

OCCUPIED BANDWIDTH

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

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The method in section 5.4 of ANSI C63.26 was used to make this measurement. The spectrum analyzer settings were as follows:

- RBW is 1% - 5% of the occupied bandwidth
- VBW is $\geq 3x$ the RBW
- Peak Detector was used
- Trace max hold was used

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHFII) as the original certification test. The AHFII antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna 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 occupied bandwidth was measured with the EUT configured in the modes called out in the data sheets.

FCC 24.238(b) and FCC 27.53(h)(3) defines the 26dB emission bandwidth requirement.

RSS GEN Section 6.7 defines the 99% emission bandwidth requirement.

FCC and ISED Emission Designators for Band n25 (1930MHz to 1995MHz)									
Ch BW	Radio Channel	5G-NR: QPSK		5G-NR: 16QAM		5G-NR: 64QAM		5G-NR: 256QAM	
		FCC	ISED	FCC	ISED	FCC	ISED	FCC	ISED
5MHz	Low							4M85G7W	4M49G7W
	Mid	4M86G7W	4M47G7W	4M84G7W	4M50G7W	4M84G7W	4M47G7W	4M85G7W	4M48G7W
	High							4M82G7W	4M47G7W
10MHz	Low							9M99G7W	9M34G7W
	Mid	9M92G7W	9M29G7W	9M88G7W	9M24G7W	9M91G7W	9M29G7W	9M93G7W	9M32G7W
	High							9M94G7W	9M30G7W
15MHz	Low							14M9G7W	14M1G7W
	Mid	14M9G7W	14M1G7W	14M9G7W	14M2G7W	14M9G7W	14M1G7W	14M9G7W	14M1G7W
	High							14M9G7W	14M1G7W
20MHz	Low							20M0G7W	18M9G7W
	Mid	20M0G7W	18M9G7W	20M0G7W	19M0G7W	20M0G7W	19M0G7W	20M0G7W	18M9G7W
	High							20M0G7W	18M9G7W
30MHz	Low							30M1G7W	28M6G7W
	Mid	30M0G7W	28M6G7W	30M0G7W	28M5G7W	30M1G7W	28M6G7W	30M1G7W	28M6G7W
	High							30M1G7W	28M6G7W
Note: FCC emission designators are based on 26dB emission bandwidth. ISED emission designators are based on 99% emission bandwidth.									

FCC and ISED Emission Designators for Band n66 (2110MHz to 2200MHz)									
Ch BW	Radio Channel	5G-NR: QPSK		5G-NR: 16QAM		5G-NR: 64QAM		5G-NR: 256QAM	
		FCC	ISED	FCC	ISED	FCC	ISED	FCC	ISED
5MHz	Low							4M84G7W	4M48G7W
	Mid	4M83G7W	4M49G7W	4M83G7W	4M51G7W	4M87G7W	4M50G7W	4M85G7W	4M48G7W
	High							4M84G7W	4M48G7W
10MHz	Low							9M91G7W	9M31G7W
	Mid	9M92G7W	9M30G7W	9M86G7W	9M24G7W	9M92G7W	9M30G7W	9M92G7W	9M31G7W
	High							9M94G7W	9M31G7W
15MHz	Low							14M9G7W	14M1G7W
	Mid	14M9G7W	14M1G7W	14M9G7W	14M1G7W	14M9G7W	14M1G7W	14M9G7W	14M1G7W
	High							14M9G7W	14M1G7W
20MHz	Low							20M0G7W	18M9G7W
	Mid	20M0G7W	18M9G7W	20M0G7W	19M0G7W	20M0G7W	19M0G7W	20M0G7W	18M9G7W
	High							20M0G7W	18M9G7W
30MHz	Low							30M1G7W	28M6G7W
	Mid	30M1G7W	28M5G7W	30M0G7W	28M4G7W	30M1G7W	28M6G7W	30M1G7W	28M6G7W
	High							30M0G7W	28M6G7W
Note: FCC emission designators are based on 26dB emission bandwidth. ISED emission designators are based on 99% emission bandwidth.									

OCCUPIED BANDWIDTH



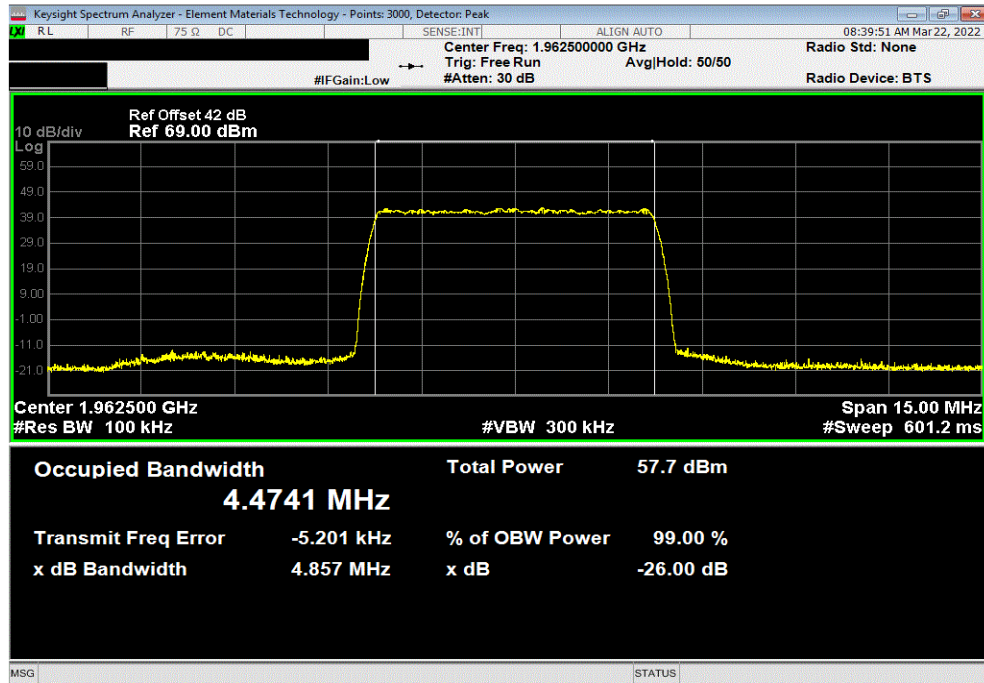
EUT: AHFI Remote Radio Head		Work Order: NOKI0038
Serial Number: YK214000035		Date: 18-Mar-22
Customer: Nokia of America Corporation		Temperature: 21.2 °C
Attendees: Mitchell Hill		Humidity: 28.9% RH
Project: None		Barometric Pres.: 1018 mbar
Tested by: Brandon Hobbs	Power: 54 VDC	Job Site: TX06
TEST SPECIFICATIONS		Test Method
FCC 24E:2022		ANSI C63.26:2015
RSS-133 Issue 6:2013+A1:2018		RSS-133 Issue 6:2013+A1:2018
COMMENTS		
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. Band n25 carriers are enabled at maximum power (80 watts/carrier).		
DEVIATIONS FROM TEST STANDARD		
None		
Configuration #	2	Signature
		Value 99% (MHz) Value 26dB (MHz) Limit Result
Band n25, 1930 MHz - 1995 MHz, 5G NR		
Port 1		
5 MHz Bandwidth		
QPSK Modulation		
Mid Channel, 1962.5 MHz		
16-QAM Modulation		
Mid Channel, 1962.5 MHz		
64-QAM Modulation		
Mid Channel, 1962.5 MHz		
256-QAM Modulation		
Low Channel, 1932.5 MHz		
Mid Channel, 1962.5 MHz		
High Channel, 1992.5 MHz		
10 MHz Bandwidth		
QPSK Modulation		
Mid Channel, 1962.5 MHz		
16-QAM Modulation		
Mid Channel, 1962.5 MHz		
64-QAM Modulation		
Mid Channel, 1962.5 MHz		
256-QAM Modulation		
Low Channel, 1935 MHz		
Mid Channel, 1962.5 MHz		
High Channel, 1990 MHz		
15 MHz Bandwidth		
QPSK Modulation		
Mid Channel, 1962.5 MHz		
16-QAM Modulation		
Mid Channel, 1962.5 MHz		
64-QAM Modulation		
Mid Channel, 1962.5 MHz		
256-QAM Modulation		
Low Channel, 1937.5 MHz		
Mid Channel, 1962.5 MHz		
High Channel, 1987.5 MHz		
20 MHz Bandwidth		
QPSK Modulation		
Mid Channel, 1962.5 MHz		
16-QAM Modulation		
Mid Channel, 1962.5 MHz		
64-QAM Modulation		
Mid Channel, 1962.5 MHz		
256-QAM Modulation		
Low Channel, 1940 MHz		
Mid Channel, 1962.5 MHz		
High Channel, 1985 MHz		
30 MHz Bandwidth		
QPSK Modulation		
Mid Channel, 1962.5 MHz		
16-QAM Modulation		
Mid Channel, 1962.5 MHz		
64-QAM Modulation		
Mid Channel, 1962.5 MHz		
256-QAM Modulation		
Low Channel, 1945 MHz		
Mid Channel, 1962.5 MHz		
High Channel, 1980 MHz		

OCCUPIED BANDWIDTH

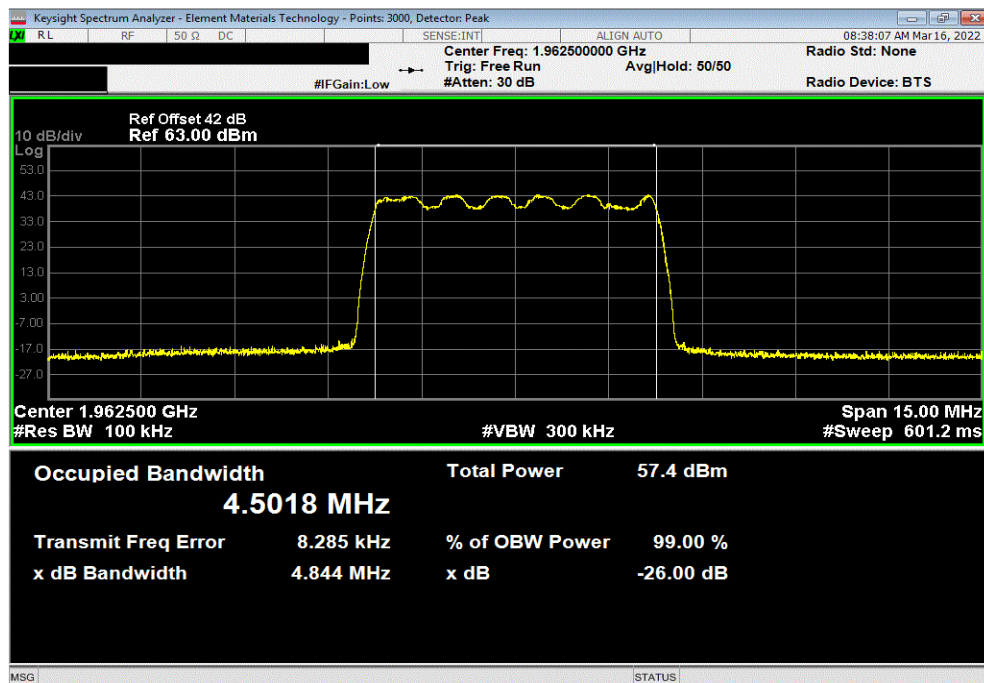


TbTx 2021.12.14.1 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			4.474	4.857	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			4.502	4.844	Within Band		Pass

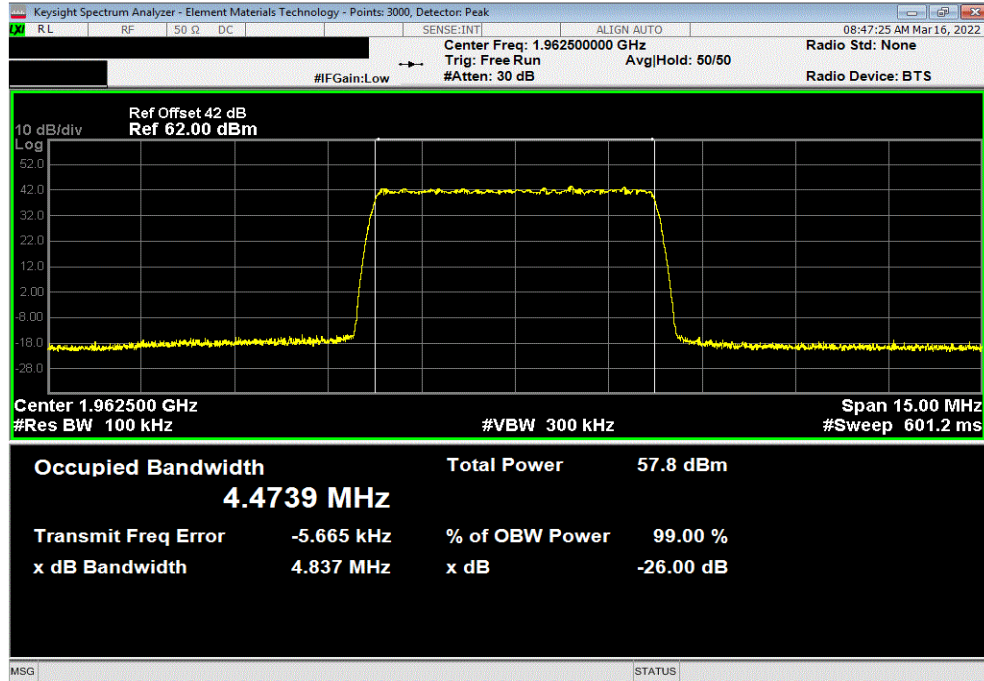


OCCUPIED BANDWIDTH

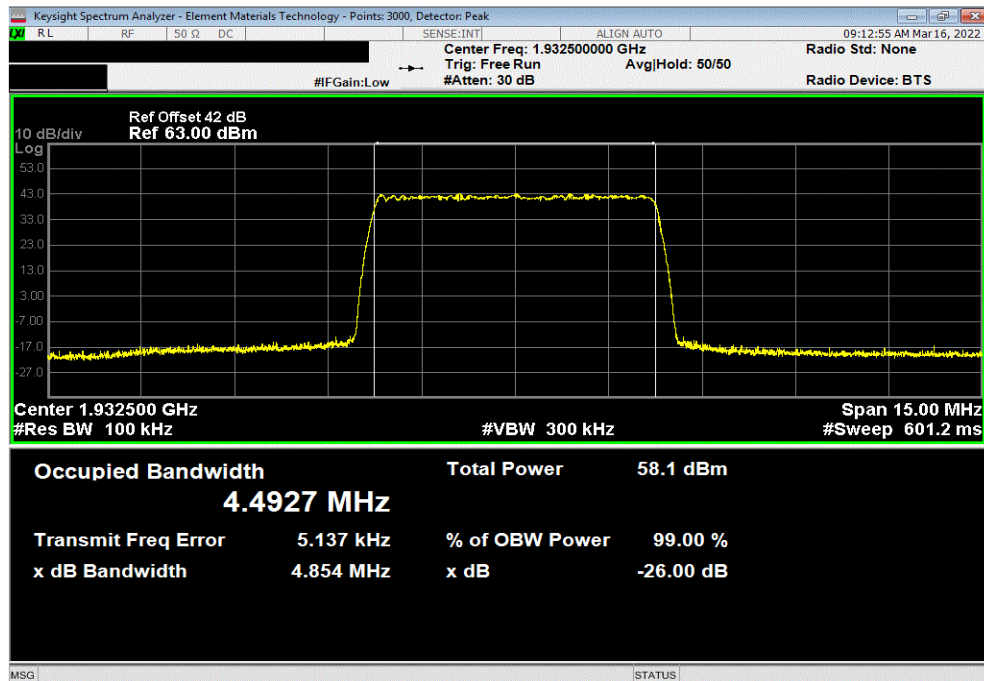


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			4.474	4.837	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1932.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			4.493	4.854	Within Band		Pass

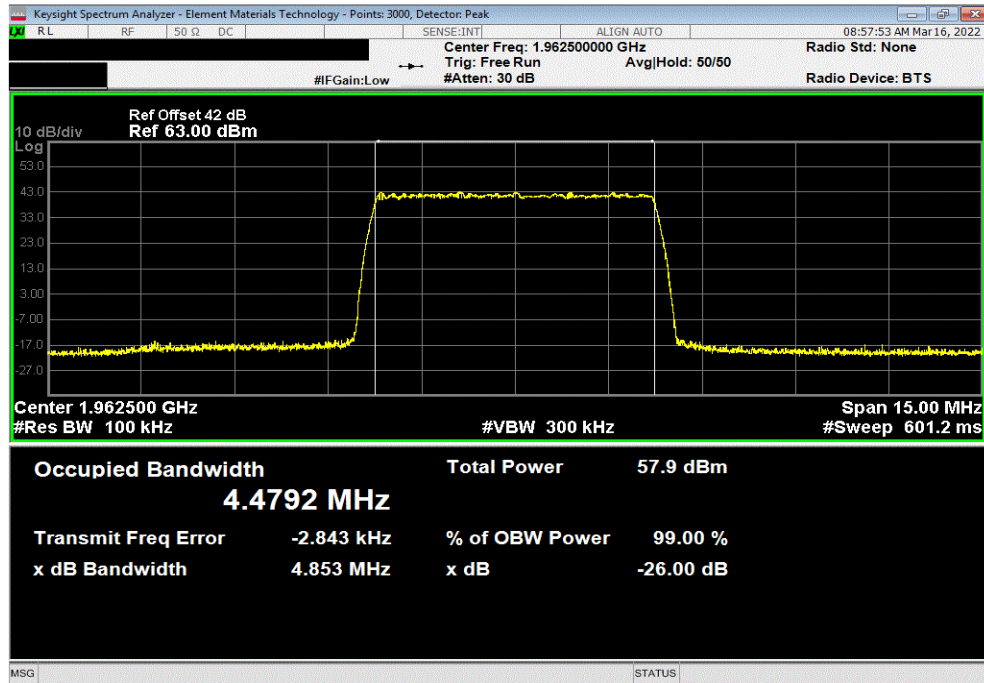


OCCUPIED BANDWIDTH

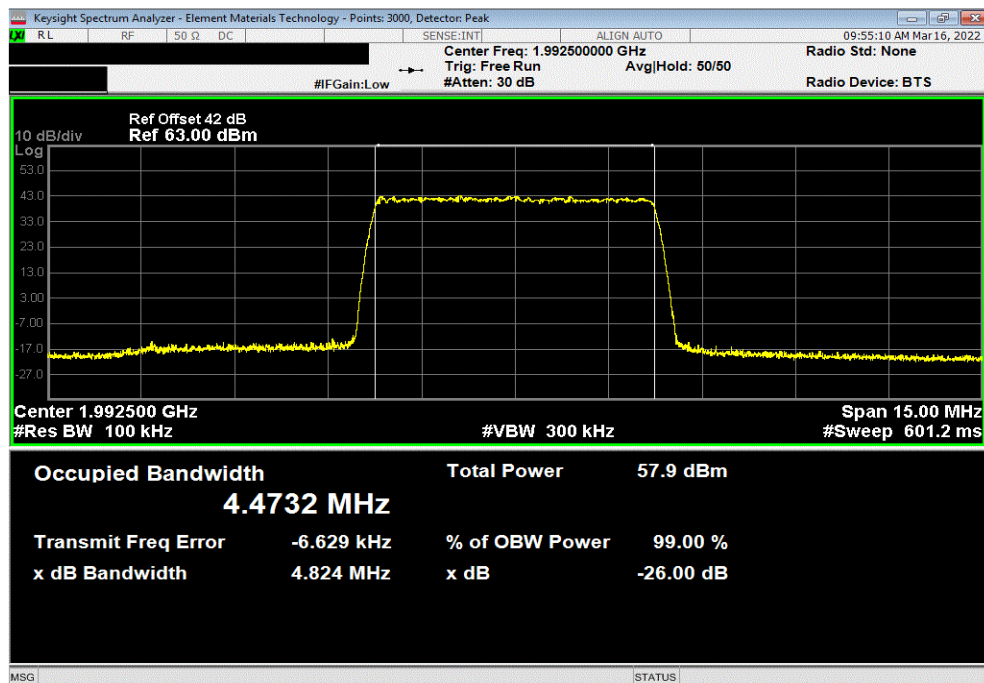


TbTx 2021.12.14.1 XbTx 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			4.479	4.853	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 1992.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			4.473	4.824	Within Band		Pass

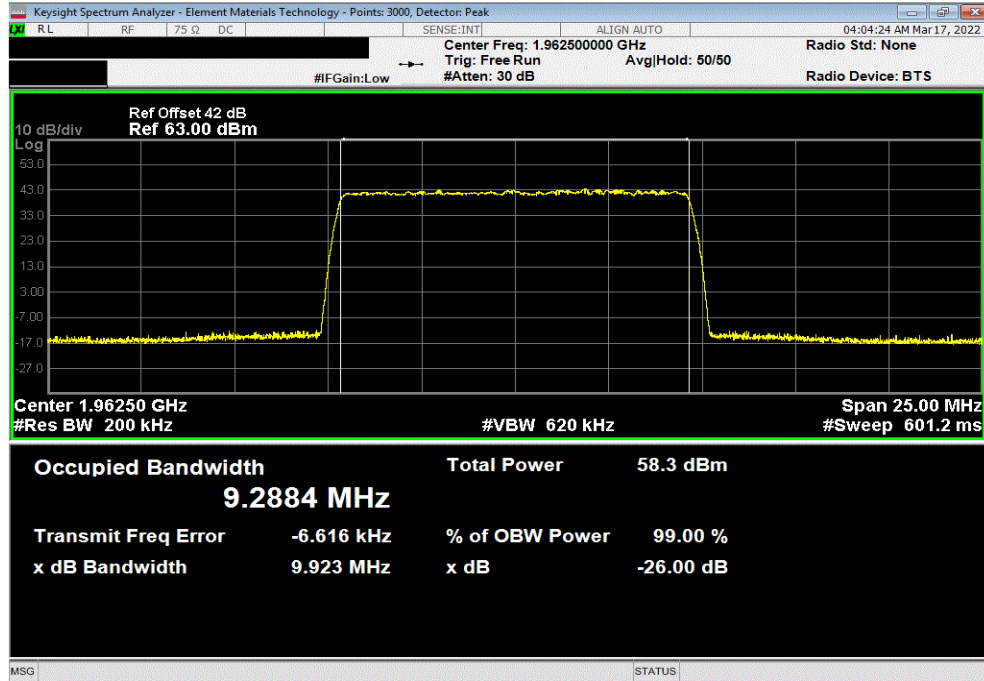


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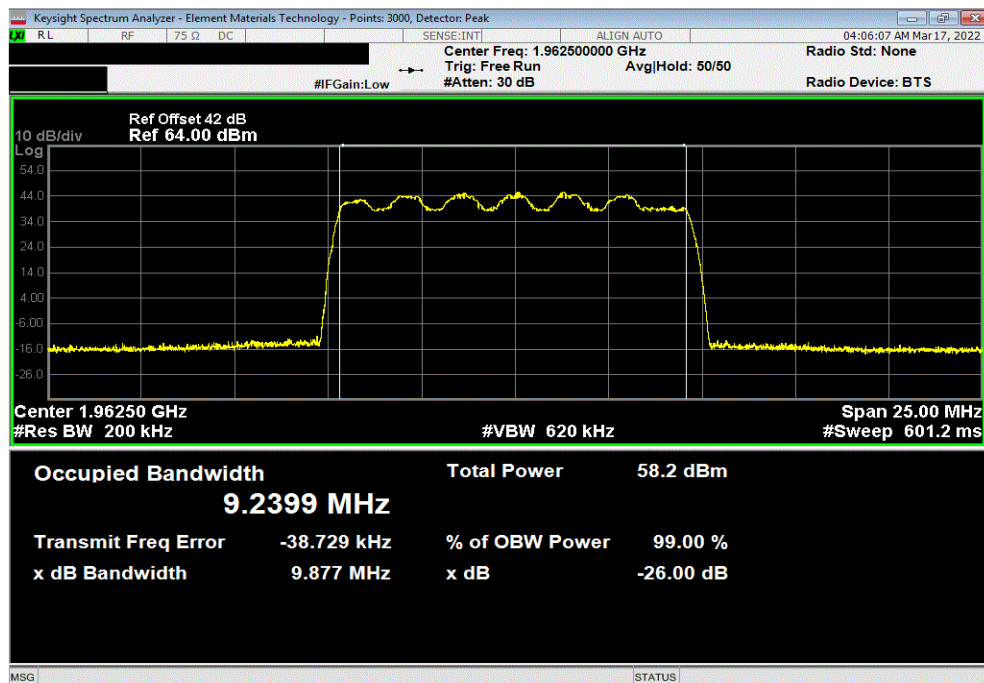


TbTx 2021.12.14.1 XMt 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	9.288	9.923	Within Band	Pass		



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	9.24	9.877	Within Band	Pass		

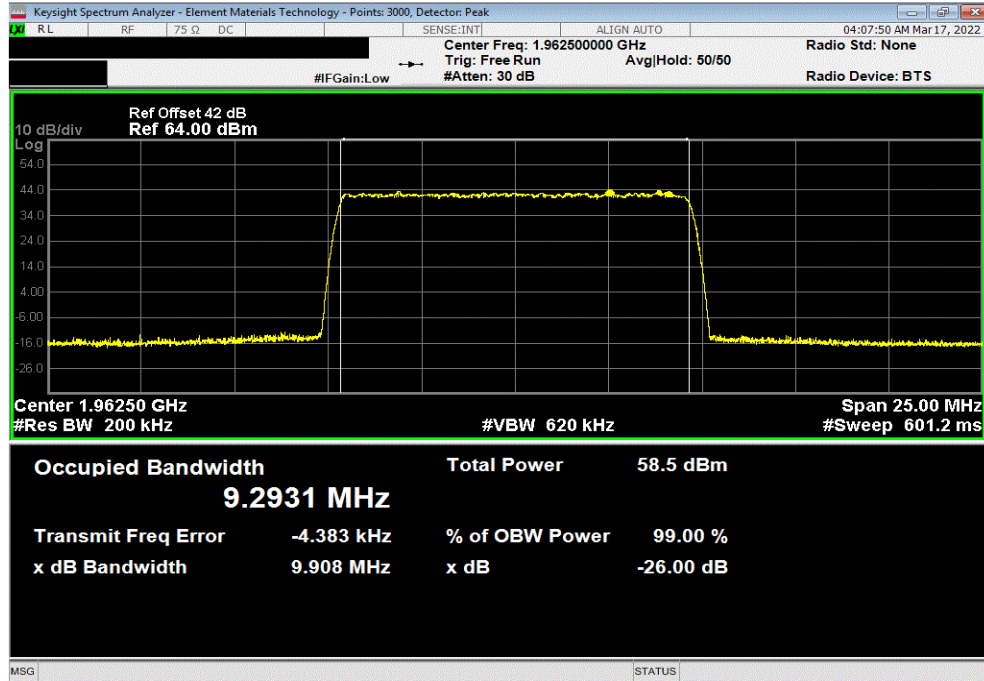


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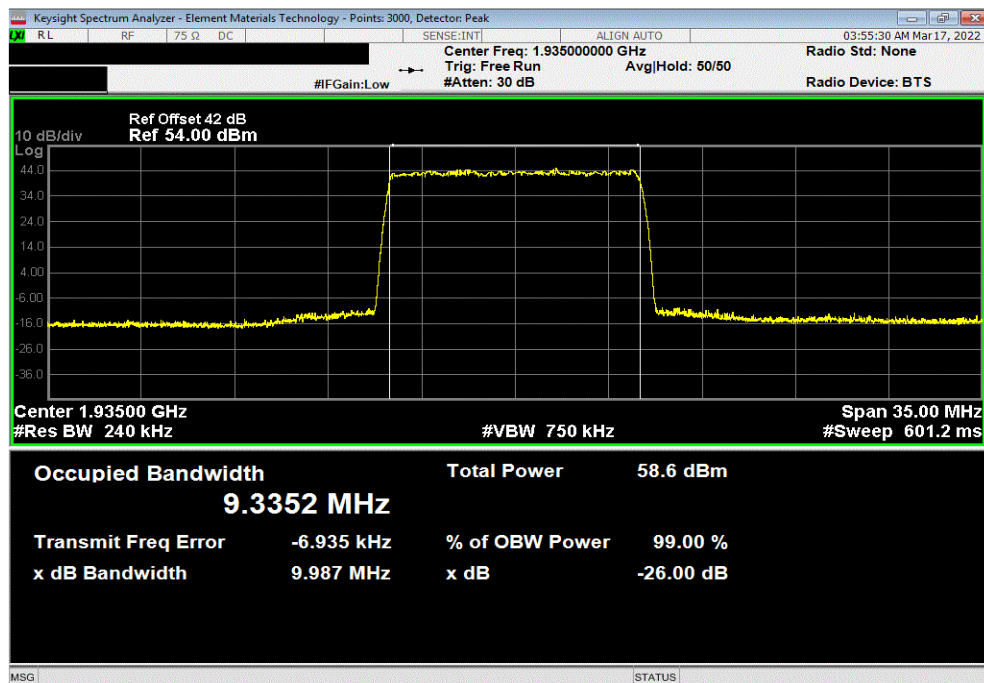


TbTx 2021.12.14.1 XbTx 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz						
	Value	Value				
	99% (MHz)	26dB (MHz)	Limit			Result
	9.293	9.908	Within Band			Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1935 MHz						
	Value	Value				
	99% (MHz)	26dB (MHz)	Limit			Result
	9.335	9.987	Within Band			Pass

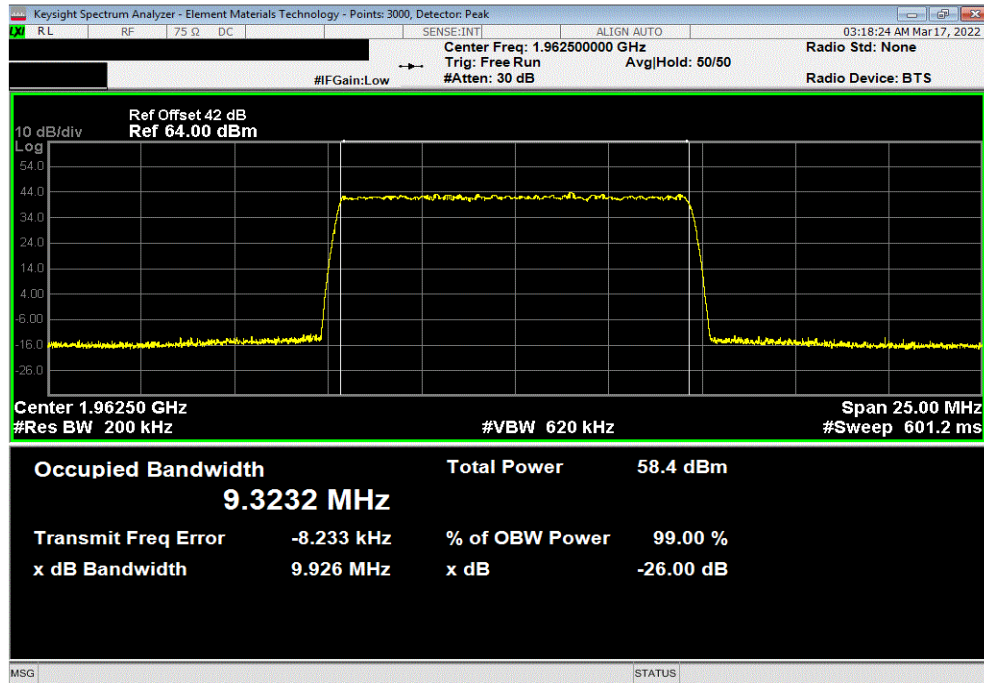


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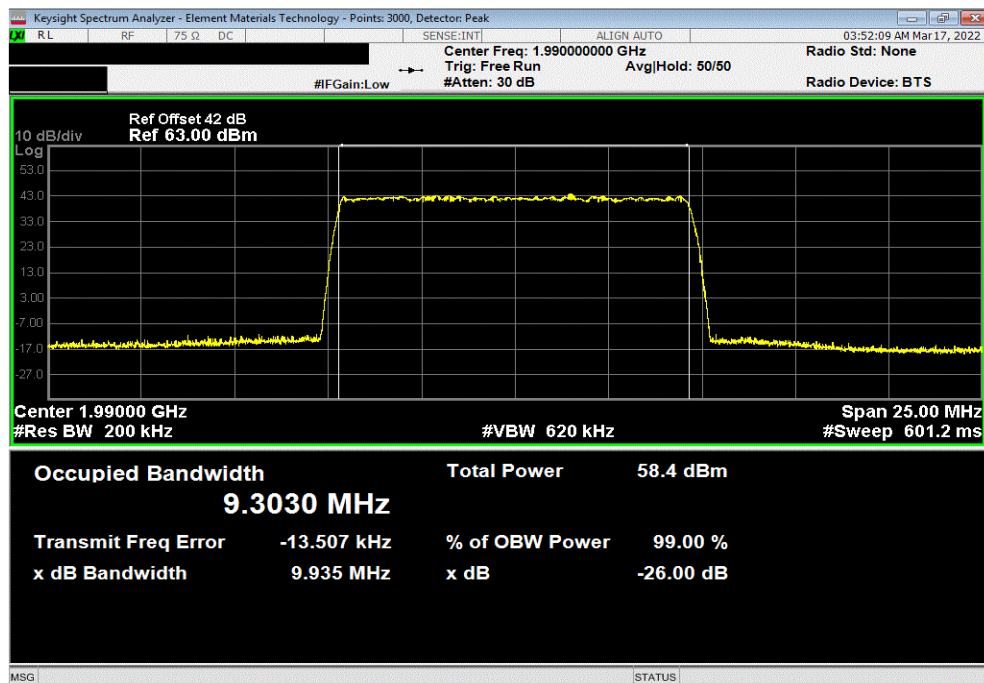


TbTx 2021.12.14.1 XMill 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			9.323	9.926	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 1990 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			9.303	9.935	Within Band		Pass

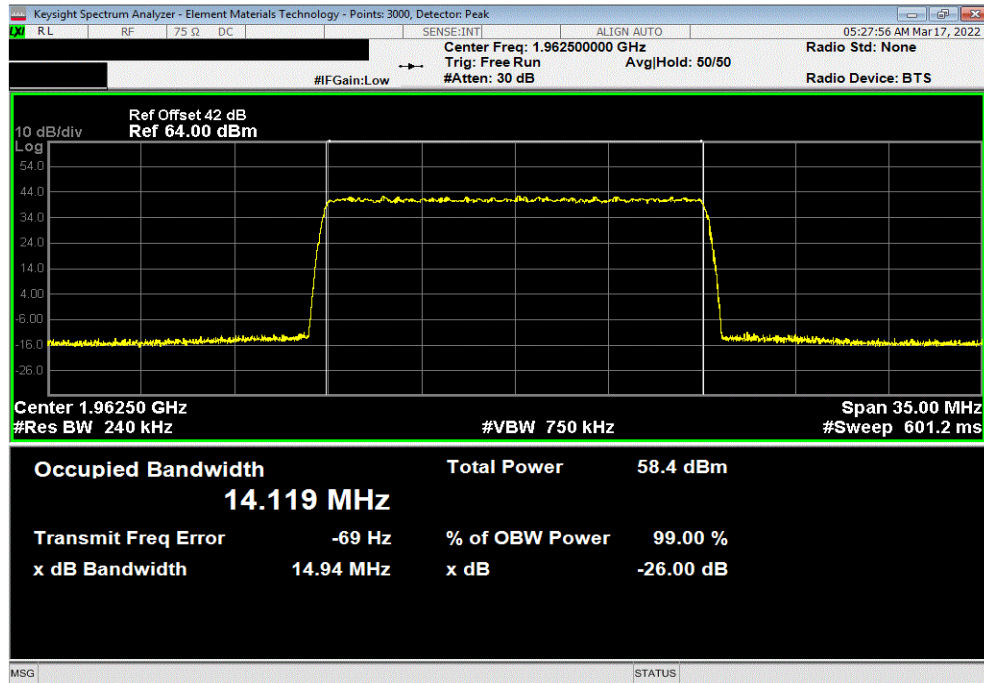


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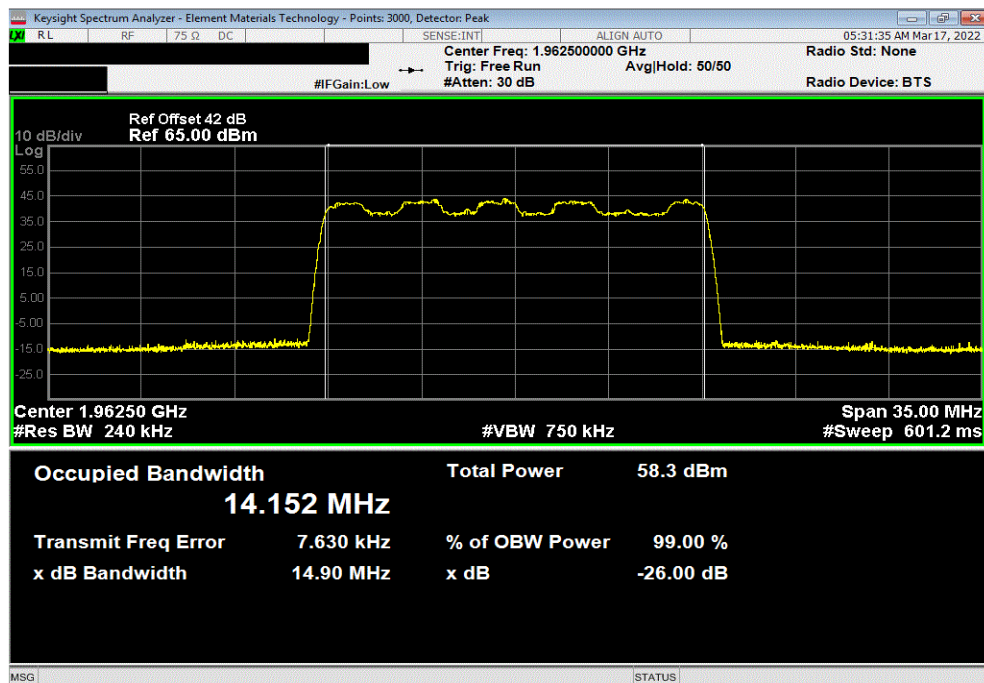


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.119	14.935	Within Band	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.152	14.896	Within Band	Pass	

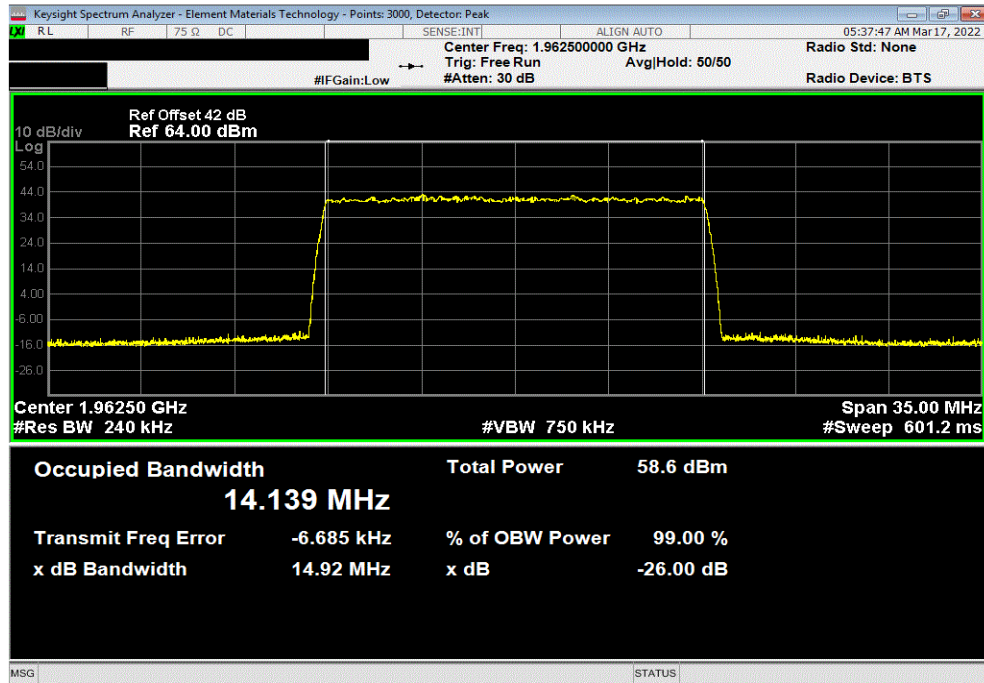


OCCUPIED BANDWIDTH

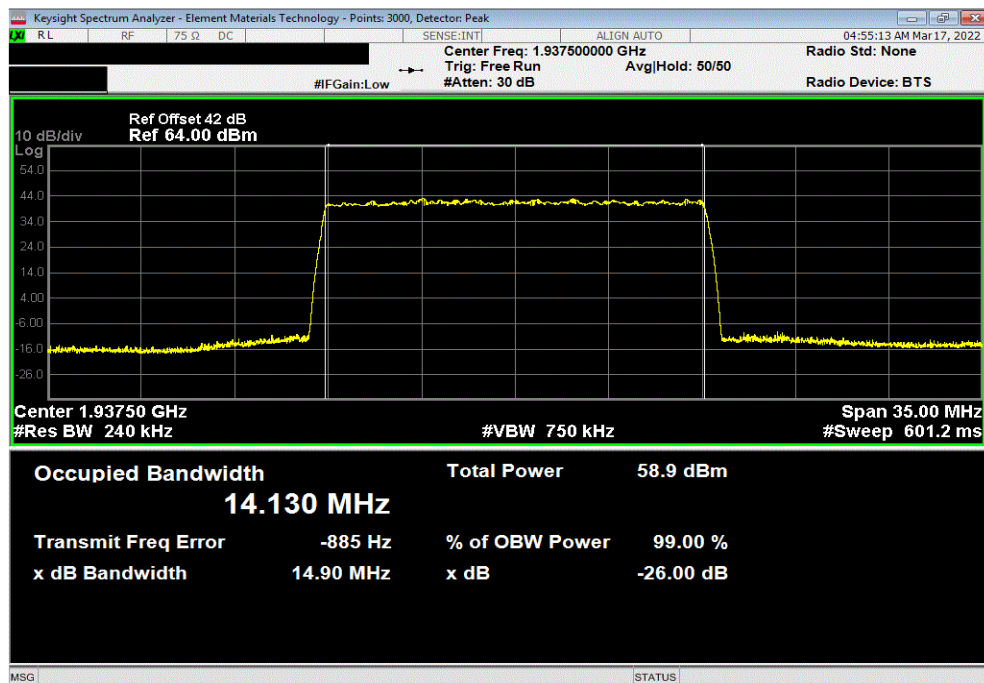


TbTx 2021.12.14.1 XbTx 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			14.139	14.915	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1937.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			14.13	14.902	Within Band		Pass

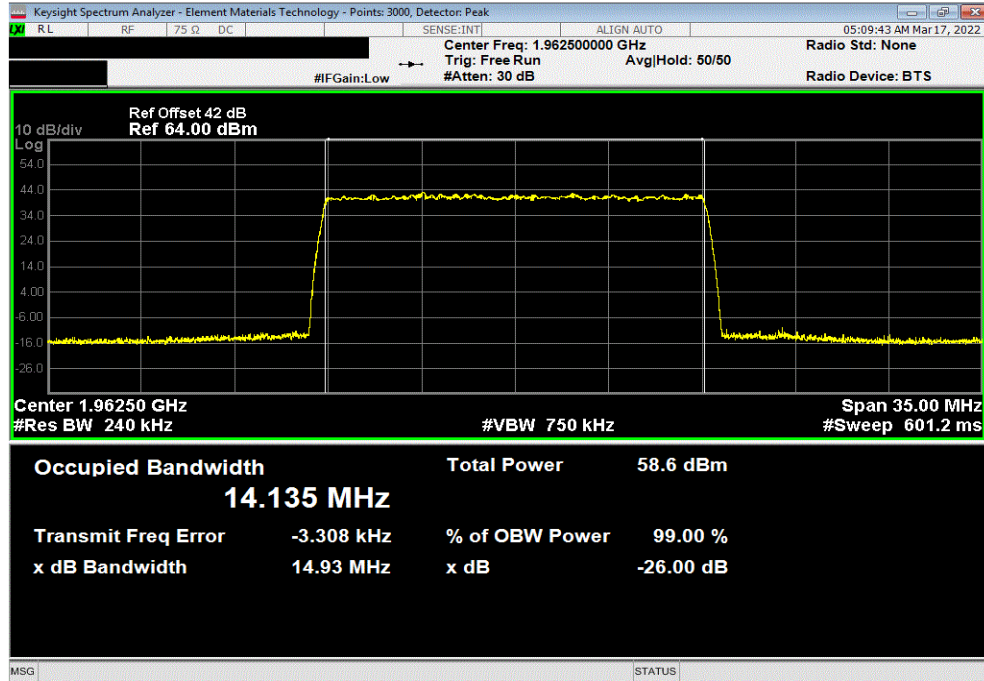


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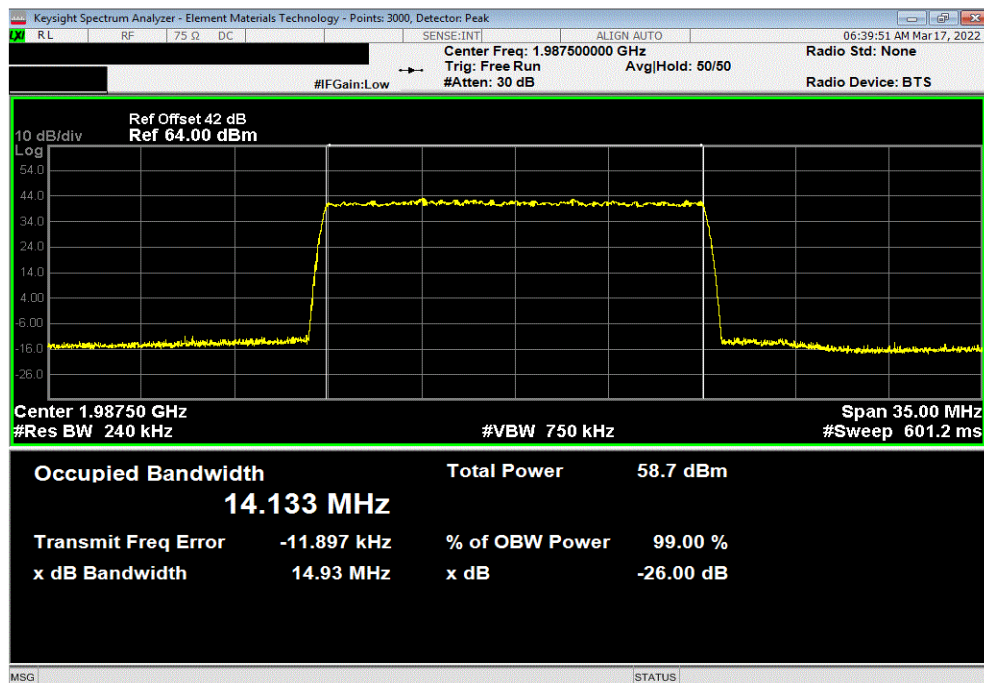


TbTx 2021.12.14.1 XbTx 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			14.135	14.926	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 1987.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			14.133	14.929	Within Band		Pass

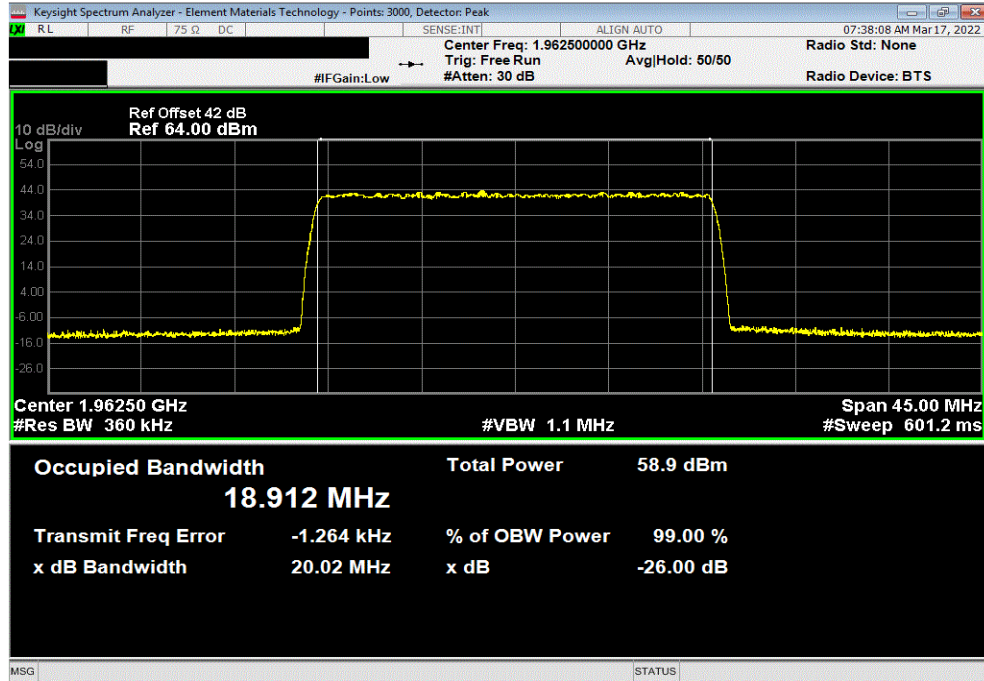


OCCUPIED BANDWIDTH

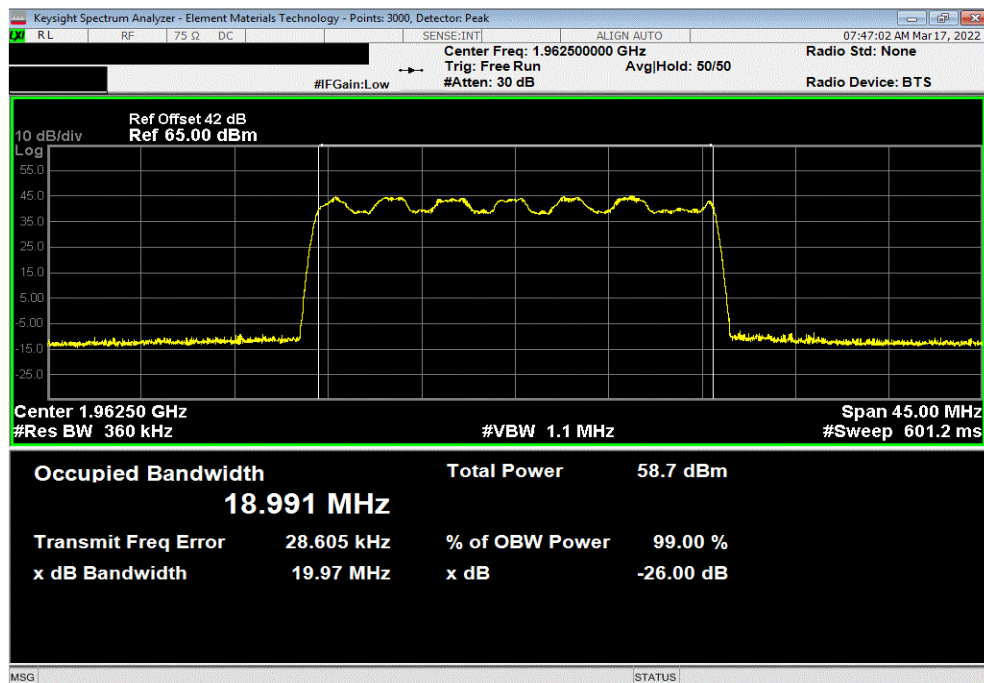


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			18.912	20.016	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			18.991	19.966	Within Band		Pass

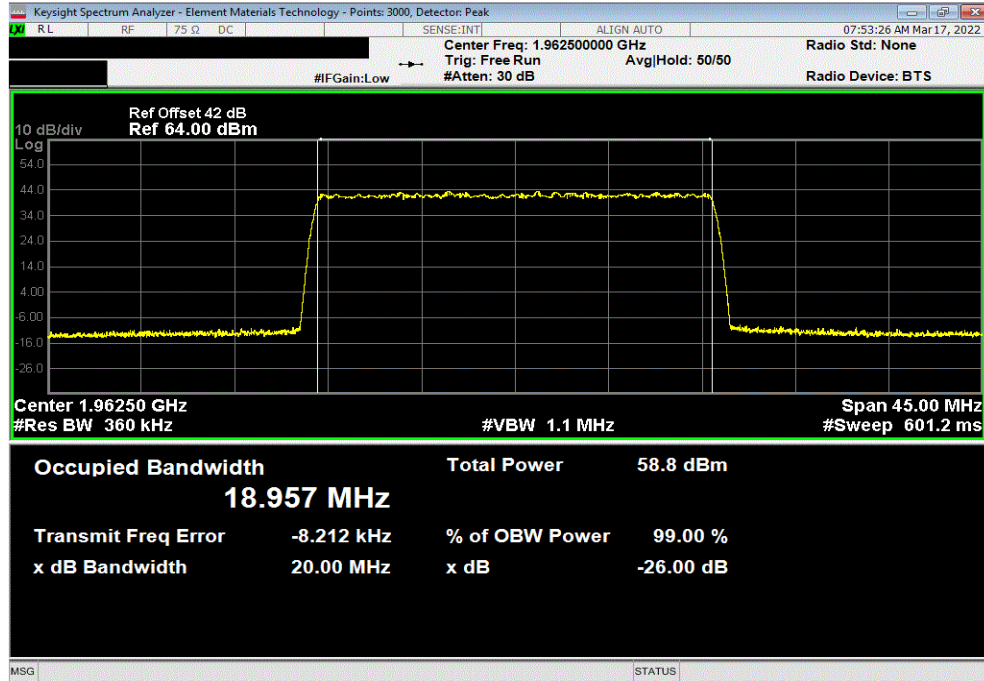


OCCUPIED BANDWIDTH

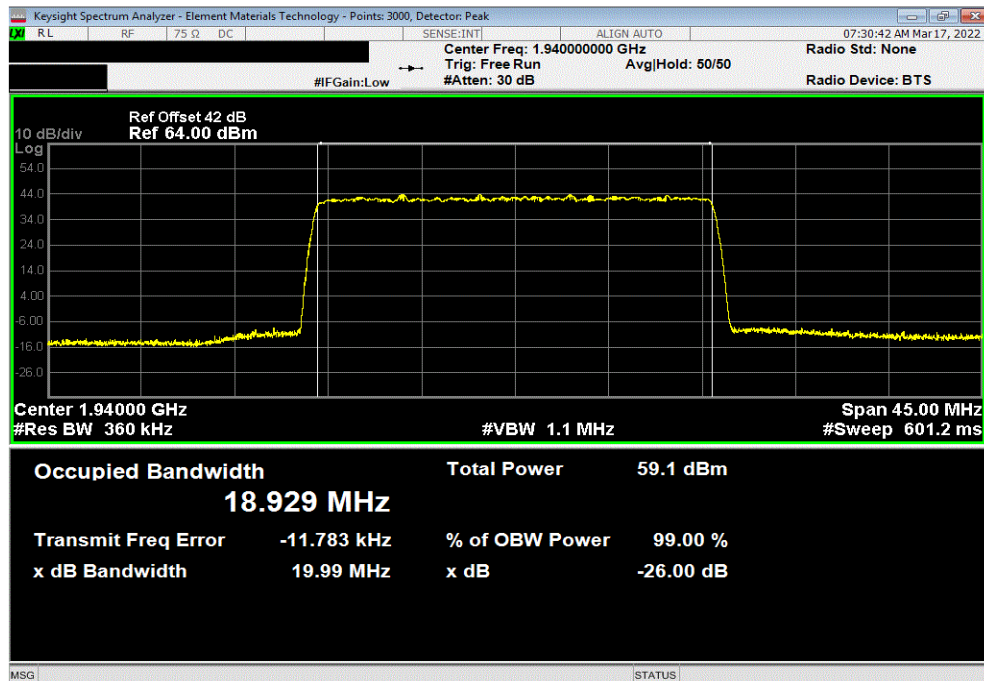


TbTx 2021.12.14.1 XbTx 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			18.957	20.005	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1940 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			18.929	19.995	Within Band		Pass

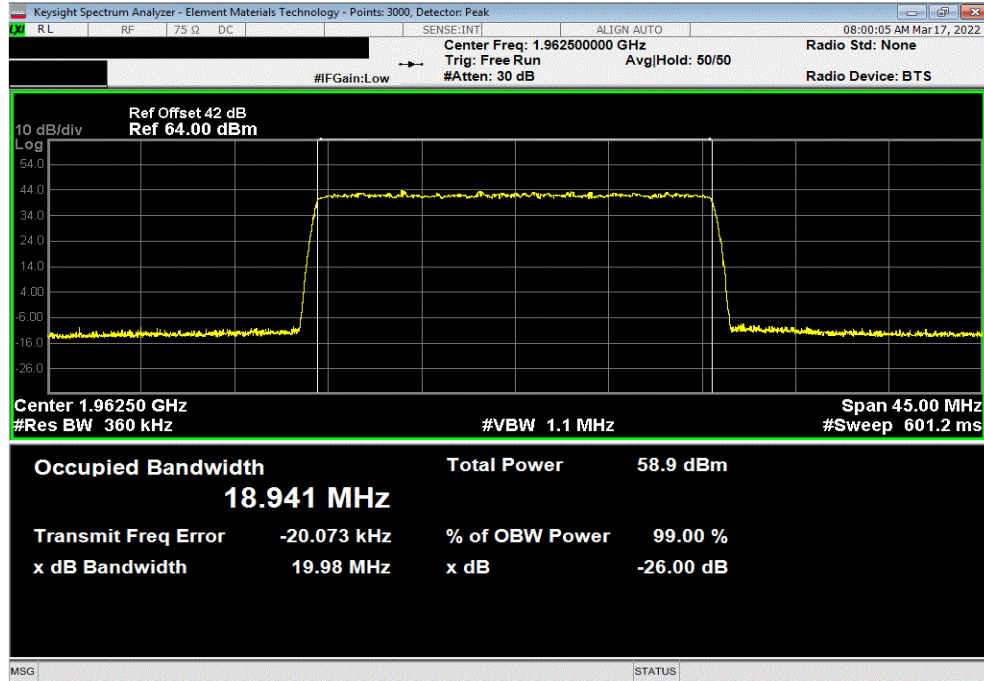


OCCUPIED BANDWIDTH

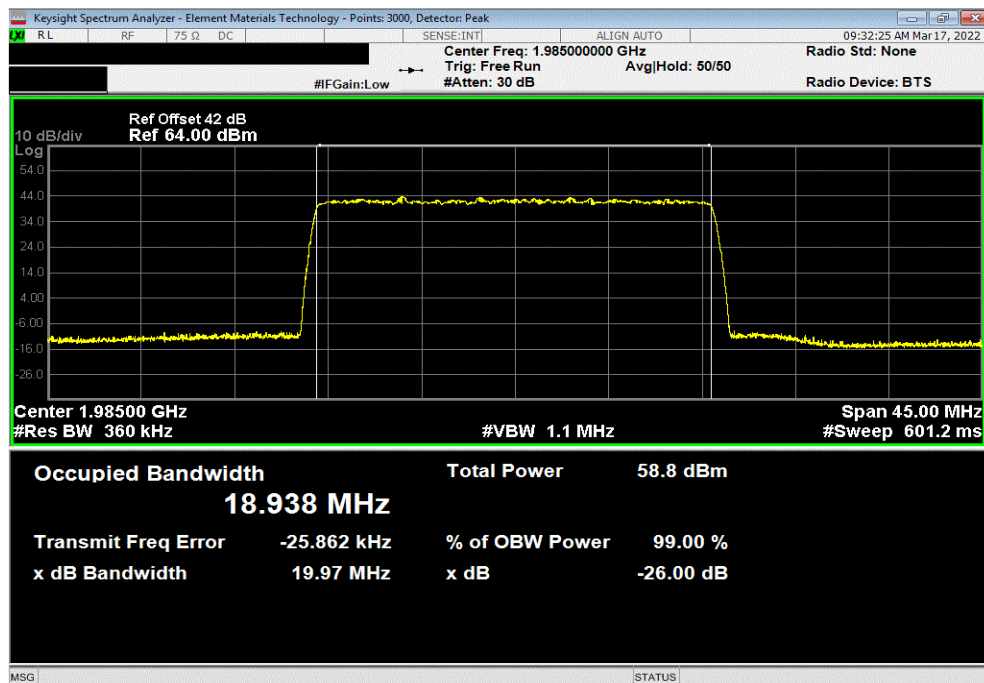


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			18.941	19.984	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 1985 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			18.938	19.965	Within Band		Pass

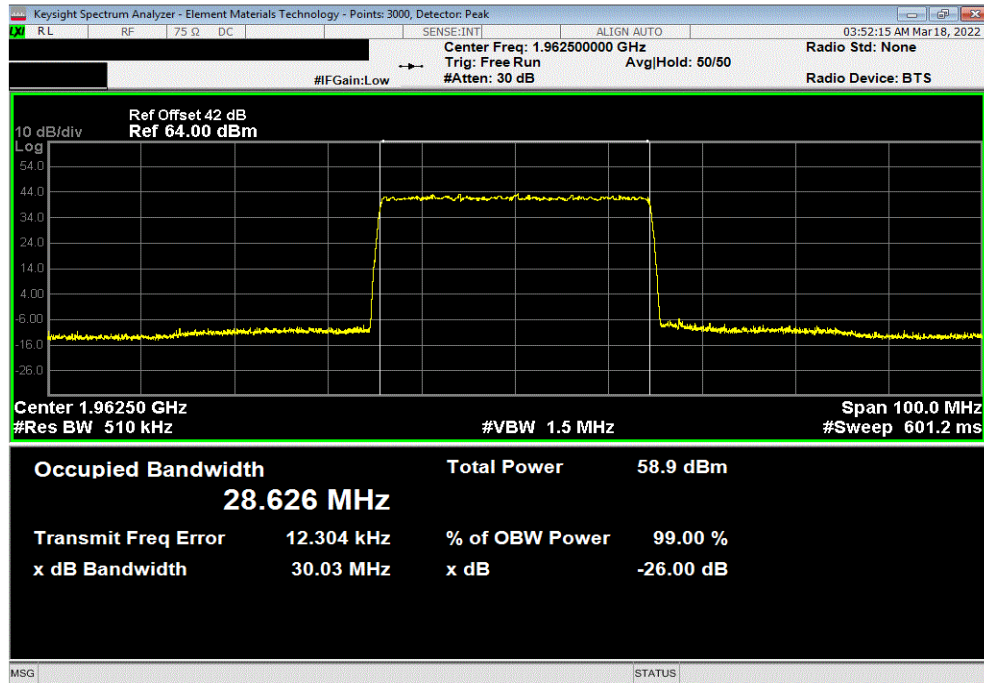


OCCUPIED BANDWIDTH

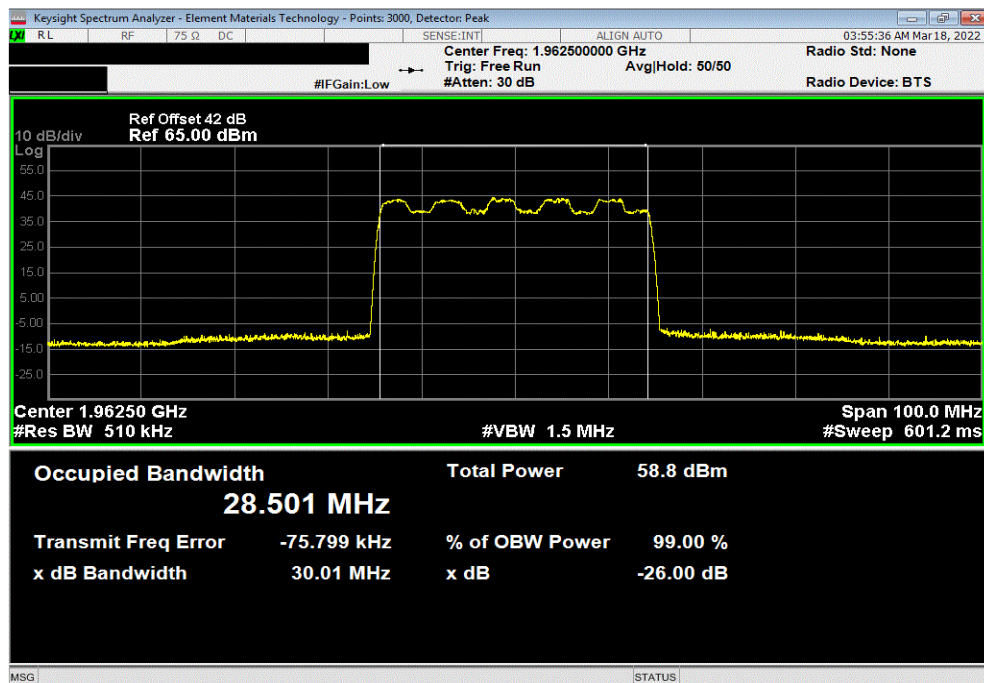


TbTx 2021.12.14.1 XbTx 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			28.626	30.03	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			28.501	30.014	Within Band		Pass

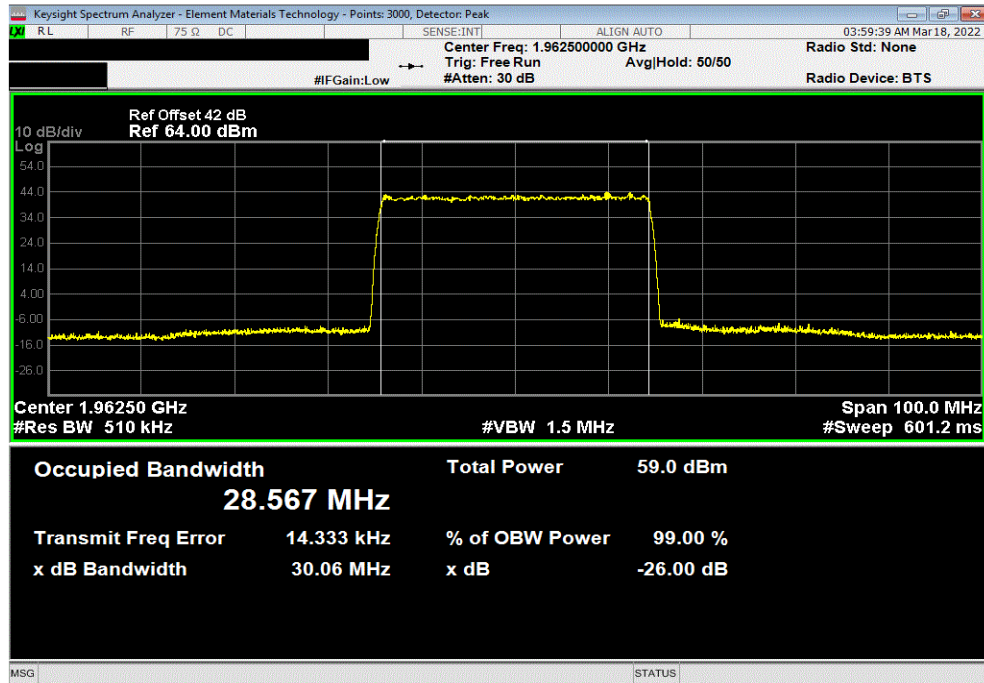


OCCUPIED BANDWIDTH

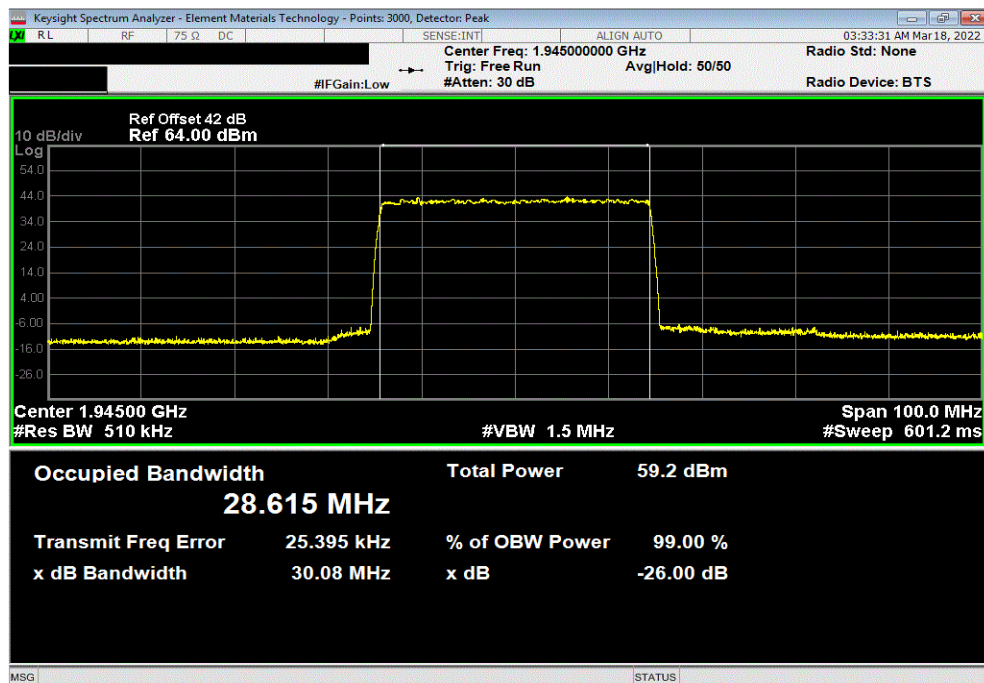


TbTx 2021.12.14.1 XbTx 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			28.567	30.06	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1945 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			28.615	30.081	Within Band		Pass

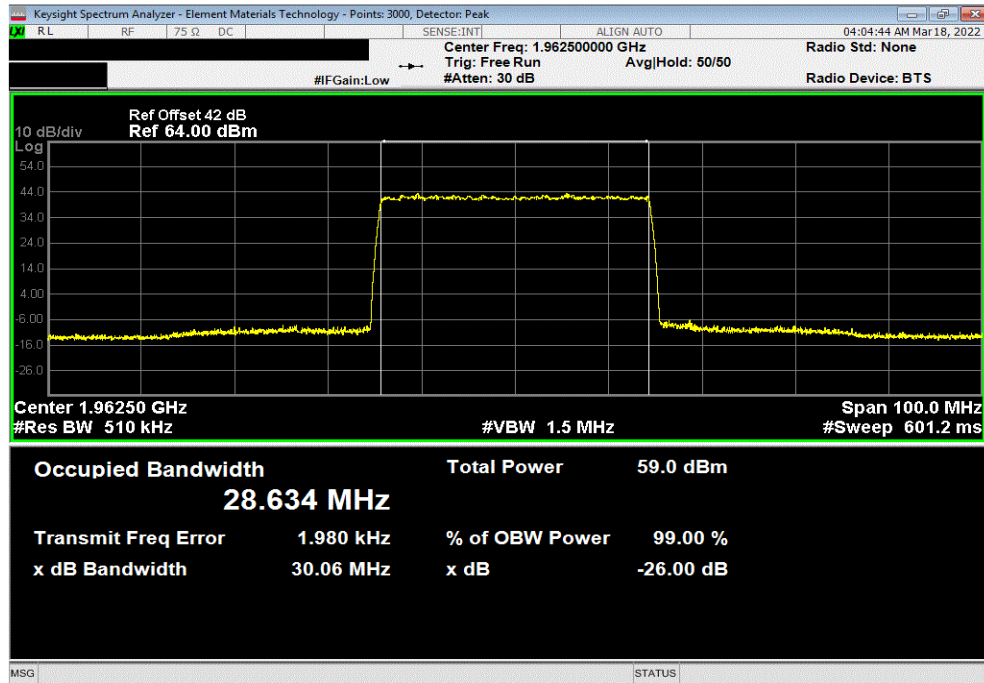


OCCUPIED BANDWIDTH

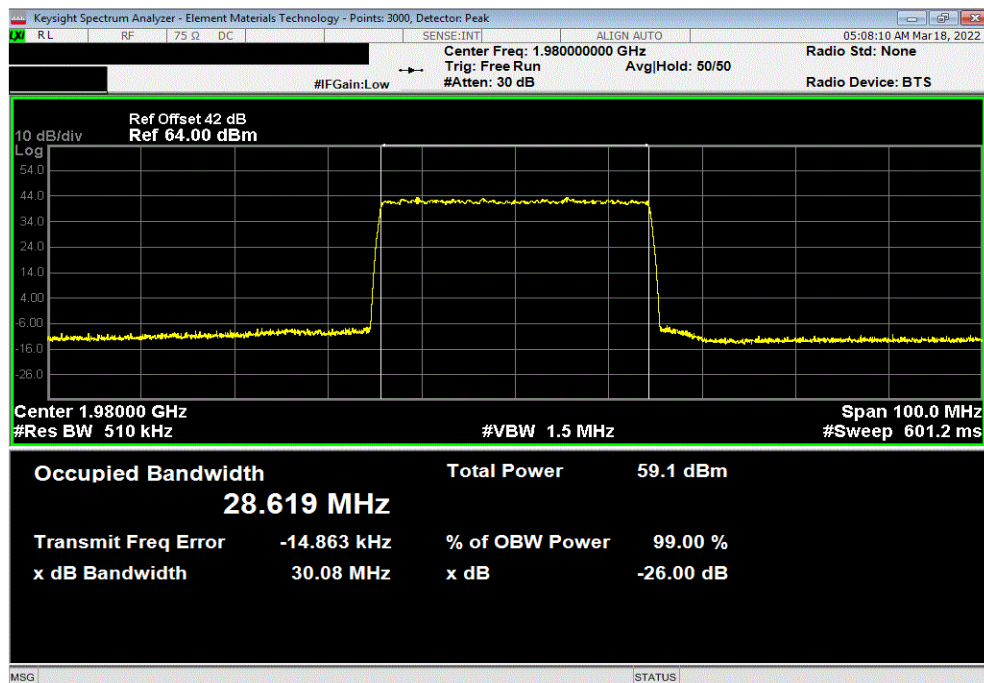


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			28.634	30.061	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, High Channel, 1980 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			28.619	30.081	Within Band		Pass



OCCUPIED BANDWIDTH



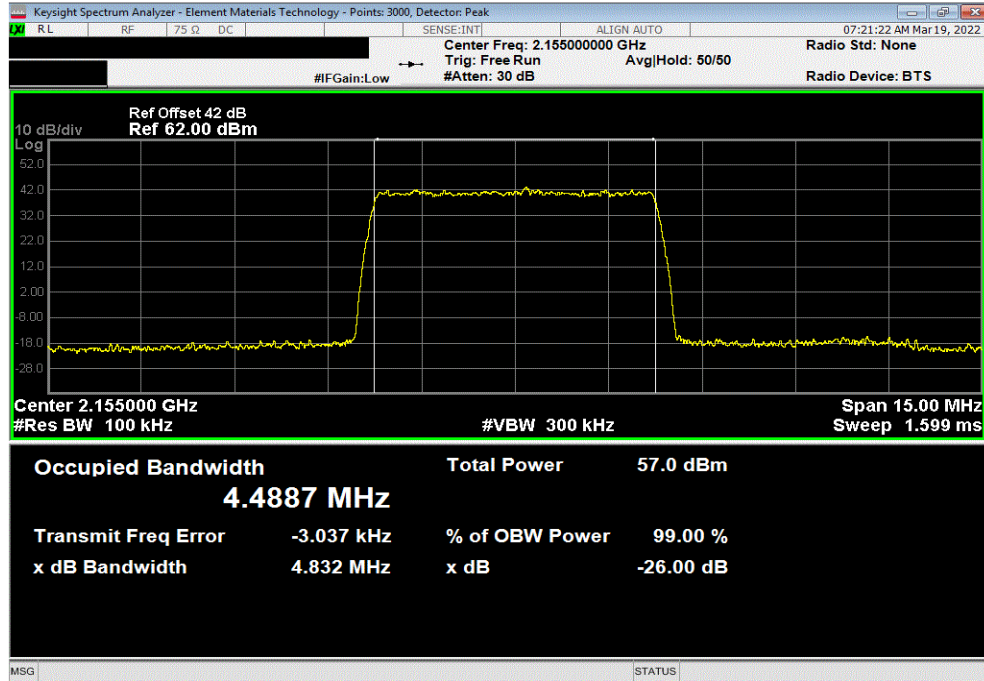
EUT: AHFI Remote Radio Head		Work Order: NOKI0038	
Serial Number: YK214000035		Date: 19-Mar-22	
Customer: Nokia of America Corporation		Temperature: 20.7 °C	
Attendees: Mitchell Hill		Humidity: 26.9% RH	
Project: None		Barometric Pres.: 1021 mbar	
Tested by: Brandon Hobbs		Power: 54 VDC	
Job Site: TX06			
TEST SPECIFICATIONS		Test Method	
FCC 27:2022		ANSI C63.26:2015	
RSS-139 Issue 3:2015, RSS-170 Issue 3:2015		RSS-139 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. Band n66 carriers are enabled at maximum power (80 watts/carrier).			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Value	Value
		99% (MHz)	26dB (MHz)
		Limit	Result
Band n66, 2110 MHz - 2200 MHz, 5G NR			
Port 1			
5 MHz Bandwidth			
QPSK Modulation			
Mid Channel, 2155 MHz		4.49	4.83
		Within Band	Pass
16-QAM Modulation			
Mid Channel, 2155 MHz		4.51	4.83
		Within Band	Pass
64-QAM Modulation			
Mid Channel, 2155 MHz		4.50	4.87
		Within Band	Pass
256-QAM Modulation			
Low Channel, 2112.5 MHz		4.48	4.84
Mid Channel, 2155 MHz		4.48	4.85
High Channel, 2197.5 MHz		4.48	4.84
		Within Band	Pass
10 MHz Bandwidth			
QPSK Modulation			
Mid Channel, 2155 MHz		9.30	9.92
		Within Band	Pass
16-QAM Modulation			
Mid Channel, 2155 MHz		9.24	9.86
		Within Band	Pass
64-QAM Modulation			
Mid Channel, 2155 MHz		9.30	9.92
		Within Band	Pass
256-QAM Modulation			
Low Channel, 2115 MHz		9.31	9.91
Mid Channel, 2155 MHz		9.31	9.92
High Channel, 2195 MHz		9.31	9.94
		Within Band	Pass
15 MHz Bandwidth			
QPSK Modulation			
Mid Channel, 2155 MHz		14.1	14.9
		Within Band	Pass
16-QAM Modulation			
Mid Channel, 2155 MHz		14.1	14.9
		Within Band	Pass
64-QAM Modulation			
Mid Channel, 2155 MHz		14.1	14.9
		Within Band	Pass
256-QAM Modulation			
Low Channel, 2117.5 MHz		14.1	14.9
Mid Channel, 2155 MHz		14.1	14.9
High Channel, 2192.5 MHz		14.1	14.9
		Within Band	Pass
20 MHz Bandwidth			
QPSK Modulation			
Mid Channel, 2155 MHz		18.9	20.0
		Within Band	Pass
16-QAM Modulation			
Mid Channel, 2155 MHz		19.0	20.0
		Within Band	Pass
64-QAM Modulation			
Mid Channel, 2155 MHz		19.0	20.0
		Within Band	Pass
256-QAM Modulation			
Low Channel, 2120 MHz		18.9	20.0
Mid Channel, 2155 MHz		18.9	20.0
High Channel, 2190 MHz		18.9	20.0
		Within Band	Pass
30 MHz Bandwidth			
QPSK Modulation			
Mid Channel, 2155 MHz		28.5	30.1
		Within Band	Pass
16-QAM Modulation			
Mid Channel, 2155 MHz		28.4	30.0
		Within Band	Pass
64-QAM Modulation			
Mid Channel, 2155 MHz		28.6	30.1
		Within Band	Pass
256-QAM Modulation			
Low Channel, 2125 MHz		28.6	30.1
Mid Channel, 2155 MHz		28.6	30.1
High Channel, 2185 MHz		28.6	30.0
		Within Band	Pass

OCCUPIED BANDWIDTH

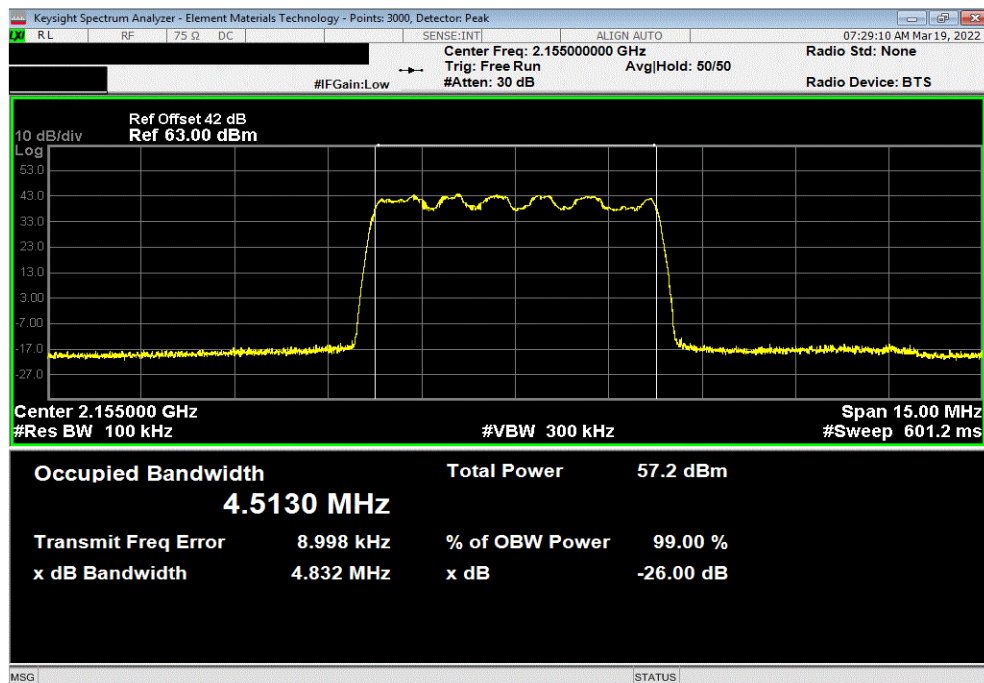


TbTx 2022.03.14.0 XbTx 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 2155 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			4.489	4.832	Within Band		Pass



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			4.513	4.832	Within Band		Pass

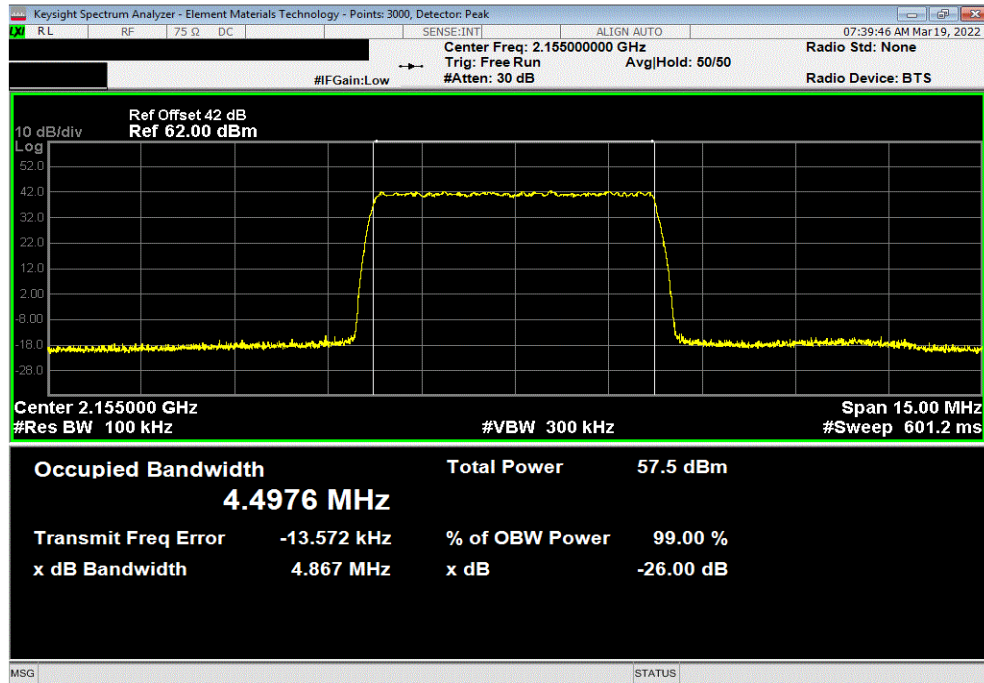


OCCUPIED BANDWIDTH

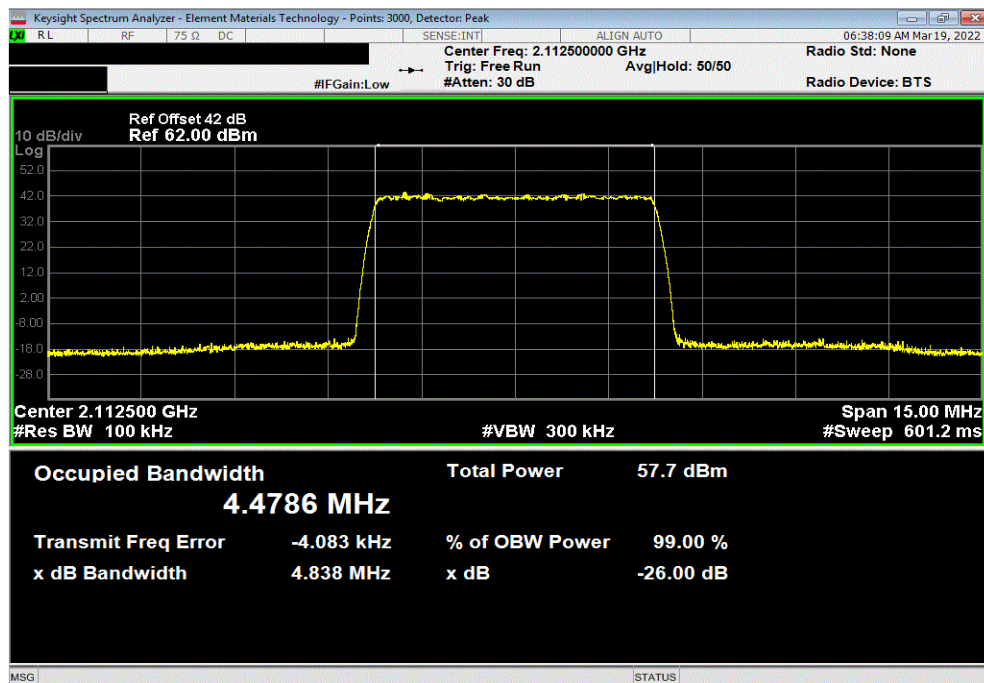


TbTx 2022.03.14.0 XMt 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			4.498	4.867	Within Band	Pass	



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 2112.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			4.479	4.838	Within Band	Pass	

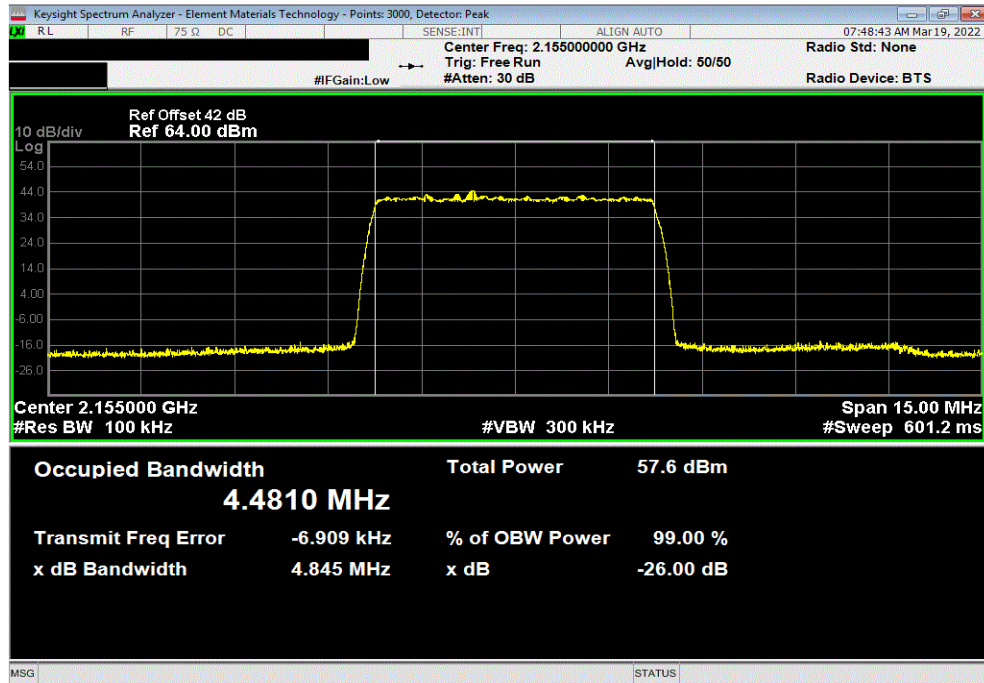


OCCUPIED BANDWIDTH

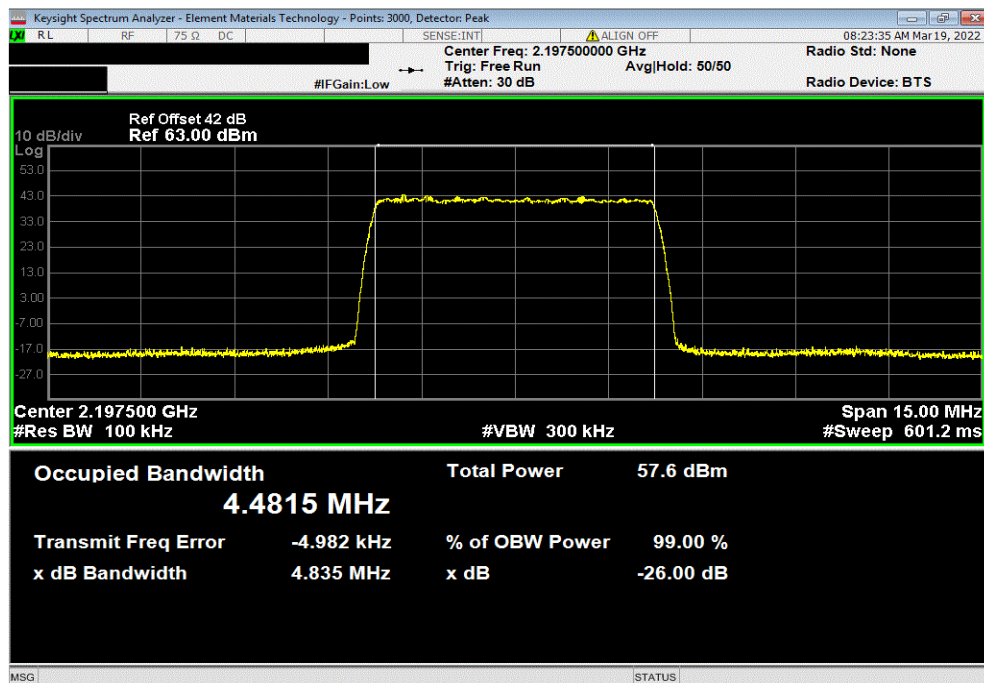


TbTx 2022.03.14.0 XMt 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			4.481	4.845	Within Band		Pass



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 2197.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			4.482	4.835	Within Band		Pass

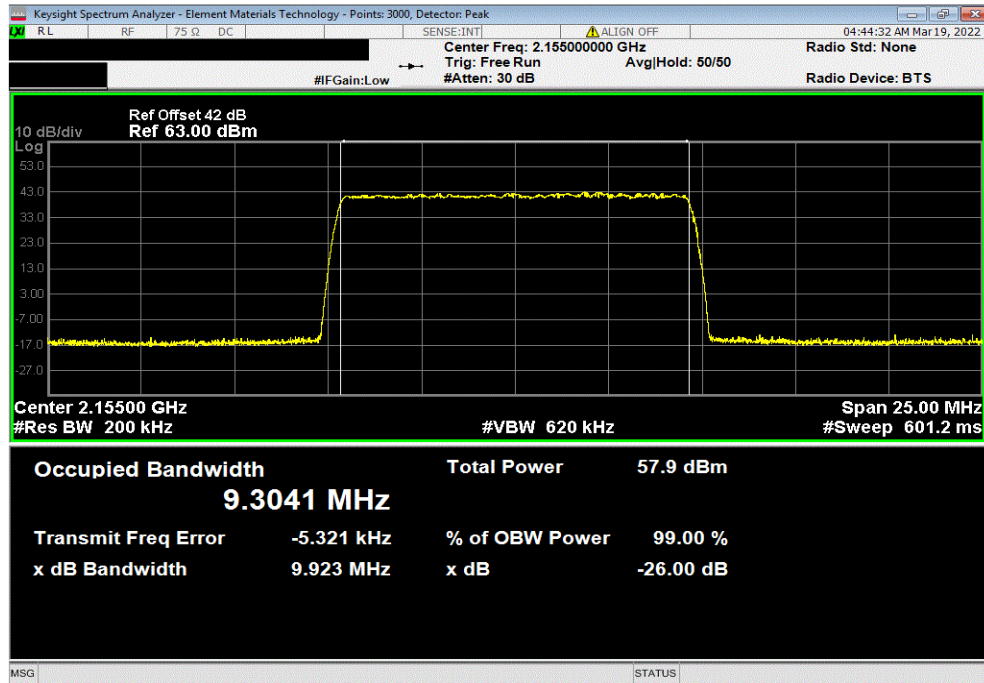


OCCUPIED BANDWIDTH

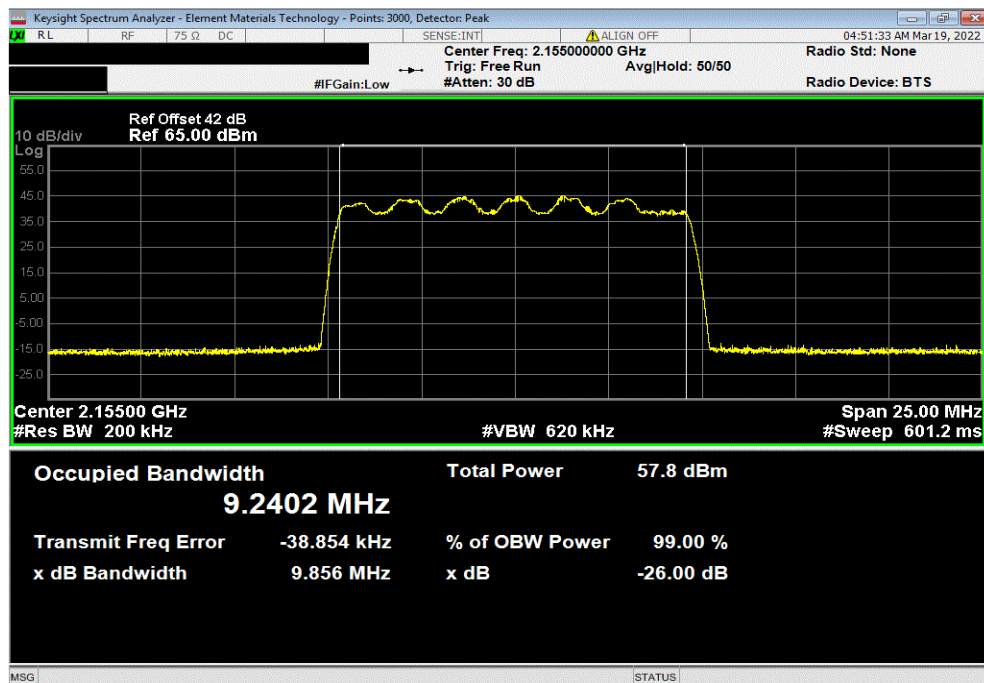


TbTx 2022.03.14.0 XMit 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			9.304	9.923	Within Band	Pass	



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			9.24	9.856	Within Band	Pass	

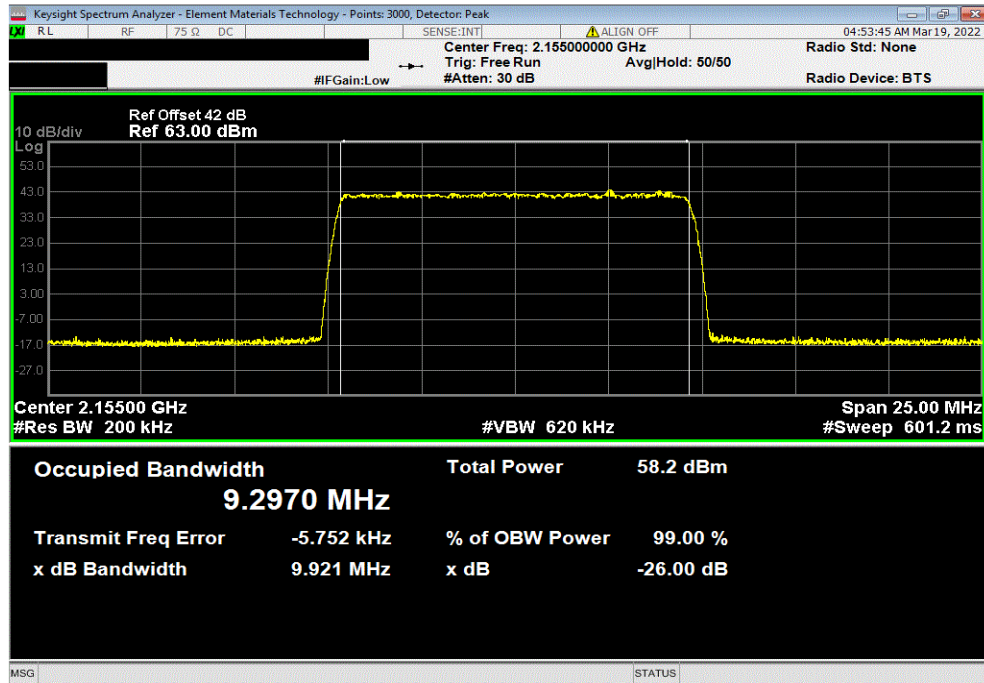


OCCUPIED BANDWIDTH

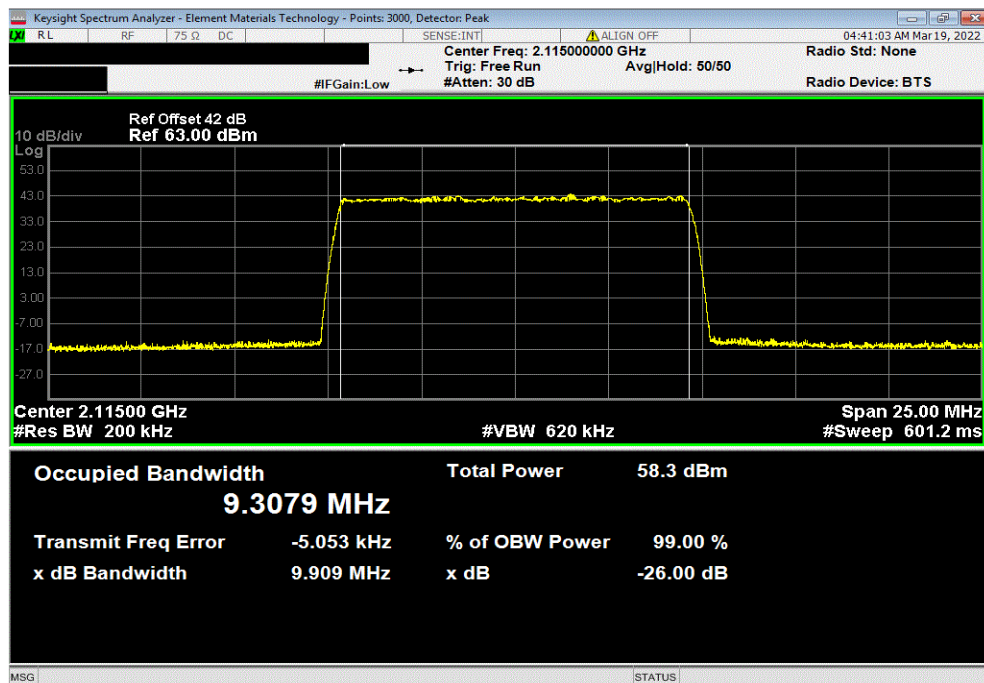


TbTx 2022.03.14.0 XMit 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			9.297	9.921	Within Band		Pass



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 2115 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			9.308	9.909	Within Band		Pass

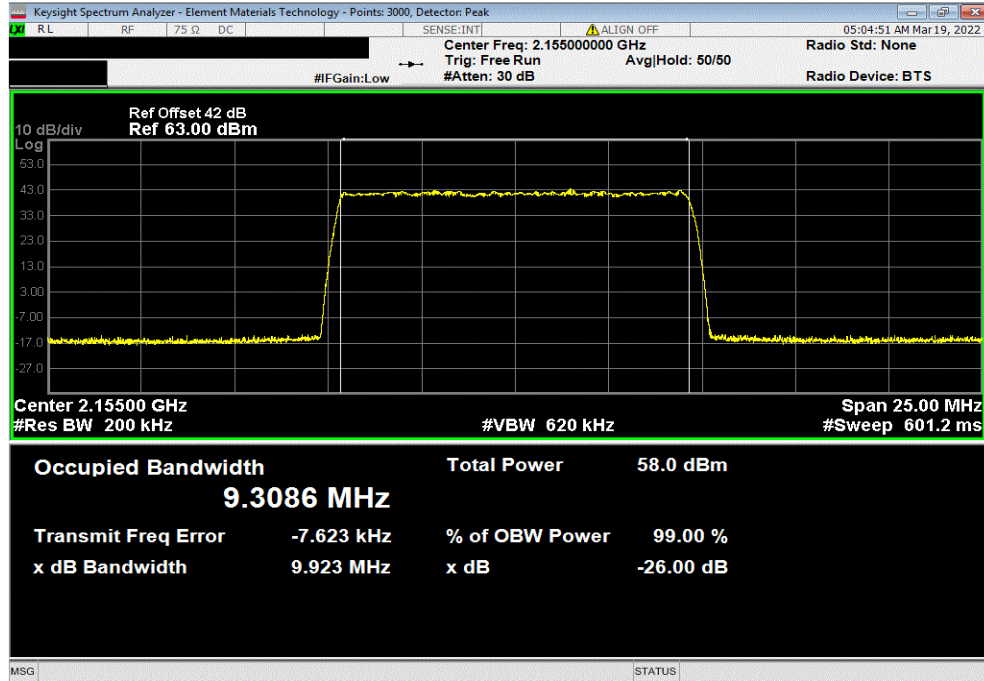


OCCUPIED BANDWIDTH

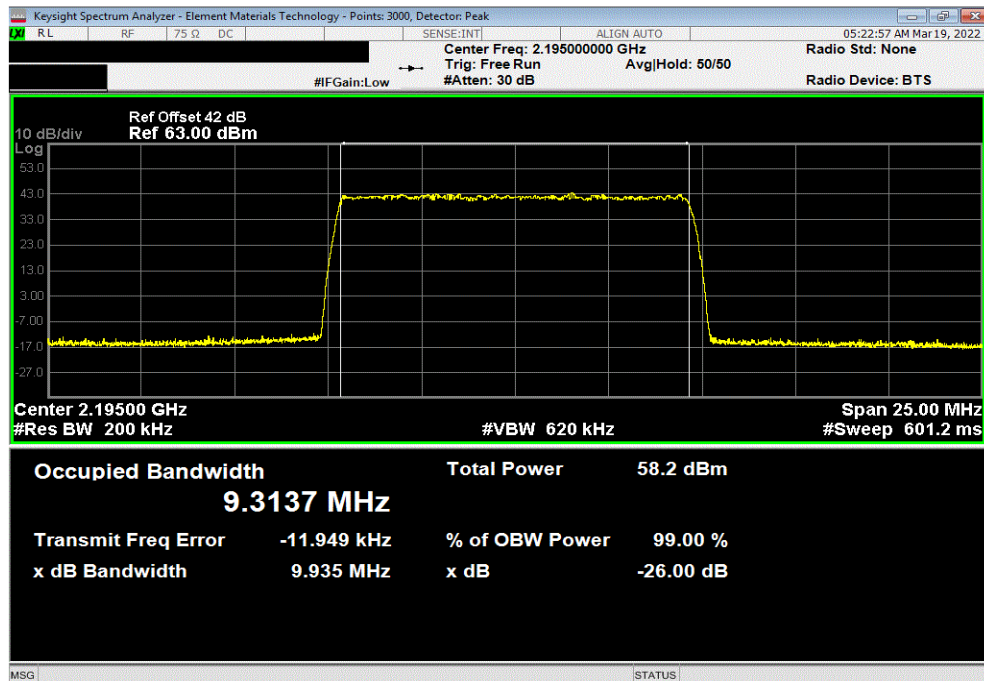


TbTx 2022.03.14.0 XMit 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz						
	Value	Value				
	99% (MHz)	26dB (MHz)	Limit		Result	
	9.309	9.923	Within Band		Pass	



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 2195 MHz						
	Value	Value				
	99% (MHz)	26dB (MHz)	Limit		Result	
	9.314	9.935	Within Band		Pass	

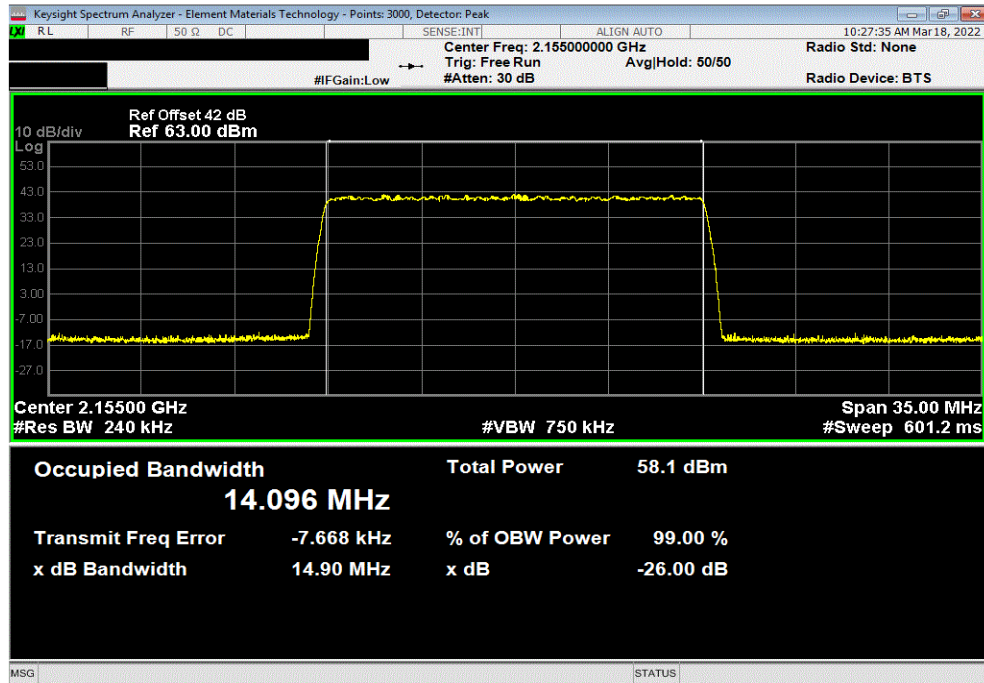


OCCUPIED BANDWIDTH

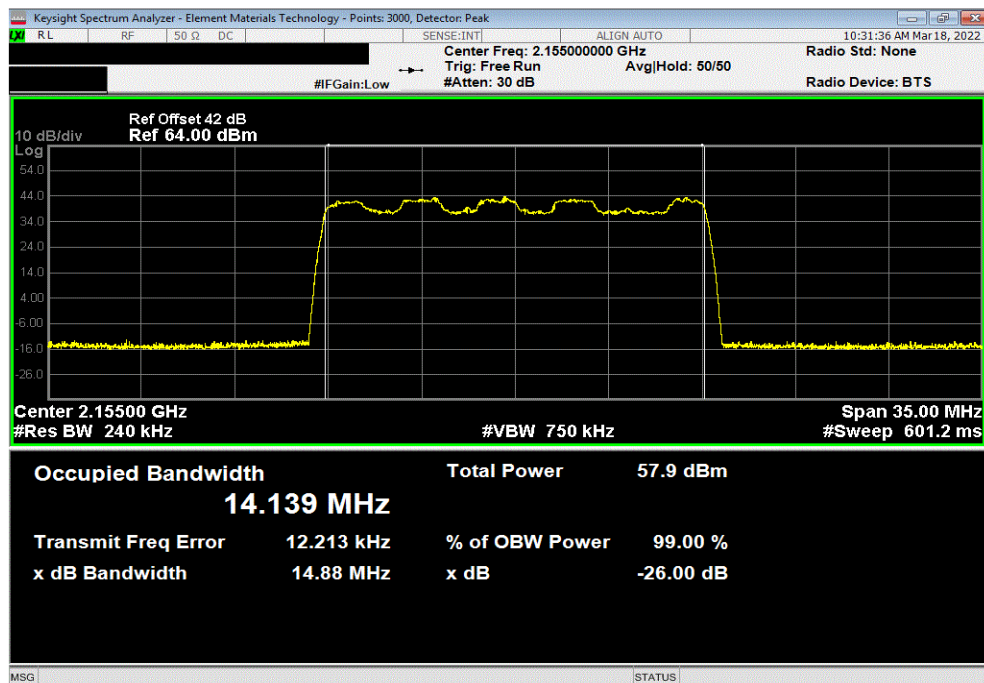


TbTx 2022.03.14.0 XMt 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, QPSK Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.096	14.901	Within Band	Pass	



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.139	14.881	Within Band	Pass	

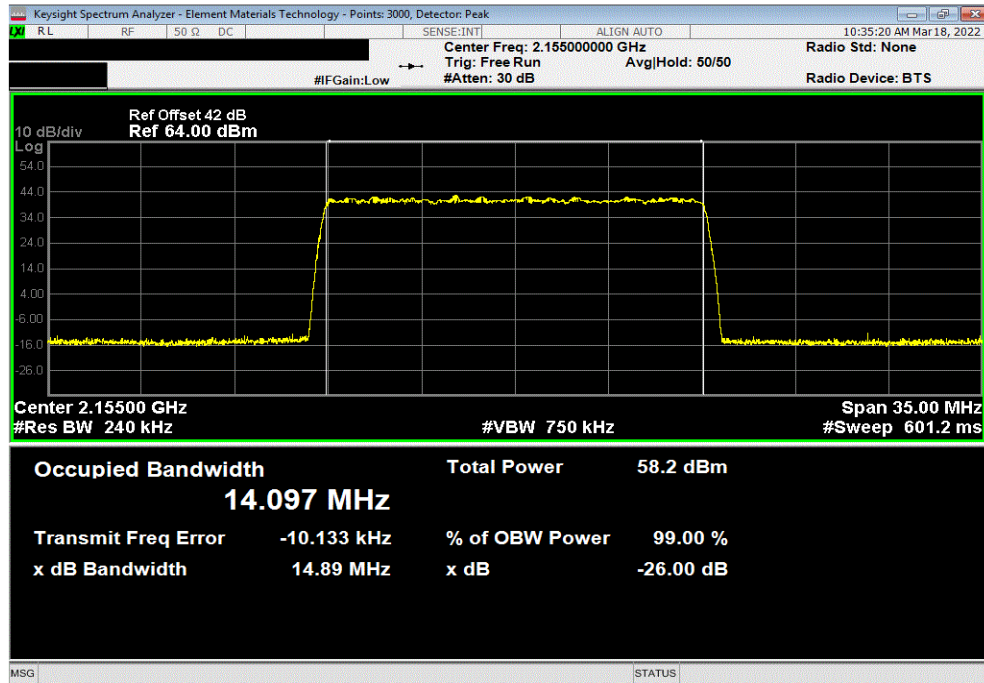


OCCUPIED BANDWIDTH

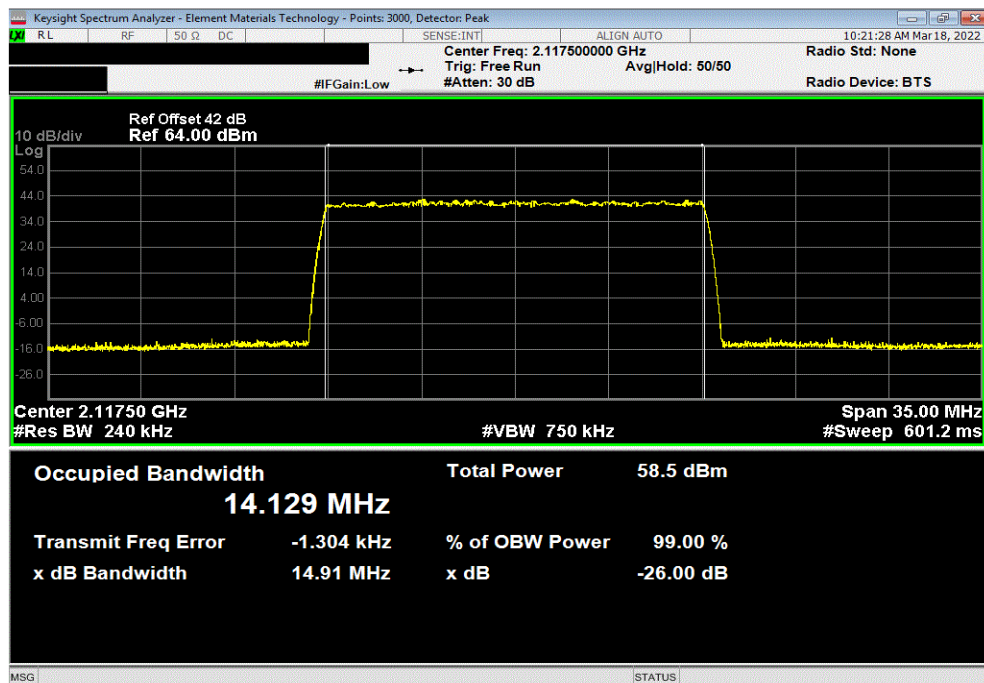


TbTx 2022.03.14.0 XbTx 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.097	14.888	Within Band	Pass	



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 2117.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.129	14.915	Within Band	Pass	

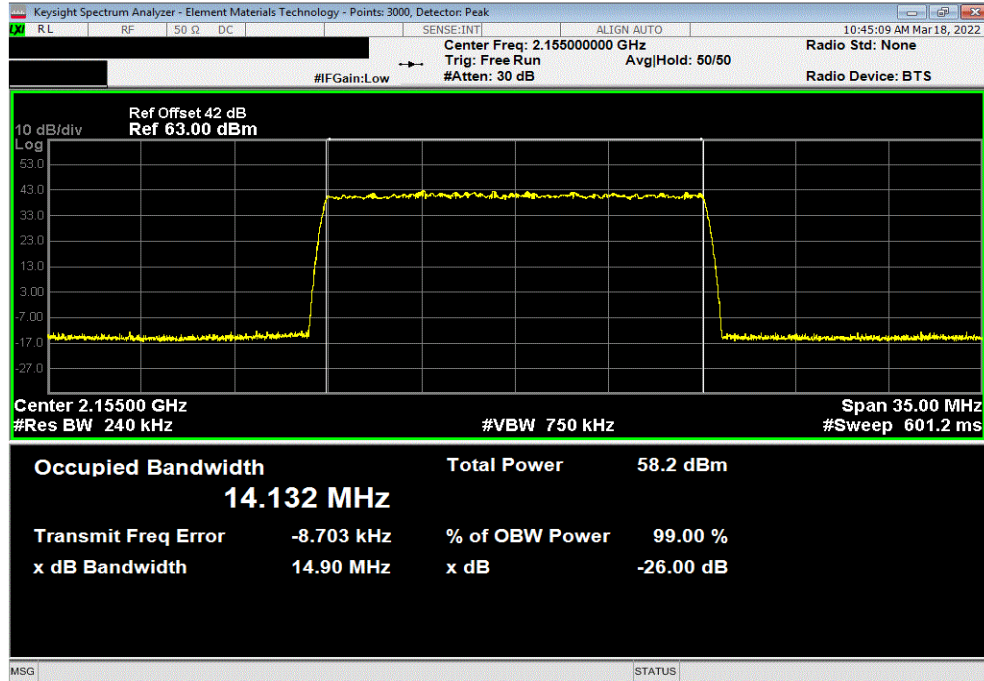


OCCUPIED BANDWIDTH

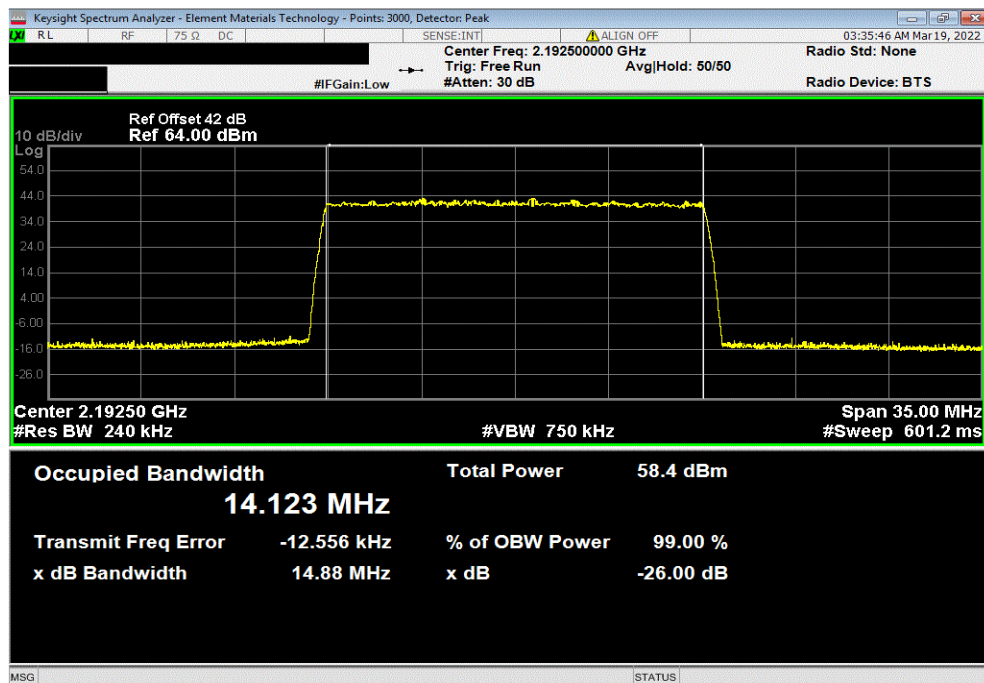


TbTx 2022.03.14.0 XbTx 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.132	14.903	Within Band	Pass	



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 2192.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.123	14.88	Within Band	Pass	

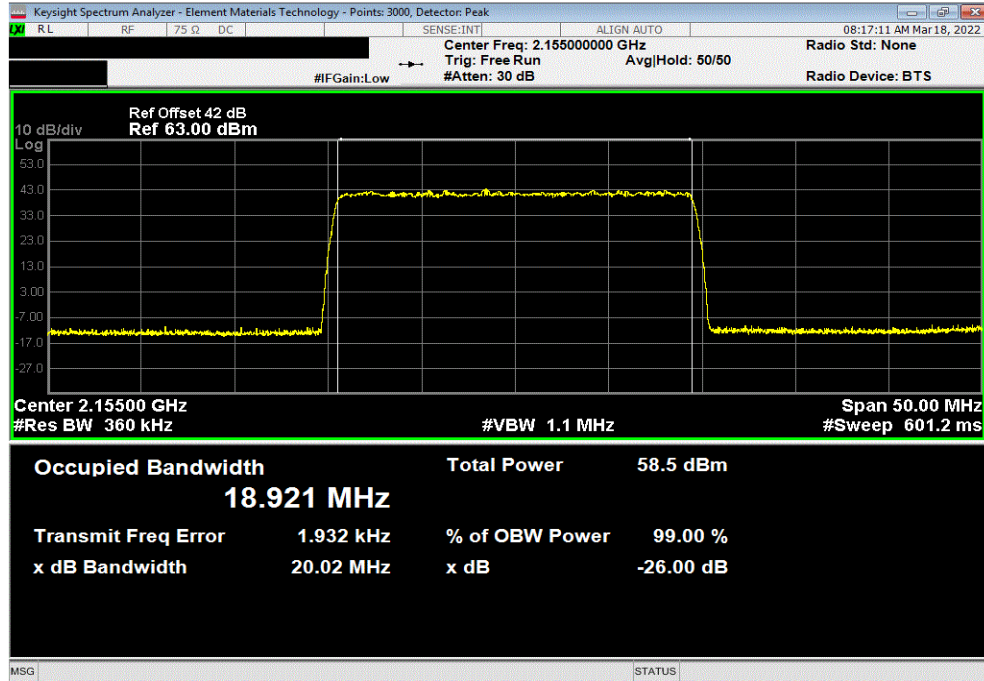


OCCUPIED BANDWIDTH

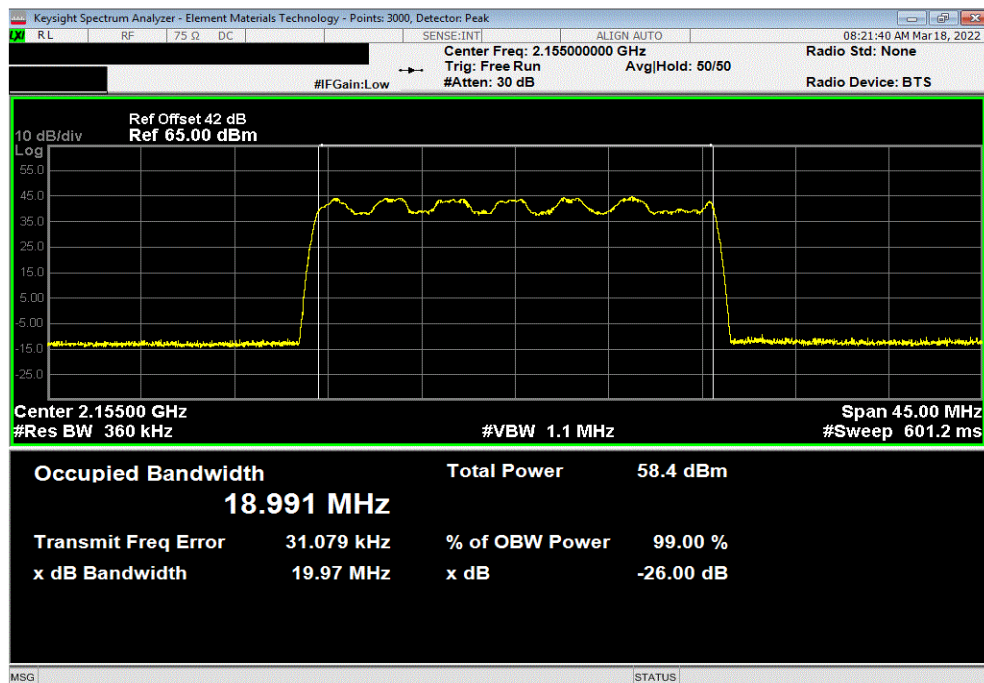


TbTx 2022.03.14.0 XMt 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, QPSK Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			18.921	20.022	Within Band	Pass	



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			18.991	19.971	Within Band	Pass	

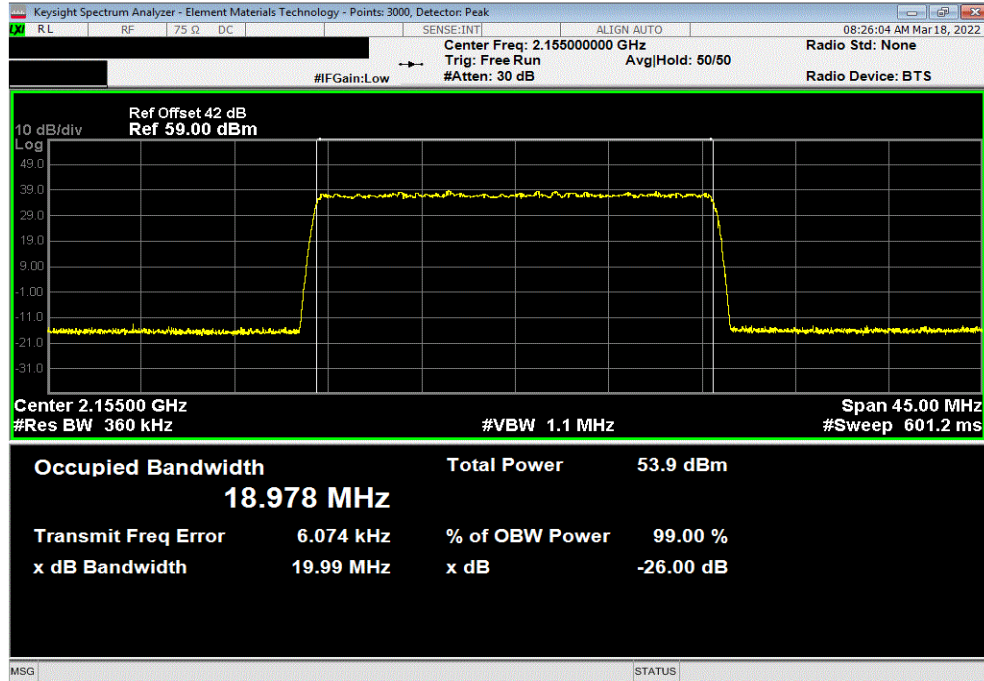


OCCUPIED BANDWIDTH

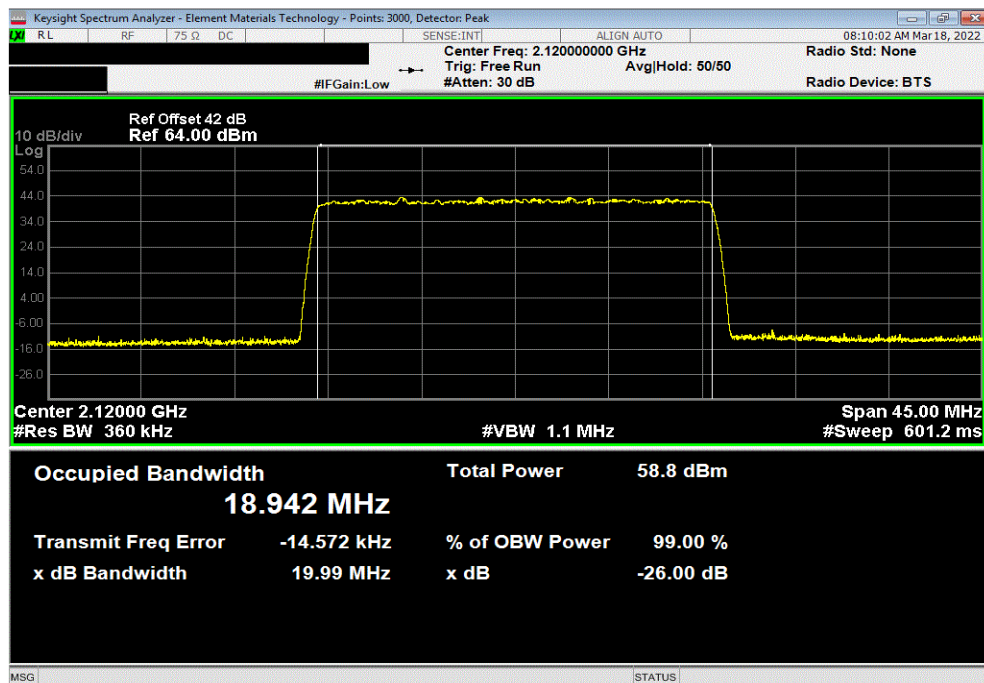


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			18.978	19.986	Within Band	Pass	



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 2120 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			18.942	19.993	Within Band	Pass	

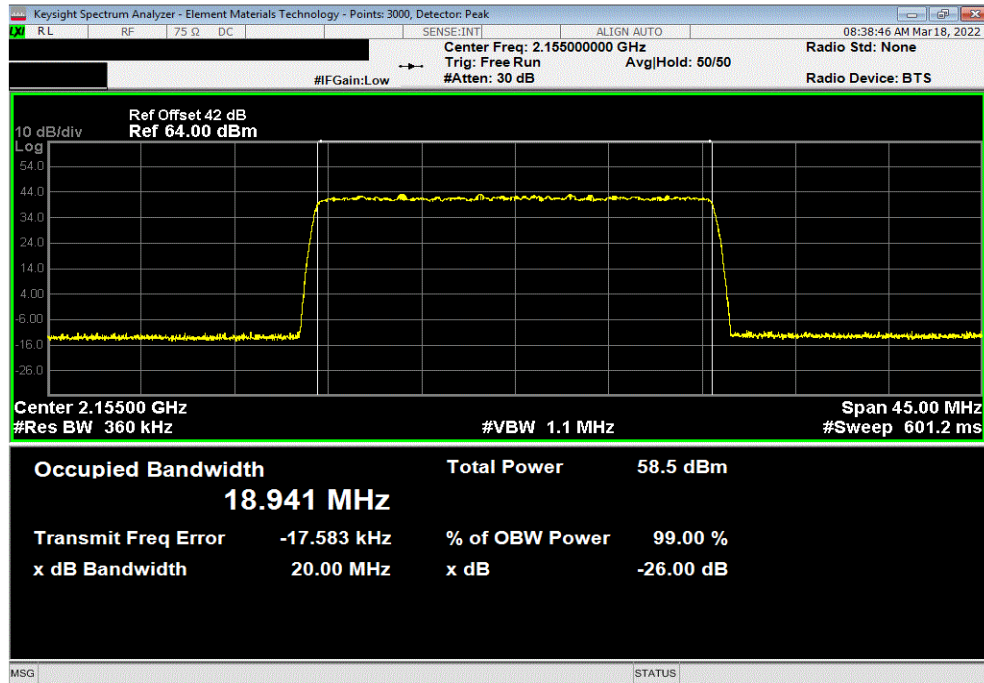


OCCUPIED BANDWIDTH

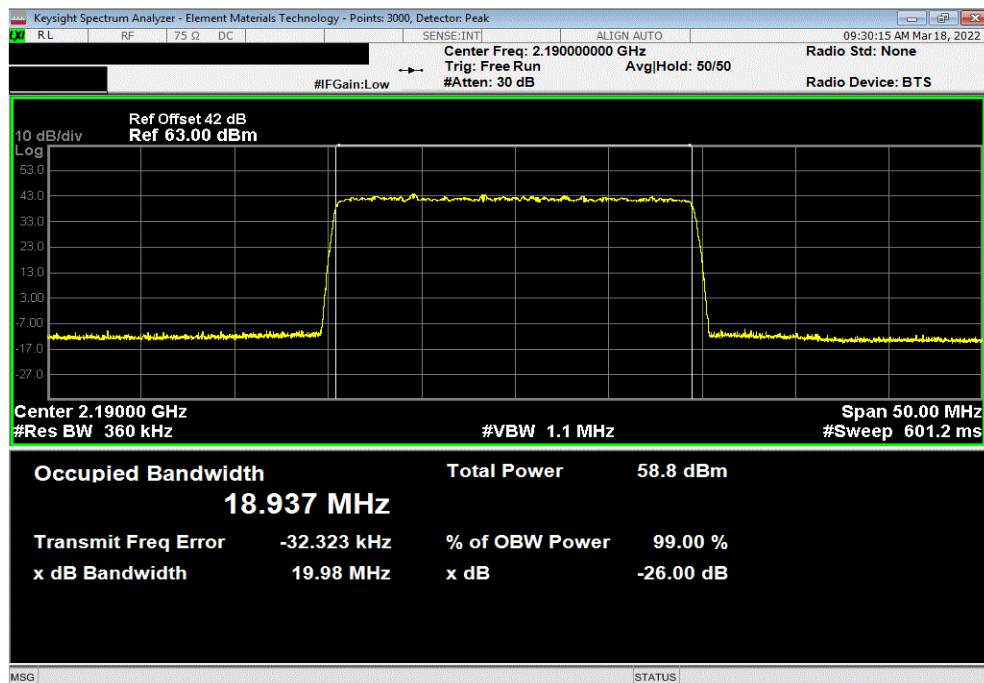


TbTx 2022.03.14.0 XbT 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			18.941	20.003	Within Band		Pass



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 2190 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			18.937	19.977	Within Band		Pass

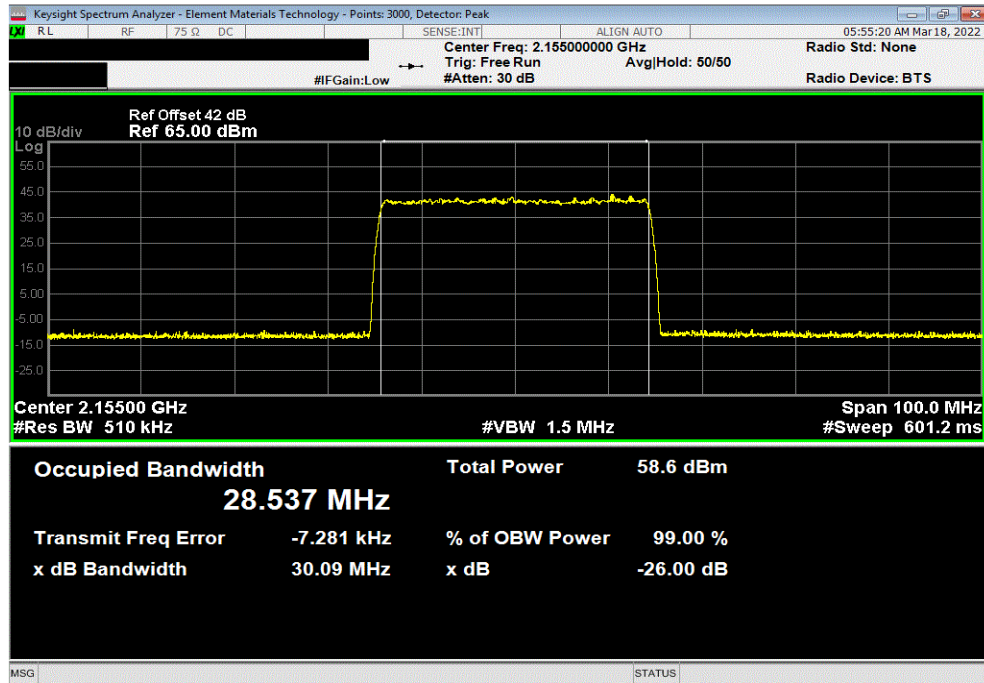


OCCUPIED BANDWIDTH

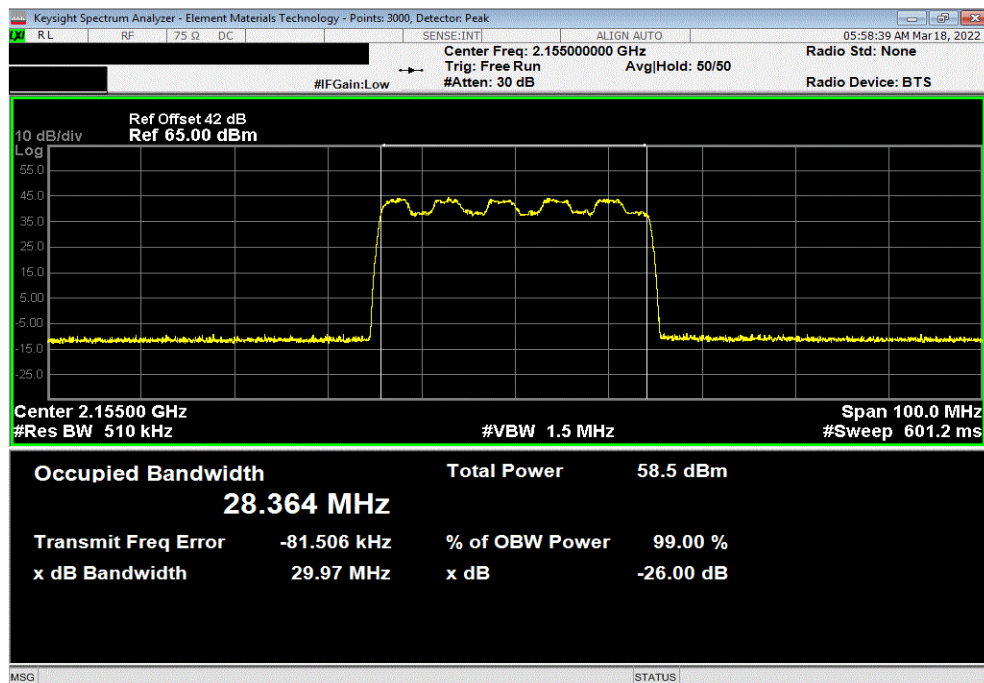


TbTx 2022.03.14.0 XbTx 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, QPSK Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			28.537	30.088	Within Band	Pass	



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			28.364	29.975	Within Band	Pass	

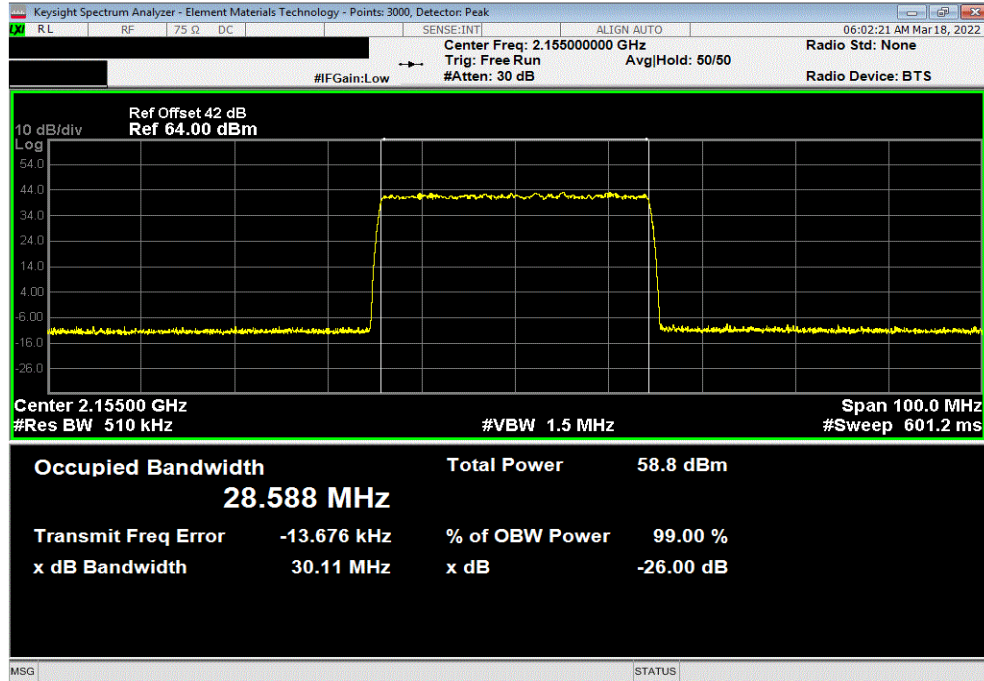


OCCUPIED BANDWIDTH

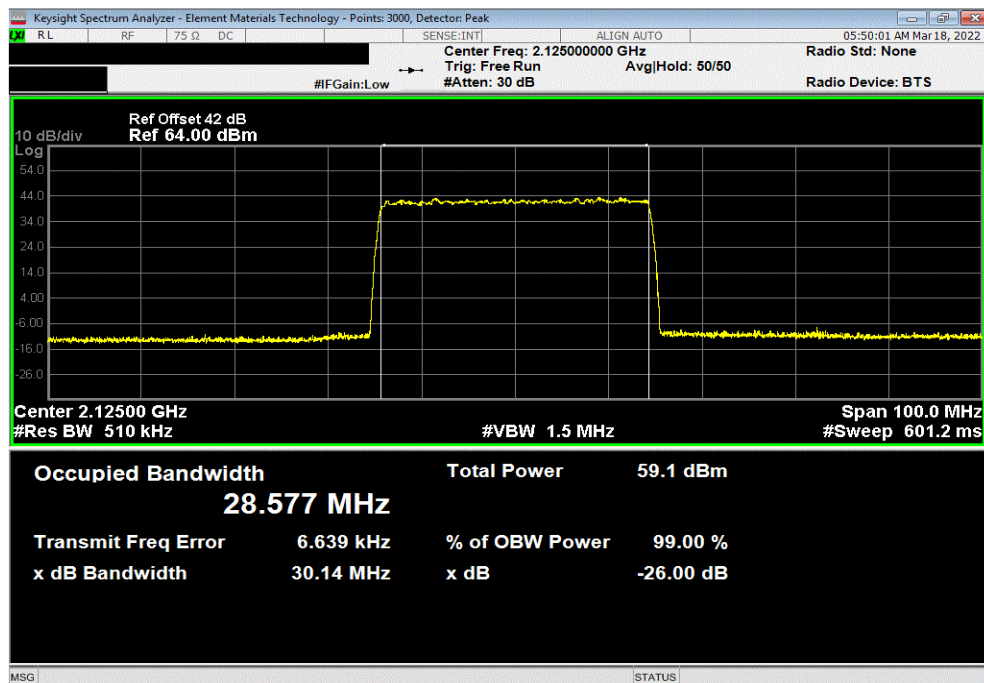


TbTx 2022.03.14.0 XbTx 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			28.588	30.113	Within Band		Pass



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Low Channel, 2125 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			28.577	30.136	Within Band		Pass

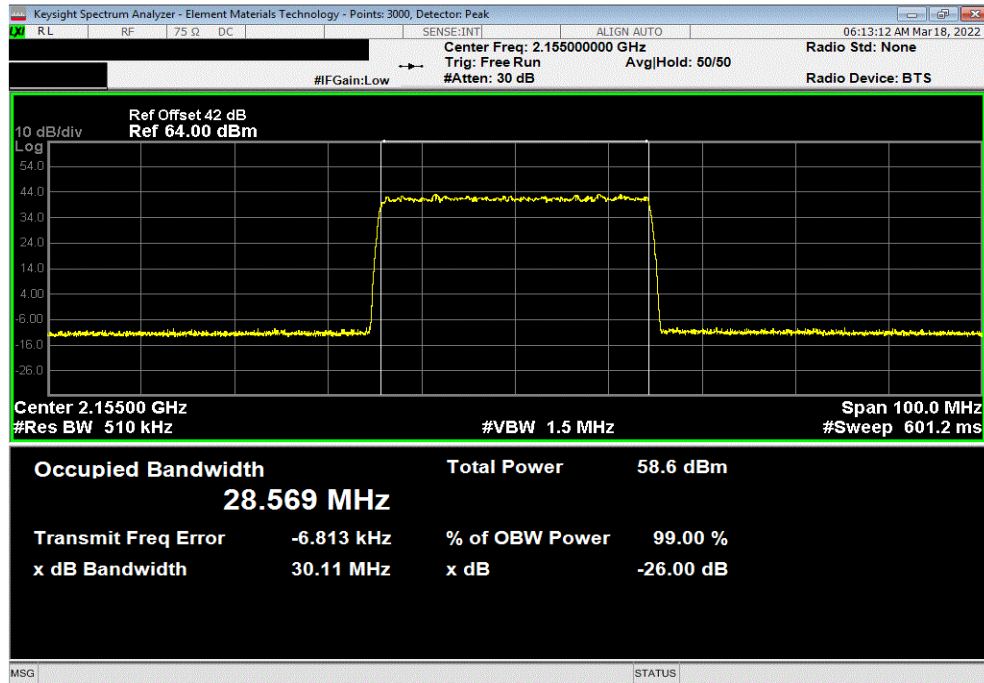


OCCUPIED BANDWIDTH



TbTx 2022.03.14.0 XbTx 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			28.569	30.106	Within Band		Pass



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, High Channel, 2185 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			28.582	30.024	Within Band		Pass

