

Keysight Spectrum Analyzer - Occupied B	W						- 0 -
LXIRL RF 50Ω DC	CORREC	SENSE:INT er Freg: 3.84000000 GHz	ALIGN AUTO	01:06:25 Pl Radio Std:	10ct 24, 2022	Trace	Detector
	Trig:	Free Run Avg Hol	d: 100/100				
	#IFGain:Low #Atte	en: 30 dB		Radio Dev	ice: BTS		
10 dB/div Ref 40.00 dBr	n						
30.0							
20.0						C	lear Write
10.0	al man and man and	marthallow					
0.00			< label{eq:started_startes_started_started_startes				
.10.0							Average
20.0	whith [*]		Wed .	n			
20.0 Bullishing many milling a further with			" mu	All martin lo	ANDINE LA LA		
40.0					a second		
-40.0							Max Hold
-50.0							
Center 3.84000 GHz				Span 7	5.00 MHz		
#Res BW 750 kHz	#	#VBW 2.4 MHz		Swe	ep 1 ms		Min Hold
Occupied Rendwidt	1 la	Total Power	30.0	dBm			
Occupied Bandwid		TOTALL OWER	50.5	ubm			
27	7.930 MHZ						Detector
Transmit Freq Error	-48.212 kHz	% of OBW Pow	ver 99	.00 %		Auto	Peak⊯ <u>Man</u>
x dB Bandwidth	29.66 MHz	x dB	-26	00 dB			
			20.				
NSC			STATI IS				
Mog			STATUS				

Plot 7-59. Occupied Bandwidth Plot (NR Band n77 - C-Band – 30MHz – QPSK - Full RB)



Plot 7-60. Occupied Bandwidth Plot (NR Band n77 - C-Band – 30MHz – 16-QAM - Full RB)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 52 of 200
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L + Align: Auto	Input Z: 50 Ω Atten: 32 dB Corr CCorr Freq Ref: Int (S) NFE: Off	Trig: Free Run Cent Gate: Off Avg #IF Gain: Low Rad	nter Freq: 3.840000000 GHz Hold: 100/100 lio Std: None	Center Frequency 3.840000000 GHz
Graph v				Span 62.500 MHz
ale/Div 10.0 dB 2g 0.0 0.0 0.0	Ref Value 40.0	10 aBm		CF Step 6.250000 MHz Auto Man
00 0.0 0.0 0.0 0.0 0.0	NAMANA -	Land Land Land Land Land Land Land Land	white address and the second states and the second s	Freq Offset 0 Hz
enter 3.84000 GHz tes BW 470.00 kHz	#Video BW 1.60	000 MHz	Span 62.5 MHz Sweep 1.00 ms (1001 pts)	
Vetrics v	MHz	Total Power	32 6 dBm	
Transmit Freq Error	-159.76 kHz 24.37 MHz	% of OBW Power x dB	99.00 % -26.00 dB	

Plot 7-61. Occupied Bandwidth Plot (NR Band n77 - C-Band – 25MHz – $\pi/2$ BPSK - Full RB)



Plot 7-62. Occupied Bandwidth Plot (NR Band n77 - C-Band – 25MHz – QPSK - Full RB)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage E2 of 200
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Spectrum Analyzer 1 Occupied BW	• +			Frequency	- ※
KEYSIGHT Input: RF R L Imput: RF Align: Auto	Input Z: 50 Ω Atten: 3 Corr CCorr Freq Ref: Int (S)	2 dB Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3.840000000 GHz Avg Hold: 100/100 Radio Std: None	Center Frequency 3.840000000 GHz	Settings
1 Graph v	Ref Valu	e 40 00 dBm		Span 62.500 MHz	
Log 30.0 20.0 10.0	and the second	and and a standard and a standard		CF Step 6.250000 MHz Auto Man	
0.00 -10.0 -20.0 -30.0 -40.0 -50.0	s. antorn happe		March Martin Ma	Freq Offset 0 Hz	
Center 3.84000 GHz #Res BW 470.00 kHz	∦ #Video B	W 1.6000 MHz	Span 62.5 MHz Sweep 1.00 ms (1001 pts)		
2 Metrics v		Total Dourse	22.0.45		
Transmit Freq Erro x dB Bandwidth	or -21.339 kHz 24.88 MHz	Notal Power % of OBW Power x dB	r 99.00 % -26.00 dB		
4 n C 1	Nov 05, 2022				

Plot 7-63. Occupied Bandwidth Plot (NR Band n77 - C-Band – 25MHz – 16-QAM - Full RB)



Plot 7-64. Occupied Bandwidth Plot (NR Band n77 - C-Band – 20MHz – $\pi/2$ BPSK - Full RB)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Spectrum Analy Occupied BW	/zer 1	+							\$	Frequency	- * 影
RL ++	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (\$	Atten: 32 dB 5)	Trig: Fre Gate: O #IF Gair	e Run ff n: Low	Center Freq Avg Hold: 10 Radio Std: N	: 3.840000000 00/100 None) GHz	Center 3.8400	Frequency 00000 GHz	Settings
1 Graph	•	NFE. OII							Span 50.000	MHz	
Scale/Div 10.0	dB		Ref Value 40.	00 dBm					CF Ster)	
30.0									5.0000	00 MHz	
20.0			aluan markaltur Maaran Ma	Marpannaha					Au Ma	to in	
-10.0		_							Freq Of	fset	
-20.0	ununun	walker the at				manut	Manhad	ม <i>าะคว</i> ศร เปลิก แก	0 Hz		
-40.0											
-50.0											
Center 3.84000) GHz		#Video BW 1.6	000 MHz			S	oan 50 MHz			
Res BW 470.00) kHz					Sw	eep 1.00 ms	s (1001 pts)			
2 Metrics	•										
Occup	bied Bandwidth										
	18.3	70 MHz		Total F	Power		30.5 dE	Bm			
Trans	mit Freq Error	-24.673	3 kHz	% of C	BW Powe	:r	99.00	%			
Xab	Januwiuti	19.57	WITZ	X dB			-20.00	uD.			
4 5		Nov 05, 202 8:05:47 AM	°©A								

Plot 7-65. Occupied Bandwidth Plot (NR Band n77 - C-Band – 20MHz – QPSK - Full RB)



Plot 7-66. Occupied Bandwidth Plot (NR Band n77 - C-Band – 20MHz – 16-QAM - Full RB)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-67. Occupied Bandwidth Plot (NR Band n77 - C-Band – 15MHz – $\pi/2$ BPSK - Full RB)



Plot 7-68. Occupied Bandwidth Plot (NR Band n77 - C-Band – 15MHz – QPSK - Full RB)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-69. Occupied Bandwidth Plot (NR Band n77 - C-Band – 15MHz – 16-QAM - Full RB)



Plot 7-70. Occupied Bandwidth Plot (NR Band n77 - C-Band – 10MHz – $\pi/2$ BPSK - Full RB)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-71. Occupied Bandwidth Plot (NR Band n77 - C-Band – 10MHz – QPSK - Full RB)



Plot 7-72. Occupied Bandwidth Plot (NR Band n77 - C-Band – 10MHz – 16-QAM - Full RB)

FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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.

For operations in the 3700 – 3980MHz band and the 3450 – 3550MHz band, the maximum permissible conducted power level of any spurious emission is -13dBm/MHz.

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 the tenth harmonic of the highest transmit frequency (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

Test Notes

- 1. Per Part 27.53(k), Part 27.53(l), 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.

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NR Band n77 (PC2) - DoD Band – SRS-1



Plot 7-73. Conducted Spurious Plot (NR Band n77 - DoD Band – 100MHz QPSK - RB Size 1, RB Offset 0 - SRS-1)



Plot 7-74. Conducted Spurious Plot (NR Band n77 - DoD Band - 100MHz QPSK - RB Size 1, RB Offset - SRS-1)

FCC ID: A3LSMS911U		Approved by: Technical Manager	
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Plot 7-75. Conducted Spurious Plot (NR Band n77 - DoD Band – 100MHz QPSK - RB Size 1, RB Offset 0 - SRS-1)

FCC ID: A3LSMS911U		Approved by: Technical Manager		
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NR Band n77 (PC2) - DoD Band – SRS-2



Plot 7-76. Conducted Spurious Plot (NR Band n77 - DoD Band - 100MHz QPSK - RB Size 1, RB Offset 0 - SRS-2)



Plot 7-77. Conducted Spurious Plot (NR Band n77 - DoD Band - 100MHz QPSK - RB Size 1, RB Offset 0 - SRS-2)

FCC ID: A3LSMS911U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dogo 62 of 200	
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🔤 Ke	ysight Spe	trum Analyzer - Sw	vept SA									
LXI R	L	RF 50 Ω	DC CO	RREC	SEI	NSE:INT	#Ava Tvp	ALIGN AUTO	09:00:37 PM	Oct 13, 2022	Fr	equency
PAS	22		F	NO: Fast 🖵	Trig: Fre	Run			TYP			
			ll-	Gain:Low	Atten: 10	db		NAL	-4 20 424	E CUI-		Auto Tune
10 di	3/div	Ref 0.00 d	Bm						-42.5	31 dBm		
208	Trace	1 Pass				Í						Center Freg
-10.0											30.00	0000000 GHz
-20.0												Start Fred
.30.0											20.00	0000000 GHz
00.0												
-40.0										♦ ¹		Stop Freg
								يستددانه بر	and the second second second	and the state	40.00	0000000 GHz
-50.0	Andre Leonard	ana ang ang ang ang ang ang ang ang ang	a militan bearing	a sheka na qayaq i qaara	alore line of a sold	and the second secon	and the second secon	n in the second seco Second second	ad <mark>i filmila</mark> a lahuur			
-60.0		alian a she was seen a suffi	a di sana na sa									CF Step
											2.00 <u>Auto</u>	0000000 GHz Man
-70.0												
												Freq Offset
-80.0												0 Hz
-90.0												
												Scale Type
Star	1 20.0) GHz							Ston 4	0.00 GHz	Log	Lin
#Re	s BW	1.0 MHz		#VBW	3.0 MHz		s	weep 3	64.67 ms (4	0001 pts)		
MSG								STAT	US			

Plot 7-78. Conducted Spurious Plot (NR Band n77 - DoD Band - 100MHz QPSK - RB Size 1, RB Offset 0 - SRS-2)

FCC ID: A3LSMS911U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dago 62 of 200
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NR Band n77 (PC2) - DoD Band - SRS-3



Plot 7-79. Conducted Spurious Plot (NR Band n77 - DoD Band - 100MHz QPSK - RB Size 1, RB Offset 0 - SRS-3)



Plot 7-80. Conducted Spurious Plot (NR Band n77 - DoD Band - 100MHz QPSK - RB Size 1, RB Offset 0 - SRS-3)

FCC ID: A3LSMS911U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dage 64 of 200	
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Keysight Spectrum Analyzer - Swept SA									
LX/ R L RF 50 Ω DC	CORREC	SENS	E:INT	Ava Type	RMS	08:25:07 PM TRAC	10ct 13, 2022	Fr	equency
PASS	PNO: Fast 😱 IFGain:Low	Trig: Free F Atten: 10 c	Run IB			TYP DE			
10 dB/div Ref 0.00 dBm					Mkr	1 38.346 -41.44	6 5 GHz 45 dBm		Auto Tune
-10.0								(30.00	Center Freq 0000000 GHz
-20.0								20.00	Start Freq 0000000 GHz
-40.0			· · · · · · · · · · · · · · · · · · ·		and and years and	an Kasaya ka Masaya Mananga ka Masaya	1 International States	40.00	Stop Freq 0000000 GHz
-60.0		n ja nie stalice jekst		an an an Anna Anna Anna Anna Anna Anna Anna Ann	and a stress of the			2.00 <u>Auto</u>	CF Step 0000000 GHz Man
-80.0								1	Freq Offset 0 Hz
-90.0									Scale Type
Start 20.00 GHz	#\/R\// 3			6	veen 34	Stop 4	0.00 GHz	Log	Lin
MSG	*VDVV 3	5.0 19112		5	STATUS	.07 mis (4	ooorpis)		

Plot 7-81. Conducted Spurious Plot (NR Band n77 - DoD Band - 100MHz QPSK - RB Size 1, RB Offset 0 - SRS-3)

FCC ID: A3LSMS911U		Approved by: Technical Manager			
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NR Band n77 (PC2) - DoD Band – SRS-4



Plot 7-82. Conducted Spurious Plot (NR Band n77 - DoD Band - 100MHz QPSK - RB Size 1, RB Offset 0 - SRS-4)



Plot 7-83. Conducted Spurious Plot (NR Band n77 - DoD Band - 100MHz QPSK - RB Size 1, RB Offset 0 - SRS-4)

FCC ID: A3LSMS911U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dage 66 of 200	
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	ysight Spe	ectrum Analyz	er - Swept SA	A									
l,XI R	L	RF	50 Ω D(C CORRI	EC	SE	NSE:INT	#Ava Tvp	ALIGN AUTO	11:26:01 PM TRAC	10ct 12, 2022	Fi	requency
PAS	SS			PNC IFGa):Fast 🕞 in:Low	Trig: Fre Atten: 1	e Run 0 dB			TYP			
10 di	B/div	Ref 0.0	0 dBm						Mk	r1 38.149 -43.0	9 0 GHz 59 dBm		Auto Tune
-10.0	Trace	e 1 Pass										(30.00	Center Freq 0000000 GHz
-20.0 -30.0												20.00	Start Freq 0000000 GHz
-40.0 -50.0				يند. الأفادير المادير	in an			pergenting and a little sea			1 I and and by an extension of the second	40.00	Stop Freq 0000000 GHz
-60.0	ineral-m-	galines de Téles Alexa i plantais				City of the bill be and the		arian (alta da Balla da Balla da Baranan				2.00 <u>Auto</u>	CF Step 0000000 GHz Man
-80.0													Freq Offset 0 Hz
-90.0													Scale Type
Star #Re	t 20.0 s BW	0 GHz 1.0 MHz			#VBW	3.0 MHz		s	weep 34	Stop 4 4.67 ms (4	0.00 GHz 0001 pts)	Log	Lin
MSG									STATU	IS			

Plot 7-84. Conducted Spurious Plot (NR Band n77 - DoD Band - 100MHz QPSK - RB Size 1, RB Offset 0 - SRS-4)

FCC ID: A3LSMS911U		Approved by: Technical Manager	
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NR Band n77 (PC2) - C-Band – SRS-1



Plot 7-85. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-1)



Plot 7-86. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-1)

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🔤 Key	sight Spea	ctrum Ana	yzer - Swep	ot SA											
<mark>lxi</mark> rl		RF	50 Ω	DC	CORREC		SEI	NSE:INT	#Avg 1	ALIGN AU Type: RMS	ITO	11:13:34 A TRA	M Oct 24, 2022	Freque	ency
PAS	S //div	Ref 0	.00 dB	m	PNO: Fas IFGain:Lo	st 😱	Trig: Free Atten: 10	e Run) dB		N	1kr1	∎ ∎ 1 39.22 -46.9	5 0 GHz 55 dBm	Aut	to Tun
-10.0 ·	Trace	e 1 Pas	S											Cent 30.000000	ter Fre 1000 GH
-20.0 -30.0														Sta 20.000000	art Fre 1000 GH
-40.0 -50.0					ر رولىللىر. ب	here that	ي المعادل			(Merthology)	and the second s	an da an	1 All the type books	Ste 40.000000	op Fre 1000 GH
-60.0	^a nder an open Storen in der	and a state of the second s		n bert in reite get i Nicht Gette sin til			ti fallingin ti	1 All Angles La		untende altuna	اأنتلىس			(2.000000 <u>Auto</u>	CF Stej 1000 GH Mai
-70.0															
-80.0														Free	q Offse 0 H
-90.0														Sca	le Typ
Stari #Res	20.00 BW	0 GHz 1.0 MH	z		#	VBW :	3.0 MHz			Sweep	34.	Stop 4 67 ms (4	0.00 GHz	Log	LI
MSG										ST	ATUS				

Plot 7-87. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-1)



Plot 7-88. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - SRS-1)

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Plot 7-89. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 – Mid Channel - SRS-1)



Plot 7-90. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - SRS-1)

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🔤 Ke	ysight Spect	rum Analyze	r - Swept SA								
l XI R	L	RF	50 Ω DC	CORREC		SENSE:INT	#0	ALIGN AUTO) 11:10:43 4	M Oct 24, 2022	Frequency
PAS	S			PNO: Fast IFGain:Lov	Trig	j: Free Run en: 30 dB	#Avg	Type: RMS	TY D	CE 1 2 3 4 5 6 PE M WWWWW DET A N N N N N	
10 di	3/div	Ref 20.0	00 dBm					N	lkr1 3.30 -42.0	5 5 GHz 42 dBm	Auto Tune
10.0	Trace	1 Pass									Center Free 1.865000000 GH
0.00 -10.0											Start Free 30.000000 MH
-20.0 -30.0											Stop Fre 3.700000000 GH
-40.0			وارتقا والمحمد المحم	a juli juga da di sa di sa di	i sulla statismid	ing signada bagan a basala	ر والمحمول المحمول الم محمول المحمول ا	Hiden og Legister for			CF Step 367.000000 MH <u>Auto</u> Mar
-60.0	na filosofia (na filosofia) parti filosofia (na filosofia)		locen ik for klassifikasi	iteriljuer, fektorist	te clant a la con						Freq Offse 0 H
-70.0	1 30 ML	17							Stop	3 700 CH-	Scale Type
#Re:	s BW 1.	.0 MHz		#\	/BW 3.0	MHz		Sweep	6.361 ms	(7341 pts)	
MSG								STAT	US		

Plot 7-91. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-1)



Plot 7-92. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-1)

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🔤 Keysi	ght Spec	trum Analyz	ter - Swep	t SA									
LXI RL		RF	50 Ω	DC CC	RREC	SEN	ISE:INT	#Avg Typ	ALIGN AU	TO 11:11:34 A TRAI	M Oct 24, 2022	F	requency
PASS	div	Ref 0.0)0 dBi	F IF	PNO: Fast Gain:Low	Atten: 10	dB		N	lkr1 38.16 -46.8	8 0 GHz 86 dBm		Auto Tune
-10.0	Trace	1 Pass										(30.00	Center Freq 0000000 GHz
-20.0												20.00	Start Freq 0000000 GHz
-40.0 -							Manual I		a da marina di kata	والغراب والمترابع والمراجعا والمار	1 JPterdparteners	40.00	Stop Freq 0000000 GHz
-60.0	politique des	na type († 1919–1936) And gang af filmer film	th _{e D} an an Albert Spannen er albert	nan daga da bahar da nan kapan da na kabu	n on an	and the second s	and the second s			n ja seli i Mili Missee feshissa 		2.00 <u>Auto</u>	CF Step 0000000 GHz Man
-80.0 -													Freq Offset 0 Hz
-90.0													Scale Type
Start∶ #Res	20.00 BW 1	GHz .0 MHz			#VBW	3.0 MHz			Sweep	Stop 4 34.67 ms (4	0.00 GHz 0001 pts)	Log	Lin
MSG									ST	ATUS			

Plot 7-93. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-1)

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NR Band n77 (PC2) - C-Band - SRS-2

🔤 Keysi	s Keysight Spectrum Analyzer - Swept SA												
LXI RL		RF	50 Ω	DC C	ORREC	SEN	SE:INT	#Avg Tvp	ALIGN AUTO	08:39:03 PI TRAC	M Oct 13, 2022	Fi	requency
PASS					PNO: Fast	Trig: Free	Run			TYP			
					FGain:Low	Atten: 30	dБ		M	k-1 2 60			Auto Tune
10 dB4	diu	Dof 2	0.00 d	Bm					IVI	-37.7	20 GH2 36 dBm		
	Trace	1 Pas	0.00 a	БШ									
	Trace	1 43.										(Center Freq
10.0						کے						1.86	5000000 GHz
0.00													Start Freq
10.0						<u>صوا</u>						30	0.000000 MHz
-20.0						وعلها،							Ston Fred
												3.70	0000000 GHz
-30.0											. 1		
											↓ ↓ 1		CE Sten
-40.0						بارته مامد ا	المشاوين ارب		a ed. de decenije, haer	and the second second second	in the second pilling and a	367	7.000000 MHz
	al anna	a Markad		and a state of the			a series a substantial	and the second sec	بمساويلين وتلغاه	ab (internet)		<u>Auto</u>	Man
-5010	فالحما المحضران		it ju demo			هد ا							
-60.0													Freq Offset
													0 Hz
-70.0													
													Scale Type
	20 14	1.00								Eton 2	700 CH-	Loa	Lin
#Res	BW 1	יב .0 MH	z		#VBV	V 3.0 MHz			Sweep	6.361 ms (7341 pts)		
MSG									STATI	US			

Plot 7-94. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-2)



Plot 7-95. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-2)

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🔤 Keysight Sp	ectrum Analyzer - Sw	ept SA									
<mark>(</mark> RL	RF 50 Ω	DC 0	CORREC	SEI	SE:INT	#Ave T	ALIGN AUTO	08:40:12 P	M Oct 13, 2022	E	requency
			PNO: Fast	Trig: Free	Run	#Avg Typ	e: RIVIS	TY			
PASS			IFGain:Low	Atten: 10	dB			Di			Auto Tun
							Mkr	1 38.40	7 0 GHz		Auto Tun
0 dB/div	Ref 0.00 dl	Bm						-42.8	89 dBm		
Trac	e 1 Pass			ľ							Center Fre
10.0										30.00	
										00.00	000000000
20.0											
											Start Fre
30.0										20.00	0000000 GH
40.0									$\downarrow \diamond^1$		Stop Fre
							العاديات بالراب	والروحا فالدفر والأفط ألق	and the strength	40.00	0000000 GH
50.0	أيعداد ويراويها ورار	ويتقاط والمرور والمقال	a na an	A COLUMN TWO IS NOT	a a a a a a a a a a a a a a a a a a a	a thugh and a floor	A sure of the second	ويرافيهم والأتانية	ىرىغ بىيەللەر يايىلىلەر <u>كەر .</u> 1		
and a final state	and Alexan a becaused	n and a start of the second	and the second secon	and the local division of the local division	No. on a state	من المراجعة (Ministry and Angel) . المناطقة المراجع المراجع المراجع (Ministry and Angel) .	P.L.				CE Stor
60.0										2.00	0000000 GH
										<u>Auto</u>	Ma
-70.0											
											Freq Offse
-80.0											0 H
~ ~											
-90.0											Scale Tvp
											e cuie i jp
Start 20.0	0 GHz							Stop 4	0.00 GHz	Log	Li
#Res BW	1.0 MHz		#VBW	3.0 MHz		S	weep 34	.67 ms (4	0001 pts)		
ISG							STATUS				

Plot 7-96. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-2)

🔤 Ke	ysight Spect	rum Analyz	er - Swej	pt SA										
l,XI R	L	RF	50 Ω	DC	CORREC		SEI	NSE:INT	#Avg Ty	ALIGN AUT	0 08:53:52 F TRA	M Oct 13, 2022 CE 1 2 3 4 5 6	F	requency
PAS	3/div	Ref 20	.00 d	Bm	PNO: F IFGain:	ast 😱 Low	Atten: 30	dB		N	/lkr1 3.66 -38.0	7 5 GHz 22 dBm		Auto Tune
Log 10.0	Trace	1 Pass											1.86	Center Freq i5000000 GHz
0.00 -10.0													3	Start Freq 0.000000 MHz
-20.0 -30.0												1	3.70	Stop Freq 10000000 GHz
-40.0	The state of the		territy Par	, a da de Presidente Recedente de Carlos d	an a sa anna	ling og hadde Storige Storige		e ya Inderada Parata	en bereiten bereiten ber	ine of the of the second s		n Shengil pjer statis Narvijsko za poslavna Narvijsko za poslavna	36 <u>Auto</u>	CF Step 7.000000 MHz Man
-60.0														Freq Offset 0 Hz
														Scale Type
Star #Re	t 30 MI s BW 1	lz .0 MHz			_	#VBW	3.0 MHz			Sweep	Stop 3 6.369 ms	3.700 GHz (7350 pts)	Log	Lin
MSG										STA	TUS			

Plot 7-97. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - SRS-2)

			Approved by:			
FCC ID: A3I SMS91111		PART 27 MEASUREMENT REPORT	Approved by:			
		Technical Manager				
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Mark RF SO Q DC CORREC SENSENT ALIGN AUTO Des-H2B MOD (13, 2022) Frequency PASS PN0: Fast IF Gain:Low Trig: Free Run Atten: 30 dB TACC 234 ST ALIGN AUTO Des-H2B MOD (13, 2022) ALIGN AUTO	🔤 Keysi	ght Spectru	m Analyzer - Sw	ept SA									
PASS PNO: Fast IFGain:Low Trig: Free Run Atten: 30 dB Mkr1 19.556 4 GHz -32.223 dBm Auto Tune 10 dB/div Ref 20.00 dBm -32.223 dBm -32.223 dBm -32.223 dBm 1.99000000 GHz 10 0	l xi RL		RF 50 Ω	DC CC	DRREC	SE	NSE:INT	#Avg Typ	ALIGN AUT e: RMS	TO 08:54:20 F TRA	CE 1 2 3 4 5 6	Fr	equency
Cog Trace 1 Pass Center Freq 100 Image: Comparison of the second se	PASS	div R	ef 20.00 (l Bm	PNO: Fast G	Trig: Fre Atten: 30	e Run) dB		M	™ 19.55- 182.2	6 4 GHz		Auto Tune
0.000 Start Freq .100 Start Freq .200 Start Freq .200 Start Freq .200 Stop Freq .200 .20000000 GHz .200 .20000 GHz .200 .20000 GHz .200 .2000 GHz .200	10.0	Trace 1	Pass									(11.99	Center Freq 0000000 GHz
-200	-10.00											3.98	Start Freq
-400 -400	-20.0 -30.0											20.00	Stop Freq 0000000 GHz
60.0 Freq Offset 70.0 Freq Offset 70.0 Start 3.980 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Start 3.980 GHz Stop 20.000 GHz Log Lin	-40.0			A Angele (NDM) National Angele (NDM)	alış t ^a nış başında olan başında başında Başında başında b	A CARLEND A SAN AN	terationer flygerige staatietieter	Nelse per litter for an and	n ann aine ann an Anna ann a'	and and and any space of the solution of the s	and the second	1.60: <u>Auto</u>	CF Step 2000000 GHz Man
Start 3,980 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Start 3,980 GHz #VBW 3.0 MHz Sweep 28.83 ms (36041 pts)	-60.0											1	F req Offset 0 Hz
Start 3.980 GHz Stop 20.000 GHz Log Lin #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 28.83 ms (36041 pts) Image: Compare the second se	-70.0												Scale Type
	Start #Res	3.980 C	Hz MHz		#\/B\A	(30 MHz		-	ween	Stop 20).000 GHz	Log	Lin
	MSG				<i></i>				ST/	ATUS	500-1 pt3)		

Plot 7-98. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 – Mid Channel - SRS-2)



Plot 7-99. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - SRS-2)

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Keysight Spectrum Analyzer - Swept SA					
LXU RL RF 50Ω DC	CORREC	SENSE:INT #A	ALIGN AUTO	08:44:22 PM Oct 13, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS 10 dB/div Ref 20.00 dBm	PNO: Fast IFGain:Low Atten:	iree Run : 30 dB	M	kr1 3.608 5 GHz -37.431 dBm	Auto Tune
Log Trace 1 Pass					Center Freq 1.865000000 GHz
-10.0					Start Freq 30.000000 MHz
-20.0					Stop Freq 3.700000000 GHz
-40.0	14 - 16 1 16 1 - 5 kan kita Ling dali panka milikina shi Marina 19	tal tal na fala da a fara da	t set i filoso post al post i filoso i filoso de la seta seta seta seta seta seta seta set		CF Step 367.000000 MHz <u>Auto</u> Man
-60.0					Freq Offset 0 Hz
				04 0 700 OU-	Scale Type
#Res BW 1.0 MHz	#VBW 3.0 MH	lz	Sweep	5.361 ms (7341 pts)	
MSG			STATI	JS	

Plot 7-100. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-2)



Plot 7-101. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-2)

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🔤 Keysigh	it Spectrum An	alyzer - Swep	t SA									
L <mark>XI</mark> RL	RF	50 Ω	DC COR	REC	SEN	ISE:INT	#Avg Typ	ALIGN AUT e: RMS	TO 08:45:31 P	MOct 13, 2022	Frequ	ency
PASS	v Ref (0.00 dBi	PI IFC	Ю: Fast ⊊ Gain:Low	Atten: 10	dB		M	kr1 38.28 -42.7	9 0 GHz 94 dBm	Au	to Tune
-10.0	race 1 Pas	SS									Cen 30.000000	ter Freq 0000 GHz
-20.0											St 20.000000	art Freq 0000 GHz
-40.0 -50.0	. r o ta sarrat albida	و ب	ng pangadi (pangana pangana p	an an Angel angen	a the state of the st	an a	a na sa		a fu	1 ny Hadana dia manda ana dia kana dia manjar	St 40.000000	o p Freq 0000 GHz
-60.0			forskaan, sal - Andrik Kal	Vinden förstandsamta och	and and a second se						2.000000 <u>Auto</u>	CF Step 0000 GHz Man
-80.0											Fre	q Offset 0 Hz
-90.0											Sca	ale Type
Start 2 #Res B	0.00 GHz W 1.0 MI	Hz		#VBW	3.0 MHz		s	weep	Stop 4 34.67 ms (4	0.00 GHz 0001 pts)	Log	Lin
MSG								ST	ATUS			

Plot 7-102. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-2)

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NR Band n77 (PC2) - C-Band – SRS-3



Plot 7-103. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-3)



Plot 7-104. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-3)

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Plot 7-105. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-3)



Plot 7-106. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - SRS-3)

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LX0 RL RF 50Ω DC	CORREC	SENSE:INT #Avg	ALIGN AUTO g Type: RMS	07:49:59 PM Oct 13, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS 10 dB/div Ref 20.00 dBm	PNO: Fast Figs F IFGain:Low Atten:	: 30 dB	Mkr	1 19.511 5 GHz -31.625 dBm	Auto Tune
Trace 1 Pass					Center Freq 11.990000000 GHz
-10.0					Start Freq 3.980000000 GHz
-20.0					Stop Freq 20.000000000 GHz
	ing and gained and and and an	n dan kang mengenya pengenya pengenya dan sebagai pengenya dan sebagai pengenya dan sebagai pengenya dan sebag Pengenya pengenya dan sebagai pengenya dan sebagai pengenya dan sebagai pengenya dan sebagai pengenya dan sebag Pengenya pengenya dan sebagai pengenya dan sebagai pengenya dan sebagai pengenya dan sebagai pengenya dan sebag)) (in a stand of the second s	n er par til först skalla skalla som er först först först förstande som er Til som er förstande som er som er som er först först först först förstande som er som er som er som er som er Til som er so	CF Step 1.602000000 GHz <u>Auto</u> Man
-60.0					Freq Offset 0 Hz
-70.0					Scale Type
Start 3.980 GHz #Res BW 1.0 MHz	#VBW 3.0 MI	17	Sweep 28	Stop 20.000 GHz 83 ms (36041 pts)	
MSG			STATUS		

Plot 7-107. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 – Mid Channel - SRS-3)



Plot 7-108. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - SRS-3)

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🔤 Ke	ysight Spe	ctrum Ana	lyzer - Swe	pt SA										
l XI R	L	RF	50 Ω	DC	CORREC		SE	NSE:INT		ALIGN AUTO	08:03:42 P	M Oct 13, 2022	Fr	equency
PAS	S				PNO: Fa IFGain:Lo	st 🖵	Trig: Fre Atten: 3	e Run) dB	#Avg Iy	pe: RMS	TY D	DE 1 2 3 4 5 6 PE M WWWWW ET A N N N N N		oqueriey
10 di	3/div	Ref 2	0.00 d	Bm						Μ	kr1 3.62 -38.2	6 5 GHz 44 dBm		Auto Tune
10.0	Trace	e 1 Pas	S										C 1.86	enter Freq 5000000 GHz
0.00 -10.0													30	Start Freq
-20.0 -30.0													3.700	Stop Freq 0000000 GHz
-40.0 -50.0	a a la sub la catilata da sub			tera di atti azioni di sanci atti si si	ndijer vski koka nakov poslatni s		, aparta, atita (da nagiona, ganta (a ta a 1 de series de la constitución Parte en la constitución de la constitución Parte en la constitución de la constitución de la constitución de la				367 <u>Auto</u>	CF Step .000000 MHz Man
-60.0														F req Offset 0 Hz
-70.0														Scale Type
Star #D	t 30 M	Hz	-							Succes	Stop 3	700 GHz	Log	Lin
#Re	5 BW	T.U IVII	Z		#	APM 3	D.U IVIHZ			Sweep	0.301 MS ((7341 pts)		
MSG										STAT	JS			

Plot 7-109. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-3)



Plot 7-110. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-3)

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🔤 Key	sight Spea	trum Analyze	er - Swept SA											
lxi Rl		RF	50 Ω DC	CORREC		SEN	ISE:INT	#Avg Ty	ALIGN AU pe: RMS	то	08:04:51 PM TRAC	Oct 13, 2022	F	requency
PAS	S S/div	Ref 0.0	0 dBm	PNO: F IFGain:	ast 😱 Low	Atten: 10	dB		N	lkr1 -	39.36 -42.4	3 0 GHz 14 dBm		Auto Tune
-10.0	Trace	1 Pass											30.00	Center Freq 00000000 GHz
-20.0 + -30.0 +													20.00	Start Freq 00000000 GHz
-40.0 -50.0	No Marra II	منطري بىغد . قد مىر	اسم ويتفعللون إن	AND A DIA CONTRA	a <mark>l post e l'Asse</mark>	a haran da ya ƙara ta ƙasar ta	and the second	and the production of the prod	(place) (1) (1)	A section and	u an	1 grittleterinster grittleterinsterer	40.00	Stop Freq 00000000 GHz
-60.0	lle geschetter, j				l Miry de le Miry de la C	and a second	i i i ning an ang aika						2.00 <u>Auto</u>	CF Step 00000000 GHz Man
-80.0														Freq Offset 0 Hz
-50.0														Scale Type
Start #Res	20.00 BW) GHz 1.0 MHz			#VBW	3.0 MHz			Sweep	34.67	Stop 4 7 ms (4	0.00 GHz 0001 pt <u>s)</u>	Log	Lin
MSG									ST	ATUS				

Plot 7-111. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-3)

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NR Band n77 (PC2) - C-Band - SRS-4



Plot 7-112. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-4)



Plot 7-113. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-4)

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Keysight Sp	ectrum Analyze	er - Swept SA									×
L <mark>XI</mark> RL	RF	50 Ω DC	CORREC	SEI	NSE:INT		ALIGN AUTO	10:42:14	PM Oct 12, 2022	Frequency	
			DNO: Feet	Tria: Fre	e Run	#Avg Typ	e:RMS	TN TN	CE 1 2 3 4 5 6 PE M WWWW	rioquonoy	
PASS			IFGain:Low	Atten: 10) dB			0	ET A N N N N N		
							Mk	r1 38.82	1 5 GHz	Auto Tu	n
10 dB/div	Ref 0.0	0 dBm						-42.9	69 dBm		
	e 1 Pass				Y						
										Center Fr	e
-10.0										30.00000000 G	Η
-20.0									+		
										Start Fr	e
-30.0										20.00000000 G	iΗ
-40.0									↓ \1_	Stop Er	- 01
								. das materia	The state of the state of the	40 00000000 G	с. •⊔
-50.0				n		ويتعاوله والمعال	Long Augustanian	and the state of the	1 Michael - Marvada	40.0000000000000	'n
and the second states of the s	d all a stand and a stand	^{n (} ⁿ ,	The lotters of the list of the	adhalaana ataa a	in ore grant	فيسمع الماليون فالمراجع	approximate statistics				
-60.0	and a selection of the selection of		and the second second	on the second second						CF St	e
										2.00000000 G	iH Aai
-70.0											
-80.0										Freq Offs	se
00.0										0	Н
an n											
-50.0										Scale Tv	m
Start 20.0	0 GHz							Stop 4	10.00 GHz	Log <u>l</u>	Li
#Res BW	1.0 MHz		#VB	V 3.0 MHz		S	weep 3	14.67 ms (40001 pts)		
MSG							STAT	US			

Plot 7-114. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - SRS-4)



Plot 7-115. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - SRS-4)

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🔤 Key	/sight Spec	trum Analyze	r - Swept SA										
lxi ri		RF	50 Ω DC	CORREC		SEN	SE:INT	#Avg Tvp	ALIGN AUT e: RMS	0 10:13:08 TR/	CE 1 2 3 4 5 6	Fr	equency
PAS	S			PNO: F IFGain:L	ast T	rig: Free Atten: 30	Run dB	0 //		T			
10 dE	3/div	Ref 20.	00 dBm						M	kr1 19.94 -32.1	0 4 GHz 60 dBm		Auto Tune
10.0	Trace	1 Pass										(11.99	Center Freq 0000000 GHz
0.00 -10.0												3.98	Start Freq 0000000 GHz
-20.0 -30.0											1	20.00	Stop Freq 0000000 GHz
-40.0				gladigi (portanta anistikatika dikatika	المراجع (في ماريخ مراجع) مراجع (في مراجع (مراجع) مراجع (في مراجع)	a by hay seen to get	na bite Departur na territe departur	naspjar ternilos Novintinais acc	inger best genorge Genoem billeren en	Herein an Antonia an An Antonia an Antonia an An	na sina na sana na sana sa	1.60: <u>Auto</u>	CF Step 2000000 GHz Man
-60.0													Freq Offset 0 Hz
-70.0													Scale Type
Star #Do	t 3.980	GHZ			41/D14/ 2 /				Waan	Stop 2	0.000 GHz	Log	Lin
#RC	DW 1	.v WIHZ			≠V⊟VV J.			5	weep	28.83 ms (30041 pts)		
MSG									STA	105			

Plot 7-116. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 – Mid Channel - SRS-4)



Plot 7-117. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - SRS-4)

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🔤 Ke	ysight Spectr	rum Analyze	r - Swept SA									
l,Xi R	L	RF	50 Ω DC	CORREC		SENSE:INT		ALIGN A	UTO 11:0	5:52 PM Oct 12, 2022	E	requency
PAS	S			PNO: Fa IFGain:L	st 🖵 Tri ow At	g: Free Run ten: 30 dB	#AV	g Type: RMS	•			
10 dl	3/div	Ref 20.	00 dBm						Mkr1 3 -3	.165 0 GHz 8.322 dBm		Auto Tune
10.0	Trace	1 Pass									(1.86	Center Freq 5000000 GHz
0.00 -10.0											30	Start Freq 0.000000 MHz
-20.0 -30.0										1	3.70	Stop Freq 0000000 GHz
-40.0 -50.0	الفارية (المربية) ماريخ المربية	ارون و او او م در دو همان و او او م		Control (1), p. (a broad of the cycle contract of control (1)	ull Lation of Articles Principal particular		n an Anni an Anni a' An Anni an Anni An Anni an Anni an Anni an Anni an Anni Anni an Anni an Anni an Anni an Anni	handen som		a band par bailte par la superior de la companya d Companya de la companya de la company Companya de la companya de la company	367 <u>Auto</u>	CF Step 7.000000 MHz Man
-60.0												Freq Offset 0 Hz
-70.0												Scale Type
Star #Po	t 30 MH s B14(_1	IZ 0 MHz		#	VBM 3.0	MHz		Swee	Sto n 6 361	op 3.700 GHz ms (7341 pts)	LUg	Lin
MSG	5-5WF 1.	w Wint2			CEAP 5.0	MI12		GWCG		no (ros rpto)		

Plot 7-118. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-4)



Plot 7-119. Conducted Spurious Plot (NR Band n77 - C-Band – 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-4)

FCC ID: A3LSMS911U		Approved by: Technical Manager	
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🔤 Keysig	ght Spec	trum Analyzer -	Swept SA									
L <mark>XI</mark> RL		RF 5	0Ω DC	CORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUT e: RMS	0 11:08:11 P	MOct 12, 2022	Fre	equency
PASS	div	Ref 0.00	dBm	PNO: Fast 🖵 IFGain:Low	Atten: 10	dB		M	kr1 39.76 -43.0	1 5 GHz 35 dBm		Auto Tune
-10.0	Frace	1 Pass									C 30.000	e nter Freq 0000000 GHz
-20.0											20.000	Start Freq 0000000 GHz
-40.0		ar a pri falatsasad	terester bellerge beste	ten anna y ceanglaine a feal la fhaile	a fraidtha frains an an				a a suite de la constant de la const	an Palanta a Sanaha Andrea a Sanaha	40.000	Stop Freq
-60.0				a ta deleta i fe dife i bia fa cina sita de a ta	e bie is for faith and	in the second					2.000 <u>Auto</u>	CF Step 0000000 GHz Man
-80.0											F	F req Offset 0 Hz
-56.6											9	Scale Type
Start 2 #Res I	20.00 BW 1	GHz .0 MHz		#VBW	3.0 MHz		s	weep	Stop 4 34.67 ms (4	0.00 GHz 0001 pts)	Log	Lin
MSG								STA	TUS			

Plot 7-120. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - SRS-4)

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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.

For operations in the 3700 – 3980MHz band and the 3450 – 3550MHz band, the maximum permissible conducted power level of any out-of-band emission is -13dBm/MHz.

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 \geq 3 x RBW
- 5. Detector = RMS
- 6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
- 7. Trace mode = trace averaging
- 8. Trigger is set to "free run" for signals with continuous operation. Trigger is set to enable sweeps only during full power bursts for signals with pulsed operation.
- 9. Sweep time = auto couple for signals with continuous operation; sweep set less than burst duration for signals with pulsed operation.
- 10. 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

- Per Part 27.53(I), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.
- 2. Per Part 27.53(n), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.
- 3. 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.
- 4. 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.

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NR Band n77 (PC2) - DoD Band – SRS-1





Plot 7-122. Upper ACP Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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Spectru Spuriou	m Analy s Emiss	/zer 1 sions	• +									Frequency	・絵
RL	IGHT ↔	Input: RF Coupling Align: Au	DC Cor to Fre NFI	ut Z: 50 Ω r CCorr q Ref: Int (S) Ξ: Off	Atten: 36 dB	Trig: F Gate: IF Gai	Free Run LO n: Low	Center Fre Radio Std:	q: 3.49500000 None	00 GHz	Center 3.4950	Frequency 000000 GHz	Settings
3 All Rar	nge Gra	ph v									CF Ste 716.00	р)2000 MHz	
Scale/D	iv 10.0	dB			Ref Value 30.	00 dBm					A	ito	
Log											M	an	
10.0											Freg O	ffset	
										、	0 Hz		
-10.0													
-20.0													
-30.0													
-40.0	ويعدونه والمحادث	****	J.		and the second					Carl and an indiana			
-50.0													
-60.0													
Start 3.	338 GH	z							Sto	p 3.563 GHz			
4 All Rar	nae Tabl	e '											
						Me	asure Trac	0		Trace 1			
						Tra	ice Type		Trace Avera	age (Active)			
	Spur	Range	Start Freq	Stop Freq	RBW	Freque	ency	Amplitude	∆Lirr	nit			
	1	1	3.3375 GHz	3.4450 GHz	1.000 MHz	3.374587	500 GHz	-37.87 dBm	-24.8	7 dB			
	2	2	3.4450 GHz	3.4490 GHz	510.0 kHz	3.448860	000 GHz	-40.67 dBm	-27.6	7 dB			
	3	3	3.4490 GHz	3.4500 GHz	360.0 kHz	3.449923	333 GHz	-41.23 dBm	-28.2	3 dB			
	4	4	3.4500 GHz	3.5625 GHz	1.000 MHz	3.505125	000 GHz	4.276 dBm	-21.7	2 dB			
	ち	2		ov 05, 2022 0:28:24 AM	\Box								

Plot 7-123. Lower ACP Plot (NR Band n77 - DoD Band – 90MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB - SRS-1)

Spectr Spurio	um Analı us Emiss	yzer 1 sions	• +									\$	Frequency	- * 影
REYS RL	SIGHT +►+	Input: RF Coupling Align: Au	DC Corr to Free	t Ζ: 50 Ω CCorr Ref: Int (S)	Atten: 36 dB		Trig: Free Ru Gate: LO IF Gain: Low		Center Freq: 3.505000000 GHz Radio Std: None			Center 3.505	Frequency 000000 GHz	Settings
LXI	PASS		NFE	: Off								CF Ste	ep	
3 All R	ange Gra	ph 🖪	1									716.0	02000 MHz	
Scale/	Div 10.0	dB		F	Ref Value 30.	00 dB	3m					A	uto	
Log												M	an	
20.0												Frea C)ffset	
					manhany							0 Hz		
-10.0														
-20.0														
-30.0														
-40.0		-						-	·····	and the second				
-50.0										- ~~				
-60.0														
Start 3	.438 GH	z								Stop	3.663 GHz			
	ango Tabl	•												
-+7-00 TX	ange tabl										T 4			
							Trace Tvp	i race e		Trace Avera	race 1 re (Active)			
	Spur	Range	Start Fred	Stop Fred	RBW		requency	- 	Amplitude	ما imit				
	1	1	3.4375 GHz	3.5500 GHz	1.000 MHz	3.53	8375000 GH	z	7.471 dBm	-18.53	dB			
	2	2	3.5500 GHz	3.5510 GHz	360.0 kHz	3.55	0105000 GH	z -	39.71 dBm	-26.71	dB			
	3	3	3.5510 GHz	3.5550 GHz	510.0 kHz	3.55	1086667 GH	z -:	39.51 dBm	-26.51	dB			
	4	4	3.5550 GHz	3.6625 GHz	1.000 MHz	3.55	5358333 GF	IZ -:	37.69 dBm	-24.69	dВ			
				_										
	5		? No 10	v 05, 2022 29:27 AM	$\supset \triangle$									

Plot 7-124. Upper ACP Plot (NR Band n77 - DoD Band – 90MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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Spectru Spuriou	m Analy s Emiss	/zer 1 sions	• +									Frequency	- * 絵
RL		Input: RF Coupling: Align: Au	DC Col to Fre	ut Z: 50 Ω r CCorr q Ref: Int (S) =: Off	Atten: 36 dB	Trig: I Gate: IF Ga	Free Run LO in: Low	Center Fre Radio Std:	q: 3.49002000 None	00 GHz	Center 3.490	Frequency 020000 GHz	Settings
3 All Rai	nge Gra	ph v	/								CF Ste 716.0	p 02000 MHz	
Scale/D	0iv 10.0	dB			Ref Value 30.	00 dBm						uto	
Log											M	an	
20.0											Frea C	offset	
						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					0 Hz		
_10.0													
-20.0													
-30.0													
-40.0				and the second	man Mary					a march the strategy			
-50.0	and a state of the state of the	****											
-60.0													
Stort 2	250 00								Et.	n 2 550 CH-			
Start 5.	300 GH	Z							510	p 3.000 GHZ			
4 All Rai	nge Tabl	e v											
						Me	asure Trac	æ		Trace 1			
						Tra	асе Туре		Trace Avera	age (Active)			
	Spur	Range	Start Freq	Stop Freq	RBW	Frequ	ency	Amplitude	∆Lim	nit			
	1	1	3.3500 GHz	3.4450 GHz	1.000 MHz	3.442466	667 GHz	-35.64 dBm	-22.6	4 dB			_
	3	2	3 4490 GHz	3 4500 GHz	360.0 kHz	3 449403	333 GHz	-29 05 dBm	-24.1	5 dB			
	4	4	3.4500 GHz	3.5500 GHz	1.000 MHz	3.499166	667 GHz	2.882 dBm	-23.1	2 dB			
	6			w 05 2022									
	)			):31:44 AM									

Plot 7-125. Lower ACP Plot (NR Band n77 - DoD Band – 80MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

Spectr Spurio	um Analı us Emiss	zer 1 ions	• +									\$	Frequency	<b>▼</b>
KEY: RL	SIGHT 	Input: RF Coupling: Align: Aut	DC Corr to Freq	t Z: 50 Ω CCorr Ref: Int (S)	Atten: 36 dB		rig: Free Gate: LO F Gain: Lo	Run ow	Center Freq: Radio Std: N	3.510000000 Ione	) GHz	Center I 3.5100	Frequency 00000 GHz	Settings
3 All R	ASS ange Gra	oh T		. Uli								CF Step 716.00	2000 MHz	
Scale/	Div 10.0	dB		F	Ref Value 30.	00 dBr	n						to	
Log												Ma	n	
20.0												Eron Of	fact	
10.0					June May								Isel	
0.00					1									
-10.0														
-20.0														
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-40.0						10.				and a second	non-monder			
-50.0														
-60.0														
Start 3	3.450 GH	z								Stop	o 3.650 GHz			
4 All R	ange Tabl	e ,												
							Measu	re Trace			Trace 1			
							Trace T	те пасе Туре		Trace Avera	ge (Active)			
	Spur	Range	Start Freq	Stop Freq	RBW	Fr	equency	/ A	mplitude	∆Limi	t			
	1	- 1	3.4500 GHz	3.5500 GHz	1.000 MHz	3.544	833333	GHz 8	3.259 dBm	-17.74	dB			
	2	2	3.5500 GHz	3.5510 GHz	360.0 kHz	3.550	001667	GHz -	38.48 dBm	-25.48	dB			
	3	3	3.5510 GHz	3.5550 GHz	510.0 kHz	3.551	553333	GHZ -	37.27 dBm	-24.27	dB			
	4	4	3.5550 GHZ	3.0000 GHZ		3.000	0310007	GHZ -	55.96 GDIII	-22.90	o d D			
				_										
	5		<b>?</b> No	x 05, 2022 33:35 AM	$\supset \bigtriangleup$									

Plot 7-126. Upper ACP Plot (NR Band n77 - DoD Band – 80MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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