

Keysight Spectrum Analyzer - Occup							
LXI RL RF 50Ω	AC CORREC	SENSE:INT Center Freq: 2.59300	ALIGN AUTO	10:36:46 At Radio Std:	MSep 11, 2024	Trace	/Detector
	••	Trig: Free Run	Avg Hold: 100/100				
	#IFGain:Low	#Atten: 36 dB		Radio Dev	ice: BTS		
10 dB/div Ref 40.00 d	dBm						
30.0							
20.0	List and	Marily and south and a grad a south south				С	lear Write
10.0		Lander and a state of the last of the second se					
0.00							
-10.0							Average
-20.0	markenan		Muchalyon	when with the providence of th	upple them		/
-20.0 -30.0 -30.0	وهي کک						
-40.0							Max Hold
-50.0							-
Center 2.5930 GHz				Span 2	50.0 MHz		
Res BW 2.4 MHz		#VBW 8 MH	z		ep 1ms		Min Hold
		Tetel D	22				
Occupied Bandw		Total P	ower 33.	1 dBm			
	98.117 MI	Hz					Detector
Transmit Freq Erro	or -204.12 k		BW Power 99	9.00 %		Auto	Peak▶ Man
						Auto	man
x dB Bandwidth	103.5 M	lHz xdB	-26.	.00 dB			
MSG			In STATU	s			

Plot 7-89. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant B)



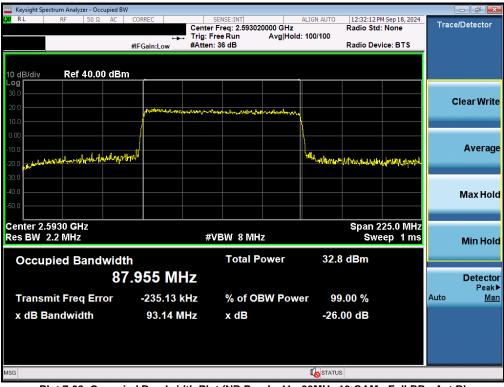
Plot 7-90. Occupied Bandwidth Plot (NR Band n41 - 90MHz π/2 BPSK - Full RB - Ant B)

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🔤 Keysight Spectrum Analyzer - Occupied BW									
XX RL RF 50Ω AC	CORREC		NSE:INT reg: 2.59302	0000 GHz	ALIGN AUTO	12:32:04 P	M Sep 18, 2024	Trac	e/Detector
		, Trig: Free	Run		:>100/100				
	#IFGain:Low	#Atten: 3	6 dB			Radio Dev	ice: BTS		
10 dB/div Ref 40.00 dBm									
Log 30.0									
20.0								(Clear Write
10.0	pland blancer and	มาวมัน-พ/ไม่มีเขา _{ใน} การบาทนามี <mark>ไ</mark> ม่ม	ghave a subserved and a subserv	service many man					
0.00	1								
-10.0									Average
الملاسط الاستعاد المتعاد المتعاد المتعاد والمتعاد والم	har .				man de -	a substation of the	و مادار الدور ا		Average
					In Alberta	for the first state of the stat	Are served and the loss		
-30.0									
-40.0									Max Hold
-50.0									
Center 2.5930 GHz						Span 2	25.0 MHz		
Res BW 2.2 MHz		#VE	SW 8 MH	z			ep 1 ms		Min Hold
									Minitiona
Occupied Bandwidth			Total P	ower	32.6	i dBm			
87	.927 MI	Hz							Detector
			0/ - F O		00	00.0/		Auto	Peak►
Transmit Freq Error	-163.70		% of OF	BW Pow	er 99	.00 %		Auto	Man
x dB Bandwidth	92.75 N	٨Hz	x dB		-26.	00 dB			
MSG					I o STATUS	3			

Plot 7-91. Occupied Bandwidth Plot (NR Band n41 - 90MHz QPSK - Full RB - Ant B)



Plot 7-92. Occupied Bandwidth Plot (NR Band n41 - 90MHz 16-QAM - Full RB - Ant B)

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Keysight Spectrum Analyzer - Occupie	ed BW				
(X) RL RF 50Ω A	AC CORREC	SENSE:INT Center Freg: 2.593020000 GHz	ALIGN AUTO 01:48:02 P Radio Std	M Sep 18, 2024	Trace/Detector
	1	Trig: Free Run Avg Hol	d:>100/100		
	#IFGain:Low #	tAtten: 36 dB	Radio Dev	vice: BTS	
10 dB/div Ref 40.00 c	dBm				
Log 30.0					
20.0					Clear Write
10.0	August Specification and the	ะหม่าง ¹			
0.00					
					Average
-10.0					Average
-20.0 Ander the Marine of the state	hhay May 10		Walk manustra	matronigense	
-30.0					
-40.0					Max Hold
-50.0					
Center 2.5930 GHz			Span 2	200.0 MHz	
Res BW 1.8 MHz		#VBW 6 MHz		eep 1 ms	Min Hold
					Kiirriota
Occupied Bandw		Total Power	34.6 dBm		
	77.348 MHz	2			Detector
Tanana it Fanan Fanan	400 44 611		00.00.0/		Peak▶ Auto Man
Transmit Freq Error					Auto <u>Man</u>
x dB Bandwidth	81.76 MH	z xdB	-26.00 dB		
MSG			STATUS		

Plot 7-93. Occupied Bandwidth Plot (NR Band n41 - 80MHz π/2 BPSK - Full RB - Ant B)



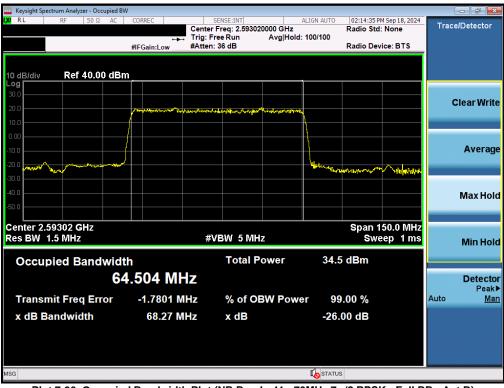
Plot 7-94. Occupied Bandwidth Plot (NR Band n41 - 80MHz QPSK - Full RB - Ant B)

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🔤 Keysight Spectrum Analyzer - Occupi	ied BW						
LX/ RL RF 50Ω	AC CORREC	SENSE:INT Center Freq: 2.5930	ALIGN AUT 20000 GHz Avg Hold: 100/100	Radio Std	M Sep 18, 2024 : None	Trac	e/Detector
	↔ #IFGain:Low	#Atten: 36 dB	Avginola. 100/100	Radio Dev	vice: BTS		
				_			
10 dB/div Ref 40.00 d	dBm						
30.0							
20.0	Recently and the	man all instances where the				C	Clear Write
10.0		(*********มีสี่เราสมให้สำรักสร้างสร้างกล่องสาวกร้าง	all the second second second				
0.00							
-10.0							Average
-20.0 mound of the of the particular	When when we want the second sec		the wellow	und windowed (44	Madelalenaria		
-30.0							
-40.0							Max Hold
-50.0							Muxinora
				0			
Center 2.5930 GHz Res BW 1.8 MHz		#VBW 6 MI	17		ep 1 ms		
							Min Hold
Occupied Bandw	ridth	Total F	Power 32	2.6 dBm			
	77.651 M	Hz					Detector
			BW Power	99.00 %		Auto	Peak▶ Man
Transmit Freq Error						Auto	IVIAII
x dB Bandwidth	82.23 N	MHz xdB	-2	6.00 dB			
MSG			I STA	TUS			

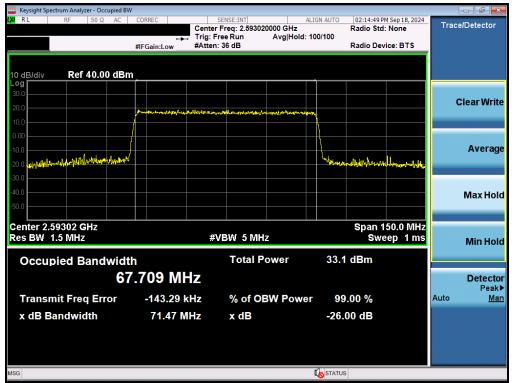
Plot 7-95. Occupied Bandwidth Plot (NR Band n41 - 80MHz 16-QAM - Full RB - Ant B)



Plot 7-96. Occupied Bandwidth Plot (NR Band n41 - 70MHz 7π/2 BPSK - Full RB - Ant B)

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Plot 7-97. Occupied Bandwidth Plot (NR Band n41 - 70MHz QPSK - Full RB - Ant B)



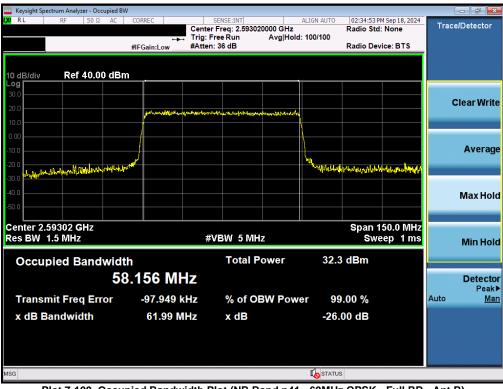
Plot 7-98. Occupied Bandwidth Plot (NR Band n41 - 70MHz 16-QAM - Full RB - Ant B)

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Keysight Spectrum Analyzer - Occupied BV	V				
00 RL RF 50Ω AC	+→ Trig: F #IFGain:Low #Atter	SENSE:INT r Freq: 2.593020000 GHz Free Run Avg Hol n: 36 dB	Radio St d: 100/100	PM Sep 18, 2024 cd: None evice: BTS	Trace/Detector
20.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	II	the group by the start of a start	• •		Clear Write
0.00 -10.0 -20.0	•••••		have not some here	مى والسعواف المراجع	Average
-40.0					Max Hold
Center 2.59302 GHz Res BW 1.5 MHz Occupied Bandwidt		VBW 5 MHz Total Power		150.0 MHz /eep 1 ms	Min Hold
	3.125 MHz				Detector Peak▶
Transmit Freq Error x dB Bandwidth	-87.435 kHz 61.48 MHz	% of OBW Pov x dB	ver 99.00 % -26.00 dB		Auto <u>Man</u>
MSG			STATUS		

Plot 7-99. Occupied Bandwidth Plot (NR Band n41 - 60MHz π/2 BPSK - Full RB - Ant B)



Plot 7-100. Occupied Bandwidth Plot (NR Band n41 - 60MHz QPSK - Full RB - Ant B)

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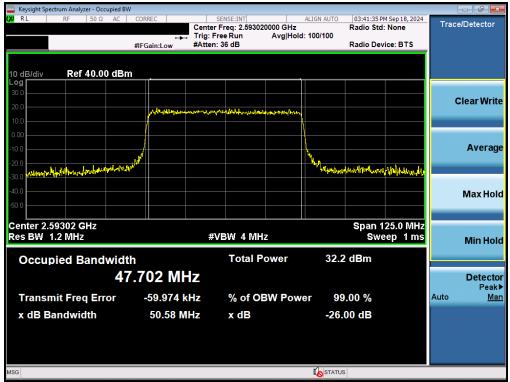
Plot 7-101. Occupied Bandwidth Plot (NR Band n41 - 60MHz 16-QAM - Full RB - Ant B)



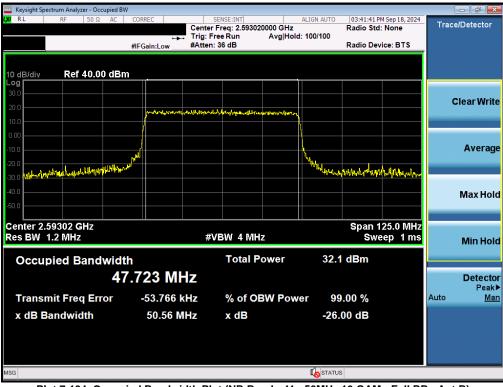
Plot 7-102. Occupied Bandwidth Plot (NR Band n41 - 50MHz π/2 BPSK - Full RB - Ant B)

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Plot 7-103. Occupied Bandwidth Plot (NR Band n41 - 50MHz QPSK - Full RB - Ant B)



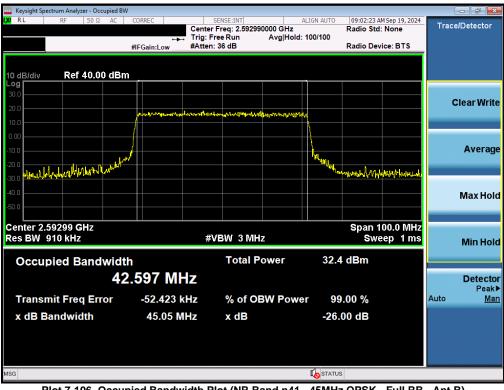
Plot 7-104. Occupied Bandwidth Plot (NR Band n41 - 50MHz 16-QAM - Full RB - Ant B)

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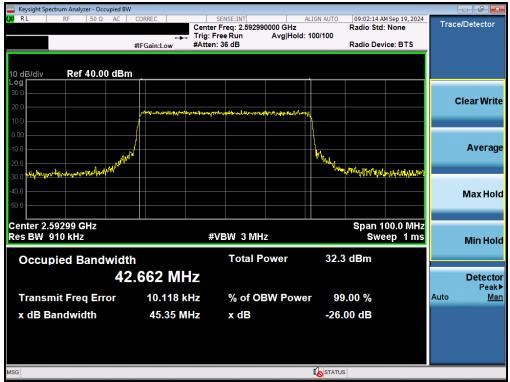
Plot 7-105. Occupied Bandwidth Plot (NR Band n41 - 45MHz π/2 BPSK - Full RB - Ant B)



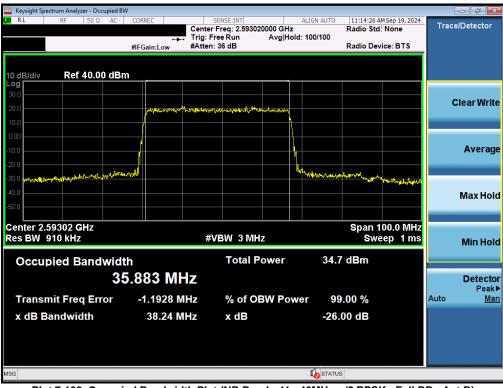
Plot 7-106. Occupied Bandwidth Plot (NR Band n41 - 45MHz QPSK - Full RB - Ant B)

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Plot 7-107. Occupied Bandwidth Plot (NR Band n41 - 45MHz 16-QAM - Full RB - Ant B)



Plot 7-108. Occupied Bandwidth Plot (NR Band n41 - 40MHz π/2 BPSK - Full RB - Ant B)

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Plot 7-109. Occupied Bandwidth Plot (NR Band n41 - 40MHz QPSK - Full RB - Ant B)



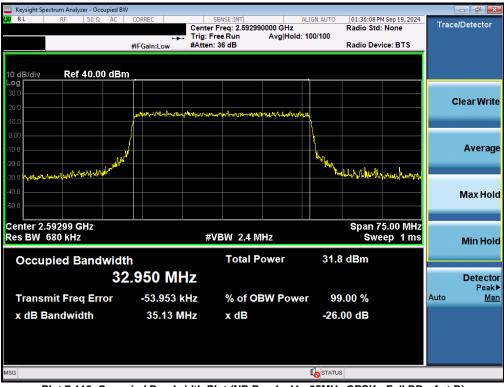
Plot 7-110. Occupied Bandwidth Plot (NR Band n41 - 40MHz 16-QAM - Full RB - Ant B)

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LXIRL RF 50Ω AC		SENSE:INT er Freq: 2.592990000 GHz	Radio St	PM Sep 19, 2024 td: None	Trace/Detector
		FreeRun Avg Holo en:36 dB	d: 100/100 Radio D	evice: BTS	
10 dB/div Ref 40.00 dBr	n				
30.0					
20.0		magashingsprontenter			Clear Write
10.0					
0.00					Average
-10.0					Average
-20.0 -30.0 -30.0			hourson	A gardinger and	
-40.0					Max Hold
-50.0					
Center 2.59299 GHz			Span	75.00 MHz	
Res BW 680 kHz		#VBW 2.4 MHz	Sv	veep 1 ms	Min Hold
Occupied Bandwidt	h	Total Power	33.8 dBm		
	2.313 MHz				Detector
	-381.31 kHz	% of OBW Pow	er 99.00 %		Peak► Auto Man
Transmit Freq Error					
x dB Bandwidth	34.48 MHz	x dB	-26.00 dB		
MSG			STATUS		

Plot 7-111. Occupied Bandwidth Plot (NR Band n41 - 35MHz π/2 BPSK - Full RB - Ant B)



Plot 7-112. Occupied Bandwidth Plot (NR Band n41 - 35MHz QPSK - Full RB - Ant B)

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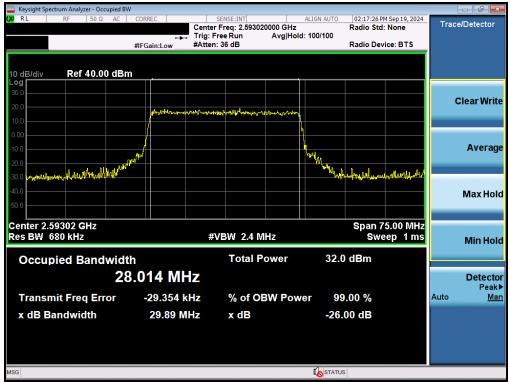
Plot 7-113. Occupied Bandwidth Plot (NR Band n41 - 35MHz 16-QAM - Full RB - Ant B)



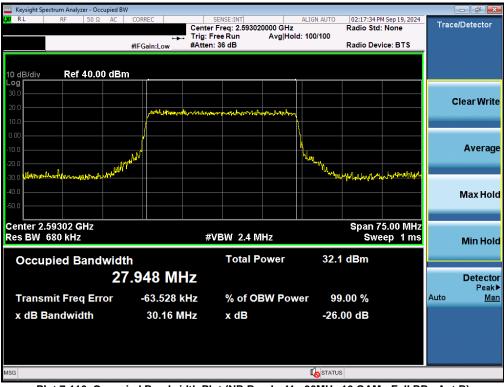
Plot 7-114. Occupied Bandwidth Plot (NR Band n41 - 30MHz π/2 BPSK - Full RB - Ant B)

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Plot 7-115. Occupied Bandwidth Plot (NR Band n41 - 30MHz QPSK - Full RB - Ant B)



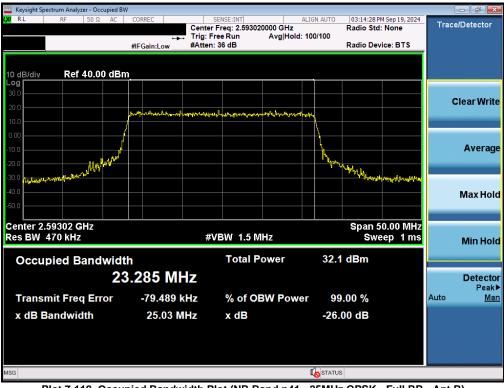
Plot 7-116. Occupied Bandwidth Plot (NR Band n41 - 30MHz 16-QAM - Full RB - Ant B)

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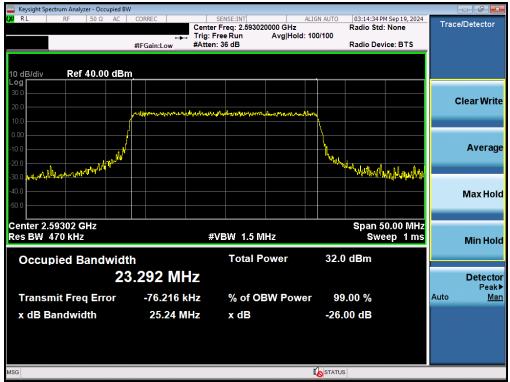
Plot 7-117. Occupied Bandwidth Plot (NR Band n41 - 25MHz π/2 BPSK - Full RB - Ant B)



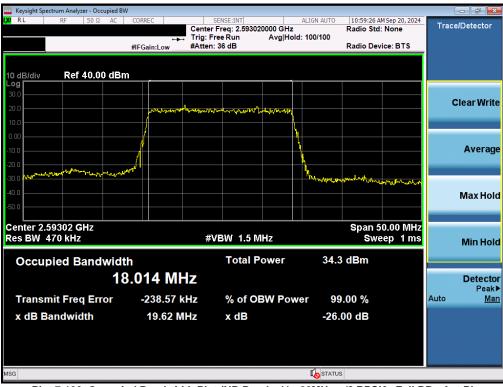
Plot 7-118. Occupied Bandwidth Plot (NR Band n41 - 25MHz QPSK - Full RB - Ant B)

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Plot 7-119. Occupied Bandwidth Plot (NR Band n41 - 25MHz 16-QAM - Full RB - Ant B)



Plot 7-120. Occupied Bandwidth Plot (NR Band n41 - 20MHz π/2 BPSK - Full RB - Ant B)

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Plot 7-121. Occupied Bandwidth Plot (NR Band n41 - 20MHz QPSK - Full RB - Ant B)



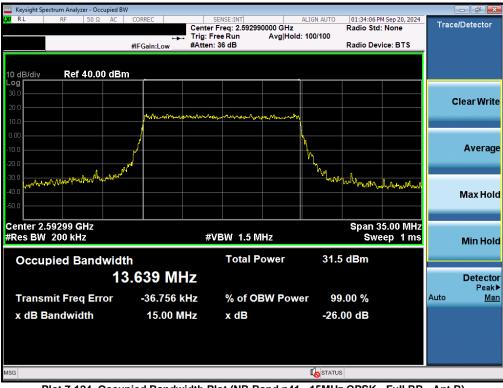
Plot 7-122. Occupied Bandwidth Plot (NR Band n41 - 20MHz 16-QAM - Full RB - Ant B)

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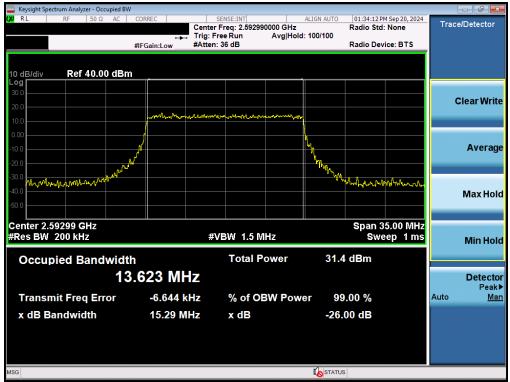
Plot 7-123. Occupied Bandwidth Plot (NR Band n41 - 15MHz π/2 BPSK - Full RB - Ant B)



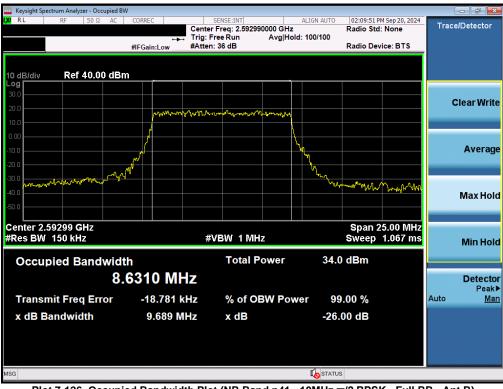
Plot 7-124. Occupied Bandwidth Plot (NR Band n41 - 15MHz QPSK - Full RB - Ant B)

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Plot 7-125. Occupied Bandwidth Plot (NR Band n41 - 15MHz 16-QAM - Full RB - Ant B)



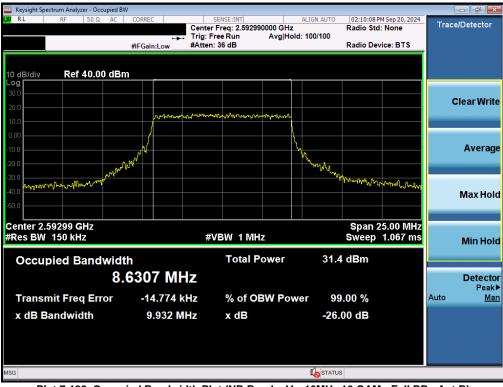
Plot 7-126. Occupied Bandwidth Plot (NR Band n41 - 10MHz π/2 BPSK - Full RB - Ant B)

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Plot 7-127. Occupied Bandwidth Plot (NR Band n41 - 10MHz QPSK - Full RB - Ant B)



Plot 7-128. Occupied Bandwidth Plot (NR Band n41 - 10MHz 16-QAM - Full RB - Ant B)

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Mode	Bandwidth	Modulation	OBW [MHz]
		π/2 BPSK	97.07
NR-n41PC2	100MHz	QPSK	98.29
		16QAM	98.27

Table 7-8. Occupied Bandwidth Test Results - NR - Ant B - Default

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n41PC2		π/2 BPSK	96.79
	100MHz	QPSK	97.75
		16QAM	97.72

Table 7-9. Occupied Bandwidth Test Results - NR - Ant F - Switching

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n41PC2 100		π/2 BPSK	96.94
	100MHz	QPSK	98.11
		16QAM	98.04

Table 7-10. Occupied Bandwidth Test Results - NR - Ant E - Default

Bandwidth	Modulation	OBW [MHz]
	π/2 BPSK	96.64
100MHz	QPSK	97.81
	16QAM	97.79
	100MHz	100MHz

Table 7-11. Occupied Bandwidth Test Results – NR – Ant D – Switching

Mode	Bandwidth	Modulation	OBW [MHz]	
		π/2 BPSK	97.09	
NR-n41PC2	100MHz	QPSK	98.07	
		16QAM	98.35	
Table 7.12 Occurried Bandwidth Toot Baculto ND Ant D Default				

Table 7-12. Occupied Bandwidth Test Results - NR - Ant D - Default

Mode	Bandwidth	Modulation	OBW [MHz]
	100MHz	π/2 BPSK	96.86
NR-n41PC2		QPSK	97.80
		16QAM	97.91

Table 7-13. Occupied Bandwidth Test Results – NR – Ant E – Switching

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NR Band n41(PC2) – Ant B – Default



Plot 7-129. Occupied Bandwidth Plot (NR Band n41 - 100MHz π/2 BPSK - Full RB - Ant B)



Plot 7-130. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant B)

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Keysight Spectrum Analyzer - Occupied B	W				
LX/ R L RF 50 Ω AC		SENSE:INT r Freq: 2.593000000 GHz	ALIGN AUTO 02:55:17 P Radio Std	M Sep 06, 2024	Trace/Detector
	+++ Trig: F	ree Run Avg Hold	I: 100/100		
	#IFGain:Low #Atten	1: 36 dB	Radio Dev	/ice: BTS	
10 dB/div Ref 40.00 dB	m				
30.0					
20.0					Clear Write
10.0	Mulauron manuallant	Myre wlanderie April Instrumies and agen			
0.00					
-10.0					Average
-20.0 1	ayla'liri		March March March March of	Willowhow	
-30.0					
-40.0					Max Hold
-50.0					ινιάχ ποιά
Center 2.5930 GHz				250.0 MHz	
Res BW 2.4 MHz	#	VBW 8 MHz	SW	eep 1 ms	Min Hold
Occupied Bandwid	th	Total Power	29.6 dBm		
	8.273 MHz				Detector
					Detector Peak▶
Transmit Freq Error	-243.99 kHz	% of OBW Pow	er 99.00 %		Auto <u>Man</u>
x dB Bandwidth	103.6 MHz	x dB	-26.00 dB		
MSG			STATUS		
			-0		

Plot 7-131. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant B)

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NR Band n41(PC2) – Ant F – Switching



Plot 7-132. Occupied Bandwidth Plot (NR Band n41 - 100MHz π/2 BPSK - Full RB - Ant F)



Plot 7-133. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant F)

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🧫 Keysight Spectrum Analyzer - Occupied BW						ð X
LXI RL RF 50Ω AC		SENSE:INT r Freq: 2.593000000 GHz		4 AM Sep 11, 2024 td: None	Trace/Dete	ector
	Trig: F	Free Run Avg Hold	d: 100/100			
	#IFGain:Low #Atten	n: 36 dB	Radio D	evice: BTS		
10 dB/div Ref 40.00 dBm						
Log 30.0						
20.0					Clear	Write
10.0	applican soid proveres	angerta the top had a many of the party				
0.00						
-10.0					Δν	erage
					~	crage
-20.0			Warph and prover the track of	h for any particular		
-30.0						
-40.0					Max	x Hold
-50.0						_
Center 2.5930 GHz			Span	250.0 MHz		
Res BW 2.4 MHz	#	VBW 8 MHz		weep 1ms	Mir	n Hold
		T-t-l D-mar	20 2 d D			
Occupied Bandwidth		Total Power	28.3 dBm			
97	.717 MHz					tector
Transmit Freq Error	-137.39 kHz	% of OBW Pow	ver 99.00 %		Auto	Peak▶ <u>Man</u>
x dB Bandwidth	103.4 MHz	x dB	-26.00 dB			
MSG			STATUS			
mod						

Plot 7-134. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant F)

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NR Band n41(PC2) – Ant E – Default



Plot 7-135. Occupied Bandwidth Plot (NR Band n41 - 100MHz π/2 BPSK - Full RB - Ant E)



Plot 7-136. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant E)

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Keysight Spectrum Analyzer - Occupied BW									
LX/ RL RF 50 Ω AC		Center Freq: Trig: Free Ru	2.593000	0000 GHz Avg Hold	ALIGN AUTO	Radio Std:	None	Trac	e/Detector
	#IFGain:Low	#Atten: 36 dE				Radio Dev	ice: BTS		
10 dB/div Ref 40.00 dBm									
Log 30.0									
20.0									Clear Write
10.0	no bearing to the	hand the second second	herebytender	contract of the states					
0.00					1				Average
-10.0	19 ¹				an marchall	Mulmin			Average
-20.0 Wrather and							habely have been a		
-30.0									
-40.0									Max Hold
-50.0									
Center 2.5930 GHz						Snan 2	50.0 MHz		
Res BW 2.4 MHz		#VBW	8 MHz	z			ep 1 ms		Min Hold
									Minifiold
Occupied Bandwidth			otal Po	ower	30.7	dBm			
98.	040 MH	z							Detector
									Peak►
Transmit Freq Error	-276.95 k	Hz %	of OE	W Pow	er 99	.00 %		Auto	<u>Man</u>
x dB Bandwidth	104.0 M	Hz x	dB		-26.	00 dB			
MSG					I STATUS				

Plot 7-137. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant E)

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NR Band n41(PC2) – Ant D – Switching



Plot 7-138. Occupied Bandwidth Plot (NR Band n41 - 100MHz π/2 BPSK - Full RB - Ant D)



Plot 7-139. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant D)

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Keysight Spectrum Analyzer - Occupied B\	٧					
LXI RL RF 50Ω AC	CORREC	SENSE:INT r Freq: 2.593000000 GHz	ALIGN AUTO	01:10:48 Pr Radio Std:	4 Sep 11, 2024	Trace/Detector
		Free Run Avg Hold	: 100/100	Radio Std:	None	
		1: 36 dB		Radio Dev	ice: BTS	
10 dB/div Ref 40.00 dBr	ń					
Log						
30.0						Clear Write
20.0	Marian Maria and Maria	antide of the lateral of the second				Clear write
10.0		and some of the second day with the second day of the				
0.00						
-10.0						Average
وأرفعته فالسرية الطامي ومعتقله	Mart		Internerolly	Balath I		Average
-20.0			and south a rate	andin shirt for the faith	whentyUplessel	
-30.0						
-40.0						Max Hold
-50.0						
Center 2.5930 GHz					50.0 MHz	
Res BW 2.4 MHz	#	VBW 8 MHz		SWe	ep 1 ms	Min Hold
Occupied Bandwidt	h	Total Power	32 () dBm		
			52.0			
97	7.786 MHz					Detector
Tropomit Frog Free	240.25 kH=		~ 00	00.0/		Peak▶ Auto Man
Transmit Freq Error	-340.35 kHz	% of OBW Pow	er 99	.00 %		Auto <u>Man</u>
x dB Bandwidth	103.3 MHz	x dB	-26.	00 dB		
			1			
MSG						

Plot 7-140. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant D)

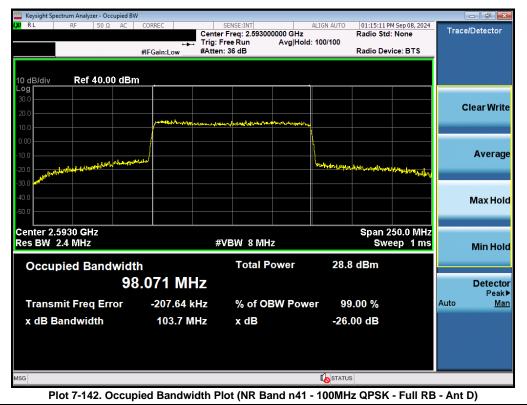
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NR Band n41(PC2) - Ant D - Default



Plot 7-141. Occupied Bandwidth Plot (NR Band n41 - 100MHz π/2 BPSK - Full RB - Ant D)



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Keysight Spectrum Analyzer - Occupied BW						
XIRL RF 50Ω AC C		SENSE:INT Freq: 2.593000000 GHz	ALIGN AUTO	01:15:17 PM Radio Std:	1 Sep 08, 2024	Trace/Detector
#	🛶 Trig: F		old: 100/100	Radio Devi		
10 dB/div Ref 40.00 dBm						
20.0						Clear Writ
10.0	montestan	๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛				
0.00 10.0 20.0 <u>n. utraviteti hilititutita</u>			When the second	-		Averag
20.0 30.0 40.0					hyndette Ten Sulphy	
-50.0						Max Hol
Center 2.5930 GHz Res BW 2.4 MHz	#1	VBW 8 MHz			50.0 MHz ep 1 ms	Min Ho
Occupied Bandwidth		Total Power	28.5	5 dBm		
98.3	352 MHz					Detecto Peak
Transmit Freq Error	-108.70 kHz	% of OBW Po	wer 99	.00 %		Auto <u>Ma</u>
x dB Bandwidth	103.7 MHz	x dB	-26.	00 dB		
SG				6		

Plot 7-143. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant D)

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NR Band n41(PC2) – Ant E – Switching



Plot 7-144. Occupied Bandwidth Plot (NR Band n41 - 100MHz π/2 BPSK - Full RB - Ant E)



Plot 7-145. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant E)

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Keysight Spectrum Analyzer - Occupied	BW						
LXI RL RF 50Ω AC		SENSE:INT Freg: 2.593000000 GHz		01:55:53 PM Radio Std:	Sep 11, 2024	Trace/[Detector
	Trig: Fi	ree Run Avg Hold	I: 100/100				
	#IFGain:Low #Atten:	36 dB	F	Radio Devi	ce: BTS		
10 dB/div Ref 40.00 dE	3m						
30.0							
20.0						Cl	ear Write
	addeeding and a source of solution						
10.0	and a second	- Coloring to the Martin Charles Stranger					
0.00							_
-10.0							Average
-20.0	ing-type)		how when the stand the stan	Millionardina	Ma human		
-30.0 present whether a second							
-40.0						F	/lax Hold
-50.0							
				A A			
Center 2.5930 GHz Res BW 2.4 MHz	#\	/BW 8 MHz			50.0 MHz ep 1 ms		
103 DW 2.4 WI12	77			0440	ep ma		Min Hold
Occupied Bandwid	dth	Total Power	26.1 0	lBm			
	7.907 MHz						Detector
							Peak ►
Transmit Freq Error	-227.89 kHz	% of OBW Pow	er 99.0	00 %		Auto	<u>Man</u>
x dB Bandwidth	103.2 MHz	x dB	-26.00) dB			
	103.2 11112	X UB	-20.00	, ab			
			_				
MSG			I STATUS				

Plot 7-146. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant E)

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7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

For Band 30, the minimum permissible attenuation level of any spurious emission <2288MHz and >2365MHz is 70 + 10 log10(P[Watts]).

For Band 7 and 41, the minimum permissible attenuation level of any spurious emission is $55 + 10\log_{10}(P_{[Watts]})$.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-3. Test Instrument & Measurement Setup

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Test Notes

- 1. Per Part 27, RSS-195 and RSS-199, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
- 2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 3. Per ANSI C63.26-2015, MIMO compliance was addressed by adding 10log(2) = 3dB to the output of each antenna. A visual inspection of the plots for each antenna shows that the emissions are still compliant even after adding 3dB.

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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
	20MHz	Low	30.0 - 2475.0	-37.60	-25	-12.60
		Low	2690.0 - 15000.0	-35.99	-25	-10.99
LTE-B41PC2		Low	15000.0 - 27000.0	-45.84	-25	-20.84
		Mid	30.0 - 2496.0	-37.73	-25	-12.73
		Mid	2690.0 - 15000.0	-34.36	-25	-9.36
		Mid	15000.0 - 27000.0	-45.36	-25	-20.36
		High	30.0 - 2500.0	-37.20	-25	-12.20
		High	2690.0 - 15000.0	-36.15	-25	-11.15
		High	15000.0 - 27000.0	-45.55	-25	-20.55

Table 7-14. Conducted Emission Test Results – LTE – Ant B

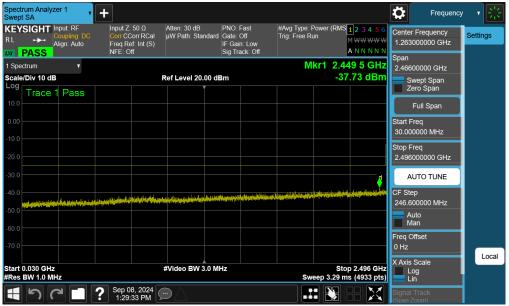
Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
	20MHz	Low	30.0 - 2475.0	-38.28	-25.0	-13.28
		Low	2690.0 - 15000.0	-34.99	-25.0	-9.99
LTE-B41PC2		Low	15000.0 - 27000.0	-45.86	-25	-20.86
		Mid	30.0 - 2500.0	-37.18	-25	-12.18
		Mid	2690.0 - 15000.0	-36.42	-25	-11.42
		Mid	15000.0 - 27000.0	-45.08	-25	-20.08
		High	30.0 - 2500.0	-38.63	-25	-13.63
		High	2690.0 - 15000.0	-35.48	-25	-10.48
		High	15000.0 - 27000.0	-45.49	-25	-20.49

Table 7-15. Conducted Emission Test Results - LTE - Ant F

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LTE Band 41(PC2) – Ant B



Plot 7-147. Conducted Spurious Plot (LTE Band 41(PC2)- 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

Spectrum Analyzer 1	+				Frequency	- * 器
KEYSIGHT Input: RF R L Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	#Atten: 28 dB µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 (Trig: Free Run A N N N N	8.845000000 GHz	Settings
1 Spectrum v Scale/Div 10 dB		Ref Level 20.00 dE	-	Mkr1 14.048 5 GH -34.36 dBn	Swept Span	
Log 10.0 Trace 1 Pass					Zero Span Full Span	
-10.0					Start Freq 2.690000000 GHz	
-20.0					Stop Freq 15.00000000 GHz	
			ولي والمعاد والتي العرب التواسية من إلى محمد المعاد من العربي العربي المراجع المعاد ويوني		AUTO TUNE CF Step 1.231000000 GHz	
-50.0					Auto Man	
-70.0					Freq Offset 0 Hz X Axis Scale	Local
Start 2.690 GHz #Res BW 1.0 MHz	0.000	#Video BW 3.0 Mł	Hz	Stop 15.000 GH Sweep ~22.8 ms (24621 pts		

Plot 7-148. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

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Plot 7-149. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT					
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LTE Band 41(PC2) – Ant F

Spectr Swept	um Analyz SA	er 1 🗸	+					Frequence	y v
RL		nput: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCa Freq Ref: Int (S NFE: Off) IF Ga	Fast Off ain: Low rack: Off	#Avg Type: Powe Trig: Free Run	r (RMS <mark>1</mark> 23456 M WWWW ANNNN	Center Frequency 1.252500000 GHz	Settings
1 Spec				Ref Level 20.00 dBm		Mkr1	2.351 0 GHz -38.28 dBm	Span 2.44500000 GHz	
Log		1 Pass					-00.20 0.511	Swept Span Zero Span	
10.0 -								Full Span	
0.00								Start Freq 30.000000 MHz	
-20.0								Stop Freq 2.475000000 GHz	1
-30.0							1	AUTO TUNE	
-40.0			ul la constanti se c				and the second	CF Step 244.500000 MHz	
-50.0 -60.0								Auto Man	
-70.0								Freq Offset 0 Hz	
).030 GHz BW 1.0 Mi			#Video BW 3.0 MHz		Sweep	Stop 2.475 GHz 3.26 ms (4891 pts)	X Axis Scale Log Lin	
\blacksquare	5		Sep 08, 2024 3:35:17 PM	$\bigcirc \triangle$				Signal Track (Span Zoom)	

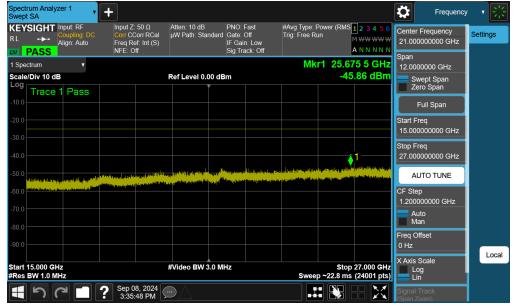
Plot 7-150. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

Spect Swept	rum Analy t SA	zer 1	+									Frequency	- * 亲
RL	SIGHT ++- PASS	Input: RF Coupling: DC Align: Auto		orr RCal f: Int (S)	#Atten: 26 dB µW Path: Sta	ndard Gate: IF Gai	Off	#Avg Type: F Trig: Free Ru	IU	123456 M WWWW ANNNNN	8.8450	Frequency 000000 GHz	Settings
1 Spe		T B			Ref Level 20.	00 dBm		Mk		57 5 GHz .99 dBm	L	00000 GHz vept Span	
Log	Trace	1 Pass									Ze	ero Span	
0.00											Start F		
-10.0											Stop Fi		
-20.0 -30.0										1-		DOOOOOO GHZ	
-40.0	المربعة المقاصير ال				مريدا براد مريد آمريو مريدا براد مريد ايريو المريو	الموجد المرجع المرجع الأحجام المرجع ا		and the supplicity of the state	- Alexandra and a second state	Ante attende filse severale. Trapalation and the severale	CF Ste	p 000000 GHz	
-50.0	أندر بينا أفاري _{عليا}										AL Ma	ıto	
-70.0											Freq O 0 Hz	ffset	
	2.690 GH BW 1.0 N				#Video BW 3	3.0 MHz		Sweet		15.000 GHz (24621 pts)	X Axis Lo Li	og 🛛	Local
	5		? Sep 0	8, 2024 34 PM							Signal (Span Z	Track	

Plot 7-151. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 – Low Channel - Ant F)

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Plot 7-152. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 2288.0	-42.13	-25	-17.13
		Low	2365.0 - 15000.0	-43.21	-25	-18.21
		Low	15000.0 - 27000.0	-46.05	-25	-21.05
		Mid	30.0 - 2288.0	-42.95	-25	-17.95
LTE-B41PC3	20MHz	Mid	2570.0 - 15000.0	-43.83	-25	-18.83
		Mid	15000.0 - 27000.0	-46.56	-25	-21.56
		High	30.0 - 2288.0	-43.06	-25	-18.06
		High	2570.0 - 15000.0	-44.17	-25	-19.17
		High	15000.0 - 27000.0	-46.43	-25	-21.43

Table 7-16. Conducted Emission Test Results – LTE – Ant B

Mode	Bandwidth	Channel	Range	Level	Limit	Margin
WICCE	Danuwidth	Channer	[MHz]	[dBm]	[dBm]	[dB]
		Low	30.0 - 2288.0	-43.12	-25	-18.12
		Low	2365.0 - 15000.0	-43.84	-25	-18.83
	20MHz	Low	15000.0 - 27000.0	-46.59	-25	-21.58
		Mid	30.0 - 2288.0	-42.76	-25	-17.75
LTE-B41PC3		Mid	2570.0 - 15000.0	-43.72	-25	-18.72
		Mid	15000.0 - 27000.0	-46.30	-25	-21.30
		High	30.0 - 2288.0	-41.90	-25	-16.90
		High	2570.0 - 15000.0	-43.55	-25	-18.55
		High	15000.0 - 27000.0	-47.55	-25	-22.55

Table 7-17. Conducted Emission Test Results – LTE – Ant F

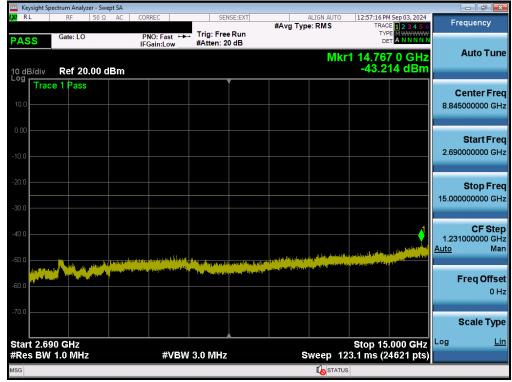
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	st Dates: EUT Type:					
1M2408260069-07.A3L	09/03/2024 - 11/05/2024	09/03/2024 - 11/05/2024 Portable Handset					
© 2024 ELEMENT	-		V«VerNo» «VerDate»				



LTE Band 41(PC3) – Ant B

Keysight Spectrum Analyzer - Swept SA									
LXI RL RF 50Ω AC	CORREC	SEN	SE:EXT	#Avg Typ	ALIGN AUTO e: RMS		1 Sep 03, 2024 E 1 2 3 4 5 6	Fr	equency
Gate: LO	PNO: Fast 🔸	. Trig: Free Atten: 30				TYP			
	IFGain:Low	Atten: 30	ub		ML	r1 2.47(Auto Tune
10 dB/div Ref 20.00 dBm						-42.1	30 dBm		
Log Trace 1 Pass									
10.0									Center Freq
10.0								1.25	2500000 GHz
0.00									
									Start Freq
-10.0								30	.000000 MHz
-20.0									Stop Freq
-30.0								2.47	5000000 GHz
-38.8									
-40.0							1		CF Step
			ر مر مامر ، مر استان الروم	ومقالية بالمراسطية وال	فالطوا والأور وواولوا			Auto	.500000 MHz Man
-50.0	And the part of the part of the part of the		للمتعطية والمرجع وإلمالك	and the second second second	a a a sha na bi a sai bi a si				
									Freq Offset
-60.0									0 Hz
-70.0									
-70.0									Scale Type
								Log	
Start 0.030 GHz #Res BW 1.0 MHz	#\/B\A	/ 3.0 MHz			Sween 2	Stop 2. 4 45 ms (/	.475 GHz 4891 pts)	LUg	<u>Lin</u>
MSG						·`	1001 (00)		

Plot 7-153. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)



Plot 7-154. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager			
Test Report S/N:	Test Dates:	Test Dates: EUT Type:				
1M2408260069-07.A3L	09/03/2024 - 11/05/2024	09/03/2024 - 11/05/2024 Portable Handset				
© 2024 ELEMENT			V«VerNo» «VerDate»			





Plot 7-155. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

FCC ID: A3LSMS938B		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 106 of 186	
1M2408260069-07.A3L	09/03/2024 - 11/05/2024	Portable Handset		
© 2024 ELEMENT	•	•	V«VerNo» «VerDate»	



LTE Band 41(PC3) - Ant F

			Analyzer - Sv											
lxi ri		RF	50 \$	2 AC	CORREC		SEI	ISE:EXT	#Avg Typ	ALIGN AUTO		E 1 2 3 4 5 6	_ Fi	requency
PAS		Gate	LO			Fast 🔶	. Trig: Fre		40' BAUM	e. Kino	TYP			
PAS					IFGain	:Low	Atten: 30) dB						Auto Tune
		_								M	(r1 2.43	99 dBm		Auto Func
10 dE Log _l			20.00	dBm							-41.0	Ja ubiii		
	Trace	e 1 P	ass											Center Freq
10.0														3000000 GHz
0.00														Otert Free
													20	Start Freq 0.000000 MHz
-10.0													30	J.000000 IVIH2
-20.0														Stop Freq
20.0													2.49	6000000 GHz
-30.0														
-40.0												_ 1		CF Step
-40.0											المعالية فرويها فرار	and the local day	240 Auto	5.600000 MHz Man
-50.0	d at the format dat		- Laboration data	e part ditteri			فأذه والالتبح ويغروه				ter day and the set of the	والالتحلم وترمقتني	Auto	IVIAII
	and the loss		a fa fritika si tu	أند والأماريد والأمار										
-60.0														Freq Offset
														0 Hz
-70.0														
														Scale Type
Star	t 0.03	0 68	7				<u> </u>				Stop 2	496 GHz	Log	Lin
	s BW					#VBW	/ 3.0 MHz			Sweep 2	24.66 ms (4933 pts)		
MSG														

Plot 7-156. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)



Plot 7-157. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 107 of 186	
1M2408260069-07.A3L	09/03/2024 - 11/05/2024	Portable Handset		
© 2024 ELEMENT			V«VerNo» «VerDate»	



Spectrum Analyzer 1 Swept SA	+			Frequency	- 7 景
R L Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Atten: Corr CCorr RCal μW Pa Freq Ref: Int (S) NFE: Off	10 dB PNO: Fast th: Standard Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A N N N N N	Center Frequency 21.000000000 GHz	Settings
1 Spectrum v Scale/Div 10 dB		vel 0.00 dBm	Mkr1 26.193 5 GHz -47.55 dBm	12.000000000112	
Trace 1 Pass				Zero Span Full Span	
20.0				Start Freq 15.00000000 GHz	
40.0			1	Stop Freq 27.000000000 GHz	
	State of program in the second state of the se	ang ng Kanan ng pang talah tang pang ng kang ng pang ng kang ng pang ng pang ng pang ng pang ng pang ng pang ng Ng pang ng pang	na propio predmita de se la que de presenta de se parte de terre de la terre de la terre de la terre de terre La se a grande da terre de se de service de la terre de service	AUTO TUNE	
70.0				1.200000000 GHz	
80.0				Man Freq Offset 0 Hz	
Start 15.000 GHz	#Video	BW 3.0 MHz	Stop 27.000 GHz	X Axis Scale Log	Local
#Res BW 1.0 MHz	Oct 01, 2024	2	Sweep ~22.8 ms (24001 pts)	Signal Track	

Plot 7-158. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

FCC ID: A3LSMS938B		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dogo 109 of 196	
1M2408260069-07.A3L	09/03/2024 - 11/05/2024	Portable Handset	Page 108 of 186	
© 2024 ELEMENT	•	·	V«VerNo» «VerDate»	



Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 2470.0	-38.17	-25	-13.17
		Low	2690.0 - 15000.0	-38.55	-25	-13.55
		Low	15000.0 - 27000.0	-46.45	-25	-21.45
		Mid	30.0 - 2470.0	-38.04	-25	-13.04
NR-n41PC2	100MHz	Mid	2690.0 - 15000.0	-40.04	-25	-15.03
		Mid	15000.0 - 27000.0	-47.24	-25	-22.24
		High	30.0 - 2470.0	-38.13	-25	-13.13
		High	2690.0 - 15000.0	-39.72	-25	-14.72
		High	15000.0 - 27000.0	-46.79	-25	-21.79

Table 7-18. Conducted Emission Test Results - NR - Ant F

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 2470.0	-38.42	-25	-13.42
		Low	2690.0 - 15000.0	-38.34	-25	-13.34
		Low	15000.0 - 27000.0	-47.15	-25	-22.15
	100MHz	Mid	30.0 - 2470.0	-38.38	-25	-13.38
NR-n41PC2		Mid	2690.0 - 15000.0	-39.34	-25	-14.34
		Mid	15000.0 - 27000.0	-46.65	-25	-21.65
		High	30.0 - 2470.0	-37.21	-25	-12.21
		High	2690.0 - 15000.0	-40.06	-25	-15.06
		High	15000.0 - 27000.0	-46.98	-25	-21.98

Table 7-19. Conducted Emission Test Results - NR - Ant B

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	Dega 100 of 100			
1M2408260069-07.A3L	09/03/2024 - 11/05/2024	Portable Handset	Page 109 of 186		
© 2024 ELEMENT	•	•	V«VerNo» «VerDate»		



NR Band n41 – Ant F – Default

🔤 Keysight Spectrum Analyzer - Swept SA 🚽								
LX R L RF 50 Ω AC	CORREC		SE:INT	#Avg Type	ALIGN AUTO e: RMS	TRAC	E 1 2 3 4 5 6	Frequency
PASS	PNO: Fast ++ IFGain:Low	Atten: 30 o				DE		
10 dB/div Ref 20.00 dBm					M	kr1 2.443 -38.0	3 0 GHz 38 dBm	Auto Tun
10.0								Center Fre 1.263000000 GH
-10.0								Start Fre 30.000000 MH
-20.0								Stop Fre 2.496000000 GH
-40.0 -50.0 <u>-50.0 July 1015 and 1016 (1016)</u>		Hand Paper (Miles) (Miles)	de de stande d	kontra kalan bayan kalan kapa	allegaler _{tyre} ra Feblig of bird of galaxy		finde https://www. Approxycentellips	CF Ste 246.600000 MH <u>Auto</u> Ma
-60.0								Freq Offse 0 H
-70.0 Start 0.030 GHz						Stop 2	.496 GHz	Scale Typ
#Res BW 1.0 MHz	#VBW	3.0 MHz		ç	Sweep	z stop 3.288 ms (490 GH2 4933 pts)	
MSG					I STATU			

Plot 7-159. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)

			alyzer - Swe	ept SA								[- # ×
l <mark>,XI</mark> RI	L	RF	50 Ω	AC O	ORREC	SEI	NSE:INT	#Avg Typ	ALIGN AUTO e: RMS		PM Sep 05, 2024 ACE 1 2 3 4 5 6	Fre	quency
PAS	S			I	PNO: Fast 🕞 FGain:Low	Trig: Free #Atten: 2		" 8)P					Auto Tune
10 dE	3/div	Ref 2	20.00 d	Bm					MI	kr1 14.73 -40.	37 5 GHz 035 dBm		
Log	Trace	1 Pa	ss				Ĭ					с	enter Frec
10.0												8.845	000000 GH:
0.00													
-10 0													Start Free 000000 GH;
-10.0													
-20.0													Stop Free
-30.0												15.000	000000 GH
-40.0											4		CF Step
		<u>*</u>		فأقفر حرائص لوري	an the state of th	رىدىن يار يىلغە	ւ ենս այս էս, ի այ	, _p asological (Lot.) ph	i ya Maraka	p (Marine (all sub-later	Program Proping Constraints	1.231 <u>Auto</u>	000000 GH: Mar
-50.0	init a site			distantiant and	an ang sa pisinanan b	and the second s	أنوحاد الإفادان		غد کار زاند سر کار ا	a dagler a te sterio på stillbille	Anu, Alter		
-60.0												F	req Offse 0 Hi
-70.0													511
70.3												S	Scale Type
	t 2.690									Stop 1	5.000 GHz	Log	Lir
_	s BW 1	.0 MI	ΗZ		#VBW	/ 3.0 MHz		S			(24621 pts)		
SG									🚺 STAT	TUS			

Plot 7-160. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dama 440 af 400		
1M2408260069-07.A3L	09/03/2024 - 11/05/2024	Portable Handset	Page 110 of 186		
© 2024 ELEMENT			\///\/orNo» //\/orDato»		



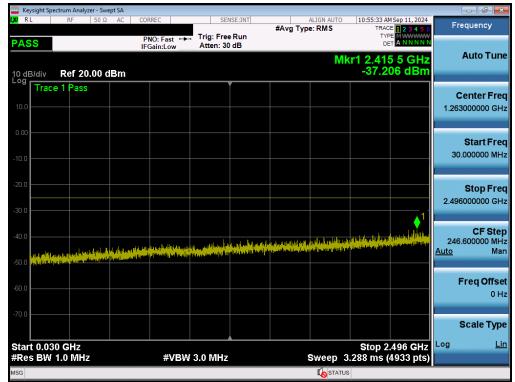
Spectrum Analyzer 1 Swept SA	+					Frequency	· · · 法
KEYSIGHT Input: RF R L Coupling: DC Align: Auto	Corr CCorr RCal Freq Ref: Int (S)	W Path: Standard	IF Gain: Low	#Avg Type: Power (RMS Trig: Free Run	123456 M WWWWW ANNNNN	Center Frequency 21.000000000 GHz	Settings
1 Spectrum	NFE: Off		Sig Track: Off	Mkr1 26.0	13 0 GHz	Span 12.0000000 GHz	
Scale/Div 10 dB	R	ef Level 0.00 dB	m	-4	7.24 dBm	Swept Span Zero Span	
						Full Span	
30.0						Start Freq 15.000000000 GHz	
40.0						Stop Freq 27.000000000 GHz	
50.0	and the factor of the second	Assistant and the first of the second se	and the second secon	ر. ایر الله رمانتاز و بلغه بداند. دار در همانه الک	ana ang ang ang ang ang ang ang ang ang	AUTO TUNE	
60.0 14/16/16/16/16/16/16/16/16/16/16/16/16/16/	Additional at a contract of the first of the section of the sectio	أطلقن ورجاهه مناحدين اعتقاد بالاري	Nienstrych, filt II., skielen (skiele		undo s code.	CF Step 1.200000000 GHz	
80.0						Auto Man	
						Freq Offset 0 Hz	
tart 15.000 GHz Res BW 1.0 MHz	#	Video BW 3.0 MH	lz	Stop Sweep ~22.8 ms	o 27.000 GHz s (24001 pts)	X Axis Scale Log Lin	Local
4 h C L	Oct 01, 2024					Signal Track (Span Zoom)	

Plot 7-161. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	st Dates: EUT Type:				
1M2408260069-07.A3L	09/03/2024 - 11/05/2024	9/03/2024 - 11/05/2024 Portable Handset				
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NR Band n41 – Ant B – Switching



Plot 7-162. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)

🚾 Keysight Spectrum Anal	/zer - Swept SA								
X RL RF		REC	SENS	Bun	#Avg Type	ALIGN AUTO E: RMS	TRA	M Sep 11, 2024 CE 1 2 3 4 5 6 PE M WWWWW	Frequency
PASS			#Atten: 20			Mk	□ r1 14.80		Auto Tun
10.0	3								Center Fre 8.857500000 G⊦
10.0									Start Fre 2.715000000 G⊦
30.0									Stop Fre 15.000000000 G⊦
40.0		neel jother Dir Ally, the	Weight Mary and a log of	المراجع	nathathana(lada)	ATTENT	Par al contra par provide de la contra de en contra de la contra de l		CF Ste 1.228500000 GH <u>Auto</u> Ma
50.0 1997 1999 1999 1999 1999 1999 60.0			and a second second second		n in de seine de sein				Freq Offse 0 ⊢
-70.0 Start 2.715 GHz							Stop 15	5.000 GHz	Scale Typ
Res BW 1.0 MH	2	#VBW 3	3.0 MHz		S	weep 2		24571 pts)	

Plot 7-163. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:		
1M2408260069-07.A3L	09/03/2024 - 11/05/2024		
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Spectrum Analyzer 1 Swept SA	+					/ 「 🕆
KEYSIGHT Input: RF RL Coupling: DC Align: Auto Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 10 dB µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 9 Trig: Free Run MWWWW A N N N N	21.000000000 GHz	Settings
Spectrum v	111 2. 01		olg Huck. on	Mkr1 26.285 5 GI	Span	
cale/Div 10 dB _og Trace 1 Pass		Ref Level 0.00 dB	m	-46.98 dB	M Swept Span Zero Span	
					Full Span	
20.0					Start Freq 15.000000000 GHz	
40.0				1	Stop Freq 27.000000000 GHz	
50.0	l Maran Sharay Maran (Maran (Maran (Maran	al desire a la mana a su a	ى يەر بىلىرىغى قىل بايدى بىرىنىيە يەر يەر يەر يەر يەر يەر يەر يەر يەر ي	NAMES AND ADDRESS OF A DESCRIPTION OF A	AUTO TUNE	
50.0 alasanandatiljupetik istana artiki	من ة الأ لفاط المتعدد بالمتريخ في منابع المالي المتعام (منابع المتعدد) (منابع المتعدد) (منابع المالي	a, and the business of the second states of the second states of the second states of the second states of the s	an a filian a san a filiana a san an filiana	n far sins singer som sy jarden og far de linger på singer på singer på singer på singer på singer singer singe Mennen singer singer som singer som singer	CF Step 1.200000000 GHz	
80.0					Auto Man	
					Freq Offset 0 Hz	
tart 15.000 GHz Res BW 1.0 MHz		#Video BW 3.0 MI	Hz	Stop 27.000 G Sweep ~22.8 ms (24001 p		Loca
	Oct 01, 2024 2:56:03 PM				Signal Track	

Plot 7-164. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 113 of 186		
1M2408260069-07.A3L	09/03/2024 - 11/05/2024	9/03/2024 - 11/05/2024 Portable Handset			
© 2024 ELEMENT		·	V«VerNo» «VerDate»		



Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 2470.0	-37.5	-25	-12.50
		Low	2690.0 - 15000.0	-40.69	-25	-15.69
		Low	15000.0 - 27000.0	-47.06	-25	-22.06
		Mid	30.0 - 2470.0	-37.14	-25	-12.14
NR-n41PC2	100MHz	Mid	2690.0 - 15000.0	-39.72	-25	-14.72
		Mid	15000.0 - 27000.0	-46.56	-25	-21.56
		High	30.0 - 2470.0	-36.64	-25	-11.64
		High	2715.0 - 15000.0	-40.52	-25	-15.52
		High	15000.0 - 27000.0	-46.79	-25	-21.79

Table 7-20. Conducted Emission Test Results - NR - Ant B

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 2470.0	-38.98	-25	-13.98
		Low	2690.0 - 15000.0	-39.74	-25	-14.74
		Low	15000.0 - 27000.0	-47.30	-25	-22.30
		Mid	30.0 - 2470.0	-38.00	-25	-13.00
NR-n41PC2	100MHz	Mid	2690.0 - 15000.0	-40.58	-25	-15.58
		Mid	15000.0 - 27000.0	-46.76	-25	-21.76
		High	30.0 - 2470.0	-37.39	-25	-12.39
		High	2715.0 - 15000.0	-40.54	-25	-15.54
		High	15000.0 - 27000.0	-47.13	-25	-22.13

Table 7-21. Conducted Emission Test Results – NR – Ant F– Switching

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 2470.0	-39.36	-25	-14.36
		Low	2690.0 - 15000.0	-41.33	-25	-16.33
	100MHz	Low	15000.0 - 27000.0	-46.96	-25	-21.95
		Mid	30.0 - 2470.0	-39.04	-25	-14.04
NR-n41PC2		Mid	2690.0 - 15000.0	-40.9	-25	-15.90
		Mid	15000.0 - 27000.0	-46.82	-25	-21.82
		High	30.0 - 2470.0	-37.3	-25	-12.30
		High	2715.0 - 15000.0	-40.64	-25	-15.64
		High	15000.0 - 27000.0	-47.23	-25	-22.23

Table 7-22. Conducted Emission Test Results - NR - Ant E

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	est Dates: EUT Type:			
1M2408260069-07.A3L	09/03/2024 - 11/05/2024	9/03/2024 - 11/05/2024 Portable Handset			
© 2024 ELEMENT	•	·	V«VerNo» «VerDate»		



Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 2470.0	-38.51	-25	-13.51
		Low	2690.0 - 15000.0	-40.29	-25	-15.29
		Low	15000.0 - 27000.0	-46.62	-25	-21.62
		Mid	30.0 - 2470.0	-38.76	-25	-13.76
NR-n41PC2	100MHz	Mid	2690.0 - 15000.0	-39.41	-25	-14.41
		Mid	15000.0 - 27000.0	-46.86	-25	-21.86
		High	30.0 - 2470.0	-39.03	-25	-14.03
		High	2715.0 - 15000.0	-40.55	-25	-15.55
		High	15000.0 - 27000.0	-47.09	-25	-22.09

Table 7-23. Conducted Emission Test Results – NR – Ant D – Switching

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 2470.0	-38.97	-25	-13.97
		Low	2690.0 - 15000.0	-40	-25	-15.00
		Low	15000.0 - 27000.0	-46.98	-25	-21.98
		Mid	30.0 - 2470.0	-38.72	-25	-13.71
NR-n41PC2	100MHz	Mid	2690.0 - 15000.0	-40.47	-25	-15.47
		Mid	15000.0 - 27000.0	-55.55	-34.21	-21.34
		High	30.0 - 2470.0	-38.24	-25	-13.24
		High	2715.0 - 15000.0	-40.74	-25	-15.74
		High	15000.0 - 27000.0	-47.06	-25	-22.06

Table 7-24. Conducted Emission Test Results – NR – Ant D

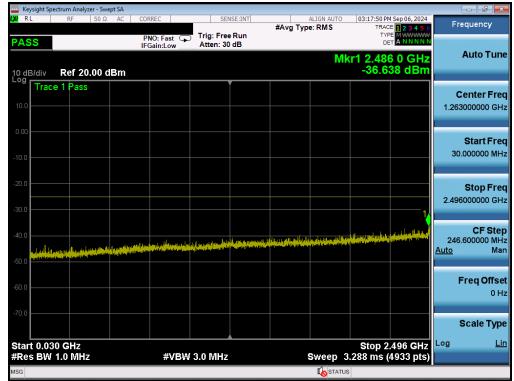
Mode	Bandwidth	Channel	Range	Level	Limit	Margin
mode	Banamatin	onamor	[MHz]	[dBm]	[dBm]	[dB]
		Low	30.0 - 2470.0	-38.44	-25	-13.44
		Low	2690.0 - 15000.0	-39.85	-25	-14.85
		Low	15000.0 - 27000.0	-46.95	-25	-21.95
		Mid	30.0 - 2470.0	-38.43	-25	-13.43
NR-n41PC2	100MHz	Mid	2690.0 - 15000.0	-40.44	-25	-15.44
		Mid	15000.0 - 27000.0	-47.44	-25	-22.44
		High	30.0 - 2470.0	-38.07	-25	-13.07
		High	2715.0 - 15000.0	-40.06	-25	-15.06
		High	15000.0 - 27000.0	-47.30	-25	-22.30

Table 7-25. Conducted Emission Test Results - NR - Ant E - Switching

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 115 of 186
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NR Band n41 – Ant B - Default



Plot 7-165. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)

weysight Spectrum Analyzer - Swept SA							
LX RL RF 50Ω AC	CORREC	SENSE:IN	T #Avg Typ	ALIGN AUTO	03:18:48 PM Se TRACE	p 06, 2024	Frequency
PASS	PNO: Fast 😱 IFGain:Low	Trig: Free Run #Atten: 20 dB			TYPE DET	ŇWWWWW NNNNN	
10 dB/div Ref 20.00 dBm				Mkr	1 14.752 -40.519	0 GHz 0 dBm	Auto Tune
Log Trace 1 Pass		Ĭ					Center Freq
10.0							8.857500000 GHz
0.00							
-10.0							Start Freq 2.715000000 GHz
~							
-20.0							Stop Fred 15.000000000 GHz
-30.0						1	CF Step
-40.0	ورينانها والمحمدان والمحمد والمحمد والمحمد	han alle alender al	un na skankark Betellog	han tan markani ta	and the second	Anne and the	1.228500000 GHz Auto Man
-50.0 (11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	and the state of the	and a strange of the strange of the strange			الاستغادة ورواله		
-60.0							Freq Offset 0 Hz
-70.0							
							Scale Type
Start 2.715 GHz #Res BW 1.0 MHz	#\(B)A(3.0 MHz		woon 24	Stop 15.0 .57 ms (245		Log <u>Lin</u>
#Res BW 1.0 Minz	#VBW	J.V MINZ	5	status		r pis)	

Plot 7-166. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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© 2024 ELEMENT			V«VerNo» «VerDate»



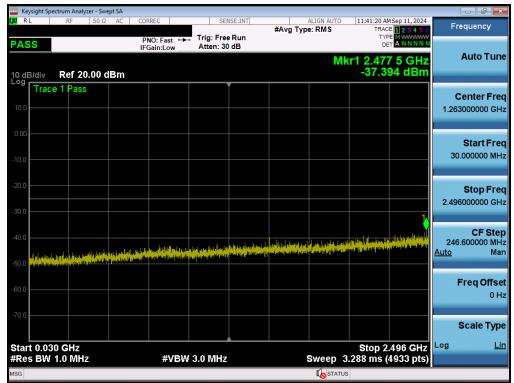
Spect Swep	rum Analyz : SA	zer 1 🔻	+				Frequency	· · · 😤
RL		Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 10 dB µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A N N N N	21.000000000 GHz	Settings
1 Spe	ctrum /Div 10 dE	v		Ref Level 0.00 dE	łm	Mkr1 26.410 0 GHz -46.79 dBm	12.0000000 0112	
Log	Trace						Swept Span Zero Span	
-10.0							Full Span	
-20.0 -30.0							Start Freq 15.000000000 GHz	
-40.0						1-	Stop Freq 27.000000000 GHz	
-50.0	aliterate la de secto	المرابع والمرابع والمرابع	Mankanangan pagkanakan	an la fata a na an	Terrer and the second	and the second secon	AUTO TUNE	
	All the Annual	and the state of the	(¹) ⁽¹⁾	الكلي في المتغلقا (ادما يكفي واليار واليوريوني). الم		د روی های میکند از این از میکند و بین میکند و میکند. میرود و همی میکند از این میکند و میکند.	CF Step 1.200000000 GHz	
-70.0							Auto Man	
-90.0							Freq Offset 0 Hz	
	15.000 GH BW 1.0 M			#Video BW 3.0 M	Hz	Stop 27.000 GHz Sweep ~22.8 ms (24001 pts)		Local
	5		? Oct 01, 2024 2:07:43 PM				Signal Track (Span Zoom)	

Plot 7-167. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n41 – Ant F - Switching



Plot 7-168. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant F)

	pectrum Analyzer -	Swept SA									J X
LXI RL	RF 50	Ω AC C	ORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO		M Sep 11, 2024	Frequen	icy
PASS		1	PNO: Fast ↔ FGain:Low	Trig: Free #Atten: 2		#/ 19 1) P		TY			_
10 dB/div	Ref 20.00	0 dBm					Mk	r1 14.95 -40.5	3 0 GHz 35 dBm	Auto	Tune
Log Trac	e 1 Pass									Cente 8.85750000	
-10.0										Star 2.7150000	t Fred 00 GHz
-20.0										Stoj 15.0000000	Frec 00 GH2
-40.0	. And the state of the	to differ de Normanino ANIMara	up ang palaggated	na harrett for menske	, alaya kanyarah	n selfen er fykstof	an a	ng _{(Dessey} ginan Selan Nama ang pangkan Selan	1. Herein fan tre	CF 1.22850000 <u>Auto</u>	Step 00 GH: Mar
-60.0		alah ^{dunakan k}	a e du ly a contra d'article.		and the particular					Freq	Offsel 0 Hz
-70.0										Scale	
Start 2.7 #Res BW	15 GHz 1.0 MHz		#VBW	3.0 MHz		s	weep <u>2</u>	Stop 15 4.57 ms (2	.000 GHz 4571 pts)	Log	Lin
MSG							I N STATU				

Plot 7-169. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant F)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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© 2024 ELEMENT		•	V«VerNo» «VerDate»	

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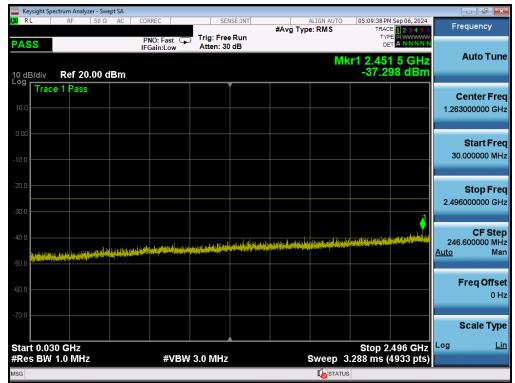
Spectrum Analyzer 1		A44 40 JD	PNO [:] Fast	//A T D (DM		Frequency	
KEYSIGHT Input: RF RL Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 10 dB µW Path: Standard		#Avg Type: Power (RM Trig: Free Run	123456 MWWWW ANNNN	Center Frequency 21.000000000 GHz	Settings
PASS Spectrum v	NFE. UI		Sig Hack. Oil	Mkr1 26.	172 5 GHz	Span 12.0000000 GHz	
cale/Div 10 dB		Ref Level 0.00 dE	lm	-4	7.13 dBm	Swept Span Zero Span	
10.0 Trace 1 Pass						Full Span	
						Start Freq 15.00000000 GHz	
0.0					1	Stop Freq 27.00000000 GHz	
	ekeletingangelynspel	an and a state of the	an (19) and a standard of the s	ne negative i serve a titure direction i		AUTO TUNE	
	dalah kumu kuput yang bang bang bang bang bang bang bang b	a _d a analah yang pangkan di dalah kang pangkan di ^{kan} ang pangkan di dalah kang	iti ka pari i di sa ka pina ki i	addated and a state of a		CF Step 1.200000000 GHz	
0.0						Auto Man	
00.0						Freq Offset 0 Hz	
tart 15.000 GHz		#Video BW 3.0 Mi	Hz		op 27.000 GHz	LOG	Loca
Res BW 1.0 MHz	Oct 01, 2024 2:56:48 PM			Sweep ~22.8 n	15 (24001 pts)	Signal Track	

Plot 7-170. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant F)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n41 – Ant E - Default



Plot 7-171. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant E)

🔤 Keysight Spectrum Analyzer - S	Swept SA				
X RL RF 50	Ω AC CORREC PNO: Fast	SENSE:INT	ALIGN AUTO #Avg Type: RMS	05:09:48 PM Sep 06, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW	Frequency
PASS 10 dB/div Ref 20.00	IFGain:Low	#Atten: 20 dB	Mkr	1 14.796 5 GHz -40.642 dBm	Auto Tune
10.0					Center Fred 8.857500000 GH
.00					Start Fre 2.715000000 GH
-20.0					Stop Fre 15.000000000 GH
-40.0	ja juun sikasapaita kasada k		a sa na kana ka sa ka na ka	And the state of t	CF Ste j 1.228500000 GH <u>Auto</u> Ma
-60.0	lle onigen behader nie het onende admine.	n an	er och son filming dan so det på grad klade (¹⁴³ million det		Freq Offse 0 H
-70.0 Start 2.715 GHz				Stop 15.000 GHZ	Scale Type
#Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep 24	.57 ms (24571 pts)	

Plot 7-172. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant E)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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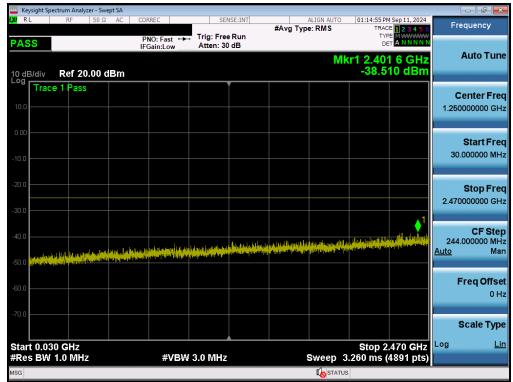
Spectrum Analyzer 1	+					Frequency	· • 🔀
KEYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 10 dB µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off			Center Frequency 21.000000000 GHz	Settings
PASS Spectrum	NFE. OII		Sig Hack. Oli	Mkr1 26.197 0		Span 12.0000000 GHz	
cale/Div 10 dB		Ref Level 0.00 dB	m	-47.23		Swept Span Zero Span	
10.0 Trace 1 Pass						Full Span	
						Start Freq 15.00000000 GHz	
40.0						Stop Freq 27.00000000 GHz	
50.0		an long with second of the state of the	والمصلة والتأطر أشفرو بالطليلية إسم	dependence and the location of the state	n in the second	AUTO TUNE	
50.0 <mark>101/101/101/101/101/101/101/101/101/101</mark>	The second s	an a tintatsia ana kikila a a saitu	the Annual of Million Constant and the	n _{De} landariller berge bereite byer er bilder bilder		CF Step 1.200000000 GHz	
						Auto Man	
90.0						Freq Offset) Hz	
tart 15.000 GHz		#Video BW 3.0 MI		Stop 27.0		(Axis Scale	Loca
Res BW 1.0 MHz		#video Bvv 5.0 ivi	ΠZ	Sweep ~22.8 ms (240		Log Lin	
	Oct 01, 2024 2:10:56 PM				\mathbf{X}	Signal Track Span Zoom)	

Plot 7-173. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant E)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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NR Band n41 – Ant D - Switching



Plot 7-174. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant D)

Keysight Spectrum Analyzer - Swept SA				
RL RF 50Ω AC		#Avg Type: RMS		Frequency
OdB/div Ref 20.00 dBm	PNO: Fast +++ Trig: Free IFGain:Low #Atten: 2	0 dB	Mkr1 14.951 5 GHz -40.289 dBm	Auto Tune
og Trace 1 Pass				Center Fre 8.845000000 GH
10.0				Start Fre 2.690000000 G⊦
30.0				Stop Fre 15.00000000 G⊦
	attering below to a feel at sing below the	et an stad franchista and state special for the second state state of the second state state of the second stat	Leader and the second state of the second stat	CF Ste 1.231000000 G⊢ <u>Auto</u> Ma
	in a support of the set	n an fair an Anna an		Freq Offse 0 ⊦
70.0 itart 2.690 GHz			Stop 15.000 GHz	Scale Typ
Res BW 1.0 MHz	#VBW 3.0 MHz		24.62 ms (24621 pts)	

Plot 7-175. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant D)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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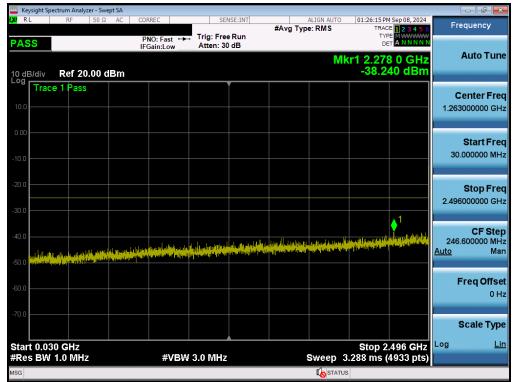
Swept SA KEYSIGHT Input: RF RL Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freg Ref: Int (S)	Atten: 10 dB µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low	#Avg Type: Power (RM: Trig: Free Run	8 <mark>123456</mark> M₩₩₩₩₩	Center Frequency 21.00000000 GHz	Settings
PASS Spectrum	NFE: Off		Sig Track: Off	Mkr1 25.5	A N N N N N	Span	
cale/Div 10 dB		Ref Level 0.00 dE	łm		6.62 dBm	12.0000000 GHz Swept Span Zero Span	
						Full Span	
0.0						Start Freq 15.000000000 GHz	
					1	Stop Freq 27.00000000 GHz	
	Being ten to be a state of the best of the	and the second	र क्रमित्र के लोग र से साल के लिय सेक	and the second	aliabili di bishapan	AUTO TUNE	
0.0 all a franchistic de la cale de	the second second in second	الليس بد الليانانان بين المطالبين	li din sol i fato ko punt kafad da	yi yuna kapudi ikuda dara karil ku ji dir, ada		CF Step 1.200000000 GHz	
0.0						Auto Man	
0.0						Freq Offset 0 Hz	
tart 15.000 GHz Res BW 1.0 MHz		#Video BW 3.0 M	Hz	Sto Sweep ~22.8 m	p 27.000 GHz s (24001 pts)	X Axis Scale Log Lin	Loca
- - - - -	Oct 01, 2024 2:57:12 PM	$ \rightarrow $				Signal Track	

Plot 7-176. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant D)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	
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NR Band n41 – Ant D - Default



Plot 7-177. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant D)

	pectrum Analyze	r - Swept SA									×
L <mark>XI</mark> RL	RF	50 Ω AC	CORREC	SEI	ISE:INT	#Avg Typ	ALIGN AUTO		M Sep 08, 2024	Frequency	
PASS			PNO: Fast ↔ IFGain:Low	Trig: Free #Atten: 2		*~ vg i yp		۳ د r1 14.92		Auto Tu	une
10 dB/div Log	Ref 20.	00 dBm						-40.7	'38 dBm		
10.0 Trac	ce 1 Pass									Center F 8.857500000 (
-10.0										Start F 2.715000000 (
-20.0										Stop F 15.000000000	
-40.0			i, h.s. of terms, stability with the	andhaa an Ann a tha a tha	19	ىرار <mark>بالم</mark> لطان سىمەللار ر	un and a state of the state of	n life by starting of the Staff	U gilden forster ført	CF Si 1.228500000 (<u>Auto</u>	
-50.0 117 11		f a month of the state of the s	an a la pha she an an an an an an	Latte distance	n falten an erke berekkelte	k (helen and an helen a	, kalasing mata	andra publicana populación de la		Freq Off	
-70.0										Scale Ty	0 H
Start 2.7 #Res BW	15 GHz / 1.0 MHz		#VBV	/ 3.0 MHz		s	weep :	Stop 1: 24.57 m <u>s (</u> 2	5.000 GHz 24571 pts)	Log	
MSG							I STAT	TUS			

Plot 7-178. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant D)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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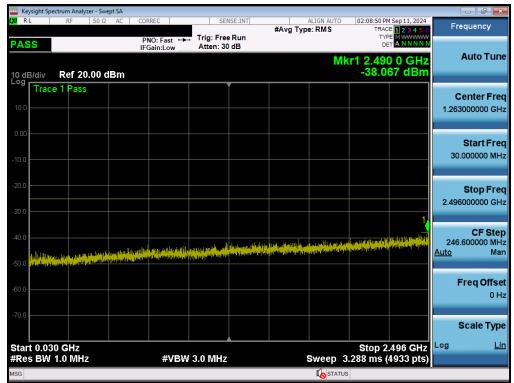
Align: Auto	Corr CCorr RCal Freq Ref: Int (S)	µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low		₩₩₩	Center Frequency 21.000000000 GHz	Settings
PASS Spectrum	NFE: Off		Sig Track: Off	Mkr1 25.780 0		Span 12.0000000 GHz	
cale/Div 10 dB		Ref Level 0.00 dB	m	-47.06	dBm	Swept Span Zero Span	
						Full Span	
0.0						Start Freq 15.000000000 GHz	
				1		Stop Freq 27.000000000 GHz	
	al hilden y heiden der bestenden heiden der	AND MARKAGE STREAM AND A STREAM	utility in the local data of the desired of the des	n september of the second state of the second	A Providence of A	AUTO TUNE	
and the hard as a state of	defilians, condita initia di anglas initia	gen a halladi (berata sekt Middli tapé di	New Orange and Annual Street	er en generalen fasten på den på her som en beter som en som e		CF Step 1.200000000 GHz	
0.0						Auto Man	
						Freq Offset 0 Hz	
art 15.000 GHz Res BW 1.0 MHz		#Video BW 3.0 Mł	Hz	Stop 27.0 Sweep ~22.8 ms (240	00 GHz	X Axis Scale Log Lin	Loca

Plot 7-179. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant D)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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NR Band n41 – Ant E - Switching



Plot 7-180. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant E)

🔤 Keysight Spectrum Analyzer - Swept	SA				
LX R L RF 50 Ω	AC CORREC	SENSE:INT	ALIGN AUT #Avg Type: RMS	0 02:09:07 PM Sep 11, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency
PASS 10 dB/div Ref 20.00 dB	PNO: Fast ++- IFGain:Low	#Atten: 20 dB	M	kr1 14.975 5 GHz -40.063 dBm	Auto Tune
10.0 Trace 1 Pass					Center Freq 8.857500000 GHz
-10.0					Start Fred 2.715000000 GHz
-20.0					Stop Fred 15.000000000 GH;
-40.0	as constitutions as a first of the same from the first of the graph of the same from the first of the graph of the same from the first of the graph of the same from the first of the graph of the same from the first of the graph of the same from the first of the graph of the same from the first of the graph of the same from the first of the graph of the same from the graph of the graph of the same from the graph of	Silve, 140, terperature di reatesti esti est	and a star with york by day the sure of the star of the	The feature of the second state of the second	CF Step 1.228500000 GH: <u>Auto</u> Mar
-50.0 111 111 111 111 111 111 111 111 111	ng ngang tang tang ng n	^{den} Harris forgenissen genanne blegenissen.	nin and a state of the state of		Freq Offse 0 Hz
-70.0				Stop 15.000 GHz	Scale Type
#Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep	24.57 ms (24571 pts)	

Plot 7-181. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant E)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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Spectrum Analyzer 1 Swept SA	+				Frequency	/ 「 诺
R L PASS	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 10 dB µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4) Trig: Free Run M +++++++++++++++++++++++++++++++++++	21.000000000 GHz	Settings
1 Spectrum				Mkr1 26.306 0 G	Span 12.0000000 GHz	
Scale/Div 10 dB		Ref Level 0.00 dB	3m	-47.30 dE	Swept Span Zero Span	
10.0 Trace 1 Pass					Full Span	
					Start Freq 15.000000000 GHz	
40.0					Stop Freq 27.000000000 GHz	
	kan n adalaannaliina	a La Jaran (1997) (1997) (1997) (1997) (1997)	a an	generation for the state of the second states and the second states and the	AUTO TUNE	
	and the first of the second	a a particle a table disconsistent	LARIN a tach Silbitha (talaina dila	and a second	CF Step 1,20000000 GHz	
					Auto	
90.0					Freq Offset 0 Hz	
					X Axis Scale	Local
start 15.000 GHz Res BW 1.0 MHz		#Video BW 3.0 MI	HZ	Stop 27.000 G Sweep ~22.8 ms (24001 p		
	Oct 01, 2024 2:58:56 PM				Signal Track (Span Zoom)	

Plot 7-182. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant E)

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7.5 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The minimum permissible attenuation level for Band 30 is > $43 + 10 \log 10$ (P[Watts] at 2300-2305MHz & 2345-2360MHz, > $55 + 10 \log 10$ (P[Watts]) at 2320-2324MHz & 2341-2345MHz, > $61 + 10 \log 10$ (P[Watts]) at 2324-2328MHz & 2337-2341MHz, > $67 + 10 \log 10$ (P[Watts]) at 2288-2292MHz & 2328-2337MHz, and > $70 + 10 \log 10$ (P[Watts]) at frequencies < 2288MHz & >2365MHz.

The minimum permissible attenuation level for Band 7 and 41 is as noted in the Test Notes on the following page.

Test Procedure Used

ANSI C63.26-2015 - Section 5.7.3

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW \geq 1% of the emission bandwidth
- 4. VBW <u>></u> 3 x RBW
- 5. Detector = RMS
- 6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-4. Test Instrument & Measurement Setup

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Test Notes

- 1. Per 27.53(a)(5) in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter 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 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.
- 2. Per 27.53(m) for operations in the BRS/EBS bands, 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. 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.
- 3. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 4. Per ANSI C63.26-2015, MIMO compliance was addressed by adding 10log(2) = 3dB to the output of each antenna. A visual inspection of the plots for each antenna shows that the emissions are still compliant even after adding 3dB.

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC2	20MHz	Low	Band Edge	-37.78	-25	-12.78
		High	Band Edge	-45.89	-25	-20.89
	15MHz	Low	Band Edge	-38.17	-25	-13.17
		High	Band Edge	-41.38	-25	-16.38
	10MHz	Low	Band Edge	-37.91	-25	-12.91
		High	Band Edge	-42.84	-25	-17.84
	5MHz	Low	Band Edge	-40.28	-25	-15.28
		High	Band Edge	-41.58	-25	-16.58

Table 7-26. Conducted Band Edge Test Results – LTE – Ant B

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC2	20MHz	Low	Band Edge	-36.79	-25	-11.79
		High	Band Edge	-30.98	-13	-17.98
	15MHz	Low	Band Edge	-37.96	-25	-12.96
		High	Band Edge	-26.53	-10	-16.53
	10MHz	Low	Band Edge	-37.31	-25	-12.31
		High	Band Edge	-27.12	-10	-17.12
	5MHz	Low	Band Edge	-38.74	-25	-13.74
		High	Band Edge	-41.36	-25	-16.36

Table 7-27. Conducted Band Edge Test Results - LTE - Ant F

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