

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	Keysight	N5171B-506	TEW	2-May-18	2-May-21

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

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

All limits were adjusted by a factor of [-10*log(4)] dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911.

Per FCC 24.238(a) and RSS 133 6.5.1 (i). the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 24.238(b) and RSS 133 6.5.1 (i). emissions seen up to 1 MHz outside of authorized operating frequency range band edges shall be measured with a RBW of 1% of the measured emission bandwidth. Any emission seen to be > 1 MHz further outside the band edges shall be measured with a RBW of 1 MHz. However, a narrower RBW of at least 1% of the emission bandwidth is still allowed provided that the measured power is integrated over the full reference bandwidth of 1 MHz.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (FHFB) as the original certification test. The FHFB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the original certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

Report No. NOKI0021 177/213



EUT: FHFB (FCC C2PC)
Serial Number: L9144200604
Customer: Nokia of America Corporation Work Order: NOKI0021 Date: 10-Sep-20 Temperature: 22.8 °C Attendees: Mitchell Hill, John Rattanavong Humidity: 51.1% RH Barometric Pres.: 1024 mbar Project: None Tested by: Brandon Hobbs
TEST SPECIFICATIONS Power: 54 VDC Test Method Job Site: TX05 FCC 24E:2020 RSS-133:2018 COMMENTS All measurement path losses were accounted for in the reference level offest including any attenuators, filters and DC blocks. The carrier power was set to maximum except for the 15MHz channel bandwidth.

The power was reduced by 1 dB at the 15MHz channel bandwidth "High Channel" (1987.5MHz) and "Low Channel" (1937.5MHz) and the measurement marker was offset RBW/2 from the band edge frequency as allowed by C63.26 clause 5.7.2.g. The 15MHz channel bandwidth at full power was re-measured at "High Channel - 100kHz" (1987.4MHz) and "Low Channel + 100kHz" (1937.6MHz) at the band edge frequencies. DEVIATIONS FROM TEST STANDARD Configuration # 2 Signature Value (dBm) Limit (dBm) Result Range Port 1, Band n25, 1930 MHz - 1995 MHz 15 MHz Bandwidth Low Channel +100kHz: 1937.6 MHz -20.08 -19 Pass Low Channel +100kHz: 1937.6 MHz Low Channel +100kHz: 1937.6 MHz -25.41 -25.38 -19 3 Pass High Channel -100kHz: 1987.4 MHz Pass High Channel -100kHz: 1987.4 MHz -24.85 -19 Pass High Channel -100kHz: 1987.4 MHz 16-QAM Modulation Low Channel +100kHz: 1937.6 MHz Pass Low Channel +100kHz: 1937.6 MHz -24.85 -19 Pass -24.71 -21.43 Low Channel +100kHz: 1937.6 MHz -19 Pass High Channel -100kHz: 1987.4 MHz -19 Pass High Channel -100kHz: 1987.4 MHz High Channel -100kHz: 1987.4 MHz 3 -25.45 -19 Pass 64-QAM Modulation -19 -19 Low Channel +100kHz: 1937.6 MHz -22.12 Pass Low Channel +100kHz: 1937.6 MHz Low Channel +100kHz: 1937.6 MHz 3 -25.16 -19 Pass High Channel -100kHz: 1987.4 MHz -21.81 -19 High Channel -100kHz: 1987.4 MHz -24.74 -19 Pass High Channel -100kHz: 1987.4 MHz Pass 256-QAM Modulation Low Channel +100kHz: 1937.6 MHz Low Channel +100kHz: 1937.6 MHz -22.34 -25.44 -19 -19 Pass Low Channel +100kHz: 1937.6 MHz -25.31 Pass High Channel -100kHz: 1987.4 MHz -21.66 -19 Pass High Channel -100kHz: 1987.4 MHz High Channel -100kHz: 1987.4 MHz -25.60 -19 Pass

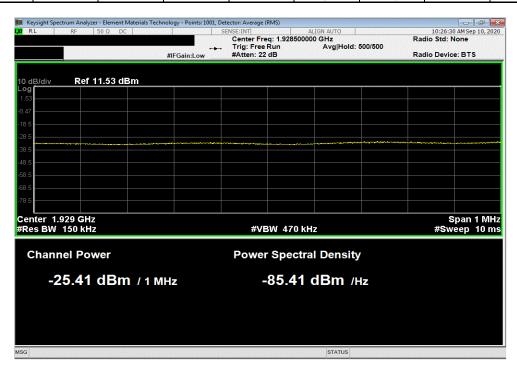
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Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, Low Channel +100kHz: 1937.6 MHz
Frequency
Range Value (dBm) Limit (dBm) Result
1 -20.08 -19 Pass



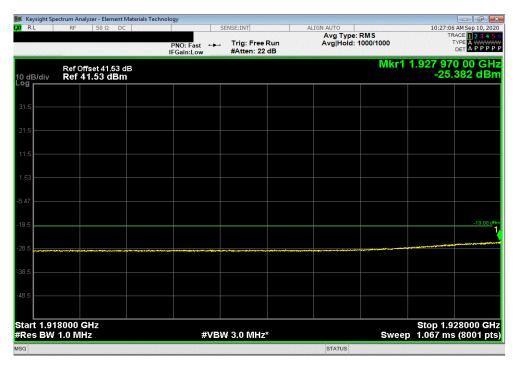
Port 1, Band	n25, 1930 MHz - 19	95 MHz , 15 MHz	Bandwidth, QPS	K Modulation, Lo	w Channel +100k	Hz: 1937.6 MHz	
	Frequency						
	Range			Value (dBm)	Limit (dBm)	Result	
	2			-25.41	-19	Pass	



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Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, Low Channel +100kHz: 1937.6 MHz
Frequency
Range
Value (dBm) Limit (dBm) Result
3 -25.38 -19 Pass



	Port 1, Band n25	5, 1930 MHz - 19	95 MHz , 15 MHz	Bandwidth, QPS	K Modulation, High	gh Channel -100k	Hz: 1987.4 MHz	
		Frequency						
_		Range			Value (dBm)	Limit (dBm)	Result	
		1			-21.12	-19	Pass	



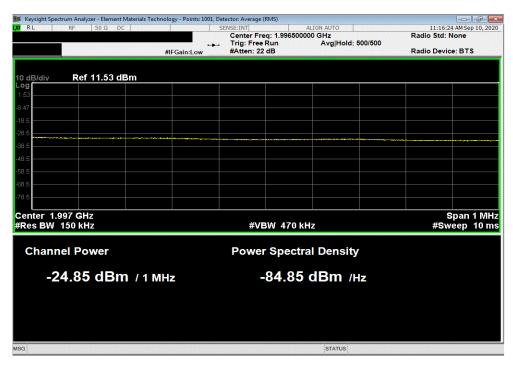
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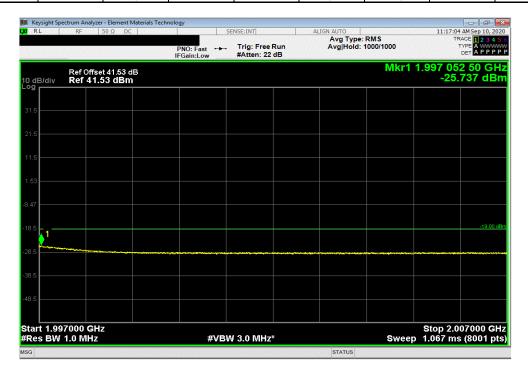
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, High Channel -100kHz: 1987.4 MHz

Frequency
Range Value (dBm) Limit (dBm) Result

2 -24.85 -19 Pass



	Port 1, Band n25	5, 1930 MHz - 19	95 MHz , 15 MHz	Bandwidth, QPS	K Modulation, High	gh Channel -100k	Hz: 1987.4 MHz	
		Frequency						
_		Range			Value (dBm)	Limit (dBm)	Result	
		3			-25.74	-19	Pass	



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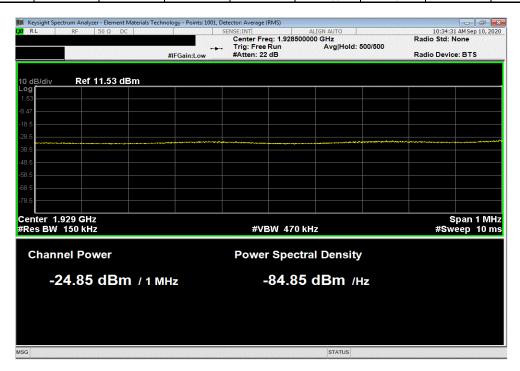
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , Low Channel +100kHz: 1937.6 MHz

Frequency
Range Value (dBm) Limit (dBm) Result

1 -20.75 -19 Pass



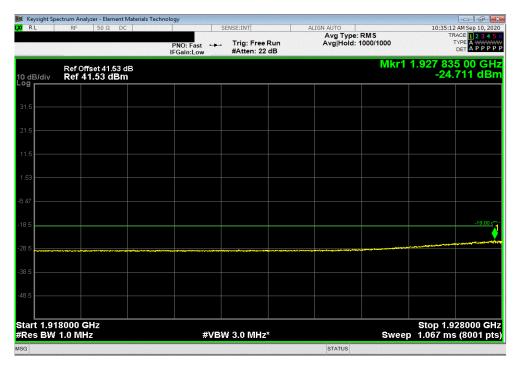
Port 1, Band n25,	1930 MHz - 1995	5 MHz , 15 MHz E	Bandwidth, 16-QA	M Modulation , L	ow Channel +100	0kHz: 1937.6 MHz	2
	Frequency						
	Range			Value (dBm)	Limit (dBm)	Result	
	2			-24.85	-19	Pass	



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Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , Low Channel +100kHz: 1937.6 MHz
Frequency
Range Value (dBm) Limit (dBm) Result
3 -24.71 -19 Pass



F	Port 1, Band n25,	1930 MHz - 1999	5 MHz , 15 MHz E	Bandwidth, 16-QA	M Modulation , F	ligh Channel -100	0kHz: 1987.4 MH:	Z
		Frequency						
_		Range			Value (dBm)	Limit (dBm)	Result	_
		1			-21.43	-19	Pass	



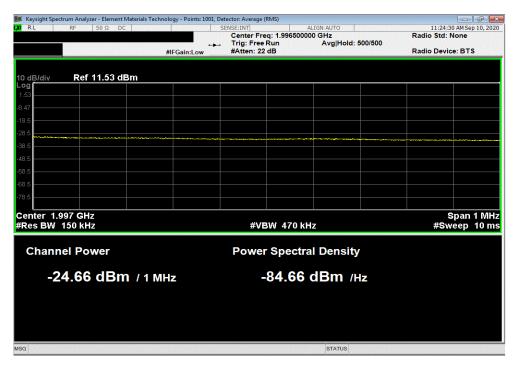
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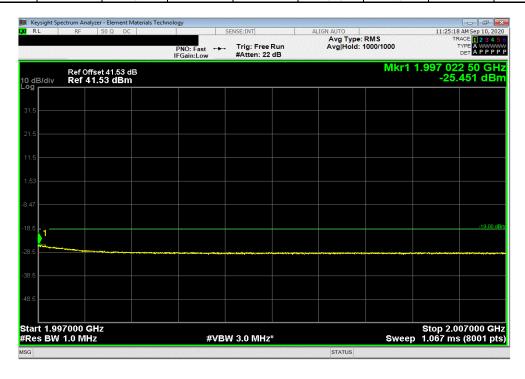
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , High Channel -100kHz: 1987.4 MHz

Frequency
Range Value (dBm) Limit (dBm) Result

2 -24.66 -19 Pass



Port 1, Band n25,	1930 MHz - 1999	5 MHz , 15 MHz E	Bandwidth, 16-QA	M Modulation , F	ligh Channel -100	0kHz: 1987.4 MH	7
	Frequency						
	Range			Value (dBm)	Limit (dBm)	Result	
	3			-25.45	-19	Pass	



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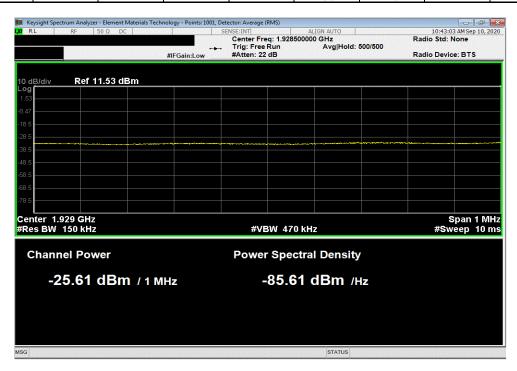
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, Low Channel +100kHz: 1937.6 MHz

Frequency
Range Value (dBm) Limit (dBm) Result

1 -22.12 -19 Pass



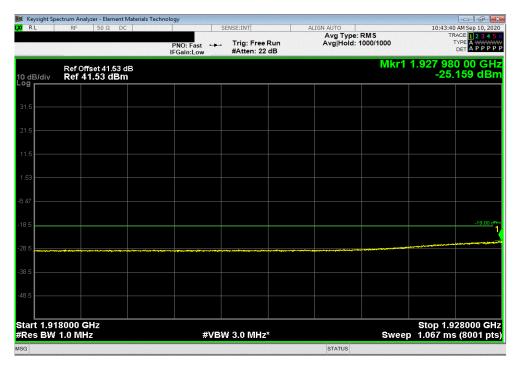
	Port 1, Band n25,	, 1930 MHz - 199	5 MHz , 15 MHz I	Bandwidth, 64-QA	AM Modulation, L	ow Channel +100	kHz: 1937.6 MHz	2
		Frequency						
_		Range			Value (dBm)	Limit (dBm)	Result	
		2			-25.61	-19	Pass	



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Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, Low Channel +100kHz: 1937.6 MHz
Frequency
Range Value (dBm) Limit (dBm) Result
3 -25.16 -19 Pass



F	Port 1, Band n25	, 1930 MHz - 199	5 MHz , 15 MHz I	Bandwidth, 64-QA	AM Modulation, H	ligh Channel -100	kHz: 1987.4 MHz	
		Frequency						
_		Range			Value (dBm)	Limit (dBm)	Result	
ĺ		1			-21.81	-19	Pass	



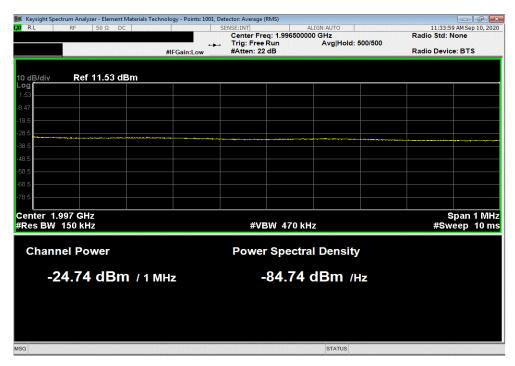
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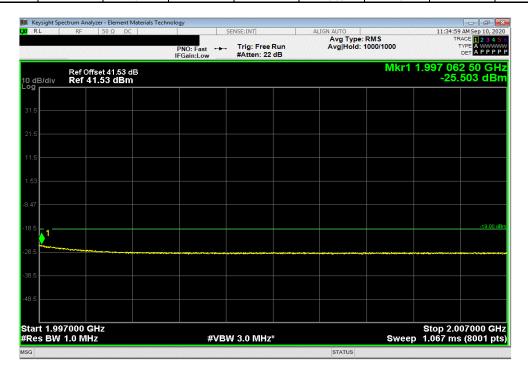
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, High Channel -100kHz: 1987.4 MHz

Frequency
Range Value (dBm) Limit (dBm) Result

2 -24.74 -19 Pass



P	ort 1, Band n25,	, 1930 MHz - 199	5 MHz , 15 MHz I	Bandwidth, 64-QA	AM Modulation, H	igh Channel -100	kHz: 1987.4 MHz	
		Frequency						
		Range			Value (dBm)	Limit (dBm)	Result	
1		3			-25.50	-19	Pass	



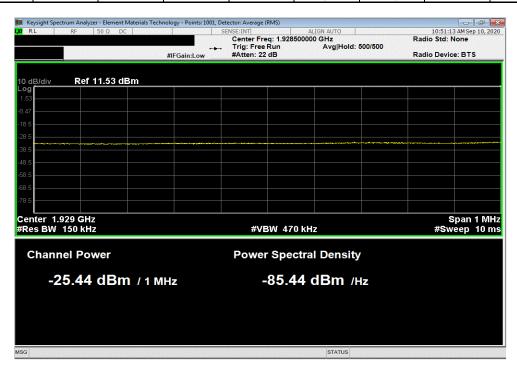
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Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 256-QAM Modulation, Low Channel +100kHz: 1937.6 MHz
Frequency
Range Value (dBm) Limit (dBm) Result
1 -22.34 -19 Pass



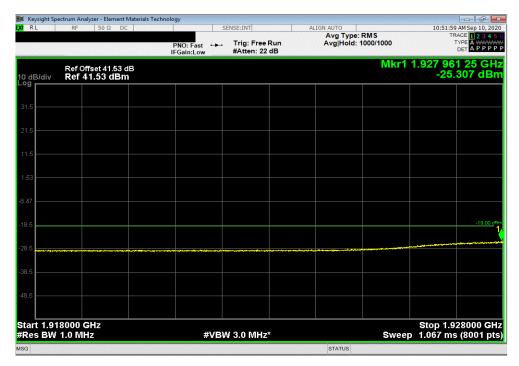
Port 1, Band n25, 19	930 MHz - 1995	MHz, 15 MHz B	andwidth, 256-Q	AM Modulation, L	ow Channel +100	0kHz: 1937.6 MH	Z
	Frequency						
	Range			Value (dBm)	Limit (dBm)	Result	
	2			-25.44	-19	Pass	



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Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 256-QAM Modulation, Low Channel +100kHz: 1937.6 MHz
Frequency
Range Value (dBm) Limit (dBm) Result
3 -25.31 -19 Pass



F	Port 1, Band n25,	1930 MHz - 1995	MHz , 15 MHz E	Bandwidth, 256-Q	AM Modulation, F	High Channel -10	0kHz: 1987.4 MH	Z
		Frequency						
	Range Value (dBm) Limit (dBm) Result							
		1			-21.66	-19	Pass	



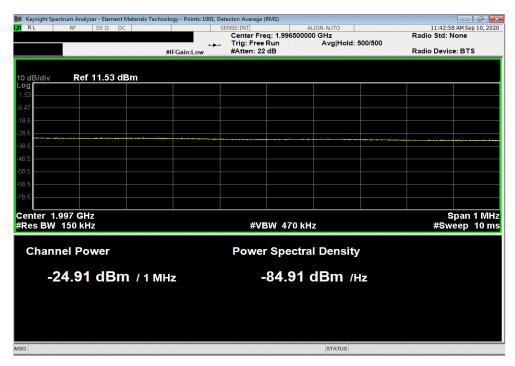
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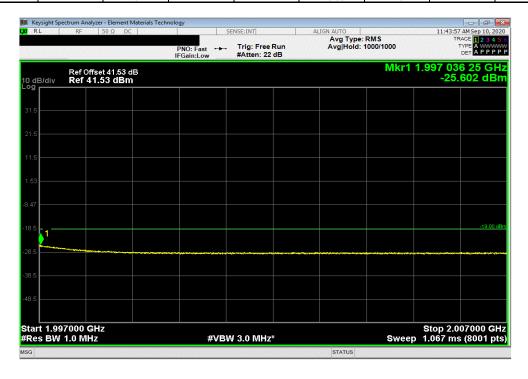
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 256-QAM Modulation, High Channel -100kHz: 1987.4 MHz

Frequency
Range Value (dBm) Limit (dBm) Result

2 -24.91 -19 Pass



Port 1	, Band n25, 1930 MHz - 199	5 MHz , 15 MHz E	Bandwidth, 256-Q	AM Modulation, F	ligh Channel -100	0kHz: 1987.4 MH:	Z
	Frequency						
	Range			Value (dBm)	Limit (dBm)	Result	
	3			-25.60	-19	Pass	



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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	Keysight	N5171B-506	TEW	2-May-18	2-May-21
Generator - Signal	Agilent	N5173B	TIW	17-Jul-20	17-Jul-23

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) and RSS 133 6.5 (ii), 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 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.: -49dBm = -19dBm -10log(1MHz/1kHz)]. 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.: -39dBm = -19dBm -10log(1MHz/10kHz)]. 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 (FHFB) as the original certification test. The FHFB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the original certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

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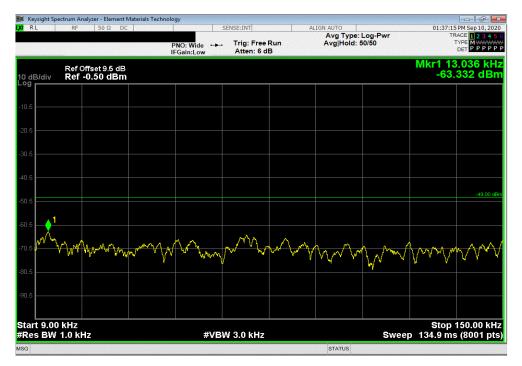


					TbtTx 2020.09.08.0 BETA	XMit 2020
	FHFB (FCC C2PC)			Work Order: N		
Serial Number:		alea.			0-Sep-20	
Attendees:	Nokia Solutions and Networ Mitchell Hill, John Rattanave			Temperature: 2 Humidity: 4	2.8 C 8.3% RH	
Project:		ong			022 mbar	
Tested by:	Brandon Hobbs		Power: 54 VDC	Job Site: T		
ST SPECIFICAT	IONS		Test Method			
C 24E:2020			ANSI C63.26:2015			
SS-133:2018			RSS-133:2018			
OMMENTS						
II measurement p	ath losses were accounted for	or in the reference level offest including an	y attenuators, filters and DC blocks. The carrier p	ower was set to maximum for all testing	ŀ	
EVIATIONS FROM one	I TEST STANDARD					
onfiguration #	1,2,3	Signature	7)~1			
			Frequency Range	Max Value (dBm)	Limit < (dBm)	Result
and 25, 1930 MHz	- 1995 MHz, 5G		range	(dbiii)	< (ubiii)	Result
	Port 1 5 MHz Bandwdit	th				
		PSK Modulation				
		Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-63.33	-49	Pass
		Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-53.40	-39	Pass
		Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-25.53	-19 -10	Pass
		Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-38.02	-19 10	Pass
		Mid Channel, 1962.5 MHz Mid Channel, 1962.5 MHz	10 GHz - 18 GHz 18 GHz - 22 GHz	-35.65 -35.68	-19 -19	Pass Pass
	16-	-QAM Modulation	10 0112 - 22 0112	-33.06	-10	rass
	10	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-63.49	-49	Pass
		Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-53.28	-39	Pass
		Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-25.27	-19	Pass
		Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-38.35	-19	Pass
		Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-36.57	-19	Pass
	_	Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-36.66	-19	Pass
	64-	-QAM Modulation	0111 450111	0.4.00	40	
		Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-64.66	-49	Pass
		Mid Channel, 1962.5 MHz Mid Channel, 1962.5 MHz	150 kHz - 20 MHz 20 MHz - 3 GHz	-53.47 -24.57	-39 -19	Pass Pass
		Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-24.57 -38.60	-19 -19	Pass
		Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-36.48	-19 -19	Pass
		Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-36.33	-19	Pass
	250	6-QAM Modulation	TO STILL ELE STILL	50.00		. 400
		Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-64.67	-49	Pass
		Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-53.48	-39	Pass
		Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-24.76	-19	Pass
		Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-38.10	-19	Pass
		Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-35.61	-19	Pass
		Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-35.10	-19	Pass
	10 MHz Bandwd	lith 6-QAM Modulation				
		Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-66.96	-49	Pass
		Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-53.12	-39	Pass
		Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-25.15	-19	Pass
		Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-38.91	-19	Pass
		Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-35.90	-19	Pass
	15 MHz Bandwd	Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-36.35	-19	Pass
		6-QAM Modulation				
		Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-68.23	-49	Pass
		Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-52.73	-39	Pass
		Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-25.22	-19	Pass
		Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-38.23	-19	Pass
		Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-36.89	-19	Pass
	20 MHz Bandwd	Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-36.10	-19	Pass
		6-QAM Modulation				
		Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-66.25	-49	Pass
		Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-52.87	-39	Pass
		Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-24.52	-19	Pass
		Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-37.73	-19	Pass
		Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-36.00 36.57	-19 10	Pass
		Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-36.57	-19	Pass

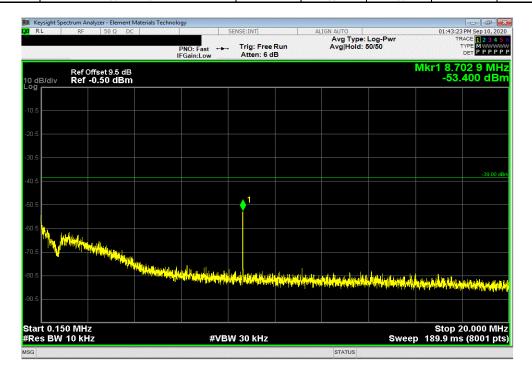
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Band 25, 1930 MHz -	1995 MHz, 5G, Port 1, 5 MHz Band	wdith, QPSK Modulation	, Mid Channel,	1962.5 MHz
Frequ	ency	Max Value	Limit	
Ran	ge	(dBm)	< (dBm)	Result
9 kHz - 1	50 kHz	-63.33	-49	Pass



Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5	MHz Bandwdith,	QPSK Modulatio	n , Mid Channel,	1962.5 MHz
Frequency		Max Value	Limit	
Range		(dBm)	< (dBm)	Result
150 kHz - 20 MHz		-53.4	-39	Pass



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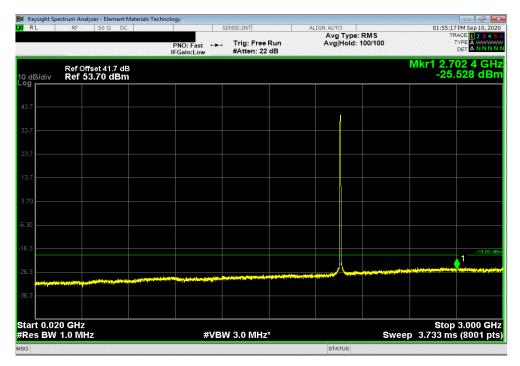


Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, QPSK Modulation , Mid Channel, 1962.5 MHz

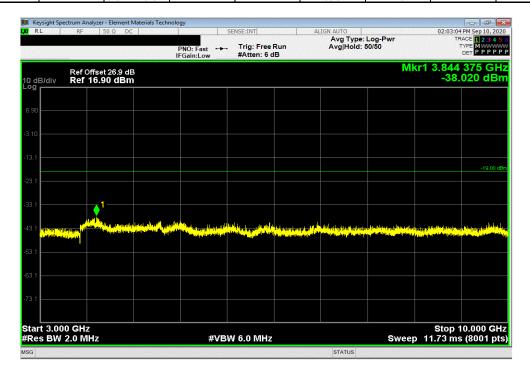
Frequency
Max Value
Limit
Range
(dBm) < (dBm) Result

20 MHz - 3 GHz

-25.53
-19
Pass



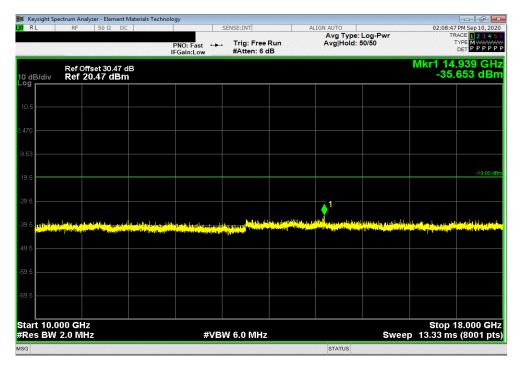
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5	MHz Bandwdith,	QPSK Modulatio	n , Mid Channel,	1962.5 MHz
Frequency		Max Value	Limit	
 Range		(dBm)	< (dBm)	Result
3 GHz - 10 GHz		-38.02	-19	Pass



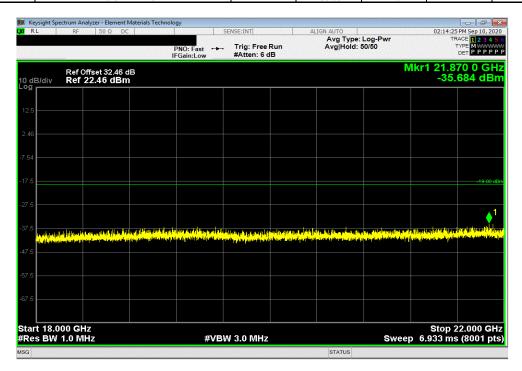
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	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5	MHz Bandwdith,	QPSK Modulatio	n , Mid Channel,	1962.5 MHz	
	Frequency		Max Value	Limit		
_	Range		(dBm)	< (dBm)	Result	_
	10 GHz - 18 GHz		-35.65	-19	Pass	



Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5	MHz Bandwdith,	QPSK Modulatio	n , Mid Channel,	1962.5 MHz
Frequency		Max Value	Limit	
Range		(dBm)	< (dBm)	Result
18 GHz - 22 GHz		-35.68	-19	Pass

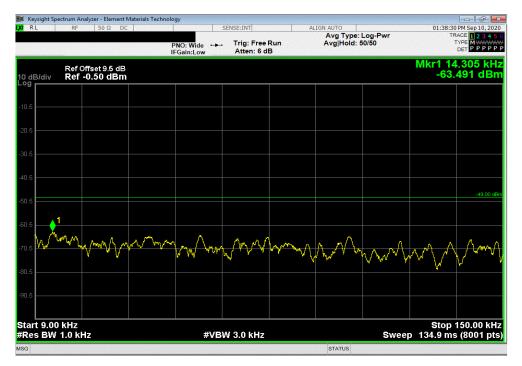


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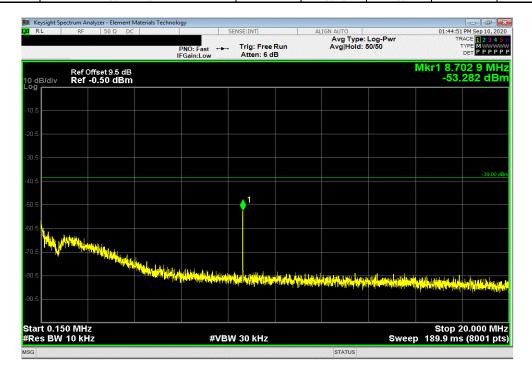


Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 16-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency
Max Value
Limit
Range
(dBm) < (dBm)
9 kHz - 150 kHz
-63.49
-49
Pass



Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz	Bandwdith, 16-QAM Modula	tion, Mid Channel	, 1962.5 MHz
Frequency	Max Value	Limit	
Range	(dBm)	< (dBm)	Result
150 kHz - 20 MHz	-53.28	-39	Pass



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Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 16-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency

Range

(dBm)

(dBm)

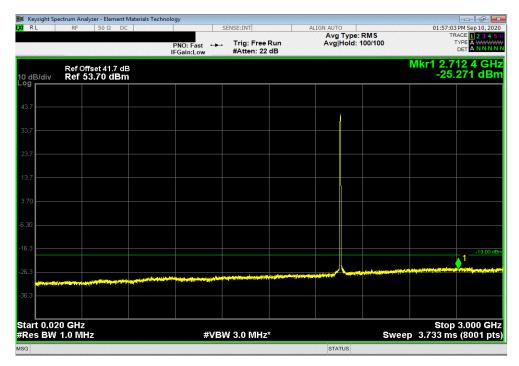
Result

20 MHz - 3 GHz

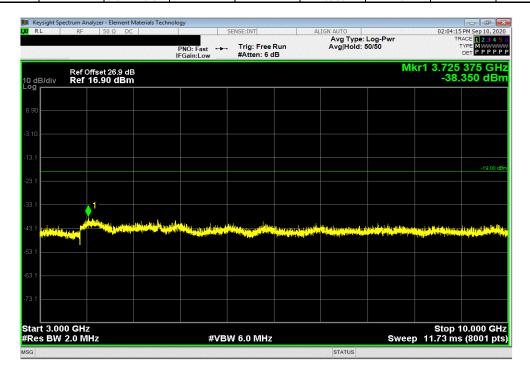
-25.27

-19

Pass



Band 25	, 1930 MHz - 1995 MHz, 5G, Port 1, 5	MHz Bandwdith,	16-QAM Modulati	on, Mid Channel	, 1962.5 MHz
	Frequency		Max Value	Limit	
	Range		(dBm)	< (dBm)	Result
	3 GHz - 10 GHz		-38.35	-19	Pass



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Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 16-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency

Range

(dBm)

(dBm)

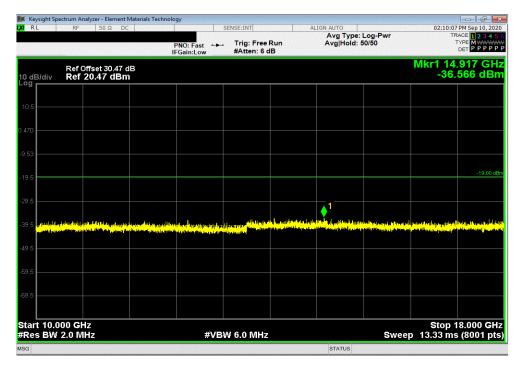
Result

10 GHz - 18 GHz

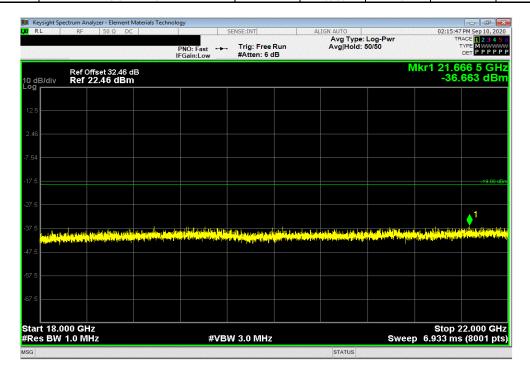
-36.57

-19

Pass



Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MH	dz Bandwdith, 16-QAM Modula	ion, Mid Channel	, 1962.5 MHz
Frequency	Max Value	Limit	
Range	(dBm)	< (dBm)	Result
18 GHz - 22 GHz	-36.66	-19	Pass



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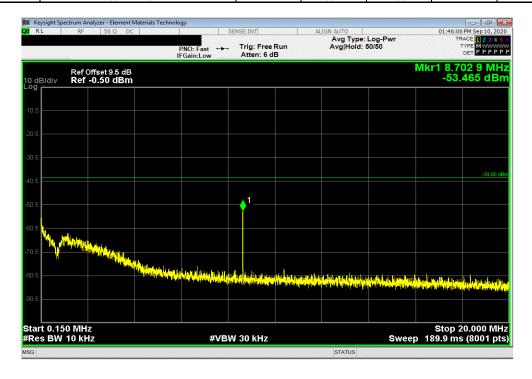


Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 64-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency
Max Value
Limit
Range
(dBm) < (dBm) Result
9 kHz - 150 kHz
-64.66 -49 Pass



	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5	MHz Bandwdith,	64-QAM Modulati	on, Mid Channel,	, 1962.5 MHz
	Frequency		Max Value	Limit	
	Range		(dBm)	< (dBm)	Result
i	150 kHz - 20 MHz		-53.47	-39	Pass

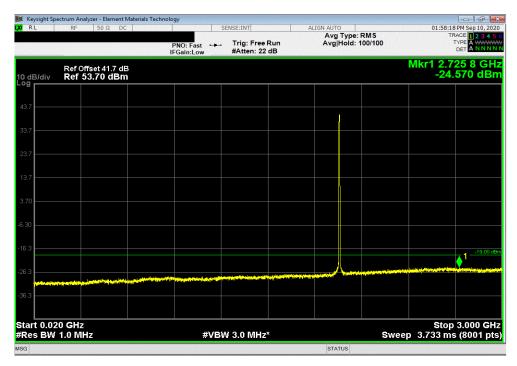


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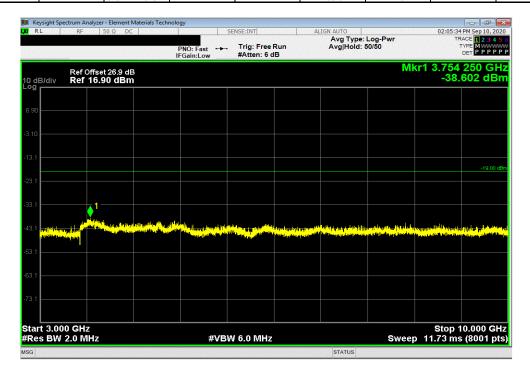


Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 64-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency
Range
(dBm)
-24.57
-19
Pass



Band 25	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 64-QAM Modulation, Mid Channel, 1962.5 MHz				
	Frequency		Max Value	Limit	
	Range		(dBm)	< (dBm)	Result
	3 GHz - 10 GHz		-38.6	-19	Pass



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Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 64-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency

Range

(dBm)

(dBm)

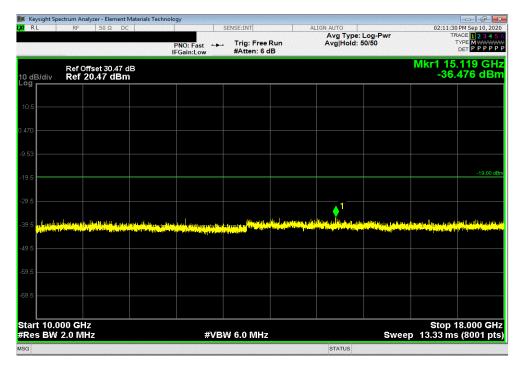
Result

10 GHz - 18 GHz

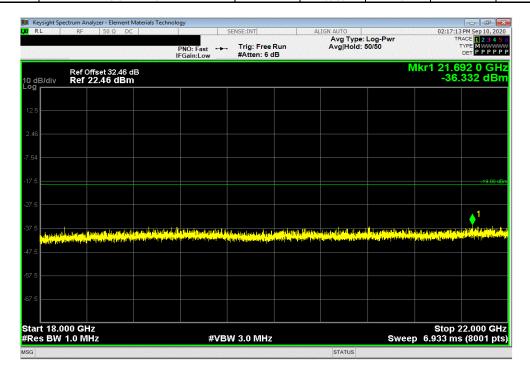
-36.48

-19

Pass



	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 64-QAM Modulation, Mid Channel, 1962.5 MHz				
	Frequency		Max Value	Limit	
	Range		(dBm)	< (dBm)	Result
1	18 GHz - 22 GHz		-36.33	-19	Pass

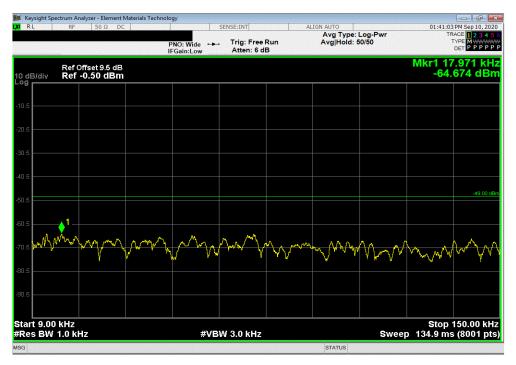


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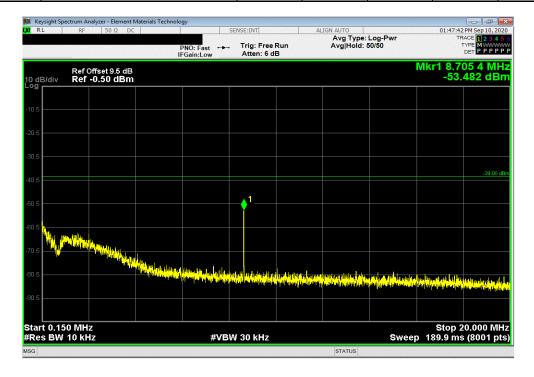


Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency
Max Value
Limit
Range
(dBm) < (dBm) Result
9 kHz - 150 kHz
-64.67 -49 Pass



Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
	Frequency		Max Value	Limit	
_	Range		(dBm)	< (dBm)	Result
ĺ	150 kHz - 20 MHz		-53.48	-39	Pass



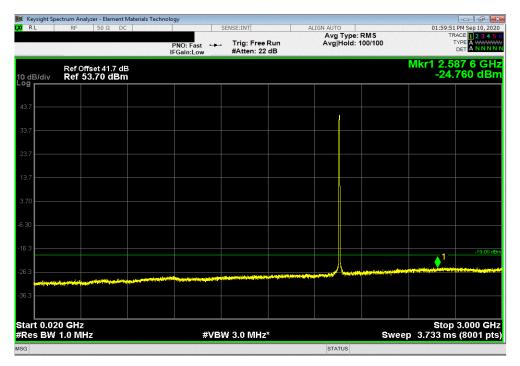
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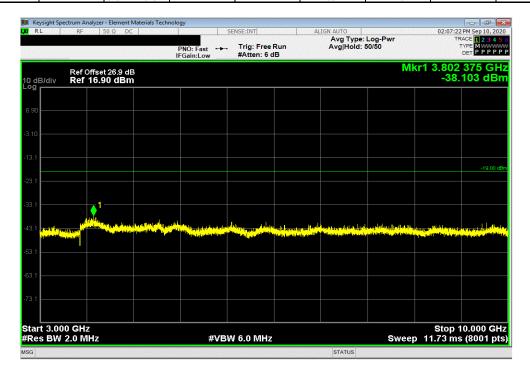
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency
Max Value
Limit
Range
(dBm) < (dBm) Result
20 MHz - 3 GHz

-24.76 -19 Pass



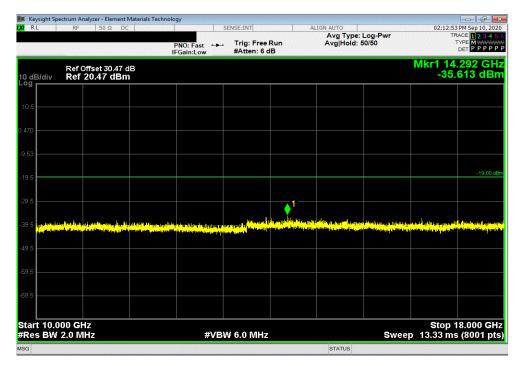
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency	Max Value	Limit			
Range	(dBm)	< (dBm)	Result		
3 GHz - 10 GHz	-38.1	-19	Pass		



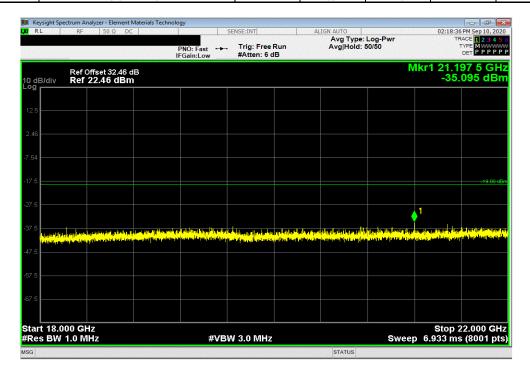
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Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 M	ИНz Bandwdith, 2	256-QAM Modulat	ion, Mid Channe	, 1962.5 MHz	
Frequency		Max Value	Limit		
Range		(dBm)	< (dBm)	Result	
10 GHz - 18 GHz		-35.61	-19	Pass	



	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
	Frequency		Max Value	Limit	
_	Range		(dBm)	< (dBm)	Result
ĺ	18 GHz - 22 GHz		-35.1	-19	Pass



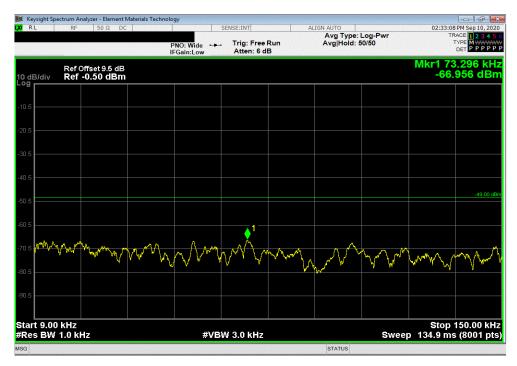
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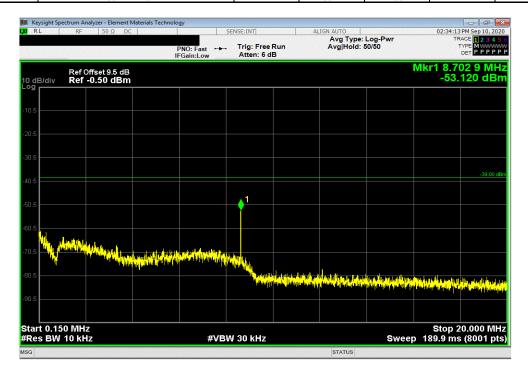
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency
Range
(dBm) < (dBm)
P kHz - 150 kHz

-66.96
-49
Pass



В	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
	Frequency		Max Value	Limit		
	Range		(dBm)	< (dBm)	Result	
	150 kHz - 20 MHz		-53.12	-39	Pass	



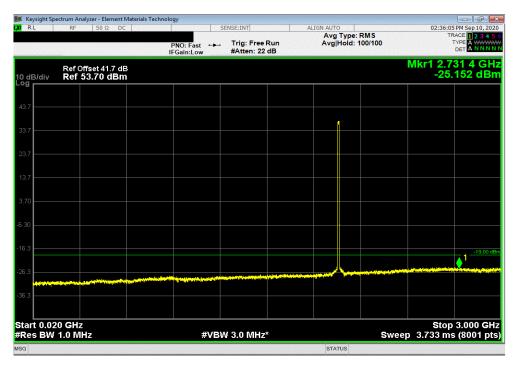
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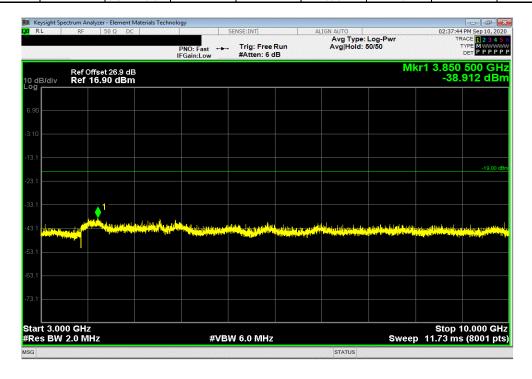
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency
Max Value
Limit
Range
(dBm) < (dBm) Result
20 MHz - 3 GHz

-25.15 -19 Pass



Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MH	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency	Max Value	Limit				
Range	(dBm)	< (dBm)	Result			
3 GHz - 10 GHz	-38.91	-19	Pass			



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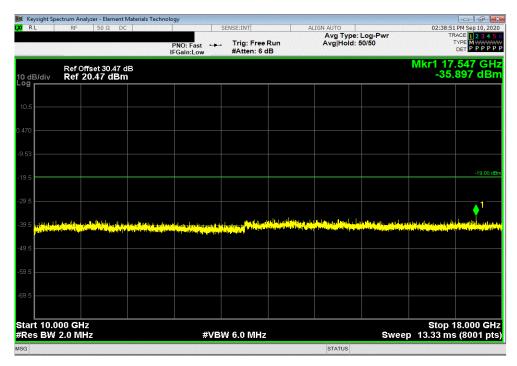


Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz

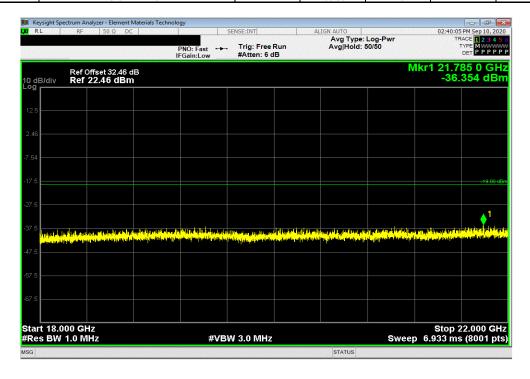
Frequency
Max Value
Limit

Range
(dBm) < (dBm)
Result

10 GHz - 18 GHz
-35.9
-19
Pass

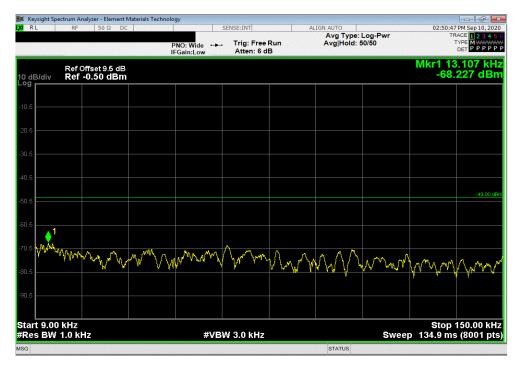


Band 25, 1930 MHz	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Fr	equency		Max Value	Limit		
	Range		(dBm)	< (dBm)	Result	
18 G	Hz - 22 GHz		-36.35	-19	Pass	

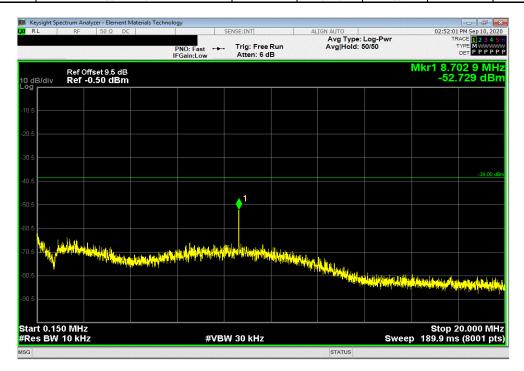


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Band 25, 1	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
	Frequency		Max Value	Limit		
	Range		(dBm)	< (dBm)	Result	
	150 kHz - 20 MHz		-52.73	-39	Pass	

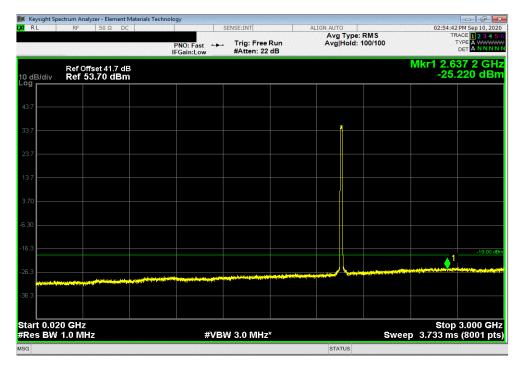


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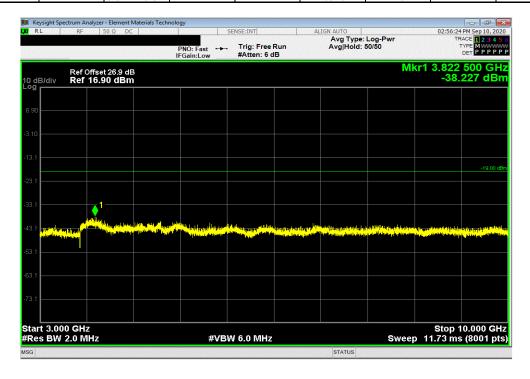


Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz

Frequency
Range
(dBm) < (dBm)
Result
20 MHz - 3 GHz
-25.22
-19
Pass



Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MH	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency	Max Value	Limit				
Range	(dBm)	< (dBm)	Result			
3 GHz - 10 GHz	-38.23	-19	Pass			



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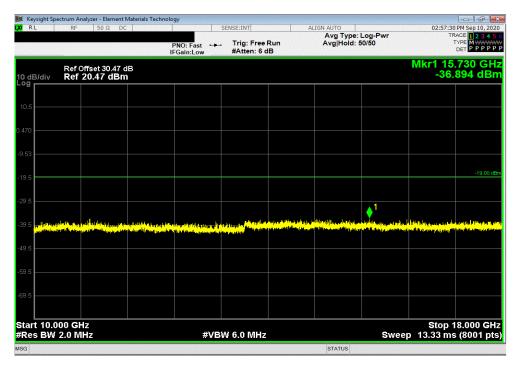


Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz

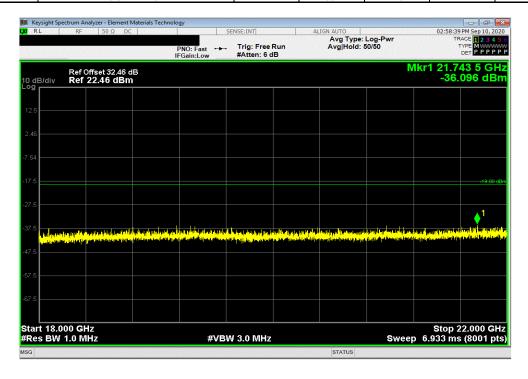
Frequency
Max Value
Limit

Range
(dBm) < (dBm)
Result

10 GHz - 18 GHz
-36.89
-19
Pass

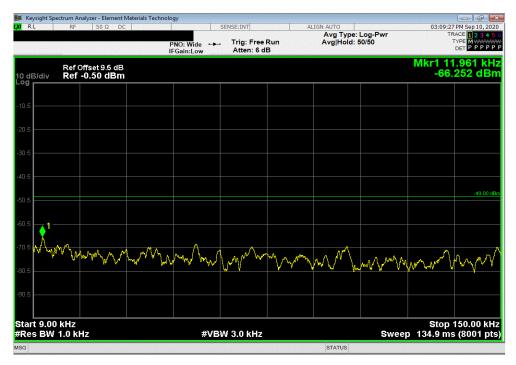


	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
	Frequency		Max Value	Limit		
_	Range		(dBm)	< (dBm)	Result	
	18 GHz - 22 GHz		-36.1	-19	Pass	

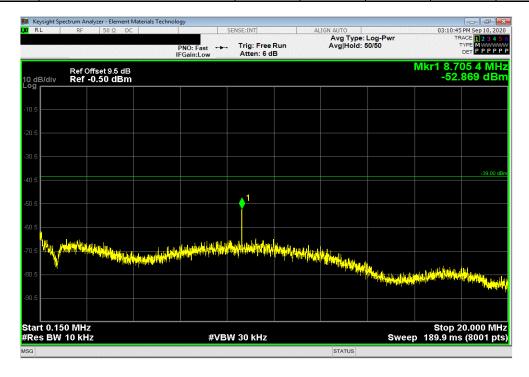


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	Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 I	MHz Bandwdith, 2	256-QAM Modula	tion, Mid Channe	I, 1962.5 MHz
	Frequency		Max Value	Limit	
_	Range		(dBm)	< (dBm)	Result
ı	150 kHz - 20 MHz		-52.87	-39	Pass



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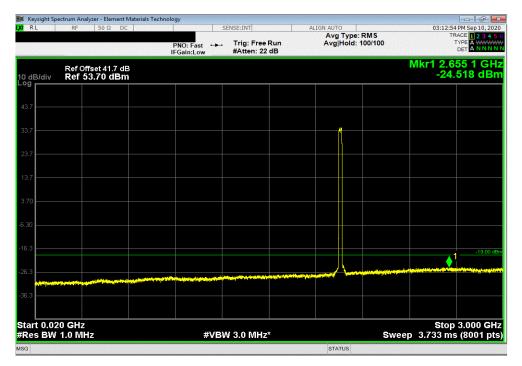


 Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz

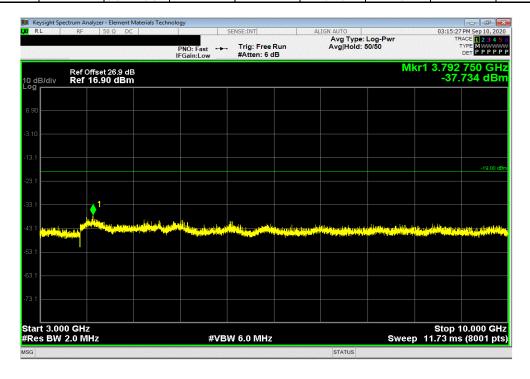
 Frequency
 Max Value
 Limit

 Range
 (dBm)
 < (dBm)</th>
 Result

 20 MHz - 3 GHz
 -24.52
 -19
 Pass



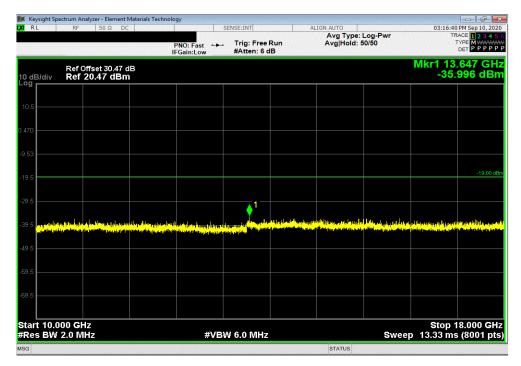
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MI	Hz Bandwdith, 256-QAM Modula	ation, Mid Channe	el, 1962.5 MHz
Frequency	Max Value	Limit	
Range	(dBm)	< (dBm)	Result
3 GHz - 10 GHz	-37.73	-19	Pass



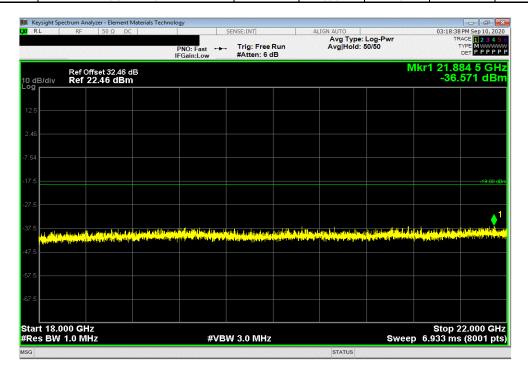
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Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz	Bandwdith, 256-QAM Modula	ation, Mid Channe	el, 1962.5 MHz
Frequency	Max Value	Limit	
Range	(dBm)	< (dBm)	Result
10 GHz - 18 GHz	-36	-19	Pass



Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 I	MHz Bandwdith, 2	256-QAM Modula	tion, Mid Channe	I, 1962.5 MHz
Frequency		Max Value	Limit	
Range		(dBm)	< (dBm)	Result
18 GHz - 22 GHz		-36.57	-19	Pass



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