

SPURIOUS CONDUCTED EMISSIONS



XMIT 2022.02.07.0

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	TEV	2021-04-27	2024-04-27
Block - DC	Fairview Microwave	SD3379	AMM	2021-09-14	2022-09-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

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) and RSS Gen 6.13, 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), RSS-133 6.5 (ii), FCC 27.53(h)(1), RSS-139 6.6 and RSS-170 5.4 & 5.4.1.2, 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. RF conducted emissions testing was performed on one port. The AHFII antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification report) and port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

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.

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TMTv 2022.03.14.0 XMH 2022.02.07.0

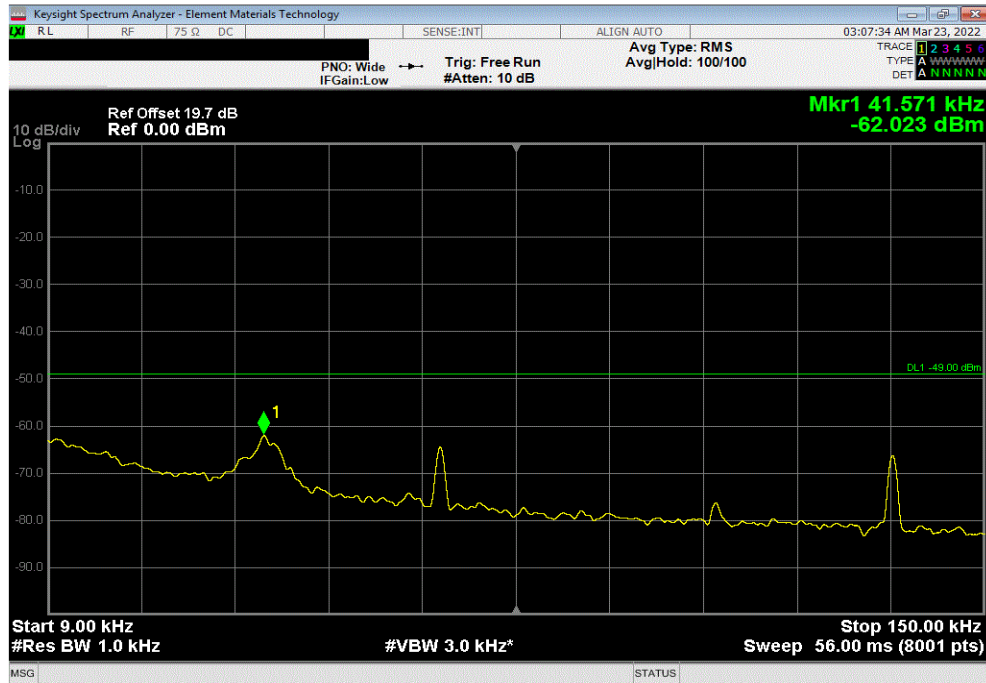
EUT: AHFI Remote Radio Head		Work Order: NOKI0038	
Serial Number: YK214000035		Date: 25-Mar-22	
Customer: Nokia of America Corporation		Temperature: 22.4 °C	
Attendees: Mitchell Hill		Humidity: 25.5% RH	
Project: None		Barometric Pres.: 1022 mbar	
Tested by: Mark Baytan		Job Site: TX06	
Power: 54 VDC			
TEST SPECIFICATIONS		Test Method	
FCC 24E:2022		ANSI C63.26:2015	
RSS-133 Issue 6:2013+A1:2018		RSS-133 Issue 6:2013+A1:2018	
FCC 27:2022		ANSI C63.26:2015	
RSS-139 Issue 3:2015		RSS-139 Issue 3:2015	
RSS-170 Issue 3:2015		RSS-170 Issue 3:2015	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The Band n25 carrier was enabled at maximum power (80 watts/carrier). The Band n66 carrier was enabled on the middle channel (2155MHz) at 40 watts with the same channel bandwidth and modulation type as the Band n25 carrier. The port power was set at the maximum level of 120 Watts [Band 25 carrier (80W) and Band 66 carrier (40W)].			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1,2,3,4	Signature	
		Frequency Range	Value (dBm) Limit (dBm) Result
Band n25, 1930 MHz - 1995 MHz, 5G NR			
Port 1			
5 MHz Bandwidth			
QPSK Modulation			
Mid Channel, 1962.5 MHz		9 kHz - 150 kHz	-62.02 -49 Pass
Mid Channel, 1962.5 MHz		150 kHz - 20 MHz	-53.4 -39 Pass
Mid Channel, 1962.5 MHz		20 MHz - 3.5 GHz	-25.83 -19 Pass
Mid Channel, 1962.5 MHz		1.9 GHz - 2.2 GHz	-25.43 -19 Pass
Mid Channel, 1962.5 MHz		3.5 GHz - 13 GHz	-38.14 -19 Pass
Mid Channel, 1962.5 MHz		13 GHz - 22 GHz	-25.9 -19 Pass
16-QAM Modulation			
Mid Channel, 1962.5 MHz		9 kHz - 150 kHz	-62.5 -49 Pass
Mid Channel, 1962.5 MHz		150 kHz - 20 MHz	-53.02 -39 Pass
Mid Channel, 1962.5 MHz		20 MHz - 3.5 GHz	-26.19 -19 Pass
Mid Channel, 1962.5 MHz		1.9 GHz - 2.2 GHz	-25.22 -19 Pass
Mid Channel, 1962.5 MHz		3.5 GHz - 13 GHz	-38.11 -19 Pass
Mid Channel, 1962.5 MHz		13 GHz - 22 GHz	-25.74 -19 Pass
64-QAM Modulation			
Mid Channel, 1962.5 MHz		9 kHz - 150 kHz	-62.68 -49 Pass
Mid Channel, 1962.5 MHz		150 kHz - 20 MHz	-53.87 -39 Pass
Mid Channel, 1962.5 MHz		20 MHz - 3.5 GHz	-25.67 -19 Pass
Mid Channel, 1962.5 MHz		1.9 GHz - 2.2 GHz	-25.5 -19 Pass
Mid Channel, 1962.5 MHz		3.5 GHz - 13 GHz	-38.16 -19 Pass
Mid Channel, 1962.5 MHz		13 GHz - 22 GHz	-26.04 -19 Pass
256-QAM Modulation			
Mid Channel, 1962.5 MHz		9 kHz - 150 kHz	-62.24 -49 Pass
Mid Channel, 1962.5 MHz		150 kHz - 20 MHz	-53.41 -39 Pass
Mid Channel, 1962.5 MHz		20 MHz - 3.5 GHz	-25.56 -19 Pass
Mid Channel, 1962.5 MHz		1.9 GHz - 2.2 GHz	-25.38 -19 Pass
Mid Channel, 1962.5 MHz		3.5 GHz - 13 GHz	-38.08 -19 Pass
Mid Channel, 1962.5 MHz		13 GHz - 22 GHz	-25.76 -19 Pass
10 MHz Bandwidth			
256-QAM Modulation			
Mid Channel, 1962.5 MHz		9 kHz - 150 kHz	-62.34 -49 Pass
Mid Channel, 1962.5 MHz		150 kHz - 20 MHz	-53.3 -39 Pass
Mid Channel, 1962.5 MHz		20 MHz - 3.5 GHz	-25.25 -19 Pass
Mid Channel, 1962.5 MHz		1.9 GHz - 2.2 GHz	-24.99 -19 Pass
Mid Channel, 1962.5 MHz		3.5 GHz - 13 GHz	-38.14 -19 Pass
Mid Channel, 1962.5 MHz		13 GHz - 22 GHz	-25.9 -19 Pass
15 MHz Bandwidth			
256-QAM Modulation			
Mid Channel, 1962.5 MHz		9 kHz - 150 kHz	-62.02 -49 Pass
Mid Channel, 1962.5 MHz		150 kHz - 20 MHz	-53.84 -39 Pass
Mid Channel, 1962.5 MHz		20 MHz - 3.5 GHz	-25.31 -19 Pass
Mid Channel, 1962.5 MHz		1.9 GHz - 2.2 GHz	-25.13 -19 Pass
Mid Channel, 1962.5 MHz		3.5 GHz - 13 GHz	-38.2 -19 Pass
Mid Channel, 1962.5 MHz		13 GHz - 22 GHz	-25.73 -19 Pass
20 MHz Bandwidth			
256-QAM Modulation			
Mid Channel, 1962.5 MHz		9 kHz - 150 kHz	-61.184 -49 Pass
Mid Channel, 1962.5 MHz		150 kHz - 20 MHz	-53.435 -39 Pass
Mid Channel, 1962.5 MHz		20 MHz - 3.5 GHz	-25.11 -19 Pass
Mid Channel, 1962.5 MHz		1.9 GHz - 2.2 GHz	-21.99 -19 Pass
Mid Channel, 1962.5 MHz		3.5 GHz - 13 GHz	-38.02 -19 Pass
Mid Channel, 1962.5 MHz		13 GHz - 22 GHz	-25.75 -19 Pass
30 MHz Bandwidth			
256-QAM Modulation			
Mid Channel, 1962.5 MHz		9 kHz - 150 kHz	-61.59 -49 Pass
Mid Channel, 1962.5 MHz		150 kHz - 20 MHz	-53.58 -39 Pass
Mid Channel, 1962.5 MHz		20 MHz - 3.5 GHz	-24.99 -19 Pass
Mid Channel, 1962.5 MHz		1.9 GHz - 2.2 GHz	-27.66 -19 Pass
Mid Channel, 1962.5 MHz		3.5 GHz - 13 GHz	-37.89 -19 Pass
Mid Channel, 1962.5 MHz		13 GHz - 22 GHz	-25.84 -19 Pass

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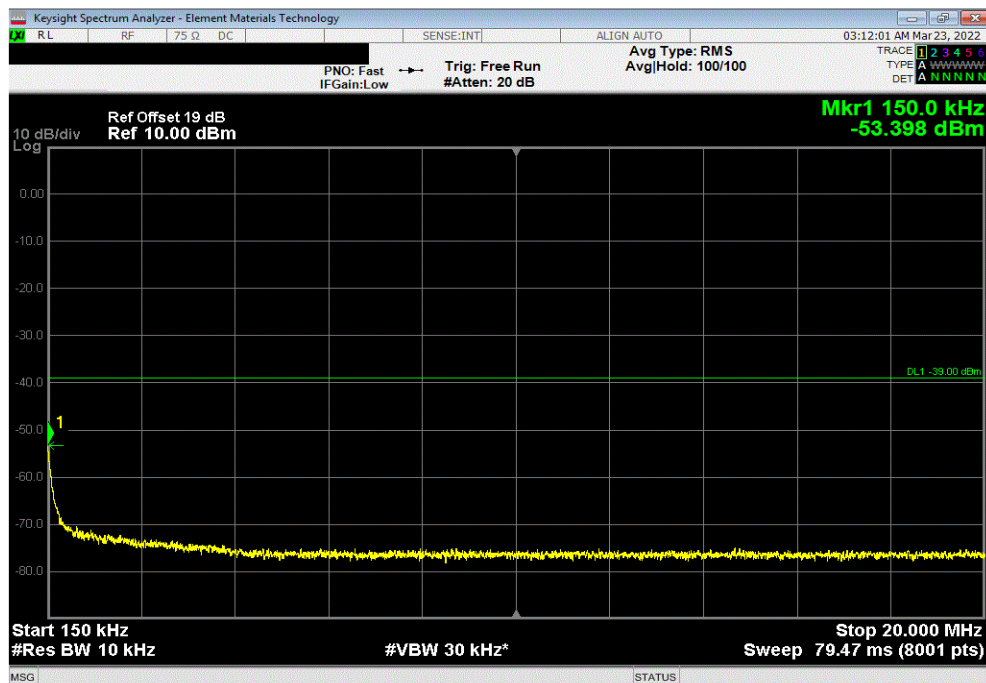


TbTtx 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
9 kHz - 150 kHz		-62.02		-49	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
150 kHz - 20 MHz		-53.4		-39	Pass

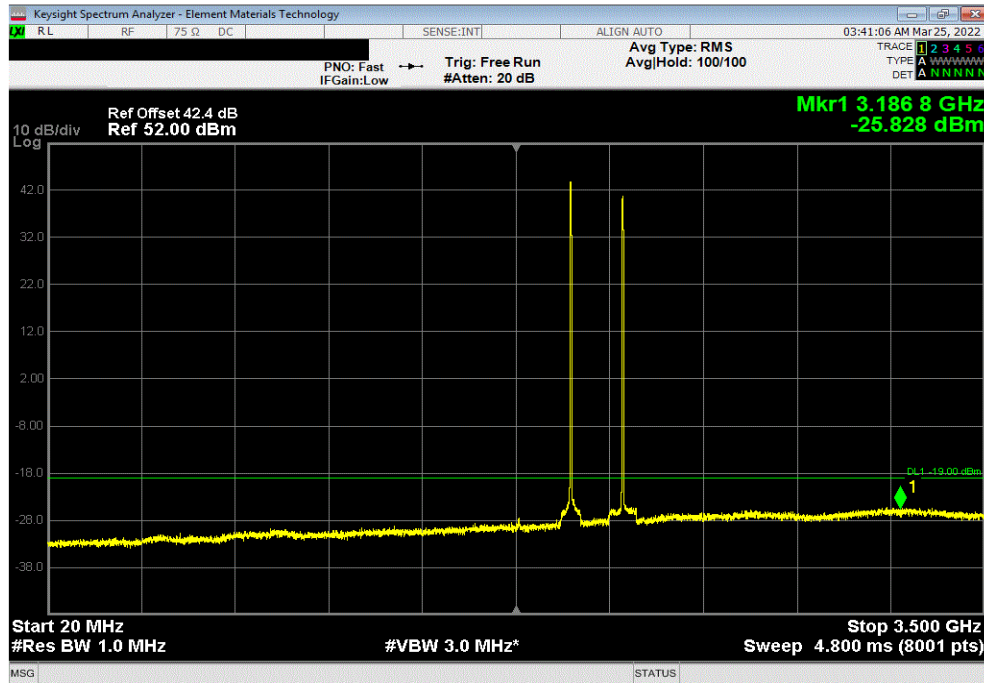


SPURIOUS CONDUCTED EMISSIONS

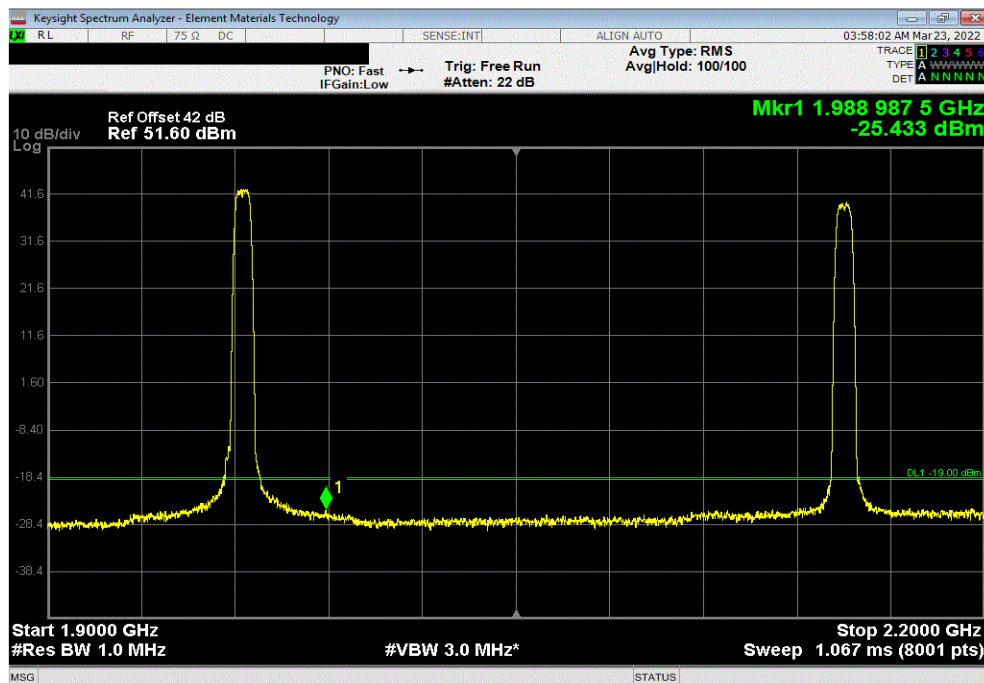


TbTtx 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
20 MHz - 3.5 GHz	-25.83	-19	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
1.9 GHz - 2.2 GHz	-25.43	-19	Pass	

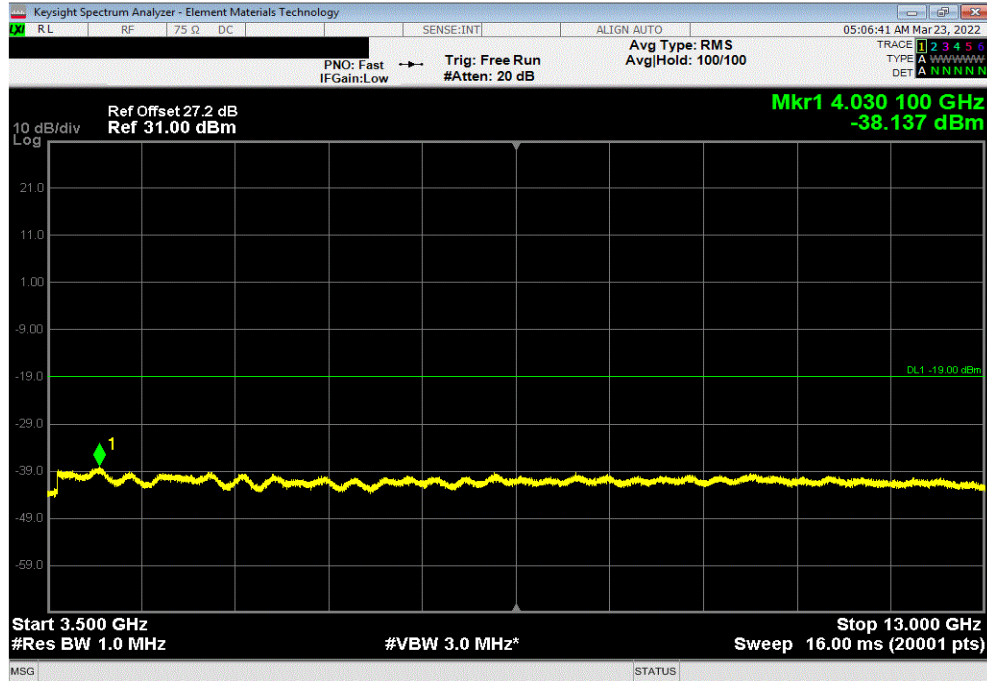


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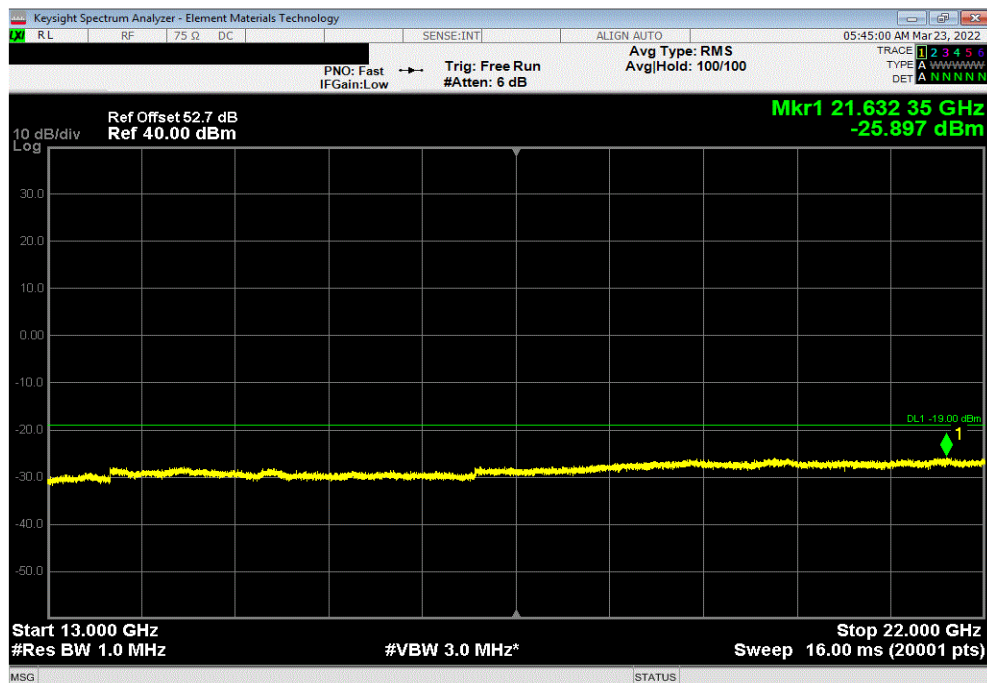


TbTtx 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
3.5 GHz - 13 GHz	-38.14	-19	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
13 GHz - 22 GHz	-25.9	-19	Pass	

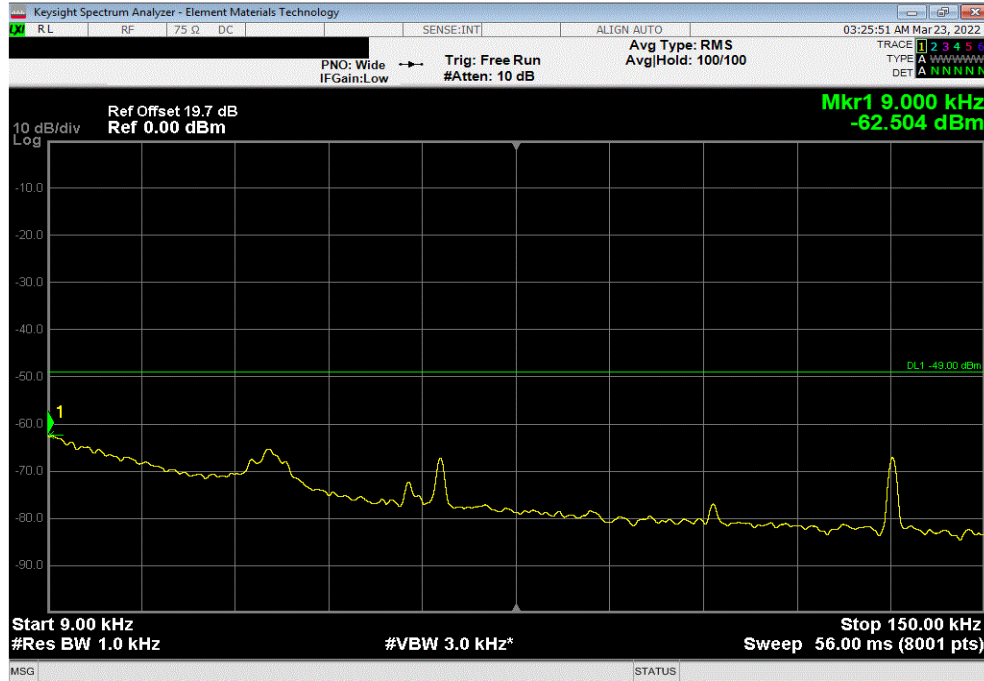


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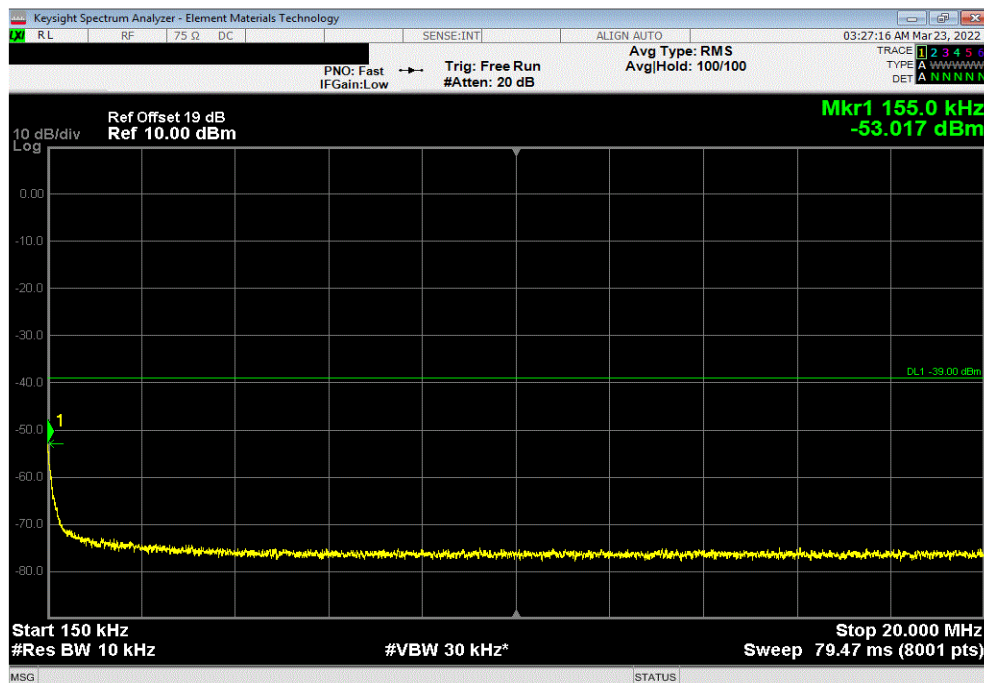


TbTtx 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency		Value (dBm)		Limit (dBm)	
Range					
9 kHz - 150 kHz		-62.5		-49	
				Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency		Value (dBm)		Limit (dBm)	
Range					
150 kHz - 20 MHz		-53.02		-39	
				Pass	

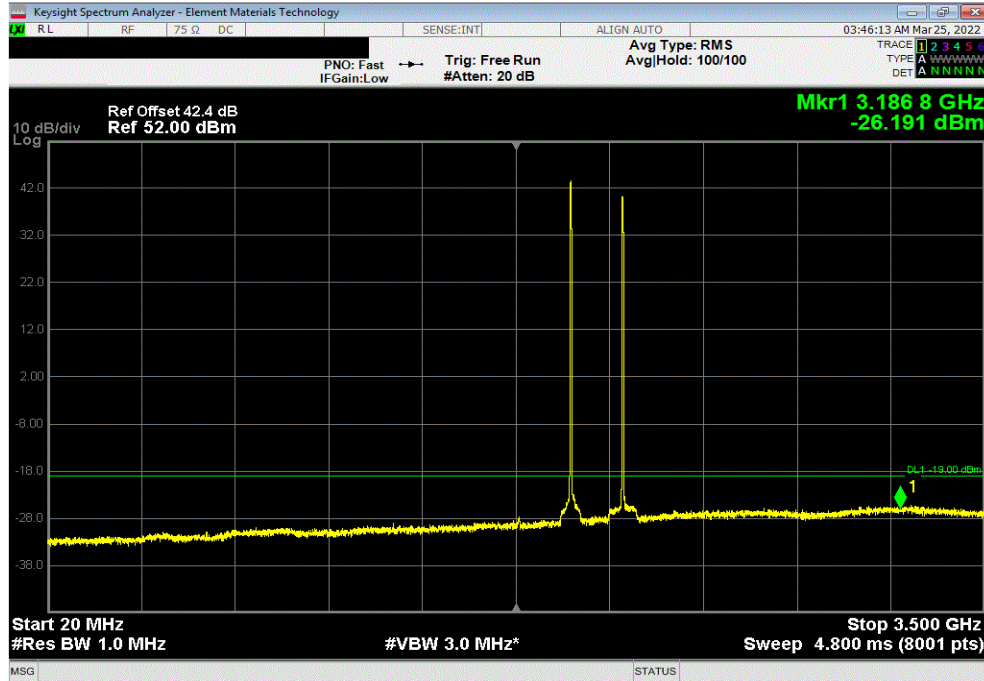


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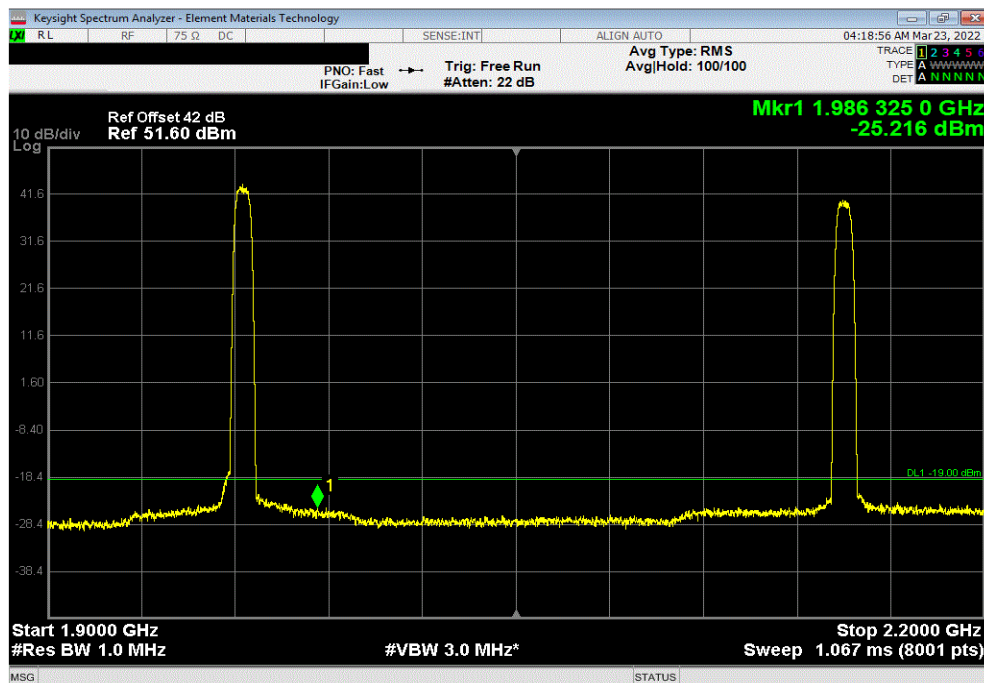


TbTtX 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
20 MHz - 3.5 GHz	-26.19	-19	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
1.9 GHz - 2.2 GHz	-25.22	-19	Pass	

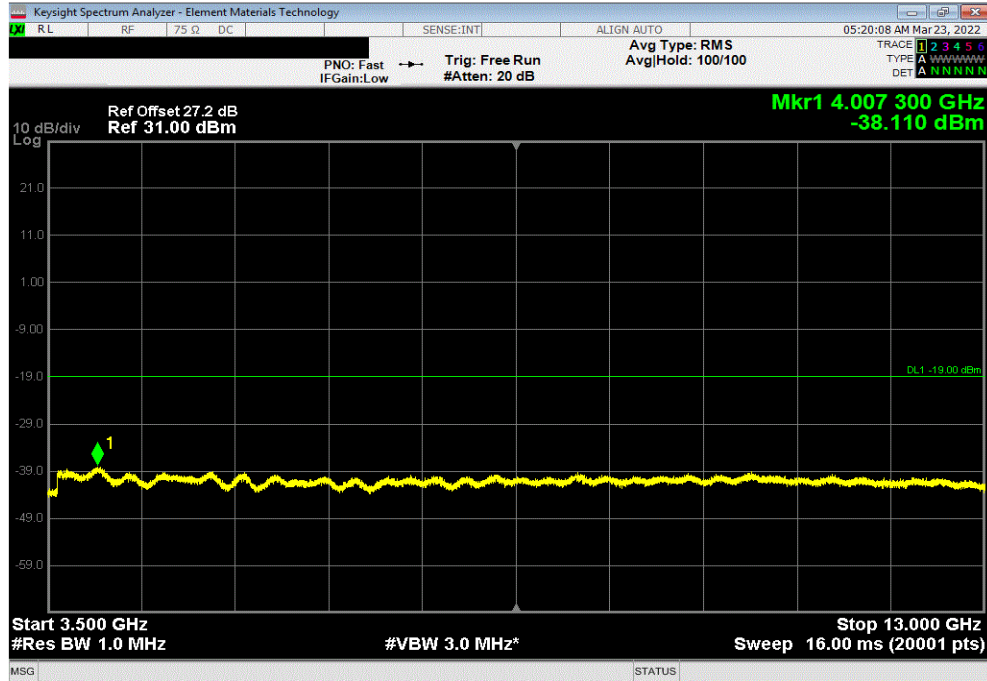


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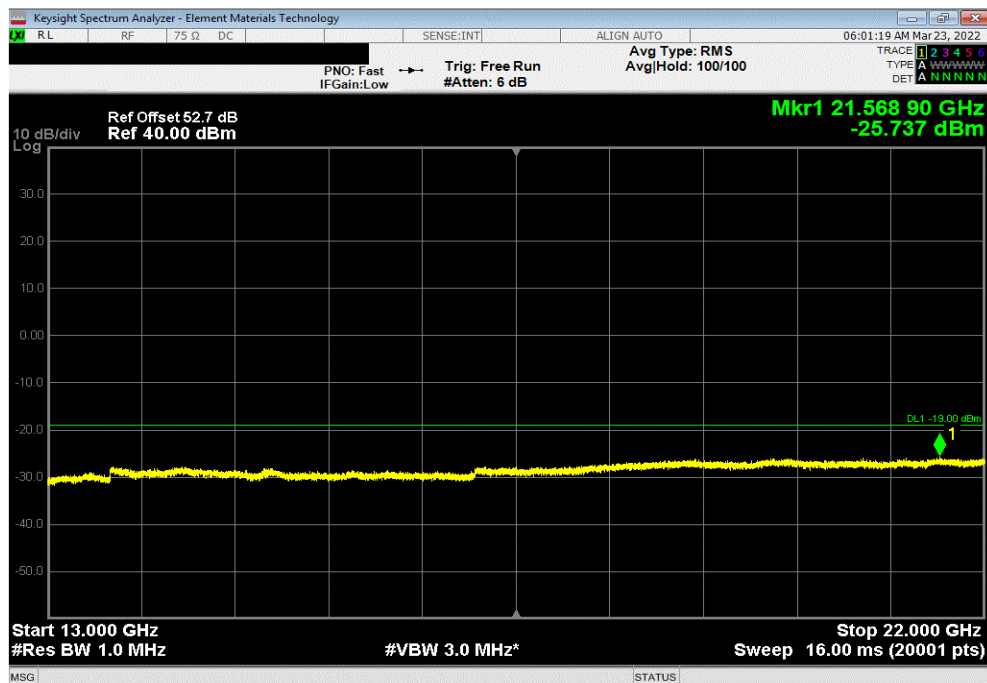


TbTtx 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
3.5 GHz - 13 GHz	-38.11	-19	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
13 GHz - 22 GHz	-25.74	-19	Pass	

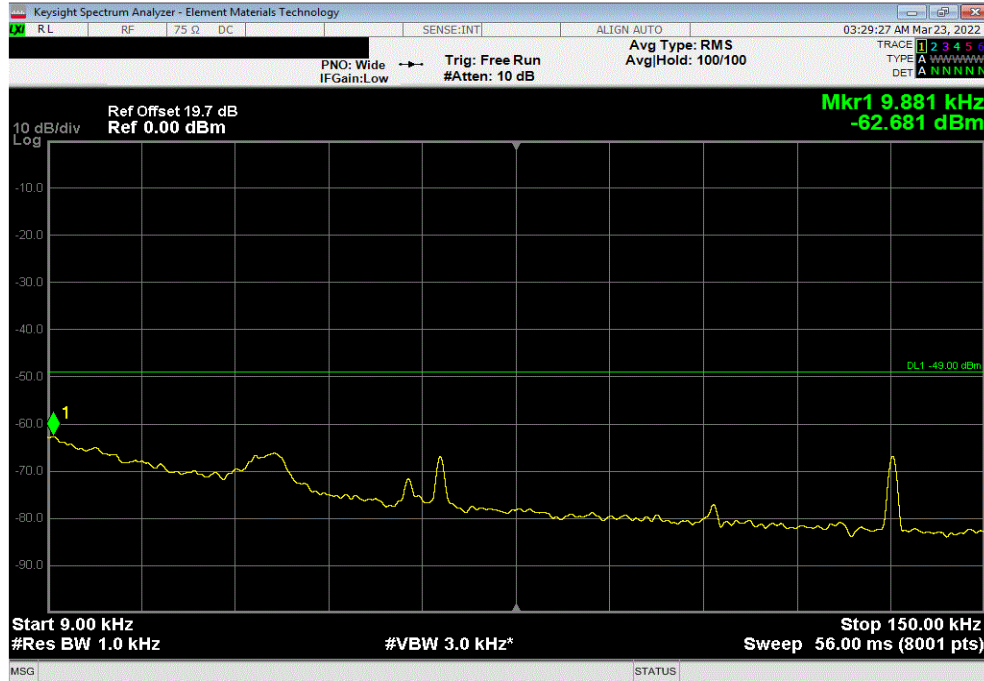


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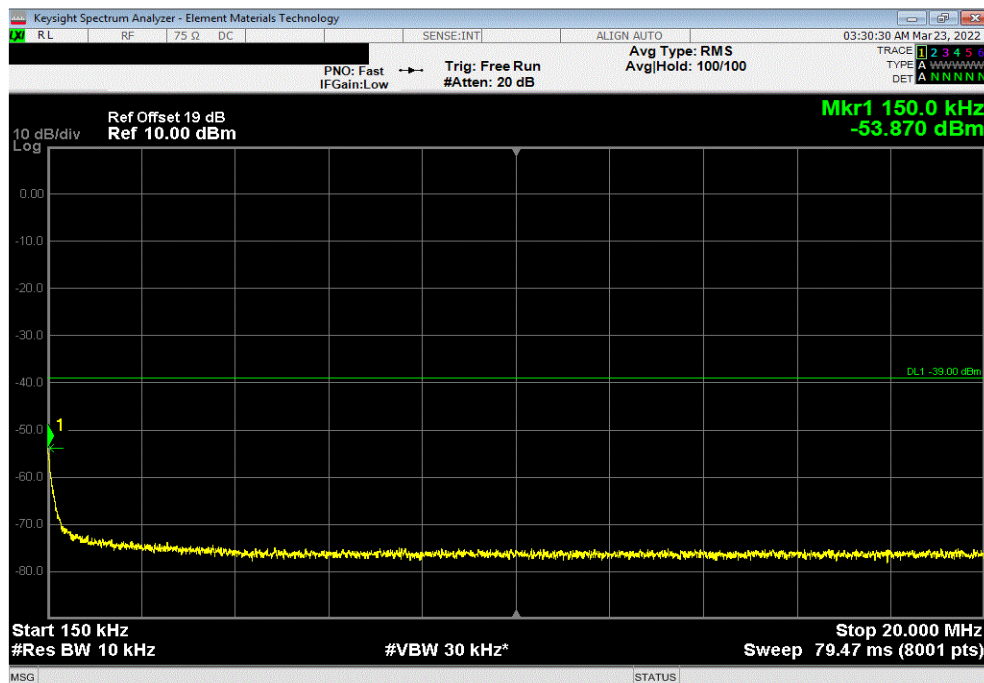


TbTtx 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
	9 kHz - 150 kHz			-62.68	-49	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
150 kHz - 20 MHz				-53.87	-39	Pass

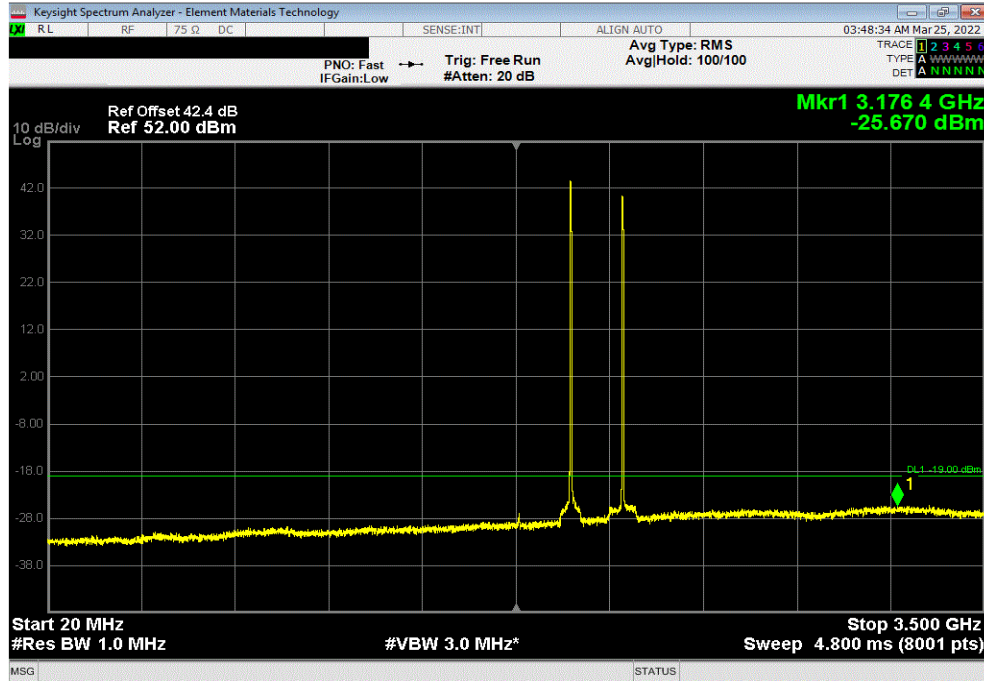


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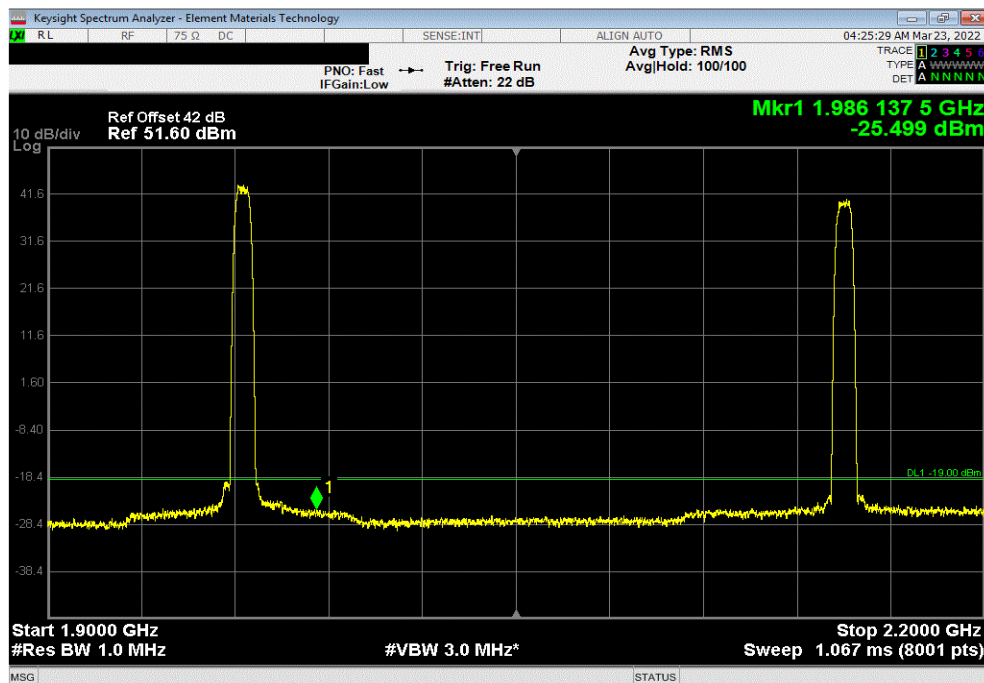


TbTtx 2022.03.14.0 XMR 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
20 MHz - 3.5 GHz	-25.67	-19	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
1.9 GHz - 2.2 GHz	-25.5	-19	Pass	

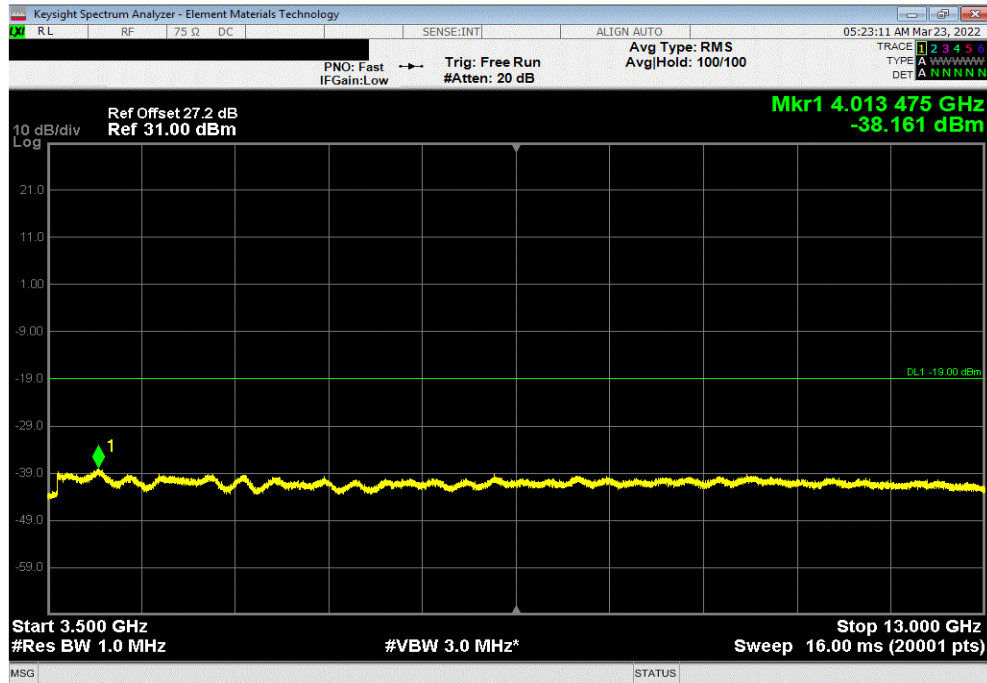


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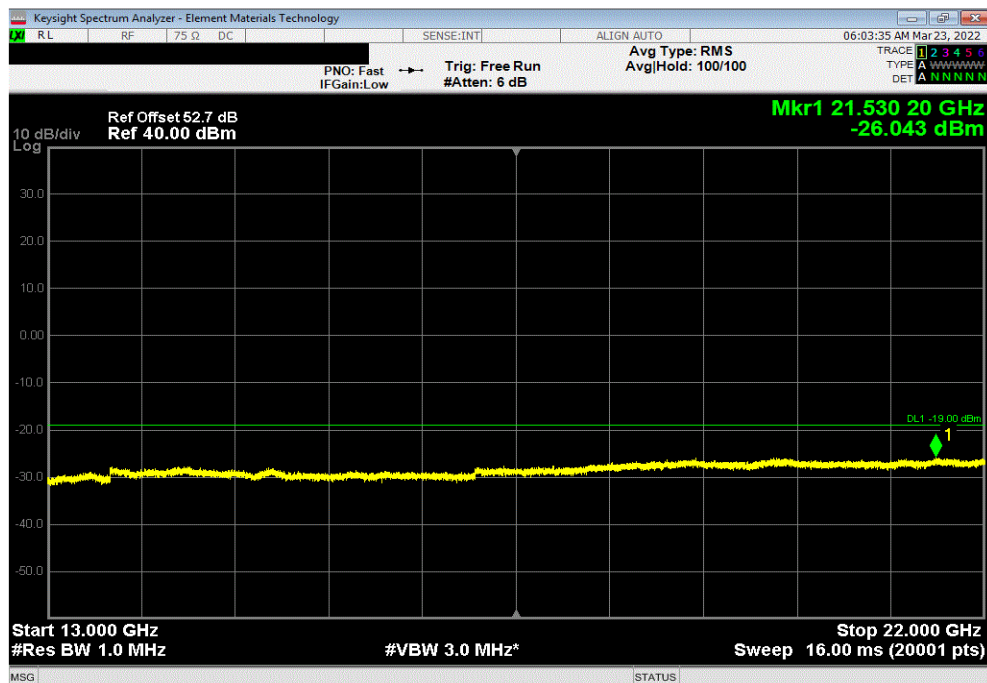


TbTtx 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
3.5 GHz - 13 GHz	-38.16	-19	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
13 GHz - 22 GHz	-26.04	-19	Pass	

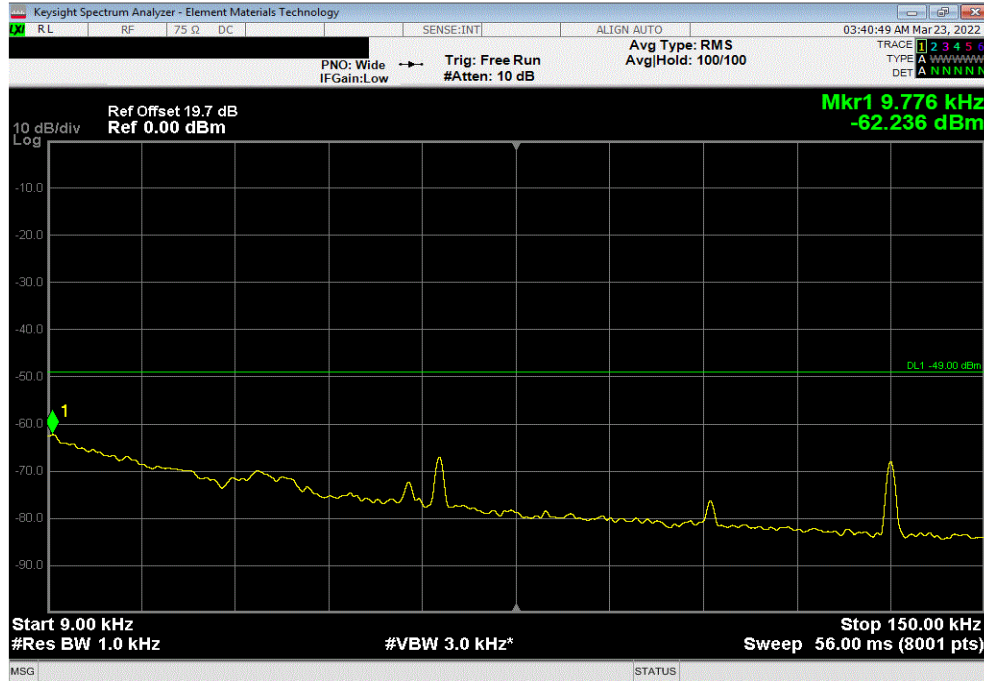


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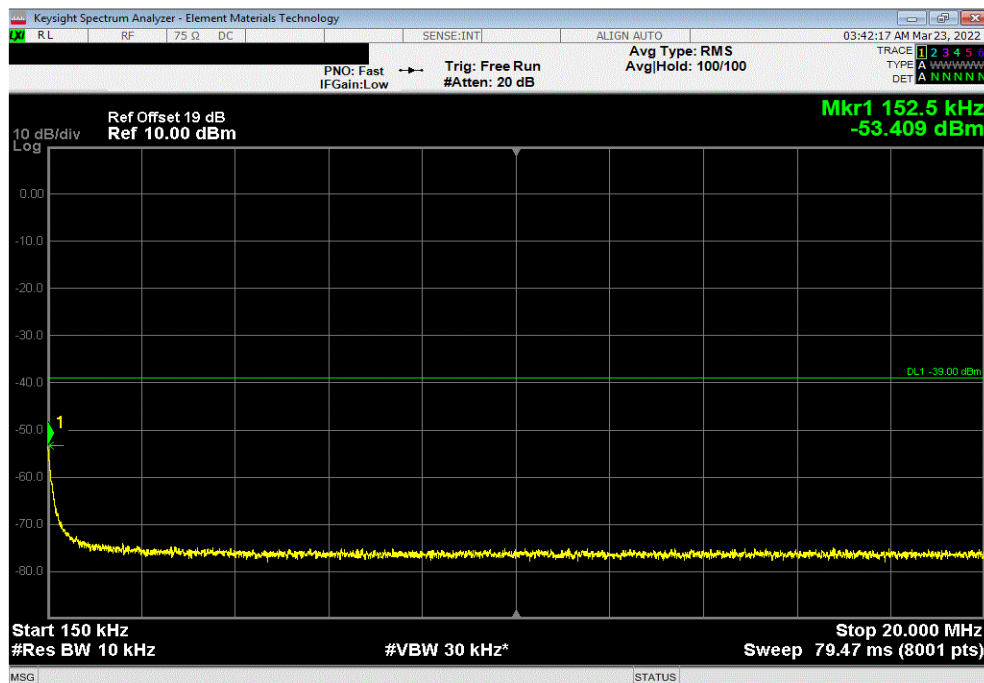


TbTtx 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz		-62.24	-49	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
150 kHz - 20 MHz		-53.41	-39	Pass	

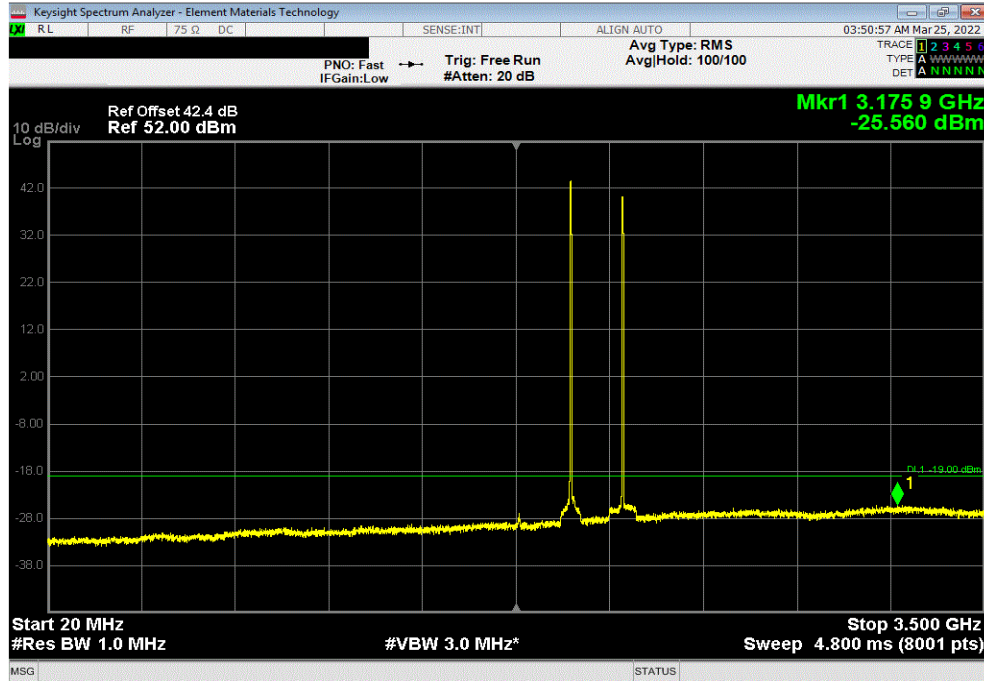


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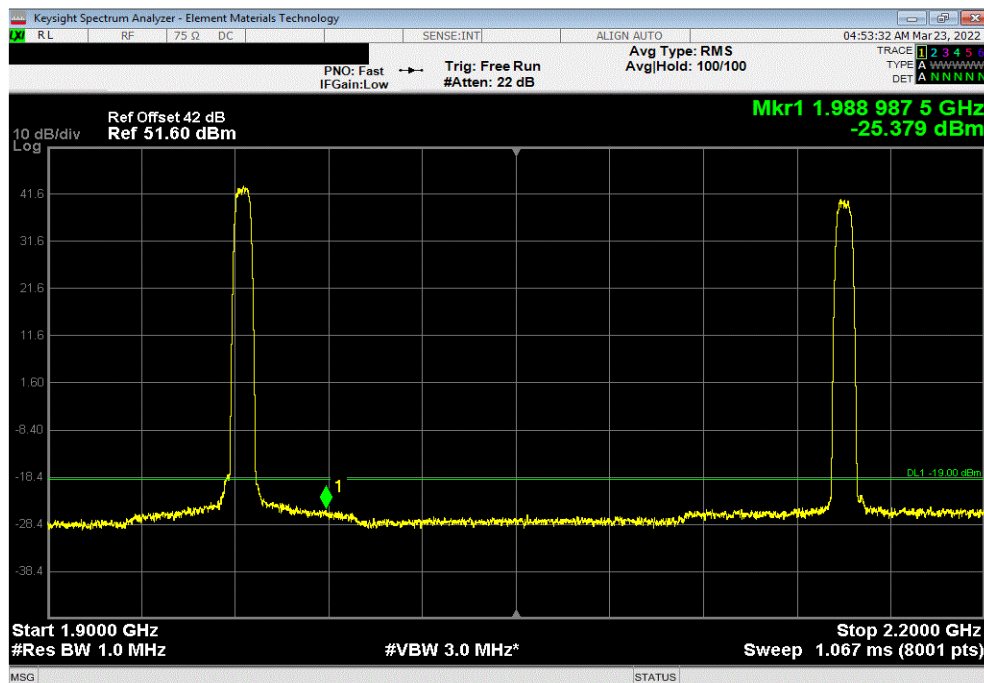


TbTtx 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
20 MHz - 3.5 GHz	-25.56	-19	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
1.9 GHz - 2.2 GHz	-25.38	-19	Pass	

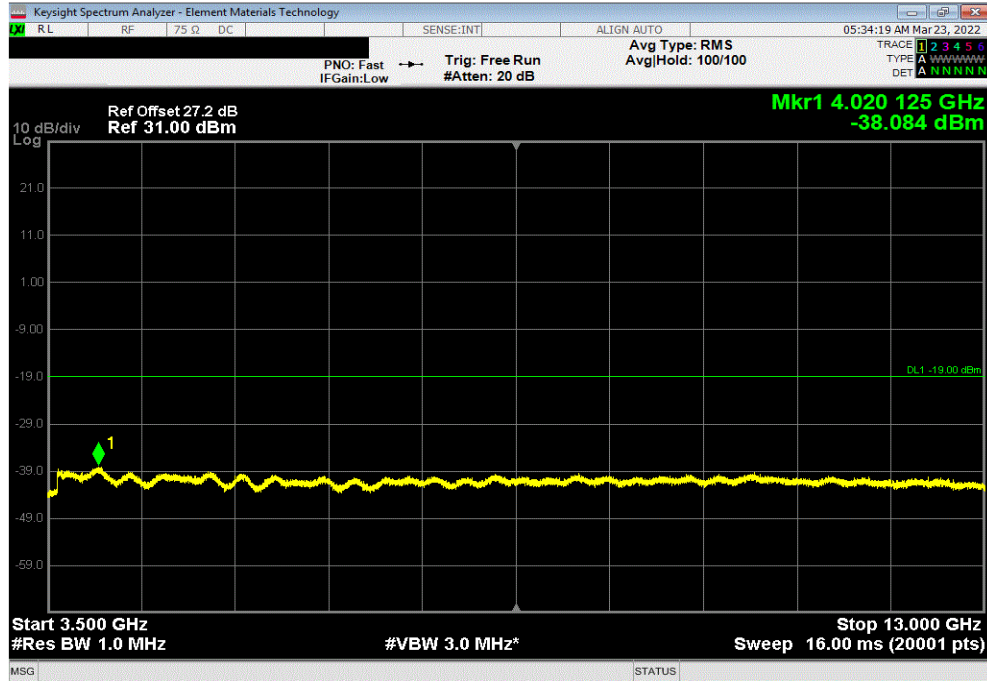


SPURIOUS CONDUCTED EMISSIONS

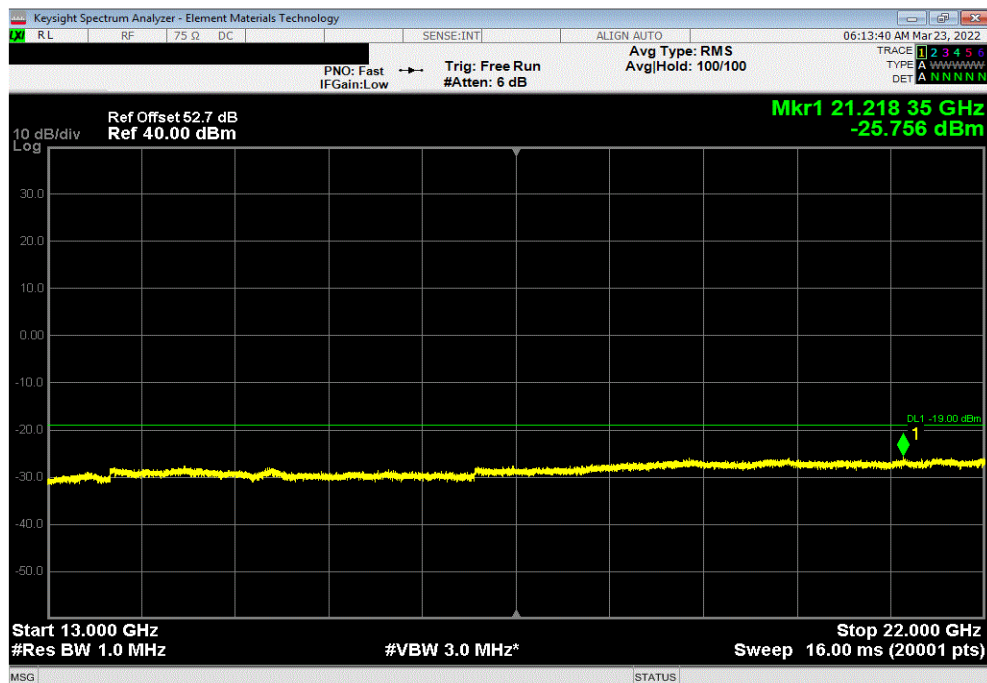


TbTtx 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
3.5 GHz - 13 GHz	-38.08	-19	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
13 GHz - 22 GHz	-25.76	-19	Pass	

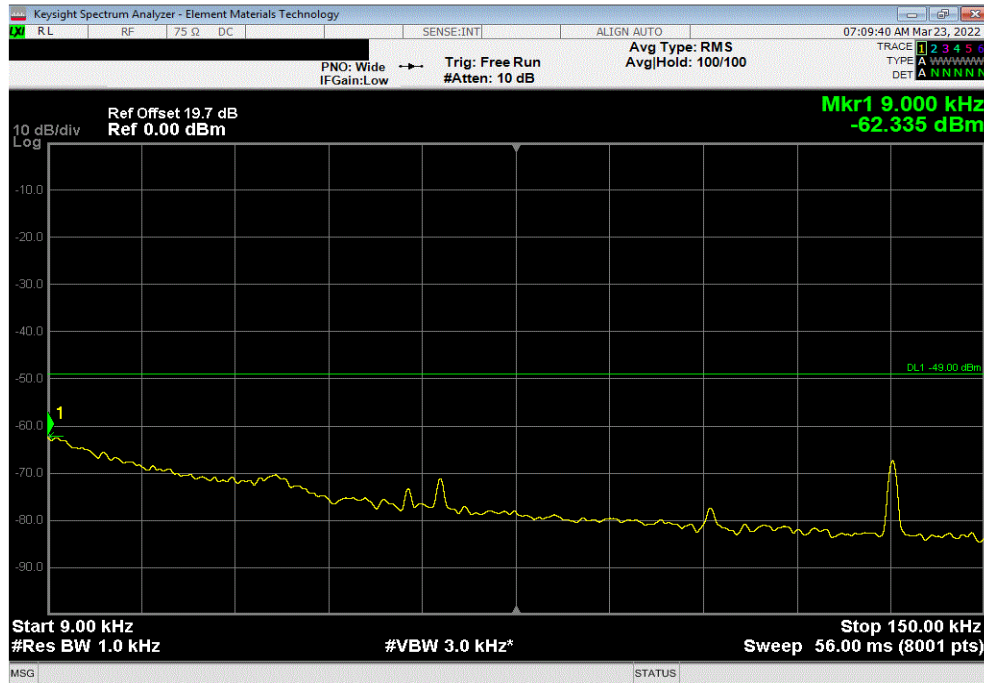


SPURIOUS CONDUCTED EMISSIONS

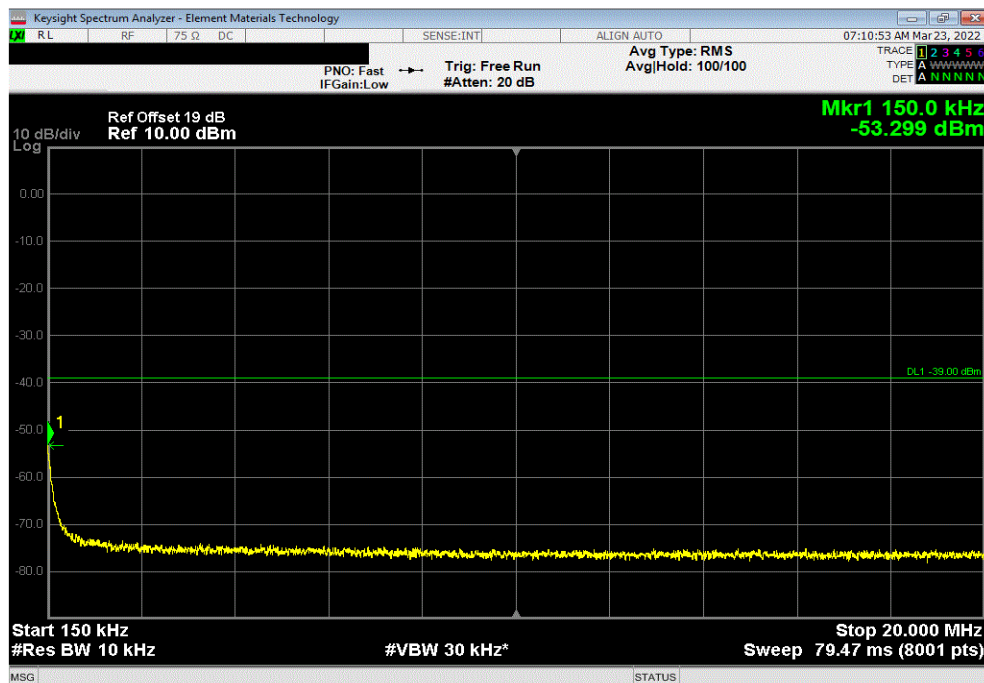


TbTtx 2022.03.14.0 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz		-62.34	-49	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
150 kHz - 20 MHz		-53.3	-39	Pass	

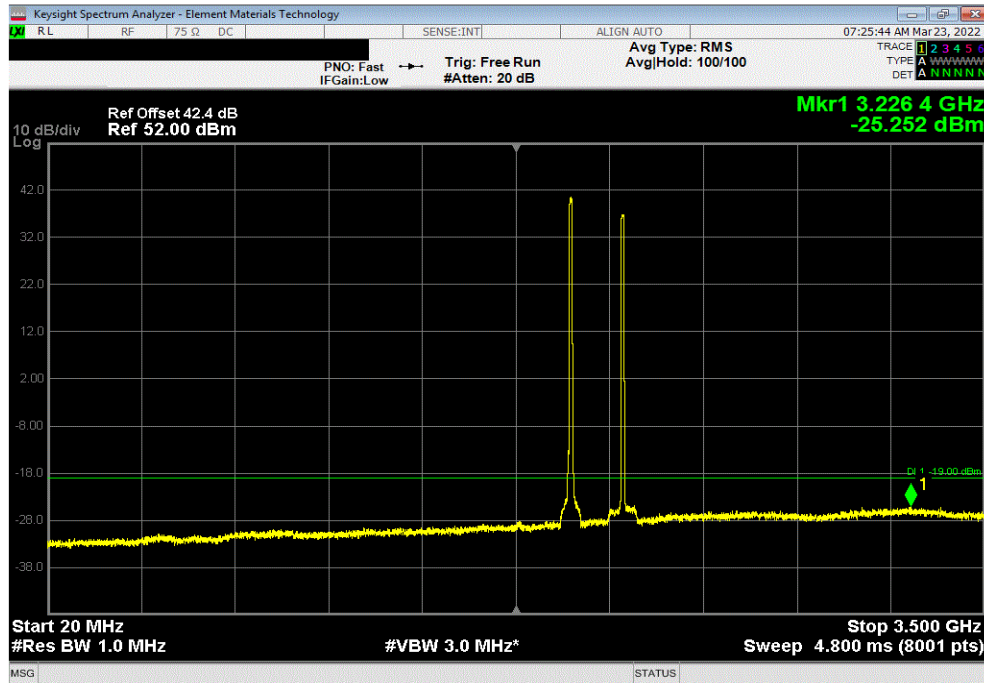


SPURIOUS CONDUCTED EMISSIONS

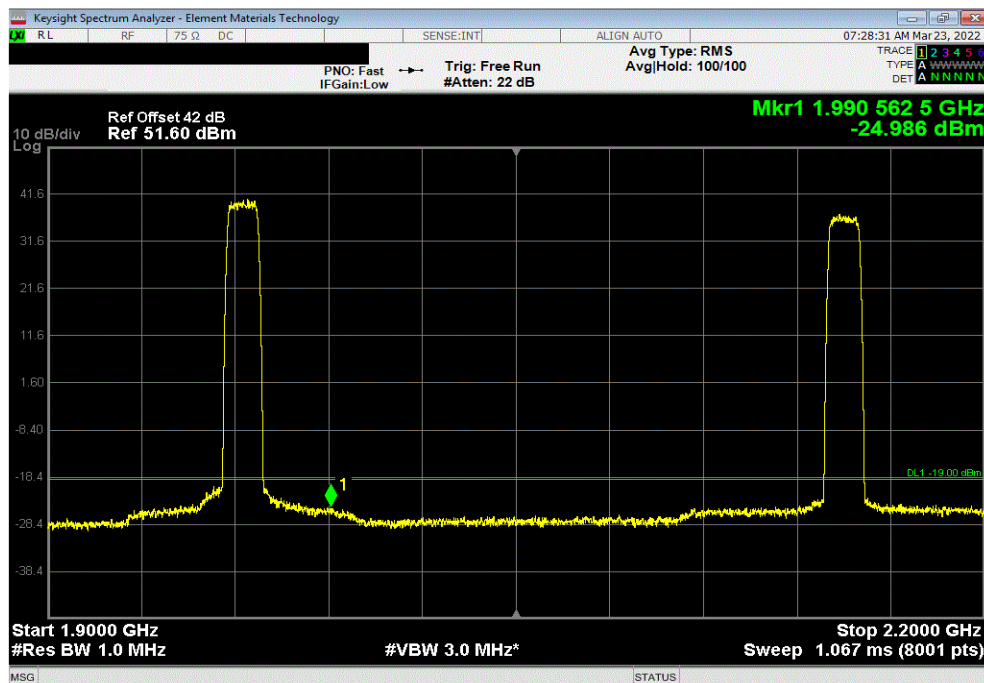


TbTtX 2022.03.14.0 XMR 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
20 MHz - 3.5 GHz	-25.25	-19	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
1.9 GHz - 2.2 GHz	-24.99	-19	Pass	



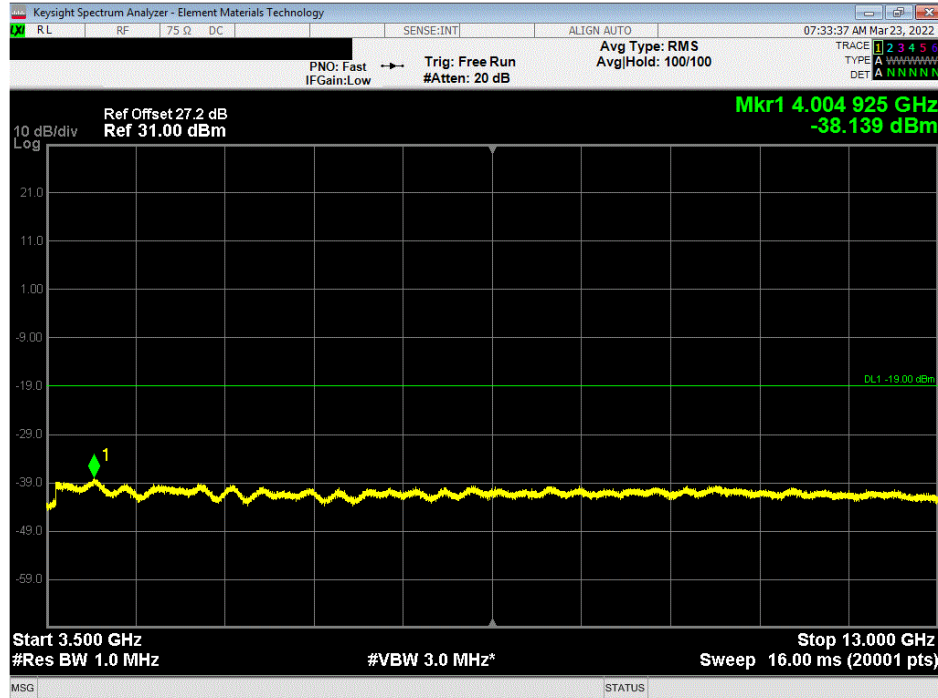
SPURIOUS CONDUCTED EMISSIONS



TbTx 2022.03.14.0 XMt 2022.02.07.0

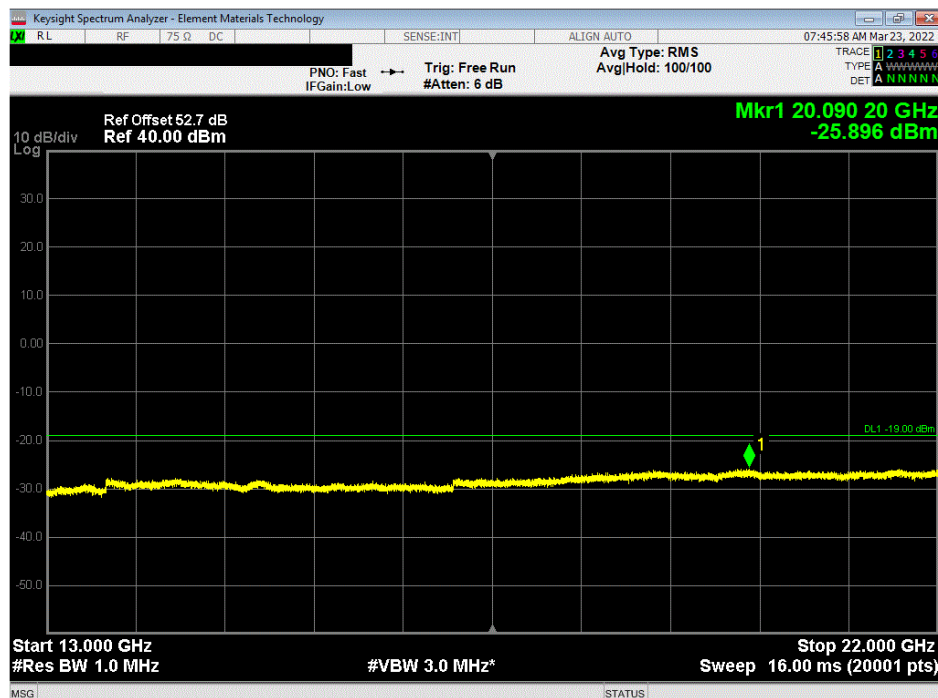
Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
3.5 GHz - 13 GHz	-38.14	-19	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
13 GHz - 22 GHz	-25.9	-19	Pass

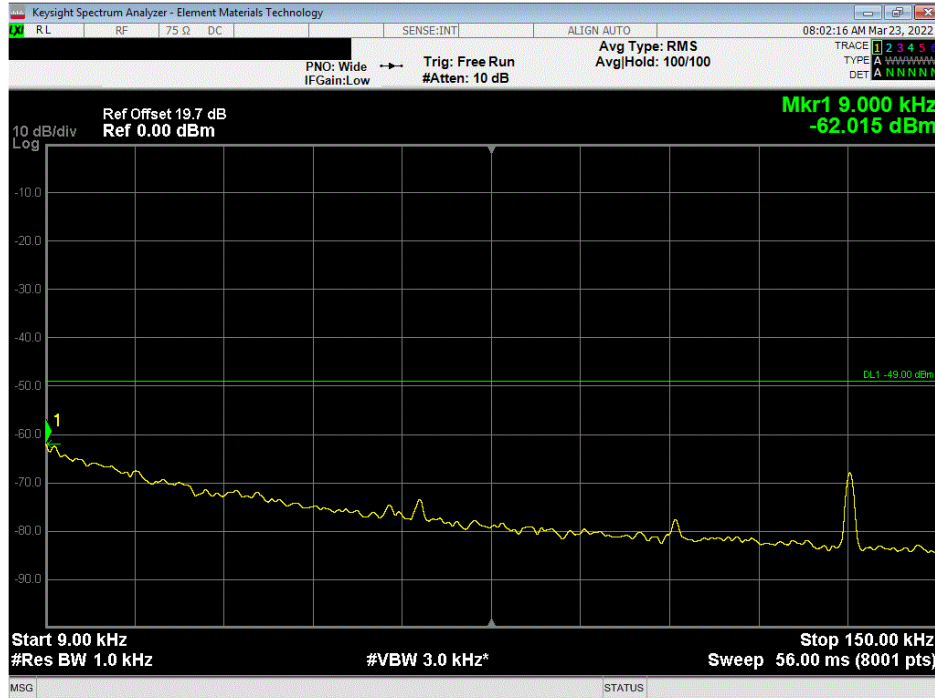


SPURIOUS CONDUCTED EMISSIONS

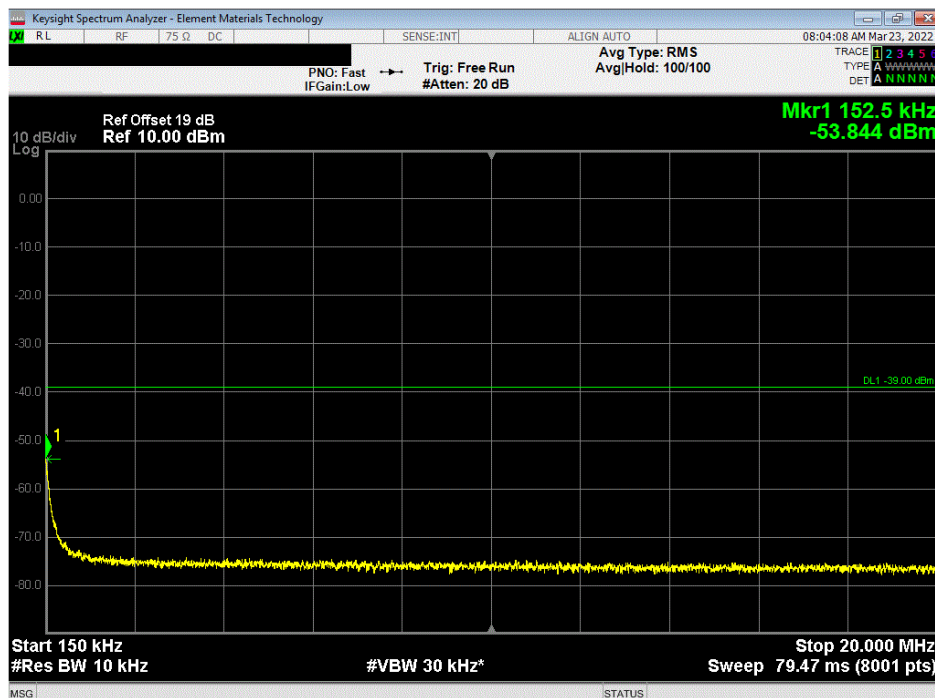


TbTx 2022.03.14.0 XMR 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz		-62.02	-49	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
150 kHz - 20 MHz		-53.84	-39	Pass	



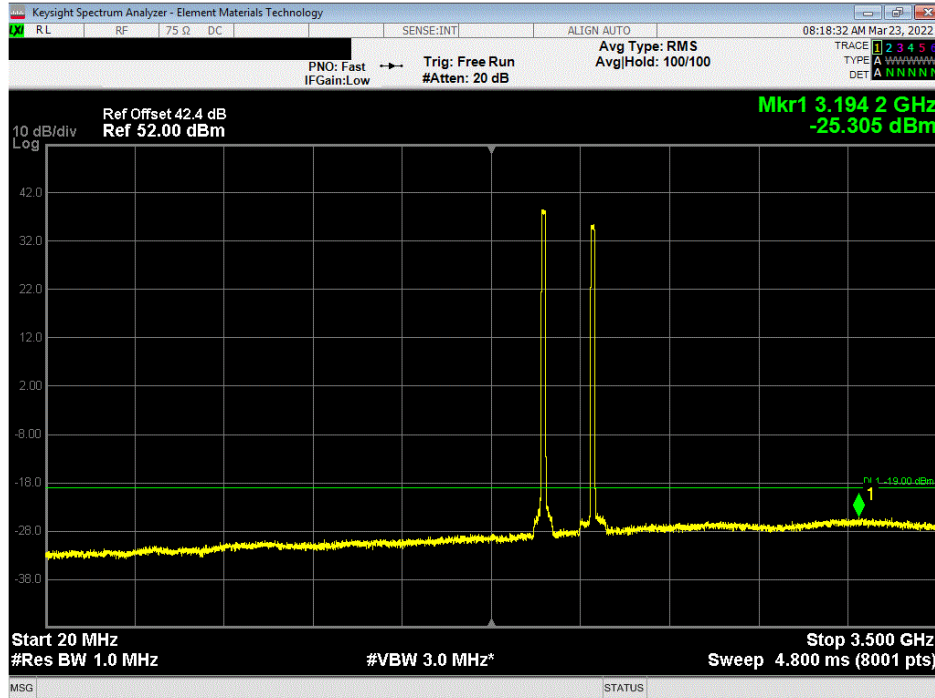
SPURIOUS CONDUCTED EMISSIONS



TMTx 2022.03.14.0 XMR 2022.02.07.0

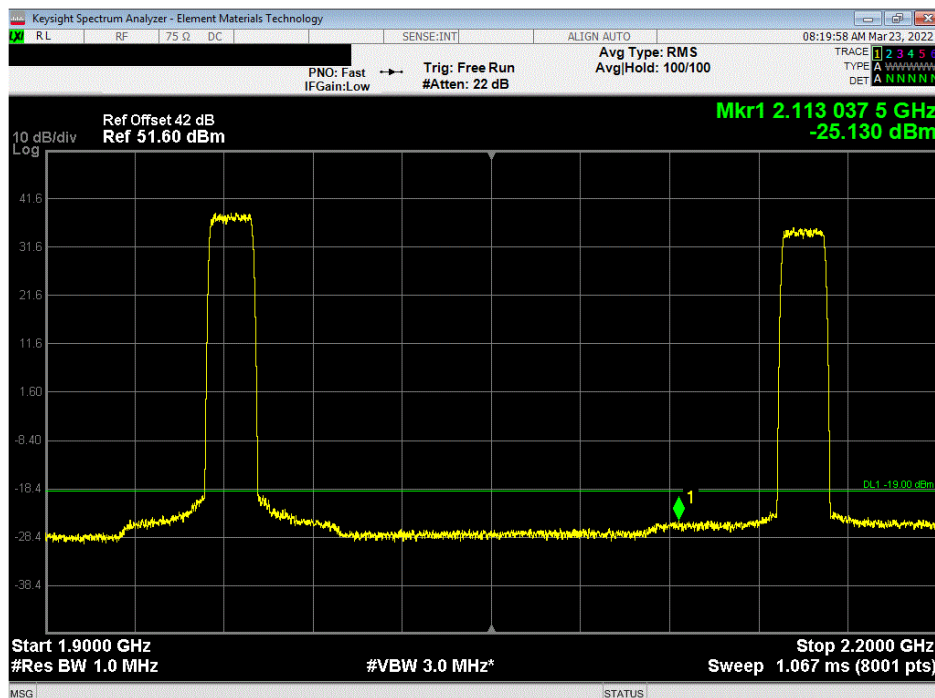
Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
20 MHz - 3.5 GHz	-25.31	-19	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
1.9 GHz - 2.2 GHz	-25.13	-19	Pass



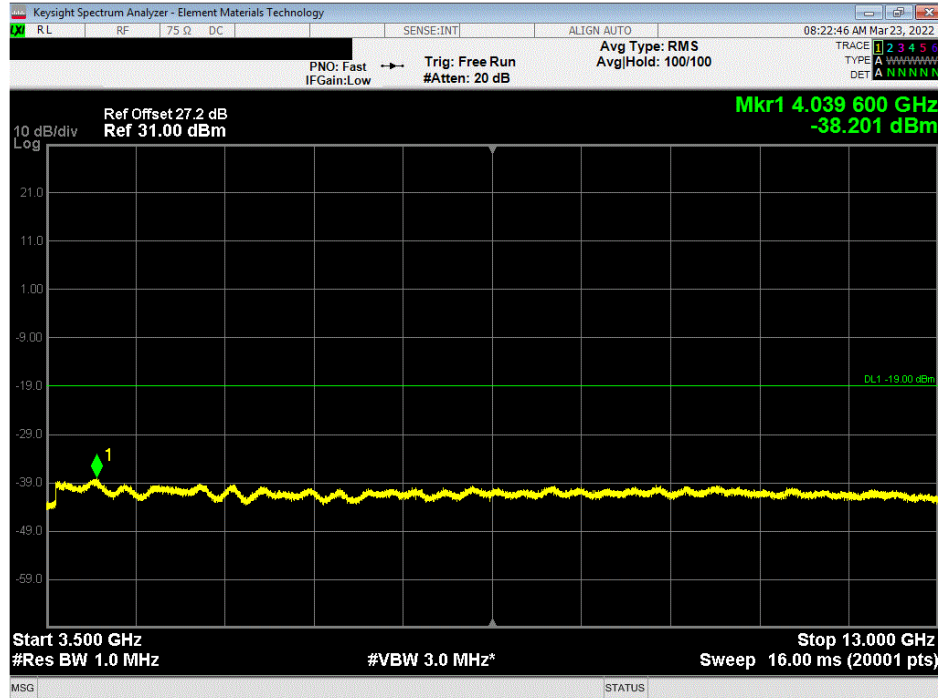
SPURIOUS CONDUCTED EMISSIONS



TMTx 2022.03.14.0 XMR 2022.02.07.0

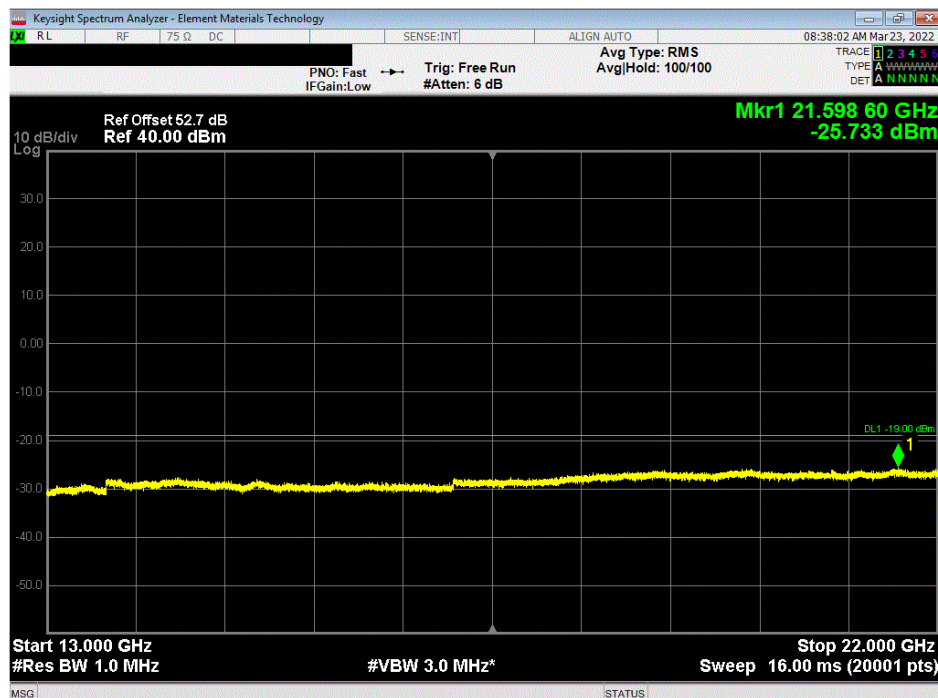
Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
3.5 GHz - 13 GHz	-38.2	-19	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
13 GHz - 22 GHz	-25.73	-19	Pass



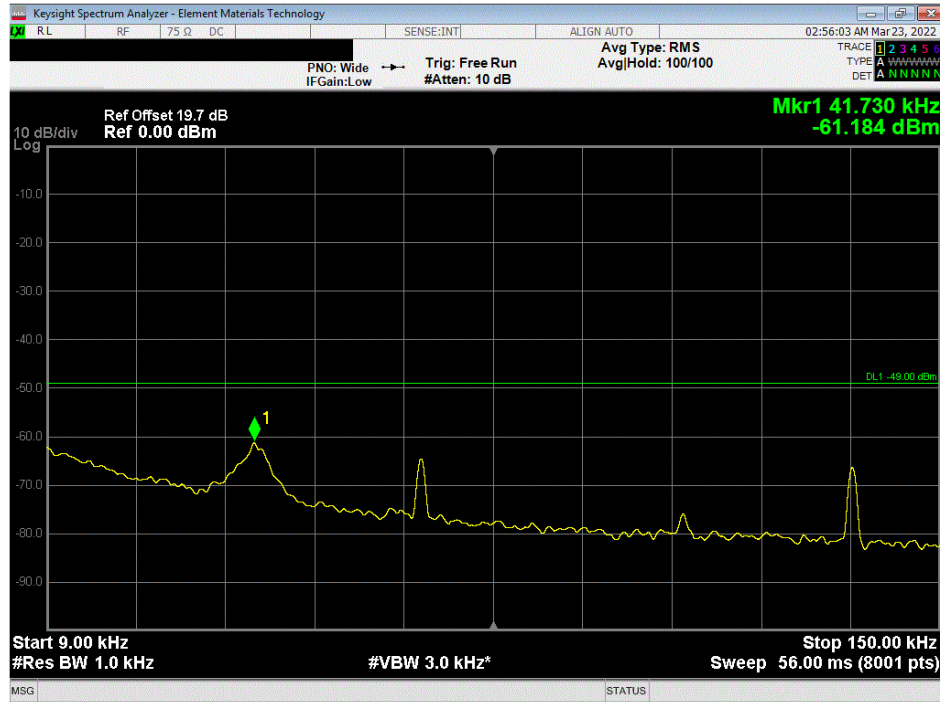
SPURIOUS CONDUCTED EMISSIONS



TbTx 2022.03.14.0 XMt 2022.02.07.0

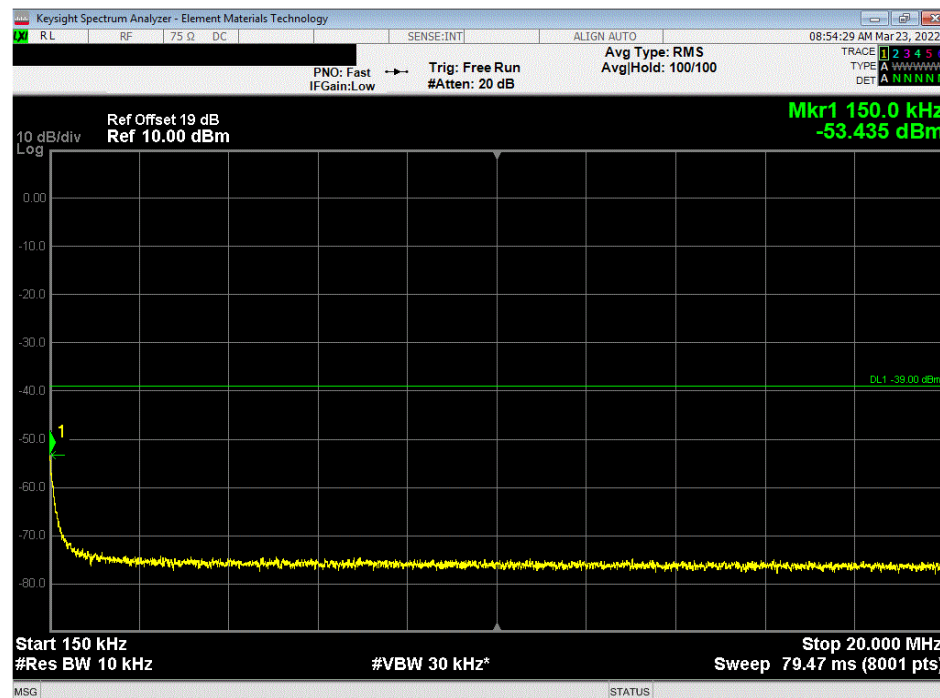
Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
9 kHz - 150 kHz	-61.184	-49	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
150 kHz - 20 MHz	-53.435	-39	Pass



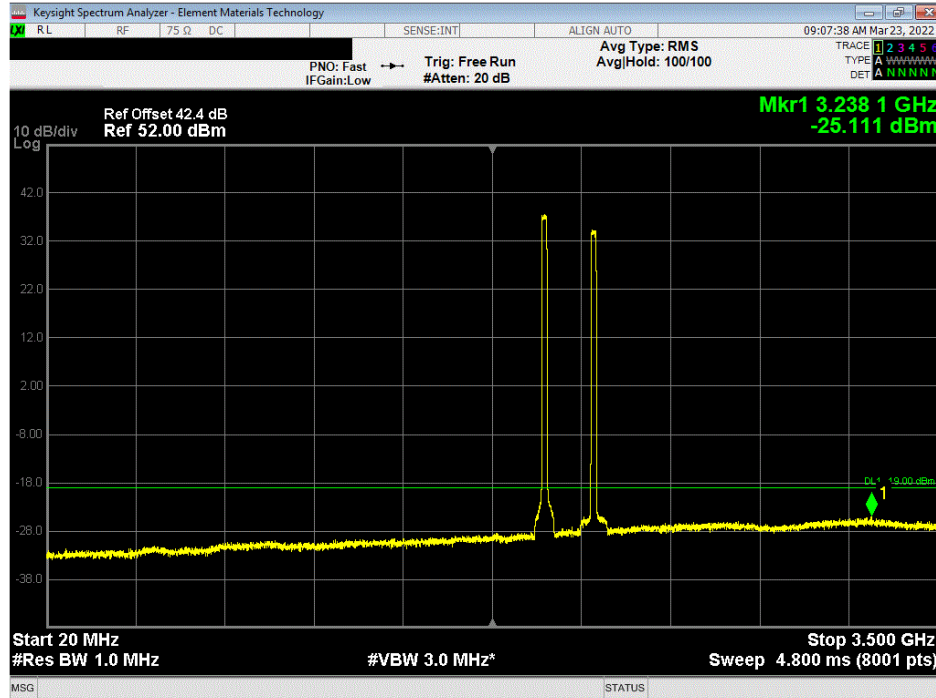
SPURIOUS CONDUCTED EMISSIONS



TMTx 2022.03.14.0 XMR 2022.02.07.0

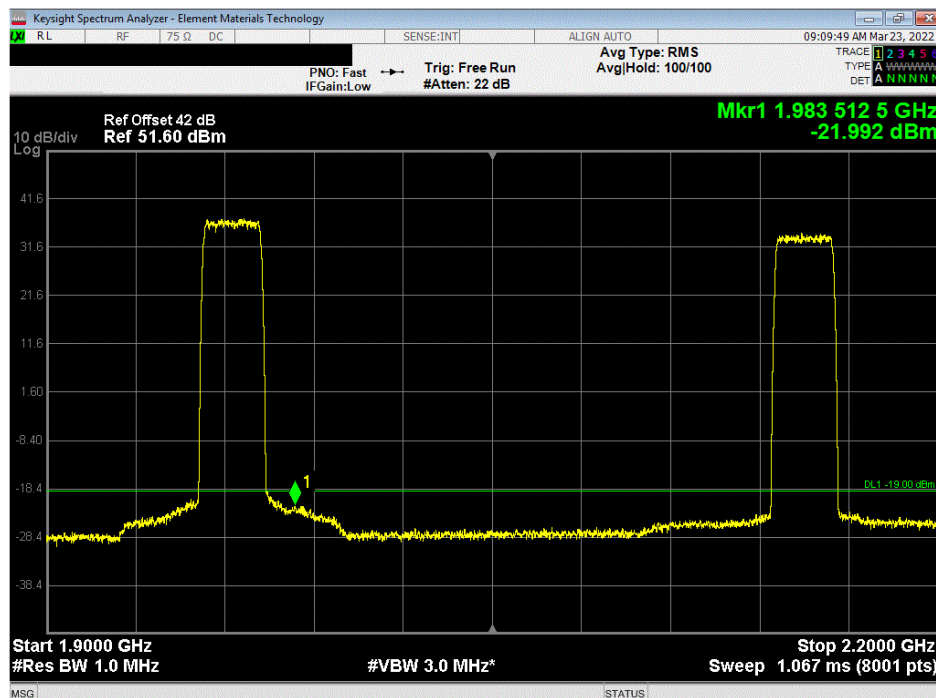
Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
20 MHz - 3.5 GHz	-25.11	-19	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
1.9 GHz - 2.2 GHz	-21.99	-19	Pass



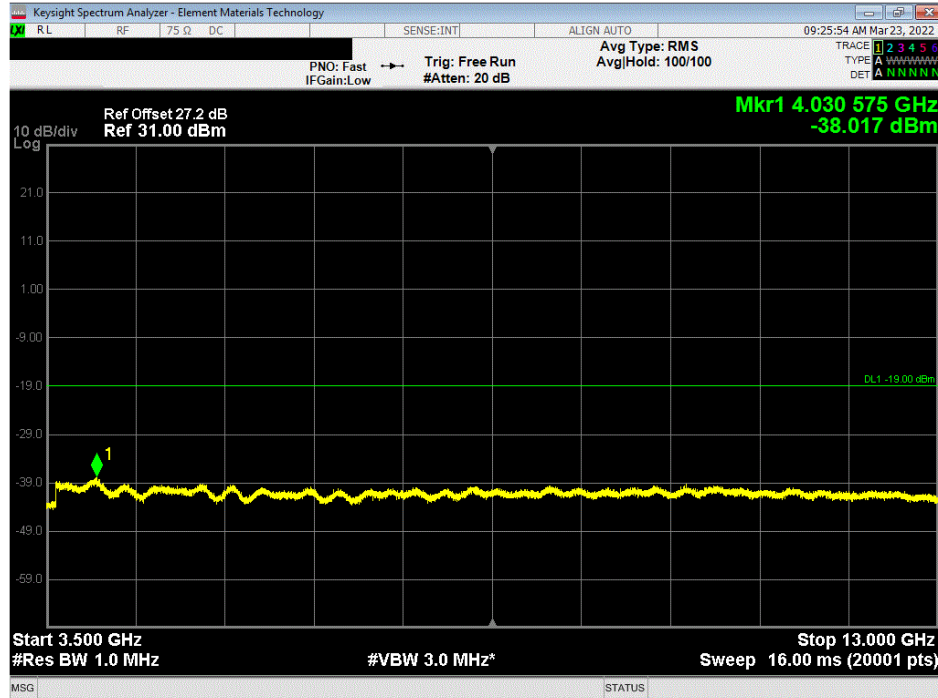
SPURIOUS CONDUCTED EMISSIONS



TbTx 2022.03.14.0 XMI 2022.02.07.0

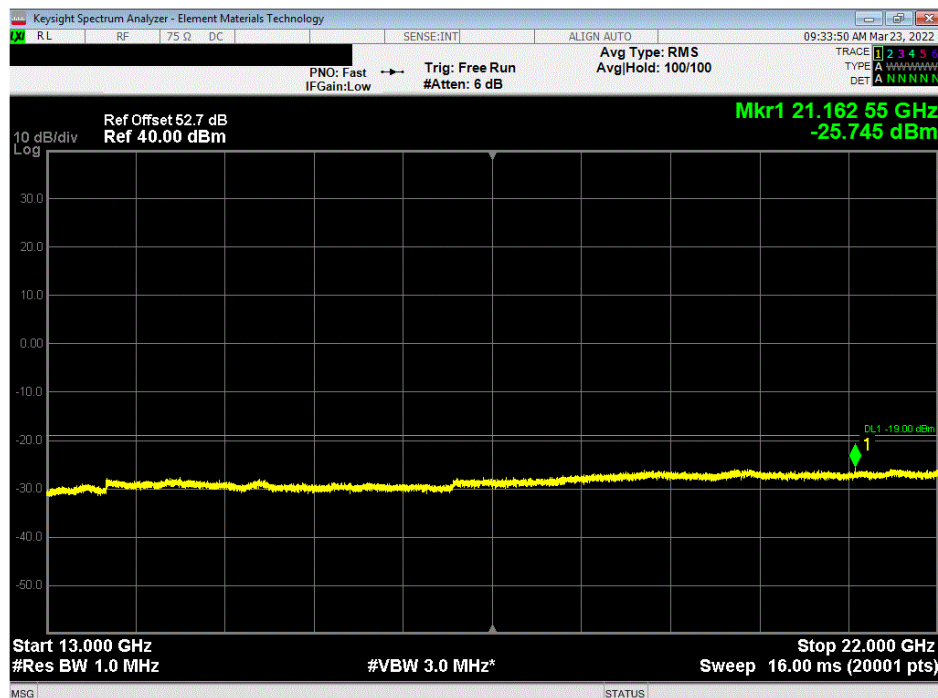
Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
3.5 GHz - 13 GHz	-38.02	-19	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
13 GHz - 22 GHz	-25.75	-19	Pass



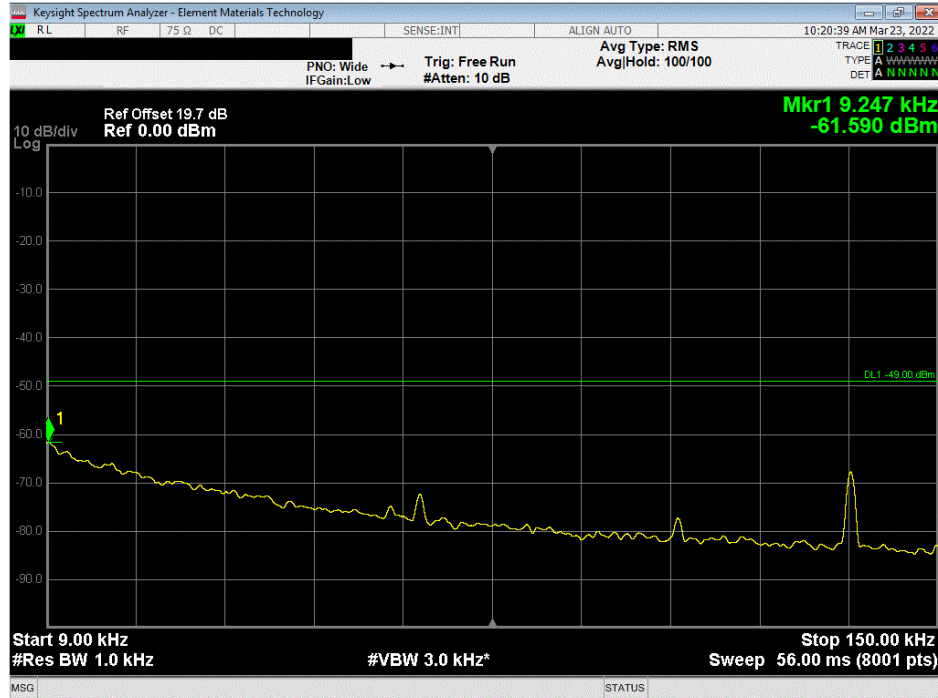
SPURIOUS CONDUCTED EMISSIONS



TMTx 2022.03.14.0 XMR 2022.02.07.0

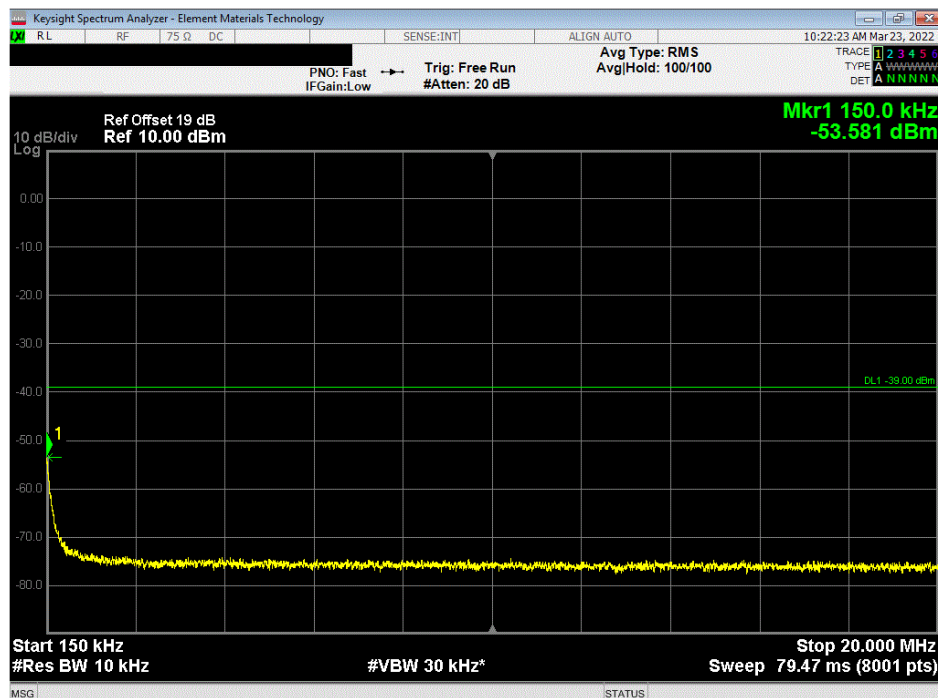
Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
9 kHz - 150 kHz	-61.59	-49	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
150 kHz - 20 MHz	-53.58	-39	Pass



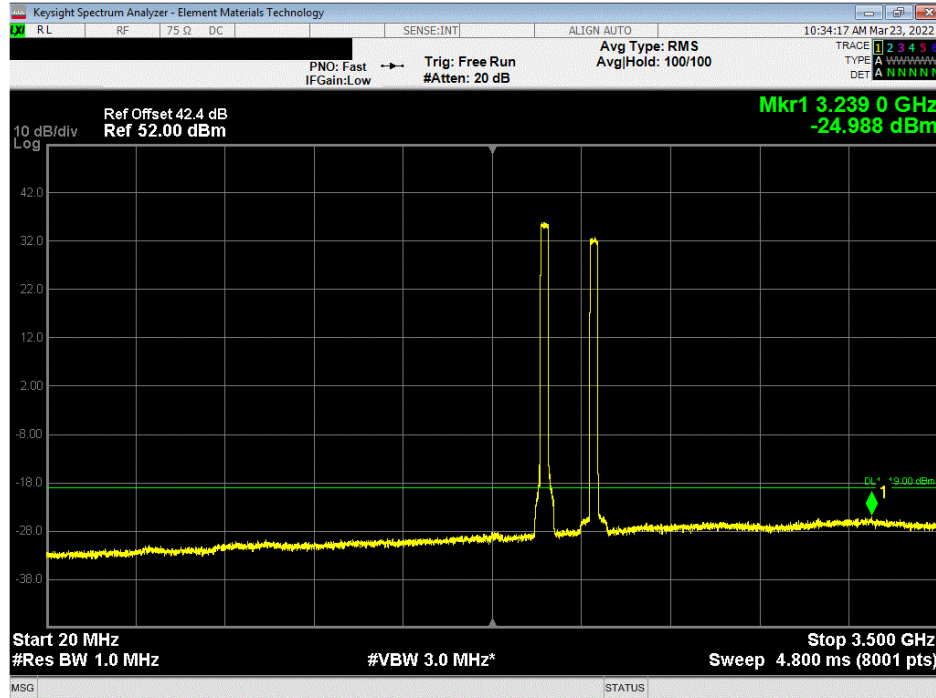
SPURIOUS CONDUCTED EMISSIONS



TMTx 2022.03.14.0 XMR 2022.02.07.0

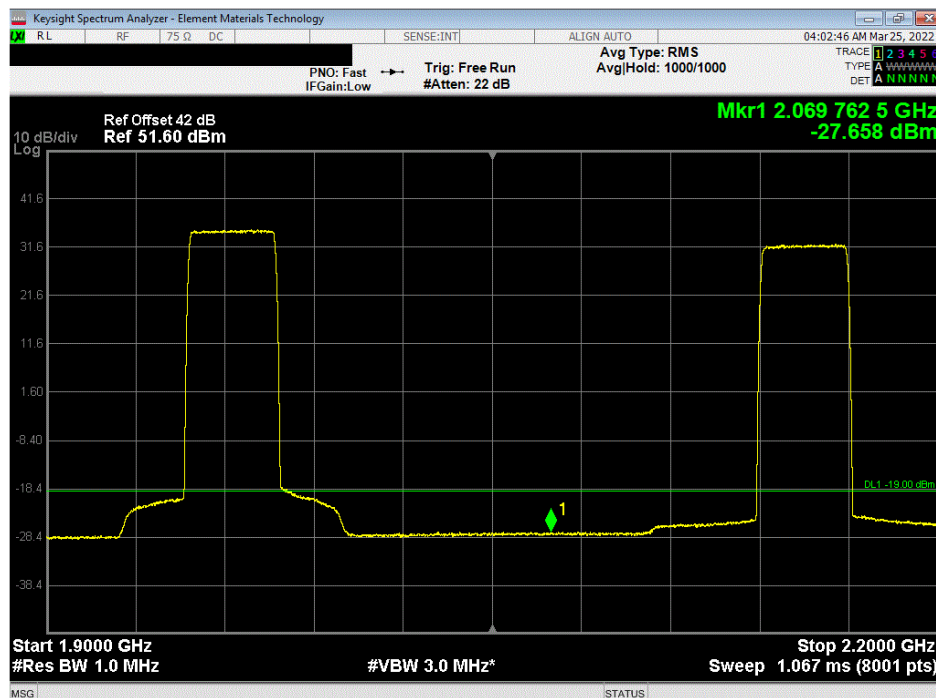
Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
20 MHz - 3.5 GHz	-24.99	-19	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
1.9 GHz - 2.2 GHz	-27.66	-19	Pass



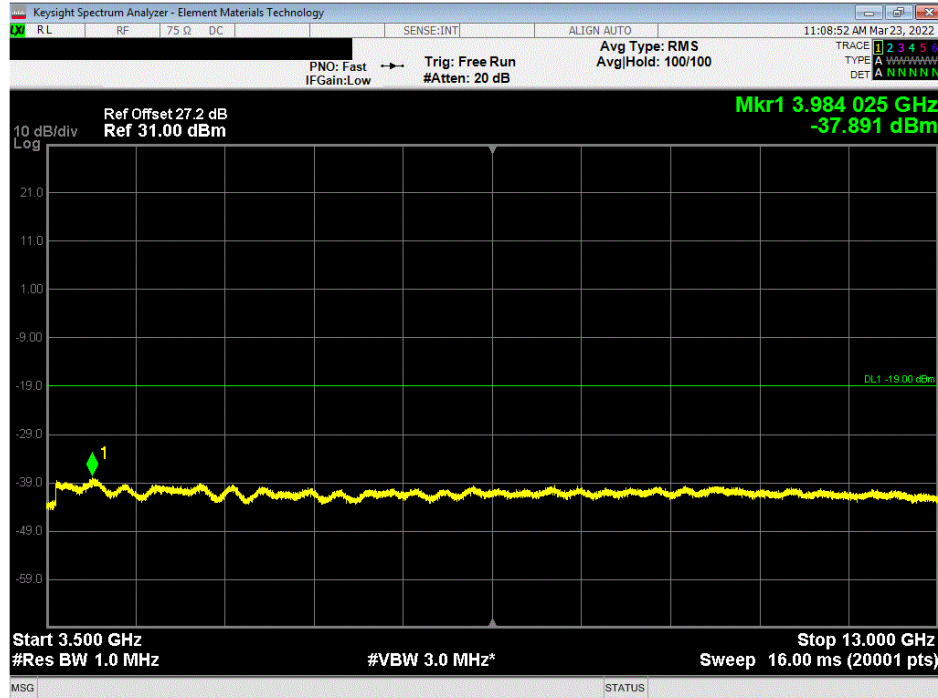
SPURIOUS CONDUCTED EMISSIONS



TMTx 2022.03.14.0 XMR 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
3.5 GHz - 13 GHz	-37.89	-19	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
13 GHz - 22 GHz	-25.84	-19	Pass

