

SPURIOUS CONDUCTED EMISSIONS - BAND n25



XMIT 2020.03.25.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Generator - Signal	Agilent	N5173B	TIW	5-Jul-17	5-Jul-20
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-21

TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT through 4 different attenuation configurations which continues through to the RF input of the spectrum analyzer. Analyzer plots utilizing a resolution bandwidth called out by the client's test plan were made for each modulation type from 9 KHz to 22 GHz. The peak conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated to ensure they were less than the limits also called out by the client's test plan shown below.

The measurement methods are detailed in KDB971168 D01v03 section 6 and ANSI C63.26-2015.

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

These measurements are for frequency band after the first 1.0 MHz bands immediately outside and adjacent to the frequency block.

Per section FCC 24.238(a), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm for a 1 MHz measurement bandwidth. 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.

The limit for the 9kHz to 150kHz frequency range was adjusted to -49dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: $-49\text{dBm} = -19\text{dBm} - 10\log(1\text{MHz}/1\text{kHz})$]. The limit for the 150kHz to 20MHz frequency range was adjusted to -39dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: $-39\text{dBm} = -19\text{dBm} - 10\log(1\text{MHz}/10\text{kHz})$]. The required limit of -19dBm with a RBW of > 1MHz was used for all other frequency ranges.

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

5G NR carrier bandwidths of 5MHz, 10MHz, 15MHz, and 20MHz with QPSK, 16QAM, 64QAM and 256QAM modulation types were verified under this effort. The 5G NR carriers/modulation types for this testing are set up according to 3GPP TS 38.141-1 Test Models and are NR-FR1-TM 1.1 (QPSK modulation type), NR-FR1-TM 3.1 (16QAM modulation type), NR-FR1-TM 3.1 (64QAM modulation type), and NR-FR1-TM 3.1a (256QAM modulation type).

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TkTx 2020.06.06.0 BETA XMt 2020.03.25.0

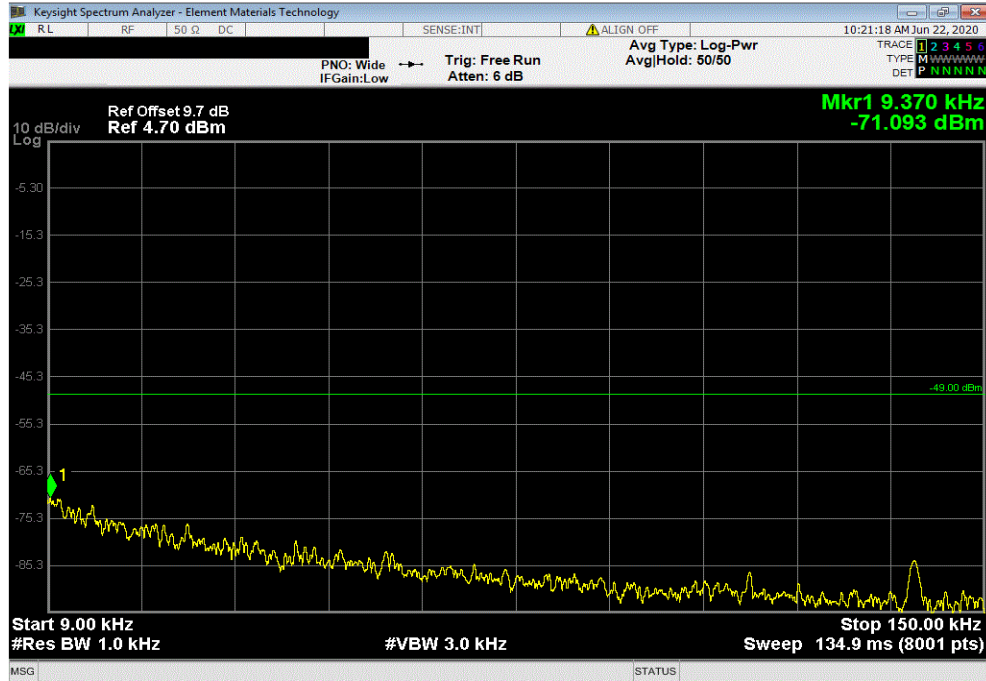
EUT: AHFIG		Work Order: NOKI0016				
Serial Number: K9191322351		Date: 22-Jun-20				
Customer: Nokia Solutions and Networks		Temperature: 22.3 °C				
Attendees: Mitchell Hill, John Rattanavong		Humidity: 51.8% RH				
Project: None		Barometric Pres.: 1015 mbar				
Tested by: Brandon Hobbs		Power: 54 VDC				
Job Site: TX05						
TEST SPECIFICATIONS		Test Method				
FCC 24E:2020		ANSI C63.26:2015				
COMMENTS						
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The carrier was set to maximum for all testing.						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	1,2,3,4	Signature 				
		Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
Port 4, Band n25, 1930 MHz - 1995 MHz						
5 MHz Bandwidth						
QPSK Modulation						
	Mid Channel 1962.5 MHz	9 kHz - 150 kHz	0.01	-71.09	-49	Pass
	Mid Channel 1962.5 MHz	150 kHz - 20 MHz	1.18	-54.86	-39	Pass
	Mid Channel 1962.5 MHz	20 MHz - 3 GHz	2622.66	-24.55	-19	Pass
	Mid Channel 1962.5 MHz	3 GHz - 10 GHz	5887.5	-38.02	-19	Pass
	Mid Channel 1962.5 MHz	10 GHz - 18 GHz	14316	-35.57	-19	Pass
	Mid Channel 1962.5 MHz	18 GHz - 22 GHz	21426	-26.12	-19	Pass
16-QAM Modulation						
	Mid Channel 1962.5 MHz	9 kHz - 150 kHz	0.01	-71.38	-49	Pass
	Mid Channel 1962.5 MHz	150 kHz - 20 MHz	1.18	-55.02	-39	Pass
	Mid Channel 1962.5 MHz	20 MHz - 3 GHz	2772.78	-25.49	-19	Pass
	Mid Channel 1962.5 MHz	3 GHz - 10 GHz	3924.88	-37.51	-19	Pass
	Mid Channel 1962.5 MHz	10 GHz - 18 GHz	14432	-36.26	-19	Pass
	Mid Channel 1962.5 MHz	18 GHz - 22 GHz	21766	-25.45	-19	Pass
64-QAM Modulation						
	Mid Channel 1962.5 MHz	9 kHz - 150 kHz	0.01	-69.63	-49	Pass
	Mid Channel 1962.5 MHz	150 kHz - 20 MHz	1.18	-54.81	-39	Pass
	Mid Channel 1962.5 MHz	20 MHz - 3 GHz	2671.83	-24.54	-19	Pass
	Mid Channel 1962.5 MHz	3 GHz - 10 GHz	3887.25	-38.23	-19	Pass
	Mid Channel 1962.5 MHz	10 GHz - 18 GHz	15430	-36.47	-19	Pass
	Mid Channel 1962.5 MHz	18 GHz - 22 GHz	21765	-26.37	-19	Pass
256-QAM Modulation						
	Mid Channel 1962.5 MHz	9 kHz - 150 kHz	0.01	-70.54	-49	Pass
	Mid Channel 1962.5 MHz	150 kHz - 20 MHz	1.18	-54.87	-39	Pass
	Mid Channel 1962.5 MHz	20 MHz - 3 GHz	2622.29	-24.81	-19	Pass
	Mid Channel 1962.5 MHz	3 GHz - 10 GHz	3772.63	-37.45	-19	Pass
	Mid Channel 1962.5 MHz	10 GHz - 18 GHz	14371	-35.96	-19	Pass
	Mid Channel 1962.5 MHz	18 GHz - 22 GHz	21849.5	-26.13	-19	Pass
10 MHz Bandwidth						
256-QAM Modulation						
	Mid Channel 1962.5 MHz	9 kHz - 150 kHz	0.01	-69.81	-49	Pass
	Mid Channel 1962.5 MHz	150 kHz - 20 MHz	1.18	-54.95	-39	Pass
	Mid Channel 1962.5 MHz	20 MHz - 3 GHz	2604.03	-24.84	-19	Pass
	Mid Channel 1962.5 MHz	3 GHz - 10 GHz	3859.25	-38.32	-19	Pass
	Mid Channel 1962.5 MHz	10 GHz - 18 GHz	13809	-35.81	-19	Pass
	Mid Channel 1962.5 MHz	18 GHz - 22 GHz	21638	-25.37	-19	Pass
15 MHz Bandwidth						
256-QAM Modulation						
	Mid Channel 1962.5 MHz	9 kHz - 150 kHz	0.01	-71.26	-49	Pass
	Mid Channel 1962.5 MHz	150 kHz - 20 MHz	12.57	-54.75	-39	Pass
	Mid Channel 1962.5 MHz	20 MHz - 3 GHz	2734.04	-24.36	-19	Pass
	Mid Channel 1962.5 MHz	3 GHz - 10 GHz	3798	-37.43	-19	Pass
	Mid Channel 1962.5 MHz	10 GHz - 18 GHz	14897	-35.97	-19	Pass
	Mid Channel 1962.5 MHz	18 GHz - 22 GHz	19434	-26.36	-19	Pass
20 MHz Bandwidth						
256-QAM Modulation						
	Mid Channel 1962.5 MHz	9 kHz - 150 kHz	0.01	-71.03	-49	Pass
	Mid Channel 1962.5 MHz	150 kHz - 20 MHz	12.55	-54.63	-39	Pass
	Mid Channel 1962.5 MHz	20 MHz - 3 GHz	2626.76	-24.63	-19	Pass
	Mid Channel 1962.5 MHz	3 GHz - 10 GHz	3784.88	-38.38	-19	Pass
	Mid Channel 1962.5 MHz	10 GHz - 18 GHz	15656	-35.61	-19	Pass
	Mid Channel 1962.5 MHz	18 GHz - 22 GHz	21820	-26.18	-19	Pass

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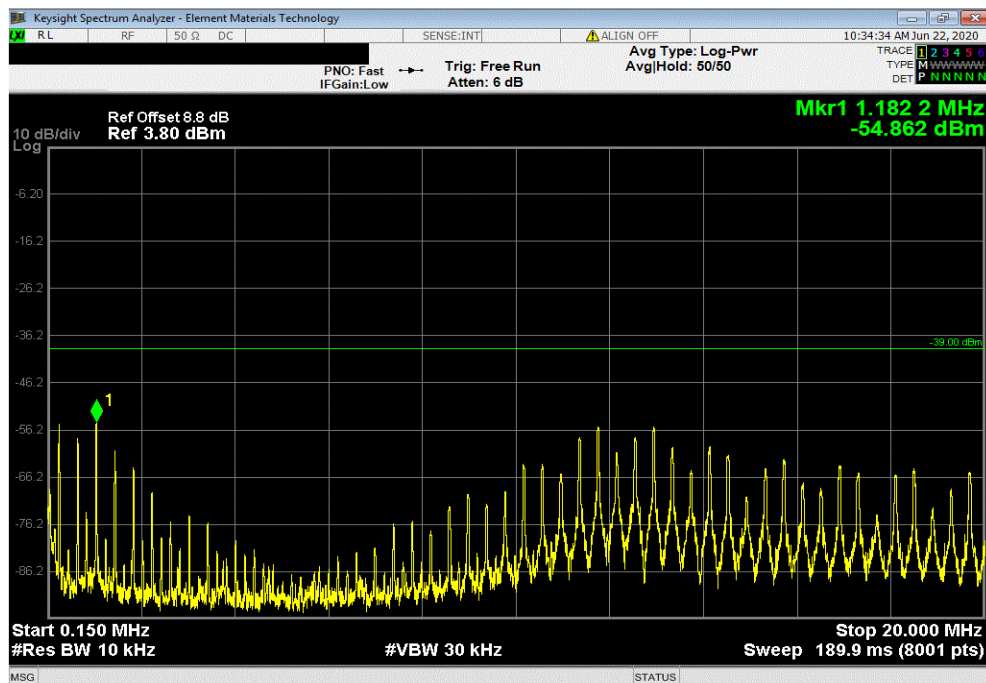


TbTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
9 kHz - 150 kHz	0.01	-71.09	-49	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
150 kHz - 20 MHz	1.18	-54.86	-39	Pass	

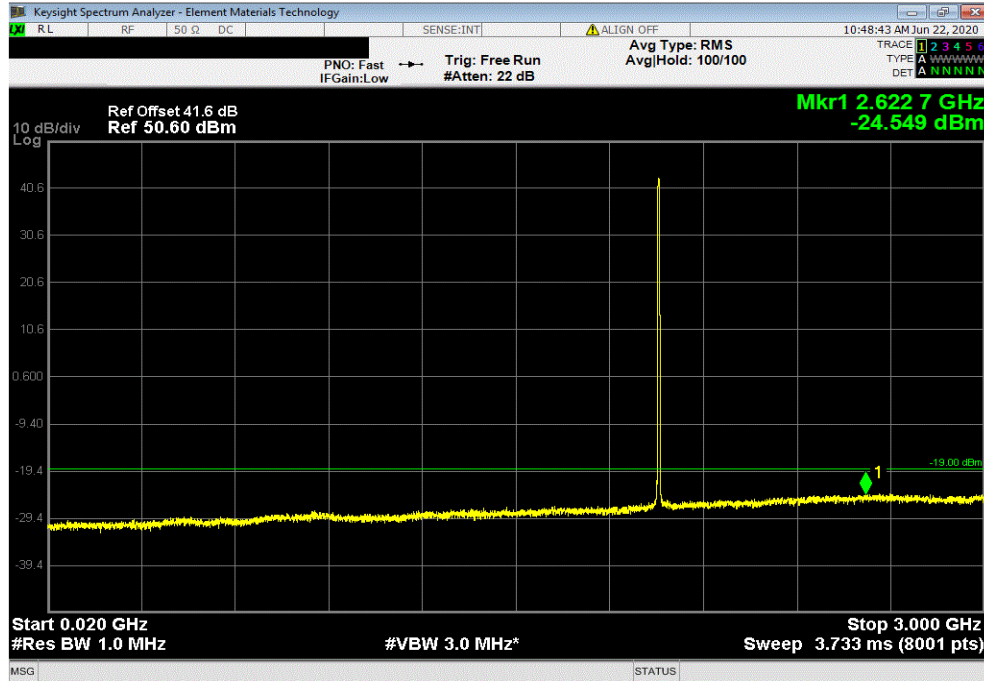


SPURIOUS CONDUCTED EMISSIONS - BAND n25

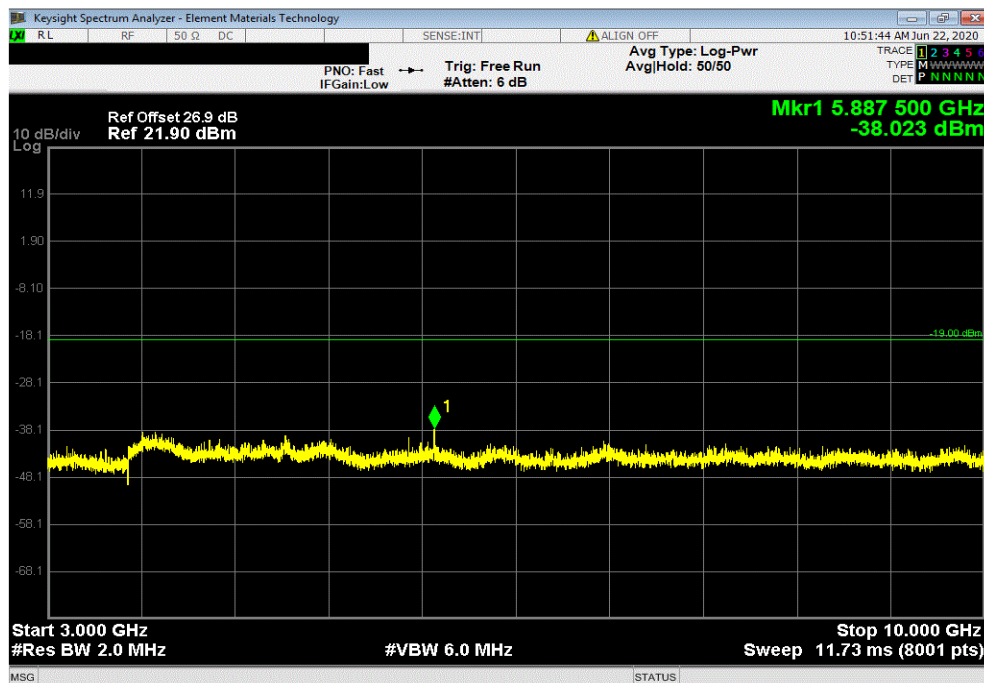


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
20 MHz - 3 GHz	2622.66	-24.55	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
3 GHz - 10 GHz	5887.5	-38.02	-19	Pass	

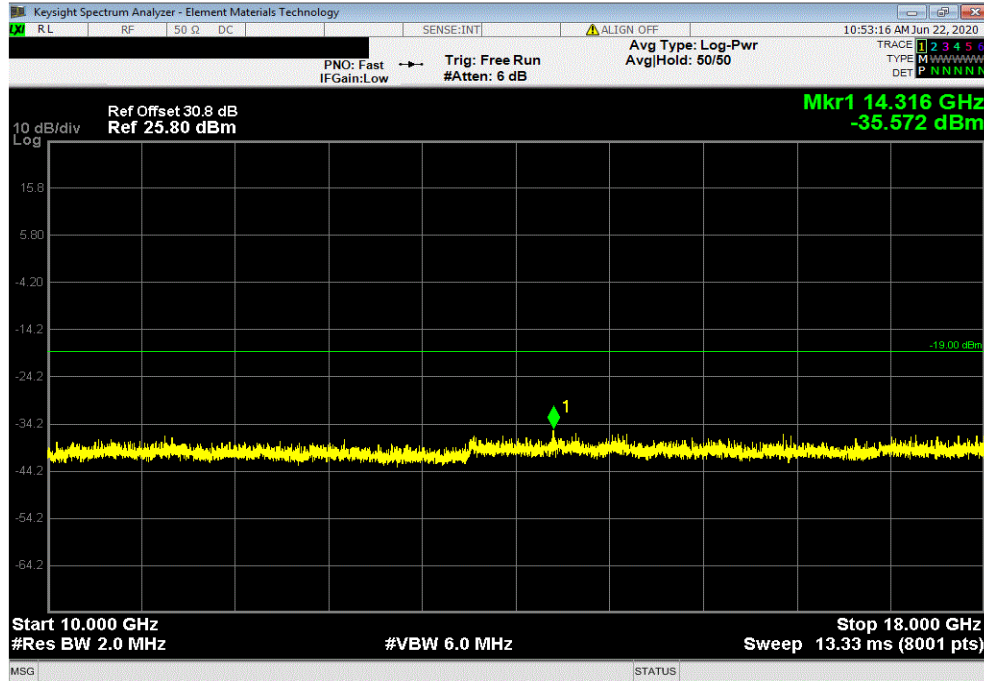


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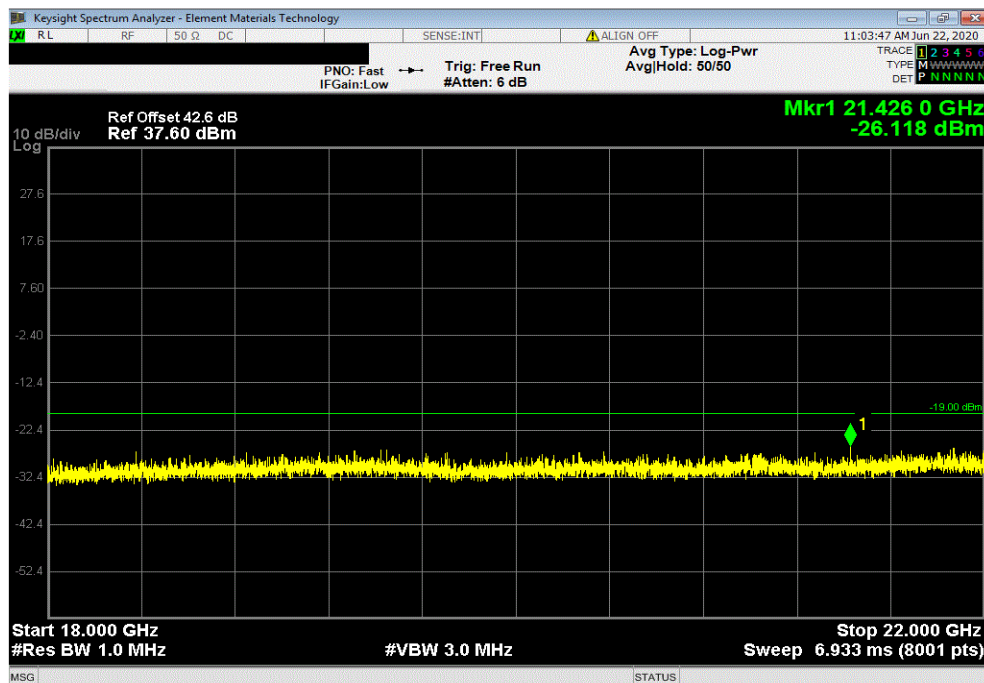


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
10 GHz - 18 GHz	14316	-35.57	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
18 GHz - 22 GHz	21426	-26.12	-19	Pass	

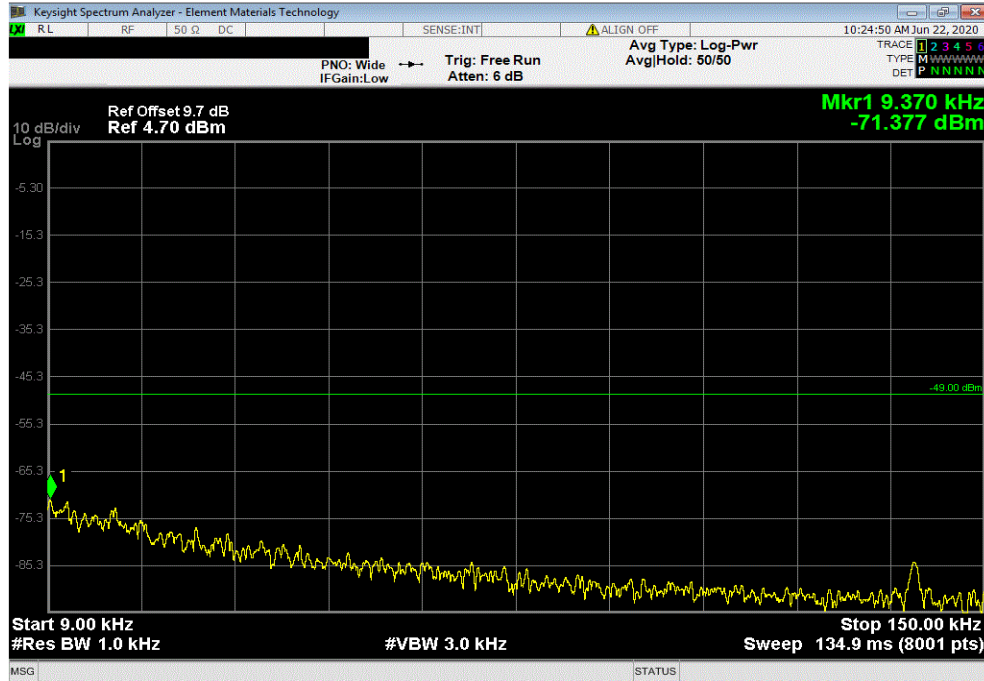


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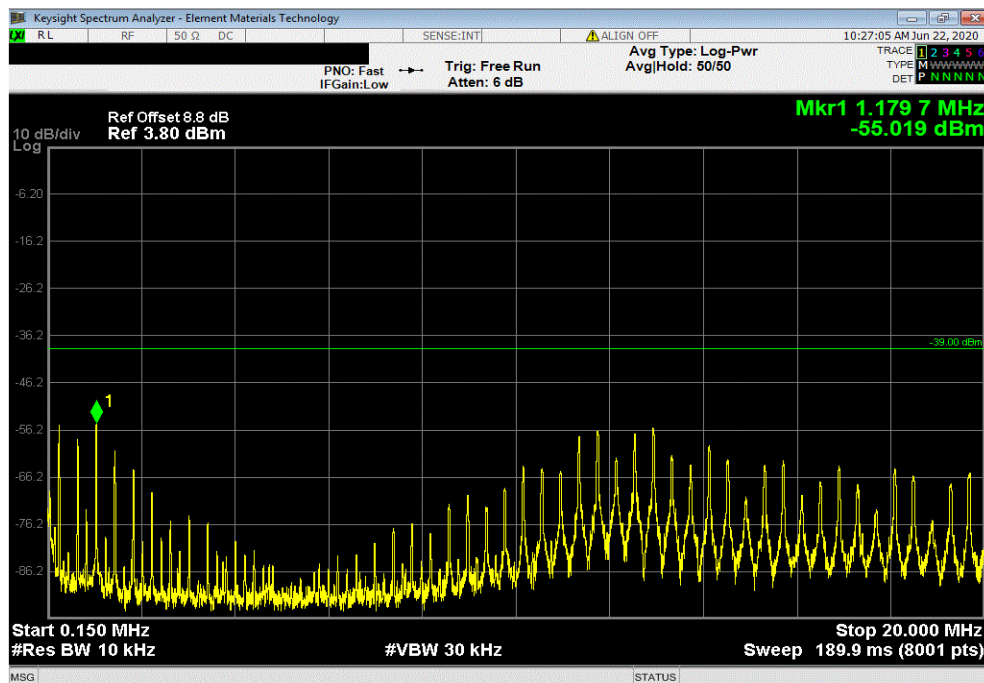


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Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
9 kHz - 150 kHz	0.01	-71.38	-49	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
150 kHz - 20 MHz	1.18	-55.02	-39	Pass	

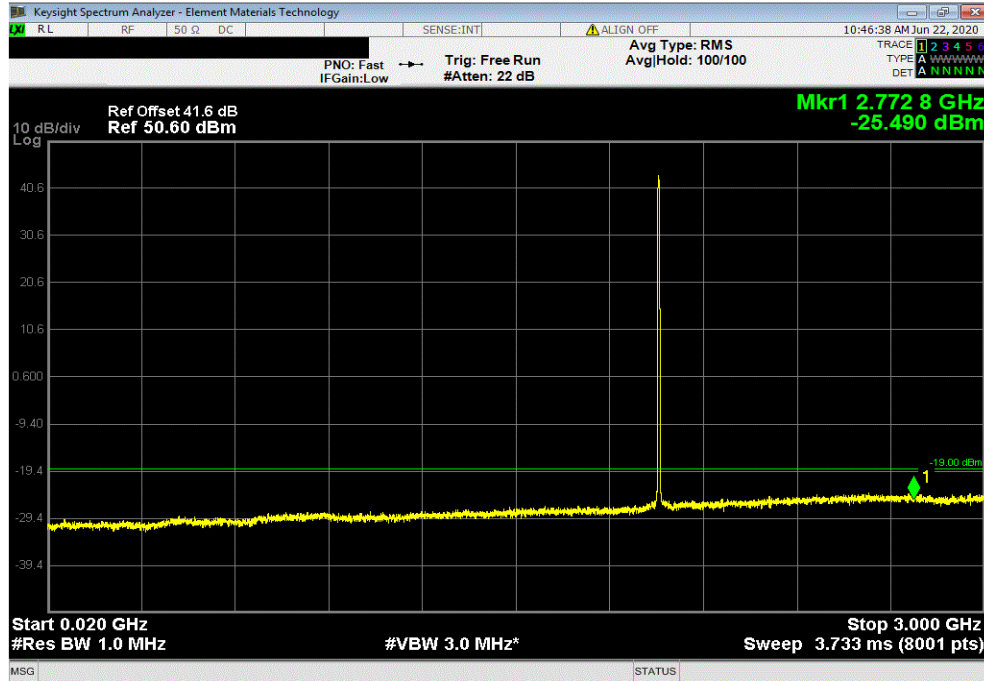


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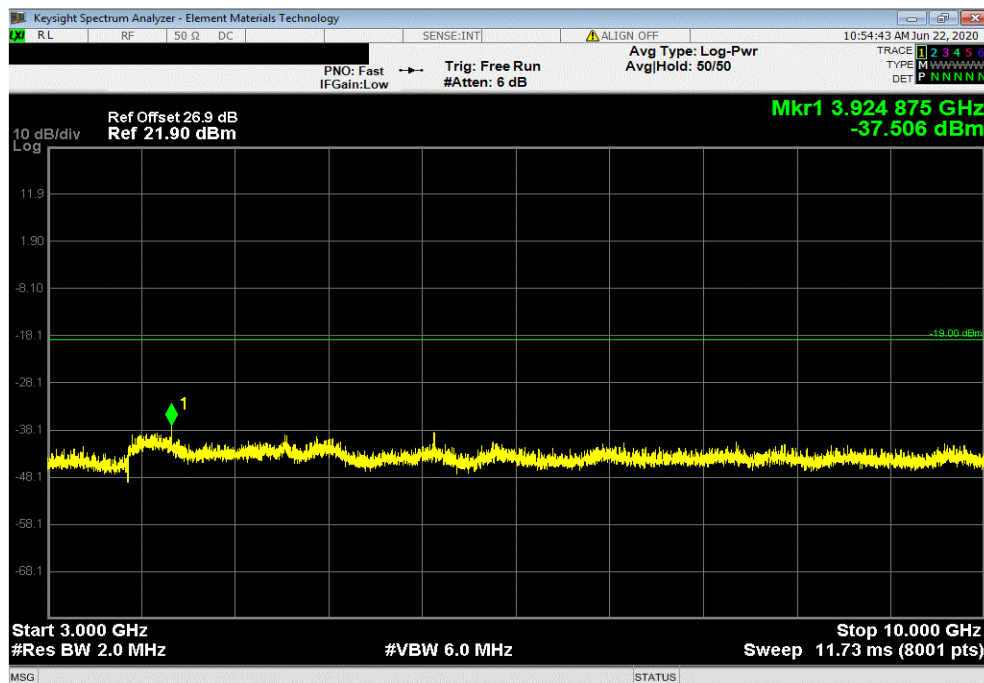


TbTx 2020.06.08.0 BETA XMit 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
20 MHz - 3 GHz	2772.78	-25.49	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
3 GHz - 10 GHz	3924.88	-37.51	-19	Pass	

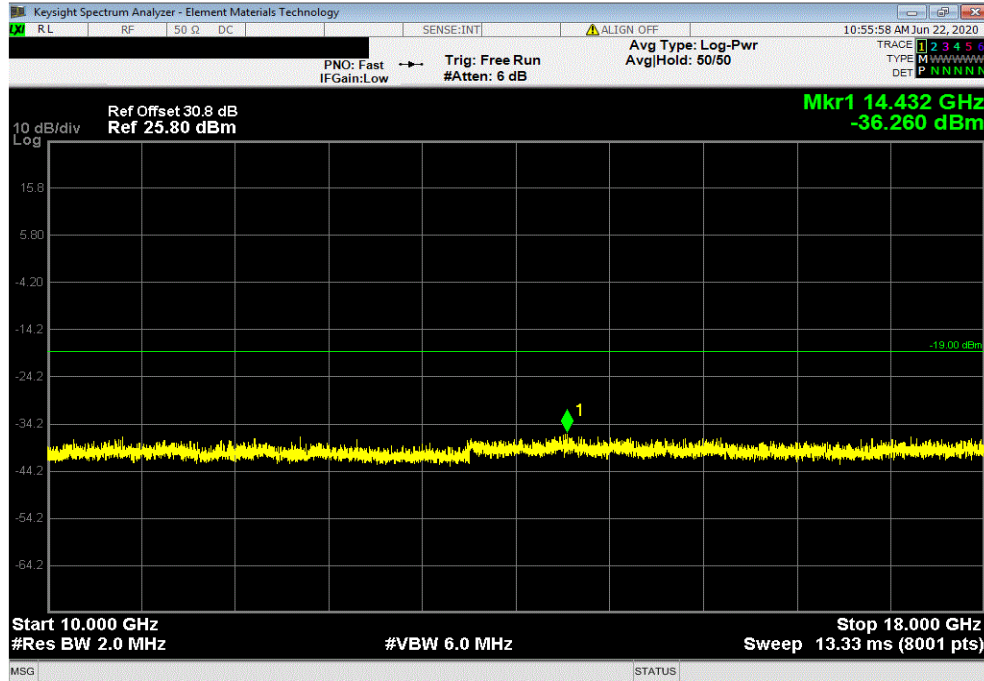


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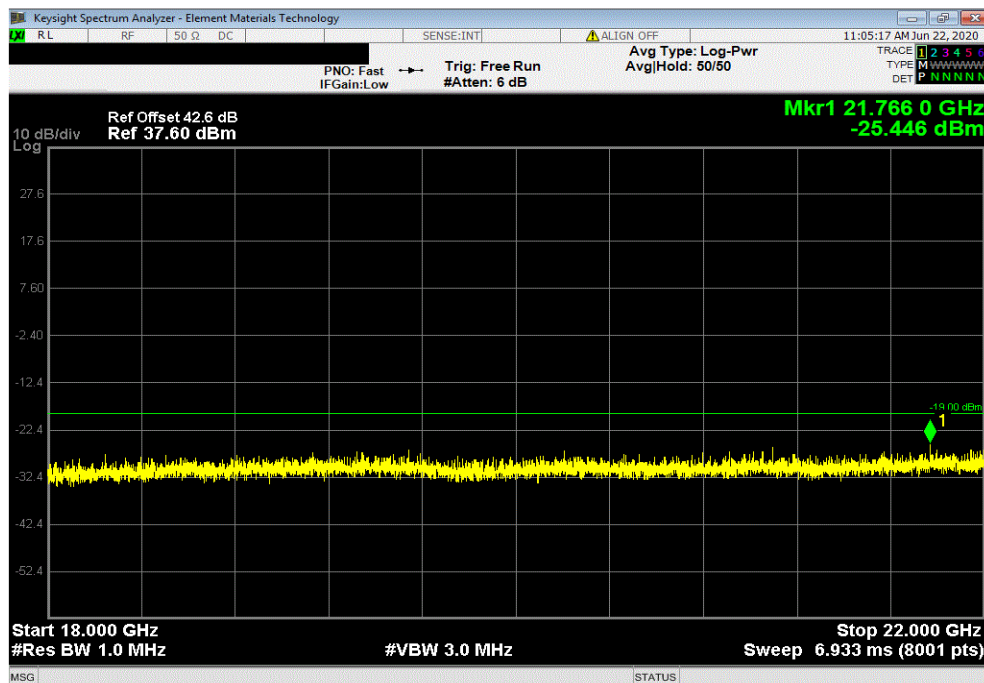


TMTx 2020.06.08.0 BETA XMit 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
10 GHz - 18 GHz	14432	-36.26	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
18 GHz - 22 GHz	21766	-25.45	-19	Pass	

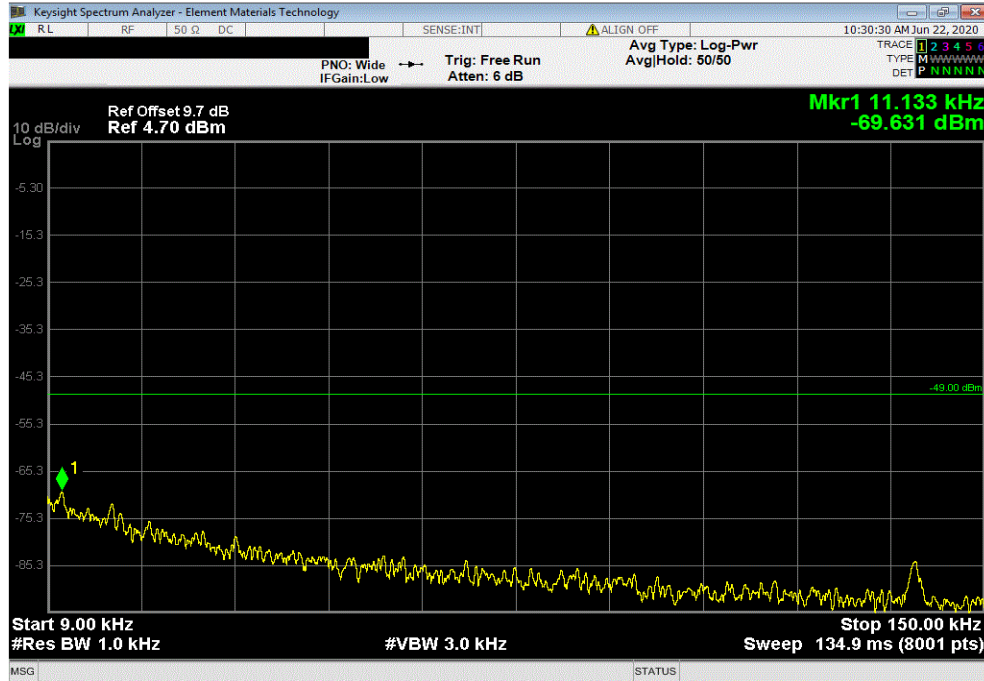


SPURIOUS CONDUCTED EMISSIONS - BAND n25

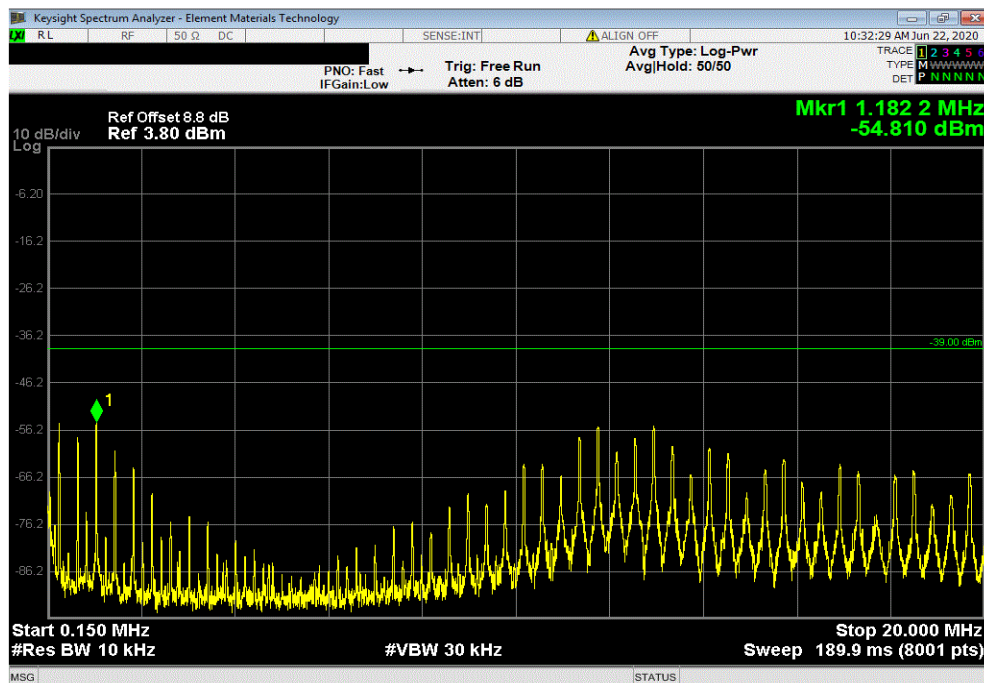


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
9 kHz - 150 kHz	0.01	-69.63	-49	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
150 kHz - 20 MHz	1.18	-54.81	-39	Pass	

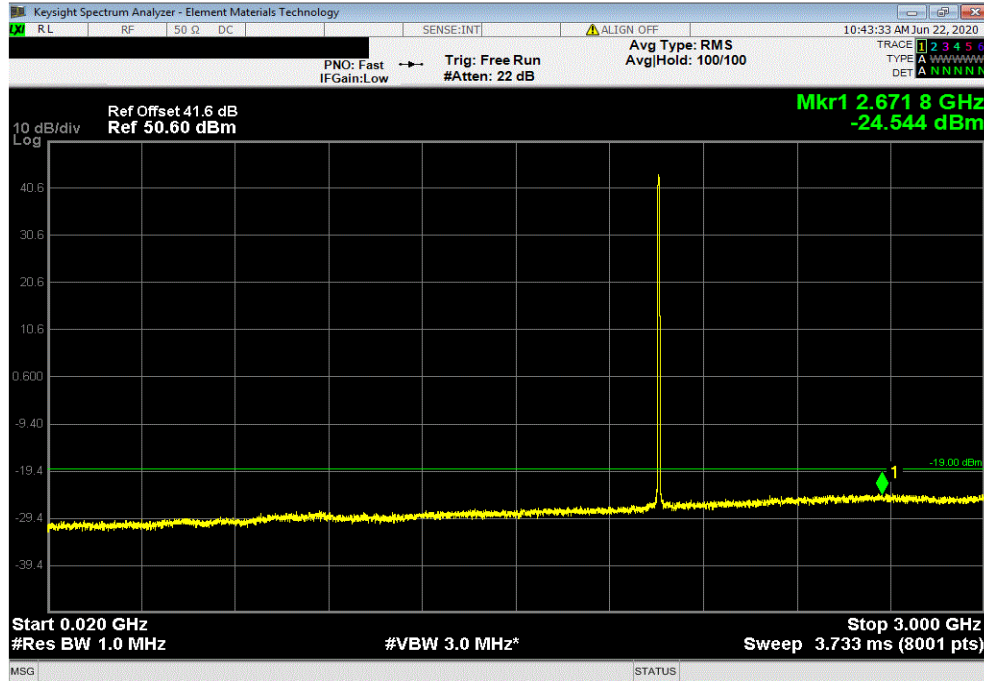


SPURIOUS CONDUCTED EMISSIONS - BAND n25

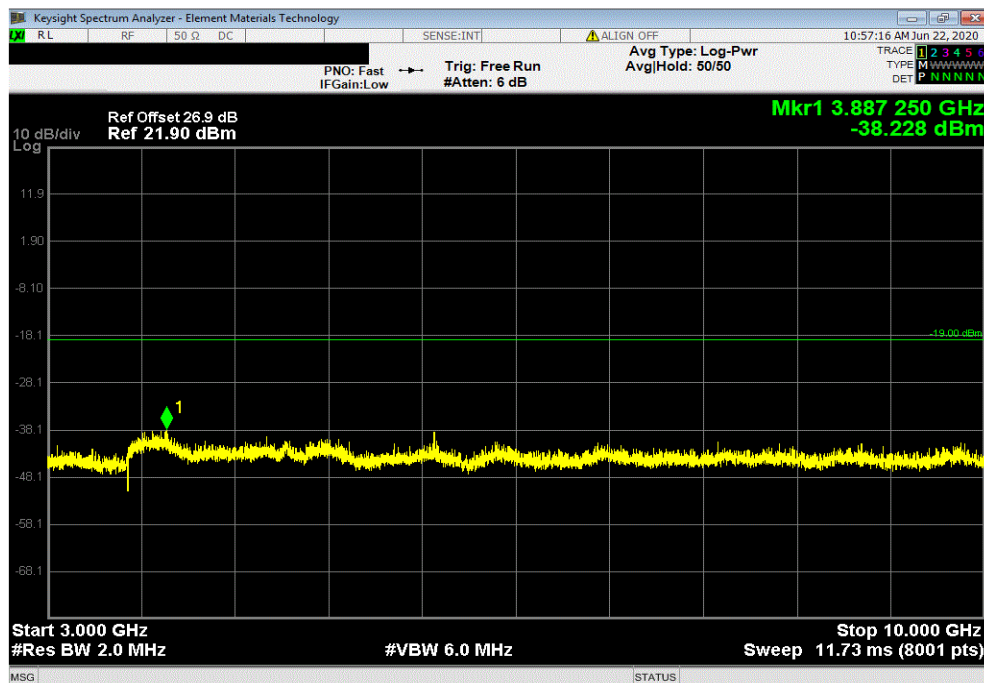


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
20 MHz - 3 GHz	2671.83	-24.54	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
3 GHz - 10 GHz	3887.25	-38.23	-19	Pass	

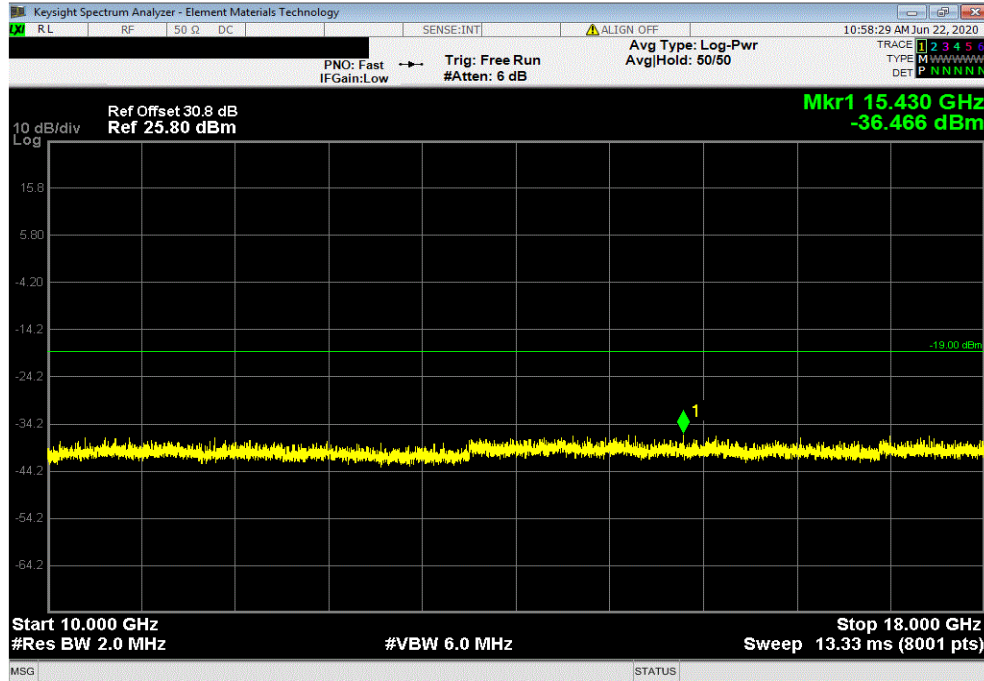


SPURIOUS CONDUCTED EMISSIONS - BAND n25

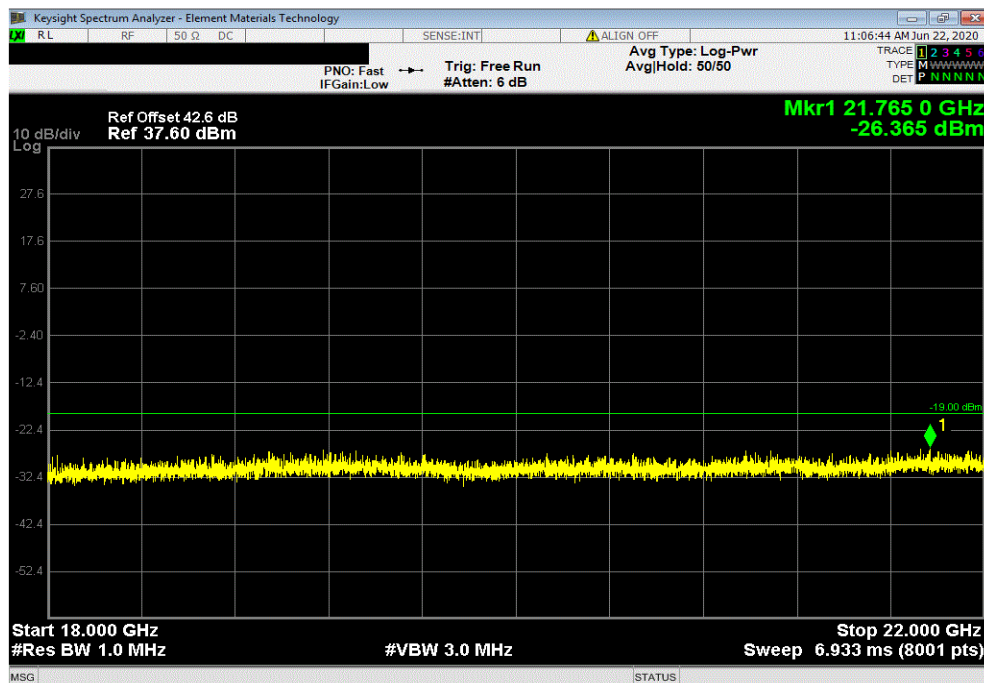


TbTx 2020.06.08.0 BETA XMit 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
10 GHz - 18 GHz	15430	-36.47	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
18 GHz - 22 GHz	21765	-26.37	-19	Pass	

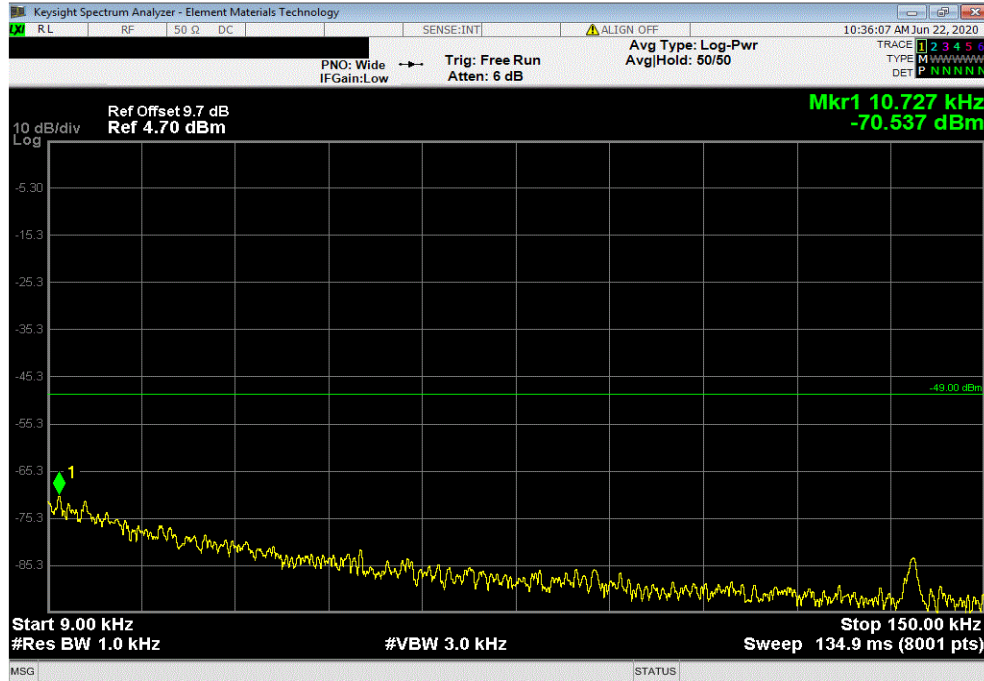


SPURIOUS CONDUCTED EMISSIONS - BAND n25

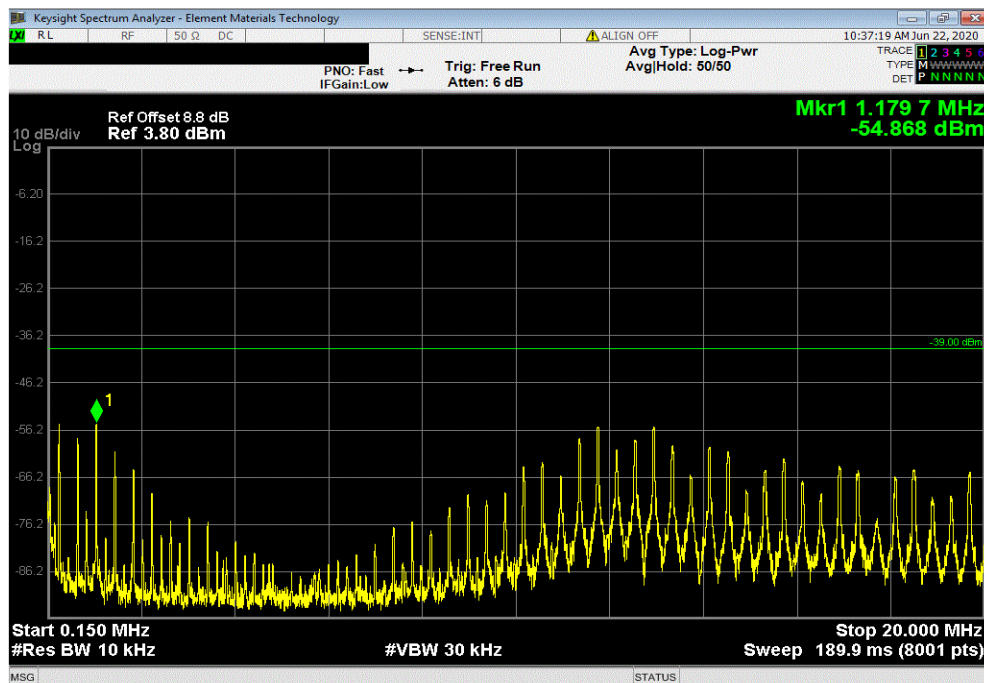


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
9 kHz - 150 kHz	0.01	-70.54	-49	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
150 kHz - 20 MHz	1.18	-54.87	-39	Pass	

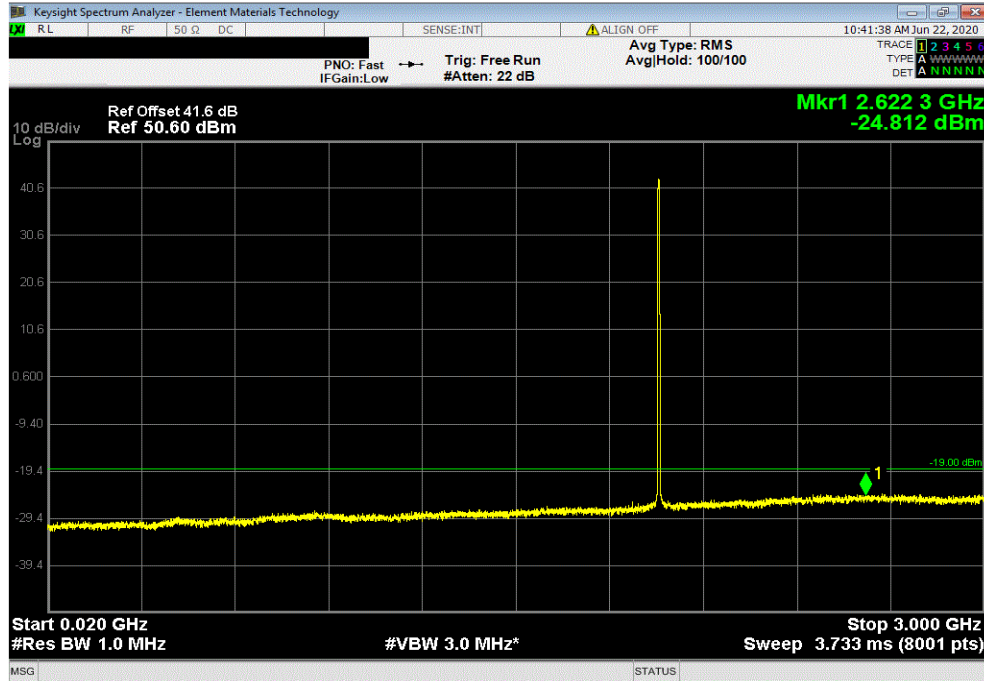


SPURIOUS CONDUCTED EMISSIONS - BAND n25

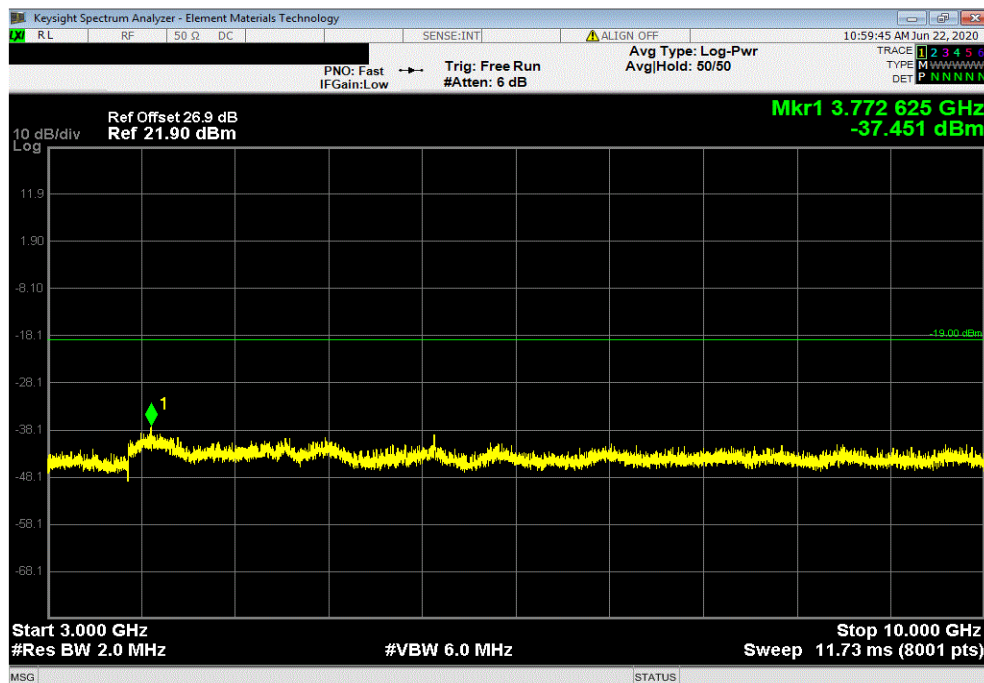


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
20 MHz - 3 GHz	2622.29	-24.81	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
3 GHz - 10 GHz	3772.63	-37.45	-19	Pass	

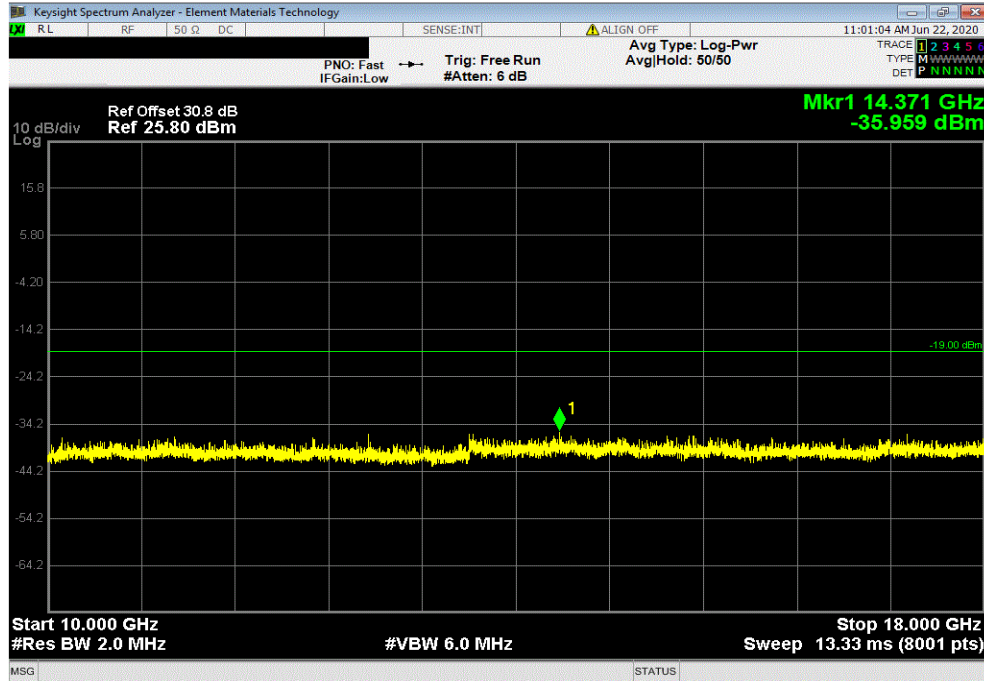


SPURIOUS CONDUCTED EMISSIONS - BAND n25

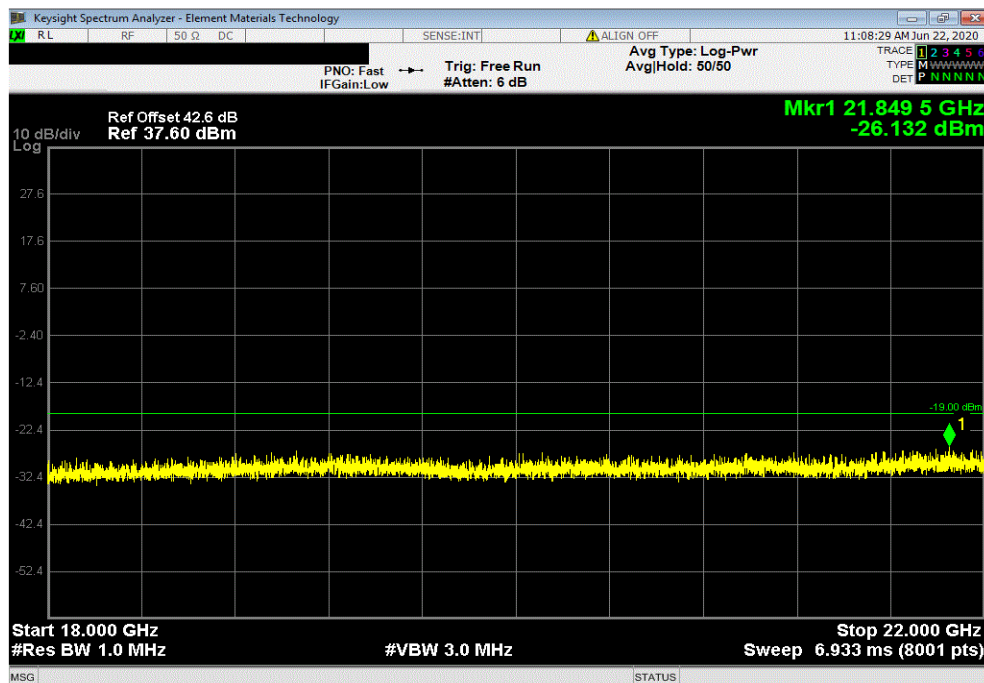


TMTx 2020.06.08.0 BETA XMit 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
10 GHz - 18 GHz	14371	-35.96	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
18 GHz - 22 GHz	21849.5	-26.13	-19	Pass	

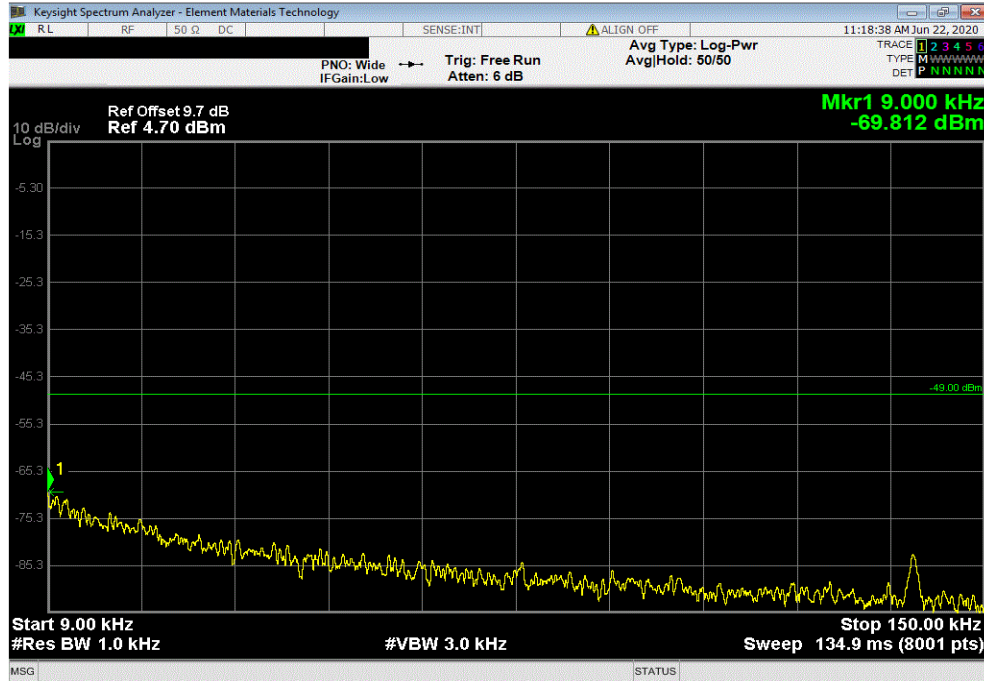


SPURIOUS CONDUCTED EMISSIONS - BAND n25

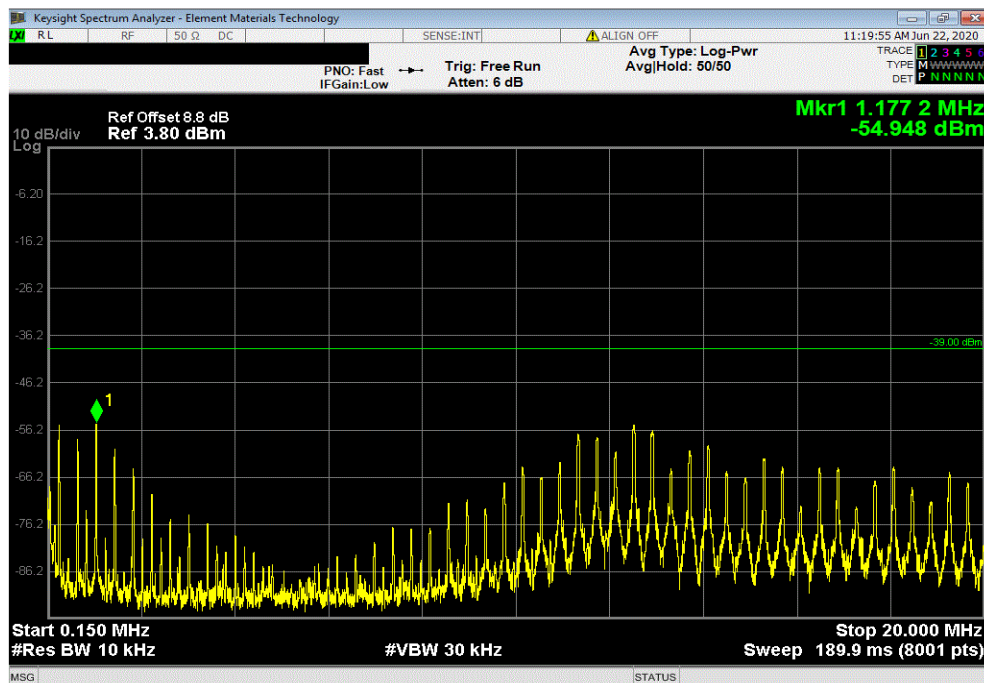


TbTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
9 kHz - 150 kHz	0.01	-69.81	-49	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
150 kHz - 20 MHz	1.18	-54.95	-39	Pass	

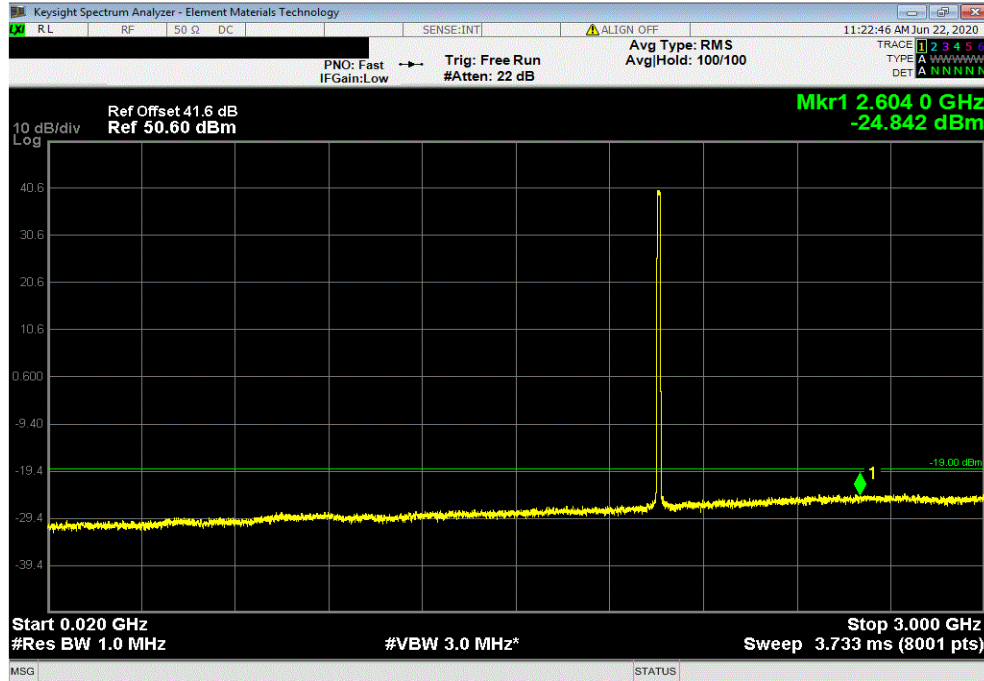


SPURIOUS CONDUCTED EMISSIONS - BAND n25

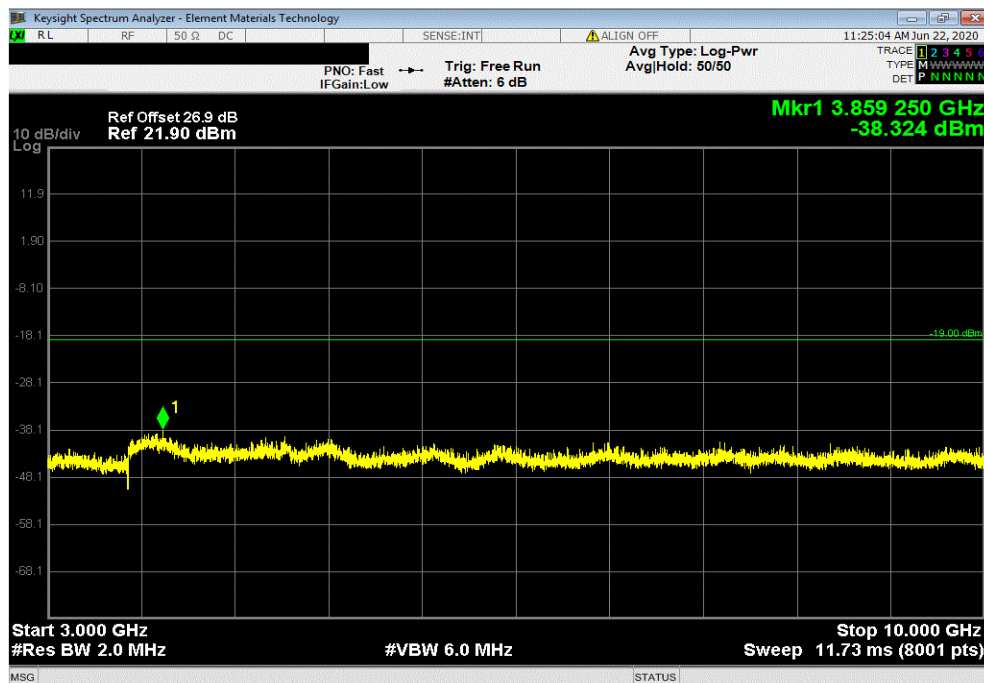


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
20 MHz - 3 GHz	2604.03	-24.84	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
3 GHz - 10 GHz	3859.25	-38.32	-19	Pass	

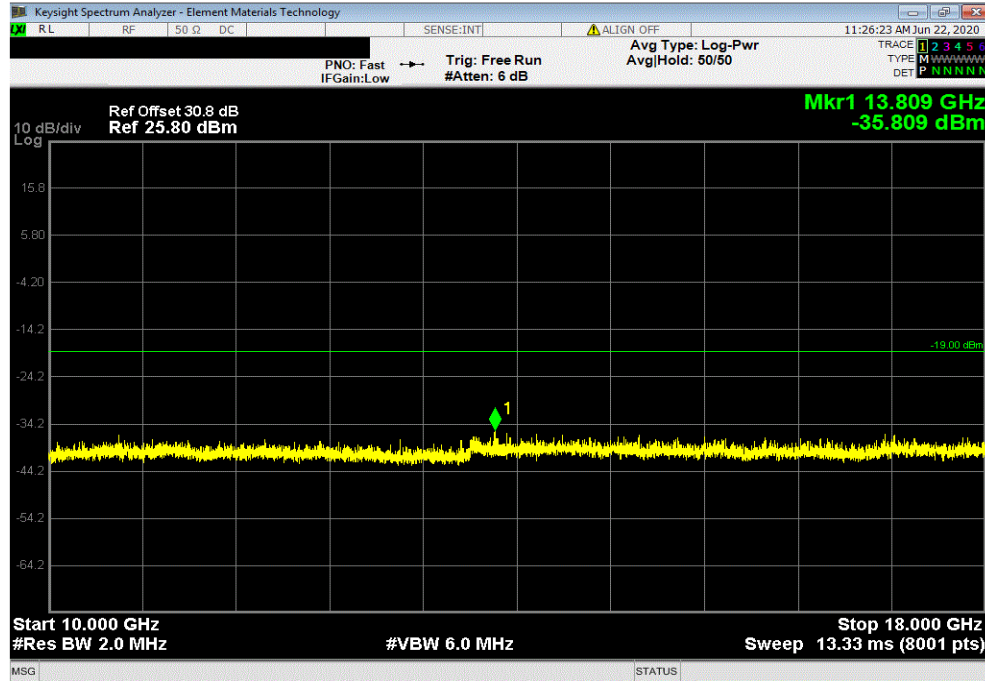


SPURIOUS CONDUCTED EMISSIONS - BAND n25

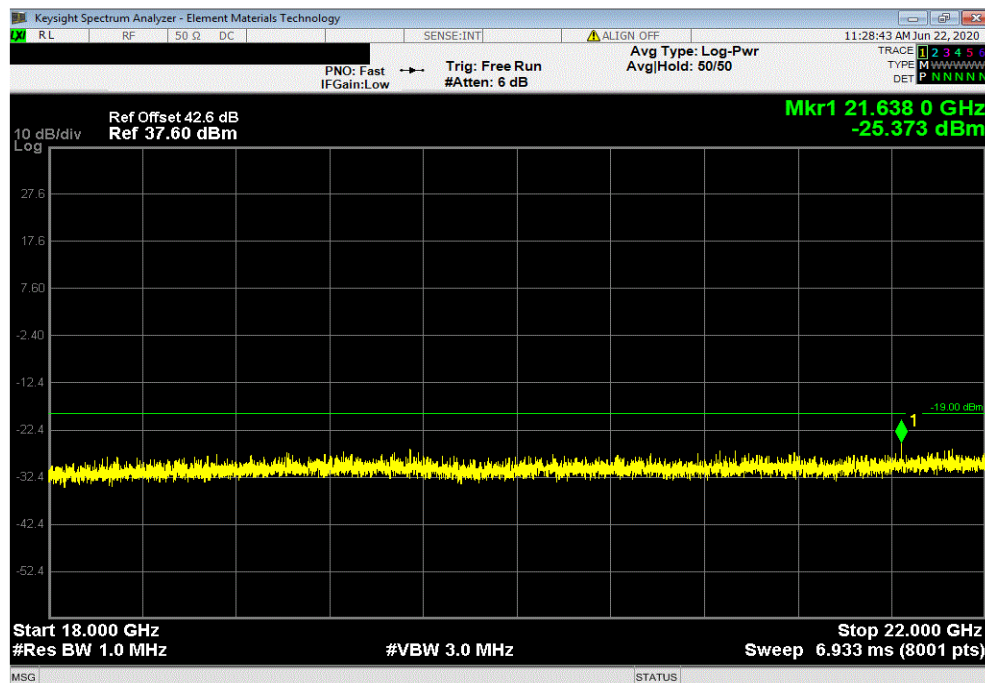


TMTx 2020.06.08.0 BETA XMit 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
10 GHz - 18 GHz	13809	-35.81	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
18 GHz - 22 GHz	21638	-25.37	-19	Pass	

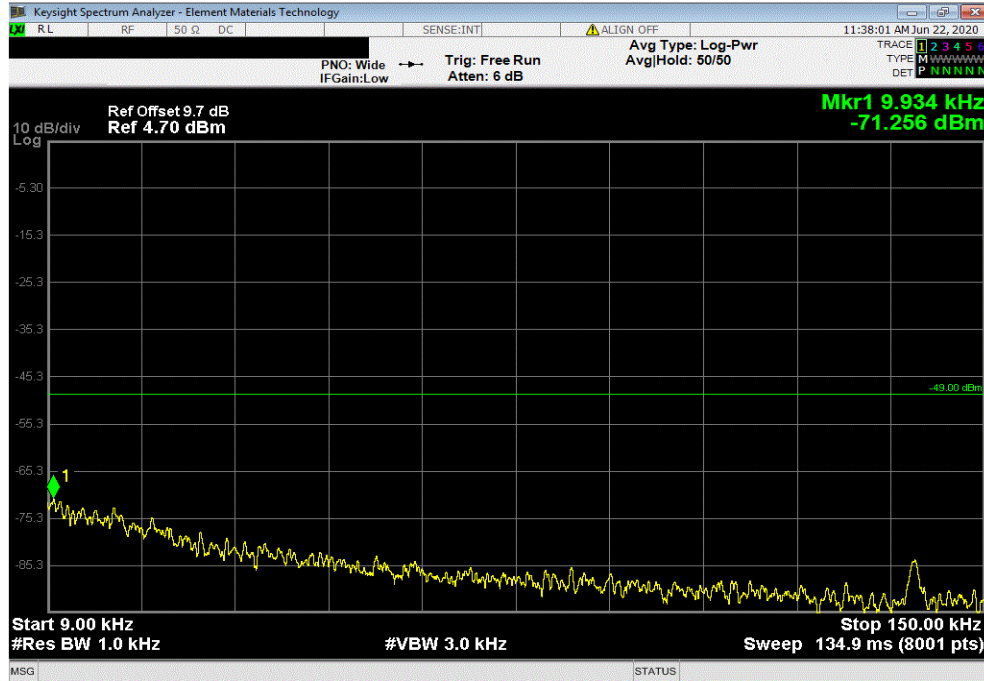


SPURIOUS CONDUCTED EMISSIONS - BAND n25

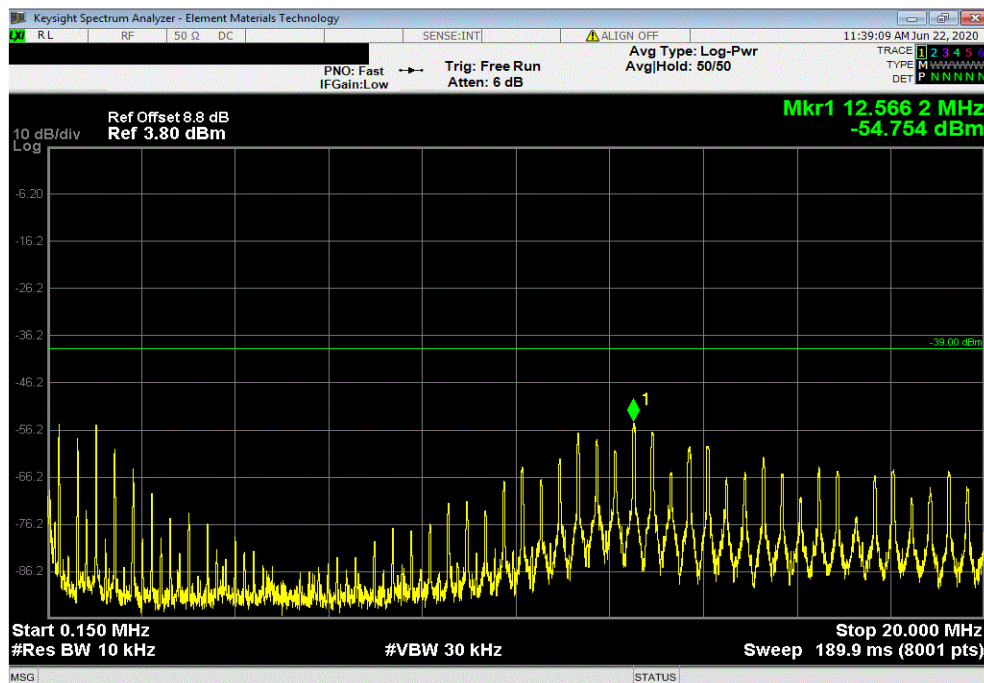


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
9 kHz - 150 kHz	0.01	-71.26	-49	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
150 kHz - 20 MHz	12.57	-54.75	-39	Pass	

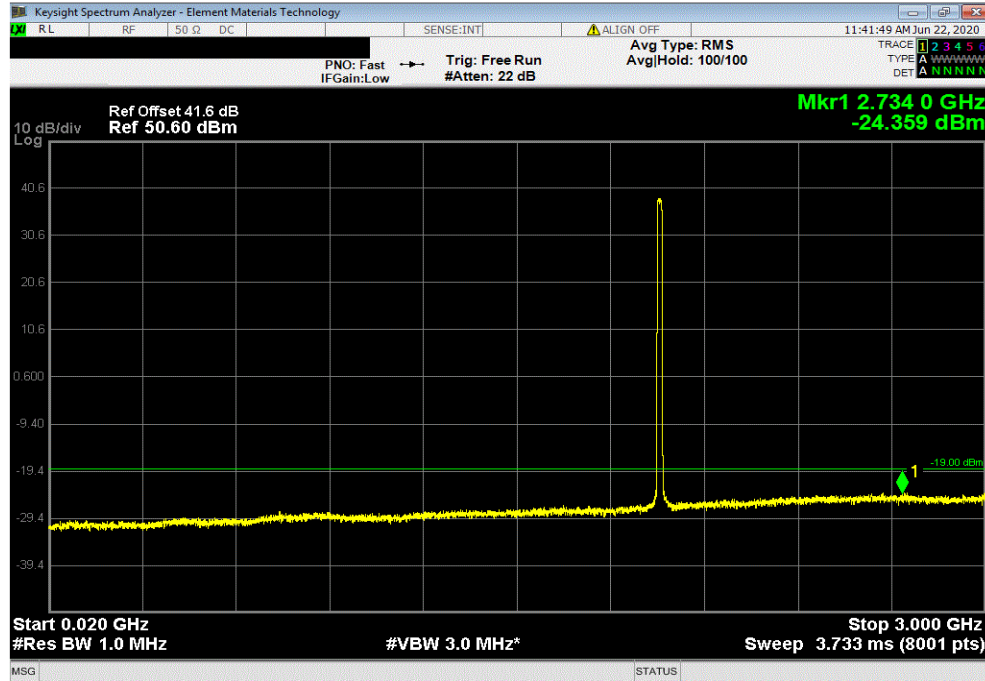


SPURIOUS CONDUCTED EMISSIONS - BAND n25

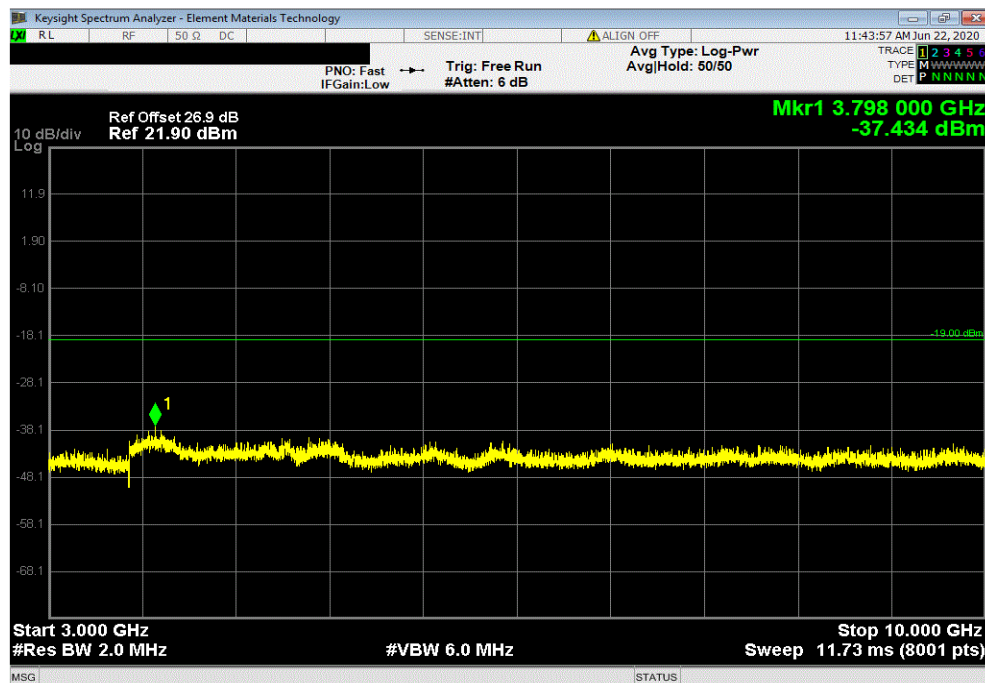


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
20 MHz - 3 GHz	2734.04	-24.36	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
3 GHz - 10 GHz	3798	-37.43	-19	Pass	

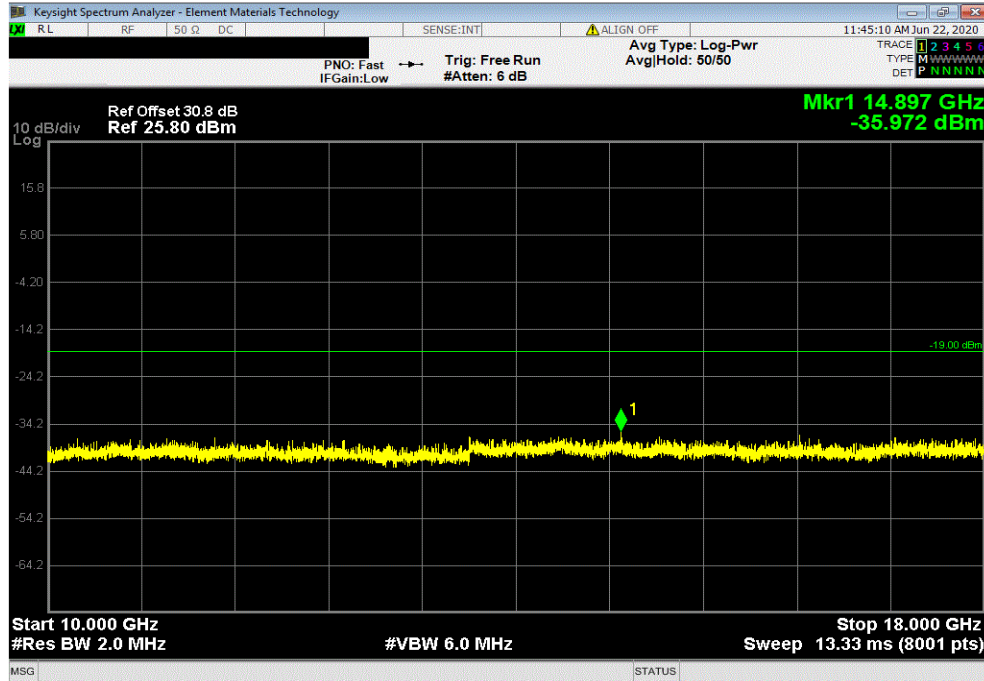


SPURIOUS CONDUCTED EMISSIONS - BAND n25

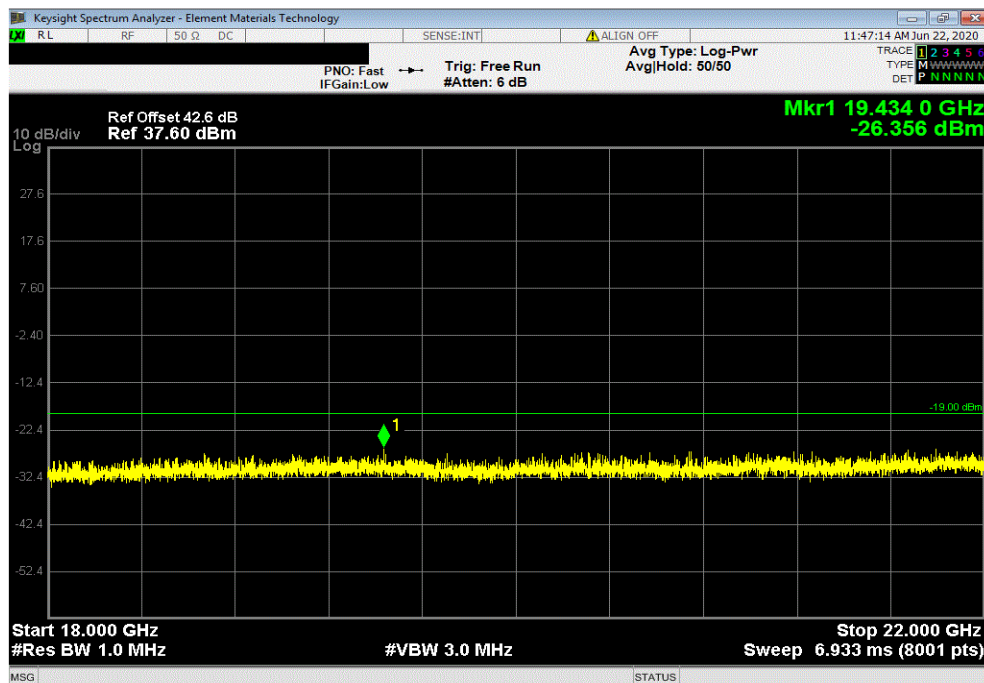


TbTx 2020.06.08.0 BETA XMit 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
10 GHz - 18 GHz	14897	-35.97	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
18 GHz - 22 GHz	19434	-26.36	-19	Pass	

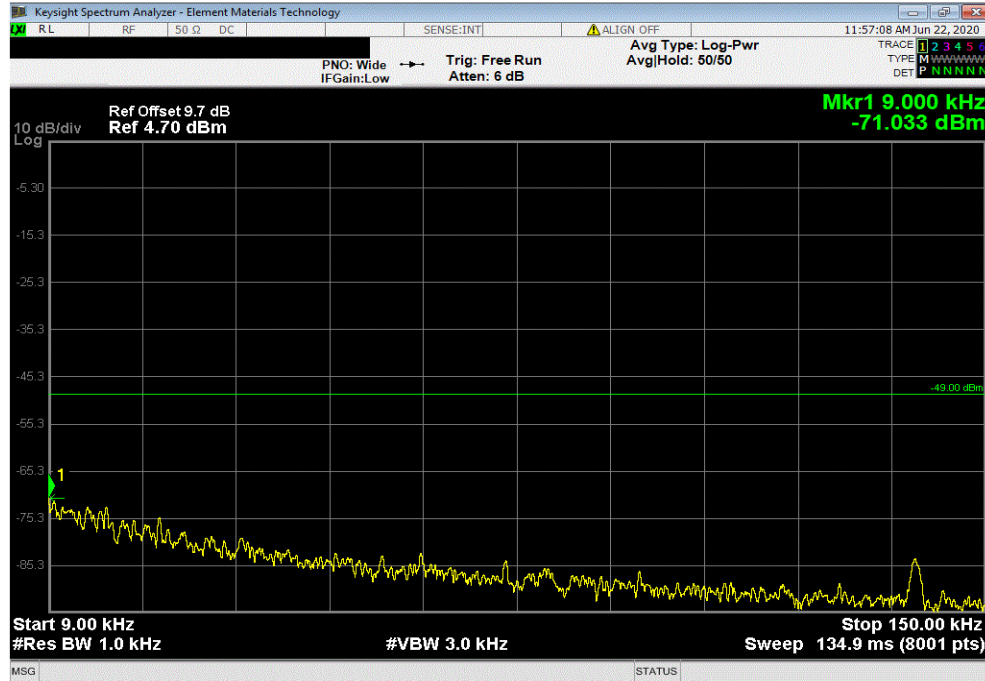


SPURIOUS CONDUCTED EMISSIONS - BAND n25

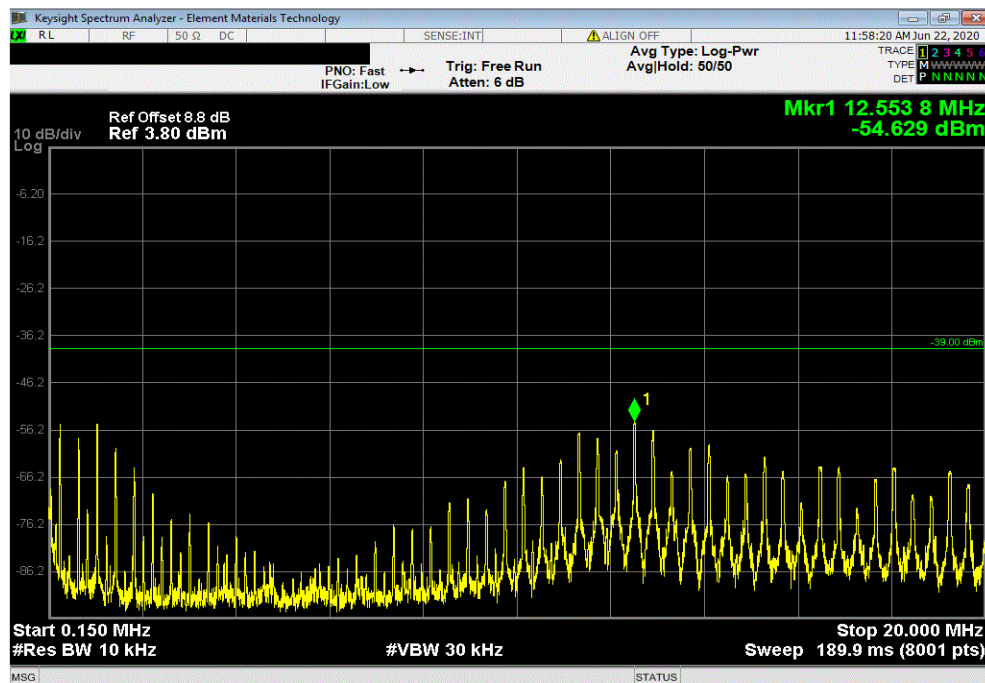


TbTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
9 kHz - 150 kHz	0.01	-71.03	-49	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
150 kHz - 20 MHz	12.55	-54.63	-39	Pass	

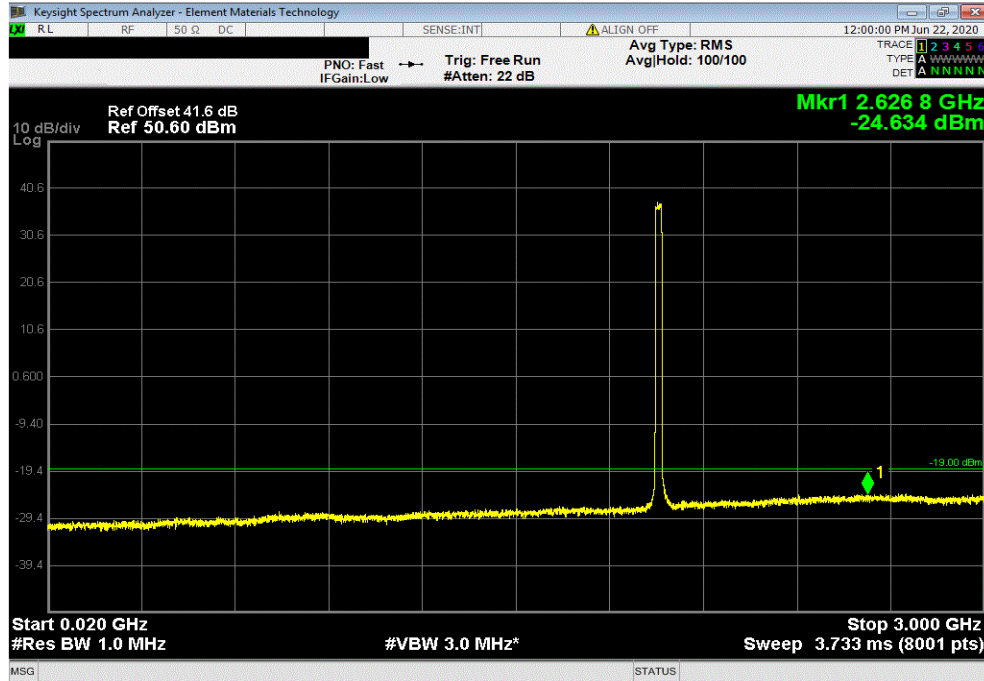


SPURIOUS CONDUCTED EMISSIONS - BAND n25

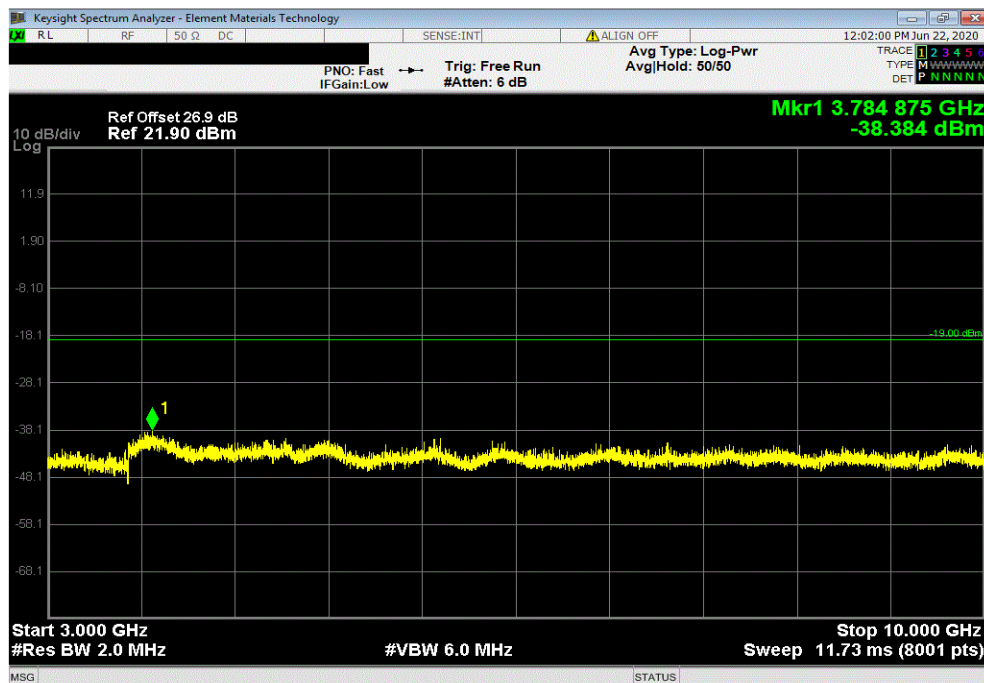


TbTx 2020.06.08.0 BETA XMt 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
20 MHz - 3 GHz	2626.76	-24.63	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
3 GHz - 10 GHz	3784.88	-38.38	-19	Pass	

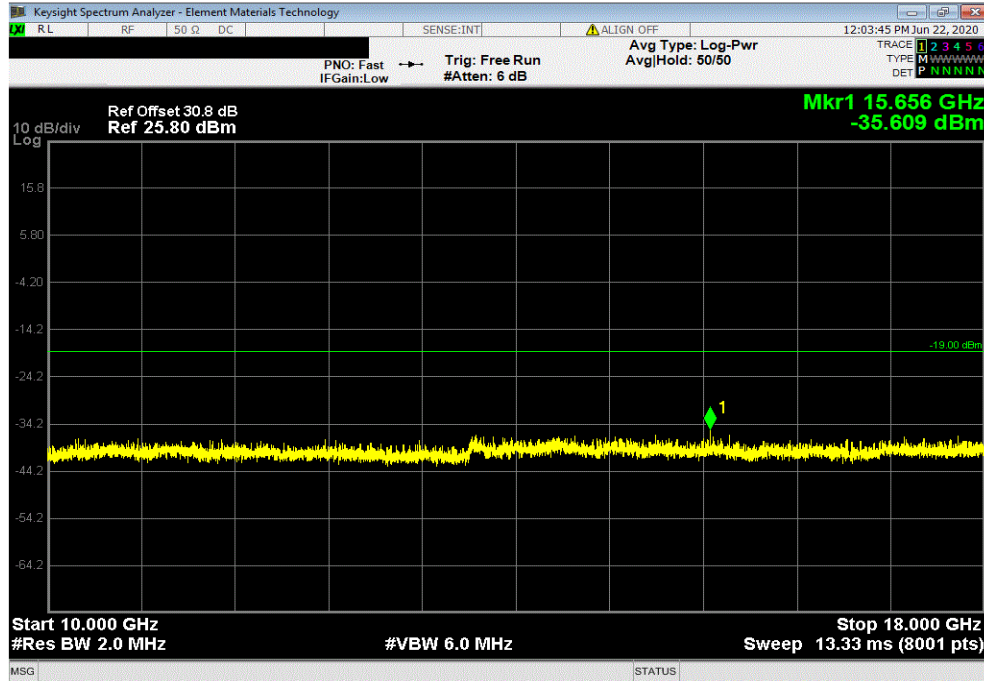


SPURIOUS CONDUCTED EMISSIONS - BAND n25



TbTx 2020.06.08.0 BETA XMit 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
10 GHz - 18 GHz	15656	-35.61	-19	Pass	



Port 4, Band n25, 1930 MHz - 1995 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
18 GHz - 22 GHz	21820	-26.18	-19	Pass	

