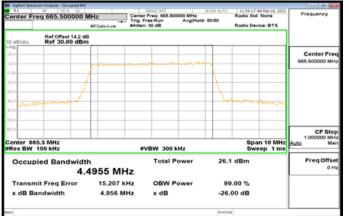
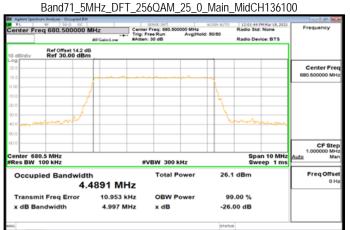


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Band71_5MHz_DFT_256QAM_25_0_Main_LowCH133100



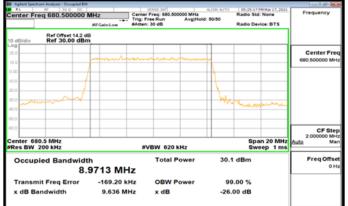


Band71_5MHz_DFT_256QAM_25_0_Main_HighCH139100

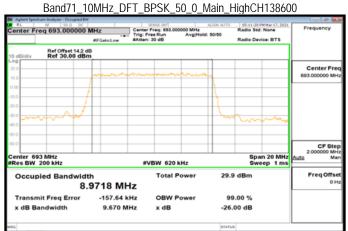


Band71_10MHz_DFT_BPSK_50_0_Main_LowCH133600





Band71 10MHz DFT BPSK 50 0 Main MidCH136100



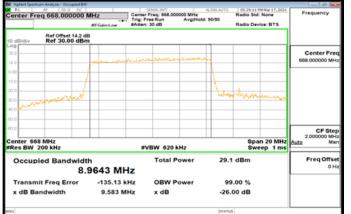
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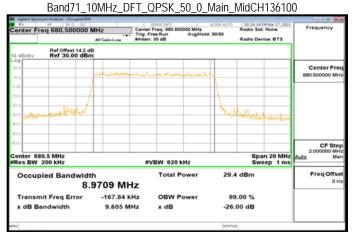
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Band71_10MHz_DFT_QPSK_50_0_Main_LowCH133600



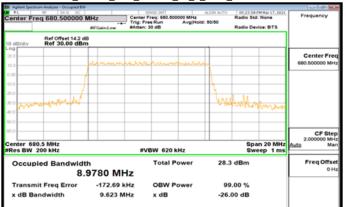


Band71_10MHz_DFT_QPSK_50_0_Main_HighCH138600



05-29-27 PH Har 1 Radio Std: None nter Freg 668.000000 MHz Ref Offset 14.2 dE Ref 30.00 dBm Center Fr CF Step Span 20 MHz r 668 N #VBW 620 kHz Occupied Bandwidth Total Power 28.4 dBm Freq Offse 0 1 8.9547 MHz Transmit Freq Error -140.41 kHz **OBW Power** 99.00 % x dB Bandwidth 9.584 MHz -26.00 dB x dB

Band71_10MHz_DFT_16QAM_50_0_Main_LowCH133600



Band71_10MHz_DFT_16QAM_50_0_Main_MidCH136100

Band71_10MHz_DFT_16QAM_50_0_Main_HighCH138600



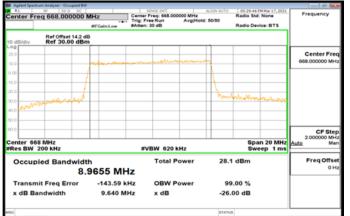
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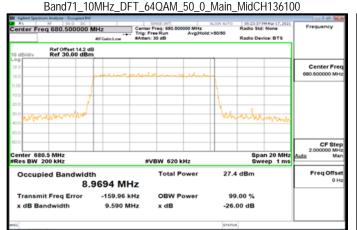
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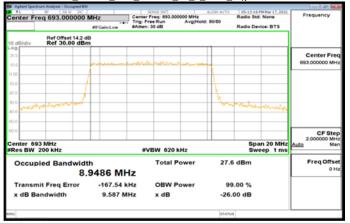
Report No.: ER/2021/20012 Page: 112 of 284

Band71_10MHz_DFT_64QAM_50_0_Main_LowCH133600





Band71_10MHz_DFT_64QAM_50_0_Main_HighCH138600



05-30:05 PH Har 1 Radio Std: None nter Freq 668.000000 MHz Ref Offset 14.2 dB Ref 30.00 dBm Center Fr CF Step Span 20 MHz r 668 M #VBW 620 kHz Occupied Bandwidth Total Power 25.6 dBm Freq Offse 0 1 8.9615 MHz Transmit Freq Error -144.30 kHz **OBW Power** 99.00 %

Band71_10MHz_DFT_256QAM_50_0_Main_LowCH133600

05:22:41 PH Har 12 Radio Std: None enter Freg 680,500000 MHz Center Freq: 680.500000 MHz Ref Offset 14.2 Center Fre CF Step 2.00 Span 20 MH r 680.5 MHz BW 200 kHz #VBW 620 kHz Freq Offse Occupied Bandwidth Total Power 26.1 dBm 0 H 8.9815 MHz Transmit Freq Error -170.17 kHz **OBW Power** 99.00 %

Band71_10MHz_DFT_256QAM_50_0_Main_MidCH136100

x dB

-26.00 dB

-26.00 dE

9.625 MHz

9.695 MHz

x dB Bandwidth

dB Bandwidth



Band71_10MHz_DFT_256QAM_50_0_Main_HighCH138600

x dB

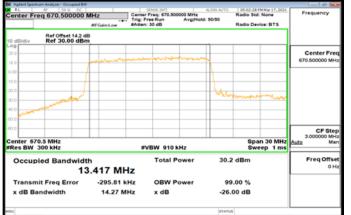
Center Fre CF Step 2.0 Span 20 MHz BW 200 kHz #VBW 620 kHz Freq Offse Occupied Bandwidth Total Power 25.8 dBm 8.9867 MHz Transmit Freq Error -160.48 kHz 99.00 % **OBW Power** 9.574 MHz -26.00 dB dB Bandwidth x dB

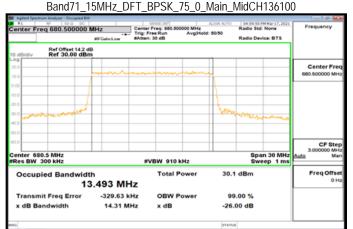
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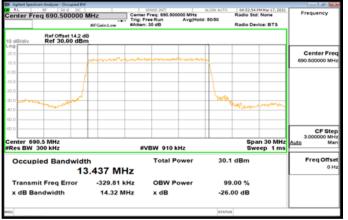
Report No.: ER/2021/20012 Page: 113 of 284

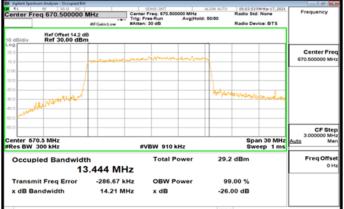
Band71_15MHz_DFT_BPSK_75_0_Main_LowCH134100



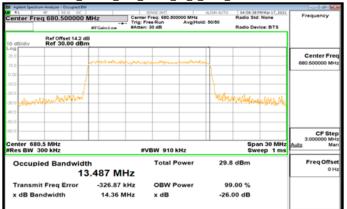


Band71_15MHz_DFT_BPSK_75_0_Main_HighCH138100





Band71_15MHz_DFT_QPSK_75_0_Main_LowCH134100



Band71 15MHz DFT QPSK 75 0 Main MidCH136100

Band71_15MHz_DFT_QPSK_75_0_Main_HighCH138100

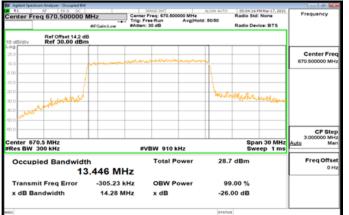
₩ <u>500 00</u> eq 690.500000 I	Trig	FreeRun Avg/Hold	ALIGN AUTO 5: 50/50		Frequency
Ref Offset 14.2 d Ref 30.00 dBr	B				
	monen	an and the second second	~		Center Free 690.500000 MH
en and the second			hannah	hellen torrespondence	
					CF Ste
0.5 MHz 300 kHz		#VBW 910 kHz		Span 30 MHz Sweep 1 ms	3.000000 MH
		Total Power	29.1	dBm	Freq Offse 0 H
it Freq Error Indwidth	-338.62 kHz 14.23 MHz	OBW Power x dB			
	Ref Offiset 14.2 a Ref Offiset 14.2 a Ref 30.00 dBn user office 14	Ref Offset 14.2 dB Ref Offset 14.2 dB Ref 30.00 dBm Udwer with a set of the s	Seq 690.500000 MHz Center Free: 969.5000 MHz Bit Galin.Lew Tig: Pres 100 Ref officet 14.2 dB Avgehele Ref 30.00 dBm Avgehele 0.3 MHz SVBW 910 kHz 100 kHz Total Power 13.464 MHz OBW Power	Ref Offset 14.2 eB Ref Offse	In Galo, 500000 MHz Concerner Free, 90, 5000 MHz Radio 5010 MHz BTGalmater Free, 90, 5000 MHz Radio 5010 MHz Radio Device, BTS Ref 30, 00 dBm Concerner free, 90, 600 MHz Concerner free, 90, 600 MHz Radio Device, BTS Ref 30, 00 dBm Concerner free, 90, 600 MHz Concerner free, 90, 00 MHz Concerne free, 90, 00 MHz Concer

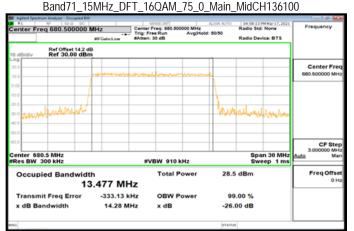
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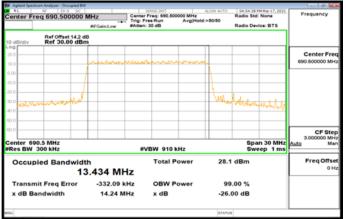
Report No.: ER/2021/20012 Page: 114 of 284

Band71_15MHz_DFT_16QAM_75_0_Main_LowCH134100



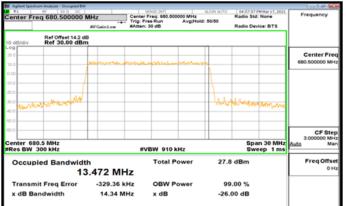


Band71_15MHz_DFT_16QAM_75_0_Main_HighCH138100



65:04:38 PH Har I Radio Std: None ter Freq 670.500000 MHz Ref Offset 14.2 dl Ref 30.00 dBm Center Fr CF Step Span 30 MHz r 670.5 MHz BW 300 kHz #VBW 910 kHz Occupied Bandwidth Total Power 28.2 dBm Freq Offse OH 13.437 MHz Transmit Freq Error -279.95 kHz **OBW Power** 99.00 % x dB Bandwidth 14.25 MHz -26.00 dB x dB

Band71_15MHz_DFT_64QAM_75_0_Main_LowCH134100



Band71 15MHz DFT 64QAM 75 0 Main MidCH136100

Band71_15MHz_DFT_64QAM_75_0_Main_HighCH138100

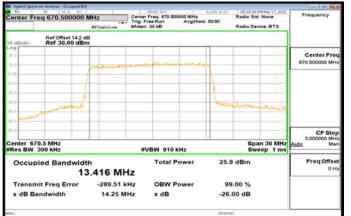
Transmit Freq Error x dB Bandwidth	-315.27 kHz 14.29 MHz	OBW Power x dB	99.00 % -26.00 dB	
Occupied Bandwid	^{ith} 3.451 MHz	Total Power	27.7 dBm	Freq Offs 01
Center 690.5 MHz Res BW 300 kHz		VBW 910 kHz	Span 3 Sweep	30 MHz Auto Mi
0.0				CF Ste 3.000000 MH
0.0				
0.0				· · · · · · · · · · · · · · · · · · ·
10 philing and more thank and			handfreenen	
2.0				
.00				
0.0		and a contraction	4	690.500000 Mi
0.0				Center Fre
0 dB/div Ref 30.00 dE				
	AlfGain:Low SAtte	in: 30 dB	Radio Device:	BTS
enter Freq 690.50000	MHz Cent	er Freq: 690.500000 MHz Free Run Avg/Hold	Radio Std: No	Frequency

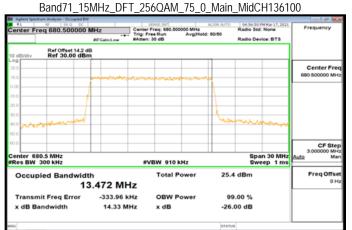
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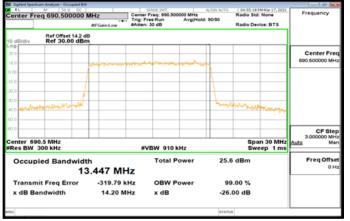
Report No.: ER/2021/20012 Page: 115 of 284

Band71_15MHz_DFT_256QAM_75_0_Main_LowCH134100

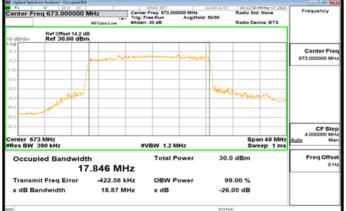




Band71_15MHz_DFT_256QAM_75_0_Main_HighCH138100



Band71_20MHz_DFT_BPSK_100_0_Main_LowCH134600





Band71 20MHz DFT BPSK 100 0 Main MidCH136100

Band71_20MHz_DFT_BPSK_100_0_Main_HighCH137600

at # 56.0 00 Center Freq 688.000000	Trig:	r Freq: 688.000000 MHz Free Run Avg Hold h: 30 dB	Radio Std: M	
0 dB/div Ref 30.00 dBr	8 n			
20.0	Juna			Center Free 688.000000 MH
0.00				
no			WYWWWWWWWW	al a manda an
0.0				
Center 688 MHz Res BW 390 kHz		VBW 1.2 MHz	Span	CF Ste 4.000000 MH 40 MHz Auto Ma
Occupied Bandwidt		Total Power	30.4 dBm	Freq Offse 0 H
Transmit Freq Error	-482.95 kHz	OBW Power	99.00 %	
x dB Bandwidth	18.94 MHz	x dB	-26.00 dB	

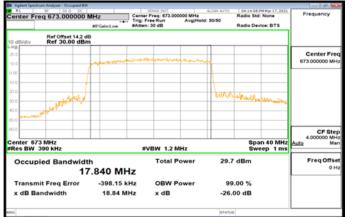
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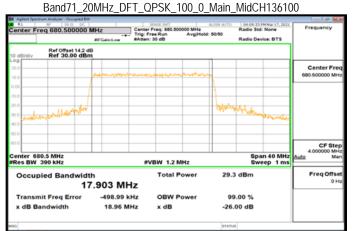
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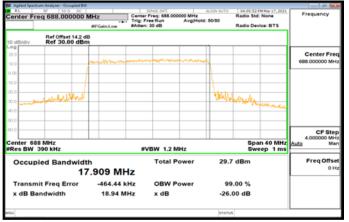
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Band71_20MHz_DFT_QPSK_100_0_Main_LowCH134600



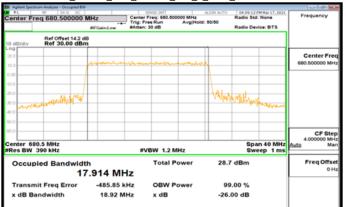


Band71_20MHz_DFT_QPSK_100_0_Main_HighCH137600



Radio Std: None nter Freg 673.000000 MHz Ref Offset 14.2 dl Ref 30.00 dBm Center Fr Ner politich بالرار CF Step r 673 MHz BW 390 kHz Span 40 MHz #VBW 1.2 MHz Occupied Bandwidth Total Power 28.5 dBm Freq Offse OH 17.798 MHz Transmit Freq Error -447.32 kHz **OBW Power** 99.00 % x dB Bandwidth 18.84 MHz -26.00 dB x dB

Band71_20MHz_DFT_16QAM_100_0_Main_LowCH134600



Band71_20MHz_DFT_16QAM_100_0_Main_MidCH136100

Band71_20MHz_DFT_16QAM_100_0_Main_HighCH137600

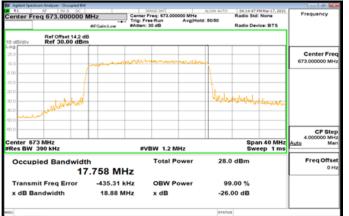
₩ 50 0 DC eq 688.000000 M	Tri	g: Free Run Avg/Hol	ALIGN AUTO 04.06:11 PM Mar 17, 2 Radio Std: None Id: 50/50 Radio Device: BTS	Frequency
	and a second second	an a		Center Fre 688.000000 MH
mehendelill			Willelyntallynnar	-
				CF Ste
8 MHz 390 kHz		#VBW 1.2 MHz	Span 40 Mi Sweep 1 n	4.000000 MH Hz Auto Ma
		Total Power	28.4 dBm	Freq Offse 0 H
it Freq Error Indwidth	-460.05 kHz 18.83 MHz	OBW Power x dB	99.00 % -26.00 dB	
	Ref Offset 142 al Ref Offset 142 al Ref 30.00 dBr and all all all all all all all all all al	Ref Offset 142 dB Ref 30.00 dBm Ref 30.00 dB	Ref 0680.000000 MHz BTGarbacker Ref 0ffset 14.2 dB Ref 0ffset 1	Ref 0568.000000 MHz BTG deal.cov Ref 0564 142 dB Ref 0

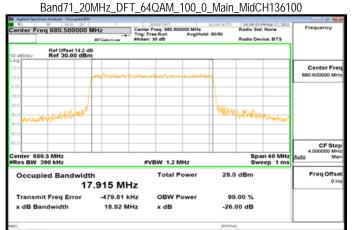
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台灣檢驗科技股份有限公司	t (886-2) 2299-3279	f (886-2) 2298-0488	www.sgs.com.tw

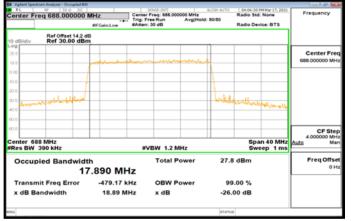


Band71_20MHz_DFT_64QAM_100_0_Main_LowCH134600

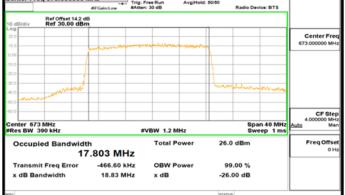


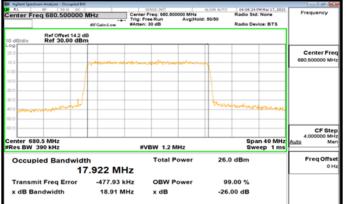


Band71_20MHz_DFT_64QAM_100_0_Main_HighCH137600



Band71_20MHz_DFT_256QAM_100_0_Main_LowCH134600 Radio Std: None nter Freq 673.000000 MHz





Band71_20MHz_DFT_256QAM_100_0_Main_MidCH136100

Band71_20MHz_DFT_256QAM_100_0_Main_HighCH137600

Center Freq 688.00000	0 MHz Cent	sense ant r Freq: 688.000000 MHz Free Run Avg Hold n: 30 dB	ALIGN AUTO 04.06.51 PM Har 17, Radio Std: None 1: 50/50 Radio Device: BTS	Frequency
Ref Offset 14.2 10 dB/div Ref 30.00 dl	dB Bm			
20.0		Kong Marine Parlanage		Center Free 688.000000 MH
10.0				
30.0 40.0	/		handrenning	
50.0				CF Step 4.000000 MH
Center 688 MHz Res BW 390 kHz		VBW 1.2 MHz	Span 40 M Sweep 1	IHz Auto Mar
Occupied Bandwi	^{dth} 17.926 MHz	Total Power	26.3 dBm	Freq Offse 0 H
Transmit Freq Error x dB Bandwidth	-470.70 kHz 18.91 MHz	OBW Power x dB	99.00 % -26.00 dB	
x dB Bandwidth	18.91 MHz	x dB	-26.00 dB	

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OUT OF BAND EMISSION AT ANTENNA TERMINALS 8

8.1 **Standard Applicable**

FCC §22.917(a)(b), §24.238(a), §27.53(g), §27.53(h), §27.53(m)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.6, RSS-199 §4.5 Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC §27.53(g) 5G NR n12, n71

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be emploved.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P) dB$;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

ISED RSS-130 §4.7.1 for 5G NR n12, n71

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log10 p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

ISED RSS-133 §6.5.1 for 5G NR n2, n25

Equipment shall comply with the limits in (i) and (ii) below.

- i. In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p(watts).
- ii. After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p(watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

FCC §27.53(h)(1) for 5G NR n66

(h) AWS emission limits-(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log₁₀ (P) dB.

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RSS-139 §6.6 for5G NR n66

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log 10 p$ (watts) dB.

FCC §27.53(m) (4) (6) for 5G NR n7, n38

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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RSS-199 §4.5 for 5G NR n7, n38

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

40 + 10 log10 p from the channel edges to 5 MHz away

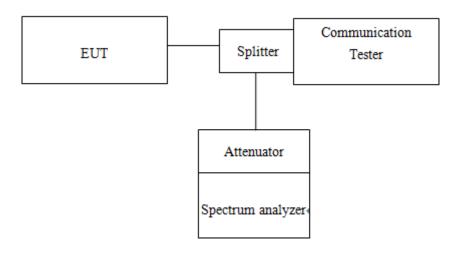
43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and

55 + 10 log10 p at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

8.2 Test SET-UP



8.3 Measurement Procedure

8.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize

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4. Repeat above procedures until all default test channel measured were complete.

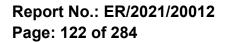
8.4 **Measurement Equipment Used**

Conducted Emission Test Site: Conducted 3							
EQUIPMENT	EQUIPMENT MFR			LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/19/2020	11/18/2021		
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/22/2020	12/21/2021		
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021		
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021		
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021		
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021		
Power Divider	RF-LAMBDA	RFLT2W1G1 8G	18112200202	12/16/2020	12/15/2021		

8.5 **Measurement Result:**

Refer to next pages.

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Out of Band Emission

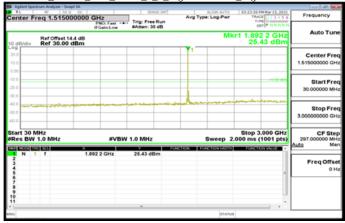
Band2_20MHz_DFT_BPSK_1_1_LowCH372000_LowCH372000



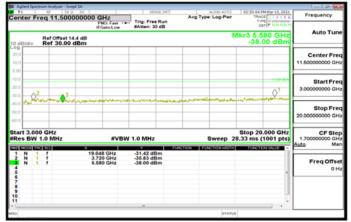
Band2_20MHz_DFT_BPSK_1_1_MidCH376000_MidCH376000



Band2_20MHz_DFT_BPSK_1_1_HighCH380000_HighCH380000



Band2_20MHz_DFT_BPSK_1_1_LowCH372000_LowCH372000



Band2_20MHz_DFT_BPSK_1_1_MidCH376000_MidCH376000



Band2_20MHz_DFT_BPSK_1_1_HighCH380000_HighCH380000



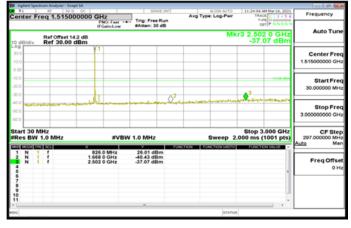
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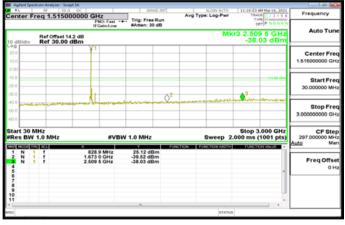


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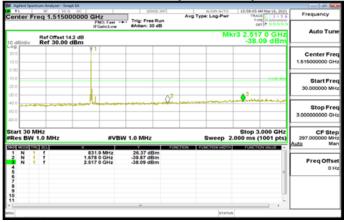
Band5_20MHz_DFT_BPSK_1_1_LowCH166800_LowCH166800



Band5_20MHz_DFT_BPSK_1_1_MidCH167300_MidCH167300



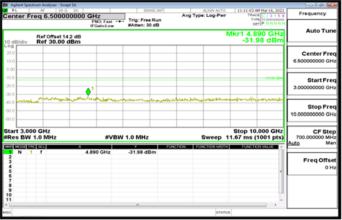
Band5_20MHz_DFT_BPSK_1_1_HighCH167800_HighCH167800





Band5_20MHz_DFT_BPSK_1_1_LowCH166800_LowCH166800

Band5_20MHz_DFT_BPSK_1_1_MidCH167300_MidCH167300



Band5_20MHz_DFT_BPSK_1_1_HighCH167800_HighCH167800



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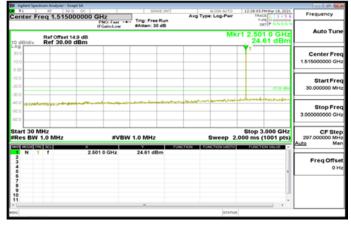
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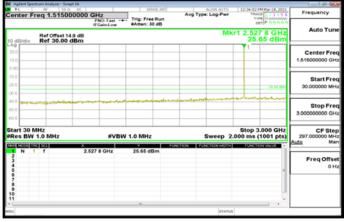


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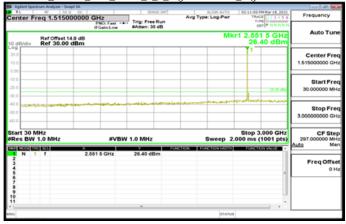
Band7_20MHz_DFT_BPSK_1_1_LowCH502000_LowCH502000



Band7_20MHz_DFT_BPSK_1_1_MidCH507000_MidCH507000



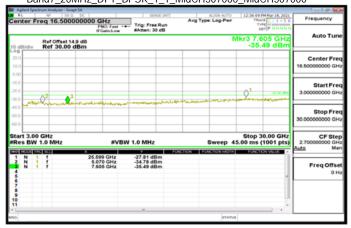
Band7_20MHz_DFT_BPSK_1_1_HighCH512000_HighCH512000



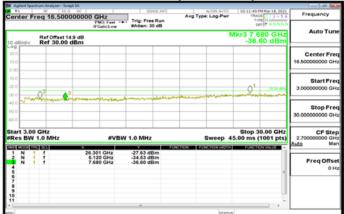
Auto Tu Ref Offset 14.9 dB Ref 30.00 dBm 3 7.530 GH -34.97 dB Center Fre Start Fre 01 Stop Fre 3.00 GHz Stop 30.00 G 0 ms (1001 p CF Step 1.0 MH 26.409 GHz 5.020 GHz -27.27 dBm -34.72 dBm NNN 11 Freq Offs

Band7_20MHz_DFT_BPSK_1_1_LowCH502000_LowCH502000





Band7_20MHz_DFT_BPSK_1_1_HighCH512000_HighCH512000



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