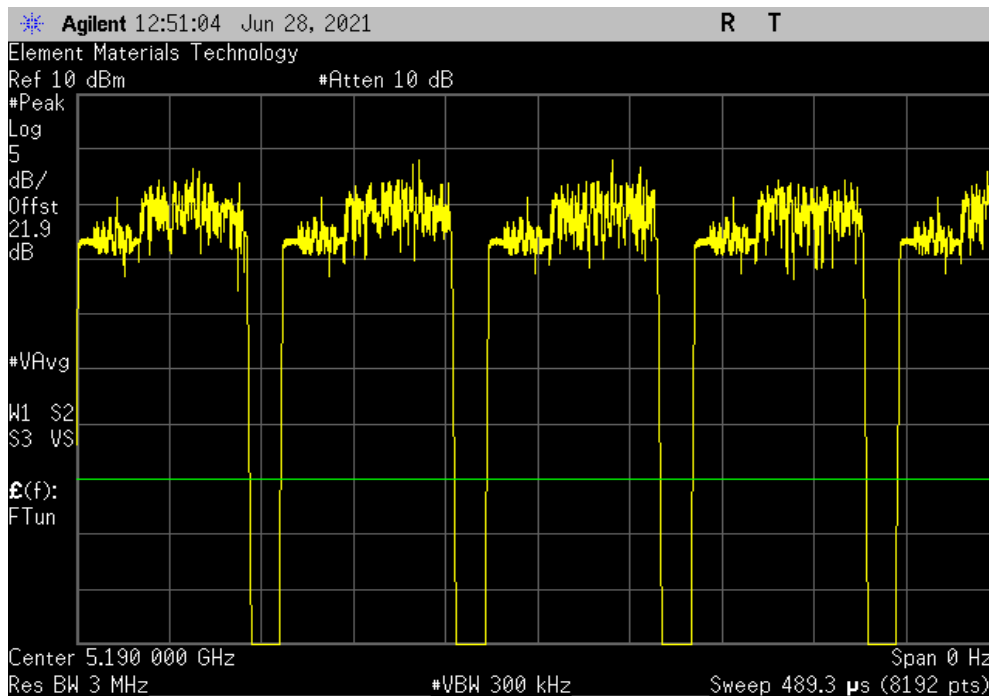


TMTx 2021.03.10.1 XMR 2020.12.30.0

40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 36/40, Low Channel 5190 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
90.566 us	108.739 us	1	83.3	N/A (N/A)	N/A	



40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 36/40, Low Channel 5190 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

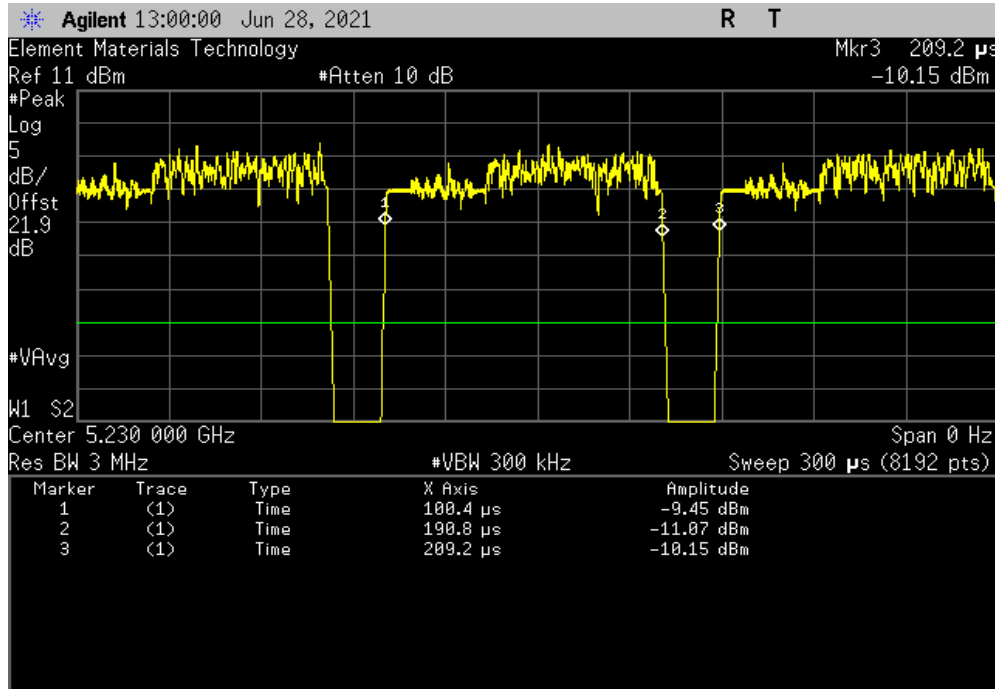


DUTY CYCLE - 5.2 GHZ BAND

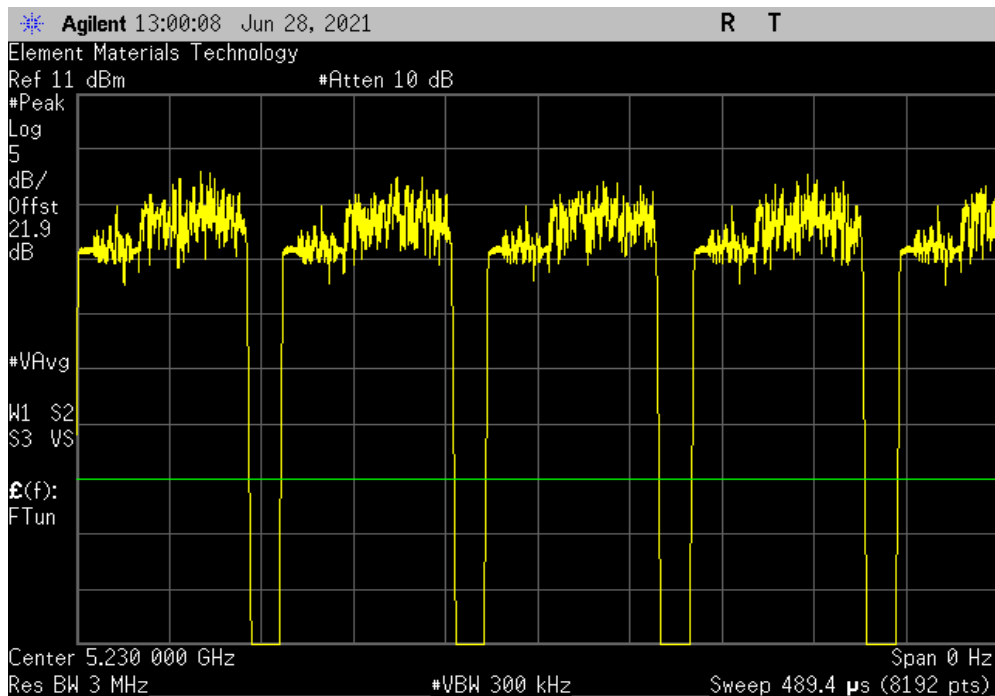


TbTx 2021.03.10.1 XMR 2020.12.30.0

40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 44/48, High Channel 5230 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
90.396 us	108.749 us	1	83.1	N/A (N/A)	N/A	



40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 44/48, High Channel 5230 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

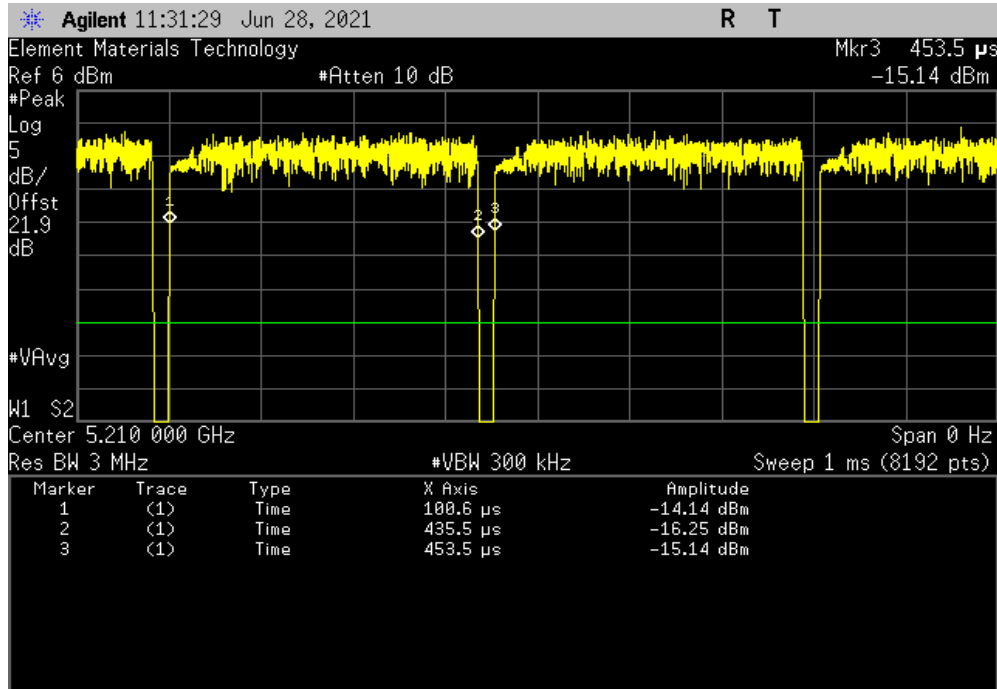


DUTY CYCLE - 5.2 GHz BAND

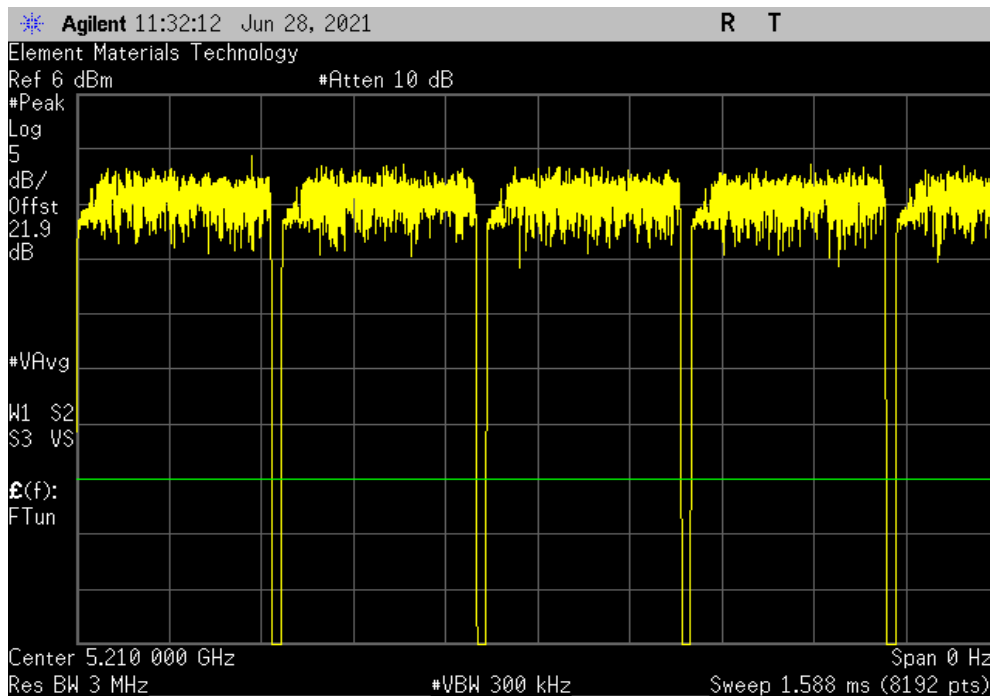


TbTx 2021.03.19.1 XMt 2020.12.30.0

80 MHz, 802.11(ac) MCS0, Ch 36-48, Low Channel 5210 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
334.9 us	352.9 us	1	94.9	N/A (N/A)	N/A	



80 MHz, 802.11(ac) MCS0, Ch 36-48, Low Channel 5210 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

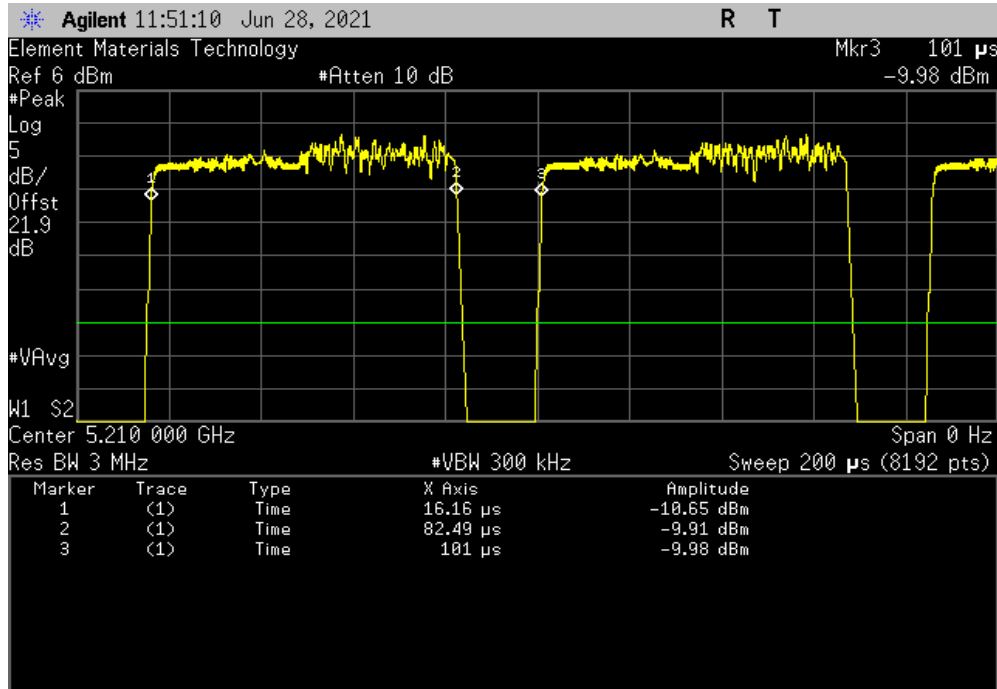


DUTY CYCLE - 5.2 GHZ BAND



TbTx 2021.03.19.1 XMR 2020.12.30.0

80 MHz, 802.11(ac) MCS9 (256-QAM), Ch 36-48, Low Channel 5210 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
66.337 us	84.818 us	1	78.2	N/A (N/A)	N/A	



80 MHz, 802.11(ac) MCS9 (256-QAM), Ch 36-48, Low Channel 5210 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A (N/A)	N/A	

